

COUNCIL AGENDA/INFORMATION			
<input type="checkbox"/> In Camera	Date: _____	Item # _____	
<input type="checkbox"/> Regular	Date: _____	Item # _____	
<input type="checkbox"/> Agenda Addendum	Date: _____	Item# _____	
<input type="checkbox"/> Info Package	_____	_____	
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WK		<i>AF</i> CAO
Dept. Manager	GM/ Director	

## The District of North Vancouver REPORT TO COUNCIL

October 2, 2019

File:

**AUTHOR:** Haida Fortier - Assistant Fire Chief Public Safety  
Brian Hutchinson - Fire Chief

**SUBJECT:** 2020 Community Resiliency Investment Program Grant

### RECOMMENDATION:

THAT Council support the 2020 Community Resiliency Investment (CRI) Program Grant Application entitled "District of North Vancouver Fire Rescue Services (DNVFRS) FireSmart Community Risk Reduction and Resiliency Initiatives Program".

### REASONS FOR REPORT:

To update Council on the CRI Program Grant Application that has been prepared in collaboration between the DNVFRS and the Environmental Sustainability (Operations) section; based on the Community Wildfire Protection Plan (CWPP) Update. A Council resolution is required to support the 2020 CRI Program Grant Application.

### BACKGROUND:

As introduced by the Union of BC Municipalities (UBCM), the 2020 "CRI Program is intended to reduce the risk of wildfire to communities in BC through community funding, supports and priority fuel management on Crown land. The program was launched in 2018 and more than 120 First Nations and local governments have received funding." FireSmart principles, public education, inter-agency emergency planning and exercising, training and fuel treatment are all key proposed activities. The 2020 CRI grant application requires the applicant to have a CWPP that supports the application, as well, for the grant itself to be supported by Council Resolution. Council endorsed a new CWPP Update on October 7, 2019. This grant specifically helps to advance the following initiatives identified in the CWPP Update:

- Establishment of a Wildfire Development Permit Area, that requires new buildings to comply with FireSmart, National Fire Protection Association (NFPA), and District-developed standards for non-flammable building envelope materials;

- Forest Silviculture Prescription development for approximately 72.4ha and fuel treatment on approximately 57ha of land surrounding the community;
- Provision of specialized training to local fire department and DNV staff for Interface Fire Response; and
- Development of a forest health strategy to address issues associated with dwarf mistletoe infected western hemlock.

### **TIMING/APPROVAL PROCESS**

The 2020 CRI Grant Application has also been pre-reviewed by Tony Botica, Wildfire Prevention Officer – Coastal Fire Centre, BC Wildfire Services; as is required as part of the application process. The Application together with a copy of the CWPP Update and the Council Resolution deadline is October 18, 2019.

### **CONCURRENCE**

The following DNV departments and external stakeholders have reviewed and concur with the report: DNV Environmental Sustainability (Operations), Fire & Rescue Services, Finance and North Shore Emergency Management.

### **FINANCIAL IMPACTS**

The 2020 CRI Grant Application provides additional resources for program administration, development, and delivery as represented in the Fire Department Operations Budget for 2020. The Environment Sustainability (Operations) section would continue with Fuel Mitigation projects on lands within the DNV. Related costs of \$122,241.00 will be 100% funded through the CRI Grant Program.

### **LIABILITY/RISK**

The Application supports completion of recommendations outlined in the current CWPP Update, which reduces liability by demonstrating an ongoing work plan and commitment to wildfire risk reduction.

### **COMMUNICATION AND EDUCATION**

Wildfire hazard maps and the Wildfire Protection DPA maps are available on GeoWeb in the Hazards application, along with public access to the CWPP and FireSmart educational information via the DNV website at <http://www.dnv.org/programs-services/community-wildfire-protection-plan>.

### **SOCIAL POLICY IMPLICATIONS**

Understanding, communicating and managing wildfire risk is integrated with community values of recreation, environmental protection, public safety and sustainability.

### **ENVIRONMENTAL IMPACT**

Fuel treatment projects have already demonstrated the ecosystem restoration benefits coupled with wildfire risk reduction. Ongoing fuel treatment with subsequent replanting will increase our community safety from wildfire risk while restoring forests to a healthier condition.

**CONCLUSION**

The DNV has been very successful to date with wildfire mitigation measures resulting from the collaboration, creativity, leveraging of external funding opportunities and community support. The DNV has a demonstrated capacity to continue to build resilience in our urban interface and in our forests that protect people, infrastructure, environmental and recreational assets from wildfire hazard. We continue to provide a regional leadership role in the assessment, mitigation and preparation of wildland-urban interface wildfire response planning.

Respectfully submitted,



Haida Fortier – Assistant Fire Chief Public Safety

Brian Hutchinson – Fire Chief

**Attachments:**

1. CRI Application Form (eDoc#4062687)
2. CRI Worksheets 1: 2020 Community Resiliency Investment Program FireSmart Community Funding & Supports (eDoc #4062688)
3. CRI Worksheet 2: Fuel Management Prescription Development (eDoc #4098728)
4. CWPP Update Wildland Urban Interface (WUI) Fire Risk Management Update (eDoc #4129268) **\*not included**

REVIEWED WITH:		
<input type="checkbox"/> Sustainable Community Dev.	_____	
<input checked="" type="checkbox"/> Development Services	DM	
<input type="checkbox"/> Utilities	_____	
<input type="checkbox"/> Engineering Operations	_____	
<input type="checkbox"/> Parks	_____	
<input checked="" type="checkbox"/> Environment	RB	
<input type="checkbox"/> Facilities	_____	
<input type="checkbox"/> Human Resources	_____	
<input type="checkbox"/> Clerk's Office	_____	
<input type="checkbox"/> Communications	_____	
<input checked="" type="checkbox"/> Finance	RD	
<input checked="" type="checkbox"/> Fire Services	WK	
<input type="checkbox"/> ITS	_____	
<input type="checkbox"/> Solicitor	_____	
<input type="checkbox"/> GIS	_____	
<input type="checkbox"/> Real Estate	_____	
External Agencies:		
<input type="checkbox"/> Library Board	_____	
<input type="checkbox"/> NS Health	_____	
<input type="checkbox"/> RCMP	_____	
<input type="checkbox"/> NVRC	_____	
<input type="checkbox"/> Museum & Arch.	_____	
<input checked="" type="checkbox"/> NSEM:	FD	

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## 2020 Community Resiliency Investment Program

### FireSmart Community Funding & Supports

### Application Form

Please complete and return the application form and all required attachments by October 18, 2019.

All questions are required to be answered by typing directly in this form. If you have any questions, contact [cri-swpi@ubcm.ca](mailto:cri-swpi@ubcm.ca) or (250) 356-2947.

<b>SECTION 1: Applicant Information</b>	<b>CRI-</b> <span style="float: right;"><i>(administrative use only)</i></span>
Name of Local Government or First Nation: District of North Vancouver Fire & Rescue Services (DNVFRS)	Complete Mailing Address: 1110 Lynn Valley Road North Vancouver, BC V7J 1Z9
Contact Person: Haida Fortier	Position: Assistant Fire Chief - Public Safety
Phone: 604-990-3668	E-mail: <a href="mailto:fortierh@dnv.org">fortierh@dnv.org</a>

\* Contact person must be an authorized representative of the applicant.

<b>SECTION 2: For <u>Regional Projects Only</u></b>
<p><b>1. Identification of Partnering Communities.</b> For all regional projects, please list all of the partnering eligible applicants included in this application. Refer to Section 3 in the Program &amp; Application Guide for eligibility.</p> <p>N/a</p>
<p><b>2. Rationale for Regional Projects.</b> Please provide a rationale for submitting a regional application and describe how this approach will support cost-efficiencies in the total grant request.</p> <p>N/a</p>

<b>SECTION 3: Project Summary</b>
<p><b>3. Name of the Project:</b></p> <p>DNVFRS FireSmart Community Risk Reduction and Resiliency Initiatives Program</p> <p>DNV Fuel Fuel Management Prescription Development</p>

**4. Project Summary.** Please provide a summary of your project in 150 words or less.

DNVFRS is committed to reducing the risk and impact of wildfire in our community through enhancing our planning, preparedness, response and recovery capabilities. Working together with staff from throughout our municipality as well as our inter-agency partners, we will continue to mitigate our risks through planning a wildfire exercise, further development of education and outreach programs, supporting additional community groups to become FireSmart communities, and supporting additional wildland fire training.

The new Community Wildfire Protection Plan (CWPP) Update was adopted by Council on October 7, 2019. The CWPP Update Recommendation #12 is to "proceed with detailed assessment, prescription development, and treatment of hazardous units identified and prioritized in this CWPP". Summary rational for each PTU in CWPP Update page 63 Table 15 Proposed Treatment Area Summary Table. Section 4. Wildfire Threat and Risk summarizes the factors that contribute to and were assessed in the determination of wildfire threat around the community. CWPP Update page 63 Table 15 Proposed Treatment Area Summary Table for area descriptions PTU 1 and 3 and Map 11 Proposed and Past Treatments page 69 details locations. These 2 treatment areas total 26.4ha and are identified as High Risk priority interface areas on DNV land close to houses. The CWPP Update align and support this CRI Grant Submission.

**5. Fire Centre (use check boxes).** Indicate which Fire Centre the proposed activities are located in (check all that apply)

- ☐ Cariboo Fire Centre
- ☒ Coastal Fire Centre
- ☐ Kamloops Fire Centre

- ☐ Northwest Fire Centre
- ☐ Prince George Fire Centre
- ☐ Southeast Fire Centre

**6. Project Cost & Grant Request:**

Total Project Cost: \$170,191.00

Total Grant Request (as identified in Worksheet 1): \$122,241.00

Have you applied for or received funding for this project from other sources? If yes, please provide details below.

n/a

NOTE: Total project cost includes planned social media and training as outlined in Part 1 "Education" and in Part 6 "Cross Training". In kind projects supported by DNVFRS have been described in the application. A total of \$47,950 is included in the project cost but is not part of the grant request.

**7. Progress to Date.** If you were approved for funding under the 2019 FireSmart Community Funding & Supports program, please describe the activities that have been completed to date and/or what activities your community will be undertaking to increase resiliency.

Most of the Fuel Management Treatments in the Urban Interface were completed in 2019. The Braemar/Dempsey and Carmaria treatment areas under the 2019 funding agreement are programmed to be completed winter 2019/20.

DNVFRS began FireSmart initiatives in 2018 and 2019: Construction Interface Protocols for work in the Wildfire Hazard Development Permit Area (DPA), FireSmart Door Hanger Program, website development, training of two Local FireSmart Representatives (LFRs), Community Workshop, and three (3) pilot project/assessments by LFRs for FireSmart Community Recognition. This grant will help us to move all of these initiatives forward including training

additional fire service members in wildfire fighting, and testing our abilities through a 2020 interagency wildfire exercise.

#### **SECTION 4: Requirements for Funding** (refer Section 4 of Program & Application Guide)

- 8. Engagement Prior to Submitting an Application.** In order to qualify for funding, applicants must demonstrate their level of engagement with a BCWS Wildfire Prevention Officer, FNESS Fuel Management Liaison/Specialist, and, if applicable, the FLNRORD district, region, or relevant Land Manager to ensure project alignment with Land Manager priorities.

Please indicate the name(s) and title(s) of the person(s) you engaged with and describe the extent of that engagement.

Tony Botica, Wildfire Prevention Officer - Coastal Fire Centre

BC Wildfire Services

250-951-4262

250-927-3311 Cell

tony.botica@gov.bc.ca

- 9. Acceptable Plan.** In order to qualify for funding, applicants must have a current and acceptable plan that includes assessment and identification of FireSmart and/or fuel management priorities (i.e. CWPP, Community Wildfire Resiliency Plan, Integrated Investment Plan, etc.).

Please outline how your community meets this requirement. Note: applicants that do not have a current and acceptable plan may apply to develop or update a plan.

District of North Vancouver Community Wildfire Protection Plan Update (adopted by Council October 7, 2019 DRAFT attached)

District of North Vancouver Community Wildfire Protection Plan 2007 - Complete (<https://www.dnv.org/programs-services/community-wildfire-protection-plan>)

*Attach completed plans, assessments, and/or excerpts from higher-level plans, with the application form.*

#### **SECTION 5: Wildfire Risk & Rationale**

- 10. A. WUI Wildfire Risk Class.** What is the WUI Risk Class (1 – 5) for the general area of interest of your community or proposed activities, including the WUI polygon name from risk class map? Refer to Appendix 1 of the Program & Application Guide.

WUI Polygon - Map Grid 92G\_SW. Refer to 10.B for justification of High and Extreme WUI Wildfire Risk Class based on Threat Plots from CWPP.

DNV has approximately 10,000 homes in the Wildfire Hazard DPA. The majority of these homes are adjacent to forested areas classified at (5) moderate. The DNV has homes within its municipal boundary that are boat access only, or, have restricted egress routes through (5) moderate classified forested areas. There are also Fire Limit Areas with limited access to fire



suppression water (Section 6.1.2). Classification increases to (6) moderate in some forested areas.

**B.** If local assessments provide additional evidence of higher wildfire risk than the WUI Risk Class, provide specific evidence of wildfire risk (reference to appropriate section of a CWPP or other plan, etc.)

The CWPP Update Appendix E plots locations that field work was undertaken to summarize the Wildland Urban Interface threat. Ratings were applied for Wildfire Behaviour Threat from Low to Extreme, as well, Wildland Urban Interface Threat from Low to Extreme. Based on this assessment, there are multiple areas in the DNV that are classed as High and Extreme.

Excerpt from Appendix E - WUI Threat Plot Locations

WUI Plot#	Geographic Location	Wildfire Behaviour	WUI Threat Class
		Threat Class	
ALBA-1	Upper Delbrook	High	High
CART-1	McCartney Woods	High	Extreme
CART-2	McCartney Woods	High	Extreme
CLIF-1	Cliffwood	High	Extreme
GROUS-2	Grousewoods	High	High
GROUS-3	Grousewoods	High	High
GROUS-4	Grousewoods	High	High
HALL-1	Delbrook	High	Extreme
PARK-1	Parkgate	High	High
SKY-1	Upper Delbrook	High	High
SKY-2	Upper Delbrook	High	Extreme

The local wildfire threat assessment (CWPP 4.3) prioritized locations based on PSTA WTA class, proximity to values at risk, prevailing fire season winds, slope position o value, land ownership, local knowledge, and observations. A total of 41 threat plots were completed (Appendix E). Over 26% of the plots are rated high and/or extreme for wildifre behaviour and wildfire threat.

Section 4. Wildfire Threat and Risk summarizes the factors that contribute to and were assessed in the determination of wildfire threat around the community. These factors include the natural fire regime and ecology, the Provincial Strategic Threat Analysis, and the local wildfire risk analysis completed for the AOI.

Critical infrastructure assessments (CWPP Table 3) are key consequences to be considered. Access and evacuation are also key concerns addressed in the CWPP Update Page 92-95. FireSmart priority areas have been identified in the CWPP Update (Table 17).

As outlined in CWPP Section 5, proactively developing a risk mitigation strategy aims to increase resiliency of our community with a goal towards reducing our risks from extreme to high/medium, and from high to medium. The strategic recommendations in the CWPP align with the CRI Grant request for: FireSmart approach to reduce fire risk in the community through education, assessments, emergency planning, cross training, and demonstration project aligns with recommendations in CWPP Updated (Table 1).



*Additional evidence for higher wildfire risk (e.g. CWPP extract, copies of assessments, etc.) is required to be submitted with the application form.*

**C.** For the purpose of FireSmart Community Funding & Supports grants, identify the risk category that you are applying under:

☐ Lower risk of wildfire (may apply for a grant of up to \$25,000)

☒ Higher risk of wildfire (may apply for a grant of up to/exceeding \$150,000)

- 11. Other Rationale.** What other rationale or evidence is there for undertaking the proposed project? This may include local hazards identified in the Emergency Plan; threat levels identified in Hazard Risk & Vulnerability Analysis and/or other risk assessments; demonstrated history of repeated and/or significant interface wildfires and evacuations; or other rationale.

DNV Climate Change Adaption Strategy July 2019 (<https://www.dnv.org/programs-and-services/climate-change-adaptation-strategy>) identified wildfire as one of the primary risks to the community. Required Action 3.2 states "remaining (CWPP) recommendations should be implemented".

*Evidence of other rationale (e.g. Local Authority Emergency Plan extract, copies of assessments, etc.) is required to be submitted with the application form.*

## **SECTION 6: Detailed Project Information**

- 12. Proposed Activities.** Please refer to Section 6 of the Program & Application Guide for eligibility and complete Worksheet 1: Proposed Activities & Cost-Estimate. Worksheet 1 is required to be completed for all applications.

- 13. Increasing Resiliency.** Please indicate how the proposed project will increase community resiliency by undertaking community-based FireSmart planning and activities that reduce the community's risk from wildfire.

Since 2011 DNVFRS responded to an average of 238 wildland and structure fire incidents. An average of 49 were wildland (brush) fires (DNV CWPP Update - Page 88). The geographic area of the North Shore had wildfires in 2018 and 2019.

DNV has approximately 10,000 homes in the Wildfire Hazard DPA. The majority of these homes are adjacent to forested areas classified at (5) moderate. The DNV has homes within its municipal boundary that are boat access only or, are have restricted egress routes through (5) moderate classified forested areas. Classification increases to (6) moderate in some areas.

DNVFRS will be advancing FireSmart Community recognition programs (currently piloting three local neighbourhood projects for Community FireSmart recognition with LFRs), education and outreach through Community Workshops and FireSmart Wildfire Preparedness Event, expanding and strengthening risk reduction initiatives such as Construction Interface Protocols, providing depth to social media and web information, as well, continuing to work with our First Nations partners and shared service partners on the North Shore to share our experiences, successes, and bring our region forward collaboratively.

- 14. Partnerships & Collaboration.** Please identify any other authorities you will collaborate with on the proposed project (e.g. community or resident organizations, First Nation or Indigenous organizations or other local governments) and outline how you intend to work together.

DNVFRS will be collaborating with our shared service partners on the North Shore including the District of West Vancouver, City of North Vancouver, Tsleil Waututh, Squamish Nation, and Metro Vancouver. Information sharing and innovation is generated on a weekly basis during the

summer season between all partners including North Shore Emergency Management, Communications and Engineering, Parks & Environment.

A Wildfire exercise will be planned for 2020 and include all of our collaborative partners. It is anticipated that the exercise would involve activation of the Emergency Operations Centre (EOC), the Fire Department Operations Centre (DOC), Engineering DOCs, and require the support resources of BC Wildfire/Metro Vancouver, and air support. Planning, resource capacity and timeliness, and communications will all be tested and lesson learned incorporated into response plans.

**15. Additional Information.** Please share any other information you think may help support your submission.

DNVFRS recognizes the risk that is posed due to wildfire and has been diligently moving forward to plans, prepare, respond to and recover from wildfire. Resiliency has been increasing during the last few years, however, 2020 and Grant support will provide us with a capability that will align with our capacity to leap forward with our FireSmart initiatives and support our community through provision of resources and support to understand how to capitalize on the resources that are available to reduce the risks on private properties.

## SECTION 7: Application Check List

Required Submissions	Related Attachments
<input checked="" type="checkbox"/> Application Form	<input checked="" type="checkbox"/> Completed plans, and/or assessments, or excerpts from higher-level plans as required in Q. 9 <input checked="" type="checkbox"/> Other rationale as required in Q. 10 and 11
<input checked="" type="checkbox"/> Completed Worksheet 1: Proposed Activities & Budget	<input type="checkbox"/> FireSmart Assessments for structures proposed for demonstration projects as required in Q. 7
<input checked="" type="checkbox"/> <u>For fuels management activities only:</u> Completed Worksheet 2: Proposed Fuel Management Activities	<input checked="" type="checkbox"/> PDF map outlining the area of interest, proposed treatments units, land status and tenure overlaps <input checked="" type="checkbox"/> Wildfire threat assessment information for the proposed treatment unit(s) <input type="checkbox"/> <u>For fuel management treatment only</u> , a copy of the completed prescription and/or Burn Plan and project boundary spatial layer <input type="checkbox"/> For fuel management treatment on Provincial Crown land only: email from land manager indicating information sharing with First Nations has been completed
<input type="checkbox"/> Council, Board or Band Council resolution, indicating support for the current proposed activities and willingness to provide overall grant management	
<input type="checkbox"/> <u>For regional projects only:</u> Council, Board or Band Council resolution, from	

each partnering community that clearly states approval for the applicant to apply for, receive and manage the grant funding on their behalf

Submit the completed Application Form and all required attachments as e-mail attachments to [cri-swpi@ubcm.ca](mailto:cri-swpi@ubcm.ca) and note "2020 CRI" in the subject line. Submit your application as either a Word or PDF file(s). If you submit by e-mail, hardcopies and/or additional copies of the application are not required.

**SECTION 8: Signature.** Applications are required to be signed by an authorized representative of the applicant. Please note all application materials will be shared with the Province of BC and the BC FireSmart Committee.

I certify that: (1) to the best of my knowledge, all information is accurate and (2) the area covered by the approved project is within the applicant's jurisdiction (or appropriate approvals are in place)

Name: Haida Fortier

Title: Assistant Fire Chief - Public Safety

Signature: Haida Fortier



Date: October 15, 2019

*An electronic or original signature is required.*

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# 2020 Community Resiliency Investment Program

## FireSmart Community Funding & Supports

### Worksheet 1: Proposed Activities & Cost-Estimate

This worksheet is required to be completed for all applications.

Please complete and return the worksheet with the full FireSmart Community Funding & Supports application package. If you have any questions, contact [cri-swpi@ubcm.ca](mailto:cri-swpi@ubcm.ca) or (250) 356-2947.

#### **Instructions:**

In Section 2 below, indicate the proposed activities, cost-estimate, outcomes and performance measures for each of the eligible activities (as identified in Table 1 of Section 6 of the Program & Application Guide) that you plan to undertake.

**Cost Estimate:** Provide a cost estimate for each proposed activity. Include information on how cost estimates were developed (i.e. estimated days of work, hourly/daily rates and types of equipment and estimated hours of use). In cases where other contributions are included for proposed activities, please clearly distinguish between the requested grant amount and other contributions, including in-kind contributions. Detailed cost estimates may be requested.

**Proposed Outcomes:** Provide information on the expected outcome of each proposed activity and list any policies, practices, plans or documents that will be developed or amended as a result of your project. As noted in the Program & Application Guide, higher application review scores will be given to projects that clearly increase community resiliency by undertaking community-based FireSmart planning and activities that reduce the community's risk from wildfire.

**Proposed Performance Measures:** Indicate how the proposed activities will be evaluated, including the specific performance measures that will be used.

## Worksheet 1: Proposed Activities & Cost Estimates

SECTION 1: Applicant Information	CRI- (for administrative use only)
Name of Local Government or First Nation: District of North Vancouver Fire & Rescue Services	Name of Project: DNVFRS FireSmart Community Risk Reduction and Resiliency Initiatives Program

### SECTION 2: Proposed Activities

#### 1. Education

Proposed Activities	Cost Estimate/Calculation	Proposed Outcomes	Performance Measures
FireSmart educational activities and tools: Demo Kit and New Fire Danger Community Signage and Social Media Educational Program	16 signs x \$2000 = \$32000	Demo Kit and New community fire safety signage aligning community mitigation messaging across the North Shore with multiple agencies, including a social media/education program	Alignment across North Shore municipalities including First Nations partners, and Metro Vancouver CWPP Item #22 "develop a social media strategy and ensure that its full power is leveraged..."
Education for the reduction of human-caused fires: Social Media	In-house	Identify gaps and provide additional resources	Additional tested media messaging and web content CWPP Item #6, 14, 20, 22, 32, "...develop a social media strategy...FireSmart..."
Wildfire Community Preparedness Day: Community Workshop	2 staff x 1 day x \$500 = \$1000 Presentation Materials = \$2000	Identify gaps and provide additional resources	CWPP Item #6, 14, 20, 23, 28, 32 "...promote FireSmart...Town Hall meetings, workshops, and/or presentations."
FireSmart day, events and workshops, and wildfire	5 Staff x 2 days x \$500 = \$5000	Test Structure Protection Unit (SPU) deployment, education	Community attendance, media coverage and target 3 pilot



season open houses: Pre-Season Wildfire Open House and Door Hanger Program		and outreach in an at risk community, and demo of NS resources	projects within the WUI, for FireSmart Canada Community Recognition CWPP Item #23, 24, 27, 28, 31, 32 "...door-to-door distribution of FireSmart"
FireSmart Canada Community Recognition: 3 Pilot Projects	3 Staff x 4 days x \$500 = \$6000	Support FireSmart Community program	Target 3 pilot projects within the WUI for FireSmart Recognized communities CWPP Item #18, 26 "work towards FireSmart community recognition..."
Other:			

*Example performance measures: target attendance and/or number of hours at educational activities, Wildfire Community Preparedness Day and any FireSmart events; estimated completion date of application for FireSmart Canada Community Recognition.*

## 2. Planning

*For plans, include the number of hectares that threat assessments will be completed for. Refer to Appendix 4 for map and spatial data requirements for CWPPs. The new community wildfire resiliency planning framework is expected to be implemented by spring 2020 and will be linked directly to Crown land planning activities led by the Ministry of Forests, Lands, Natural Resource Operations and Rural Development, and BC Parks.*

Proposed Activities	Cost Estimate/Calculation	Proposed Outcomes	Performance Measures
Develop or update an existing plan (i.e. CWPP):			
Develop policies/practices for FireSmart First Nations land or publicly owned land:			
Develop policies/practices for FireSmart First Nations owned buildings and publicly owned buildings:			

Conduct site visits/FireSmart assessments for First Nations owned buildings, publicly owned buildings or publicly, provincially and First Nations owned critical infrastructure: FireSmart Assessments starting with critical infrastructure; Fire Department and Municipal Buildings	6 Staff x 4 days x \$500 =\$12000	DNV FireSmart critical infrastructure starting with Fire Department Buildings then other municipal owned structures	Leading by example by assessing and making FireSmart improvements CWPP Item #10, and 25 "LFRs to complete FireSmart assessments of critical infrastructure...as identified in CWPP Table 3..."
Other:			

*Example performance measures: list of policies and plans that are proposed for review and/or amendment; target for number of completed assessments.*

### 3. Development Considerations

Proposed Activities	Cost Estimate/Calculation	Proposed Outcomes	Performance Measures
Amend OCPs, Comprehensive Community Plans and/or bylaws:			
Revise landscaping requirements:			
Establish Development Permit Areas for Wildfire Hazard:			
Include wildfire prevention and suppression considerations in the design of subdivisions:			
Amend referral processes for new developments to ensure multiple departments are included:			

Other:			
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*Example performance measures: list of plans or development requirements that are proposed for review and/or amendment; number and location of target areas for development permit areas.*

#### 4. Interagency Co-operation

Proposed Activities	Cost Estimate/Calculation	Proposed Outcomes	Performance Measures
Regional FireSmart committees: North Shore FireSmart Community	2 Staff x 6 days x \$500 = \$6000	Regional Planning Group annual meeting to align Community Risk Reduction and Targeted Education with regards to Wildfire and FireSmart initiatives.	Alignment of FireSmart messaging and potential programs across the North Shore  CWPP Item #30, 32, 49, 50 "...coordinate and facilitate engagement with all key stakeholders...collaborative solutions..."
Multi-agency fire and/or fuel management tables:			
Other:			

*Example performance measures: estimated meeting frequency and attendance at committee meetings or fuel management tables.*

#### 5. Emergency Planning

Proposed Activities	Cost Estimate/Calculation	Proposed Outcomes	Performance Measures
Cross-jurisdictional meetings and tabletop exercises, including seasonal wildfire readiness meetings: Multi-site Real-time Inter-agency Wildfire Exercise; testing readiness and response, and communications	2 staff x 2 days x \$500 = \$2000 (pre-planning) 20 Staff x 1 day x \$500 = \$10000	Test interagency readiness and response to a wildfire event. Exercise to include activation of EOC, DOCs, Extended Operations Unit, SPU, BC Wildfire/Metro Vancouver support, and Communications.	Timelines for resource response including on duty resources and mutual aid and support services.  CWPP Item #31, 47, 48 "interface training...joint wildland fire and risks inherent with natural areas."
Review structural protection capacity: Structural Protection	4 staff x 2 days x \$500 = \$4000	Test readiness and response in restricted access/egress	Function of a water curtain and a change in the relative

Unit deployment in Woodlands as part of inter-agency wildfire exercise and community outreach event		area, demonstrate SPU to community and engage in FireSmart education	humidity of the area. plan together with FireSmart Community Outreach event CWPP Item #31, 47, 48 "...interface training program".
Other:			

*Example performance measures: estimated meeting frequency and attendance at meetings and exercises.*

## 6. Cross Training

Proposed Activities	Cost Estimate/Calculation	Proposed Outcomes	Performance Measures
FireSmart training	5 staff x 2 days x \$500 = \$5000	Increased capacity for community assessments and FireSmart community recognition. All 7 Public Safety staff will be trained LFRs increasing our capacity to perform assessments.	Recognition by FireSmart BC CWPP Item #18, #26, #27, #28 "...maintain Local FireSmart Representatives on staff..."
Local FireSmart Representative: 5	As Above	As above	As above
Home Partners:			
FireSmart 101:			
Community Champions training:			
Cross-train fire department members			
S-100 Basic fire suppression and safety: Train Municipal Employees	2 staff x 4 days x \$500 = \$4000	Increase response capacity by training municipal employees as an Extended Operations Unit (EOU) for fires that require sustained action	27 municipal employees training by 2 Fire Department Instructors to S-100 CWPP Item #49 "...expand training program to maintain..."

			education and training specific to interface and wildland fires."
S-185 Fire entrapment avoidance and safety:			
ICS-100 (volunteer only):			
Cross-train emergency management personnel			
ICS-100: Train Municipal Employees	2 staff x 4 days x \$500 - \$4000	Increase response capacity by training municipal employees as an Extended Operations Unit (EOU) for fires that require sustained action	27 municipal employees training by 2 Fire Department Instructors to ICS-100 CWPP Item #49 "...expand training program to maintain...education and training specific to interface and wildland fires."
Professional development to increase capacity for FireSmart activities:			
Other: NOT INCLUDED IN GRANT/IN-HOUSE TRAINING:			
- WSPP-115 Training	25 Staff x 2 days x \$650 = \$32500	Increase response capabilities of on duty members by 60% in 2020	Number of wildfire trained firefighter to be 87 by end of 2020 CWPP Item #48
- Approved BCWS Training to S-211, S-212, S-213, S-230, S-235, S-241, WFX-FIT	12 staff x 2 days x \$500 - \$12000	Enhanced response inter-operability with Metro Vancouver Watershed Protection Initial Attack and BCWS Initial Attack	12 fire fighters trained to meet qualifications equal to BCWS Type-II Initial Attack CWPP Item #48
- WSPP-WFF 1	6 staff x 1 day x \$575 - \$3450	Train/trainer	CWPP Item #48

Example performance measures: estimated training frequency and attendance; list of professional development opportunities.

## 7. FireSmart Demonstration Projects

To be eligible for funding, all FireSmart Demonstration projects must have a completed FireSmart assessment at the time of application submission, and include a community education component. In addition, for First Nations or publicly owned buildings, the proposed building must be designated for emergency response, such as an Emergency Operations Centre or Emergency Support Services facility (i.e. reception centre, group lodging).

Proposed Activities	Cost Estimate/Calculation	Proposed Outcomes	Performance Measures
FireSmart Demonstration Projects for First Nations owned buildings or publicly owned buildings: FireSmart Demonstration Project Planning for New Maplewood Fire Rescue Centre (enhance critical infrastructure)	\$20,000 (consultant design work)	Dedicated area on the property to demonstrate FireSmart practices, landscaping by "undertaking vegetation management aligning with FireSmart Guide to Landscaping".	Engage community on municipal property to highlight FireSmart program and enhance critical infrastructure  CWPP Item #25 "...used new Fire Centre...demonstrate...building materials...FireSmart landscaping..."
FireSmart Demonstration Projects for publicly, provincially and First Nations owned critical infrastructure:			
Other:			

Example performance measures: the extent to which the recommendations in the FireSmart assessment will be achieved; the degree to which the hazard level will be reduced for the structure; the number of people informed by the required community education component.

## 8. FireSmart Activities for Residential Areas

To be eligible for funding, all FireSmart activities for residential areas must be located in FireSmart Noncombustible Zone and Priority Zones 1, 2 and 3. Refer to Appendix 2 in the Program & Application Guide for funding requirements for FireSmart rebate programs.

Proposed Activities	Cost Estimate/Calculation	Proposed Outcomes	Performance Measures
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Planning for residential areas:			
Offer local rebate programs:			
Provide off-site debris disposal:			
Other:			

*Example performance measures: target for completed number of assessments; number and location of target areas for planning activities; target number and value for approved rebates; estimated frequency of debris disposal activities and the number of residential property or home owners participating.*

## 9. Fuel Management

*To be eligible for funding, all fuel management activities must be in alignment with the requirements for funding fuel management activities identified in Appendix 3 and should generally be outside of FireSmart Noncombustible Zone and Priority Zones 1, 2 and 3.*

Worksheet 2 is required to be completed but the total cost estimate and total grant request should be included here.

Total fuel management cost estimate: 9241

Total fuel management grant request: 9241

*Note: Refer to Appendix 3 of the Program & Application Guide for funding requirements for fuel management activities and Appendix 4 for the requirements for maps and spatial data.*

## 10. Total Project Cost & Total Grant Request

Total project cost estimate: 170191

Total grant request: 122241

*Note: Please ensure the total project cost estimate and the total project grant request provided here match the information provided in Question 6 on the Application Form.*

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# 2020 Community Resiliency Investment Program

## FireSmart Community Funding & Supports

### Worksheet 2: Proposed Fuel Management Activities

This worksheet is only required for applications that include fuel management activities, including fuel management prescriptions, burn plans, fuel management treatments and prescribed burns.

Please complete and return the worksheet with the full FireSmart Community Funding & Supports application package. If you have any questions, contact [cri-swpi@ubcm.ca](mailto:cri-swpi@ubcm.ca) or (250) 356-2947.

Only one Worksheet 2 should be submitted regardless of the number of proposed treatment units.

#### Instructions:

Prescription(s) or Burn Plan(s) only: complete Sections 1, 2, 3

Fuel management treatment or prescribed burn only: complete Sections 1, 2 and 4

Phased projects: complete Section 1, 2, 3 and 4

Applicants that apply for phased projects (prescription or burn plan development and fuel management treatment for the same treatment unit(s) provided) are required to provide sufficient detail on estimated treatment size and post-treatment outcomes (e.g. reducing crown fire initiation potential by XX). It is expected that the proposed treatment areas would be less than the proposed assessment area (due to areas that will not be appropriate for treatment, such as riparian corridors).

Applicants can also apply for prescriptions and treatment of different treatment units in a single Worksheet 2.

In cases where other contributions are included for proposed activities, please clearly distinguish between the requested grant amount and other contributions, including in-kind contributions. Detailed cost estimates may be requested.

## Worksheet 2: Proposed Fuel Management Activities

<b>SECTION 1: Applicant Information</b>	<b>CRI-</b> (for administrative use only)
Name of Local Government or First Nation: District of North Vancouver	Name of Project: Fuel Management Prescription Development

<b>SECTION 2: General Project Information</b>		
<p><b>1. Type and Location of Fuel Management Activities.</b> All activities must be primarily located within the applicant's administrative boundary. Please check all activities that you are applying for funding for:</p>		
<p><b>Local Government Land</b></p> <p><input checked="" type="checkbox"/> Prescription(s) or burn plan(s)</p> <p><input type="checkbox"/> Fuel management treatment</p> <p><input type="checkbox"/> Prescribed burns</p>	<p><b>First Nations Land</b></p> <p><input type="checkbox"/> Prescription(s) or burn plan(s)</p> <p><input type="checkbox"/> Fuel management treatment</p> <p><input type="checkbox"/> Prescribed burns</p>	<p><b>Provincial Crown Land</b></p> <p><input type="checkbox"/> Prescription(s) or burn plan(s)</p> <p><input type="checkbox"/> Fuel management treatment</p> <p><input type="checkbox"/> Prescribed burns</p>
<p><b>2. Forest Professional.</b> All activities that fall under the practice of forestry must be developed and, where applicable, signed and sealed by a forest professional that is accredited by the Association of BC Forest Professionals and operating within their scope of practice.</p> <p>Name of forest professional (if known at time of application): Will go to Competitive Tender BC Bids</p> <p>ABC FP Registration Number:</p>		

<b>SECTION 3: Detailed Project Information – Fuel Management Prescriptions or Burn Plans</b>	
<p><b>Note:</b> Refer to the BC Wildfire Service 2019 <a href="#">Fuel Management Prescription Guidance</a> document and/or <a href="#">provincial requirements for planning a burn</a> before completing this section. Only complete this section if you are applying to develop prescriptions or burns plans or for phased projects. If not, skip to Section 4.</p>	
<p><b>3. Hectares to be Assessed.</b> Please indicate the number of hectares to be assessed.</p> <p>Local Government Land: 26.4 ha</p> <p>First Nations Land:           ha</p> <p>Provincial Crown Land:       ha</p>	
<p><b>4. Description of Proposed Assessment Area.</b> Please provide a description of the area(s) proposed for assessment, including proximity to values and linkage to overall community wildfire risk reduction activities.</p> <p>Please see CWPP Update page 63 Table 15 Proposed Treatment Area Summary Table for area descriptions PTU 1 and 3. Map 11. Proposed and Past Treatments page 69 for locations.</p>	

- 5. Rationale.** Please provide a rationale for the necessity of the proposed assessment (e.g. improved suppression opportunities along main access corridor, linkages to larger fuel breaks).

CWPP Update recommended Objective #12 High Priority: Proceed with detailed assessment, prescription development, and treatment of hazardous units identified and prioritized in this CWPP (Attachment 1). Summary rational for PTU 1 and 3 Table 15. Proposed Treatment Area Summary Table (Attachment 2 & 3) and PTU location detailed on Map 11. Proposed and Past Treatments (Attachment 4). PTU 1 and 3 total 26.4 ha of interface area identified as a High Risk priority located on District land and in close proximity to houses. The District has a track record of supporting, by Council resolution, UBCM funding applications and have successfully completed prescription development and 57ha of operational fuel treatments.

Section 4. Wildfire Threat and Risk pages 30 to 49 summarizes the factors that contribute to and were assessed in the determination of wildfire threat around the community. Factors include the natural fire regime, weather and climate change, the Provincial Strategic Threat Analysis, spotting impact, fire intensity and history.

Section 4.3 Local Wildfire Threat Assessment pages 49 to 57 verifies local fuel type, proximity to the community, fire spread patterns, topography and local threat classification. The result of the analysis shows that the AOI is 2% extreme threat class rating, 7% high, 53% moderate, 13% low and 9% very low/water and detailed on Map 10. Local Fire Behaviour Threat Rating and WUI Threat Rating (Attachment 5).

*Additional information (e.g. fire history, weather trends, prevailing winds, etc.) that supports the treatment as a priority to mitigate negative impacts to the identified values at risk is required to be submitted with Worksheet 2.*

## 6. Description & Grant Request

Activities related to prescription or burn plan development, including any required assessments, wildfire modeling and information sharing with First Nations. Please describe: First Nation consultation of draft prescription	\$ 700
Site evaluation, including field reconnaissance, threat plots and data collection, and the evaluation of site access. Please describe: Some site evaluation has been completed for the recent CWPP Update. Polygons will require detailed site-level assessment, stratify treatment areas, and identify values and constraints. Based on previous 2013 prescription development for 9x TU totalling 49.7ha averaged @ \$315 per/ha. These 2x TU total 26.4ha @ approximately \$350 per/ha = \$9,240. Propose equal cost for site evaluation, layout and final reporting.	\$ 2847
Lay out and traversing of proposed areas for treatments. Please describe: See above, approx. \$89 per/ha	\$ 2847
Preparation of all final report requirements, including maps, spatial data and metadata. Please describe: See above, approx. \$89 per/ha	\$ 2847
Grant Request Sub-total:	\$ 9241
Cost per hectare:	\$ 350

#### SECTION 4: Detailed Project Information – Fuel Management Treatment, including prescribed burns

**Note:** Refer to the [provincial requirements for planning a burn](#) before completing this section. Only complete this section if you are applying to undertake a fuel management treatment, including prescribed burns, or for phased projects.

**7. Hectares.** Please indicate the number of hectares to be treated.

Local Government Land:            ha

First Nations Land:            ha

Provincial Crown Land:            ha

**8. Description of Proposed Treatment Area(s).** Please provide a description of the proposed treatment area(s) including proximity to values and linkage to overall community wildfire risk reduction activities.

**9. Rationale.** Please provide a rationale for the necessity of the proposed fuel treatment (e.g. improved suppression opportunities along main access corridor, linkages to larger fuel breaks).

*Additional information (e.g. fire history, weather trends, prevailing winds, etc.) that supports the treatment as a priority to mitigate negative impacts to the identified values at risk is required to be submitted with Worksheet 2.*

**10. Objectives.** Please provide clearly defined objectives and target conditions for fuel management.

This must include fuel reduction loading targets and measures for expected post-treatment fire behaviour outcomes (e.g. reducing crown fire initiation potential by XX and spread by XX from the adjacent stand by reducing surface fuel loading to XX and increasing height to live crown to XX).

**11. Residual Fibre.** Please indicate and describe if you expect the removal of residual fibre from the treatment areas to a processing facility. If so, you will be required to provide a cost estimate for this activity in Question 13 below.

**12. Information Sharing with First Nations.** For Provincial Crown Land only, confirmation from the land manager that information sharing with First Nations has been completed.

*An email from the land manager indicating that First Nations information sharing has been completed is required to be submitted with Worksheet 2.*

#### 13. Description & Grant Request

Pre-treatment activities: activities required to obtain authorizations, danger tree assessments, notification to First Nations and stakeholders, and public engagement costs. Please describe:

\$



Treatments: pruning, thinning, tree falling, brushing, grazing, debris management and/or prescribed fire. Please describe:	\$
Removal of residual fibre to a processing facility. Please describe and separate this cost from the overall treatment cost:	\$
Post-treatment activities: completion of threat assessments (only for local government and First Nations land) and signage. Please describe:	\$
Preparation of all final report requirements, including maps, spatial data and metadata. Please describe:	\$
Grant Request Sub-total:	\$ 9241
Cost per hectare:	\$ 350
Expected revenue derived from the sale of forest products:	\$ 0

*Note: All other financial contributions for eligible portions of the project must be declared in the final report and, depending on the total value, may decrease the value of the grant. This includes any other grant funding and any revenue (e.g. sale of forest products) that is generated from activities that are funded by the FireSmart Community Funding & Supports program.*

<b>Total Grant Request for Fuel Management Activities:</b>	<b>\$ 9241</b>
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