



## 2020-21

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Forest Enhancement  
Society of British Columbia

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

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



*Habitat Conservation Trust Foundation 2020-21 Approved Project List*  
Available online at [www.hctf.ca](http://www.hctf.ca)

## Approved Projects Taking Place in Multiple Regions

Project #	Project Name	Project Description	Board Approved	Contact Information
0-229	BC's Family Fishing Weekend	BC's Family Fishing Weekend is an annual fishing license free weekend (non-tidal and tidal) on the Father's Day weekend occurring June 19th - 21st, 2020. The Family Fishing Society facilitates approximately 50 family fishing weekend events with industry partners, reaching over 10,000 participants annually. The events are designed to introduce youth and their families to fishing, increase environmental awareness, and appreciation of aquatic resources across BC.	\$15,000	Cam Aronetz Family Fishing Society of BC 604-617-7834 camaronetz@hotmail.com
0-247	Ducks Unlimited Canada BC Wetlands Conservation Partnership Program	This is a Province-wide wetlands conservation program to restore and enhance wetland habitat at 148 Mile Marshes, gather project-specific data to evaluate 10 Cariboo Region projects and 10 Kootenay Region projects, prepare biological and engineering designs for four projects to deliver in 2021-2022, and to manage over 180,000 ha of wetlands.	\$250,104	Sarah Nathan Ducks Unlimited Canada 604-592-5003 s_nathan@ducks.ca
0-280	2020 Provincial Peregrine Falcon Monitoring Surveys	This project will conduct and assess results from Peregrine Falcon eyrie occupancy surveys around Haida Gwaii, Vancouver/Gulf Islands, Lower Mainland, and interior sites, to maintain long-term monitoring, enable conservation of breeding habitat, and justify falconry harvest.	\$64,000	Sean Pendergast Ministry of Forests Lands and Natural Resources Development 250-751-3225 sean.pendergast@gov.bc.ca
0-398	NatureKids BC: Nature Club Project	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.	\$38,023	Rebecca Clapperton NatureKids BC 604-985-3059 executivedirector@naturekidsbc.ca
0-406	White Sturgeon Questionnaire / Recreational Fishery Monitoring	This project will continue to monitor guided and non-guided recreational catch and effort of white sturgeon in the lower Fraser River. The project involves the distribution and assessment of annual electronic fishery questionnaires to licensed sturgeon anglers as well as analysis of guided angler catch and effort reporting data. Data are combined to give estimates of total white sturgeon catch and effort and angler demographics for the lower Fraser as well as track white sturgeon conservation surcharge statistics. Results are used by fishery managers to monitor catch and effort trends in fishery as well as inform management decisions on potential regulation and management changes.	\$15,400	Colin Schwindt Ministry of Forests, Lands, Natural Resource Operations and Rural Development 778-572-2180 colin.schwindt@gov.bc.ca
0-451	Conservation Land Operations and Management	This program provides funding for conservation lands owned by the Nature Trust of BC or the Ministry of Forest, Lands and Natural Resource Operations and Rural Development through an application submitted together from both organizations. Funding provided by HCTF will assist with the operation and management of approximately 115 significant wildlife habitat areas across British Columbia.	\$552,200	Karen Wipond Ministry of Forests, Lands, Natural Resource Operations and Rural Development 250-356-7669 Karen.Wipond@gov.bc.ca
0-466	BC Wild Sheep Conservation and Movement Control Program	This multi-stakeholder program is using innovative techniques and a formal strategic advisory group of NGOs and government staff to develop provincial policy and the science needed to support it, to solve the problem of pathogen spillover from domestic livestock on private land causing disease outbreaks in free ranging wildlife.	\$54,375	Jeremy Ayotte Phyla Biological Consulting Inc. 250-804-3513 jeremy.ayotte@gmail.com
0-467	Grizzly Bear Coexistence Solutions	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 behavior 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	Gillian Sanders Sanders Environmental Services 250-366-4232 grizzlybearsolutions@gmail.com

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0-476	Got Bats? B.C. Community Outreach, Conservation and Citizen Science Project	"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).	\$79,492	Katie Calon British Columbia Conservation Foundation 604-576-1433 kcalon@bccf.com
0-511	Monitoring and Protecting BC's bat diversity prior to White-Nose Syndrome	White-nose Syndrome is spreading in the west. We are urgently working with cavers, biologists and citizen scientists to identify and monitor important bat habitats, to establish baseline species diversity and relative abundance prior to the arrival of the disease. Such critical pre-WNS data will enable surveillance, mitigation, and recovery.	\$57,131	Cori Lausen WCS Wildlife Conservation Society Canada 250-353-8204 clausen@wcs.org
0-519	Provincial White Sturgeon Management Working Group Support	This project will obtain support for the coordination and development of a management working group for White Sturgeon in BC.	\$8,900	Greg Andrusak Ministry of Forests, Lands, Natural Resource Operations and Rural Development 778-698-9237 greg.andrusak@gov.bc.ca
0-526	Rattlesnake populations: Response to land management regimes and historical changes.	This project revisits the ecology of populations of Western Rattlesnakes (a species-at-risk) originally studied over 30 years ago. The main questions being addressed are (i) how have snake populations changed over 30+ years, and (ii) how do different management regimes affect these changes? This project will provide important new data for assessing how landscape use and attributes affect these animals.	\$11,500	Karl W. Larsen Thompson Rivers University 250.828.5456 klarsen@tru.ca
0-536	Field Implementation Trials of a Probiotic Prophylaxis for White-Nose Syndrome	This project is field testing a probiotic consisting of bacteria that inhibit/slow the fungus that causes white-nose syndrome (WNS) in bats. Sourced from bats in British Columbia, and applied at summer maternity roosts, this prophylaxis is poised to protect building-roosting bats from WNS-caused mortality.	\$55,127	Cori Lausen WCS Wildlife Conservation Society Canada 250-353-8204 clausen@wcs.org
0-539	Increasing Fisher Habitat Stewardship in the Forest Sector	This project strives to increase the ability of the forest sector to improve habitat outcomes for fishers in their operations by improving habitat guidance and inspiring them to use it in their forest management decisions.	\$38,195	Rich Weir Ministry of Environment and Climate Change Strategy 778-698-4390 Rich.Weir@gov.bc.ca
0-541	Determining factors affecting moose population change: assessing calving and survival rates	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	Shelley Marshall Ministry of Forests, Lands, Natural Resource Operations and Rural Development 250-614-7458 shelley.marshall@gov.bc.ca
0-545	Quality Waters Strategy - West Coast	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	Mike McCulloch Ministry of Forests, Lands, Natural Resource Operations and Rural Development 250-751-3156 mike.mcculloch@gov.bc.ca
0-546	Invasive Mussel Lake Monitoring in the Columbia Shuswap Regional District *	This project will undertake plankton tow sampling in lakes in the Columbia Shuswap region to monitor for the presence of invasive mussels.	Pending	Sue Davies Columbia Shuswap Invasive Species Society 855-785-9333 sdavies@columbiashuswapinvasives.org

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0-547	Upper Fraser Invasive Mussel Monitoring *	This project will monitor lakes in the central interior for invasive mussels through veliger sampling.	Pending	Gord Sterritt Upper Fraser Fisheries Conservation Alliance 250-305-5224 Gord.sterritt@upperfraser.ca
0-563	Evaluation of an improved instream flow assessment methodology.	This project will comprehensively evaluate a novel fish habitat assessment technique that would improve of the ways in which the needs of aquatic ecosystems are quantified when making water allocation decisions. This project will also develop free, user-friendly software to make this assessment technique more accessible.	\$39,583	Stefan Grondahl Polar Geoscience Ltd. 604-815-4548 stefan@pgeo.ca
0-564	Thinhorn Sheep Management Plan for British Columbia	This project intends to prepare and finalize a Management Plan for Thinhorn sheep in British Columbia for engagement and consultation.	\$41,000	Bill Jex Ministry of Forests, Lands, Natural Resource Operations and Rural Development 250-847-7804 bill.jex@gov.bc.ca
0-567	Cougar predation and harvest in a changing landscape	Cougars are one of the most important predators of BC's big game species, yet we know little about their abundance, habitat needs, and response to cougar harvest. Using GPS collars, this project will quantify predation rates by cougars and link habitat supply to the sustainable harvest of cougars.	\$98,195	Adam Ford University of British Columbia 250-807-9773 adam.ford@ubc.ca
0-573	Yellow Flag Iris – Enabling Stewardship and Habitat Conservation through Technology Transfer	The project will train land managers in the proper techniques to control the aquatic invader yellow flag iris through measurable actions such as number of site treated, total area treated, staff/volunteers trained, work/volunteer events held, areas mapped & future treatment proposed.	\$25,000	Catherine Tarasoff Agrowest Consulting Scientists 250-572-2132 agrowest.bc@gmail.com
0-574	Spatiotemporal effects of fire on moose habitat in British Columbia	The project goal is to understand the influence of wildfire and wildfire rehabilitation on moose forage dynamics and habitat selection strategies over time in fire affected landscapes of interior British Columbia.	\$5,000	Alana Clason The Bulkley Valley Centre For Natural Resources Research And Management 250-847-2827 alana.clason@bvcentre.ca
0-575	Developing a trail stewardship program for British Columbia	This project will develop a set of stewardship guidelines (do's and don'ts of recreation) to help outdoor recreationists understand how they can contribute towards the conservation and stewardship of BC's ecosystems while enjoying their outdoor activities. This seed funding will help facilitate the design of an environmental community-based stewardship program based on education, outreach and tangible action for the outdoor recreation community (individuals and groups) for future applications.	\$5,000	Louise Pedersen Outdoor Recreation Council of British Columbia 604-873-5546 louisepedersen@orc.bc.ca

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## Approved Projects on Vancouver Island

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1-72	O&M - (FSH) - Vancouver Island	Operation and 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	Scott Silvestri Ministry of Forests, Lands, Natural Resource Operations and Rural Development 250-751-3128 Scott.Silvestri@gov.bc.ca
1-319	Keogh River Steelhead Population Dynamics	The Keogh River Research Facility has been in operation since 1976 to annually enumerate salmonid smolt output and winter run steelhead adult returns. This project will 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.	\$141,855	Trevor Davies Ministry of Forests, Lands, Natural Resource Operations and Rural Development 778-698-9218 Trevor.Davies@gov.bc.ca
1-538	Bring Back the Bluebirds: Georgia Depression Western Bluebird Reintroduction Project	By supporting the recovery of reintroduced Western Bluebirds (WEBL), 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.	\$20,182	Jacque Taylor British Columbia Conservation Foundation 250-889-1892 cowichanbluebird@gmail.com
1-589	Estimating Cougar (Puma concolor vancouverensis) Populations on Northern Vancouver Island using DNA mark-recapture techniques	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	Jerry MacDermott Ministry of Forests, Lands, Natural Resource Operations and Rural Development 250-751-3229 Jerry.Macdermott@gov.bc.ca
1-599	West Coast Roosevelt Elk Augmentation and Recovery Project	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, industry and First Nations governments, for translocations are key to facilitate recovery of this blue-listed species on Vancouver Island and are proven as instrumental on the mainland coast. Relocated herds will help improve ecosystem function and provide future opportunities for sustenance and recreational uses in new population units.	\$25,000	Billy Wilton Ministry of Forests, Lands, Natural Resource Operations and Rural Development 250-751-3213 William.Wilton@gov.bc.ca
1-644	Vancouver Island Small Lake Enrichment - Program Expansion (Year 5 of 5)	Using established lake fertilization techniques with proven performance, this program aims to enrich up to six 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.	\$37,841	Jeremy Damborg British Columbia Conservation Foundation 250-390-2525 jdamborg@bccf.com
1-647	Martha's Place (Year 1 of 3)	This Land Stewardship Grant will support invasive species management and a baseline inventory. Funding amount is for three-year term.	\$12,648 over three years	Paul Chapman Nanaimo Area Land Trust 250-714-1990 admin@nalt.bc.ca

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1-651	Matson Conservation Area (Year 1 of 3)	This Land Stewardship Grant will support operations and management on this important conservation land. Funding amount is for three-year term.	\$33,000 over three years	Wendy Tyrrell Habitat Acquisition Trust 250-995-2428 wendy@hat.bc.ca
1-665	Cowichan River Steelhead Population Dynamics	This project aims to take advantage of a major investment in modern tag detection equipment recently installed in the lower Cowichan River in 2016. A dual, full stream, PIT tag detection array allows for the study of salmonid freshwater and marine survival rates and behaviors such as migration timing. The tagging of juvenile and adult steelhead ( <i>Oncorhynchus mykiss</i> ) will provide the necessary data to inform ongoing watershed management actions.	\$30,613	Jeremy Damborg British Columbia Conservation Foundation 250-390-2525 jdamborg@bccf.com
1-668	Evaluating furbearer populations on southern Vancouver Island	This collaborative project is using non-invasive survey techniques to evaluate the distribution and abundance of Pacific martens, American minks, and Vancouver Island ermines on southern Vancouver Island to help trappers and land managers maintain sustainable populations of these species.	\$42,546	Rich Weir Ministry of Environment and Climate Change Strategy 778-698-4390 Rich.Weir@gov.bc.ca
1-673	Little Qualicum River Estuary - Mill Pond Restoration Project	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. This year the project will see the continuation of the re-vegetation program, invasive species removal, and monitoring.	\$19,317	Jamieson Atkinson British Columbia Conservation Foundation 250-390-2525 jatkinson@bccf.com
1-675	Seasonal habitat supply for the management and restoration of Roosevelt Elk	This project will use GPS collars on Roosevelt elk to build models of seasonal habitat selection in the West Coast Region. Outputs will be used to validate expert-based winter habitat suitability indices, assess the effectiveness of Ungulate Winter Ranges, and inform the linkage between habitat supply and population management objectives.	\$103,700	Carl Morrison Ministry of Forests Lands and Natural Resource Operations 250-286-9440 carl.d.morrison@gov.bc.ca
1-684	Ecocultural Restoration of Vancouver Island Estuaries	This project will transform how we approach the restoration of estuaries as GoMIES works with First Nations and BCIT/SFU Restoration Biologists to facilitate estuary marsh recovery of degraded Lyngbye sedge marsh habitat using modified Indigenous fish weir techniques to stop Canada Goose herbivory.	\$44,255	Tim Clermont Guardians of Mid Island Estuaries Society 250-317-2987 timclermont@shaw.ca
1-693	Reestablishing Vancouver Island Marmots in Strathcona Provincial Park	The Marmot Recovery Foundation will build on and extend efforts to reintroduce Vancouver Island Marmots to Strathcona Provincial Park, in order to create a self-sustaining population of the endemic mammals. This project will focus on translocations, food enhancement, monitoring and potentially habitat restoration as guided by BC Parks.	\$49,450	Adam Taylor Marmot Recovery Foundation 250 390-0006 adam@marmots.org
1-694	Gold River - Steelhead Stock Decline Investigations	This project will evaluate the current abundance of wild summer and winter-run steelhead during all life-stages in the Gold River. Subject to project outcomes and funding in future years to support additional work, an action plan may be developed with management recommendations for activities to assist this dwindling wild stock. Gold River historically supported one of the most productive winter-run steelhead sport fisheries on the Pacific Coast.	\$20,515	Jeremy Damborg British Columbia Conservation Foundation 250-390-2525 jdamborg@bccf.com
1-700	Promoting Wildlife Habitat Protection and Enhancement on Salt Spring Island, BC	Salt Spring Island Conservancy 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 in 3 SSIC nature reserves; and expanding SSIC's native plant nursery to supply our restoration and education initiatives.	\$45,638	Penelope (Penny) Barnes Salt Spring Island Conservancy 250-538-0318 penny@saltspringconservancy.ca

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1-705	Wildwood Creek Wetland Stewardship Project	This third year of a three-year community-based stewardship project will continue HAT's Good Neighbours Program in the Wildwood Creek watershed while expanding the scope of the project to develop new outreach initiatives and increase community understanding, participation and regional leadership in conservation allowing for HAT to increase connectivity between regionally protected lands through creation and empowerment of a network of citizen-stewards.	\$31,700	Paige Erickson Habitat Acquisition Trust 250-995-2428 paige@hat.bc.ca
1-711	Salmonid Habitat-Flow Assessment for the Lower Koksilah River	This project will examine how salmonid habitats in the Lower Koksilah River are affected by low summer flows in order to understand the potential implications of summer water withdrawals on fisheries resources in the river.	\$21,600	Jaroslav Szczot Ministry of Forests Lands Natural Resource Operations and Rural Development 250-616-3620 Jaroslav.Szczot@gov.bc.ca
1-713	Investigating the Impacts of Ultraviolet Filters on the Cowichan River Ecosystem	This multi-year project will investigate UV filter (sunscreen) contamination of the Cowichan River and its potential impacts on aquatic organisms. This project aims to characterize the spatiotemporal variation of UV filter contamination in the Cowichan River, support development of a procedure to analyze UV filter contamination in water and provide a scientific baseline against which to study contamination mitigation efforts. In addition, this project will lead an education and outreach program to mitigate UV filter inputs, conduct ongoing monitoring to assess mitigation efforts, and engage relevant stakeholders and decision-makers to apply contamination mitigation strategies throughout the watershed.	\$24,374	Jamieson Atkinson British Columbia Conservation Foundation 1-250-390-2525 ext. 222 jatkinson@bccf.com
1-717	Restoring wildlife passage under roads where rip rap impedes animal movement	This project will enhance passage for amphibians under an existing bridge on Highway 4 where rip rap has been used for erosion control. The rip rap and steep slopes limit access under the bridge by amphibians. Our goal is to construct pathways while retaining the structural integrity of the bridge as per engineering requirements. This site will provide a case study to promote improvements of other existing wildlife crossing structures in B.C.	\$12,012	Barbara Beasley Association of Wetland Stewards for Clayoquot and Barkley Sounds 250-726-2536 wetlandstewards@gmail.com
1-721	Ecosystem restoration for Taylor's Checkerspot Butterfly and other species at risk in the Garry Oak and associated ecosystems on Hornby and Denman Islands	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, birds and plant species at risk within the endangered Garry Oak and associated ecosystems of southeastern British Columbia.	\$50,000	Jennifer Heron Ministry of Environment and Climate Change Strategy 604-828-2542 Jennifer.Heron@gov.bc.ca
1-722	Tranquil Creek Salmonid Recovery Project	The Tranquil Creek Salmonid Recovery Project is a community driven initiative to recover declining salmonids stocks by restoring critical spawning and rearing habitat. The project has been made possible by a long-term, broad partnership between First Nations, NGO's, DFO and local stakeholder groups.	\$75,000	Jessica Hutchinson Central Westcoast Forest Society 250-726-2424 jessica@clayoquot.org
1-727	Traditional and Environmental DNA (eDNA) Surveys for Sharp-tailed Snake	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 environmental DNA (eDNA) sampling as a novel survey tool. New occurrences of Sharp-tailed Snakes will be used to refine Critical Habitat designation and guide on-the-ground management activities.	\$34,513	Carrina Maslovat Woodland Native Plant Nursery 250-537-1573 maslovat@telus.net
1-728	Fishing and Natural Mortality of Cutthroat Trout in Cowichan Lake	This multi-year study will use acoustic telemetry and high reward tags to estimate fishing and natural mortality of wild cutthroat trout in one of Vancouver Islands most popular freshwater 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.	\$98,033	Erin Rechisky Kintama Research Services Ltd. 250-667-6951 erin.rechisky@kintama.com

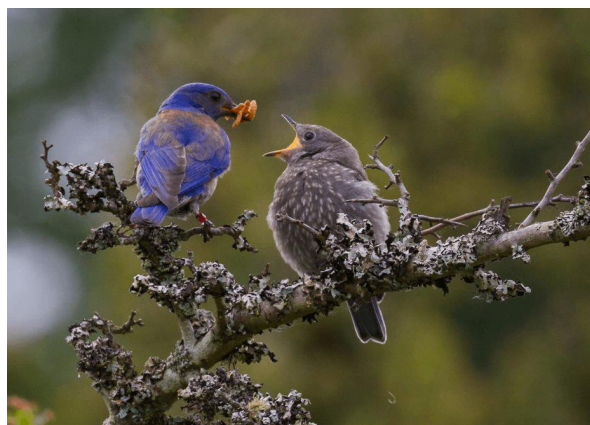
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1-730	Tsolum River Gravel bar Live Staking and Riparian Restoration Project.	This project will re-vegetate up to 2.2ha of gravel bars in the mid-section of the Tsolum River by using willow cutting live staking methods and will also diversify the riparian 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.	\$14,445	Caroline Heim Tsolum River Restoration Society 250-897-4670 trrs.educationoutreach@gmail.com
1-733	Central Denman Conservation Complex (Year 1 of 3)	This Land Stewardship Grant will support operations and management on this important conservation land. Funding amount is for three-year term.	\$33,243 for three years	Erika Bland Denman Conservancy Association 250-702-7773 dcalandmanager@gmail.com
1-734	Millard Learning Centre (Year 1 of 3)	This Land Stewardship Grant will support operations and management activities on this important conservation land. Funding amount is for three-year term.	\$43,780 for three years	Adam Huggins Galiano Conservancy Association 250-539-2424 restoration@galianoconservancy.bc.ca
1-736	Amphibians, Small Wetland Habitats, and Forest Harvesting on Vancouver Island	Small wetlands are important for wildlife and as carbon sinks. Timber harvesting affects large numbers of small wetland habitats annually. Pre- and post-harvest data were collected on 70+ small wetland habitats over 10 years ago and will be compared to current conditions to continue a long-term study of the effects of tree removal and green-up on hydroperiod and amphibian breeding.	\$27,863	Elke Wind E. Wind Consulting 250-716-1119 ewind@telus.net
1-738	Marbled Murrelet population monitoring on southwest Vancouver Island	Marbled Murrelet population monitoring on South-west Vancouver Island will investigate the influence of habitat loss on population trends from 1996-2019, and baseline population trend and status estimates to support effectiveness monitoring of habitat management under the MAMU Implementation Plan.	\$78,400	Jenna Cragg Ministry of Forests Lands Natural Resource Operations and Rural Development 250-751-3214 jenna.cragg@gov.bc.ca
1-751	Marbled Murrelet Reserve Planning on Western Forest Product's tenures	In 2018, BC announced its' Marbled Murrelet Implementation Plan. Suitable habitat targets for each planning unit have been drafted. This project will map and submit to FLNRORD proposed Wildlife Habitat Areas (WHAs) and Old Growth Management Areas (OGMAs), consistent with the suitable habitat targets, for Western's tenures.	\$49,800	John Deal Western Forest Products Inc. 250-286-4190 jdeal@westernforest.com
1-752	Mayne Island Community Stewardship Program	The Mayne Island Community Stewardship Program will engage residents and visitors of Mayne Island in hands-on nature stewardship. Community members will contribute to habitat restoration projects while developing the knowledge and skills they need to steward endangered ecosystems in a fragmented, privately owned landscape.	\$25,674	Rob Underhill Mayne Island Conservancy Society 250-539-5168 biologist@mayneconservancy.ca



1-538 Bring Back the Bluebirds: Georgia Depression Western Bluebird Reintroduction Project

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## Approved Projects in Lower Mainland Region

Project #	Project Name	Project Description	Board Approved	Contact Information
2-349	Establishing Agricultural Waterfowl and Raptor Habitat on the Lower Fraser	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 Cities of Delta and 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	Drew Bondar Delta Farmland and Wildlife Trust 604-940-3392 drew@deltafarmland.ca
2-375	Lower Fraser River White Sturgeon Monitoring and Assessment Program 2020-21	This stewardship-led, award-winning project has received the highest ranking as a recovery action for this threatened population of White Sturgeon. Annual deliverables, including abundance estimates, forecasts, and growth rates, are used by provincial and federal recovery teams to conserve, manage, and recover the population.	\$75,000	Sarah Schreier Fraser River Sturgeon Conservation Society 604-664-7664 ext 107 sarah@frasersturgeon.com
2-390	Learn to Fish Program (L2F)	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 30,000 participants including both youth and adults annually.	\$80,000	Mike Gass Freshwater Fisheries Society of BC 604-302-6235 Mike.Gass@gofishbc.com
2-455	Lower and Middle Fraser White Sturgeon Recovery Working Group Support	This project provides supporting resources for the coordination and management of the Lower and Middle Fraser River Sturgeon Technical and Community Recovery Working Groups.	\$7,778	Colin Schwindt Ministry of Forests, Lands, Natural Resource Operations and Rural Development 778-572-2180 colin.schwindt@gov.bc.ca
2-464	South Coast Grizzly Bear Ecology and Cumulative Effects Research	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.	\$36,000	Clayton Apps Aspen Wildlife Research Inc. 403-270-8663 clayton.apps@telus.net
2-530	Lower Fraser White Sturgeon Telemetry Study: Long-term monitoring of adult sturgeon movement activities between and within critical overwintering and spawning habitats	This long-term (10 yr.) study is monitoring the movements, migrations and habitat use of acoustically tagged adult white sturgeon within the Lower Fraser, Pitt and Harrison River systems. Individually tagged fish are tracked using an extensive array of permanent and seasonal receivers strategically placed within the river systems to assess movement behavior during critical life-history events (i.e., over-wintering, feeding and spawn migrations) as well as behavioral response to capture in the recreational catch and release fishery. Results from this Project are used to support habitat protection measures within the Lower Fraser River system as well as map and monitor critical habitats and behaviors.	\$28,980	Colin Schwindt Ministry of Forests, Lands, Natural Resource Operations and Rural Development 778-572-2180 colin.schwindt@gov.bc.ca
2-619	Sustaining mesocarnivore populations and habitat in the Lower Mainland watersheds	This project will use non-invasive survey techniques to evaluate the distribution, habitat use, and human-caused threats of mesocarnivore populations in the Lower Mainland of British Columbia. This information is necessary to help trappers and land managers maintain sustainable populations in the Lower Mainland.	\$37,800	Rich Weir Ministry of Forests, Lands, Natural Resource Operations and Rural Development 778-698-4390 Rich.Weir@gov.bc.ca

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2-635	Restoring and reconnecting floodplain forest in the Heart of the Fraser	This project will restore a former hay field dominated by invasive reed canarygrass into a functional floodplain forest in the Bert Brink Wildlife Management Area within the Heart of the Fraser River. This restoration project will benefit many of the 117 wildlife species that use this Provincial Conservation Land.	\$29,593	Eric Balke Ducks Unlimited Canada 778-572-2266 Eric.Balke@gov.bc.ca
2-639	Chilliwack River Adult Winter Steelhead Stock Assessment	The multiyear project 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. The potential outcome will better inform decision-makers for the province's most intensive steelhead fishery.	\$18,000	Mike Willcox Ministry of Forests, Lands, Natural Resource Operations and Rural Development 604.586.4400 Michael.Willcox@gov.bc.ca
2-640	Mountain Goat Seasonal Movements and Habitat Use in the Mount Meager Complex, South Coast	This multiyear project will radio collar (GPS) a total of 35-45 mountain goats in the Mount Meager Complex to determine if these goats make large seasonal movements to and from winter ranges, quantify habitat use in winter and summer in relation to the burned habitats, and evaluate survivorship. The results will inform how to better manage the population.	\$24,300	Cliff Nietvelt Ministry of Forests, Lands, Natural Resource Operations and Rural Development 604-798-3366 Cliff.Nietvelt@gov.bc.ca
2-641	Goshawk diet and foraging requirements across habitat types in South Coastal BC	This project will determine Northern Goshawk breeding success, diet and spatial foraging habitat requirements in relation to landscape condition of coastal and transitional forests in South Coastal BC. Research addressing prey requirements and improving the understanding of spatial foraging habitat areas relative to landscape condition will provide the information needed to support the provincial Implementation Plan and ongoing provincial decisions and direction during implementation to ensure species recovery while mitigating resource use conflicts.	\$90,000	Melanie Wilson Ministry of Forests, Lands, Natural Resource Operations and Rural Development 778-572-2271 Melanie.L.Wilson@gov.bc.ca
2-642	The Metamorphosis of the Ryder Lake Amphibian Protection Project	The goal of this project is to improve the success of the amphibian migrations at Ryder Lake. This year, the project will finalize the design and install the semi-permanent fencing to the amphibian crossing structure, assess the effectiveness of this fencing as part of our annual monitoring of the toad migration to and from the wetland, and continue our landowner outreach (Frog Finder) program to map important multi-species amphibian wetlands at Ryder Lake and other key locations in the Fraser Valley.	\$13,112	Joanne Neilson Fraser Valley Conservancy of BC 604-625-0066 joanne@fraservalleyconservancy.ca
2-643	Roosevelt Elk Inventory - South Coast	This project will conduct an inventory of Roosevelt Elk ( <i>Cervus elaphus roosevelti</i> ) 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.	\$39,900	Darryl Reynolds Ministry of Forests, Lands, Natural Resource Operations and Rural Development 604-885-7419 darryl.reynolds@gov.bc.ca
2-644	Invasive Mussel Lake Monitoring in the Sea to Sky Region *	This project will undertake plankton tow sampling in lakes in the Sea to Sky region to monitor for the presence of invasive mussels.	\$11,023	Clare Greenberg Sea to Sky Invasive Species Council 604-698-8334 ssinvasives@gmail.com
2-645	Fraser Valley and Metro Vancouver Invasive Mussels Lake Monitoring Program *	This project will monitor lakes in the Metro Vancouver region for invasive mussels through veliger sampling and substrate monitoring. Lakes proposed to be monitored include Cultus, Harrison, Pitt, Burnaby and Buntzen.	\$14,553	Kathy Ma Fraser Valley Invasive Species Society 778-548-3847 info@fviss.ca
2-660	Chilliwack Lake Bull Trout Fishery Assessment	The project proposes an assessment of sustainable fishing opportunities for Bull Trout on Chilliwack Lake. Like other large lake tag-return studies, the project has direct implications for conservation and management of Bull Trout. The goal of the proposed work is to improve angling quality and provide opportunity in recreational fisheries on large lakes in BC.	\$47,804	Greg Andrusak Ministry of Forests, Lands, Natural Resource Operations and Rural Development 778-698-9237 greg.andrusak@gov.bc.ca

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2-661	Upper Pitt River Bull Trout Risk Assessment	The upper Pitt River provides a unique angling opportunity on a large river and lake just north of Vancouver. The project intends to develop a better understanding of the Bull trout distribution, identify potential spawning tributaries for developing an index via reconnaissance and if successful, develop more prescriptive stock assessment measures to assess angler use and exploitation. In addition, the goal of the work is to better understand the conservation and management of Bull Trout in the in Pitt River system and risks associated with their contribution to a larger year-round fishery on the Fraser and Pitt rivers.	Pending	Greg Andrusak Ministry of Forests, Lands, Natural Resource Operations and Rural Development 778-698-9237 greg.andrusak@gov.bc.ca
2-666	LGL-Matsqui-Yale Selective Fishing Initiative Using Three Fishwheels	This project will work with the Matsqui First Nation and Yale First Nation 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.	\$84,900	Karl English LGL Limited 250-656-0127 kenglish@lgl.com
2-668	Native Plant Landscaping to Increase Native Bird Populations in Vancouver	The project will engage 2500 youth in hands-on multi-week programs and school workshops to grow 10,000 bird-supporting native plants and create a birdscape garden in Vancouver's Downtown Eastside, while acquiring stewardship skills and nature connection. 50 organizations will receive youth-grown native plants to create additional bird habitat.	\$21,501	Emily Keller EYA Environmental Youth Alliance Society 604-689-4446 emily@eya.ca
2-669	Chilliwack River Guardian Program	The Chilliwack River Guardians will collect basic recreational fishery data through onsite roving-access angler counts/surveys to better inform steelhead fishery management decision-makers. In addition, the Guardians will provide angler education/outreach to potentially improve compliance and angler satisfaction.	\$17,933	Mike Willcox Ministry of Forests, Lands, Natural Resource Operations and Rural Development 604-586-4400 michael.willcox@gov.bc.ca
2-673	Conservation - Rodgers (Year 1 of 3)	This Land Stewardship Grant will support operations and management activities on this important conservation land. Funding amount is for three-year term.	\$7,779 for three years	Liz Webster Savary Island Land Trust 604-483-4743 silts@telus.net
2-674	Conservation - Savary Island Road (Year 1 of 3)	This Land Stewardship Grant will support operations and management activities on this important conservation land. Funding amount is for three-year term.	\$7,953 for three years	Liz Webster Savary Island Land Trust 604-483-4743 silts@telus.net
2-675	Conservation - Vancouver Boulevard (Year 1 of 3)	This Land Stewardship Grant will support operations and management activities on this important conservation land. Funding amount is for three-year term.	\$7,952 for three years	Liz Webster Savary Island Land Trust 604-483-4743 silts@telus.net
2-676	Frenchies Island (Year 1 of 3)	This Land Stewardship Grant will support operations and management activities on this important conservation land. Funding amount is for three-year term.	\$9,900 for three years	Sarah Nathan Ducks Unlimited Canada 778-888-1706 <a href="mailto:s_nathan@ducks.ca">s_nathan@ducks.ca</a>
2-682	Capricorn Creek Landslide Restoration	Lilwat Nation proposes to implement a restoration project targeting the Capricorn Creek Landslide. The landslide occurred in 2010 and was the largest landslide recorded in Canada. The project will implement trials that will be used to inform the long-term restoration plan.	\$5,000	Troy Bikadi Lilwat Nation 604-894-6115 <a href="mailto:Troy.Bikadi@lilwat.ca">Troy.Bikadi@lilwat.ca</a>
2-687	Earthwise Agassiz Habitat Stewardship Initiative	The Earthwise Agassiz Habitat Stewardship Initiative is a comprehensive community engagement project that commits individuals and groups to take action to protect habitat. The project takes place on a 58 acres site in BC's eastern Fraser Valley that encompasses restored wetlands, riparian habitats, and pollinator meadows within the context of a small-scale working farm. The project increases awareness of habitat and freshwater conservation and involves individuals in citizen science and stewardship activities.	\$27,000	Patricia Fleming DRS Earthwise Society 604-946-9828 <a href="mailto:pfleming@earthwisesociety.bc.ca">pfleming@earthwisesociety.bc.ca</a>

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2-692	Juvenile White Sturgeon Monitoring Program	This project will capture and sample juvenile White Sturgeon in the lower Fraser river and tributaries from Delta to Yale, BC, to better understand juvenile sturgeon recruitment, abundance and distribution.	\$55,530	Marc Laynes Fraser Valley Angling Guides Association 604-793-2244 <a href="mailto:fraservalleyanglingguides@gmail.com">fraservalleyanglingguides@gmail.com</a>
2-695	Re-design and Modernization of the Provincial Angling Guide Catch and Effort Reporting Platform	This project intends to re-design and modernize the current angling guide catch and effort reporting system, beginning with a pilot phase in Region 2, with eventual Province wide implementation in subsequent years. The project would include re-purposing an existing catch and effort reporting platform (Elog) developed by M.C Wright and Associates for DFO. The platform will include both desktop and mobile versions for both classified and non-classified waters allowing anglers to better log, visualize and report data in real-time, reducing workloads and errors, and significantly increasing data quality. Results of the improved system would allow resource managers to better track changes in high use fisheries and provide valuable information to decision makers regarding impacts of potential regulator changes such as time-area closures.	\$31,600	Colin Schwindt Ministry of Forests, Lands, Natural Resource Operations and Rural Development 778-572-2180 <a href="mailto:colin.schwindt@gov.bc.ca">colin.schwindt@gov.bc.ca</a>
2-696	Renewal and Retention of Nature Stewards in the Fraser Valley	Created in 2006, the Nature Stewards program engages private landowners in the Fraser Valley to improve habitat for wildlife. This new initiative will support previously recruited landowners to ensure their stewardship actions are successful. A renewal process will help the landowners focus their efforts on effective stewardship activities. New incentives will be introduced to encourage long-term participation.	\$35,442	Joanne Neilson Fraser Valley Conservancy 604-625-0066 <a href="mailto:joanne@fraservalleyconservancy.ca">joanne@fraservalleyconservancy.ca</a>
2-699	Rapid Response Bullfrog Control and Research in Sensitive Wetlands	This project will protect the biodiversity of isolated sensitive wetlands in Chilliwack, by undertaking rapid response American bullfrog eradication. The Ryder Lake area is outside the current bullfrog infestation range, making it a suitable candidate for this approach. The findings and subsequent research from this project will inform management and mitigation strategies for this and other similar bullfrog control sites.	Pending	Joanne Neilson Fraser Valley Conservancy 604-625-0066 <a href="mailto:joanne@fraservalleyconservancy.ca">joanne@fraservalleyconservancy.ca</a>
2-700	Squamish Watershed Bull Trout Population Abundance Project	This project will use seed funding to perform power analyses (using existing data from the watershed) to inform a robust method of abundance estimation. This will inform the development of a multi-year proposal to estimate Bull Trout abundance in the Squamish River watershed.	\$5,000	Annika Putt InStream Fisheries Research Inc. 604-428-8819 <a href="mailto:annika@instream.net">annika@instream.net</a>



2-464 South Coast Grizzly Bear Ecology and Cumulative Effects Research

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## Approved projects in the Thompson-Nicola Region

Project #	Project Name	Project Description	Board Approved	Contact Information
3-60	O&M – (FSH) – Headquarters	This project will maintain the Kane Valley Ranch for fisheries research, including maintaining property, repairing fences, paying the Hydro for aeration system, and maintaining caretakers house (plumbing, wiring, mechanical).	\$3,500	Brett Van Poorten Ministry of Environment and Climate Change Strategy 604-222-6761 <a href="mailto:Brett.VanPoorten@gov.bc.ca">Brett.VanPoorten@gov.bc.ca</a>
3-94	O&M – (FSH) – Thompson-Nicola	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.	\$68,500	Andrew Klassen Ministry of Forests, Lands, Natural Resource Operations and Rural Development 250-371-6237 <a href="mailto:Jeremy.klassen@gov.bc.ca">Jeremy.klassen@gov.bc.ca</a>
3-154	O&M – (FSH) – Bonaparte	Operation and maintenance of the Bonaparte Fishway and the Bonaparte Lake Dam.	\$27,500	Robert G. Bison Ministry of Forests, Lands, Natural Resource Operations and Rural Development 250-371-6244 <a href="mailto:Robert.Bison@gov.bc.ca">Robert.Bison@gov.bc.ca</a>
3-251	Interior Fraser Wild Steelhead Conservation	This project will continue monitoring the 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, federal, and First Nation fisheries management planning, processes and decisions for conservation and responsible use.	Pending	Robert G. Bison Ministry of Forests, Lands, Natural Resource Operations and Rural Development 250-371-6244 <a href="mailto:Robert.Bison@gov.bc.ca">Robert.Bison@gov.bc.ca</a>
3-272	Wetlands Institute 2020: Kamloops	The Wetlands Institute workshop provides training to individuals involved in wetland stewardship projects in BC. The 2020 Institute in the Kamloops area 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.	\$50,000	Neil Fletcher British Columbia Wildlife Federation 604-882-9988 ext. 232 <a href="mailto:neil.fletcher@bcwf.bc.ca">neil.fletcher@bcwf.bc.ca</a>
3-402	Fraser River Region 3 White Sturgeon Population Monitoring	This project will provide field support for monitoring White Sturgeon in Region 3 and monitor for Nechako Hatchery sturgeon and will maximize quality and maintain security of the resulting data. This project will inform Provincial biologists with what they need to manage sturgeon in Region 3.	Pending	Sarah Schreier Fraser River Sturgeon Conservation Society 604-664-7664 ext. 107 <a href="mailto:sarah@frasersturgeon.com">sarah@frasersturgeon.com</a>
3-405	Middle Fraser Sturgeon Guardian Program	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.	Pending	Andy Morris Ministry of Forests, Lands, Natural Resource Operations and Rural Development 250 371-6325 <a href="mailto:Andy.Morris@gov.bc.ca">Andy.Morris@gov.bc.ca</a>
3-406	Lillooet Region Aquatic Sampling *	This project will monitor lakes in the Lillooet area for invasive mussels through veliger sampling.	\$4,570	Jacque Rasmussen Lillooet Regional Invasive Species Society 250-256-4292 <a href="mailto:Irinvasives@gmail.com">Irinvasives@gmail.com</a>
3-412	Williamson's Sapsucker Habitat Enhancement, Merritt Area.	This project intends to enhance Endangered Williamson's Sapsucker habitat by first identifying potential locations with foraging habitat but limited nesting habitat through GIS models. At those locations, potential nest trees will be created using fungal inoculation or mechanical tree enhancement methods.	\$117,480	Cailyn Glasser Okanagan Nation Alliance 250-708-0095 ext. 213 <a href="mailto:cglasser@sylix.org">cglasser@sylix.org</a>

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3-419	Fraser River Bighorns: Disease Assessment and Connectivity	This project year will build on data collected during Year 1 to apply an experimental approach to improve pathogen fade-out and recover a band of Fraser River bighorn sheep that is currently infected with <i>Mycoplasma ovipneumoniae</i> (Movi). GPS collar data will continue to be used to monitor connectivity among herds and investigate mortalities.	\$34,150	Jeremy Ayotte Phyla Biological Consulting Inc. 250-804-3513 <a href="mailto:Jeremy.ayotte@gmail.com">Jeremy.ayotte@gmail.com</a>
3-425	Turtle Valley Farm/Toad Hollow Invasive Plant Management and Rehabilitation Project (Year 1 of 3)	This Land Stewardship Grant will support operations and management activities on this important conservation land. Funding amount is for three-year term.	\$45,051 for three years	Danielle Cross The Nature Conservancy of Canada 250-216-8502 <a href="mailto:Danielle.cross@natureconservancy.ca">Danielle.cross@natureconservancy.ca</a>
3-427	Logan Lake Aeration Upgrade	Logan Lake is a high use lake which provides year-round angling opportunities for the local community. The existing aeration system and surrounding facilities will be upgraded to prevent annual winterkill from low winter oxygen levels.	\$48,000	Andrew Klassen Ministry of Forests, Lands, Natural Resource Operations and Rural Development 250-371-6237 <a href="mailto:andrew.klassen@gov.bc.ca">andrew.klassen@gov.bc.ca</a>
3-428	Mid Fraser Sturgeon Monitoring Program	This proposal seeks to develop a multi-year priority White sturgeon monitoring program in the Mid Fraser River near Lillooet BC. The goals are to 1) assess the distribution of Nechako origin hatchery fish in Mid Fraser and develop a mitigation strategy for potential removal 2) improve spatial distribution of tagging in Region 3 downstream of Lillooet 3) obtain updated information on abundance in Region 3 & 5 to inform COSEWIC and SARA review processes and 4) assess current recreational fishery and determine whether it is operating sustainable.	Pending	Greg Andrusak Ministry of Forests, Lands, Natural Resource Operations and Rural Development 778-698-9237 <a href="mailto:greg.andrusak@gov.bc.ca">greg.andrusak@gov.bc.ca</a>



3-428 Middle Fraser Sturgeon Guardian Program

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## Approved projects in the Kootenay Region

Project #	Project Name	Project Description	Board Approved	Contact Information
4-64	O&M - (FSH) - Kootenay	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	Matt Neufeld Ministry of Forests, Lands, Natural Resource Operations and Rural Development 250-354-6353 matt.neufeld@gov.bc.ca
4-248	Gerrard Rainbow Trout Critical Monitoring	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	Molly Teather Ministry of Forests, Lands, Natural Resource Operations and Rural Development 250-354-6948 molly.teather@gov.bc.ca
4-345	Kootenay Conservation Program (KCP)	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. This project includes: acting as a "one window" approach for coordinating and working with land trusts to prioritize acquisitions, and acquire at least one high priority property in 2020/21; leveraging Stewardship Committee partners' landowner outreach efforts through the distribution and promotion of Stewardship Solutions, hosting a Conservation Action Forum and achieving 10% of past conservation actions, and coordinating on-the-ground stewardship activities through the Kootenay Connect initiative; Working towards expanding the Local Conservation Funds into the Slocan Lake and Kootenay Lake areas; Building capacity of partner organizations (webinars, workshops, field tours), and serving as a network to identify synergies and collaborative actions.	\$35,000	Juliet Craig The Nature Trust of British Columbia 604-924-9771 manager@kootenayconservatio n.ca
4-444	Kootenay Region River Guardian Program	River Guardian presence in eight Kootenay Region classified watersheds with 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.	\$147,500	Kevin Heidt Ministry of Forests, Lands, Natural Resource Operations and Rural Development 250-489-8556 Kevin.Heidt@gov.bc.ca
4-461	Boundary Restoration and Enhancement Program	This project will improve habitat quality, ecosystem resiliency and forage availability for ungulates and other native species by restoring or enhancing degraded habitats and ecosystems in the Boundary. This project will build community stewardship and technical capacity with partnerships.	Pending	Lisa Tedesco Ministry of Forests, Lands, Natural Resource Operations and Rural Development 250-354-6163 lisa.m.tedesco@gov.bc.ca
4-539	Determination of Gerrard Rainbow Trout Stock Productivity at Low Abundance	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	Greg Andrusak Ministry of Forests Lands Natural Resource Operations and Rural Development 778-698-9237 greg.andrusak@gov.bc.ca
4-546	Bull River Bighorn Sheep: Herd Health and Movement Dynamics	This multiyear project will support the ongoing deployment of GPS collars as they continue to function, provide movement data, and the potential for mortality investigations. There are 8/11 collars remaining on the Bull River herd, and 3/4 remaining on the Galton herd.	\$10,050	Jeremy Ayotte Phyla Biological Consulting Inc. 250-804-3513 jeremy.ayotte@gmail.com

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4-551	Fort Shepherd Conservancy Area (Year 1 of 3)	This Land Stewardship Grant will support operations and management activities on this important conservation land. Funding amount is for three-year term.	\$47,188	Karen Iwachow The Land Conservancy of BC 250-479-8053 <a href="mailto:kiwachow@conservancy.bc.ca">kiwachow@conservancy.bc.ca</a>
4-555	Determination of Bull Trout Stock Productivity at Low Abundance	This project will 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.	\$48,825	Greg Andrusak Ministry of Forests, Lands, Natural Resource Operations and Rural Development 778-698-9237 <a href="mailto:greg.andrusak@gov.bc.ca">greg.andrusak@gov.bc.ca</a>
4-556	Invasive plant management on bighorn sheep winter ranges	This project will involve a comprehensive and collaborative approach to managing invasive plants on 3 critical bighorn sheep winter ranges: Wigwam Flats, Bull River and Columbia Lake East. The quality of existing forage within low elevation bighorn sheep winter ranges is compromised at Bull River and Wigwam Flats. This project is attempting to increase the quality of grasslands by reducing invasive plants and increasing forage species. As Columbia Lake East has few invasive plants the goal is to conduct regular monitoring and treatments to maintain this status. In March 2018, most grassland ecosystems (low, medium and high elevation) in the East Kootenay were listed by the CDC as Red Listed (CDC 2018).	\$68,000	Irene Teske Ministry of Forests, Lands, Natural Resource Operations and Rural Development 250-489-8551 <a href="mailto:irene.teske@gov.bc.ca">irene.teske@gov.bc.ca</a>
4-560	Diversifying MPB Clear-cuts for Small Mustelids: Green-tree Retention, Debris Piles, and Enhanced Riparian habitats	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	Thomas Sullivan Applied Mammal Research Institute 250-494-7160 <a href="mailto:tom@appliedmammal.com">tom@appliedmammal.com</a>
4-563	Quantifying rates and mechanisms of grizzly bear mortality in the Elk Valley	This project will use radio telemetry 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, and actions, to solve pressing conservation concerns with meaningful benefits to wildlife and communities.	\$27,000	Clayton Lamb Ministry of Forests, Lands, Natural Resource Operations and Rural Development 778-215-0334 <a href="mailto:ctlamb@ualberta.ca">ctlamb@ualberta.ca</a>
4-571	Invasive Fish Species Eradication at New and Fussee Lakes	This project will eradicate illegally introduced largemouth bass at Fussee Lake and yellow perch at New Lake in the East Kootenays of BC.	\$100,000	Heather Lamson Ministry of Forests, Lands, Natural Resource Operations and Rural Development 250-489-8561 <a href="mailto:heather.lamson@gov.bc.ca">heather.lamson@gov.bc.ca</a>
4-576	Maintenance of Furbearers and Prey Species on Large Clear-cut Openings Using Linear Piles of Woody Debris	This project will 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	Thomas Sullivan Applied Mammal Research Institute 250-494-7160 <a href="mailto:tom@appliedmammal.com">tom@appliedmammal.com</a>
4-581	Preserving the Ecological Function of BC's Freshwater *	This project will undertake plankton tow sampling in lakes in the Central Kootenay region to monitor for the presence of invasive mussels.	\$15,000	Jennifer Vogel Central Kootenay Invasive Species Society 844-352-1160 <a href="mailto:admin@ckiss.ca">admin@ckiss.ca</a>
4-582	East Kootenay Invasive Mussels Monitoring Project *	This project will monitor lakes in the East Kootenay region for invasive mussels through veliger sampling.	Pending	Danny Smart East Kootenay Invasive Species Council 250-919-7826 <a href="mailto:danny@ekisc.com">danny@ekisc.com</a>

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4-593	Evaluating grizzly conservation management: quantifying recovery in the South Selkirk	This project will quantifiably evaluate 15 years of conservation activities recovering a threatened grizzly bear population in the South Selkirk 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. The results will also inform conservation management of grizzly bear populations across BC by providing a blueprint for managing stressed grizzly bear populations.	\$51,235	Michael Proctor Birchdale Ecological 250-353-8072 <a href="mailto:mproctor@netidea.com">mproctor@netidea.com</a>
4-597	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.	\$122,800	Ariana McKay Ministry of Forests, Lands, Natural Resource Operations and Rural Development 250-489-8557 <a href="mailto:17ichae.mckay@gov.bc.ca">17ichae.mckay@gov.bc.ca</a>
4-598	Identifying wolverine reproductive dens in the Columbia Mountains	This project will locate wolverine reproductive dens in the Columbia Mountains using citizen science, known female locations, habitat-based modeling and targeted searches with Unmanned Aerial Vehicles in order to inform efforts to secure critical habitat for this species at risk.	\$32,580	Doris Hausleitner Seepanee Ecological Consulting 250-505-7768 <a href="mailto:dorishaus@shaw.ca">dorishaus@shaw.ca</a>
4-600	Affecting behavior change: Invasive species prevention through education and outreach	This program will deliver effective and engaging educational workshops and training courses to promote increased environmental stewardship, awareness and positive behavior change for invasive species, and reduce their spread by providing information on prevention, identification, and best management practices.	\$10,700	Kendal Benesh East Kootenay Invasive Species Council 1-888-553-5472 <a href="mailto:Kendal@ekisc.com">Kendal@ekisc.com</a>
4-604	Pend d'Oreille River Veliger Sampling	This project will undertake plankton tow sampling on the Pend d'Oreille River including Seven Mile and Waneta Reservoirs.	\$8,853	Evan Smith Okanagan Nation Alliance 250-707-0095 <a href="mailto:esmith@sylix.org">esmith@sylix.org</a>
4-610	Elk Valley bighorn sheep winter range habitat condition reassessment	This project will re-assess habitat condition of red-listed high elevation grasslands and high value bighorn sheep winter ranges along the east side of the Elk Valley.	\$58,300	Irene Teske Ministry of Forests, Lands, Natural Resource Operations and Rural Development 250-489-8551 <a href="mailto:irene.teske@gov.bc.ca">irene.teske@gov.bc.ca</a>
4-611	Elk Valley West bighorn sheep population dynamics and habitat condition	This project will identify survival rates and causes of mortality, seasonal range use and movement corridors, and health sampling for the Elk Valley West population of bighorn sheep. This project will evaluate existing habitat to provide information to help make informed wildlife management decisions.	\$47,360	Sam Medcalf Sparwood and District Fish & Wildlife Association 250-425-5531 <a href="mailto:smedcalf83@hotmail.com">smedcalf83@hotmail.com</a>
4-613	Kootenay Lake Kokanee Recovery Project	This project will assist the Ministry of Forests, Lands, Natural Resource Operations and Rural Development with the recovery of Kootenay Lake kokanee and will encourage increased angler participation in the public fishery. The project will involve collection of Bull Trout and rainbow trout heads and relevant data from the public fishery.	\$49,995	BC Wildlife Federation 6048829988 <a href="mailto:Gordon.grunerud@shaw.ca">Gordon.grunerud@shaw.ca</a>
4-616	Providing Safe Passages for Wildlife in the Southern Canadian Rockies	This project will retrofit two existing bridges in the Alexander Michel Linkage area of Highway 3 to create suitable wildlife underpasses and fence between them, which will guide wildlife to the crossing structures, preventing wildlife-vehicle collisions and increasing ecosystem connectivity.	\$40,000	Emily Chow Ministry of Forests, Lands, Natural Resource Operations and Rural Development 250-489-8589 <a href="mailto:Emily.Chow@gov.bc.ca">Emily.Chow@gov.bc.ca</a>

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4-617	Restoring Functional Habitat in the Upper Elk Valley	The high road density in the Elk Valley is a threat to multiple terrestrial and aquatic ecosystem values. To reduce risks to the ecosystem and restore ecosystem function, this project will restore 34 km of road in high value habitat for moose, grizzly bears, and westslope cutthroat trout.	\$66,060	Meghan Anderson Ministry of Forests, Lands, Natural Resource Operations and Rural Development 250-420-8608 <a href="mailto:meghan.anderson@gov.bc.ca">meghan.anderson@gov.bc.ca</a>
4-618	Upper Elk Valley Invasive Plant Management	The upper Elk Valley Invasive Plant Management Project provides a multi-stake holder framework which aims to minimize and contain the presence of invasive plant species and maintain the biodiversity and ecological function in the upper Elk Valley with an emphasis on areas of high habitat value (i.e. Bighorn Sheep habitat).	Pending	Kendal Benesh East Kootenay Invasive Species Council 1-888-553-5472 <a href="mailto:Kendal@ekisc.com">Kendal@ekisc.com</a>
4-621	Middle-Upper Bigmouth Creek	This project intends to add to the restoration works completed previously with initial functional restoration work occurring through a Yucwmenlucwu, BCTS, and FLNRORD partnership. To date this project has achieved functional and structural restoration of a 6.7 km section of road in the upper Bigmouth valley. This year, the project will develop a restoration prescription for an additional 11.5 km of road immediately downstream of the original project footprint with hope of establishing a 18.2 km section of linear restoration.	\$33,217	Corey Bird Yucwmenlucwu (Caretakers of the Land) LLP 250-838-0775 ext 121 <a href="mailto:corey.bird@splatsindc.com">corey.bird@splatsindc.com</a>



4-546 Bull River Bighorn Sheep: Herd Health and Movement Dynamics

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## Approved Projects in the Cariboo Region

Project #	Project Name	Project Description	Board Approved	Contact Information
5-44	O&M – (FSH) – Cariboo	This project will enhance fisheries through lake aeration on Skulow, Irish and Simon lake; operation and maintenance of Haines Cr diversion to the 11 sister lakes; dams, weirs, and fish passage restoration on other lakes and stream.	\$53,000	Todd Gale Ministry of Forests, Lands, Natural Resource Operations and Rural Development 250-398-4555 <a href="mailto:Todd.Gale@gov.bc.ca">Todd.Gale@gov.bc.ca</a>
5-196	Mid-Fraser River Sturgeon Assessment	This multiyear project will fill knowledge gaps of sturgeon habitat use and behavior in the mid-Fraser, including improving understanding of stock structure, juvenile recruitment and adult habitat use in northern sections of the mid-Fraser.	\$33,000	Lee Williston Ministry of Forests, Lands, Natural Resource Operations and Rural Development 250-398-4696 <a href="mailto:Lee.Williston@gov.bc.ca">Lee.Williston@gov.bc.ca</a>
5-239	Quality Waters Strategy – Cariboo Region	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.	\$146,401	Lee Williston Ministry of Forests, Lands, Natural Resource Operations and Rural Development 250-398-4696 <a href="mailto:lee.williston@gov.bc.ca">lee.williston@gov.bc.ca</a>
5-286	Implementation of Cariboo Core Area Bull Trout Monitoring	This project will implement recommendations from a previously HCTF funded project (i.e. the Middle and Upper Fraser Bull Trout Management Plan) and achieve desired outcomes that support increased sustainable opportunity (angling) and long-term stock conservation.	\$47,700	Mike Ramsay Ministry of Forests, Lands, Natural Resource Operations and Rural Development 250-398-4530 <a href="mailto:Mike.Ramsay@gov.bc.ca">Mike.Ramsay@gov.bc.ca</a>
5-296	Chilko Lake bull trout movements and exploitation	This project will track 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.	\$59,814	Scott Hinch The University of British Columbia 604-822-9377 <a href="mailto:scott.hinch@ubc.ca">scott.hinch@ubc.ca</a>
5-297	Central Interior Lake Trout Exploitation Study	This study will 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.	\$85,271	Russell Bobrowski Ministry of Forests, Lands, Natural Resource Operations and Rural Development 250-398-4258 <a href="mailto:Russell.Bobrowski@gov.bc.ca">Russell.Bobrowski@gov.bc.ca</a>
5-306	Horsefly River – Rainbow Trout Enumeration and Habitat Use Study	This project will develop a cost-effective method to index abundance of Quesnel Lake rainbow trout. This will provide the basis for long term management of the stock and will use acoustic telemetry to identify critical habitats across the Horsefly River watershed. Information will then be used to implement legislative habitat protection measures.	\$53,000	Lee Williston Ministry of Forests, Lands, Natural Resource Operations and Rural Development 250-398-4696 <a href="mailto:lee.williston@gov.bc.ca">lee.williston@gov.bc.ca</a>
5-310	Invasive Mussel Monitoring for 11 Priority Lakes in the Cariboo Regional District *	This project will monitor lakes in the Cariboo region for invasive mussels through plankton sampling for veliger detection.	Pending	Sue Staniforth Invasive Species Council of British Columbia 250-392-1400 <a href="mailto:education@bcinvasives.ca">education@bcinvasives.ca</a>

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5-313	Assessing high-elevation forest harvesting strategies to maintain caribou and moose habitat	This multiyear project is designed to understand the use of high-elevation forestry blocks by moose, caribou, wolves and bears. This project will assess differences in the distribution of moose, caribou, and their predators across an adaptive management trial with conventional (>25ha) and small (<1.0ha) clear-cuts as well as an unharvested control. This study will provide guidance to land managers attempting to limit apparent competition between moose and caribou. The results could direct efforts to enhance moose habitat across portions of the province where caribou and moose are not spatially adjacent.	\$27,779	Chris Johnson University of Northern British Columbia 250-960-5357 <a href="mailto:johnsoch@unbc.ca">johnsoch@unbc.ca</a>
5-318	Ulkatcho Restoration Area	This project is designed to benefit the Itcha-Ilgachuz herd by rehabilitating roads to deter predator movement. This year, the project will focus on restoration costs (over and above initial planning and prescriptions) for 10 non-status roads identified in an initial planning exercise, plus the costs for rehabilitation on the additional roads identified.	Pending	Nathan Davis Ministry of Forests, Lands, Natural Resource Operations and Rural Development 250 398-4317 <a href="mailto:Nathan.Davis@gov.bc.ca">Nathan.Davis@gov.bc.ca</a>
5-321	Functional Road Rehabilitation for Moose Habitat Enhancement	The Quesnel Natural Resource District, Nazko First Nation and ?Esdilagh First Nation, in collaboration, have identified areas suitable for road rehabilitation to ensure the enhancement of moose habitat. This has been done using local knowledge and cumulative effects analysis.	Pending	Ryan Robertson Ministry of Forests Lands Natural Resource Operations and Rural Development 236-713-2287 <a href="mailto:ryan.robertson@gov.bc.ca">ryan.robertson@gov.bc.ca</a>
5-327	Dean River Acoustic/Radio Telemetry	Evaluation of acoustic/radio telemetry as a biological assessment tool for Dean steelhead.	\$5,000	Mike Ramsay Ministry of Forests, Lands, Natural Resource Operations and Rural Development 250-398-4530 <a href="mailto:Mike.Ramsay@gov.bc.ca">Mike.Ramsay@gov.bc.ca</a>



5-310 Invasive Mussel Monitoring for 11 Priority Lakes in the Cariboo Regional District

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## Approved Projects in the Skeena Region

Project #	Project Name	Project Description	Board Approved	Contact Information
6-97	Skeena Weir and Steelhead Stock Assessment	This project will provide wild Skeena Watershed steelhead abundance data at three index sites: the upper Sustut River weir including Takla First Nation overwinter steelhead exploitation assessment, the Kitwanga River DIDSON (dual beam identification sonar) sonar and the Kloiya River resistivity counter to enumerate and assess overwinter exploitation of an upper Skeena, early run-timing, a mid-Skeena summer and a coastal winter run steelhead population, respectively.	\$77,500	Mark Beere Ministry of Forests, Lands, Natural Resource Operations and Rural Development 250.847.7297 <a href="mailto:mark.beere@gov.bc.ca">mark.beere@gov.bc.ca</a>
6-227	Restoring Whitebark Pine Ecosystems to Enhance Subalpine Bear Habitat	This multiyear project will restore endangered whitebark pine ecosystems with high value for bears in southern Skeena Region. This year the project plans to germinate 50,000 seeds & grow seedlings, complete a 10-yr assessment of Gosnell trial, help partners to plant more seedlings, and undertake outreach activities.	\$10,000	Sybillie Haeussler Bulkley Valley Centre for Natural Resources Research & Management 250-847-2827 <a href="mailto:Sybillie.Haeussler@unbc.ca">Sybillie.Haeussler@unbc.ca</a>
6-252	Determining Population Management Unit Boundaries for Mountain Goats in the Skeena Region	Using GPS collar and genetic data, this project will quantify home ranges and habitat selection, and determine genetic relatedness of mountain goats on three adjacent complexes near Smithers, BC. Results from these analyses will help delineate biologically meaningful population management unit boundaries, and potentially inform boundaries across the remainder of the Skeena region.	\$29,900	Kara MacAulay Ministry of Forests, Lands, Natural Resource Operations and Rural Development 250-847-7511 <a href="mailto:Kara.MacAulay@gov.bc.ca">Kara.MacAulay@gov.bc.ca</a>
6-268	Quality Waters Strategy – Skeena	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. Also includes stock assessment activities on the Skeena, Kitwanga, and Bulkley Rivers.	\$113,000	Kenji Miyazaki Ministry of Forests, Lands, Natural Resource Operations and Rural Development 250 847-7292 <a href="mailto:Kenji.Miyazaki@gov.bc.ca">Kenji.Miyazaki@gov.bc.ca</a>
6-276	Cassiar Stone's Sheep Habitat Use Study	This multiyear project in the Cassiar Mountains of northern British Columbia will continue to investigate habitat selection, movement behaviours and overall health of the Cassiar Stone's Sheep herd. Research findings will provide a scientific foundation and management recommendations to effectively conserve Stone's Sheep habitat and health.	\$27,827	Mark Boyce University of Alberta 780-492-0081 <a href="mailto:boyce@ualberta.ca">boyce@ualberta.ca</a>
6-283	Tweedsmuir caribou winter range – Chelaslie road restoration	This project builds upon a previously funded HCTF project and will develop a tactical restoration plan for priority areas in the Tweedsmuir caribou range, preliminary implementation plans for 3 of these areas, and a monitoring plan. This year, the project will complete field validation of sites, pre-treatment site assessment, implementation of wildlife camera array, implementation of functional restoration activities, and extension.	\$385,960	Anne-Marie Roberts Ministry of Forests, Lands, Natural Resource Operations and Rural Development 250 847-7328 <a href="mailto:annemarie.roberts@gov.bc.ca">annemarie.roberts@gov.bc.ca</a>
6-288	Bulkley River Watershed Fish Passage Restoration	This project will conduct habitat confirmation assessments at previously prioritized stream crossing barriers in the Bulkley River watershed to determine where fish passage remediation is likely to result in the largest gains of fish habitat of the highest value in the watershed. In addition, this project will analyze existing fish passage information for the Morice River watershed in the context of fish habitat GIS modelling to prepare for field assessments in this area.	\$39,864	Allan Irvine Society for Ecosystem Restoration Northern British Columbia 250-777-1518 <a href="mailto:ai@newgraphenenvironment.com">ai@newgraphenenvironment.com</a>
6-290	First Nation led Northern Goshawk Conservation on the Central Coast	Led by the Kitasoo/Xai'xais First Nation, this multiyear project will conduct a Northern Goshawk nest and habitat assessment. Project results will support the province's Implementation Plan for the Recovery of Northern Goshawks and the Kitasoo/Xai'xais' Great Bear Rainforest Land Use Order's Landscape Reserve Design (LRD) process.	\$43,788	Christina Service Kitasoo Xai'xais First Nation Stewardship Authority 250-580-7302 <a href="mailto:christina.service@gmail.com">christina.service@gmail.com</a>

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6-291	Skeena Goldfish Eradication	This project will use a combination of chemical treatment (rotenone) and environmental DNA monitoring to eradicate a population of invasive goldfish in Lost Lake and ensure that no fish have been accidentally or deliberately transported to other waterbodies.	Pending	Kris Maier Ministry of Forests, Lands, Natural Resource Operations and Rural Development 250-847-7321 <a href="mailto:Kris.Maier@gov.bc.ca">Kris.Maier@gov.bc.ca</a>
6-292	Skeena Region Fluvial Char Baselines	This project will identify species composition, geographical distribution and exploitation rates of fluvial chars (Bull Trout and Dolly Varden) in various fisheries in the lower Nass and middle Skeena Rivers using high-reward floy tagging and genetic sampling.	\$48,000	Kris Maier Ministry of Forests, Lands, Natural Resource Operations and Rural Development 250-847-7321 <a href="mailto:Kris.Maier@gov.bc.ca">Kris.Maier@gov.bc.ca</a>
6-293	Lower Nass River Watershed Winter Steelhead Assessment and Creel Feasibility Project	Tributaries located in the lower Nass River watershed are home to winter steelhead. With minimal stock assessment or angler effort data, detecting changes in vulnerable fish populations is a challenge. This project will develop partnerships, capacity and a methodology in order to collect future stock assessment and angler use data. Data collection will directly influence fisheries management decisions on winter steelhead tributaries in the lower Nass River watershed.	\$5,000	Kenji Miyazaki Ministry of Forests, Lands, Natural Resource Operations and Rural Development 250-847-7292 <a href="mailto:kenji.miyazaki@gov.bc.ca">kenji.miyazaki@gov.bc.ca</a>



6-252 Determining Population Management Unit Boundaries for Mountain Goats in the Skeena Region

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## Approved Projects in the Omineca/ Peace Region

Project #	Project Name	Project Description	Board Approved	Contact Information
7-98	O&M – (FSH) – Peace	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.	\$21,750	Michel Lavallee Ministry of Forests, Lands, Natural Resource Operations and Rural Development 250-787-3324 <a href="mailto:Michel.Lavallee@gov.bc.ca">Michel.Lavallee@gov.bc.ca</a>
7-431	Muskwa Arctic grayling: age structure and migration timing.	This project will conduct further data analyses from already lethally sampled sympatric Arctic grayling lineages in Muskwa River to inform age structure, natal stream residence time, and improve understanding of their conservation status.	\$16,400	Michael Stamford Stamford Environmental 604-886-4752 <a href="mailto:stamford@telus.net">stamford@telus.net</a>
7-433	Protecting fishers from incidental capture: Extension of trap exclusion plates	This project will build on a previously funded HCTF project (i.e. Managing for incidental fisher harvest: fisher exclusion plate trial conducted in 2015-2017) in the Peace and Cariboo regions, by developing extension tools such as CAD drawings of the trap design and video testimonial to increase voluntary uptake of the exclusion plate with BC trappers.	\$15,900	Inge-Jean Hansen Ministry of Forests, Lands, Natural Resource Operations and Rural Development 250-784-1297 <a href="mailto:IngeJean.Hansen@gov.bc.ca">IngeJean.Hansen@gov.bc.ca</a>
7-436	Enhancing caribou survival within the Klinse-Za/Scott herds	This multiyear project is 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.	\$60,060	Tamara Dokkie Nikanêse Wah tzee Stewardship Society 250-788-3676 <a href="mailto:tamara.dokkie@westmo.org">tamara.dokkie@westmo.org</a>
7-451	Monitoring Plan for the Mountain Goat ( <i>Oreamnos americanus</i> ) in the Omineca Region	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 and 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 multiyear 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	Michael Klaczek Ministry of Forests, Lands, Natural Resource Operations and Rural Development 250-614-7563 <a href="mailto:23ichael.klaczek@gov.bc.ca">23ichael.klaczek@gov.bc.ca</a>
7-471	Determining the Nutritional Importance of Kokanee to Grizzly Bears	Through non-invasive hair collection methods, this project will 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.	\$32,340	Shelley Marshall Ministry of Forests, Lands, Natural Resource Operations and Rural Development 250-614-7458 <a href="mailto:shelley.marshall@gov.bc.ca">shelley.marshall@gov.bc.ca</a>
7-473	Wolf predation risk to moose in north-central BC	This project investigates seasonal wolf predation risk to moose in two of the provincial moose research project study sites. This project will 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.	\$65,550	Morgan Anderson Ministry of Forests, Lands, Natural Resource Operations and Rural Development 250-614-7419 <a href="mailto:Morgan.Anderson@gov.bc.ca">Morgan.Anderson@gov.bc.ca</a>
7-475	Chase Caribou Herd Response to Extensive Habitat Alterations	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. This project will contrast current population parameters (i.e., seasonal range use, habitat use/selection, mortality causes, and calf recruitment) to population parameters of the herd prior to recent disturbance.	\$53,775	Krista Sittler Wildlife Infometrics Inc 250-997-5700 <a href="mailto:krista.sittler@wildlifeinfometrics.com">krista.sittler@wildlifeinfometrics.com</a>

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7-496	KlinseZa/Scott East Caribou Maternal Pen Health Evaluation	In the final year of this multiyear project, the objective is to synthesize our investigation of Klinse-Za/Scott East caribou health into a manuscript ready for peer review. Over 1,000 biological samples have now been collected and most have gone through lab analysis. This year will focus our manuscript around 1) evaluating potential health effects of maternal penning, at the individual and group scale, and 2) characterizing herd-level parameters of health and disease.	\$18,786	Tamara Dokkie Nikanēse Wah tzee Stewardship Society 250-778-3676 <a href="mailto:tamara.dokkie@westmo.org">tamara.dokkie@westmo.org</a>
7-518	Evaluating elk population trend, habitat use, and potential for competition with moose in the southern central Omineca	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. This project will provide science-based information for decision makers to consider when addressing these concerns.	\$42,150	Matt Scheideman Ministry of Forests, Lands, Natural Resource Operations and Rural Development 250-614-7456 <a href="mailto:Matthew.Scheideman@gov.bc.ca">Matthew.Scheideman@gov.bc.ca</a>
7-519	Canada Lynx habitat ecology on an intensively harvested landscape.	Using a combination of GPS collars and non-invasive survey techniques this project 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.	\$70,628	Shannon Crowley Chuzghun Resources Corp.- John Prince Research Forest 778-978-0117 <a href="mailto:crowley@unbc.ca">crowley@unbc.ca</a>
7-522	Northern Myotis Maternal Roost Study	This project will locate and describe biophysical attributes of maternal colonies of the federally endangered Northern Myotis through capture and radio telemetry to inform critical habitat designation, contribute to the development of a habitat management tool for industry, and explore additional mechanisms for habitat protection.	\$32,650	Brian Paterson Zonal Ecosystem and Wildlife Consultants Inc. 250-731-6028 <a href="mailto:bapaterson@gmail.com">bapaterson@gmail.com</a>
7-528	Amoco Road Restoration	This project is designed to benefit the Klinse-Za caribou herd by using functional restoration treatments on a road built for oil and gas exploration. This year of the project aims to secure permits, complete outcome reporting, project outreach, implementation of restoration activities and monitoring of effectiveness. Approximately 30-ha (calculated based on an average width of 20-m along a 15-km linear corridor) and an additional 15-ha (old well-sites and widened openings) of ESSF-forest will be restored by proposed activities.	\$53,150	Tamara Dokkie Nikanēse Wah tzee Stewardship Society 250-788-3676 <a href="mailto:tamara.dokkie@westmo.org">tamara.dokkie@westmo.org</a>
7-529	Kotcho Lake Restoration Area (KLRA)	This project is designed to benefit the Snake-Sahtahneh caribou herd by limiting predator use of legacy seismic lines and using revegetation to increase habitat suitability for caribou. This year of the project is for implementation and monitoring of restoration activities.	Pending	Lana Lowe Fort Nelson First Nation Lands Office 250-774-6313 <a href="mailto:lane.lowe@fnnation.ca">lane.lowe@fnnation.ca</a>
7-538	Health and Behavior of BC's Southern Most Stone's Sheep	This multiyear project will focus on the two southern most functionally viable Stone's sheep populations, the Dunlevy and Schooler herds. Due to their proximity to domestic farms and overlap with elk, these wild sheep are at "high risk". Over the life of the project, the goals are to: reassess their health status, monitor population demographics/behavior and develop/implement habitat enhancement prescriptions that will enhance Stone's sheep habitat and encourage separation between Stone's sheep, elk and domestic livestock.	Pending	Robin Routledge Wild Sheep Society of British Columbia 250-262-9058 <a href="mailto:routledger@gmail.com">routledger@gmail.com</a>
7-540	Prescribed Burns for Wild Sheep Habitat Enhancement in Northeastern BC	Stone's and bighorn sheep are an iconic species in British Columbia. The purpose of this project is to enhance critical lambing, summer and winter habitats for wild sheep in northeastern British Columbia through application of prescribed fire. Success of the treatment on wildlife use and vegetation response will be monitored.	Pending	Alicia Woods Ridgeline Wildlife Enhancement 250-262-9630 <a href="mailto:adwoods04@gmail.com">adwoods04@gmail.com</a>

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7-543	Peck Creek-Upper Carbon	This project aims to reduce line of sight, reduce predator movement and reduce motorized access at the Peck Creek, Upper Carbon road site. The proponent estimates that this will result in the restoration of approximately 34 ha of ESSF. This year will focus on securing permits, project outreach, implementation of restoration activities, and monitoring.	\$123,865	Tamara Dokkie Níkanêse Wah tzee Stewardship Society 250-788-3676 <a href="mailto:tamara.dokkie@westmo.org">tamara.dokkie@westmo.org</a>
7-544	Doonan Creek	This project aims to reduce line of sight, reduce predator movement and reduce motorized access at the Doonan Creek Corridor, a 1.6 km section of active cut block access road. The proponent estimates that this will result in the restoration of approximately 2 ha of ESSF. This year will focus on securing permits, project outreach, implementation of restoration activities, and monitoring.	\$15,164	Tamara Dokkie Níkanêse Wah tzee Stewardship Society 250-788-3676 <a href="mailto:tamara.dokkie@westmo.org">tamara.dokkie@westmo.org</a>



7-436 Enhancing caribou survival within the Klinse-Za/Scott herds, Caribou in the maternal pen

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## Approved Projects in the Okanagan Region

Project #	Project Name	Project Description	Board Approved	Contact Information
8-90	Wildlife Habitat Stewardship and Enhancement in the Okanagan and Similkameen Valleys	This project continues to build on successes made over the past 6 years of Okanagan Similkameen Stewardship, supporting land stewardship, conservation and enhancement activities on lands within the Regional District of Okanagan-Similkameen (RDOS), Regional District of Central Okanagan (RDCO) and Regional District of North Okanagan (RDNO).	\$48,238	Alyson Skinner Okanagan Similkameen Stewardship Society 250-809-1980 <a href="mailto:alyson@osstewardship.ca">alyson@osstewardship.ca</a>
8-124	O&M – (FSH) – Okanagan	This request covers Operations and Maintenance of HCTF projects completed around the Okanagan Region. The key O&M activities are: (1) Aeration of high effort small lakes fisheries: Burnell Lake aerator operation and water diversion maintenance, Kidd Lake aerator operation, Yellow Lake aerator operation, Gardom Lake aerator operation, Martins Lake aerator operation; (2) Dam maintenance on 14 Okanagan region lakes with conservation water licenses; (3) Maintenance of kokanee (and rainbow) spawning habitat: Mission Creek spawning channel maintenance, Vaseux Creek fishway maintenance, Peachland Creek restoration structure maintenance and gravel scarification, Vernon creeks restoration structure maintenance.	\$80,500	Tara White Ministry of Forests, Lands, Natural Resource Operations and Rural Development 250-490-2287 <a href="mailto:tara.white@gov.bc.ca">tara.white@gov.bc.ca</a>
8-320	Mission Creek Restoration Initiative – Monitoring and Restoration Planning	This proposal is focused on monitoring and evaluation of recently completed habitat restoration projects, and development of a conservation and restoration plan for lower Mission Creek.	\$35,514	Steve Matthews Mission Creek Restoration Initiative 250-494-5005 <a href="mailto:matthewsenvconsulting@gmail.com">matthewsenvconsulting@gmail.com</a>
8-349	South Okanagan Similkameen Conservation Program (SOSCP) Habitat Conservation Delivery	This project will establish 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	Bryn White Regional District of Okanagan Similkameen 250-490-8225 <a href="mailto:bryn.white@gov.bc.ca">bryn.white@gov.bc.ca</a>
8-408	Mule deer response to wildfire and habitat change in southern British Columbia	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	Adam Ford University of British Columbia 250-807-9773 <a href="mailto:adam.ford@ubc.ca">adam.ford@ubc.ca</a>
8-422	Psoroptes infected bighorn sheep and their response to landscape level disturbances	This project will determine what the behavioral and biological response of a Psoroptes infected bighorn sheep to large scale wildfires and prescribed burns is, and how sheep behavior is modified in response to high intensity helicopter activity.	\$52,975	Craig McLean Ministry of Forests, Lands, Natural Resource Operations and Rural Development 250-490-8254 <a href="mailto:Craig.a.mclean@gov.bc.ca">Craig.a.mclean@gov.bc.ca</a>
8-433	Restoring Black Cottonwood Riparian Ecosystems for Species at Risk in the Kettle River Watershed	Encouraging stewardship by assisting with riparian restoration is a tool we use to help conserve Riparian Black Cottonwood Forests in the Kettle River Watershed. This project will help to conserve the many species at risk that rely upon these ecosystems by establishing relationships with private landowners and assisting them in identifying stewardship opportunities and implementing restoration work; working with and encouraging local governments to contribute to conservation through policy and restoration efforts to protect species such as our riparian ambassador the Lewis's Woodpecker.	\$53,080	Jenny Coleshill Granby Wilderness Society 250-442-7969 <a href="mailto:jenny.coleshill@granbywilderness">jenny.coleshill@granbywilderness</a>

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8-436	Mussel Sampling 2019 Boundary Area *	This project will monitor Jewel Lake for invasive mussels through sampling to test for the presence of mussel veligers.	\$1,955	Barb Stewart Boundary Invasive Species Society 250-446-2232 manager@boundaryinvasives.com
8-437	Christina Lake Invasive Mussel Monitoring *	This project will monitor Christina Lake for the presence of invasive mussels through sampling for the detection of mussel veligers.	\$4,757	Suzanne Adrain-Vincent Christina Lake Stewardship Society 250-447-2504 clss@shaw.ca
8-438	Okanagan Invasive Mussel Monitoring *	This project will monitor for invasive mussels in the Okanagan region including plankton tow sampling for veliger detection.	*Pending	Lisa Scott Okanagan and Similkameen Invasive Species Society 250-404-0115 oasiss@shaw.ca
8-452	Enhancement of Winter Range Habitat for Mule Deer in Douglas-fir Forests	This project is designed to investigate a range of harvesting options in mule deer winter range in the Bald Range west of Summerland. The goal is to maintain overstory cover and stimulate forage production concurrently. The project area is 2000 ha and a range of harvesting regimes with replicated openings will be tested.	\$22,400	Thomas Sullivan Applied Mammal Research Institute 250-488-7684 <a href="mailto:tom@appliedmammal.com">tom@appliedmammal.com</a>
8-457	R.E. Taylor Conservation Property (Year 1 of 3)	This Land Stewardship Grant will support operations and management activities on this important conservation land. Funding amount is for three-year term.	\$9,130 for three years	Ross Everatt Southern Interior Land Trust Society 250-328-4699 reveratt@siltrust.ca
8-460	Bessette Creek Temperature Modelling	This project will develop stream temperature models to assess the efficacy of thermal management strategies on Bessette and Duteau Creek. The effects of riparian planting, flow management, and climate change will be assessed with regard to local salmonid thermal thresholds.	\$60,463	Ryan Whitehouse Ministry of Forests, Lands, Natural Resource Operations and Rural Development 250-682-2725 ryan.whitehouse@gov.bc.ca
8-463	Facilitating Collaboration for Habitat Conservation in the North and Central Okanagan	This project will benefit fish and wildlife habitat conservation through collaborative partnerships focused on environmental planning initiatives, and the establishment of local government conservation funds (e.g. tax levies).	\$28,000	Scott Boswell Thompson Okanagan Tourism Association 250-860-5999 ceo@totabc.com
8-466	Upper Shuswap River drainage Bull Trout Assessment	This project will assess the current status of the bull trout population in the Upper Shuswap drainage and identify appropriate management options and angling regulations to address conservation concerns and maintain a sustainable quality fishery.	\$47,129	Tara White Ministry of Forests, Lands, Natural Resource Operations and Rural Development 250-490-2287 Tara.white@gov.bc.ca

*\*We gratefully acknowledge the financial support of the Province of British Columbia through the Ministry of Environment & Climate Change Strategy and Fisheries and Oceans Canada through the Canada Nature Fund for Aquatic Species at Risk*

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