Full Proposal

Full Proposal Details

Full Proposal # :WR0000477

Full Proposal Status : FP Received

Project Information

Terms and Conditions

To review the terms and conditions click here

Project Information

Project Title:	Slocan Landscape Level WildfirePlan Implementation	**Project Country:**	Canada
Primary Purpose:	Wildfire Risk Reduction	**Project Location - State/Province:**	British Columbia
Project Start Date	04/01/2020	**Postal Code**	V0G 2J0
Project Completion Date	03/31/2022		

Contact Information

Principal Contact Information

Principal Contact Name:	Stephan Martineau	**City**	Winlaw
Country	Canada	**Postal Code**	V0G 2J0
Province	British Columbia	**Proponent's Organization**	Slocan Integral Forestry Cooperative (SIFCO)
Contact Email	stephan@sifco.ca	**Contact Phone**	250-226-7012
Contact Address	5645 Hoodikoff Road		

Project Details

Project Description

Full Proposal Number	WR0000477
Full Proposal Upload (PDF)	FES_BC_Work_Plan_2018_11_19_Ver_2.pdf
Region	Kootenay Boundary Region
Resource District	Arrow Boundary Forest District
Management Unit:	Community Forest
Project Site Location:	All projects are within the Slocan Valley BC. In Year one of this proposal five locations will be worked in: Alwyn watershed - Paradise Valley neighborhood - Elliott FSR - Slocan and Trozzo FSR. Please see Map attached below or in Appendix 2 of Work Plan uploaded to this site for details.
UTM Zone	
UTM Easting	
UTM Northing	
Location Map and Spatial Data File Attachment	WUI_Strategic_Overview_North_2018_11_26.pdf WUI_Strategic_Overview_South_2018_11_26.pdf
BEC Variant(s):	
Project Description:	The Strategic Fuel Management Plan proposes five general treatment regimes. The specific operations in each treatment unit will be documented in operational plan and/or prescription. All requirements of the regulatory regime will be met. Type 1 - Wildland Urban Interface Management. This treatment method addresses the non-merchantable material in a forest area. The following treatment regime is followed: • Understory conifers < 17.5 cm in diameter are thinned to approximately 500 stems/ha (density depends on prescription) • Overstory stems > 17.5 cm are retained, but pruned to a height of 2.5 to 3 m to remove ladder fuels. • Accumulations of surface fuels are abated. • Sufficient coarse woody debris > 25 cm in diameter is retained for ecological values. • Cut stems, prunings and other fuels are disposed of by

	chipping or by piling and burning. • Riparian reserves, steep slopes and small patches of retained understory provide habitat diversity. • Machine piling of fuels can be used in locations suitable for machine travel to reduce costs. Type 2 - Post-Harvest Fuel Management. This treatment method is applied to areas that have already been logged in the past year and focusses on fuel management and climate change adaptation. The treatment goal is to create an open forest of established large trees of fire resistant species in a reduced forest density / fuel load environment, per the SIFCo WUI stocking standards. The following treatment regime is followed: • 200 to 250 stems/ha of Layer 1, 2 and 3 stems are retained, if that number of suitable leave trees exist. Suitable leave trees are healthy individuals of fire resistant, long lived species (Fd, Lw, Py, Pw), deciduous stems, and minor other conifers for diversity. Leave trees should have a low height to diameter ratio to resist snow press. • Machine piling of remaining dispersed fuels in the treatment unit is carried out where possible. • Following machine piling, the hand treatment crew goes thought the harvest unit to address remnant dense understory patches, pruning, and carry out additional general fuel cleanup • Sufficient coarse woody debris > 25 cm in diameter is retained for ecological values. • Riparian reserves, steep slopes and small patches of retained understory provide habitat diversity. Type 4 - Fuel Management for Habitat Restoration and Ecosystem Resiliency. The southern portion of the CFA contains several areas of isolated dry site NDT4 ecosystems on steep south and south west facing slopes. These areas have unusual plant communities more commonly associated with the dry Interior Douglas Fir biogeoclimatic zone. Large ponderosa pine are common, and open pine forests with a fire adapted shrub/herb understory is the desired future condition. These areas are not part of or are marginally productive parts of the timber harvesting landbase. From a climate change adaptation perspective, these units contain outposts of the biota that should thrive in the surrounding areas as the climate warms. However, these areas are being reduced and degraded by coniferous ingress. Further, if/when these areas burn under current conditions, the fire is highly likely to be intense, fast moving, and uncontrollable due to combinations of steep slopes, frequent valley winds, high fine fuel loads, and generally hot and dry condition. Treatment consist of removal of coniferous ingress followed by a prescribe burn. Type 5 - Wildland-Urban Interface Re-treatment on Crown and Municipal Land. WUI fuel management reduces potential fire intensity and potential rate of spread by reducing the fuel load in the lower forest canopy. The rate at which post-treatment coniferous regeneration increases fuel loads is moderated by overstory retention to provide shade, retention of deciduous shrub vegetation, and seeding disturbed areas with ground cover mixtures. However, some restocking by conifers is inevitable in a forest ecosystem. Maintenance re-treatment is required to retain the efficacy of the initial fuel management work. Experience indicates that a re-treatment 7 to 10 years after the initial WUI fuel management is highly cost effective. Coniferous regeneration is small and easily cut with brush saws. Post treatment cut fuel loads are light, and can be safely disposed of by lop and scatter. Re-treatment on a shorter time frame is not required. Re-treatment on a longer time frame allows regeneration to grow to large size, resulting in rapidly increasing per hectare fuel management costs. Cost are averaging 8% of initial treatment cost in trial sites. This re-treatment insures that the original investments made and retained for another decade. For more details see work plan and maps attached to this application.
Project Keyword:	Implementation of Slocan Valley Landscape Level Wildfire Protection Plan
Attach Additional Information	
Is an existing tenure already in place?	Yes
If no, then please identify the proposed tenures and/or authorities required to complete work.	N/A
Will your project create a silviculture obligation?	No
If yes, who will hold that obligation?	
Is this project located in the Wildland Urban Interface?	Yes

Project Activities and Objectives

Project Activities	Prescriptions Fuel Management Treatments Fuel Management Maintenance Biomass Utilization
FESBC Purposes	Wildfire risk reduction/mitigation Wildlife habitat enhancement Rehabilitation of fire damaged or low value stands Opportunities to attain carbon benefits
Describe how the project will achieve the specified purpose(s).	A: Wildfire risk reduction and mitigation is the primary focus of the plan. A landscape-level approach to fuel management is required to reduce the opportunities for fires to expand from the local to the landscape scale, and thus avert the large fires that cause the most damage. SIFCo sees a landscape-level approach as the best method to protect communities, critical infrastructure and the substantial investments in fuel management made over the last ten years by the local, provincial and federal governments. The plan includes 12 strategic fuel break zones, located to take advantage of terrain features, natural and man-made low fuel areas, and to cut major fire movement paths. B: Wildlife Habitat enhancement. The south valley planning area contains three ecological zones of moderately steep to steep south-west facing slopes

	with a hot dry micro-climatic regime. These sites support a grassland to forest transition ecotone of scattered large trees, low shrubs, grasses and herbs that is typical of dryer biogeoclimatic zones, and not common in the surrounding landscape. This provides a unique habitat in the landscape for ungulates, small mammals, reptiles and birds, and is part of a regionally significant ungulate winter range area. These ecosystems were formerly maintained by a frequent fire regime, and are now threatened by forest encroachment and high fuel accumulations from live and dead regeneration. The accumulated fuel would support a very hot fire that would kill many biota, damage soils, and the ecologically valuable large trees, as well as pose an extreme treat to adjacent communities and infrastructure. Restoration proposed here is required to reduce fuel loads, reintroduce fire, and restore ecosystem health and resiliency C: Rehabilitation of low value stands and/or MPB killed stands. The valley suffered a mountain pine beetle epidemic between 2005 and 2008. Two of the Strategic Fuel Break Zones are located in beetle killed pine stands. Current replacement stands in these areas are dominated by poorly formed, off-site cedar and hemlock. The fuel management work on these sites will reduce or eliminate the low value understory, and lead to establishment of more suitable pine, larch and Douglas-fir. D. Opportunities to attain carbon benefits. Over the three-year proposed implementation of the Slocan Valley Strategic Landscape Level Wildfire Protection Plan, the planned treatments will generate over 40,000 tonnes of non-merchantable woody biomass. Using our current debris disposal methods, we estimate that 15% of this volume will be chipped and 85% of this volume will be burned. SIFCo's goal is to continue to develop our relationship with Zellstoff Celgar to reduce the tonnage of non-merchantable woody biomass that is burned by 50%.
Identify the repository for the final deliverables	FESBC; PwC and RESULTS
Utilization of Wood Fibre	
If applicable, indicate use of removed fibre or non-burning waste management practices.	No fiber will be removed from sites as part of treatments
Describe your plan for residual fibre treatment (e.g. burn, or bulldoze/chip/grind and leave to decay).	Residual fiber treatment will consist of burning and mulching, grinding and/or chipping and leave for decay wherever feasible.
Will the treatment involve broadcast burning to create plantable spots?	No

Work Standards and Development Status

Applicable Work Standards:	General Standards for Ministry Funded Programs (June 2012) RESULTS INFORMATION SUBMISSION SPECIFICATIONS Form and Manner of Reporting (Government Funded Silviculture Activities) Edition 4a May 2014
Has a variance to the above listed standards been requested?	No
If yes, please describe the variance request.	No variance is required. But due to the scale of the project, an overview work plan and maps was uploaded under "Project Description" above.
Where government work standards are not available, please upload an auditable workplan. A template can be downloaded in the application template section above.	
For reference, Ministry Activity Standards can be located at the following URL: http://www2.gov.bc.ca/gov/content/environment/natural-resource-stewardship/land-based-investment/forests-for-tomorrow. You can also find the link in the Information menu.	
First Nations information Sharing:	All First Nation sharing will happen at least 30 days prior to commencement of any activities proposed in this work plan. Over the last 9 years all of our First Nation sharing related to WUI work has been met with supportive commnets or no comments from First Nation, we expect the same results from these proposed activities.
Development Status:	All treatment units are within Community Forest Agreement K2R, held by SIFCo. SIFCo has 1 CP harvest authorization over the entire CFA landbase, which authorizes the work proposed here. Fourth block FN consultations will be completed prior to commencement of work.
If available, please upload approved prescriptions and treatment maps for this project.	
Will this project (or a part thereof) be tendered?	No
If yes, please indicate the % of the project value tendered.	

Is your company SAFE certified?	Yes
If you answered no to the above question, please describe how you will ensure safe working conditions for this project.	
Are any of the activities a legal obligation of a tenure.	No
If yes, then please explain how the project will manage the obligation separate from FESBC funding.	

Alignment with the Land Manager's Priorities.

For utilization projects submitted under Intake 5a, this section is not required.	
Explain how you have engaged with the appropriate government land manager to understand the Land Manager's priorities.	In June of 2016 we met with George Edney, Acting District Manager, Jim Guido, Resource Operations Manager and Peter Lewis, Timber Tenures Specialist and presented our Slocan Valley Strategic Landscape Level Wildfire Protection Plan. All present agreed that our Plan aligned with the districts priorities and that they were in full support. Following this meeting our initial application to FESBC was reviewed by the District and approved for inclusion in the original call for submission by FESBC in August 2016. In August 2017 we met with Garth Wiggill, Director - Strategic Initiatives and Gord Pratt, Operations Manager - FESBC, reviewed the Landscape Level Plan and toured the FESBC funded work underway at that time. Garth and Gord agreed that the overall plan and the current work aligned with FES and District priorities. In November 2017, we met with Julie Castonguay, Regional Integrated Investment Specialist and she confirmed that our current proposal fits really well within the land manager's priorities for the Kootenay Boundary Region (see correspondence attached). For the last year we have been working closely with MOFLNRO, first by co-sponsoring a Wildfire and Climate Change Conference in Nelson BC attended by over 200 delegates. In October and in November of this year we met Julie Castonguay and she recommended that we apply for this multi-year project, hoping to see this project to completion and help create a provincial example of Landscape Level Wildfire protection planning and implementation..
Describe how the project aligns with the Land Manager's strategic planning and/or integrated investment planning.	The project aligns with objectives and strategies including the Climate Change Strategy and the Wildfire Management Strategic Plan. It also addresses the Land manager's habitat restoration goals. The project also aligns with the following Land manager's strategic goals: 1. Increase ecosystem health by working collaboratively with multi-sector partner groups and First Nations to restore degraded ecosystems through activities such as invasive plant management, ecosystem restoration, remediation and best management practices. 2. Improve timber quality and supply through reforestation, forest inventory, fuel management and intensive and innovative silviculture, including implementing a new Forest Enhancement Program. 3. Improve the ability to make durable decisions on the land base that consider landscape-level conditions, climate change, and cumulative effects on key environmental, social and economic values. 4. Ensure B.C.’s natural resources and values are resilient to the impacts of climate change by embedding appropriate strategies into resource management policy and practices. 5. Ensure the safety of communities and wildfire crews by enhancing Ministry investments in wildfire prevention and mitigation strategies. 6. Strengthen public trust in natural resource management practices by promoting values-based decision making principles and engaging with stakeholders and communities.
Describe any feedback or concerns from the Land Manager.	Julie Castonguay, RPF, Regional Integrated Investment Specialist encouraged us to put forward this multi-year proposal.
Attach copies of any correspondence from the Forest District.	

Partnerships

Will this project be receiving funds from another organization?	Yes
If yes, summarize any contributions from other funding sources, including in-kind contributions.	This project is part of a greater Slocan Valley Landscape Level Wildfire Protection Plan (SVLLWPP). Although this application is specifically to FESBC to complete the work outline in the plan and therefore does not include explicitly partnership with other organizations, other aspects of the SVLLWPP have been and are funded by other organizations including: UBCM/SWPI - CBT - Village of Slocan - Village of New Denver - RDCK - Village of Silverton. SIFCo contributes on average 8% of total cost for all Type 2, Type 3 and Type 4 Projects, in this application SIFCo will contribute $43000. A partnership with the South-East Fire Center also contributes more then 50% to the prescribed burning that follows Type 4 treatments. Over the last 10 years the following organizations have contributed to different aspects of the plan: Columbia Basin Trust: $95,000 UBCM/SWPI: $1,700,000 SIFCo: $175,000 FESBC: $1,425,000 FIA: $76,000 RDCK: $15,000 Village of Slocan: $20,000 Village of Silverton: $42,000 Village of New Denver: $17,000 In-Kind contribution from Community: $26,000 Job Opportunities program: $570,000 The approval of this application would complete the plan and simultaneously help protect these earlier investments.
If applicable, describe how the project will coordinate with FFT or other initiatives within the Timber Supply Area.	SIFCo's conversations with FLNRORD staff at all levels, Regional District staff, and other practitioners indicates there is a broad consensus that fuel management and climate change adaptation work in lower elevation forests adjacent to communities it a very high priority. There is also a greater and greater consensus that Landscape Level planning is the way to address the scope of the WUI issue. We expect this consensus to be reflected in official initiatives and plans in the near future and SIFCo will continue to be involved at all levels.
Describe any partnerships with another organization or agency?	see above
Please upload any correspondence or supporting documentation.	
Is this a First Nations Organization?	No
Indicate if this proposal is being submitted on behalf of another organization. If so, then identify the organization and the proposed role of each organization for implementing the project.	N/A
Indicate if the intended delivery of the project(s) will involve one or more other organizations. If so, then identify the organization(s) and the proposed role of each organization for implementing the project.	All implementation will be done by SIFCo

Road Construction and Road Upgrades

Road Construction, including Road Upgrades	
Planned Road Construction Length (km)	N/A
Planned Road Construction Width (m; if >20m)	N/A
Biomass removed and burned from ROW (tonnes)	
Road Deactivation	
Will the road be reforested following deactivation?	
Planned Road Deactivation Length (km)	
Planned Road Deactivation Width (m)	
Please attach road development plan/ deactivation plan/ planting prescriptions	

Summary Report Attachments

Summary Reports	

Project Cost And Funding

Total Project Funds

Total Funds Contributed by the Proponent	Total Funds Requested from the Program

$0.00	$1163765.00

Planned milestone & task

	2020/21	2021/22	Total
Output Category			
Number of Treatment Sites	8.00	6.00	**14.00**
Treatment Area (ha)	152.60	170.80	**323.40**

Funds Requested from FESBC

	2020/21	2021/22	Total
Start Date	04/01/2020	04/01/2021	
End Date	03/31/2021	03/31/2022	
Cost Category			
Material	$27384.00	$23660.00	**$51,044.00**
Recipient Labour	$283271.00	$306877.00	**$590,148.00**
Contracted Material/ Labour	$77550.00	$62700.00	**$140,250.00**
Equipment Charges	$90310.00	$94873.00	**$185,183.00**
Project Supervision/ QA	$45000.00	$37800.00	**$82,800.00**
Administration	$57040.00	$57300.00	**$114,340.00**
Total	$580,555.00	$583,210.00	**$1,163,765.00**

Sources of Cash Funding *

Source Type	Name of Organization	Status	Amount
Proponent Contribution	SIFCO	Confirmed	$43,000.00
Amount Applied For	FESBC	Applied For	$1,163,765.00
		Total:	**$1,206,765.00**

Project Cost by Task

Activity *	Start Date	End Date	Funds Requested from FESBC	Funds contributed by Applicant	Funds from Other Sources	Total
SFB2N-8	04/01/2020	04/24/2020	$60,900.00	$0.00	$0.00	$60,900.00
SFB3S -23	04/27/2020	06/30/2020	$163,100.00	$0.00	$0.00	$163,100.00
SFB5S-25	05/01/2020	11/15/2020	$59,665.00	$5,000.00	$0.00	$64,665.00
SFB7S-20	06/01/2020	10/16/2020	$59,000.00	$5,000.00	$0.00	$64,000.00
SFB4S-11	10/09/2020	11/15/2020	$79,800.00	$0.00	$0.00	$79,800.00
SFB7S-14	07/06/2020	07/15/2020	$11,200.00	$0.00	$0.00	$11,200.00
SFB2N-23	09/14/2020	12/18/2020	$68,440.00	$5,500.00	$0.00	$73,940.00
SFB4S-27	10/19/2020	12/14/2020	$78,450.00	$6,500.00	$0.00	$84,950.00
SFB5S-24	04/01/2021	06/10/2021	$172,200.00	$0.00	$0.00	$172,200.00
SFB3N-75	05/03/2021	12/17/2021	$205,975.00	$16,500.00	$0.00	$222,475.00

SFB3S-13	06/11/2021	11/01/2021	$91,000.00	$0.00	$0.00	$91,000.00
SFB7S-34	06/25/2021	07/20/2021	$27,520.00	$0.00	$0.00	$27,520.00
SFB3N-5	10/15/2021	10/31/2021	$34,075.00	$0.00	$0.00	$34,075.00
SFB1S-19	10/25/2021	12/17/2021	$52,440.00	$4,500.00	$0.00	$56,940.00
					Total:	**$1,206,765.00**

Project Status

Project Status

FP status:	FP Received

Change History

Change History

Change History

FP Status	User	Date
Draft FP	Stephan Martineau	11/08/2018 02:25:58 PM
Draft FP	Stephan Martineau	11/08/2018 02:26:04 PM
Draft FP	Stephan Martineau	11/08/2018 02:29:00 PM
Draft FP	Stephan Martineau	11/09/2018 02:32:02 PM
Draft FP	Stephan Martineau	11/09/2018 03:17:02 PM
Draft FP	Stephan Martineau	11/09/2018 03:22:01 PM
Draft FP	Stephan Martineau	11/09/2018 03:23:48 PM
Draft FP	Stephan Martineau	11/09/2018 04:08:59 PM
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FP Submitted	Stephan Martineau	11/27/2018 12:20:04 PM