



# Community Wildfire Resiliency Plan

2025



BRITISH COLUMBIA  
**FireSmart**™



**FORSITE** FIRE

## Registered Professional Signature and Seal

*This CWRP has been prepared for the Regional District of the Central Okanagan.*

| RPF Printed Name                                                                                                                                                                                                                                                 | RPF # |
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| Lauren Shinnimin                                                                                                                                                                                                                                                 | 5154  |
| FIT Printed Name                                                                                                                                                                                                                                                 | FIT # |
| Sidney Potter                                                                                                                                                                                                                                                    | 6080  |
| Date Signed                                                                                                                                                                                                                                                      |       |
| March 30, 2026                                                                                                                                                                                                                                                   |       |
| <p><i>I certify that I have reviewed this document and, while I did not personally supervise the work described, I have determined that this work has been completed to the standards expected of a registrant of Forest Professionals British Columbia.</i></p> |       |
| Registered Professional Forester Signature & Seal                                                                                                                                                                                                                |       |
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## Signature Page

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Mike Walroth

Director of Protective Services/Regional Fire Chief

Regional District of Central Okanagan

2026-04-28

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Date

## Acknowledgments

We acknowledge that the Regional District of Central Okanagan (RDCO) is within the traditional, ancestral, and unceded territory of the Syilx/Okanagan Nation and includes the lands of the self-governing Westbank First Nation. We honour the enduring relationships that Syilx peoples maintain with these lands and waters. As we plan for wildfire resilience, we recognize and respect Indigenous stewardship and cultural fire knowledge that have shaped these ecosystems for generations.

Forsite would like to acknowledge the contributions of many individuals during the building of this CWRP, including:

- **Mike Walroth**, Director Protective Services/Regional Fire Chief, RDCO
- **Ross Kotscherofski**, North Westside Fire Rescue Chief/RDCO Fire Services Advisor, RDCO
- **Wayne Darlington**, Manager – Parks Capital Planning and Asset Management, RDCO
- **Matt Hammond**, Manager – Park Operations, RDCO
- **Adam Skrinnikoff**, FireSmart Coordinator, RDCO

This report was completed with the support from the following staff from Forsite Consultants Ltd:

- **Sidney Potter**, FIT, Wildfire Management Specialist
- **Crystal Gauer**, Community Planner
- **Lauren Shinnimin**, RPF, Team Lead – Forsite Fire Wildfire Resiliency Funded Program
- **Lindsay Hill**, RPF, Wildfire Management Specialist
- **Christine Pachkowski**, RPBio, FIT, Ecosystem Restoration Planner
- **Richelle Parada**, GIS Specialist

This report would not be possible without the Community Resiliency Investment (CRI) Program and funding from the Union of British Columbia Municipalities (UBCM) for the Regional District of Central Okanagan.

## Executive Summary

In British Columbia, four of the most severe wildfire seasons in the past century have occurred within the last eight years: 2017, 2018, 2021, 2023, and 2024.<sup>1</sup> The Regional District of Central Okanagan (RDCO), located in the Okanagan Valley, has experienced firsthand the impacts of these wildfire seasons.

In response to these events, the RDCO has built a robust FireSmart program. Creating a Community Wildfire Resiliency Plan (CWRP) is the next step in building the program. The 2025 CWRP will mark the third iteration of wildfire planning for the Regional District, following the original Community Wildfire Protection Plan (CWPP) commissioned in 2010 and the 2021 CWPP focused on RDCO Regional Parks.

The purpose of the Community Wildfire Resiliency Plan (CWRP) for the RDCO is to:

- i. Identify and assess wildfire hazards within and around the RDCO,
- ii. Assess potential risks and impacts to these communities and infrastructure from wildfires, and
- iii. Provide effective, feasible mitigation strategies to reduce identified hazards and risk.

The CWRP applies the seven FireSmart Disciplines as defined by FireSmart Canada to all aspects of wildfire management and risk reduction within RDCO. The development of the CWRP followed a multi-phase approach, including analysis of background data, a local wildfire threat assessment based on field data, and the formulation of a risk mitigation strategy tailored to the unique attributes of RDCO.

The action plan in Table 1 summarizes the recommended action items as identified by this CWRP. Implementing these actions to increase the RDCOs wildfire resiliency requires coordinated efforts by the regional district's internal government departments and external agencies, neighbouring governments, stakeholders, and community members/private landowners.

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<sup>1</sup> Parisien, M. A., Barber, Q. E., Bourbonnais, M. L., Daniels, L. D., Flannigan, M. D., Gray, R. W., ... & Whitman, E. (2023). Abrupt, climate-induced increase in wildfires in British Columbia since the mid-2000s. *Communications Earth & Environment*, 4(1), 309.



## Summary of Identified Risks and Action Plan

| Risk Assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| <p><i>The purpose of a risk assessment is to identify the specific risks to a community and its assets. An ongoing review of the risk assessment should occur annually.</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <p>The risks listed below were identified based on background research, fieldwork data collection and discussions with RDCO Staff. The risks below are not listed in order of priority:</p> <ol style="list-style-type: none"> <li><b>Wildfire Exposure:</b> The RDCO is situated in a fire-prone environment. Since 2003, several large, wildfires have entered the Okanagan Valley from nearby forested plateaus, resulting in structure loss, damage to critical infrastructure, and community evacuations. The threat of wildfire affecting the RDCO remains a significant and ongoing concern.</li> <li><b>Population Growth and Development Pressure:</b> The RDCO has experienced population growth since 2016 (45% increase in West Electoral Area), which is expected to continue. As a result, housing developments are expanding into the wildland-urban interface (WUI), increasing the number of structures at risk from wildfire. This growth also places additional demands on emergency response services and municipal capacity.</li> <li><b>Privately Owned Land:</b> Approximately 41% of the WUI within the RDCO is privately owned. Under the current provincial funding model, wildfire risk reduction and fuel management activities on private lands are ineligible. This places a heavy burden on private landowners to take proactive measures and limits the areas where the RDCO can manage fuels.</li> </ol> |

The action table below summarizes the **High** or **Very High** priority action items that have been identified for the Regional District of Central Okanagan. **A comprehensive list of all recommended actions broken down by FireSmart Discipline can be found in the corresponding discipline section in section 5.0 FireSmart Disciplines**

Table 1. RDCO CWRP Action Plan Summary (Note: only items identified as High or Very High have been included).

| RDCO CWRP Action Plan                                                                                                                                                       |                                                                       |           |                       |                                                                                                |                                                                                                                                                                        |                                                                                                                                                                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------|-----------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action                                                                                                                                                                      | Lead(s)                                                               | Priority  | Timeframe             | Resources Required                                                                             | Metric for Success                                                                                                                                                     | Rationale/Notes                                                                                                                                                                                                                        |
| Education                                                                                                                                                                   |                                                                       |           |                       |                                                                                                |                                                                                                                                                                        |                                                                                                                                                                                                                                        |
| Read and understand the CWRP's identified risks and recommended actions.                                                                                                    | FireSmart Coordinator, RDCO Fire Services Staff                       | Very High | Immediately           | CWRP                                                                                           | Read and understand the recommended CWRP actions.                                                                                                                      | Making this CWRP publicly available is important for community education and engagement.<br><br>Community understanding and buy-in is critical for the successful implementation of recommendations within this CWRP.                  |
| Develop a FireSmart public communication plan/strategy to effectively plan and monitor annual FireSmart educational strategies and activities for the entirety of the RDCO. | RDCO Fire Services Staff, FireSmart Coordinator, Communications staff | Very High | Immediate and ongoing | Communications and planning resources, FireSmart Community Funding and Supprots (FCFS) Funding | Development of an annual communications plan that clearly outlines FireSmart education objectives and targets tailored for each RDCO Electoral Area and its residents. | A public communications plan/strategy can help clarify and set goals, objectives, and measurable targets. It also allows for successful tracking and adaptive management to improve activities that do not meet objectives or targets. |

| RDCO CWRP Action Plan                                                                                                                                 |                                                                       |           |                                                         |                                                                                                                                       |                                                                                                                                                                |                                                                                                                                                                                                                                                                                                           |
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| Action                                                                                                                                                | Lead(s)                                                               | Priority  | Timeframe                                               | Resources Required                                                                                                                    | Metric for Success                                                                                                                                             | Rationale/Notes                                                                                                                                                                                                                                                                                           |
| Continue to employ a full-time FireSmart Coordinator. This position runs all aspects of the FireSmart program and oversees many aspects of this CWRP. | RDCO Fire Services Staff, FireSmart Coordinator                       | Very High | Ongoing                                                 | An annual salary for the position, position training and orientation, FCFS Funding                                                    | Successfully retain at least one individual in the FireSmart position who is enthusiastic about promoting FireSmart.                                           | A FireSmart Coordinator will be required to receive further FCFS funding beginning in 2024.<br><br>Funding is currently available under the CRI program to support a salary for a FireSmart Coordinator, Local FireSmart Representative, Wildfire Mitigation Specialist, or Wildfire Forest Professional. |
| Continue to organize and hold a variety of FireSmart events throughout the RDCO.                                                                      | RDCO Fire Services Staff, FireSmart Coordinator                       | Very High | Annually, ideally between the months of May and October | Communication and public outreach resources, Resources to run events (location to host, volunteers, refreshments, etc.), FCFS Funding | Hold a minimum of one type of FireSmart event per year in each Electoral Area.                                                                                 | Public outreach and information sharing needs to occur on a variety of platforms to capture residents of all demographics.                                                                                                                                                                                |
| Inform communities of upcoming FireSmart events and other fire/emergency management related updates via a variety of communication platforms.         | RDCO Fire Services Staff, FireSmart Coordinator, Communications Staff | Very High | Ongoing                                                 | Communication resources, FCFS Funding                                                                                                 | FireSmart resources are available in multiple locations and platforms to reach a wide variety of residents. FireSmart events are well advertised and attended. | Public outreach and information sharing needs to occur on a variety of platforms to capture residents of all demographics.                                                                                                                                                                                |

| RDCO CWRP Action Plan                                                                  |                                                 |                  |           |                                                                            |                                                                                                                                                                    |                                                                                                                                                                                                                                                                                        |
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| Action                                                                                 | Lead(s)                                         | Priority         | Timeframe | Resources Required                                                         | Metric for Success                                                                                                                                                 | Rationale/Notes                                                                                                                                                                                                                                                                        |
| <b>Continue to conduct FireSmart Home Ignition Zone Assessments for RDCO residents</b> | RDCO Fire Services Staff, FireSmart Coordinator | <b>Very High</b> | Ongoing   | Qualified personnel to complete the Home Ignition Assessment, FCFS Funding | Residents within RDCO continue to request and receive assessments. Set reasonable targets for number of completed assessments based on interest in previous years. | The RDCO is actively conducting assessments and should continue to prioritize them, especially in the following neighbourhoods: <ul style="list-style-type: none"> <li>• Ewings Landing</li> <li>• Shelter Cover</li> <li>• Upper Fintry</li> <li>• Joe Rich neighbourhoods</li> </ul> |
| <b>Conduct FireSmart Farm and Ranch Assessments</b>                                    | RDCO Fire Services Staff, FireSmart Coordinator | <b>High</b>      | Ongoing   | Qualified personnel to complete Farm and Ranch Assessments, FCFS Funding   | Set reasonable targets for number of completed assessments based on interest in previous years.                                                                    | Prioritize conducting these assessments in the following locations: <ul style="list-style-type: none"> <li>• Joe Rich</li> <li>• Upper Ellison</li> </ul> Refer to <a href="#">FireSmart Farm and Ranch Wildfire Preparedness</a> for more information.                                |

| RDCO CWRP Action Plan                                                                                                                                                                                                                                                                                                               |                                                 |          |           |                                       |                                                                                                                                                                         |                                                                                                                                                                                                                                                             |
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| Action                                                                                                                                                                                                                                                                                                                              | Lead(s)                                         | Priority | Timeframe | Resources Required                    | Metric for Success                                                                                                                                                      | Rationale/Notes                                                                                                                                                                                                                                             |
| <p><b>Continue to administer the FireSmart Rebate Program to residential property or homeowners that complete eligible FireSmart activities from their FireSmart Home Ignition Zone (HIZ) Assessment.</b> This provides incentive and assists with the financial barriers of implementing FireSmart activities on private land.</p> | RDCO Fire Services Staff, FireSmart Coordinator | High     | Ongoing   | Administrative services, FCFS Funding | Residents are aware of the FireSmart Rebate program and are actively taking part in implementing eligible FireSmart activities and applying for rebates upon completion | As of 2025, rebates are limited to 50% of the total cost of the eligible activities identified in the CRI Program Guide and up to \$5,000 per property. Rebate programs can be highly effective in aiding with the financial costs of FireSmart activities. |



| RDCO CWRP Action Plan                                                                                                                                                |                                                 |          |           |                                                                               |                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| Action                                                                                                                                                               | Lead(s)                                         | Priority | Timeframe | Resources Required                                                            | Metric for Success                                                    | Rationale/Notes                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Continue support for FireSmart Canada's Neighbourhood Recognition Program and encourage expansion.</b> Once recognized, annually renew for FireSmart Recognition. | RDCO Fire Services Staff, FireSmart Coordinator | High     | Ongoing   | FCFS Funding, Neighbourhood Champion and Local FireSmart Representative (LFR) | Have a minimum of three neighbourhoods recognized by the end of 2030. | <p>Prioritize the pursuit of Neighbourhood recognition on the following neighbourhoods:</p> <ul style="list-style-type: none"> <li>• Ewings Landing</li> <li>• Shelter Cover</li> <li>• Upper Fintry (West)</li> <li>• Joe Rich neighbourhoods (east)</li> </ul> <p>For more details regarding FireSmart Canada Neighbourhood Recognition Program (FCNRP) and steps towards recognition status, please see the <a href="#">FireSmart BC FCNRP website</a>.</p> |
| <b>Monitor eligible funding sources related to wildfire, FireSmart and emergency preparedness.</b>                                                                   | RDCO Fire Services Staff, FireSmart Coordinator | High     | Ongoing   | Designated staff to monitor grant postings                                    | Bi-annually review eligible funding sources for new opportunities.    | Diversifying funding sources increases program stability and allows the RDCO to pursue new initiatives such as youth engagement, demonstration projects, and expanded vegetation management. It also builds resilience by leveraging partnerships and aligning with broader community climate-adaptation goals.                                                                                                                                                |
| Legislation and Planning                                                                                                                                             |                                                 |          |           |                                                                               |                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

| RDCO CWRP Action Plan                                                                                                                                                                                                                                                                |                                         |           |                       |                                                                                                  |                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                       |
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| Action                                                                                                                                                                                                                                                                               | Lead(s)                                 | Priority  | Timeframe             | Resources Required                                                                               | Metric for Success                                                                                                                                                                  | Rationale/Notes                                                                                                                                                                                                                                                                                                                                                       |
| <p><b>Planning and development throughout the RDCO consider wildfire risk in all aspects.</b><br/>This includes ensuring all local emergency and development plans and bylaws are developed, updated, or amended to align with wildfire risk reduction and FireSmart principles.</p> | RDCO Development & Engineering Services | Very High | Immediate and ongoing | Communication resources, internal staff capacity, FireSmart and wildfire risk reduction guidance | All RDCO plans and policies incorporate wildfire risk at multiple levels and bylaws are developed/amended to reflect higher-level goals and objectives for wildfire risk reduction. | <p>The implementation of the RDCO CWRP should align as much as possible with CWRPs being implemented by neighbouring jurisdictions, including:</p> <ul style="list-style-type: none"> <li>• City of Kelowna,</li> <li>• City of West Kelowna,</li> <li>• Westbank First Nation,</li> <li>• District of Lake Country, and</li> <li>• District of Peachland.</li> </ul> |
| Development Considerations                                                                                                                                                                                                                                                           |                                         |           |                       |                                                                                                  |                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                       |

| RDCO CWRP Action Plan                                                                                                                                                                                     |                                                 |                  |                       |                                                                                                                                                                                             |                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| Action                                                                                                                                                                                                    | Lead(s)                                         | Priority         | Timeframe             | Resources Required                                                                                                                                                                          | Metric for Success                                                                                                                                                                                                                     | Rationale/Notes                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Revise Wildfire Development Permit Area (DPA) mapping for Joe Rich RLUB to better reflect changes in land ownership and other changes on the landscape that could impact wildfire hazard and risk.</b> | RDCO Development Services                       | <b>Very High</b> | Within 5 years (2030) | FCFS funding, Communication resources, internal staff capacity, FireSmart and wildfire risk reduction guidance, subject matter expertise required for assessing and mapping wildfire hazard | The Wildfire Development Permit Areas established by the Joe Rich RLUB are revised to reflect current wildfire hazard and any changes in land ownership and encompass larger areas that better reflect ember transport from wildfires. | A Wildfire Development Permit Area is established in the Joe Rich Rural Land Use Bylaw (RLUB) No 1195. However, the Wildfire DPA mapping has not been updated in nearly 15 years to reflect population growth, ongoing changes on the landscape, and wildfire hazard.<br><br>It is recommended that the Wildfire DPA areas should be expanded beyond 100m from forested landscape to better reflect the potential for ember transfer from wildfires. |
| <b>Complete FireSmart Critical Infrastructure Assessments on RDCO owned Critical Infrastructure (CI).</b>                                                                                                 | RDCO Fire Services Staff, FireSmart Coordinator | <b>High</b>      | Immediate             | Qualified Local FireSmart Representative (LFR), FireSmart Critical Infrastructure Assessment Sheet, FCFS funding                                                                            | FireSmart CI Assessments have been completed on highest priority CI by 2027                                                                                                                                                            | Funding is currently available through the CRI program to complete FireSmart assessments for publicly owned buildings, critical infrastructure, culturally significant sites and/or green spaces.                                                                                                                                                                                                                                                    |

| RDCO CWRP Action Plan                                                                                                                                                                                                   |                                                                      |           |                       |                                                         |                                                                          |                                                                                                                                                                                                   |
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| Action                                                                                                                                                                                                                  | Lead(s)                                                              | Priority  | Timeframe             | Resources Required                                      | Metric for Success                                                       | Rationale/Notes                                                                                                                                                                                   |
| Once a FireSmart Critical Infrastructure Assessment has been completed, implement FireSmart recommendations and mitigation activities resulting from the completed Assessments with the goal of reducing hazard scores. | RDCO Fire Services Staff, FireSmart Coordinator                      | High      | Within 5 years (2030) | FCFS funding, Labour, machinery, construction materials | FireSmart recommendations have been implemented for a minimum of two CI. | Funding is currently available through the CRI program to complete FireSmart assessments for publicly owned buildings, critical infrastructure, culturally significant sites and/or green spaces. |
| Interagency Cooperation                                                                                                                                                                                                 |                                                                      |           |                       |                                                         |                                                                          |                                                                                                                                                                                                   |
| Annually attend the Wildfire Resiliency Training Summit.                                                                                                                                                                | RDCO Fire Services Staff, FireSmart Coordinator, RDCO Planning staff | Very High | Annually              | FCFS funding                                            | A minimum of two people attend annually from the Regional District.      | The intention of having multiple people attend the event is to foster awareness and education regarding wildfire resiliency across various RDCO departments.                                      |

| RDCO CWRP Action Plan                                                                                              |                                                 |           |           |                                  |                                                                                                         |                                                                                                                                                                                                                                                                                                                        |
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| Action                                                                                                             | Lead(s)                                         | Priority  | Timeframe | Resources Required               | Metric for Success                                                                                      | Rationale/Notes                                                                                                                                                                                                                                                                                                        |
| Continue to participate in the Okanagan Regional FireSmart Collaborative and share findings of CWRP with partners. | RDCO Fire Services Staff, FireSmart Coordinator | Very High | Ongoing   | FCFS funding                     | Continued participation in Collaborative.                                                               | The committee meets quarterly to discuss FireSmart and emergency management. Share high priority action items with other agencies/partners and identify synergies and opportunities to collaborate.<br><br>Participation in a FireSmart Resiliency Collaborative is a requirement for further FCFS funding as of 2024. |
| Provide Indigenous cultural safety and humility training to emergency management personal.                         | RDCO staff                                      | High      | Ongoing   | FCFS funding                     | Aim to provide training annually for staff until all emergency management staff have received training. | Training will provide emergency management staff with knowledge that can be used to successfully contribute to partnerships and assist Indigenous communities in both wildfire prevention and suppression.                                                                                                             |
| Cross-Training                                                                                                     |                                                 |           |           |                                  |                                                                                                         |                                                                                                                                                                                                                                                                                                                        |
| Provide opportunities for additional wildfire cross training to RDCO Fire Department Staff.                        | RDCO Fire Services Staff, FireSmart Coordinator | High      | Ongoing   | FCFS funding, qualified trainers | Additional courses are provided to all members of the RDCO Fire Departments.                            | Interface wildfire training is essential for fire department members to successfully respond to interface wildfires.                                                                                                                                                                                                   |



| RDCO CWRP Action Plan                                                                                                                                                 |                                                 |           |             |                                  |                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                   |
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| Action                                                                                                                                                                | Lead(s)                                         | Priority  | Timeframe   | Resources Required               | Metric for Success                                                                                                         | Rationale/Notes                                                                                                                                                                                                                                                                                                                                                                                   |
| Provide opportunities for additional training related to FireSmart and wildfire risk reduction to RDCO staff, FireSmart Coordinator, and committed community members. | RDCO Fire Services Staff, FireSmart Coordinator | High      | Ongoing     | FCFS funding, qualified trainers | Regional district staff receive appropriate cross training in emergency management, FireSmart and Wildfire Risk Reduction. | Participation in these courses will improve the District's ability to effectively respond to an emergency event.                                                                                                                                                                                                                                                                                  |
| Emergency Planning                                                                                                                                                    |                                                 |           |             |                                  |                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                   |
| Update the RDCO Emergency Plan to align with the new Emergency and Disaster Management Act.                                                                           | RDCO Protective Services Staff                  | Very High | Immediately | Internal funding                 | Emergency Plan has been updated to align with EDMA.                                                                        | The Emergency and Disaster Management Act (EDMA) replaced the Emergency Program Act (EPA) on November 8, 2023. The updated legislation reflects the realities of the modern world including global pandemics, security threats and climate change, and shifts from focusing on emergency response to the four phases of emergency management: mitigation, preparation, and recovery. <sup>2</sup> |

<sup>2</sup> [Modernized emergency management legislation.](#)

| RDCO CWRP Action Plan                                                                                                                             |                                |           |           |                                        |                                                       |                                                                                                                                                                                                                                                                                                                                                                                                             |
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| Action                                                                                                                                            | Lead(s)                        | Priority  | Timeframe | Resources Required                     | Metric for Success                                    | Rationale/Notes                                                                                                                                                                                                                                                                                                                                                                                             |
| Assess, inventory and purchase FireSmart structure protection equipment.                                                                          | RDCO Fire Services Staff       | Very High | Ongoing   | FCFS funding                           | FireSmart Structure Protection equipment is procured. | FireSmart structure protection equipment can aid in wildfire response and suppression efforts throughout the RDCO.                                                                                                                                                                                                                                                                                          |
| Encourage local residents to sign up for the Regional District of Central Okanagan <u><a href="#">emergency notification program</a></u> .        | RDCO Communications Staff      | Very High | Ongoing   | Communication resources and channels   | 75% of residents are subscribed by the end of 2027.   | Residents need access to trusted, timely and accurate information to ensure their own safety during an emergency event.<br><br>Encourage residents to follow the EOC's social media channels:<br><ul style="list-style-type: none"> <li>• <a href="https://facebook.com/CORDEmergency">facebook.com/CORDEmergency</a></li> <li>• <a href="https://twitter.com/co_emerg">twitter.com/co_emerg</a></li> </ul> |
| Develop a strategic plan to address evacuation in areas identified by the <u><a href="#">2022 RDCO Regional Evacuation Planning Framework</a></u> | RDCO Protective Services Staff | High      | 2026-2029 | UBCM funding, internal funding sources | Areas with insufficient egress routes are identified. | The <u><a href="#">Public Notification and Evacuation Route Planning</a></u> Stream of the UBCM administered Community Emergency Preparedness Fund provides funding to local governments.                                                                                                                                                                                                                   |

| RDCO CWRP Action Plan                                                                                                                                                                    |                                                 |          |                               |                              |                                                                         |                                                                                                                                                                                                                                                             |
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| Action                                                                                                                                                                                   | Lead(s)                                         | Priority | Timeframe                     | Resources Required           | Metric for Success                                                      | Rationale/Notes                                                                                                                                                                                                                                             |
| Develop and/or participate in cross-jurisdictional meetings and tabletop exercises specifically focused on wildfire preparedness and response, including wildfire readiness meetings.    | RDCO Fire Services Staff, FireSmart Coordinator | High     | Immediately and then annually | FCFS funding, venue          | Annual or biannual participation in a meeting and or tabletop exercise. | Consider hiring an emergency management consultant to facilitate an annual tabletop exercise focused on a wildfire event impacting the RDCO. Consider partnership with members from the Okanagan Regional Community FireSmart and Resiliency Collaborative. |
| Assess community water delivery ability as required for suppression activities in the municipal area and wildland urban interface.                                                       | RDCO Fire Services Staff                        | High     | 2026-2028                     | FCFS funding                 | Report and next steps are generated.                                    | Address areas without water coverage and consider adding dry hydrants in key locations or similar infrastructure to support fire suppression.                                                                                                               |
| Install dry hydrants or similar infrastructure in strategic locations throughout the WUI and municipal areas to enhance water availability and support interface suppression operations. | RDCO Fire Services Staff                        | High     | 2026-2028                     | Internal or external funding | Areas with inadequate coverage are addressed.                           | Address areas without water coverage and consider adding dry hydrants in key locations or similar infrastructure to support fire suppression.                                                                                                               |
| Vegetation Management                                                                                                                                                                    |                                                 |          |                               |                              |                                                                         |                                                                                                                                                                                                                                                             |

| RDCO CWRP Action Plan                                                                                                                                                                                                                                                                                                   |                                                                         |                  |                       |                                                                                                         |                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| Action                                                                                                                                                                                                                                                                                                                  | Lead(s)                                                                 | Priority         | Timeframe             | Resources Required                                                                                      | Metric for Success                                                                                                                                      | Rationale/Notes                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Encourage residents to remove/reduce flammable vegetation in the Immediate, Intermediate, and Extended zones on their properties.</b><br>Promote the use of the FireSmart BC Landscaping Guide to inform vegetation management best practices and replace flammable vegetation with more fire-resistant landscaping. | RDCO Fire Services Staff,<br>FireSmart Coordinator                      | <b>Very High</b> | Immediate and ongoing | Communication and educational resources, FCFS Funding                                                   | Residents begin to show interest in FireSmart landscaping and actively removing flammable vegetation nearest to homes and structures on their property. | Utilize the funding available through the CRI program for the FireSmart Rebate Program and provide off-site vegetative debris disposal for property owners who have undertaken their own vegetation management in the Home Ignition Zone.                                                                                                                                                                                                  |
| <b>Develop fuel management prescriptions or burn plans for vegetated areas identified on provincial crown land within the eligible WUIs.</b>                                                                                                                                                                            | RDCO Fire Services Staff,<br>FireSmart Coordinator,<br>RDCO Parks Staff | <b>Very High</b> | Annually, ongoing     | FCFS funding, A Registered Professional Forester is required to write all fuel management prescriptions | 1-2 fuel management prescriptions are developed for an identified fuel treatment area within the Regional District each year.                           | It is recommended to start with Priority 1 proposed fuel treatment units as identified within the CWRP. This <b>must occur in collaboration</b> with the Ministry of Forests, First Nations (Westbank First Nation FNWL and Community Forest Licenses), BC Wildfire Service (BCWS), and other applicable land managers. Fuel treatment areas should be planned as part of the integrated fuel management / prescribed fire planning table. |

| RDCO CWRP Action Plan                                                                                                                                                                                                                                                            |                                                                   |           |                          |                                                                                                             |                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|-----------|--------------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action                                                                                                                                                                                                                                                                           | Lead(s)                                                           | Priority  | Timeframe                | Resources Required                                                                                          | Metric for Success                                                                                                                                                                              | Rationale/Notes                                                                                                                                                                                                                                                                                           |
| Undertake fuel management treatment operations or prescribed burns on provincial crown land within the eligible WUIs based on completed fuel management prescriptions.                                                                                                           | RDCO Fire Services Staff, FireSmart Coordinator, RDCO Parks Staff | Very High | Every 1-2 years, ongoing | FCFS funding, Contractors must be acquired to complete treatment operations                                 | After the fuel management prescription phase is completed, at least 1-2 fuel management treatments are operationally completed for an identified area in the Regional District every 1-2 years. | This must occur in collaboration with the Ministry of Forests, First Nations (Westbank First Nation FNWL and Community Forest Licenses), BCWS, and other applicable land managers. Fuel treatment units should be implemented as part of the integrated fuel management / prescribed fire planning table. |
| Complete recommended mitigation activities identified in FireSmart assessments for residential homes and properties owned by seniors (65 years or older), elders, people with limited mobility, or vulnerable populations who cannot undertake mitigation activities themselves. | RDCO Fire Services Staff, FireSmart Coordinator                   | Very High | Immediate and ongoing    | FCFS funding, tracking system of vulnerable peoples requiring assistance implementing mitigation activities | Target mitigation activities for five properties a year.                                                                                                                                        | Funding is available through the <a href="#">FireSmart Community Funding and Supports</a> program and application guide.                                                                                                                                                                                  |

| RDCO CWRP Action Plan                                                                                                                                  |                                                                      |          |           |                                                          |                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|----------|-----------|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action                                                                                                                                                 | Lead(s)                                                              | Priority | Timeframe | Resources Required                                       | Metric for Success                                                                                            | Rationale/Notes                                                                                                                                                                                                                                                                                                                                                                |
| Work collaboratively with WoodlotsBC to manage wildfire risk reduction activities on Woodlot license areas adjacent to private residential properties. | RDCO Fire Services Staff, FireSmart Coordinator                      | High     | On-going  | Relationship with WoodlotsBC                             | RDCO establishes contact with WoodlotsBC and shares proposed FTUs from CWRP that have woodlot tenure overlap. | Identified FTU's and Wildfire Threat Assessments in this CWRP can be used to help prioritize treatments in woodlots. <a href="#">WoodlotsBC</a> administers funding for woodlot holders to reduce wildfire risk with support from the <a href="#">Forest Enhancement Society of BC</a> .                                                                                       |
| Create an inventory system to track areas that have been fuel managed, their respective maintenance cycles, and various FireSmart assessments.         | RDCO Fire Services Staff, FireSmart Coordinator, RDCO GIS Department | High     | Annually  | Excel spreadsheet tracking system or geospatial database | Creation of a tracking system.                                                                                | Establishing a tracking system will streamline the monitoring of ongoing fuel treatments and help identify necessary maintenance tasks at various intervals. This will ensure that treatments remain effective over time and allow for timely interventions to address any emerging risks or concerns. The tracking system should also consider various FireSmart assessments. |



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## Frequently Used Acronyms

|        |                                                          |
|--------|----------------------------------------------------------|
| AOI    | Area of Interest                                         |
| AOP    | Annual Operating Plan                                    |
| BCBC   | British Columbia Building Code                           |
| BC     | British Columbia                                         |
| BCWS   | British Columbia Wildfire Service                        |
| BEC    | Biogeoclimatic Ecosystem Classification                  |
| CFDRS  | Canadian Forest Fire Danger Rating System                |
| CFRC   | Community FireSmart Resiliency Collaborative             |
| CFS    | Community Funding and Support                            |
| CI     | Critical infrastructure                                  |
| CLWRR  | Crown Land Wildfire Risk Reduction                       |
| CIFFC  | Canadian Interagency Forest Fire Centre                  |
| CRI    | Community Resiliency Investment                          |
| CWRP   | Community Wildfire Resiliency Plans                      |
| DP     | Development Permit                                       |
| DPA    | Development Permit Area                                  |
| EMCR   | Emergency Management and Climate Readiness               |
| EMP    | Emergency Management Plan                                |
| EPA    | Emergency Program Act                                    |
| FBP    | Fire Behaviour Prediction System                         |
| FCI    | Forest Carbon Initiative                                 |
| FCFS   | FireSmart Community Funding and Supports                 |
| FESBC  | Forest Enhancement Society of British Columbia           |
| FESIMS | Forest Enhancement Society Information Management System |
| FMP    | Fire Management Plan                                     |
| FNESS  | First Nations Emergency Services Society                 |
| FRPA   | Forest & Range Practices Act                             |
| GIS    | Geographic Information Systems                           |
| FSCCRP | FireSmart Canada Community Recognition Program           |
| HIZ    | Home Ignition Zone                                       |
| HVRA   | Hazard, Risk, and Vulnerability Analysis                 |
| HVRA   | High Value Resources and Assets                          |
| LRMP   | Land and Resource Management Plan                        |
| MOF    | Ministry of Forests                                      |
| MOTI   | Ministry of Transportation and Infrastructure            |
| PSOE   | Provincial State of Emergency                            |
| PSTA   | Provincial Strategic Threat Assessment                   |

---

|       |                                               |
|-------|-----------------------------------------------|
| OCP   | Official Community Plan                       |
| OFC   | Office of the Fire Commissioner               |
| RSWAP | Resource Sharing Wildfire Allocation Protocol |
| SARA  | Species at Risk Act                           |
| SOLE  | State of Local Emergency                      |
| SPU   | Structure Protection Units                    |
| UBCM  | Union of British Columbia Municipalities      |
| VAR   | Values at Risk                                |
| WRR   | Wildfire Risk Reduction                       |
| WUI   | Wildland-Urban Interface                      |

# 1.0 Introduction

In British Columbia, four of the most severe wildfire seasons in the past century have occurred within the last eight years: 2017, 2018, 2021, 2023, and 2024.<sup>3</sup> The Regional District of Central Okanagan (RDCO), located in the Okanagan Valley, has experienced firsthand the impacts of these fire seasons. During the 2017 wildfire season, the Okanagan Centre Fire spread rapidly, destroying eight homes and damaging 30 properties. In 2023, the McDougall Creek Wildfire, originating outside West Kelowna, quickly grew and spotted across Okanagan Lake, igniting the Clarke Creek Wildfire.

In response to these events, the RDCO has built a robust FireSmart program. Creating a Community Wildfire Resiliency Plan (CWRP) is the next step in building the program. The 2025 CWRP will mark the third iteration of wildfire planning for the Regional District, following the original Community Wildfire Protection Plan (CWPP) commissioned in 2010 and the 2021 CWPP focused on RDCO Regional Parks. This updated CWRP takes a holistic approach to wildfire risk reduction and community resilience beyond Regional Park Land. It integrates the seven FireSmart Canada disciplines into various aspects of wildfire management. These seven disciplines include:

1. Education
2. Legislation and Planning
3. Development Consideration
4. Interagency Cooperation
5. Cross-Training
6. Emergency Planning
7. Vegetation Management

## 1.1 Plan Goals

The purpose of the RDCO's CWRP is to identify wildfire hazards within the Regional District's administrative boundary, assess the potential risks and impacts to the community from wildfires, and provide strategies to reduce these identified threats and risks guided through FireSmart principles. In accordance with the *Community Wildfire Resiliency Plan Instruction Guide*, this plan will:

1. Increase community understanding of wildfire risk,
2. Increase greater collaboration within and across administrative boundaries,

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<sup>3</sup> Parisien, M. A., Barber, Q. E., Bourbonnais, M. L., Daniels, L. D., Flannigan, M. D., Gray, R. W., ... & Whitman, E. (2023). Abrupt, climate-induced increase in wildfires in British Columbia since the mid-2000s. *Communications Earth & Environment*, 4(1), 309.

3. Address diverse community needs, and
4. Develop specific, measurable, achievable, realistic, and time-bound (SMART) recommendations for effectively reducing wildfire risk.

## 1.2 Plan Development Summary

Forsite Consultants Ltd. (Forsite) prepared the 2025 RDCO Community Wildfire Resiliency Plan. A review of relevant background materials and field data informed prioritized recommendations and actions across the FireSmart disciplines.

In developing this CWRP, Forsite worked through the following four primary phases:

2. **Gathering and analysis of background information:** Comprehensive review of relevant plans and compilation of spatial datasets to inform the CWRP.
3. **Values-at-risk identification:** Compiled a district-wide values-at-risk geodatabase from RDCO datasets.
4. **Wildfire hazard and risk assessment:** Field-based wildfire threat assessments on forested Crown and Regional District lands within the WUI adjacent to homes and other values. Findings informed delineation of proposed fuel treatment units.
5. **Risk mitigation strategy and recommendations:** Synthesis of collected data into a CWRP tailored to the RDCO, including an action table with prioritized recommendations to strengthen wildfire resilience.

## 1.3 Community Resiliency Investment Program

The Community Resiliency Investment (CRI) Program was announced by the provincial government in 2018 with the goal of providing support and guidance to BC communities to reduce the risk and impacts of wildfire. For municipalities and regional districts, the program is administered by the Union of BC Municipalities (UBCM) on behalf of the Ministry of Forests. Communities apply for funding through the FireSmart Community Funding & Supports (FCFS) stream of the CRI program. The CRI program provides funding to local governments and First Nations to undertake FireSmart planning and implementation that enhance overall wildfire resiliency.

As of 2024, to be eligible to receive additional funding to undertake other FireSmart activities, the CRI program requires each community to have:

- an up-to-date **Community Wildfire Resiliency Plan**,
- a **FireSmart Coordinator position**, and
- participate in a **Community FireSmart Resiliency Collaborative**

This CWRP is designed to meet the requirements and expectations of the CRI program at the time of development; recommendations within the Action Plan are intentionally organized to facilitate future FCFS funding applications. However, it is important to note that government funding programs are subject to government budget availabilities and allotment. As such, the CRI program and eligible activities are subject to change annually.

## 2.0 Relationship to Other Plans

Numerous plans offer valuable insights to inform the CWRP, providing essential background information and guiding its development. The plans listed in Table 2 were consulted during the CWRP development process to ensure alignment with existing community and land objectives.

Table 2: Key Plans and Relationship to CWRP

| Key Plans and Relationships to CWRP                                |                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Plan Type                                                          | Description                                                                                                                                                                                                  | Relationship to CWRP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Regional District of Central Okanagan Emergency Plan (2020)</b> | This plan establishes an Emergency Management program to oversee disaster and emergency preparedness in the RDCO. It provides a framework for staff to mobilize resources and coordinate emergency response. | The RDCO primary Emergency Operations Centre (EOC) is located at the Kelowna Fire Department, Station #1. The plan details EOC structure and function with templated examples that can be utilized during an emergency event.                                                                                                                                                                                                                                                                                                                                        |
| <b>Okanagan Shuswap Land and Resource Management Plan</b>          | A regional plan providing high-level objectives for Crown land and resource use. Resource Management Zones are identified within the planning area to guide resource management related activities           | Includes management direction for Resource Management Zones (RMZs). Relevant RMZs include: <ul style="list-style-type: none"> <li>• <b>Community/Crown Interface</b><br/>Section 7: Protect populated areas from forest fire hazards in the wildland urban interface and protect the provincial forest from fires originating on contiguous private land.</li> <li>• <b>Ecosystem Management – NDT4 (open forests and grasslands)</b><br/>Includes goals, objectives and strategies for maintaining the health and function of fire-dominated ecosystems.</li> </ul> |



|                                                                         |                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Rural Westside<br/>Official<br/>Community<br/>Plan (2014)</b></p> | <p>Outlines broad land use objectives and policies for the Northern portion of RDCO Electoral Area West, guiding community planning and bylaw development.</p> | <p>The Official Community Plan (OCP) is relevant to this CWRP through the following key sections:</p> <ul style="list-style-type: none"> <li>• <b>3 - Natural Environment (pg. 14-23)</b><br/>Goals, standards, and policies for environmental protection and visual quality values, which will need to be consulted when planning fuel management activities.</li> <li>• <b>4 - Natural Hazards (pg. 28-31)</b> –<br/>Information regarding natural hazards including wildfire. Includes goals, policies and objectives for reducing wildfire risk.</li> <li>• <b>10 – Parks and Recreation (pg. 62-63)</b><br/>Recognizes the need to address fire hazards and safety with the development of recreational areas.</li> <li>• <b>13.5 – Wildfire Interface Development Permit Area (pg. 79-80)</b><br/>Designates Development Permit Areas for the establishment of guidelines for wildfire interface construction.</li> <li>• <b>Appendix 3: Terrestrial Ecosystems Development Permit Objectives and Design Guidelines (pg. 2-3)</b><br/>Establishes objectives to incorporate wildfire management in a way sensitive to the ecosystem that mimics the effect of the natural fire cycles that once occurred in the Okanagan.</li> </ul> |
|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                            |                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                            |                                                                                                                                                                                                                      | <ul style="list-style-type: none"> <li>• <b>Appendix 5: Wildfire Interface Construction Development Permit Objectives and Design Guidelines (pg. 1-5)</b><br/>Establishes objectives and guidelines for reduction of wildfire hazards in new developments.</li> <li>• <b>Map: Wildfire Interface Development Permit Area</b> – Identified wildfire interface area.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Brent Road/Trepanier Official Community Plan (2012)</b> | <p>Outlines broad land use objectives and policies for the communities of Brent Road and Trepanier within RDCO West Electoral Area. The Official Community plan guides community planning and bylaw development.</p> | <p>Relevant to this CWRP through the following key sections:</p> <ul style="list-style-type: none"> <li>• <b>5.2 – Natural Hazards (pg. 36-38)</b><br/>Information regarding natural hazards including wildfire. Includes goals, policies and objectives for reducing wildfire risk.</li> <li>• <b>9.3 Community and Protective Services (pg. 61)</b><br/>Summarizes fire protective services for areas covered under the OCP.</li> <li>• <b>Appendix II: Sensitive Terrestrial Ecosystem Development Permit Area and Guidelines (pg. 86-98)</b><br/>Defines ecological objectives that will need to be referenced in the development of fuel management plans. Includes objectives to incorporate wildfire management in a way sensitive to the ecosystem that mimics the effect of the natural fire cycles that once occurred in the Okanagan.</li> </ul> |

|                                             |                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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|                                             |                                                                                                                                                                | <ul style="list-style-type: none"> <li>• <b>Appendix IV: Wildfire Development Permit Area and Guidelines (pg. 103 – 108)</b><br/>Defines objectives for reduction of wildfire hazards when developing new structures or buildings.</li> <li>• <b>Schedule H: Wildfire Development Permit Area Map</b> Identified wildfire interface area.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>South Slopes Official Community Plan</b> | <p>Outlines broad land use objectives and policies for southern communities in RDCO East Electoral Area, guiding community planning and bylaw development.</p> | <p>Relevant to this CWRP through the following key sections:</p> <ul style="list-style-type: none"> <li>• <b>5.2 – Natural Hazards (pg. 32-34)</b><br/>Information regarding natural hazards including wildfire. Includes goals, policies and objectives for reducing wildfire risk.</li> <li>• <b>9.3 Community and Protective Services (pg. 53)</b><br/>Summarizes fire protective services for areas covered under the OCP.</li> <li>• <b>Appendix II: Sensitive Terrestrial Ecosystem Development Permit Area and Guidelines (pg. 77-90)</b><br/>Defines ecological objectives that will need to be referenced in the development of fuel management plans. Includes objectives to incorporate wildfire management in a way sensitive to the ecosystem that mimics the effect of the natural fire cycles that once occurred in the Okanagan.</li> </ul> |

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|                                        |                                                                                                                                                             | <ul style="list-style-type: none"> <li>• <b>Appendix IV: Wildfire Development Permit Area and Guidelines (pg. 95-100)</b><br/>Defines objectives for reduction of wildfire hazards when developing new structures or buildings.</li> <li>• <b>Schedule H: Wildfire Development Permit Area Map</b><br/>Identified wildfire interface area.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Ellison Official Community Plan</b> | <p>Outlines broad land use objectives and policies for Ellison community in RDCO East Electoral Area, guiding community planning and bylaw development.</p> | <p>Relevant to this CWRP through the following key sections:</p> <ul style="list-style-type: none"> <li>• <b>8 – Natural Hazards (pg. 32-34)</b><br/>Information regarding natural hazards including wildfire. Includes goals, policies and objectives for reducing wildfire risk.</li> <li>• <b>18-10 – Wildfire Development Permit Area</b><br/>Defines objectives for reduction of wildfire hazards when developing new structures or buildings.</li> <li>• <b>18-12 – Sensitive Ecosystem Development Permit Area</b><br/>Defines ecological objectives that will need to be referenced in the development of fuel management plans. Includes objectives to incorporate wildfire management in a way sensitive to the ecosystem that mimics the effect of the natural fire cycles that once occurred in the Okanagan.</li> </ul> |

|                                                             |                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                             |                                                                                                                                                                                                                                                                                    | <ul style="list-style-type: none"> <li><b>Schedule F – Wildfire Interface Development Permit Map</b> Identified wildfire interface area</li> </ul>                                                                                                                                                                                                                                                                              |
| <b>Regional Evacuation Planning Framework (2022)</b>        | Provides a framework for planning and coordination of evacuation or shelter-in-place response for all communities within the regional boundaries.                                                                                                                                  | <p>This document provides strategies and processes for evacuation during a wildfire event, including notification of residents, designation of evacuation routes, traffic control and security.</p> <p>The Framework identifies recommendations to further facilitate evacuation route planning –</p> <p>Recommendation #5 is the development of a CWRP for Westside Road, Joe Rich, Ellison Trepanier, and Upper Glenrosa.</p> |
| <b>Urban Forest Health Strategy (2007)</b>                  | Provides an overview of the current state of forest health within RDCO Parks with specific focus on the impacts of Western Pine Beetle attacks and the susceptibility of forests to Mountain Pine Beetle in 2007.                                                                  | This document, provides further rationale to pursue fuel management within parks that are characterized by high tree densities making them more susceptible to pests and diseases, consequentially creating stand characteristics (readily available and continuous fuels) that facilitate the potential for undesirable fire behaviour and effects.                                                                            |
| <b>McDougall Creek Wildfire – Park Recovery Plan (2023)</b> | Guides the recovery of the impacts and severe burn damage that Rose Valley, Raymer Bay, Traders Cover, and Stephens Coyote Ridge Parks obtained during the McDougall Creek Wildfire. Specific strategies include assessments to danger trees, powerlines, falling rock and debris, | The CWRP can facilitate the long-term objective of making regional parks more wildfire resilient through the endorsement of FireSmart principles.                                                                                                                                                                                                                                                                               |

|                                                                                  |                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                    |
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|                                                                                  | trails and trailheads, and water infrastructure (waste and irrigation).                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                    |
| <b>RDCO Wildfire Recovery Plan (2023)</b>                                        | Guides the recovery of impacts to RDCO obtained during the McDougall Creek Wildfire. Specific objectives include protecting public safety, facilitating economic revitalization, and facilitating environmental resilience and adaptation                                                                    | The CWRP can facilitate objectives identified in the RDCO Recovery Plan specific to environmental resilience and adaptation. Specifically, those long-term objectives pertaining to mitigating and managing environmental impacts caused by natural disasters and advancing ecosystem restoration. |
| <b>Joe Rich Fire Protection Area – Community Wildfire Resiliency Plan (2021)</b> | CWRP provides the basis for all future wildfire mitigation activities in the Joe Rich Fire Protection Area. The plan provides an understanding of the wildfire environment, wildfire risk to community, and strategic/operational recommendations to reduce risk and increase resilience to wildfire threat. | The CWRP includes recommendations that are reviewed and assessed for their effectiveness to shape and guide the development of the RDCO CWRP recommendations.                                                                                                                                      |
| <b>RDCO Parks – Community Wildfire Protection Plan (2020)</b>                    | The CWPP provides the basis for all future wildfire mitigation activities in RDCO Parks. The plan provides an understanding of the wildfire environment, wildfire risk to community, and strategic/operational recommendations to reduce risk and increase resilience to wildfire threat.                    | The CWPP is the predecessor to CWRPs and includes recommendations that are reviewed and assessed for their effectiveness to shape and guide the development of the RDCO CWRP recommendations.                                                                                                      |
| <b>Ellison Community Structure Protection Plan (2020)</b>                        | Community Structure Protection Plans identify general information pertaining to the community and provide responders with understanding of predetermined structural and cultural                                                                                                                             | Community Structure Protection Plans identify critical infrastructure within each community as well as neighbours of particular concern based on their surrounding fuel types, access/egress,                                                                                                      |

|                                                                                        |                                                                                                            |                                                 |
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| <b>Joe Rich<br/>Community<br/>Structure<br/>Protection Plan<br/>(2020)</b>             | priorities for protection and tactical and operational information to consider in the event of a wildfire. | water supply, and opportunity for safety zones. |
| <b>North Westside<br/>Community<br/>Structure<br/>Protection Plan<br/>(2020)</b>       |                                                                                                            |                                                 |
| <b>Wilson's<br/>Landing<br/>Community<br/>Structure<br/>Protection Plan<br/>(2020)</b> |                                                                                                            |                                                 |

In addition to existing plans, community bylaws were reviewed for their relevance to the CWRP, as outlined in Table 3.

Table 3. Key Bylaws and Relationship to CWRP

| Key Bylaws and Relationships to CWRP                                                             |                                                              |                                                                                                                                       |
|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Bylaw                                                                                            | Description                                                  | Relationship to CWRP                                                                                                                  |
| <b>Joe Rich Fire Protection<br/>Local Service Area<br/>Establishment Bylaw No.<br/>404, 1989</b> | Establishes the Joe Rich Fire Protection Local Service Area. | Enables fire protection activities within the service area including fire suppression and disaster planning within the Joe Rich area. |
| <b>Ellison Fire Protection<br/>Local Service</b>                                                 | Establishes the Ellison Fire Protection Local Service Area.  | Enables fire protection activities within the service area including fire                                                             |



|                                                                                                                                   |                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                        |
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| <b>Establishment Bylaw No. 418, 1990</b>                                                                                          |                                                                                                                                                                                                              | suppression and disaster planning within the Ellison Area.                                                                                                                                                                                                                                                                             |
| <b>Regional District of Central Okanagan Ridgeview Development Fire Protection Service Area Establishment Bylaw No. 909, 2000</b> | Establishes the Ridgeview Fire Protection Local Service Area.                                                                                                                                                | Enables the construction of a fire equipment storage garage and the purchase of equipment and establishes the Ridgeview Development Fire Protection Service Area.                                                                                                                                                                      |
| <b>RDCO Development Application Procedures Bylaws No. 1527, 2023</b>                                                              | Outlines requirements for development application approval within the RDCO.                                                                                                                                  | Identifies development permit areas that protect development from hazardous conditions and requires applicants to have a report prepared by a qualified professional.<br><br>These requirements ensure FireSmart principles are being integrated into the planning and building design process from the initial phases of development. |
| <b>Regional District of Central Okanagan Emergency Management Program Bylaw No. 1444, 2019</b>                                    | A bylaw to regulate the administration and operations of the RDCO Emergency Management Program. The Emergency Management Program is responsible for emergency preparedness, response, and recovery planning. | Recommendations and actions within the CWRP pertaining to FireSmart principles - Legislation and Planning, Interagency Cooperation, Cross-training, and Emergency Planning - could apply to the Emergency Management Program.                                                                                                          |
| <b>Regional District of Central Okanagan Fire Prevention and Regulations Bylaw No. 1066, 2004</b>                                 | A bylaw to regulate fire safety and burning activities with the intention to reduce human-caused interface wildfires                                                                                         | Relevant sections include:<br><br><b>Section 4: Prevention</b> – requires the maintenance of a defensible space for buildings within 30 m of forestland. Requires owners or occupants to keep buildings and yards clear of anything                                                                                                    |

|                                                                                              |                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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|                                                                                              |                                                                                                                                                                                      | <p>that may unduly increase the probability or danger of fire.</p> <p><b>Section 7: Burning</b> – regulates open burning within the boundaries of the RDCO Service Area Fire Departments.</p>                                                                                                                                                                                                                                                                                                                                                                   |
| <b>RDCO Regional Park Plan Bylaw No. 884, 2000.</b>                                          | Gives direction towards protecting the natural environment, setting park priorities, providing outdoor recreation opportunities and providing environmental education opportunities. | A stated goal of the Park Plan is to manage natural resources “with minimal interference to natural processes” (p. 29). Section 6 describes Stewardship Policies for resource management, resource protection, and management strategies. These strategies do not specifically address fire risk, but section 6.9 allows for vegetation, landscape, or terrain modification for public safety, vegetation control and removal of hazardous trees.                                                                                                               |
| <b>Regional District of Central Okanagan – Smoke Control Regulatory Bylaw No. 773 (2011)</b> | A bylaw to require the owners or occupiers of real property, or their agents, to eliminate or reduce smoke/emissions.                                                                | <p><b>2.6 – Opening burning and smoke regulations (pg. 3):</b></p> <ul style="list-style-type: none"> <li>• Burning period is defined as between 7:00 a.m. and sunset of the same day except for burning permitted under section 2.6 d.</li> <li>• For large fires such as pile burning with fuel management, the fire may be maintained for up to 72 hours if the fire is substantially smokeless</li> <li>• A minimum separator of 30 meters shall be maintained between the location of a fire and all property lines, buildings, and structures.</li> </ul> |

|                                                                                           |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                   |
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|                                                                                           |                                                                                                                                                                                                                                                                                                                                              | This bylaw needs to be referred to during fuel management pile burning activities. Note that under Bylaw No. 612 fuel management activities can apply for exemptions to the burning window.                                                                                                                                                                                                       |
| <b>Regional District of Central Okanagan Zoning Bylaw No. 871, revised 2024</b>           | Defines regulations and requirements for all land, buildings, structures and the surface of water within the RDCO. This bylaw does not apply to areas within the District of Lake Country, District of Peachland, City of Kelowna, District of West Kelowna, First Nation Reserves and areas regulated by the Joe Rich Rural Land Use Bylaw. | Defines minimum setbacks, permitted uses, number and type of dwellings / structures and maximum parcel coverage for various zones.<br><br>Manages higher-risk industrial uses by setting strict conditions for portable sawmills/shake mills - these land-use rules limit ignition potential, reduce fuel buildup near operations, and ensure sites are left in a safer condition post-operation. |
| <b>Regional Parks Bylaw No. 1427, 2018</b><br><b>Community Parks Bylaw No. 1431, 2019</b> | Regulates the use of regional parks.                                                                                                                                                                                                                                                                                                         | Prohibits the use of ignition sources including but not limited to fireworks, smoking devices, and open flame cooking devices.                                                                                                                                                                                                                                                                    |
| <b>Joe Rich Rural Land Use Bylaw (RLUB) No 1195 (revised 2021)</b>                        | Regulates land uses for rural areas, containing elements of OCPs and zoning bylaws                                                                                                                                                                                                                                                           | Specific to wildfire, the RLUB designates spatially defined Wildfire Interface Development Permit Areas and contains Wildfire Interface Development Permit Design Guidelines that are utilized during review of Development Permit applications.                                                                                                                                                  |

## 3.0 Community Description

The Regional District of Central Okanagan (RDCO) is located on the unceded traditional  $\text{tr}\acute{\text{x}}\text{w}\acute{\text{u}}\text{l}\text{a}\text{?}\text{x}^{\text{w}}$  (land) of the syilx people. Located in B.C.'s southern interior, spanning Okanagan Lake's valleys, benches, grasslands, and forested uplands. RDCO covers approximately 3,000 km<sup>2</sup> and has a population of about 220,000. The RDCO is made up of two unincorporated electoral areas: Electoral Area East and Electoral Area West. Four member municipalities include the City of Kelowna, the City of West Kelowna, the District of Lake Country, and the District of Peachland as well as Westbank First Nation and Okanagan Indian Band.

Each member municipality has taken responsibility for creation of its own CWRP. Additionally, Joe Rich within the East Electoral Area, developed its own CWRP in 2021.

The Central Okanagan West Electoral Area encompasses the communities of Trader's Cove, Killiney Beach, Wilson's Landing, Westshore Estates, Fintry, Valley of the Sun, Trepanier and Brent Road. The Central Okanagan East Electoral Area encompasses the communities of Ellison, Joe Rich, and neighbourhoods along the south end of Lakeshore Road and June Springs Road.

### 3.1 Area of Interest

The Community Resilience Investment (CRI) program outlines how to define a Community Wildfire Resiliency Plan Area of Interest (AOI), which varies by local government type and structure density. For regional districts, an electoral area boundary may serve as the AOI. For the RDCO CWRP, the AOI is the combined boundaries of Electoral Areas East and West, totaling approximately 255,000 hectares.

### 3.2 Wildland-Urban Interface

The Wildland Urban Interface (WUI) denotes the zone where flammable vegetation interfaces with homes, structures, and critical infrastructure. Wildfire occurring in the WUI presents distinctive challenges for stakeholders and local authorities. Such wildfires are often perceived primarily as threats to human lives rather than natural components of the ecosystem. Additionally, jurisdictional boundaries among emergency services can be intricate, leading to coordination challenges among multiple agencies with varying training, equipment, and tactics during emergencies. RDCO has created an Emergency Plan to coordinate among the various municipalities within the Regional District.

In this CWRP, the WUI differs from the AOI due to the criteria set forth by the CRI program. The WUI is defined as a one-kilometer buffer surrounding areas with a structured density greater than six structures

per square kilometer.<sup>4</sup> This buffer intends to represent a reasonable distance that an ember from a wildfire could travel and ignite structures.

The RDCO wildland–urban interface (WUI) boundary was obtained from the BC Data Catalogue and clipped to the CWRP Area of Interest (Electoral Areas East and West), given the Okanagan Valley’s continuous, cross-jurisdictional WUI.

During concurrent development of the 2025 Peachland CWRP, the AOI and WUI for the RDCO CWRP were aligned, through collaboration with the District of Peachland, RDCO, BC Wildfire Service, and UBCM, to minimize overlap. Under this alignment, RDCO Parks within the Peachland AOI (Hardy Falls, Antlers Beach, and Trepanier Creek Greenway) are addressed in the RDCO CWRP, while WUI areas associated with the District of Peachland are addressed in the Peachland CWRP.

Within Electoral Areas East and West, the eligible WUI land base is approximately **24,500** hectares (Figure 1 and Figure 2). The approximate land jurisdiction breakdown within the WUI is as follows:

- Crown Provincial: 54%
- Municipal: 5%
- Private: 41%

Understanding the makeup of land jurisdiction within the WUI provides context into how much area can be influenced by fuel management on municipal and crown land to create a more resilient land base. This also sheds light on the extent of land that is not eligible for fuel management – private land – highlighting the needs of other FireSmart disciplines such as development considerations and education to facilitate wildfire resiliency across jurisdictions.

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<sup>4</sup> [FireSmart Community Funding and Supports](#)



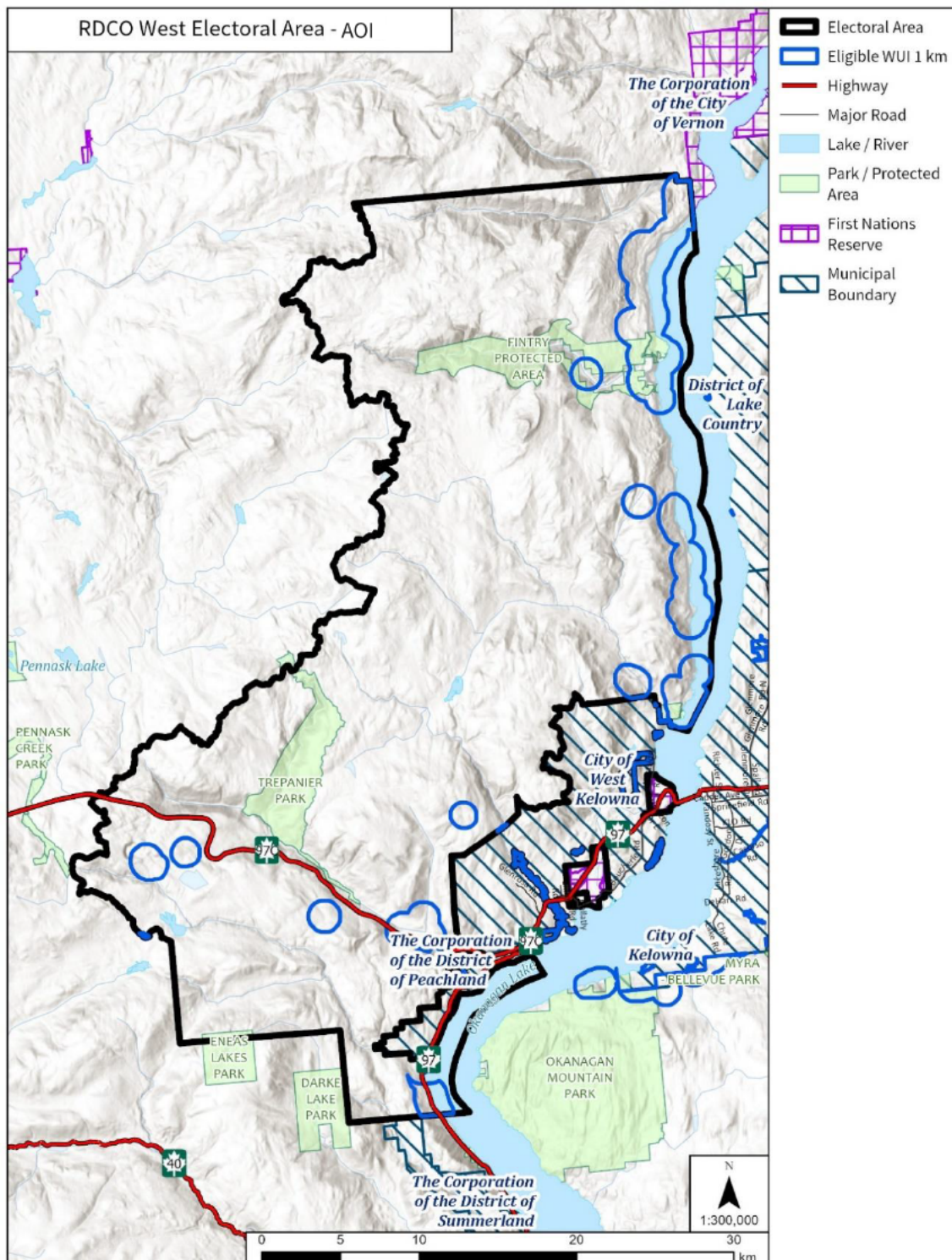


Figure 1. Regional District of Central Okanagan West Electoral Area AOI (Black outline) and WUI.

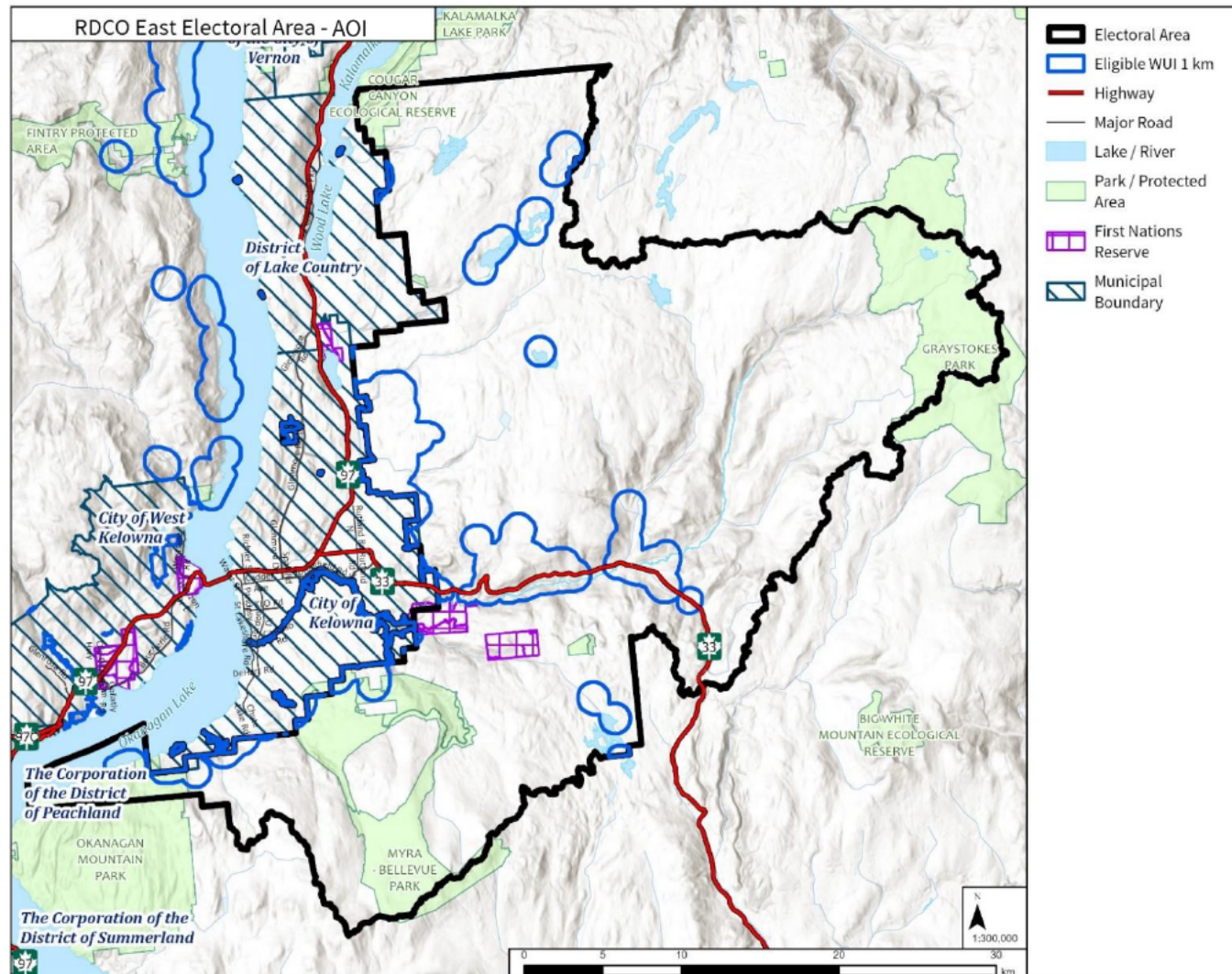


Figure 2. Regional District of Central Okanagan East Electoral Area AOI (Black outline) and WUI.



### 3.3 Community Information

The RDCO has a large land area of approximately 2900 km<sup>2</sup>, including all member municipalities. The West and East Electoral Areas comprise 1,173 km<sup>2</sup> and 1,245 km<sup>2</sup> of the RDCO, respectively. Both Electoral Areas are increasing in population rapidly, in particular the West, which has experienced a 45% increase in population since 2016. From a wildfire and emergency response perspective, the rapid increase in population growth strains emergency response resources. It represents a growing trend in British Columbia of people expanding and building homes in the wildland-urban interface.<sup>5</sup>

Housing need is projected to rise steadily over the next two decades. Electoral Area (EA) West requires an estimated 304 additional dwellings over five years and 1,004 over twenty; EA East requires 381 over five years and 1,245 over twenty. In both areas, anticipated household growth is the primary driver, with growth rates highest early in the period and tapering over time.

Income profiles differ somewhat (EA East's median household income is higher than EA West's), but both areas exhibit ownership-heavy patterns and rental scarcity; the vacancy-rate component contributes little to calculated need due to the very small renter base. These conditions, combined with dispersed development at the wildland edge, imply continued WUI exposure unless land development direction keep pace with incremental growth.

Table 4. Community profile for RDCO Electoral Area West and East.

| Community Information                         | Electoral Area West   | Electoral Area East   |
|-----------------------------------------------|-----------------------|-----------------------|
| Total Population (2021)                       | 2,897                 | 4,258                 |
| Total Population (2016)                       | 1,991                 | 3,814                 |
| Population Percentage Change (2016 -2021)     | + 45%                 | + 11.6%               |
| Total Private Dwellings                       | 1,852                 | 1,775                 |
| Private Dwellings Occupied by Usual Residents | 1,290                 | 1,694                 |
| Population Density Per Square Kilometres      | 2.5/km <sup>2</sup>   | 3.4/km <sup>2</sup>   |
| Land Area                                     | 1,173 km <sup>2</sup> | 1,245 km <sup>2</sup> |

<sup>5</sup> The 2023 wildfires in British Columbia, Canada: impacts, drivers, and transformations to coexist with wildfire

### 3.4 Values at Risk

This section describes how wildfire could affect the values at risk (VAR) within the AOI. VAR includes human life, property, critical infrastructure, high environmental and cultural values, and resource values.

#### 3.4.1 Human Life and Safety

Human life and safety are the highest priority during a wildfire emergency often necessitating the evacuation of at-risk areas. While crucial, evacuations can be slowed by congestion, collisions, limited route redundancy, or fast-moving fire behaviour.

Highway 97 remains the primary north–south corridor for large-scale movements across the Central Okanagan, with Highway 33 connecting the eastern uplands and Highway 97C providing a western outlet from the south-west of the region. Current RDCO planning emphasizes coordinated regional evacuation planning and public readiness.

The 2022 RDCO *Regional Evacuation Planning Framework* is the initial phase of Evacuation Route Planning for the Central Okanagan and identifies high risk areas based on access/egress, proximity to identified hazards, population density, historical events, and presence of single points of failure or critical infrastructure. The following areas were noted:

- Westside road communities that have a single point of access and egress (Lake Okanagan Resort, La Casa, Fintry Delta, Upper Fintry, Valley of the Sun, Estamont, Westshore Estates)
- Trepanier
- Joe Rich – highway 33 route capacity is unknown, understanding the route capacity ensures evacuation route planning is feasible and provides understanding of the time required to evacuate.
- Ellison – public roadways in upper Ellison route capacity is unknown, understanding the route capacity ensures evacuation route planning is feasible and provides understanding of the time required to evacuate.
- McCulloch

##### 3.4.1.1 Electoral Area East

Primary movements use local collectors to reach Highway 33 (Joe Rich corridor) or Highway 97 (Ellison/airport area), then north–south along Highway 97. Secondary options include area connectors that feed back to these highways; route redundancy is limited in the Highway 33 corridor, so early movement is critical.

##### Ellison

The community of Ellison is located just east of Kelowna International Airport. Made up of multiple neighbourhoods including Ellison Estates, Country View Estates, Country Rhodes, Ranch Park Mobile Home Park, Country Lane Mobile Home Park, Scotty Creek, Sunset Ranch Golf Course, and Ellison Agricultural lands. Cumulatively these neighbourhoods have over 1,000 residents (as of 2020). The eastern component of Ellison is of significant concern as its high elevation is characterized by dense Douglas fir and pine stands that residences are embedded within along a dead-end road network. The Community Structure Protection Plan notes that in addition to the hazardous fuel types and single egress route, there is limited safe zones and water supply.

### Joe Rich

Joe Rich is a rural unincorporated area located along highway 33 in RDCO East EA. As per the 2021 Joe Rich CWRP, over 4,000 people live within the Joe Rich community which includes Mission Creek valley, JO Rich Creek, and homes along Hwy 33, Goudie Rd, Three Forks Rd, and Philpott Rd. Neighbourhoods and private properties are characterized by homes interspersed amongst dense coniferous forests with long steep driveways. Highway 33 is the single corridor for evacuation in Joe Rich, and its capacity thresholds to manage mass evacuation is unknown.

#### 3.4.1.2 Electoral Area West

Most rural communities rely on Westside Road to reach Highway 97 at either end of the corridor; from there, evacuees move north–south on Highway 97 or west via Highway 97C (from the West Kelowna/Peachland end) when available. Steep terrain, narrow segments, and long distances can constrain flow; staged or phased evacuations may be required.

### Wilson's Landing, Traders Cove, Lake Okanagan Resort

Multiple small, unincorporated communities and neighbourhoods located north of West Kelowna, on the southern extent of Westside Road include Traders Cove (85+ residents), Wilson's Landing (60+ residents), and Lake Okanagan Resort (25+ residents). Smaller isolated subdivisions include Pine Point, Jenny Creek, and Cinnabar Creek/Bella Vista. These neighbourhoods and communities rely on Westside Road as their single access/egress route and are characterized by steep, narrow, switch backing roadways. The difficult access and terrain are further complicated by the neighbourhoods being embedded in dry C-7 Ponderosa pine – Douglas fir fuels, which are characterized by fine flashy surface fuels and relatively dense ladder and crown fuels capable of supporting a crown fire under certain conditions.

A significant number of these communities were impacted by the 2023 McDougall Creek fire. 100 homes were destroyed within the communities of Traders Cove and Wilson's Landing including Lake Okanagan Resort.



Figure 3. Structural crews assisting with ignitions during the 2023 McDougall wildfire. (photo credit: Chris Marchand).

### Northwest Side

The Northwest Side is located within Electoral Area West – this area includes multiple neighbourhoods and subdivisions along the west side of Okanagan Lake off Westside Road. Communities within the Northwest side include Killiney (130+ residents), Westshore (130+ residents), Fintry (75+ residents), Valley of the Sun (60+), and Ewing's Landing (30+ residents) as well as smaller private subdivisions like Estamont (55+ residents) and La Casa (350+ Residents and 4 commercial buildings). Fintry Provincial Park is located within the Northwest Side and has 200 campsites as well as 1 museum and 6 other historic buildings. Evelyn Rec Site is located just south of Westshore Estates and has 30 campsites. The main road and egress route, Westside Road is narrow and winding with neighbourhoods and subdivisions residing in dense C-7 fuel types characterized by fine flashy surface fuels and occurrences of stands with ladder fuel and crown fuel continuity that could facilitate continuous and intermittent crown fires.

In the event of a fire, upwards of thousands of people could be required to evacuate north or south along west side road

### 3.4.2 Emergency Management

Provincial legislation and policies are in place to support local governments during disasters. On November 8, 2023, the new Emergency and Disaster Management Act (EDMA) came into force, replacing the previous Emergency Program Act. The updated legislation reflects the changing nature of emergencies (e.g. global pandemics, climate change) and shifts from focusing on emergency response to the four phases of emergency management: mitigation, preparation, response, and recovery. To support the new legislation, the provincial government is updating and developing regulations in consultation and cooperation with First Nations, and informed by engagement with Indigenous organizations, provincial ministries, municipalities, regional districts, critical infrastructure owners, public sector agencies, service providers, emergency management practitioners and the public.

RDCO's primary emergency management document is the *Regional District of Central Okanagan Emergency Plan* (2020), which also covers all member municipalities as part of the Regional Emergency Program. The *Emergency Plan* is a joint document that provides guidance and procedures for activating emergency operations centres across municipalities within Central Okanagan. The RDCO also has a *Regional Evacuation Planning Framework*, which identifies high priority areas based on hazard analysis, provides hazard and access challenge data, and provides an approach for coordinating evacuations for all residents in the Regional District.

### 3.4.3 Fire Suppression Capabilities

Local fire-protection service areas identify the authorized area in which a Fire Department serves. The RDCO has four fire departments – Ellison, Joe Rich, North Westside, and Wilson's Landing. Lakeshore Road, Brent Road, and June Springs areas within the RDCO are served by member municipalities. Currently rural communities and dispersed ownership areas within the RDCO that fall outside of a Fire Protection Service Area are:

- Trepanier Rd (south and north of Highway 97C)
- McCulloch Station (McCulloch Rd) – Recreation and Seasonal
- Beaver Lake Rd (Beaver Lake, Crooked Lake, Island Lake, Dee Lake) – Recreation and Seasonal

The RDCO provides fire services for the AOI out of the following fire stations:

Table 5. Fire Stations within the RDCO.



| EA and Fire Station                                                                                                                                                                                                              | Services                                                                                                    | Staffing Model                         | Apparatus                                                                                                                    | Mutual Aid                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| <b>EA East: Ellison Fire Department</b> 4411 Old Vernon Road, Kelowna                                                                                                                                                            | first medical response, fire suppression.                                                                   | paid-on-call, approximately 25 members | Engine 61, Tender 61, Mini 61, Utility U61                                                                                   | -                                            |
| <b>EA East: Joe Rich Fire Rescue</b><br><b>Station 51:</b> 11481 Highway 33, Kelowna<br><b>Station 52:</b> 6550 Goudie Road, Kelowna                                                                                             | first medical response, fire suppression; plus auto extrication, rope rescue, wildland/interface protection | paid-on-call, approximately 30 members | Command/Utility C-51, Pumper-Tender 51, Rescue 51, Tender 52, Engine 52, Bush 52.                                            | Agreement with Big White Fire Dept.          |
| <b>EA West: North Westside Fire Rescue –</b><br><b>Station 101:</b> 514 Udell Road, Vernon<br><b>Station 102:</b> 7355 Westside Road North, West Kelowna<br><b>Station 103:</b> 9335 Hodges Road – Killiney Beach Community Park | first medical response, fire suppression.                                                                   | paid-on-call, approximately 30 members | Engine 101, Engine 102, Rescue 101, Squad 101, Tender 101, Tender 102, Marine 103 (mobile water supply vessel), Wildland 101 | -                                            |
| <b>EA West: Wilson's Landing Fire Department:</b> 2396 Westside Road, Kelowna                                                                                                                                                    | first medical and fire suppression for Traders Cove–Shelter Cove corridor                                   | paid-on-call, approximately 25 members | Engine 42, Tender 42 (operates in tandem with E42), Bush 42.                                                                 | Agreement with the District of West Kelowna. |



#### 3.4.3.1 Mutual Aid Agreements

The RDCO has a mutual aid agreement with all member municipalities which includes Kelowna, Peachland, West Kelowna, and WFN. Mutual aid agreements facilitate resource sharing during emergencies.

The majority of the RDCO is within the BC Wildfire Service Penticton Fire Zone. Lake Country, Fintry, Killiney Beach and other areas to the north are within the Vernon Fire Zone with the office at 235 Bailey Rd. The Penticton and Vernon Fire Zones are staffed with various resources throughout the year, and more information can be found on the BC Wildfire Service website.<sup>6</sup>

#### 3.4.3.2 Community Structure Protection Plans

In 2020 Community Structure Protection Plans (CSPP) were developed for the communities of:

- Ellison
- Joe Rich
- Northwest Side (Killiney, Westshore, Fintry and Valley of the Sun)
- Wilson's Landing (Traders Cove)

These plans provide response agencies with a framework that facilitates efficient structure protection and evacuation planning. The CSPP includes information related to resource requirements, access/egress, and critical infrastructure and values within the community that assist wildfire response and suppression efforts.

### 3.4.4 Electric Power

The RDCOs electrical services are all supplied via overhead distribution lines. The communities of Westshore Estates, Trepanier, and Falcon Ridge do not currently have a secondary source of electrical power in the event of an outage. In the event of a power outage coinciding with wildfire, these communities would lose access to water availability.

### 3.4.5 Critical Infrastructure

Critical infrastructure (CI) assets are structures or facilities that are vital to a community's health, safety, security, and economic well-being. Protecting these assets during a wildfire event is crucial for emergency response preparedness, ensuring coordinated evacuations, and maintaining or restoring essential services promptly afterward. Critical infrastructure encompasses emergency and medical services, electrical and gas utilities, transportation networks, water and wastewater systems, social support services, and

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<sup>6</sup> [Wildfire Response](#). BC Wildfire Service.









### 3.4.6 Community Watersheds and Water Supply

Several community watersheds overlap with the AOI: Lambly/Rose Valley, Trepanier, KLO/Hydraulic, Mission, Kelowna, and Hope Community Watersheds. Wildfires can result in secondary effects that degrade water quality through ash and nutrient loading, sedimentation, and erosion. RDCO water sources are primarily Okanagan Lake and tributary creeks such as Trepanier Creek and Mission Creek. Water systems in the RDCO rely on reservoirs, pump stations, and wells. These water systems can be impacted or damaged by wildfire.

Impacts of drought should be considered, as water levels and flows can reduce even more in summer months, complicating water availability in response efforts.

Water supply and availability should be considered in all components of emergency management.

Given these exposures, any fuel management near intakes, reservoirs, and access routes must be planned and implemented with Community Watershed considerations front-of-mind (e.g., careful treatment prescriptions, erosion and sediment-control measures, timing to avoid high-runoff periods, and coordinated access).

Fuel management planning should proactively consider watershed management.

Announced in the spring of 2024, the Provincial Government is collaborating with the Regional District of North Okanagan, the District of Lake Country, and the Okanagan Indian Band to protect the District's and the Greater Vernon area's primary water source from wildfire risk, as these communities rely on the North Aberdeen Plateau for drinking water.

With \$15 million in funding from the Ministry of Forests, a project team will begin implementing fire-mitigation prescriptions to safeguard water resources, infrastructure, and cultural heritage values in the North Aberdeen Plateau. This initiative is a multi-year, multi-phase project, with phase one already underway.<sup>7</sup>

### 3.4.7 Cultural Values

The RDCO is located on the unceded traditional  $tr\acute{n}xw\acute{u}la?x^w$  (land) of the syilx people. Indigenous cultural values in this region include archaeological sites, traditional use areas, historic structures and artifacts, heritage pathways, and other places or objects considered to have historical, cultural, or archaeological significance to British Columbia, local communities, or Indigenous peoples.

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<sup>7</sup> [Wildfire-prevention project will keep Okanagan communities safe, protect water supply](#). British Columbia.



Indigenous cultural sites in BC are generally not shared with the public due to their sensitive and confidential nature. Local First Nations have the right to keep access to these resources private. Due to an extensive and uninterrupted First Nation presence throughout the region, wildfire and associated suppression operations have the potential to inadvertently impact or destroy cultural heritage resources. **Any planned activities or treatments for the purpose of wildfire mitigation must be appropriately communicated to local First Nations.**

### 3.4.8 High Environmental Values

RDCO parks and adjoining natural areas contain sensitive ecosystems such as riparian corridors, steep/erodible slopes, and habitat used by listed wildlife. Wildfire can have negative impacts to environmental values, recovery efforts include consideration around dangerous trees, slope stability and site-specific rehabilitation. Recent post-fire assessments in RDCO regional parks document the need for danger tree assessments and removal, trail repair, culvert/overflow repair, and geotechnical repairs to reduce erosion and debris flow risks <sup>8</sup>.

Long-standing RDCO forest-health guidance emphasizes proactive measures that both reduce severe fire effects and protect ecological integrity: lower stand density, reintroduce prescribed fire where appropriate, favor fire- and drought-resilient species, remove excess surface fuels while retaining some coarse woody debris, and manage invasive plants and pests through inventory, integrated control, and coordination with adjacent jurisdictions<sup>9</sup>.

Where prior fuel-management projects exist in RDCO parks (e.g., Rose Valley, Glen Canyon, Stephen's Coyote, sntsk'il'nten-Black Mountain-, Mission Creek, Trepanier), maintenance and adaptive treatments should be prioritized to preserve ecological function while sustaining reduced crown-fire potential<sup>10</sup>.

The BC Conservation Data Centre (CDC) provides information about species and ecosystems at risk through the BC Species and Ecosystems Explorer, and CDC iMap. Recorded occurrences of Red and Blue listed animals and ecological plant communities at risk within the AOI have been summarized in Table 7. Red listed species represent any species or ecosystem that is at risk of being lost (extirpated, endangered or threatened). Blue listed species are any species or ecosystem that is of special concern.

Table 7. Red and blue listed species found in the AOI.

| Common Name | Scientific Name | Element Type | BC List Status |
|-------------|-----------------|--------------|----------------|
|-------------|-----------------|--------------|----------------|

<sup>8</sup> 2023 McDougall Creek Wildfire – Parks Services Recovery Plan

<sup>9</sup> RDCO Forest Health Strategy – Regional Parks, B.A. Blackwell & Associates Ltd, 2007

<sup>10</sup> RDCO Parks Community Wildfire Protection Plan, Cabin Resource Management

|                                         |                                                         |                      |      |
|-----------------------------------------|---------------------------------------------------------|----------------------|------|
| American avocet                         | <i>Recurvirostra americana</i>                          | Vertebrate           | Blue |
| American badger                         | <i>Taxidea taxus</i>                                    | Vertebrate           | Red  |
| Baltic rush – common silverweed         | <i>Juncus balticus</i> - <i>Potentilla anserina</i>     | Ecological community | Blue |
| Baltic rush – field sedge               | <i>Juncus balticus</i> - <i>Carex praegracilis</i>      | Ecological community | Red  |
| Canyon wren                             | <i>Catherpes mexicanus</i>                              | Vertebrate           | Blue |
| Columbia plateau pocket mouse           | <i>Perognathus parvus</i>                               | Vertebrate           | Blue |
| Englemann's spike-rush                  | <i>Eleocharis engelmannii</i>                           | Vascular Plant       | Blue |
| Gophersnake, deserticola subspecies     | <i>Pituophis catenifer deserticola</i>                  | Vertebrate           | Blue |
| Great Basin spadefoot                   | <i>Spea intermontana</i>                                | Vertebrate           | Blue |
| Great blue heron, Herodias subspecies   | <i>Ardea herodias herodias</i>                          | Vertebrate           | Blue |
| Immaculate green hairstreak             | <i>Callophrys affinis</i>                               | Invertebrate         | Blue |
| Lewis's woodpecker                      | <i>Melanerpes lewis</i>                                 | Vertebrate           | Blue |
| Lilac-bordered copper                   | <i>Lycaena nivalis</i>                                  | Invertebrate         | Blue |
| Mexican mosquito fern                   | <i>Azolla mexicana</i>                                  | Vascular Plant       | Blue |
| Michigan moonwort                       | <i>Botrychium michiganense</i>                          | Vascular Plant       | Blue |
| North American racer                    | <i>Coluber constrictor</i>                              | Vertebrate           | Blue |
| Nuttall's alkalaigrass – foxtail barley | <i>Puccinellia nuttalliana</i> - <i>Hordeum jubatum</i> | Ecological community | Red  |
| Common cattail marsh                    | <i>Typha latifolia</i> Marsh                            | Ecological community | Blue |
| Spotted bat                             | <i>Euderma maculatum</i>                                | Vertebrate           | Blue |
| Okanagan Hammertail                     | <i>Efferia okanagana</i>                                | Invertebrate         | Red  |

|                                                                                |                                                                                                        |                      |        |
|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|----------------------|--------|
| Olive clubtail                                                                 | <i>Stylurus olivaceus</i>                                                                              | Invertebrate         | Blue   |
| Painted turtle –<br>intermountain – Rocky<br>Mountain population               | <i>Chrysemys picta pop. 2</i>                                                                          | Vertebrate           | Blue   |
| Rocky mountain ridged<br>mussel                                                | <i>Gonidea angulata</i>                                                                                | Invertebrate         | Red    |
| Western bumble bee                                                             | <i>Bombus occidentalis</i>                                                                             | Invertebrate         | Yellow |
| Western harvest mouse                                                          | <i>Reithrodontomys<br/>megalotis</i>                                                                   | Vertebrate           | Blue   |
| Western rattlesnake                                                            | <i>Crotalus oreganus</i>                                                                               | Vertebrate           | Blue   |
| Western screech owl,<br>macfarlanei subspecies                                 | <i>Megascops kennicottii<br/>macfarlanei</i>                                                           | Vertebrate           | Blue   |
| Western tiger<br>salamander                                                    | <i>Ambystoma mavortium</i>                                                                             | Vertebrate           | Red    |
| Alkalai saltgrass –<br>foxtail barley                                          | <i>Distichlis spicata -<br/>Hordeum jubatum</i>                                                        | Ecological community | Blue   |
| Black cottonwood /<br>Douglas-fir / Douglas<br>maple – common<br>snowberry     | <i>Populus trichocarpa -<br/>Pseudotsuga menziesii<br/>/ Acer glabrum -<br/>Symphoricarpos albus</i>   | Ecological community | Red    |
| Trembling aspen /<br>common snowberry /<br>Kentucky bluegrass                  | <i>Populus tremuloides /<br/>Symphoricarpos albus /<br/>Poa pratensis</i>                              | Ecological community | Red    |
| Black cottonwood /<br>Douglas-fir / common<br>snowberry – red osier<br>dogwood | <i>Populus trichocarpa -<br/>Pseudotsuga menziesii<br/>/ Symphoricarpos albus<br/>- Cornus sericea</i> | Ecological community | Red    |
| Black cottonwood /<br>common snowberry –<br>roses                              | <i>Populus trichocarpa /<br/>Symphoricarpos albus -<br/>Rosa spp.</i>                                  | Ecological Community | Red    |
| Hard stemmed bullrush<br>deep marsh                                            | <i>Schoenoplectus acutus<br/>Deep Marsh</i>                                                            | Ecological community | Blue   |
| Baltic rush – common<br>silverweed                                             | <i>Juncus balticus -<br/>Potentilla anserina</i>                                                       | Ecological community | Blue   |
| Cut-leaved water-<br>parsnip                                                   | <i>Berula incisa</i>                                                                                   | Vascular plant       | Blue   |
| Peach-leaf willow                                                              | <i>Salix amygdaloids</i>                                                                               | Vascular plant       | Blue   |
| Hairy water clover                                                             | <i>Marsilea vestita</i>                                                                                | Vascular Plant       | Blue   |

|                                                                  |                                                                                            |                      |      |
|------------------------------------------------------------------|--------------------------------------------------------------------------------------------|----------------------|------|
| Near navarretia                                                  | <i>Navarretia propinqua</i>                                                                | Vascular Plant       | Blue |
| Prairie gentian                                                  | <i>Gentiana affinis</i> var. <i>affinis</i>                                                | Vascular plant       | Red  |
| Trembling aspen /<br>common snowberry /<br>mountain sweet cicely | <i>Populus tremuloides</i> /<br><i>Symphoricarpos albus</i> /<br><i>Osmorhiza berteroi</i> | Ecological community | Red  |
| Water birch / roses                                              | <i>Betula occidentalis</i> /<br><i>Rosa spp.</i>                                           | Ecological community | Red  |
| Whitebark pine                                                   | <i>Pinus albicaulis</i>                                                                    | Vascular plant       | Blue |
| Yellowseed false<br>pimpernel                                    | <i>Lindernia dubia</i> var. <i>dubia</i>                                                   | Vascular plant       | Blue |

All site-level vegetation/fuel management activities and operational wildfire risk reduction treatment plans must follow all legal requirements set out in legislation, orders and high-level plans, or consider best management practices for identified environmental resources and species at risk and their habitats. Assistance and advice from a Registered Professional Biologist or other qualified professional may be required prior to the implementation of any wildfire risk reduction activities in the area to determine potential impacts and guide treatment activities.

## 4.0 Wildfire Risk Assessment

The wildfire risk assessment is a decision support tool intended to determine wildfire risk reduction activities and opportunities that will increase the RDCO's resiliency to wildfire.

It is important to understand the difference between **wildfire risk** and **wildfire threat**, and their context for the wildfire risk planning process. A wildfire risk-based framework considers the likelihood of an unwanted wildfire event, combined with the consequences to communities and high value resources and assets. Overall wildfire risk can be defined as a combination of the following:

- Likelihood (or probability) of an unwanted wildfire event occurring;
- Associated fire behaviour; and
- Consequence – the resulting impact or damage to values.

**Wildfire risk** is measured as the product of likelihood and consequence, but multiple inputs are also required to effectively quantify risk, including potential wildfire behaviour severity, value type, and value vulnerability. Identifying wildfire risk levels through the wildfire risk assessment results in a wildfire mitigation priority list, while presenting opportunities to enhance community resiliency.

**Wildfire threat** refers to the potential for a wildfire to ignite, spread, and consume organic material, such as trees, shrubs, and woody debris, across the landscape. Three main components are used to define wildfire threat, as follows:

- **Topography** – slope, aspect, terrain;
- **Fuel** – loading, size/shape, arrangement (horizontal/vertical), compactness, chemical properties, and fuel moisture; and
- **Weather** – temperature, relative humidity, wind speed and direction, and rainfall.

Together these three components interact to characterize the overall wildfire environment and influence wildfire behaviour (Figure 6.)

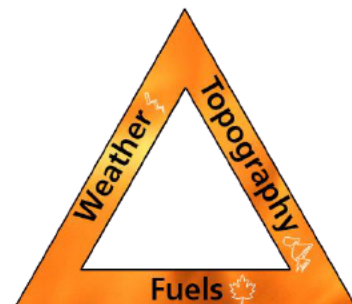


Figure 6. The fire behaviour triangle – interacting components that drive a wildfire.

## 4.1 Local Wildfire Environment

A spatial analysis of topography, fuels, and weather facilitates an understanding of their combined effects on fire regimes that characterize an area. Fire regimes define the frequency, intensity, size, severity, season, and ignition sources that prevail in an area over time.

### 4.1.1 Topography

Topography describes the physical landscape characteristics that influence wildfire behaviour including elevation, slope steepness, aspect (e.g., south-facing), and prominent land features (canyons, valleys)

- **Elevation:** influences weather conditions such as temperature
- **Aspect:** influence solar radiation exposure – south facing slopes in the northern hemisphere experience more heat from the sun, therefore they experience dryer conditions.
- **Slope steepness:** influences fire movement, fire travels more rapidly uphill as rising hot air and flames preheat the upslope vegetation.
- **Land features:** valleys and similar landforms channel wind flow, they can increase the rate of spread and dictate the direction of spread of wildfires.

RDCO Electoral Areas East and West are generally situated in higher-elevation areas above the densely populated member municipalities that occupy the valley bottom. The RDCO West Electoral Area extends to the valley bottom on the west side of Okanagan Lake. Some valley bottom regional parks are included within the AOI such as Kalamoior Regional Park in West Kelowna and Mission Creek Regional Park in Kelowna. Agricultural, urban, commercial, and rural developments have significantly altered the natural landscape and vegetation along the valley bottom within the AOI. Features like Okanagan Lake can act as a natural barrier or break in flammable vegetation, however as seen during the 2023 McDougall Creek wildfire, during periods of extreme fire behaviour relying on natural water bodies features to stop a wildfire cannot be depended on.<sup>11</sup>

As the valley bottom transitions into the foothills, the vegetation varies depending on the aspect. The west-facing slopes along Okanagan Lake have been particularly conducive to aggressive fire behaviour, as observed during recent fires in 2017, 2021 and 2023. The combination of a strong grass component and steep slopes contribute to a rapid rate of spread. Along the eastern boundary of the AOI lies the Aberdeen Plateau, characterized by higher elevations and dense conifer-dominant tree species.

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<sup>11</sup> Daniels, L. D., Dickson-Hoyle, S., Baron, J. N., Copes-Gerbitz, K., Flannigan, M. D., Castellanos-Acuna, D., ... & Gray, R. W. (2024). The 2023 wildfires in British Columbia, Canada: impacts, drivers, and transformations to coexist with wildfire. *Canadian Journal of Forest Research*.







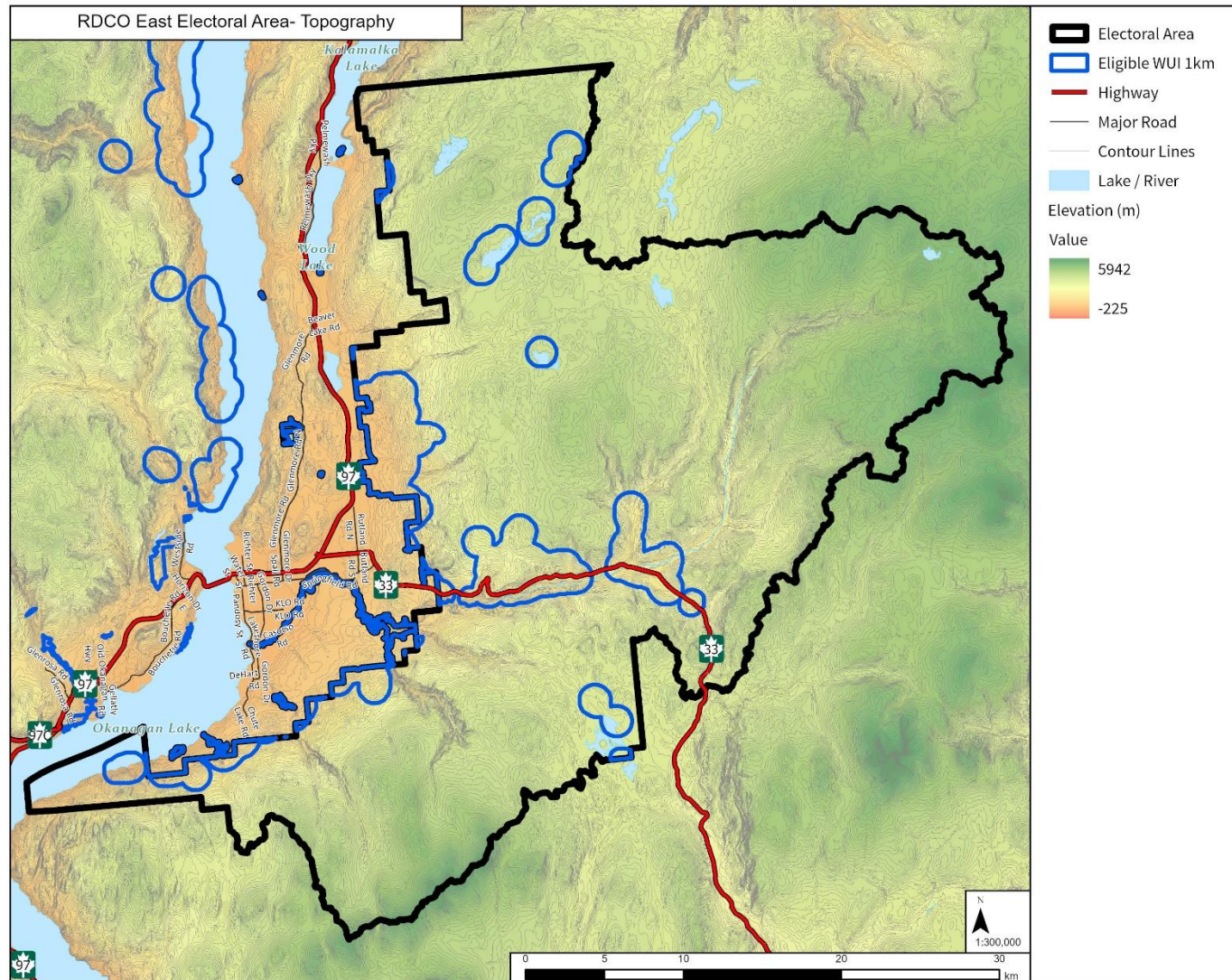


Figure 8. Digital Elevation Model of RDCO Electoral Area East and Surrounding Area

## 4.1.2 Fuel, Ecosystems and Fire Regimes

Fuel refers to any flammable material, including vegetation (leaves, bark, trees, duff), that fire burns. It can also include manufactured fuels, such as buildings. The fuel type, dryness, size, and arrangement can influence a wildfire's speed, size, and severity. Fuel is the only component of wildfire that we can control and the most significant (without fuel, a fire cannot burn). Since different vegetation types and configurations burn with different speeds and intensities, it is crucial to have a firm understanding of the local fuel types to properly assess wildfire threat and wildfire risk.

### 4.1.2.1 Biogeoclimatic Zones

The vegetation (fuels) within any given area of British Columbia can be summarized using the provincial Biogeoclimatic Ecosystem Classification (BEC) system. The BEC system in BC describes and categorizes ecological zones by vegetation, soils, and climate. Regional subzones are derived from relative precipitation and temperature. By understanding the vegetative communities of an area, we can better predict the natural disturbance regime of those ecosystems and the potential effects of wildfire.

The RDCO Electoral Areas cover a wide variety of Biogeoclimatic Zones shown in Table 8.

As seen in Figure 9 and Figure 10, the lakeshore and lower benches of the RDCO are characterized by Okanagan Ponderosa Pine very dry hot (PPxh1) and Okanagan Interior Douglas-fir very dry hot (IDFxh1). These BEC zones are occupied predominantly by relatively open Ponderosa pine and Douglas fir stands with grass and shrub understories. Historically these ecosystems were prone to frequent, low intensity surface fires. Upslope, the broad mid-elevation band of Kettle Interior Douglas-fir dry mild (IDFdm1) and Cascade Interior Douglas-fir dry cool (IDFdk2) tend towards dense stands of Douglas fir, Western larch, and mixes of pine with relatively continuous ladder and surface fuels. North facing aspects and moist draws are defined by Okanagan Interior Cedar Hemlock moist cool (ICHmk1), closed multi-layered stands that facilitate cooler in-stand conditions than those of the IDF or PP. The upper benches of the RDCO shift to MSdm and the highest elevation extents reach Englemann Spruce (ESSF) variants. ICHmk1, Montane Spruce dry mild (MSdm), and ESSF vegetative communities ignite less readily but under high fire weather indices, can facilitate intense crown fires with high spread rates.



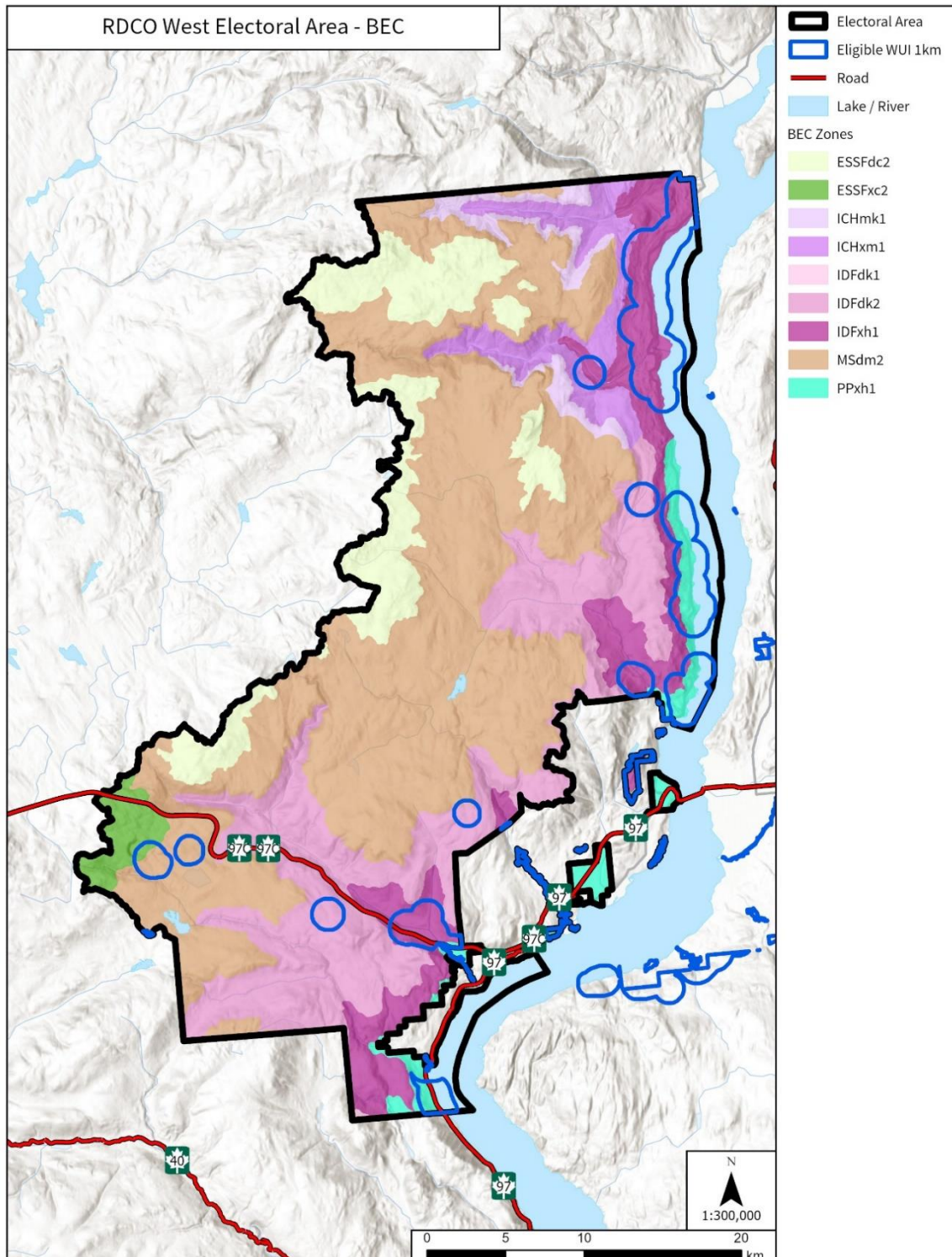


Figure 9. BEC Zone distribution for RDCO EA West.

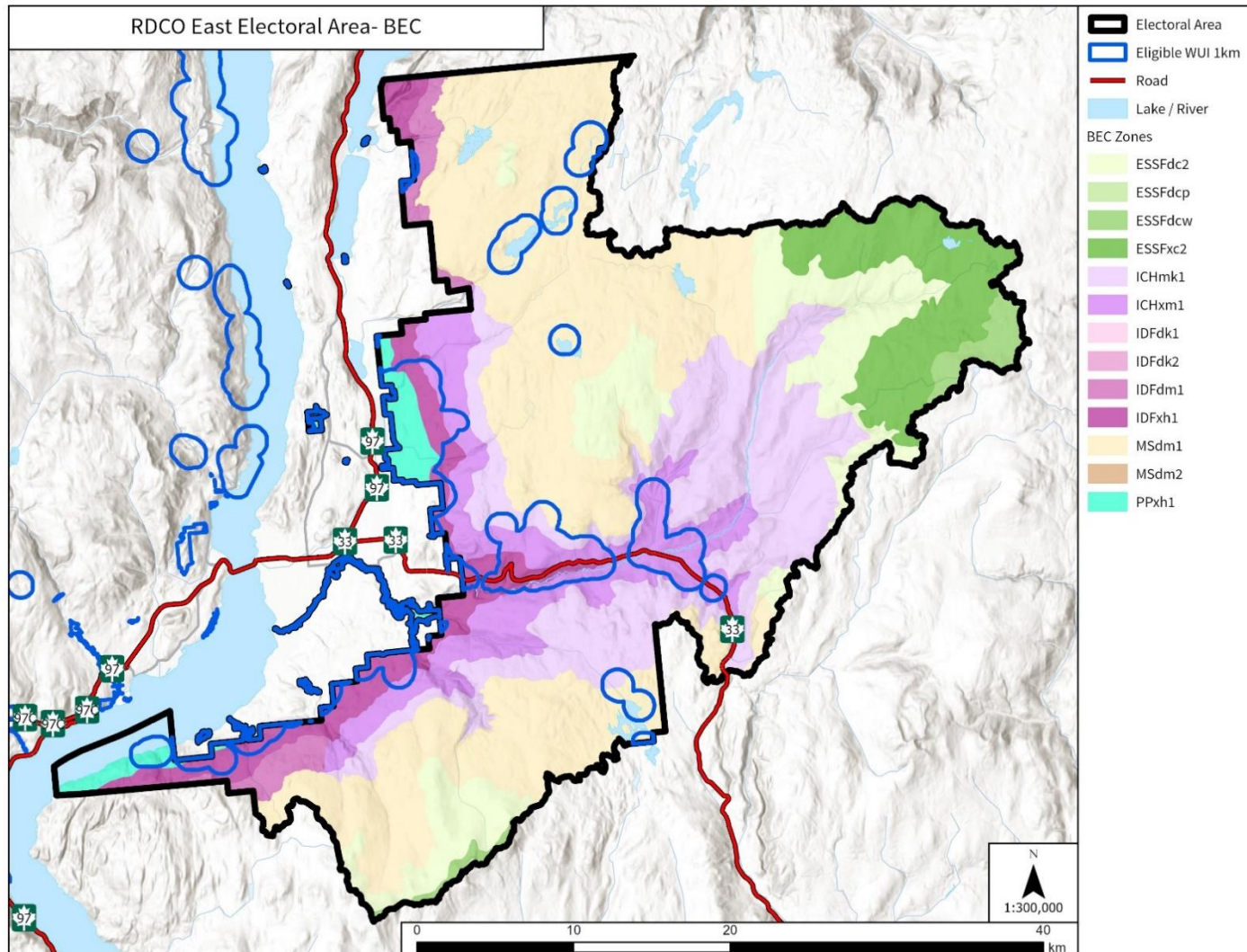


Figure 10. BEC Zone distribution for RDCO EA East.

#### 4.1.2.2 Natural Disturbance Types

The AOI spans five different BEC subzones. The Okanagan Interior Douglas-fir very dry hot (IDF<sub>vh1</sub>) and Okanagan Ponderosa Pine very dry hot (PP<sub>vh1</sub>), are a large component of the AOI and make up approximately 60% of the WUI. This is associated with an NDT4 regime – ecosystems with frequent stand-maintaining fires. These frequent fires would maintain the existing forest stand structure through frequent, low-intensity fires that would regulate the amount of surface fuel build-up and reduce the number of small, sapling-size generating trees. A higher frequency and a variable intensity of these types of fires across the landscape would create mosaics of uneven-aged forests and grassy or shrubby openings which naturally restricted the spread of large, severe fires. Surface fire return intervals for the IDF (and PP) BEC zones historically ranged from 4-50 years. Although rarer, stand initiating events in the IDF occurred at intervals ranging from 150-250 years.<sup>8</sup>

Approximately 20% of the RDCO WUI is characterized by NDT3 regime – ecosystems with stand-initiating events. These ecosystems are characterized by frequent wildfires that range from small spot fires to conflagrations covering tens of thousands of hectares.<sup>7</sup> This results in a landscape mosaic of stands of different age classes with individual stands being even aged. Larger fires often occurred and could grow to enormous sizes if no topographical limiting features were present. The mean return interval for fire in the MS and ICH NDT3 is approximately 150 years. The largest fires in the province occur in this NDT.

The enduring consequences of fire suppression on wildfire dynamics in North America are garnering growing attention. Decades of effective fire exclusion, coupled with the suppression of Indigenous cultural burning traditions, have resulted in a fire deficit in certain regions. In British Columbia, these practices have contributed to the densification of forest stands compared to the pre-suppression era in certain areas, consequently elevating the risk of large, high-intensity wildfires.<sup>9</sup> These alterations may disrupt the natural disturbance regime, highlighting the need for proactive management strategies to address these challenges.



Table 8. BEC and NDT Summary for the RDCO EA East and West WUI.

| BEC Zone and Subzone                         | Code    | NDT Regime | Area (ha)       | Area (%)     |
|----------------------------------------------|---------|------------|-----------------|--------------|
| Cascade Interior Douglas-fir dry cool        | IDFdk2  | 4          | 861.8           | 3.5%         |
| Okanagan Interior Douglas-fir very dry hot   | IDFhx1  | 4          | 9,392.1         | 38.3%        |
| Okanagan Ponderosa Pine very dry hot         | PPhx1   | 4          | 5,553.5         | 22.7%        |
| Shuswap Interior Cedar Hemlock very dry mild | ICHxm1  | 4          | 4,254.6         | 17.4%        |
| Kettle Interior Douglas-fir dry mild         | IDFdm1  | 4          | 32.0            | 0.1%         |
| Okanagan Montane Spruce dry mild             | MSdm1   | 3          | 2,812.2         | 11.5%        |
| Okanagan Interior Cedar Hemlock moist cool   | ICHmk1  | 3          | 885.7           | 3.6%         |
| Cascade Montane Spruce dry mild              | MSdm2   | 3          | 601.2           | 2.5%         |
| Cascade Englemann Spruce very dry cold       | ESSFxc2 | 3          | 104.2           | 0.4%         |
| <b>Total</b>                                 |         |            | <b>24,497.5</b> | <b>100.0</b> |

#### 4.1.2.3 Fuel Types

For fire behaviour prediction purposes, Canadian forests and grasslands are categorized into different Fire Behaviour Prediction (FBP) System fuel types. These fuel types have different vegetation species and structures (e.g. vegetation density); therefore, fire will behave differently in each fuel type. Table 9 outlines which fuel types are present in the RDCO AOI. More detailed descriptions of these fuel types can be found on the Natural Resources Canada website.<sup>12</sup>

Fuel types are named to reflect fire behaviour in different vegetation groups. However, since fuel types are used to describe an expected fire behaviour, they may not actually reflect the tree species that are on the ground. For example, the C3 (Mature Jack or Lodgepole Pine) fuel type does not necessarily indicate there is mature jack or lodgepole pine stands in and around the RDCO. Rather, these fuel types correlate the forest fuel complex with the expected fire behaviour. Fuel types should be regarded as the 'best fit' rather than strictly based on tree species.

<sup>12</sup> [FBP Fuel Type Descriptions](#). Natural Resources Canada.



Table 9. Canadian Fire Behaviour Prediction (FBP) System Fuel Types present within the RDCO AOI.

| Fuel Type    | Name                                                   | Fire Behaviour Characteristic                                                                                                                                                                                             | Area (ha)        | Area (%)      |
|--------------|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| C2           | Boreal Spruce                                          | A very volatile fuel type - C2 produces high intensity and fast-moving fires more easily than other fuel types. Fires can easily become crown fires.                                                                      | 4,646.1          | 2             |
| C3           | Mature Jack or Lodgepole Pine                          | Fastest rate of spread overall, however requires high wind speeds and low fuel moistures to reach this faster rate of spread than other fuel types.                                                                       | 70,060.6         | 30            |
| C4           | Immature Jack or Lodgepole Pine                        | young, dense stands with continuous ladder fuels; very high crown-fire potential. Rapid transition from surface to crown under wind/low moisture; high intensity and ember production.                                    | 650.3            | 0             |
| C5           | Red and White Pine                                     | More open crowns and higher crown bases than C3/C4; moderate rate of spread in typical conditions but can reach high intensity and intermittent crowning under strong winds or drought. Spotting possible.                | 7,182.8          | 3             |
| C6           | Conifer Plantation (spruce/pine/fir)                   | Even-aged, closely spaced rows with low crown bases and heavy needle litter; high continuity = high-intensity crown fire risk once ignited. Fast spread under wind; responds well to thinning and surface-fuel reduction. | 3,677.4          | 2             |
| C7           | Ponderosa Pine – Douglas Fir                           | Lowest rate of spread and lowest fire intensity of the conifer fuel types.                                                                                                                                                | 65,167.0         | 28            |
| D1/D2        | Deciduous (D1 leafless aspen, D2 green aspen)          | Lower rates of spread, lower ember production and lower fire intensity (than conifer) when trees have leaves. Often used in urban interface areas to reduce fire behaviour around values.                                 | 12,079.9         | 5             |
| M1/M2 25     | Mixed wood – 25% conifer                               | The rate of spread and intensity of fire depends on the conifer/deciduous mix. Higher conifer mix will have faster rates of spread, higher fire intensity and more embers produced.                                       | 14,254.0         | 6             |
| M1/M2 50     | Mixed wood – 50% conifer                               |                                                                                                                                                                                                                           |                  |               |
| M1/M2 75     | Mixed wood – 75% conifer                               |                                                                                                                                                                                                                           |                  |               |
| N            | Non-fuel                                               | Areas considered not flammable (irrigated fields, rock)                                                                                                                                                                   | 6,345.5          | 3             |
| O1a/b        | Grass                                                  | Fastest rate of spread potential.                                                                                                                                                                                         | 36,441.3         | 16            |
| S1/2         | Slash (Jack and lodgepole Pine or White Spruce/Balsam) | Slash resulting from clearcut logging, slash is typically one – to –two seasons old. Low threshold required for high fire intensity.                                                                                      | 2,481.5          | 1             |
| W            | Water                                                  | Land surface area covered by standing or running water (i.e., lakes, rivers)                                                                                                                                              | 7,704.0          | 3             |
| <b>Total</b> |                                                        |                                                                                                                                                                                                                           | <b>230,690.4</b> | <b>100.0%</b> |

The mapping of the FBP fuel types is created using an algorithm that will classify a polygon into the best-fit fuel type based on the BC Vegetation Resource Inventory (VRI) data. Although this forms a good starting point to create the FBP fuel type maps, there are limitations, and the FBP fuel type layers are verified during the fieldwork process. During the FBP field verification for the RDCO, there were several discrepancies identified. Many of the smaller greenbelt areas on municipal land between residential areas were classified as *no data-private land*. This may be due to the small size of these areas, so the algorithm does not pick up the area of municipal land surrounded by private land. It was also noted that several areas were denoted as the O1a/b grassland fuel type, when the area contained the stand structure and composition of the C-7 Ponderosa Pine – Douglas Fir.

The predominant fuel types, as per the FBP fuel type mapping are C-7, C-3, and O-1a/b – accounting for 74% of the AOI. C-7 and O-1a/b fuel types are predominant on the lower benches of the Okanagan Valley – and are characterized by fine, flashy surface fuels that are more readily available to ignition. These areas are more prone to frequent fires. C-3 fuel types, based on field validation, are often on the cusp of being C-7. Characterized by similar tree species – Douglas fir predominantly – but with higher stand density. These fuels may require higher fire weather indices to become available to ignite but when those conditions are met – result in faster spread rates and increased likelihood of crowning.

#### 4.1.2.4 Wildfire and Forest Pests

Wildfires in the RDCO continue to create conditions susceptible to Douglas-fir beetle attack. Fire damaged forests, forests experiencing the effects of drought conditions and heatwave events stress Douglas fir trees. Douglas fir beetles target large mature stems with moderate to severe fire impacts to lay their eggs in. As a result post-wildfire, beetle populations can increase rapidly in an area resulting in swaths of beetle-killed stands. Prompt action post fire must be taken to limit the spread and infestation through targeting the removal of particularly susceptible trees (severe scorch), prior to adult beetle emergence in the spring. In doing so reduce cascading implications to neighbouring healthy trees and stands.<sup>13</sup>

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<sup>13</sup> BC Ministry of Forests, 2021. [Wildfire, Drought, and Douglas fir beetles](#)

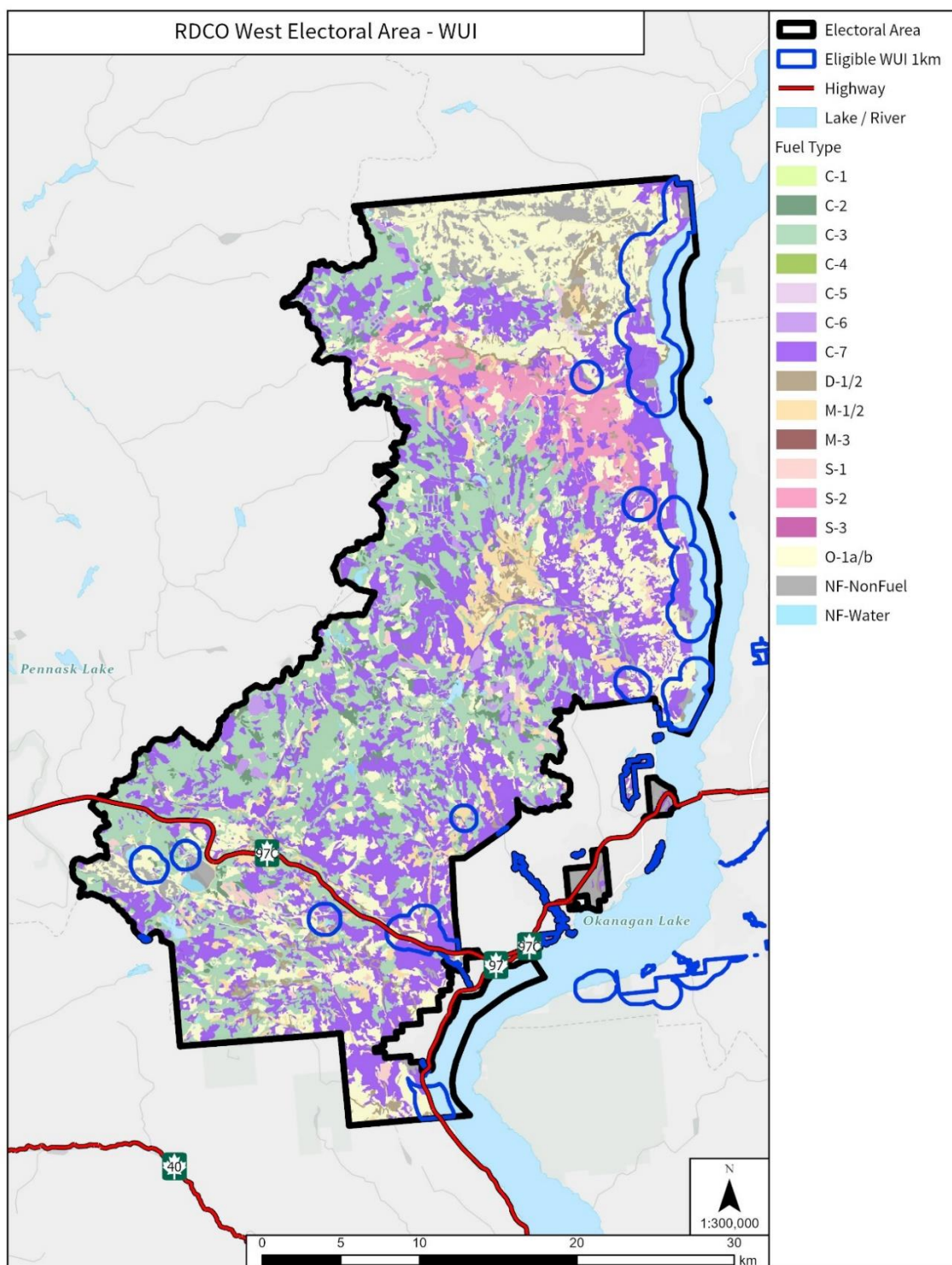


Figure 11. Fuel type spatial distribution for RDCO EA West.



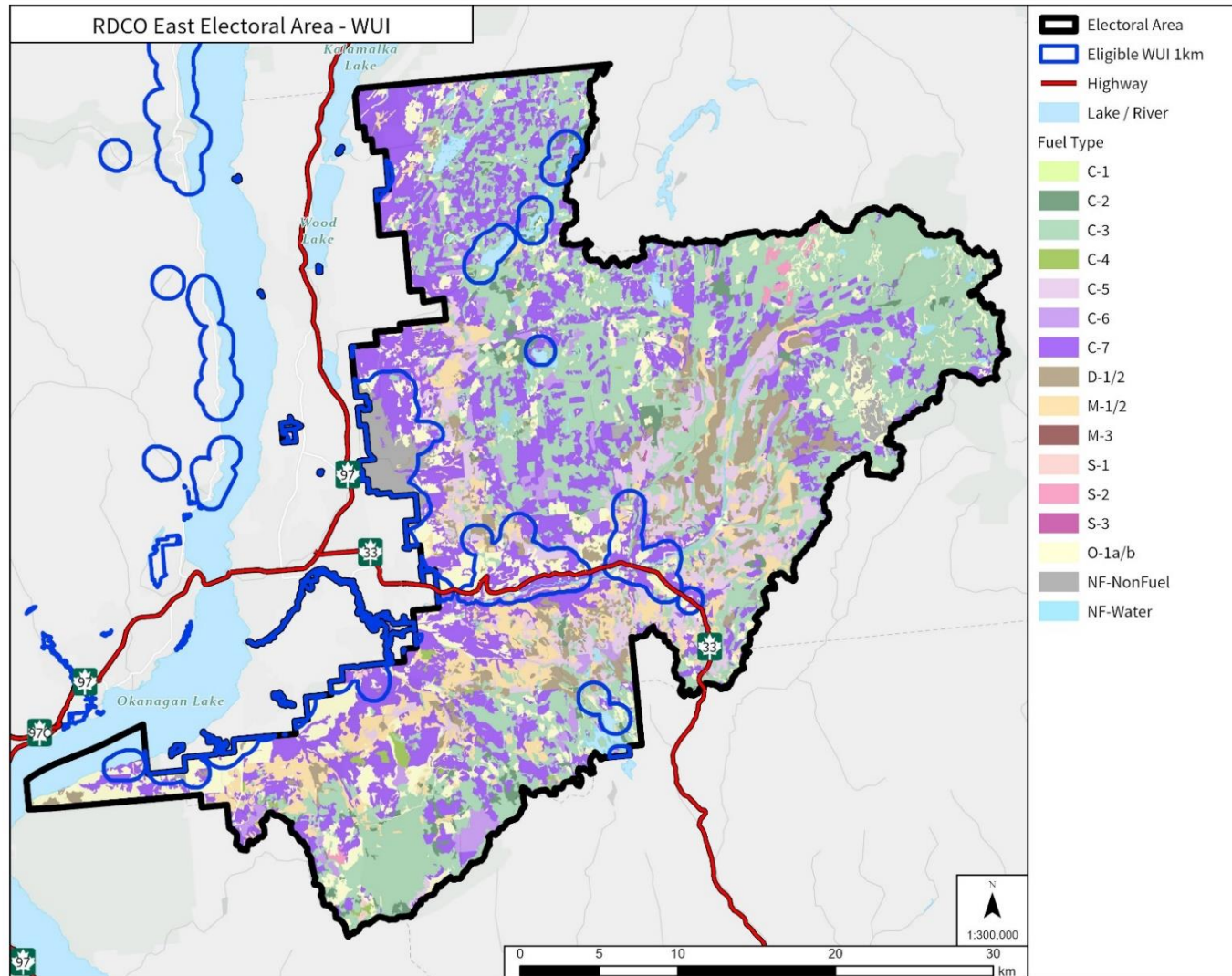


Figure 12. Fuel type spatial distribution for RDCO EA East.

### 4.1.3 Weather and Climate

The following weather attributes are critical factors that influence the combustibility, ignition, spread, and duration of wildfires:

- Temperature (°C)
- Relative humidity (%)
- Wind speed and direction (kph and Azimuth degree)
- Precipitation (mm)

Weather is the most variable component of the wildfire environment and has dynamic relationships with fuel and topography. Weather influences fuel moisture and the fuels subsequent combustibility. Weather is variable based on topographic conditions.

Active BCWS weather stations that best represent the RDCO AOI have been utilized in the analysis for this CWRP. Weather station information is provided in Table 10.

Table 10. Weather station information for AOI

| Fintry - ID 96 Code: 298                                                                                                                                                                                                                        |                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| The weather station data for Fintry is used to proxy the weather that characterizes the lakeshore and lower benches of the AOI – where densely populated communities and CI are most prominent.                                                 |                |
| Network                                                                                                                                                                                                                                         | BCWS           |
| Coordinates                                                                                                                                                                                                                                     | 50.21, -119.48 |
| Elevation                                                                                                                                                                                                                                       | 526m           |
| Idabel Lake 3 - ID 199 Code: 876                                                                                                                                                                                                                |                |
| The weather station data for Idabel Lake is used to proxy the weather that characterizes the high elevation upland plateaus – where large landscape fires have historically originated and moved into the lower benches of the Okanagan valley. |                |
| Network                                                                                                                                                                                                                                         | BCWS           |
| Coordinates                                                                                                                                                                                                                                     | 49.77, -119.12 |
| Elevation                                                                                                                                                                                                                                       | 1,246m         |

This report analyzed weather data from both the Fintry and Idabel Lake 3 weather stations throughout the wildfire season months of **April through October from 2014 to 2023**. Resulting trends align with regional fire hazard patterns, showing that warming spring days with lower moisture levels result in cured fuels until

the green-up phase in late May or June. Cumulative warming from July and August temperatures contributes to late summer drying effects, increasing the availability of fuels across all strata (surface, ladder, and crown) and leading to an increase in potential fire intensity, severity, and difficulty of control in the mid to late summer months.

#### 4.1.3.1 Temperature

Figure 13 indicates that weather data for both stations have temperatures with 12:00 averages peaking in July at 27°C (Fintry) and 22°C (Idabel Lake 3). June shows the greatest variability in temperature extremes.

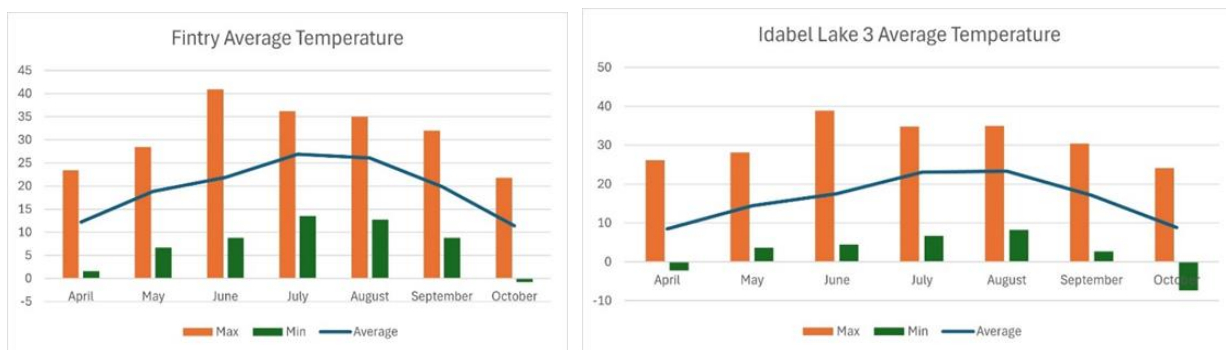


Figure 13. Average monthly air temperature observed at Fintry and Idabel Lake Weather stations between 2014-2024.

#### 4.1.3.2 Precipitation

Figure 14 indicates that the average precipitation data for both weather stations is consistently well-below 5mm / month and hovers around 1-2mm. Maximum precipitation amounts observed at Fintry for all months during the fire season are consistently between 15-20mm, with the months of April, May and October experiencing the most precipitation at approximately 20mm. Idabel Lake 3 weather station has a greater variability of precipitation between 17-37mm with June having the greatest amount. Each graph also shows that for each month during the fire season; there are many days which receive no precipitation.



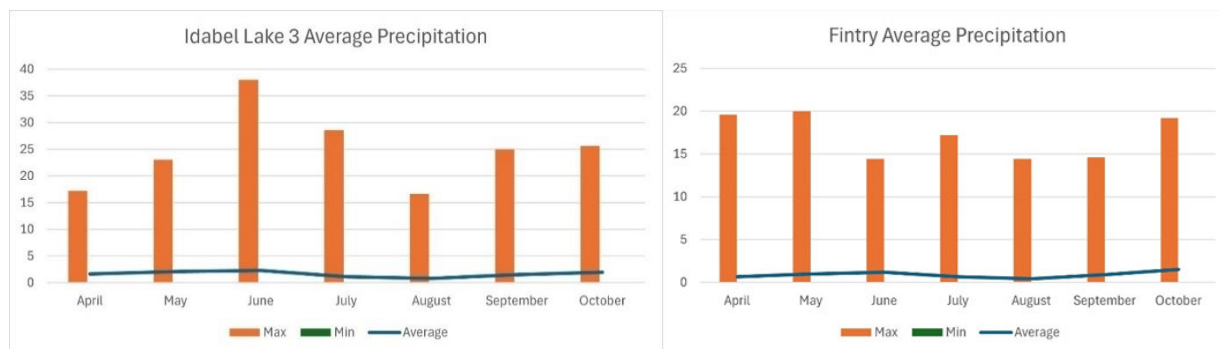


Figure 14. Average monthly precipitation levels (mm) observed at Fintry and Idabel Lake weather stations between 2014 and 2024. Note: minimum precipitation is 0mm.

#### 4.1.3.3 Relative Humidity

Data in Figure 15 below indicates that average relative humidity is at 50% in April and May, peaks at the beginning of June before continuing a slight downward trend throughout June and into July before steadily increasing throughout the months of August-October. July has the lowest relative humidity level in the summer.

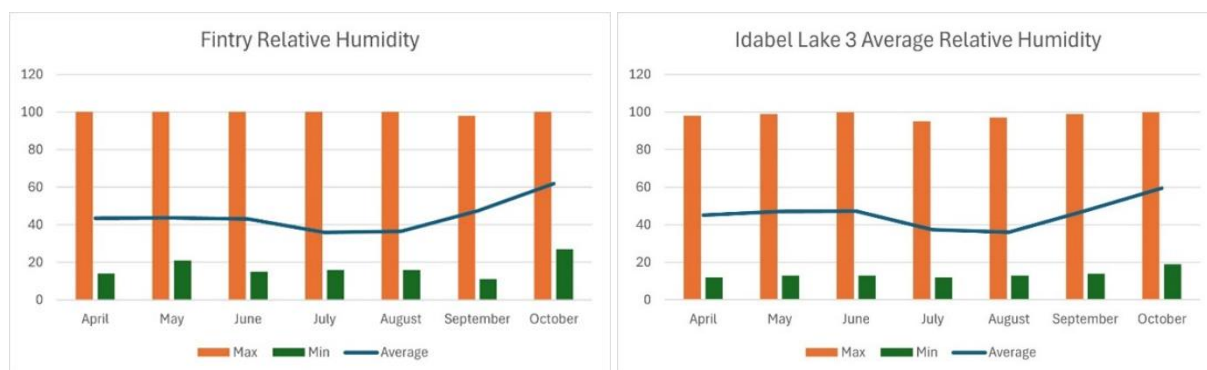


Figure 15. Average monthly relative humidity amounts (measured by percentage) for Fintry and Idabel Lake weather stations.

#### 4.1.3.4 Wind

Wind speed and direction are the most variable factors influencing fire behaviour, contributing to the unpredictability of fire behaviour, intensity, and severity. Over the past decade, wind driven events and observations highlight the importance of considering high wind speeds in any direction, not just the predominant wind direction that characterizes an area. While historical data can aid in prioritizing treatment's locations, communities must be prepared for wind-driven fires from any direction.

**The lakeshore and lower benches (Fintry weather station)** daytime flows are typically valley- and lake-breeze driven, trending up-valley along Okanagan Lake with NW–SE components and the strongest gusts

mid-afternoon on warm, dry days. Nocturnal periods favour down-valley/downslope (SE–S) drainage, lighter but occasionally gusty with frontal passages.

- Spring (Apr–Jun) sees more frontal wind shifts and higher sustained speeds;
- midsummer (Jul–Aug) brings frequent dry, gusty NW–N breezes over cured grass fuels;
- early fall (Sep–Oct) moderates overall speeds but can produce sharp shifts with passing systems.

These patterns support fast grass-fire spread along benches and wind-alignment runs on west-side slopes.

**The mid to high elevation, upland plateaus (Idabel Lake 3 weather station)** show terrain-channelled W–NW afternoon winds under fair-weather regimes. Overall speeds are lower than those exhibited in lower benches.

- Spring (May–June) sees gusty outflows with passing fronts
- midsummer (July–Aug) afternoons often feature moderate W–NW breezes that align runs through open forests,
- early fall (Sep–Oct) trends calmer with more variable directions under transitional weather.

Unpredictable wind shifts associated with thunderstorms and along ridge-top gaps support shifts in wildfire spread direction.

#### 4.1.3.5 Initial Spread Index (ISI) Roses

The Initial Spread Index (ISI) is one of the six components of the Canadian Fire Weather Index (FWI) system. The ISI is a numerical rating of expected fire spread in consideration of wind speed and fuel moisture content. ISI Roses for the Fintry and Idabel Lake 3 weather stations are used to further assess wind patterns that characterize the RDCO. Understanding wind patterns is pertinent to the effective placement of fuel treatment in consideration of predominant wildfire spread direction and value location on the landscape.

ISI roses depict the frequency of counts by wind direction and ISI values over a given time period. The length of a wind rose ‘petal’ indicates the number of wind counts while the colour depicts the corresponding ISI recorded for a given wind direction (Figure 16 and Figure 17). The following figures provide monthly averages (at 1300PST) from April to October on the left, and daily period averages for the month of August on the right. Of specific interest is the diurnal wind shift that the daily period averages illustrate. Diurnal winds result from temperature discrepancies between the land and water. In the day the land heats up faster than water, creating a low-pressure area over the land resulting in winds blowing from the water towards the land. The reverse occurring at night where winds move from land back to water. Steep slopes, like those in the Okanagan Valley can exacerbate these patterns.

Wind speed and direction are the most variable factors during a fire season. Fire behaviour and severity observed over the past decade highlights that wind from any direction can result in wildfires of extreme consequence.

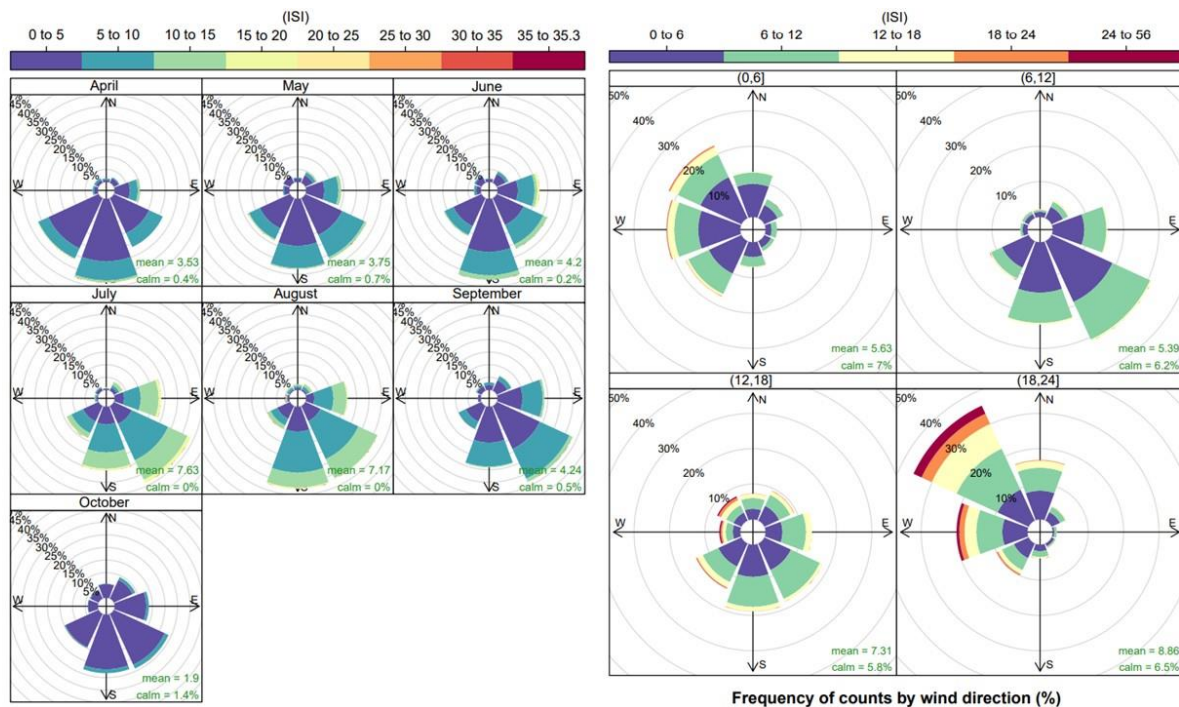


Figure 16. Initial Spread Index (ISI) Rose for the Fintry weather station observations between 1996 – 2015. Monthly averages (left), and August daily period averages (right). Daily period averages are binned into periods of six hours (00:00-06:00, 06:00-12:00, 12:00-18:00, 18:00-24:00).

As per the Fintry Monthly ISI Rose on the left, Figure 16, a predominant south-southeast up valley wind characterizes the fire season, attributed to the longer petals associated with those directions. Proving a classic valley-lake developed breeze where heating of Okanagan Lake and the Okanagan Valley lowlands draws air up valley/ up slope. The thermal driven southerly winds, especially in July and August, couple with higher temperatures and lower relative humidity resulting in season-high mean ISI, illustrated by the predominant blue and green colouring of the petal.

As per the Fintry daily period averages of August ISI Rose on the right, Figure 16, south-southeast up valley winds are predominant during the daytime hours (06:00 – 12:00 and 12:00 – 18:00). However, diurnal cooling presents a prevailing wind shift from the northwest during the nighttime hours (18:00 – 24:00).

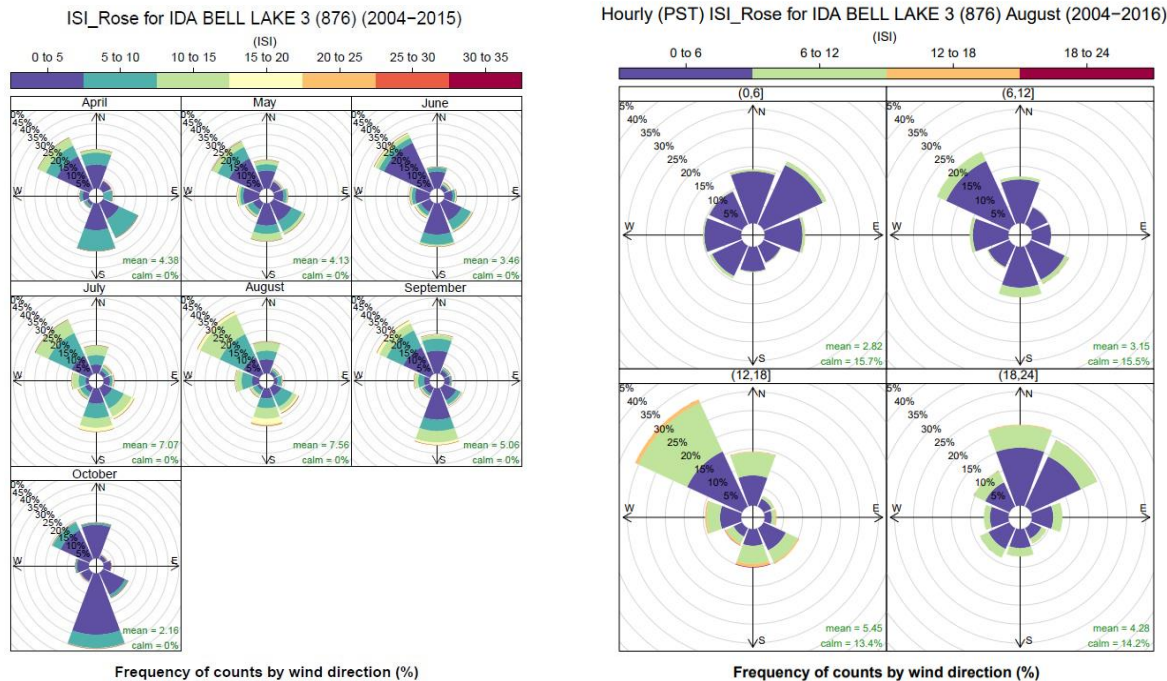


Figure 17. Initial Spread Index (ISI) Rose for the Ida Bell lake weather station observations between 2004 – 2015 for April through October (left) and August hourly averages (right). Hourly averages are binned into periods of six hours (00:00-06:00, 06:00-12:00, 12:00-18:00, 18:00-24:00).

As per the Ida Bell Lake Monthly ISI Rose on the left, Figure 17, the fire season is characterized by a northwest prevailing wind. Into the early fall this shifts to a southerly wind. Winds here are influenced more by plateau-drainage and ridge-gap flows. The influences of complex topography at higher elevations can result in unpredictable wind shifts.

As per the Ida Bell daily period averages of August ISI Rose on the right, Figure 17, northwest winds are predominant during the daytime hours (06:00 – 12:00 and 12:00 – 18:00). However, diurnal cooling presents a prevailing wind shift from the northeast from 18:00 – 24:00.

#### 4.1.3.6 Climate Change

The province of BC has experienced its most severe wildfire seasons of the last half-century, occurring in 2017, 2018, 2021, and 2023, all characterized by extreme weather conditions. The recent surge in fire activity is not entirely unexpected, given recent weather extremes. However, what is surprising is the early emergence of increased wildfire activity around 2000 - decades earlier than anticipated from climate models coupled with the magnitude of fire-season severity. For instance, three of the past seven years saw more than 1 million hectares burned - more than 1% of the land area – compared to only three wildfire seasons from 1919 to 2016, exceeding 0.5 million hectares. Additionally, the average length of the wildfire season, as inferred from weather records (measured by the number of frost-free days) and the onset of fire activity



(defined as the date when 2% of the year's total area burned was reached), has increased by 26.7 and 27.1 days, respectively, since the early 20th century.<sup>14</sup>

The Pacific Climate Impacts Consortium (PCIC) is a non-profit corporation that conducts quantitative studies on the impacts of climate change and climate variability.<sup>15</sup> Projected climate change data from the PCIC presents a comprehensive view of potential climate change risks and impacts. Strong trends in temperature and precipitation, as well as an integrated measure of the two, the moisture deficit, have been observed in BC over the past century. Annual area burned correlates significantly to the climatic moisture deficit (CMD); even when total precipitation levels remain high, rapid warming results in increased evaporation demand. It is estimated that for every degree of warming, a minimum increase of 15% in precipitation is required to compensate for increased biomass flammability.<sup>16</sup>

Table 11. Projected change in temperature and precipitation in the Central Okanagan Region.

| Climate Variable  | Season | Projected change from historical baseline (1981-2010) to the 2030s (2021 – 2050) for the Central Okanagan region |                  |
|-------------------|--------|------------------------------------------------------------------------------------------------------------------|------------------|
|                   |        | Average from 1981-2010                                                                                           | Ensemble Median* |
| Temperature (°C)  | Annual | 5.0 °C                                                                                                           | +1.6 °C          |
|                   | Spring | -4.3 °C                                                                                                          | +1.4 °C          |
|                   | Summer | 14.7 °C                                                                                                          | +2.2 °C          |
| Precipitation (%) | Annual | 1.86mm/day                                                                                                       | -0.4%            |
|                   | Spring | 1.61mm/day                                                                                                       | -5.0%            |
|                   | Summer | 1.60mm/day                                                                                                       | -14.2%           |

\*The ensemble median is a mid-point value, chosen from a PCIC standard set of Global Climate Model (GCM) projections.

Based on the projects from the PCIC, by the 2030s, the Central Okanagan region is expected to experience an overall increase in annual temperature of 1.6°C. Spring and summer precipitation is projected to decrease by 5 and 14%, respectively. The combination of reduced precipitation and rising temperatures is expected to increase fuel availability and escalate potential fire behaviour in the region.

<sup>14,16</sup> Parisien, M. A., Barber, Q. E., Bourbonnais, M. L., Daniels, L. D., Flannigan, M. D., Gray, R. W., ... & Whitman, E. (2023). Abrupt, climate-induced increase in wildfires in British Columbia since the mid-2000s. *Communications Earth & Environment*, 4(1), 309.

<sup>15</sup> [Pacific Climate Impacts Consortium](#). 2024.

## 4.2 Wildfire History

Wildfire is a common occurrence in the RDCO and surrounding area. The RDCO is situated within a NDT4, ecosystems characterized by frequent stand-maintaining fires. Notable large, landscape level fires in the Okanagan region over the past five years are detailed in the following table

Table 12. Notable fires in the Okanagan region

| Fire                 | Year | Information                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nighthawk Fire       | 2017 | Starting on July 15th, this fast-moving wildfire originated near the shoreline of Okanagan Lake and spread towards Nighthawk Road and is believed to be caused by arson. The fire rapidly spread uphill, growing to approximately 50 ha, engulfing seven homes and damaging 30 other properties. <sup>17</sup>                                                                                                                                 |
| White Rock Lake Fire | 2021 | First detected on July 13th and caused by the lightning, this fire consumed 83,342 hectares by the end of the fire season. It prompted evacuation alerts for the City of Vernon and the City of Armstrong.                                                                                                                                                                                                                                     |
| McDougall Creek Fire | 2023 | First detected on August 15th near West Kelowna, the fire grew to approximately 13,500 hectares and caused the evacuation of 35,000 people. The fire jumped Okanagan Lake in two locations into the City of Kelowna and District of Lake Country. The cause of the fire is still under investigation.                                                                                                                                          |
| Clarke Creek Fire    | 2023 | On August 17, 2023, as the McDougall Creek wildfire rapidly expanded, four separate wildfires ignited in the Clarke Creek area, likely caused by ember transport across Okanagan Lake from the McDougall Creek wildfire. In response, a local state of emergency was declared. The Clarke Creek wildfire destroyed four homes, damaged numerous structures and reached an estimated final size of 372 hectares before being held on August 24. |
| Munro Lake Fire      | 2025 | First detected on September 25, 2025, southwest of Peachland. As of Oct 1, 2025, the fire size is approximately 380 hectares. The fire caused 325                                                                                                                                                                                                                                                                                              |

<sup>17</sup> [2017's Top Stories: Okanagan Centre fire.](#)



|  |                                                                                              |
|--|----------------------------------------------------------------------------------------------|
|  | homes to be evacuated and 1100 homes to be on alert. The cause is still under investigation. |
|--|----------------------------------------------------------------------------------------------|



Figure 18. McDougall Creek wildfire in 2023 (source: John Davies).

### 4.2.1 Historic Wildfire Analysis

A historical wildfire analysis was conducted for the RDCO and the surrounding area. Using data from the *BC Wildfire Fire Incident Locations - Historical database*, examines the types of wildfires within the RDCO AOI from 1920 to 2024.<sup>18</sup> Wildfire has been a persistent landscape process across RDCO, with burns recorded pre-1990, 1990–2010, and 2011–2024 (Figures 21 and 22). Recent fire activity (2011–2024) is concentrated near the Okanagan Lake valley corridor and along accessible foothills where fuels, slope, wind exposure, and human use overlap. Ignition points cluster strongly within and adjacent to the 1-km WUI around communities, roads, and recreation nodes. Cause coding shows a high density of human-caused and unknown ignitions near settled areas, with lightning ignitions more common in uplands.

<sup>18</sup> Historical wildfire data sets are available from [BC Data Catalogue](#)

Most settled valleys and benches fall in NDT4–NDT5 (frequent stand-maintaining fire regimes), while higher/upland blocks include NDT3 and pockets of NDT2. This mix supports both fine-fuel, fast-moving interface fires in lower elevations and larger-footprint wildfires in contiguous forested uplands under drought/wind alignment.

**RDCO Electoral Area West:** As illustrated in Figure 19, numerous burn polygons on the west side of Okanagan Lake and south toward Peachland indicate an uptick in modern-era fire footprints (2011 – 2024). These align with steep, south- and west-facing slopes that dry quickly and channel valley winds. Pre-1990 and 1990–2010 records show larger, landscape-scale burns, whereas recent activity is mostly small, quickly controlled fires near the ignition points. Dense clusters of human/unknown ignitions account for 44.6% of ignitions and trace Highway 97, lakeshore communities, recreation sites, and Forest Service Road (FSR) networks; lightning ignitions, 55.4% of starts, increase westward into higher-elevation forests.

Table 13. Area burnt for Electoral Area West summarized in hectares and by percentage.

|                                    | Lightning | Person   | Unknown  | Total    |
|------------------------------------|-----------|----------|----------|----------|
| <b>Total Area Burnt (ha)</b>       | 42,136.70 | 23,093.9 | 10,757.0 | 75,987.6 |
| <b>Percentage of Wildfires (%)</b> | 55.4      | 30.4     | 14.2     | 100.00   |

**RDCO Electoral Area East:** As illustrated in Figure 20, Modern (2011-2024) wildfire occurrences appear along the east benches above Kelowna/Lake Country and toward the Graystokes foothills, with polygons bridging between valley development and contiguous upland fuels. Pre-1990 and 1990–2010 polygons are distributed across mid- to high-elevation forests, reflecting periodic landscape-scale fire prior to the recent era of intensive suppression. Human/unknown ignition density accounts for 58.5% of ignition starts and follows settlement, trailheads, utility corridors, and road access; lightning ignitions, 41.5% populate interior uplands.

Table 14. Area burnt for Electoral Area East summarized in hectares and by percentage.

|                                    | Lightning | Person   | Total    |
|------------------------------------|-----------|----------|----------|
| <b>Total Area Burnt (ha)</b>       | 17,850.60 | 12,686.2 | 30,536.8 |
| <b>Percentage of Wildfires (%)</b> | 58.5      | 41.5     | 100.00   |

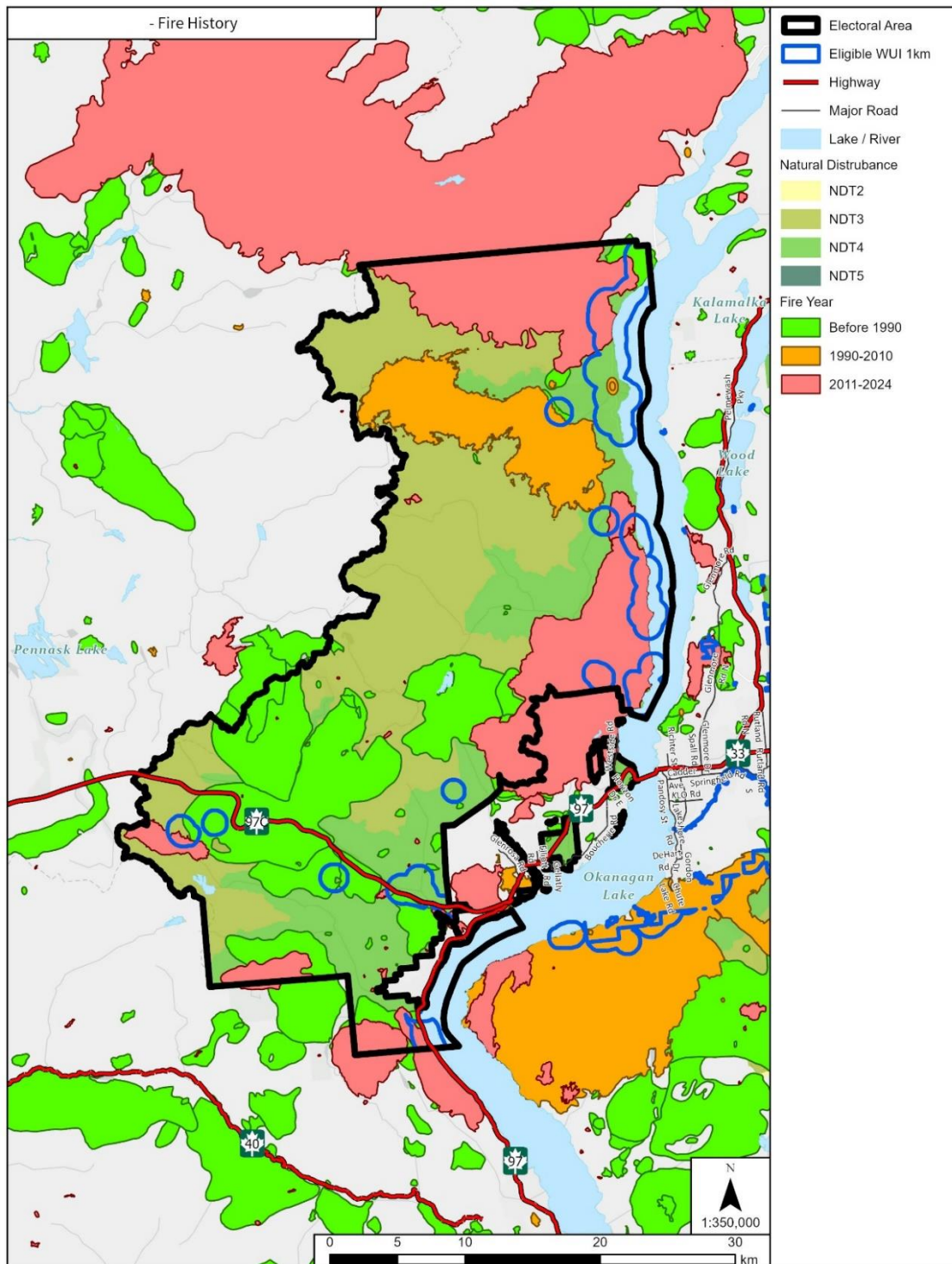


Figure 19. Fires from 1920 to 2024 in the RDCO electoral area West and surrounding area.



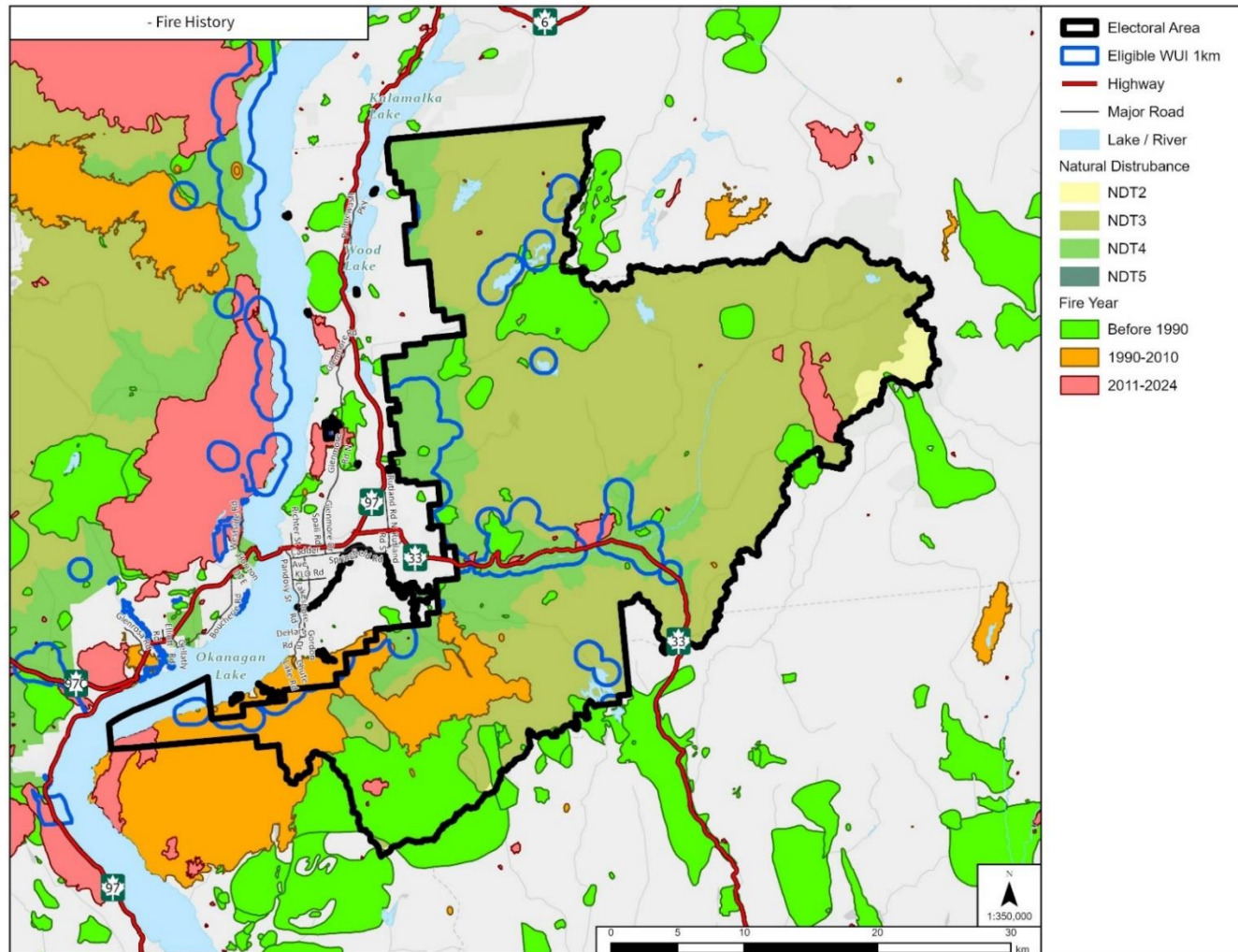


Figure 20. Fires from 1920 to 2024 in the RDCO electoral area East and surrounding area

### 4.3 Provincial Strategic Threat Analysis (PSTA)

The BC Wildfire Service developed the Provincial Strategic Threat Analysis (PSTA) to evaluate and forecast potential wildfire threats. Leveraging provincial fuel type mapping, historical fire occurrence data, topography, and historical weather station data, the PSTA generates an overall wildfire threat score. Outputs from the PSTA include information and maps delineating fuel types, historical fire density, the potential for embers to land in an area (spotting impact), head fire intensity, and wildfire threat. Further details regarding the derivation of the PSTA dataset are available through the BC Wildfire Service.<sup>19</sup>

It is important to note that the PSTA does **not include assessment of private property**. Since approximately 36% of the WUI within the RDCO is privately owned, this leaves a significant portion of the area unassessed.

**Error! Reference source not found.** shows that approximately 9,506 hectares (39%) within the RDCO WUI is classified as either High or Extreme Threat. However, it is important to note that the PSTA, which is developed spatially by the Province and BC Wildfire Service, can differ from field-based observations. For example, areas that have been fuel treated are often not reflected in the PSTA dataset. For more accurate on-the-ground findings, please refer to the section 4.5 Local Wildfire Threat Assessment.

Table 15. PSTA Fire Threat class and associated areas for the RDCO WUI.

| Fire Threat Class      | Area (HA) | Percentage (%) |
|------------------------|-----------|----------------|
| Extreme                | 2,676.7   | 11%            |
| High                   | 6,829.7   | 28%            |
| Moderate               | 2,083.8   | 9%             |
| Low                    | 241.0     | 1%             |
| No Data (Private Land) | 8,915.8   | 36.5%          |
| Water                  | 3,472.3   | 14.5%          |
| Total                  | 24,497.5  | 100%           |

As previously stated, large landscape fires characterized by extreme fire behaviour have historically moved from the surrounding plateaus into the Okanagan Valley. To account for these risks beyond the immediate WUI, PSTA threat class for a 5-kilometer buffer around the RDCO AOI was assessed.

<sup>19</sup> [2021 Update: Provincial Strategic Threat Analysis \(PSTA\).](#)



Table 16. PSTA Fire Threat classification for the RDCO and a 5-kilometer buffer.

| Fire Threat Class      | Area (HA)  | Percentage (%) |
|------------------------|------------|----------------|
| Extreme                | 100,850.13 | 39.6           |
| High                   | 84,067.16  | 33.1           |
| Moderate               | 36,574.18  | 14.4           |
| Low                    | 6,616.09   | 2.6            |
| No Data (Private Land) | 14,477.42  | 5.8            |
| Water                  | 11,352.50  | 4.5            |
| Total                  | 253,937.5  | 100%           |

Looking beyond the WUI, approximately 75% of the delineated area is classified as Extreme or High Threat. This highlights the threat to the RDCO that occurs outside the WUI and emphasizes the importance of advocating for coordinated fuel management and wildfire management efforts at a landscape scale.

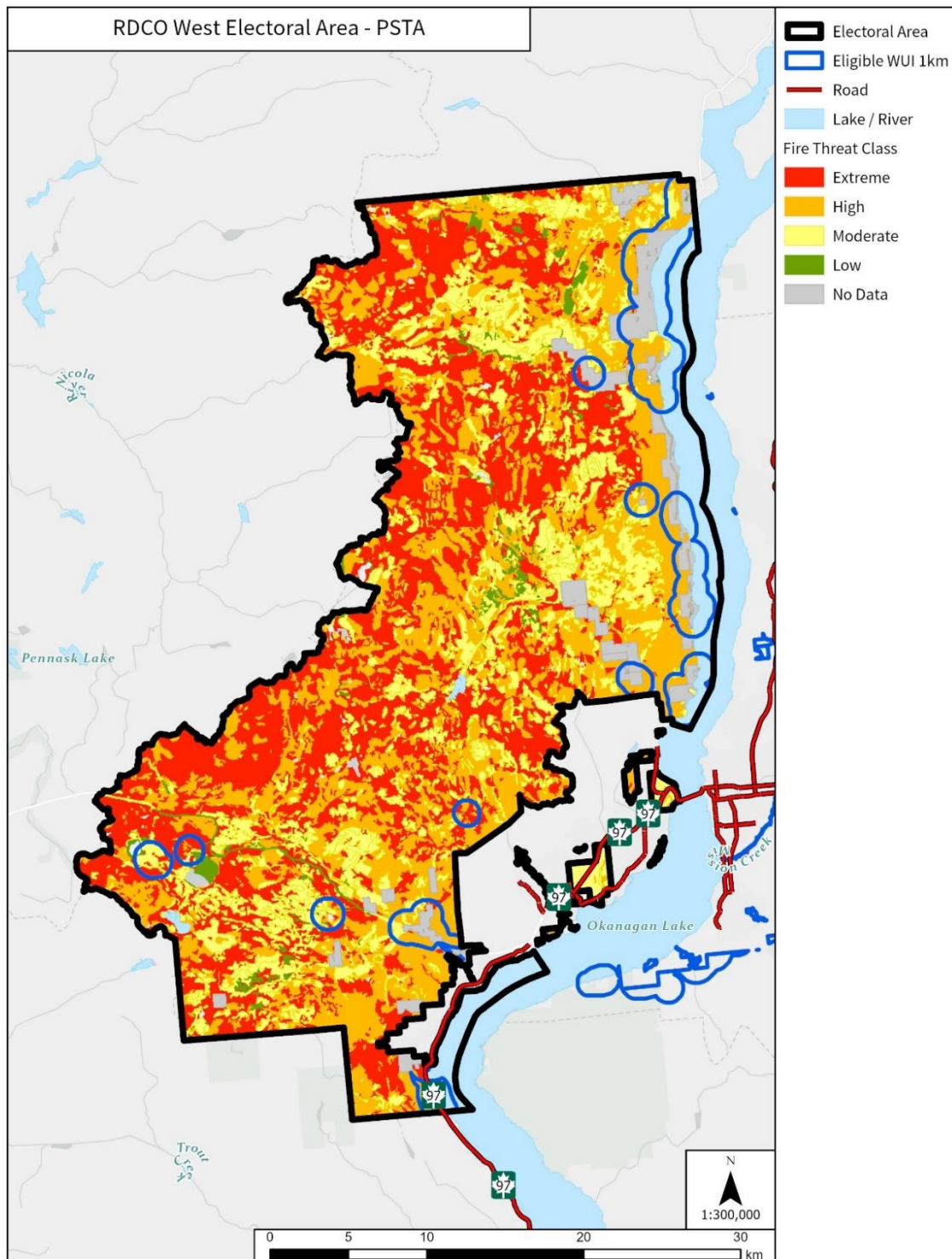


Figure 21. Provincial Strategic Threat Analysis (PSTA) threat layer for RDCO Electoral Area West.

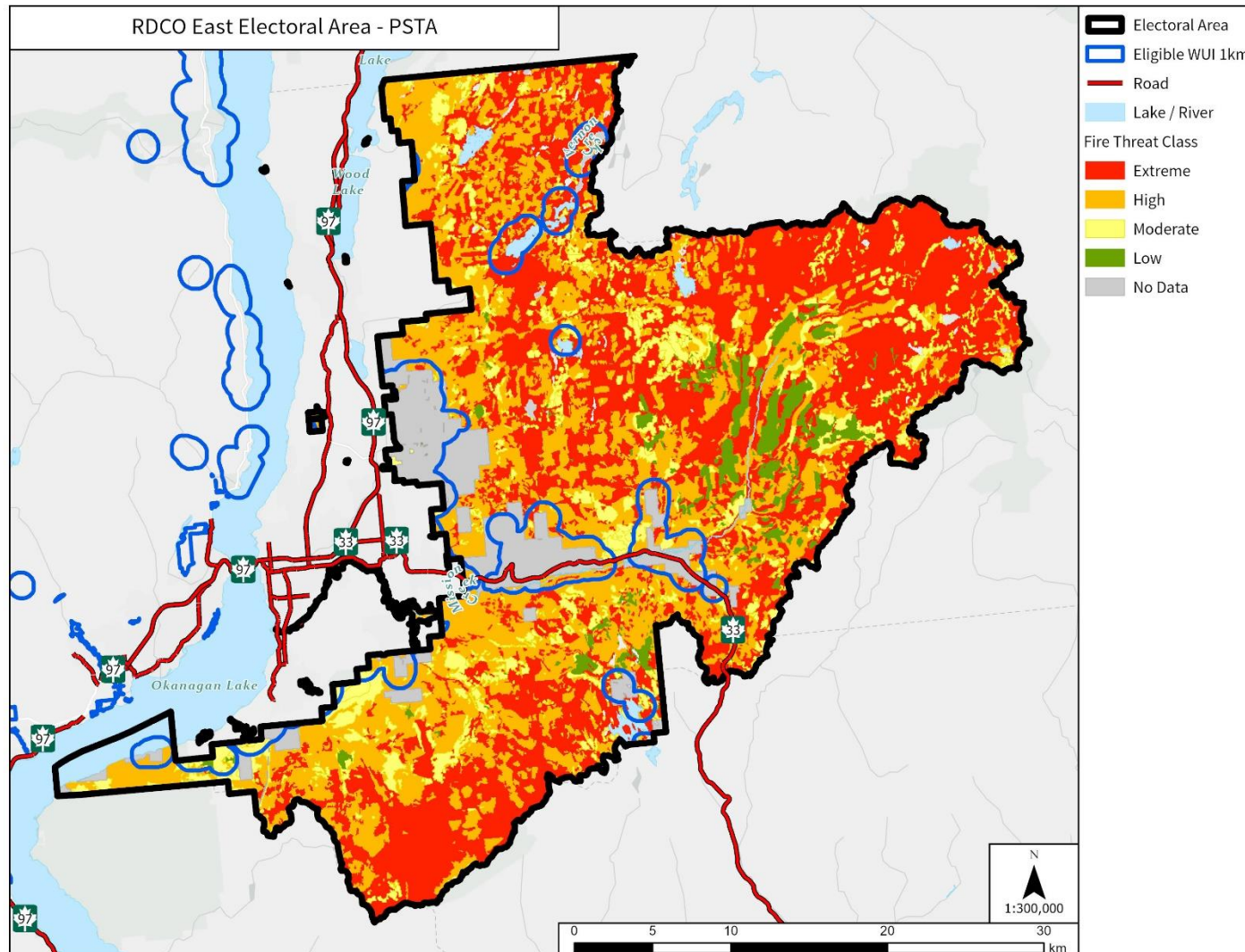


Figure 22. Provincial Strategic Threat Analysis (PSTA) threat layer for RDCO Electoral Area East.

## 4.4 Hazard, Risk, and Vulnerability Assessment

The Hazard, Risk, and Vulnerability Analysis (HRVA) is an organized process to identify hazards that may trigger an emergency response and assign a hazard rating based on the likelihood and potential consequences of those hazards. Understanding local hazards and risks helps a community establish priorities, plans and strategies to prevent or reduce the risks. Hazard-specific guides provide additional guidance for responding to specific emergency situations and address the essential operational actions to facilitate effective response to that specified emergency event.

When developing the CWRP, no *Hazard Risk and Vulnerability Assessment* (HRVA) was available for review. HRVAs are a mandatory requirement under the Emergency and Disaster Management Act. The RDCO has approved funding for the development of an HRVA that aligns with the new EDMA legislation.

## 4.5 Local Wildfire Threat Assessment

To develop this CWRP, on-the-ground verification and assessment of local vegetation types and the inherent wildfire threat of forested areas within and around communities were conducted. The local wildfire threat assessment for the RDCO utilized the *2020 Wildfire Threat Assessment Guide and Worksheets* from BCWS, which focus on forest stand attributes and fuel structure, independent of fire weather and other fire behaviour components contained in the PSTA data. The assessment process targeted areas mapped as having potentially threatening fuel types and involved completing threat assessment worksheets.

A total of 61 Wildfire Threat Assessment (WTA) plots were conducted on municipal and crown land within the WUI in July of 2025. The exact location of WTA's are illustrated in Figure 23 and Figure 24. The following table outlines the threat rating results of the WTAs completed for this CWRP.

Table 17. Summary of Wildfire Threat Assessments for RDCO AOI.

| Wildfire Threat Assessment Rating | EA East – Number of WTAs | EA West – Number of WTAs |
|-----------------------------------|--------------------------|--------------------------|
| Extreme                           | 0                        | 0                        |
| High                              | 10                       | 1                        |
| Moderate                          | 15                       | 19                       |
| Low                               | 6                        | 10                       |

WTAs in general were found to have Moderate to High ratings. Private land was not assessed; the condition and hazard of forested private land is difficult to determine and may not reflect the Moderate to High ratings observed on municipal and crown land. The RDCO has been proactive in managing fuels in forested areas, which has contributed to lower threat scores in some areas.



It is important to understand that the concept of wildfire threat, as used in this assessment, differs from wildfire risk. Wildfire threat, in this context, does not consider proximity to values or the potential consequences of damage to those values in a wildfire event. Instead, it focuses on the inherent danger posed by the local vegetation types and fuel structure.



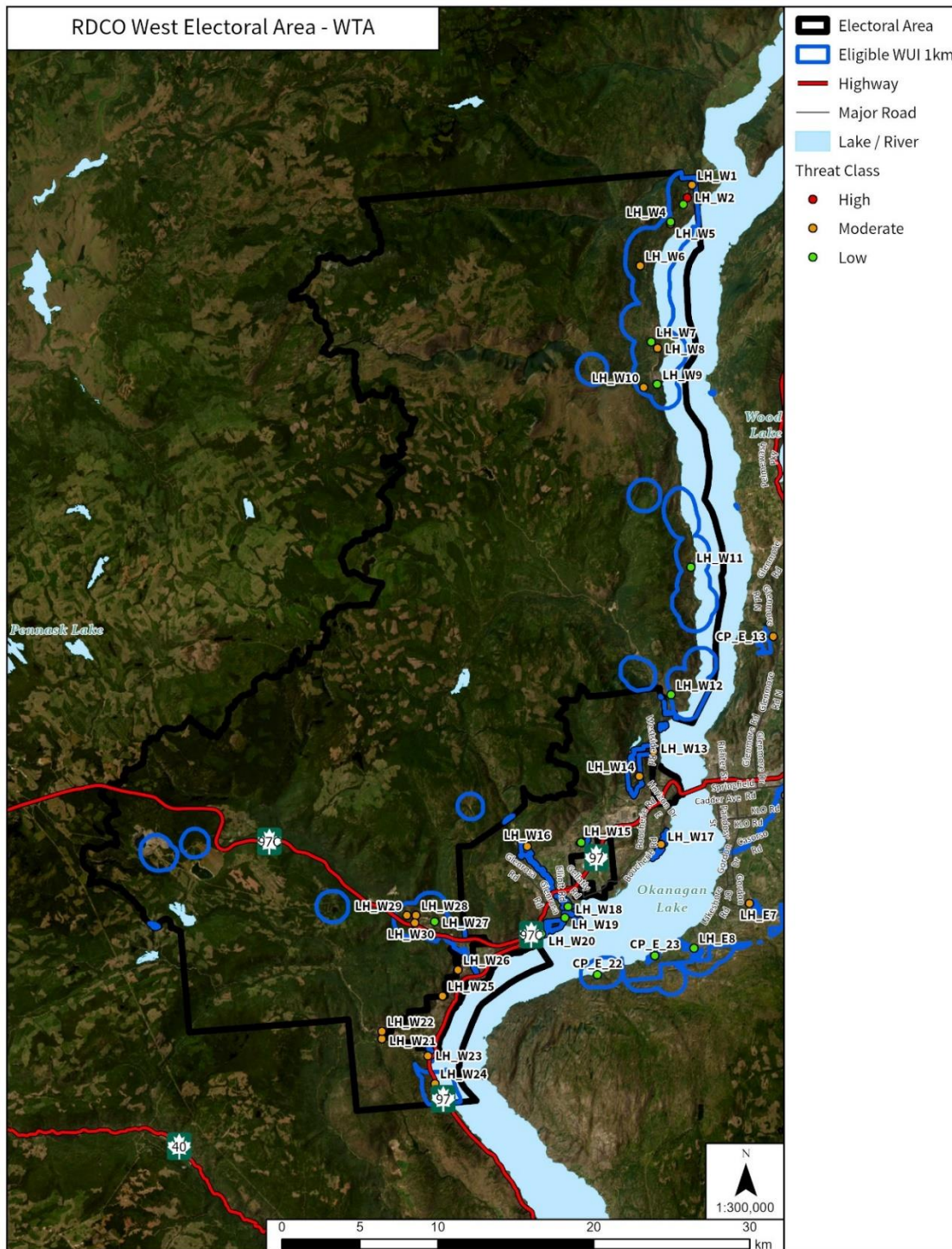


Figure 23. Location of Wildfire Threat Assessments and their associated threat class ranking in RDCO electoral area West.



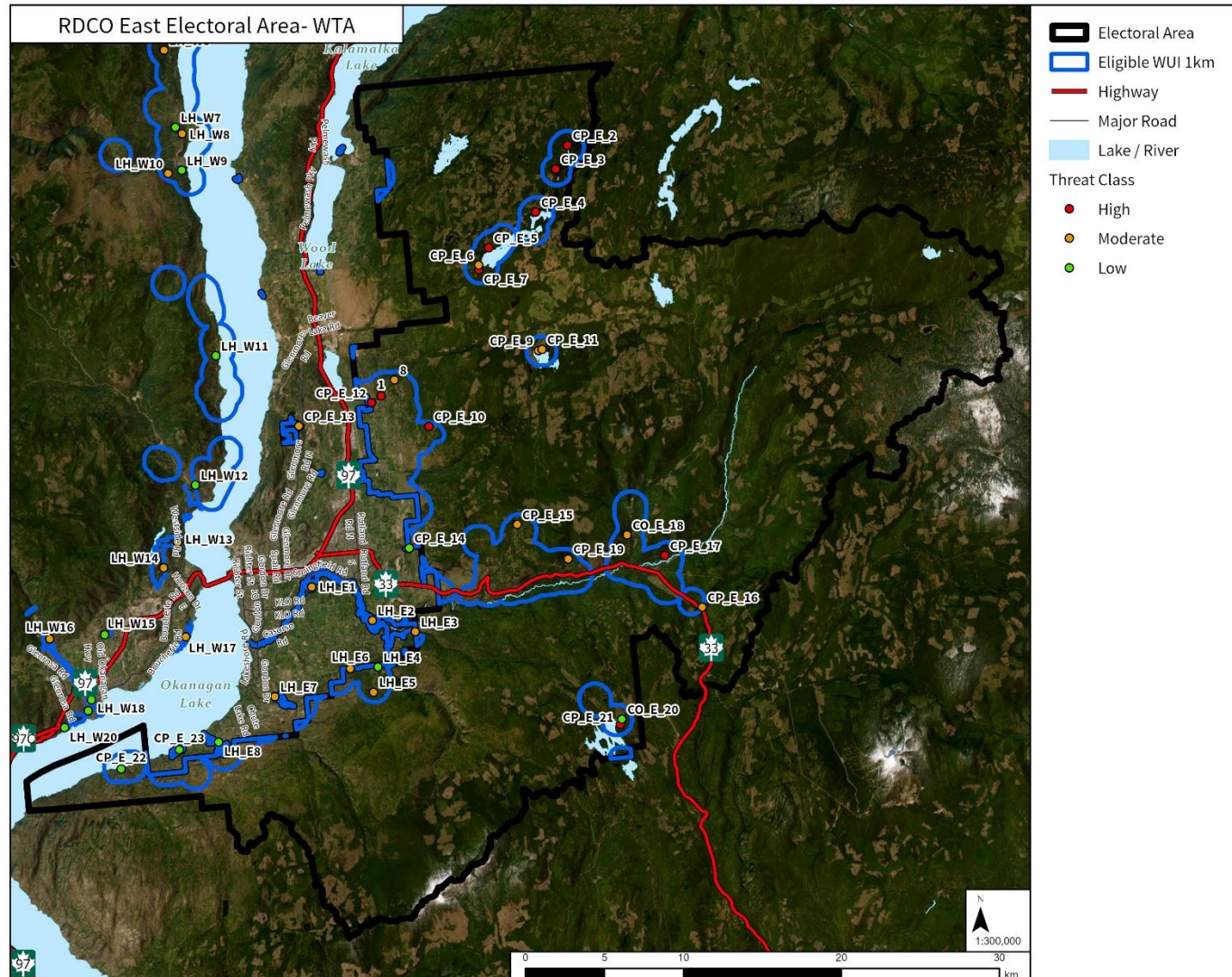


Figure 24. Location of Wildfire Threat Assessments and their associated threat class ranking in RDCO electoral area East.

## 5.0 FireSmart Disciplines

This CWRP is designed to structure strategies around the seven FireSmart disciplines:

1. Education
2. Legislation and Planning
3. Development Considerations
4. Interagency Cooperation
5. Cross – Training
6. Emergency Planning
7. Vegetation Management

Each FireSmart discipline and their role in resiliency planning for the RDCO is outlined in the subsequent sections below.<sup>20</sup>

**NEW in 2024:** Starting in 2024 as per the *FireSmart Community Funding & Supports Program and Application Guide* (February 2024) it will be required for all applicants to have the following FireSmart components developed/active in their community:

- FireSmart Position
- Community FireSmart and Resiliency Collaborative
- Current Community Wildfire Resiliency Plan<sup>21</sup>

FireSmart Coordinators are an integral part of wildfire risk reduction and act as the main point of contact linking local government, the public, and the provincial FireSmart Program. The FireSmart Coordinator is responsible for organizing and implementing the action items and initiatives identified within this CWRP in accordance with Provincial guidelines as well as with the direction and policy provided by the Regional District.

The Union of BC Municipalities **Community Resiliency Investment (CRI)** program has been in place since 2018 to support BC communities in reducing their risk to wildfires. The **FireSmart Community Funding and Supports (FCFS)** Stream provides funding to local governments to undertake community-based FireSmart activities. Many of the recommendations identified in the following sections are eligible activities. Those recommended activities that are eligible will be identified as such in the corresponding FireSmart Discipline Action Plan.

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<sup>20</sup> For more information on the BC FireSmart program, visit: <https://firesmartbc.ca/>

<sup>21</sup> For more information regarding FireSmart Community Funding & Supports Program visit: <https://www.ubcm.ca/cri/firesmart-community-funding-supports>

## 5.1 Education

Education and outreach efforts help elected officials, community planners, residents, visitors, businesses, land managers, first responders, and more, learn about wildfire and its potential impacts to their communities. Education often supports the success of other disciplines by building awareness and understanding.

**Goal:** The CWRP aims to facilitate the RDCOs continued success in FireSmart education and outreach. The CWRP identifies effective communication and education strategies unique to specific target audiences, ensuring each member of the community is informed and prepared as it pertains to wildfire risk.

**Context:** The CWRP is only successful if all members of the RDCO (residents, elected officials, community planners, first responders, land managers, etc.) are collectively informed and engaged in taking action to reduce wildfire risk at the individual and community level.

**Current Status:** Since June 2022, the RDCO has prioritized FireSmart education and on-the-ground support across Electoral Areas East and West, starting with a full-time FireSmart Coordinator and consistent outreach through open houses, workshops, and local events. The RDCO FireSmart program empowers neighbourhood-level FireSmart Champions and has enrolled about 10 neighbourhoods in the FireSmart Canada Neighbourhood Recognition Program, largely in Electoral Area West (Fintry, Nahun, Wilson's Landing, Traders Cove/Pine Point, Trepanier) with one in Electoral Area East near Mill Creek Regional Park. Each local fire department has trained Local FireSmart Representatives who have delivered roughly 200 Home Ignition Zone assessments and helped residents act on recommendations, supported by a homeowner rebate of up to \$1,000 for completed mitigation.

### 5.1.1 Opportunities to Enhance the Program

#### 5.1.1.1 Expand expert-led learning & demonstration activities

Continue the existing collaboration with external partners to host public events. Public event considerations include:

- Inviting subject matter experts such as Registered Professional Foresters, Post-secondary institute scholars, and BC Wildfire Service personnel to give presentations in community halls or virtually.

- Arranging site visits to observe completed fuel-treatments in comparison to untreated stands, to provide community members and local decision makers with an understanding of trade-offs, techniques, and outcomes.
- Partnering with a local nursery to co-host a FireSmart landscaping workshop focused on defensible-space and fire-resistant plant/material choices.

These activities can build credibility, visual learning, and greater community buy-in.

#### 5.1.1.2 Diversify Funding Sources

While CRI is currently the core funding source available to communities and local governments in BC, the RDCO should actively seek additional grants to supplement and expand. Some considerations include:

- **Wawanesa Climate Champions / Wildfire Prevention Grants:** Wawanesa's program offers up to **\$15,000** for community wildfire prevention projects<sup>22</sup>.
- **Intact Municipal Climate Resiliency Grants:** Intact has committed **\$3.1 million** to support climate adaptation projects across Canada, with grants up to **\$200,000** per project<sup>23</sup>.
- **Forest Enhancement Society BC (FESBC)** – Eligible projects must be located on BC provincial crown land and can include wildfire risk reduction planning and treatment prescription development, fuel treatment implementation, and/or recovery and utilization of uneconomical residual fibre resulting from wildfire risk reduction treatments funded by FESBC.
- **Federation of Canadian Municipalities** – Has a variety of funding streams available to municipalities for climate change adaptation. The Green Municipal Fund has grants for FireSmart-aligned vegetative management and vegetation-based wildfire risk reduction mitigation projects.<sup>24</sup>
- Partnering with NGOs or universities which may bring research or in-kind funding.

All funding opportunities are subject to change annually.

#### 5.1.1.3 Strengthen Linkages with Social Services / Vulnerable Populations

To ensure equitable outreach, partner with social service organizations (e.g. Better at Home, senior's centres). Engage staff or volunteers from those agencies to help identify vulnerable households, inform

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<sup>22</sup> [Wawanesa Climate Champions / Wildfire Prevention Grants](#)

<sup>23</sup> [Intact Municipal Climate Resiliency Grants](#)

<sup>24</sup> [Federations of Canadian Municipalities Green Municipal Fund](#)



delivery methods (e.g. help with mitigation, yard work assistance), and brainstorm supports (e.g. subsidized cleanups, volunteer crews). Other potential partners include:

- Westbank First Nation community services
- Local seniors' associations or councils
- Non-profit housing societies
- Community health or home support services

These partnerships can help ensure that FireSmart messaging and interventions reach people who may face barriers (mobility, cost, awareness).

#### **5.1.1.4 Leverage Local Media & Publications**

To boost visibility and community engagement, write regular, short articles for local newspapers, newsletters, community association bulletins, or online platforms. Tailor tips seasonally (e.g. spring cleanup, summer drought, autumn leaf drop, winter ember risk). Some topics and content could include:

- "This month's FireSmart tip"
- Before/after photos from local residents doing mitigation
- Calendar of FireSmart events or demonstration days
- Profiles or interviews with local FireSmart Champions
- Highlight rebate or funding opportunities

## 5.1.2 Education Priority Action Table

The following table shows recommended action items for the RDCO to increase FireSmart awareness and education, and action from the public.

| RDCO CWRP Action Plan                                                                                                                                                       |                                                                            |           |                       |                                                     |                                                                                                                                                                        |                                                                                                                                                                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-----------|-----------------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action                                                                                                                                                                      | Lead(s)                                                                    | Priority  | Timeframe             | Resources Required                                  | Metric for Success                                                                                                                                                     | Rationale/Notes                                                                                                                                                                                                                        |
| Education                                                                                                                                                                   |                                                                            |           |                       |                                                     |                                                                                                                                                                        |                                                                                                                                                                                                                                        |
| Read and understand the CWRP's identified risks and recommended actions.                                                                                                    | RDCO Fire Services Staff, FireSmart Coordinator, RDCO Parks Staff          | Very High | Immediately           | CWRP                                                | Read and understand the recommended CWRP actions.                                                                                                                      | Making this CWRP publicly available is important for community education and engagement.<br><br>Community understanding and buy-in is critical for the successful implementation of recommendations within this CWRP.                  |
| Develop a FireSmart public communication plan/strategy to effectively plan and monitor annual FireSmart educational strategies and activities for the entirety of the RDCO. | RDCO Fire Services Staff, FireSmart Coordinator, RDCO Communications staff | Very High | Immediate and ongoing | Communications and planning resources, FCFS Funding | Development of an annual communications plan that clearly outlines FireSmart education objectives and targets tailored for each RDCO Electoral Area and its residents. | A public communications plan/strategy can help clarify and set goals, objectives, and measurable targets. It also allows for successful tracking and adaptive management to improve activities that do not meet objectives or targets. |

| RDCO CWRP Action Plan                                                                                                                                 |                                                 |           |                                                         |                                                                                                                                       |                                                                                                                      |                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-----------|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action                                                                                                                                                | Lead(s)                                         | Priority  | Timeframe                                               | Resources Required                                                                                                                    | Metric for Success                                                                                                   | Rationale/Notes                                                                                                                                                                                                                                                                                           |
| Continue to employ a full-time FireSmart Coordinator. This position runs all aspects of the FireSmart program and oversees many aspects of this CWRP. | RDCO Fire Services Staff, FireSmart Coordinator | Very High | Ongoing                                                 | An annual salary for the position, position training and orientation, FCFS Funding                                                    | Successfully retain at least one individual in the FireSmart position who is enthusiastic about promoting FireSmart. | A FireSmart Coordinator will be required to receive further FCFS funding beginning in 2024.<br><br>Funding is currently available under the CRI program to support a salary for a FireSmart Coordinator, Local FireSmart Representative, Wildfire Mitigation Specialist, or Wildfire Forest Professional. |
| Continue to organize and hold a variety of FireSmart events throughout the RDCO.                                                                      | RDCO Fire Services Staff, FireSmart Coordinator | Very High | Annually, ideally between the months of May and October | Communication and public outreach resources, Resources to run events (location to host, volunteers, refreshments, etc.), FCFS Funding | Hold a minimum of one type of FireSmart event per year in each Electoral Area.                                       |                                                                                                                                                                                                                                                                                                           |

| RDCO CWRP Action Plan                                                                                                                         |                                                                       |           |           |                                                                            |                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------|-----------|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action                                                                                                                                        | Lead(s)                                                               | Priority  | Timeframe | Resources Required                                                         | Metric for Success                                                                                                                                                 | Rationale/Notes                                                                                                                                                                                                                                                                                      |
| Inform communities of upcoming FireSmart events and other fire/emergency management related updates via a variety of communication platforms. | RDCO Fire Services Staff, FireSmart Coordinator, Communications Staff | Very High | Ongoing   | Communication resources, FCFS Funding                                      | FireSmart resources are available in multiple locations and platforms to reach a wide variety of residents. FireSmart events are well advertised and attended.     | Public outreach and information sharing needs to occur on a variety of platforms to capture residents of all demographics.                                                                                                                                                                           |
| Continue to conduct FireSmart Home Ignition Zone Assessments for RDCO residents                                                               | RDCO Fire Services Staff, FireSmart Coordinator                       | Very High | Ongoing   | Qualified personnel to complete the Home Ignition Assessment, FCFS Funding | Residents within RDCO continue to request and receive assessments. Set reasonable targets for number of completed assessments based on interest in previous years. | The RDCO is actively conducting assessments and should continue to prioritize them, especially in the following neighbourhoods: <ul style="list-style-type: none"> <li>• Ewings Landing</li> <li>• Shelter Cover</li> <li>• Upper Fintry (West)</li> <li>• Joe Rich neighbourhoods (east)</li> </ul> |

| RDCO CWRP Action Plan                                                                                                                                                                                                                                                                                   |                                                 |          |           |                                                                          |                                                                                                                                                                         |                                                                                                                                                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|----------|-----------|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action                                                                                                                                                                                                                                                                                                  | Lead(s)                                         | Priority | Timeframe | Resources Required                                                       | Metric for Success                                                                                                                                                      | Rationale/Notes                                                                                                                                                                                                                                                       |
| <b>Conduct FireSmart Farm and Ranch Assessments</b>                                                                                                                                                                                                                                                     | RDCO Fire Services Staff, FireSmart Coordinator | High     | Ongoing   | Qualified personnel to complete Farm and Ranch Assessments, FCFS Funding | Set reasonable targets for number of completed assessments based on interest in previous years.                                                                         | <p>Prioritize conducting these assessments in the following locations:</p> <ul style="list-style-type: none"> <li>• Joe Rich</li> <li>• Upper Ellison</li> </ul> <p>Refer to <a href="#">FireSmart Farm and Ranch Wildfire Preparedness</a> for more information.</p> |
| <b>Continue to administer the FireSmart Rebate Program to residential property or homeowners that complete eligible FireSmart activities from their FireSmart HIZ Assessment.</b> This provides incentive and assists with the financial barriers of implementing FireSmart activities on private land. | RDCO Fire Services Staff, FireSmart Coordinator | High     | Ongoing   | Administrative services, FCFS Funding                                    | Residents are aware of the FireSmart Rebate program and are actively taking part in implementing eligible FireSmart activities and applying for rebates upon completion | As of 2025, rebates are limited to 50% of the total cost of the eligible activities identified in the CRI Program Guide and up to \$5,000 per property. Rebate programs can be highly effective in aiding with the financial costs of FireSmart activities.           |



| RDCO CWRP Action Plan                                                                                                                                                |                                                 |          |           |                                                                               |                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|----------|-----------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action                                                                                                                                                               | Lead(s)                                         | Priority | Timeframe | Resources Required                                                            | Metric for Success                                                    | Rationale/Notes                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Continue support for FireSmart Canada's Neighbourhood Recognition Program and encourage expansion.</b> Once recognized, annually renew for FireSmart Recognition. | RDCO Fire Services Staff, FireSmart Coordinator | High     | Ongoing   | FCFS Funding, Neighbourhood Champion and Local FireSmart Representative (LFR) | Have a minimum of three neighbourhoods recognized by the end of 2030. | <p>Prioritize the pursuit of Neighbourhood recognition on the following neighbourhoods:</p> <ul style="list-style-type: none"> <li>• Ewings Landing</li> <li>• Shelter Cover</li> <li>• Upper Fintry (West)</li> <li>• Joe Rich neighbourhoods (east)</li> </ul> <p>For more details regarding FireSmart Canada Neighbourhood Recognition Program (FCNRP) and steps towards recognition status, please see the <a href="#">FireSmart BC FCNRP website</a>.</p> |
| <b>Monitor eligible funding sources related to wildfire, FireSmart and emergency preparedness.</b>                                                                   | FireSmart Coordinator, RDCO Fire Services Staff | High     | Ongoing   | Designated staff to monitor grant postings                                    | Bi-annually review eligible funding sources for new opportunities.    | Diversifying funding sources increases program stability and allows the RDCO to pursue new initiatives such as youth engagement, demonstration projects, and expanded vegetation management. It also builds resilience by leveraging partnerships and aligning with broader community climate-adaptation goals.                                                                                                                                                |

| RDCO CWRP Action Plan                                                                                                                                                             |                                                                                       |          |                                              |                                                        |                                                                                                                                                      |                                                                                                                                                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------|----------------------------------------------|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action                                                                                                                                                                            | Lead(s)                                                                               | Priority | Timeframe                                    | Resources Required                                     | Metric for Success                                                                                                                                   | Rationale/Notes                                                                                                                                                                |
| <b>Support the FireSmart BC Education Program through School District No.23 (Central Okanagan).</b>                                                                               | RDCO Fire Services Staff, FireSmart Coordinator, School District No.23 representative | Moderate | Program development for the 2026 school year | Relationship with School District No. 23, FCFS Funding | Program is adopted by the 2026/2027 school year.                                                                                                     | This program includes promotional materials for contests, banners, and targeted education events at schools to promote the education program curriculum.                       |
| <b>Work with local garden centers to label low-flammability species, display FireSmart planting/signage at point-of-sale. Coordinate seasonal promos to incentivize adoption.</b> | RDCO Fire Services Staff, FireSmart Coordinator                                       | Moderate | 2026-2030                                    | FCFS funding, relationship with local business owners  | Local garden centers or nurseries continue to support the program                                                                                    | The <a href="#">FireSmart Plant Program</a> includes plant tags, banners, staff buttons and in-store FireSmart advertising.                                                    |
| <b>Install educational/interpretive signage regarding wildfire ignition prevention and ecosystem management in strategic location throughout the RDCO.</b>                        | RDCO Fire Services Staff, FireSmart Coordinator, RDCO Parks Staff                     | Moderate | 2026-2030                                    | FCFS funding                                           | Educational/interpretive signage regarding wildfire ignition prevention and FireSmart are strategically places in high-use RDCO recreation locations | Signage for wildfire and FireSmart educational purposes can be placed in RDCO parks.<br><br>Consider targeting regional parks, recreation sites, and campgrounds with signage. |

## 5.2 Legislation and Planning

Legislation and planning are effective tools to reduce wildfire risk on private land, Crown land, and the administrative boundaries of a local government or First Nation communities. Aligning these tools with FireSmart standards provide communities the means to implement wildfire risk reduction activities.

**Goal:** The goal is to Identify where current legislation and planning frameworks in RDCO support or hinder proactive wildfire resilience and recommend appropriate regulatory mechanisms to strengthen wildfire risk reduction practices.

**Context:** Regional districts often work with limited tax bases and lean staff, so enforcing broad bylaws can be costly and unpopular in rural areas. Even so, a light, well-targeted regulatory backbone is useful: clear baseline rules set consistent expectations for development, provide a legal backstop in higher-risk situations, and align local practice with provincial standards. Within this context, several provincial and federal acts and regulations support or influence the CWRP process. A concise index of local bylaws and senior-government instruments is provided in Appendix C Additional Resources for FireSmart Disciplines.

**Current Status:** The RDCO has multiple relevant higher-level planning documents and enforceable bylaws regulating land use and community planning, development, and fire protection as identified in Table 2 and Table 3. The RDCO should consider a review of Bylaws and plans to align with legislation and planning FireSmart principles. Some considerations are as follows:

**Fire Protection Service Establishment bylaws** formalize the mandate for day-to-day response and planning, and support coordinated operations and mutual aid across neighbouring jurisdictions when incidents exceed a single hall's capacity. Currently rural communities within the RDCO that fall **outside** of a Fire Protection Service Area are:

- Trepanier Rd (south and north of Highway 97C)
- McCulloch Station (McCulloch Rd) – Recreation and Seasonal
- Beaver Lake Rd (Beaver Lake, Crooked Lake, Island Lake, Dee Lake) – Recreation and Seasonal

**RDCO Regional Parks Plan (2000):** sets the direction for regional park management and operation to ensure the protection of natural environment, providing outdoor recreation opportunities, and environmental

education opportunities for park users. Currently, the policies in this plan do not speak to FireSmart or Wildfire Risk Reduction directly.

**Official Community Plans and Rural Land Use Bylaws:** Outline land use objectives including the reduction of wildfire hazards when development occurs.

As identified in section 5.3 Development Considerations, these plans and their accompanying Wildfire Development Permit Area Maps should be reviewed in consideration of expanding community size and opportunities to define further FireSmart standards. 5.3

### 5.2.1 Legislation and Planning Priority Action Table

The following table shows recommended priority action items for the RDCO to update/amend bylaws and policies to support wildfire resiliency.

Table 18. CWRP Legislation and Planning Priority Action Table.

| RDCO CWRP Action Plan                                                                                                                                                                                                                                                         |                                         |           |                       |                                                                                                  |                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----------|-----------------------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action                                                                                                                                                                                                                                                                        | Lead(s)                                 | Priority  | Timeframe             | Resources Required                                                                               | Metric for Success                                                                                                                                                                  | Rationale/Notes                                                                                                                                                                                                                                                                                                                                                |
| Legislation and Planning                                                                                                                                                                                                                                                      |                                         |           |                       |                                                                                                  |                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                |
| <b>Planning and development throughout the RDCO considers wildfire risk in all aspects.</b><br>This includes ensuring all local emergency and development plans and bylaws are developed, updated, or amended to align with wildfire risk reduction and FireSmart principles. | RDCO Development & Engineering Services | Very High | Immediate and ongoing | Communication resources, internal staff capacity, FireSmart and wildfire risk reduction guidance | All RDCO plans and policies incorporate wildfire risk at multiple levels and bylaws are developed/amended to reflect higher-level goals and objectives for wildfire risk reduction. | The implementation of the RDCO CWRP should align as much as possible with CWRPs being implemented by neighbouring jurisdictions, including: <ul style="list-style-type: none"> <li>• City of Kelowna,</li> <li>• City of West Kelowna,</li> <li>• Westbank First Nation,</li> <li>• District of Lake Country, and</li> <li>• District of Peachland.</li> </ul> |



| RDCO CWRP Action Plan                                                                                                                                                                                                                                                                                                                                                                 |                     |          |                       |                                                                                                                                            |                                                                                                                                                    |                                                                                                                                                                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action                                                                                                                                                                                                                                                                                                                                                                                | Lead(s)             | Priority | Timeframe             | Resources Required                                                                                                                         | Metric for Success                                                                                                                                 | Rationale/Notes                                                                                                                                                                                                                                            |
| <p><b>Update the RDCO Regional Parks Plan to align with objectives for wildfire risk reduction and ecosystem restoration in accordance with this CWRP.</b> Specifically, those pertaining to Stewardship Policies the use of prescribed fire as an effective and appropriate tool to achieve such objectives within certain vegetative ecosystems present in RDCO Regional Parks.</p> | RDCO Parks Services | Moderate | Within 4 years (2029) | Communication resources, internal capacity, information from this CWRP pertaining to proposed areas for fuel treatment and prescribed fire | The RDCO Regional Parks Plan is updated to reflect and promote objectives for wildfire risk reduction and ecological restoration in Regional Parks | The RDCO Regional Park Plan was last updated in 2000. Updating policies and objectives within the Regional Parks Plan to align with wildfire risk reduction and ecosystem restoration objectives in this CWRP is important for land management continuity. |

| RDCO CWRP Action Plan                                                                                                                                                                    |                                                                   |          |                       |                         |                                                                               |                                                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----------|-----------------------|-------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Action                                                                                                                                                                                   | Lead(s)                                                           | Priority | Timeframe             | Resources Required      | Metric for Success                                                            | Rationale/Notes                                                                                                            |
| <b>Determine the need for update, amendment, or development of Fire Protection Service Areas.</b> Specifically in areas experiencing, or projected to experience, increased development. | RDCO Development & Engineering Services, RDCO Fire Services Staff | Moderate | Within 4 years (2029) | Internal staff capacity | Fire Protection Service Area amendment/development is identified and pursued. | Currently residents along Trepanier Road south and north of Highway 97C do not fall within a Fire Protection Service Area. |

### 5.3 Development Considerations

Development decisions, such as land use types, structure density, road patterns, and other considerations, shape the built and natural environments. These decisions can bring lasting impacts to the WUI and wildfire risk by affecting public and first responder safety and survivability of homes, critical infrastructure, and other community features. Considering these factors early in the development process can reduce wildfire risk to life safety and property.

**Goal:** Understand the susceptibility of the RDCOs built and natural environments to wildfire and recommend regulatory and administrative tools to enhance public safety, increase responder efficacy, and reduce structural losses in the event of a fire.

**Context:** In BC, communities can establish Development Permit Areas (DPAs) and other regulatory mechanisms that incorporate wildfire risk into zoning and development. This tool can effectively enhance wildfire preparedness and mitigation by addressing development factors like subdivision layouts, fire-resistant building materials, and landscaping. Development considerations could include the following:

- **Defensible Space** – create and maintain defensible space around structures by FireSmart guidelines, clearing flammable vegetation and materials within a specified distance to prevent wildfire spread.
- **Building Materials** – utilize fire-resistant building materials and construction techniques recommended by FireSmart, such as non-combustible roofing materials, fire-rated siding, and ember-resistant vents.
- **Roof Design** – to reduce the risk of ember intrusion and flame penetration, opt for a fire-resistant roof design recommended by FireSmart, such as a steep slope or metal roofing.
- **Eaves and Vents** – design eaves and vents according to FireSmart recommendations to minimize embers' entry into the structure. Incorporate ember-resistant vents and cover eaves with non-combustible materials or metal flashing.
- **Access and Water Supply** – as per FireSmart guidelines, ensure adequate access for emergency vehicles and maintain a reliable water supply for firefighting efforts, including installing fire hydrants and water storage tanks at strategic locations throughout the community.

**Current Status:** DPAs for hazard protection, including wildfire risks, were established in the early 2000s with the Central Okanagan East OCP (Bylaw 1350, 2008) and West OCP (Bylaw 1270, 2010), following the

2003 Okanagan Mountain Park fire. They were updated in 2015 to strengthen wildfire mitigation guidelines. The RDCO is actively interested in updating DPAs as part of the 2024 OCP refresh to reflect growth and incorporate findings from the ongoing Community Wildfire Resiliency Plan (CWRP).

Across the existing four OCPs and the Joe Rich RLUB, development is steered through a layered approach:

- Wildfire is treated as an ongoing hazard managed via public education, development approvals, Development Permits, and building/landscaping standards grounded in FireSmart guidance.
- Each plan uses a Wildfire Development Permit Area (WDPA) to trigger guidelines at subdivision, new construction, and large additions, with flexibility through exemptions and the option to secure long-term measures by covenant.
- Professional assessments are expected near forest fuel types (often within 100 m), and reports can be required before approvals, with an emphasis on balancing fuel reduction with ecological values and aligning FireSmart guidelines.
- Tools listed include covenants, zoning, subdivision and building bylaws, and service-area mechanisms to maintain risk reduction over time.

Objectives repeatedly include reducing susceptibility of new construction/large additions, addressing risk at subdivision level, and ensuring mitigation considers ecosystem values. Exemptions for small accessory buildings and certain additions are provided, with thresholds varying by plan (e.g., ~40 m<sup>2</sup> vs. 55 m<sup>2</sup>/≤25% additions).

Notable plan-specific emphases include:

- Ellison's added direction on water systems and fire flows (encouraging connection to community water and discouraging subdivision outside fire protection areas),
- Rural Westside's explicit requirement for site-specific wildfire susceptibility assessments at application, and
- Brent Road & Trepanier's target of reducing fuel hazard to Low (with moderate flexibility)

Collectively, these provisions align subdivision and building decisions with FireSmart-informed design, professional review, and enforceable conditions to manage interface risk over time.

However, the spatially delineated Wildfire Interface Development Permit Areas within the OCPs and RLUB were originally mapped 8 or more years ago and do not reflect growing changes in population growth, land ownership, and the vegetative landscape. Wildfire hazard mapping should be updated periodically as appropriate to reflect any major changes in land ownership, zoning changes or development booms, or changes in vegetation on the adjacent landscape (e.g. Burned areas, forest harvesting, park designations, etc.). Additionally, Wildfire Interface DPs are currently only required when development is occurring within

100m of a forested interface; this should be updated to better reflect the potential for ember transfer from forested areas during wildfire events.



### 5.3.1 Development Considerations Priority Action Table

The following table shows recommended priority action items for the RDCO to enhance public safety, increase response efficacy and reduce structural loss within the AOI.

Table 19. CWRP Development Considerations Priority Action Table.

| RDCO CWRP Action Plan                                                                                                                            |                                         |           |                       |                                                                                                                                                                                             |                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action                                                                                                                                           | Lead(s)                                 | Priority  | Timeframe             | Resources Required                                                                                                                                                                          | Metric for Success                                                                                                                                                                                                             | Rationale/Notes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Development Considerations                                                                                                                       |                                         |           |                       |                                                                                                                                                                                             |                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Update Wildfire Development Permit Area mapping for RDCO OCPs to reflect changes in land ownership, development, and wildfire hazard conditions. | RDCO Development & Engineering Services | Very High | Within 5 years (2030) | FCFS funding, Communication resources, internal staff capacity, FireSmart and wildfire risk reduction guidance, subject matter expertise required for assessing and mapping wildfire hazard | The Wildfire Development Permit Areas established by the RDCO OCPs are revised to reflect current wildfire hazard and changes in land ownership and encompass larger areas that better reflect ember transport from wildfires. | Wildfire Development Permit Areas are established in all four of RDCO's OCPs: Rural Westside, Brent Road Trepanier, South Slopes, and Ellison. However, these OCPs and their Wildfire DPA mapping have not been updated in 8 or more years to reflect population growth, ongoing changes on the landscape, and wildfire hazard.<br><br>It is recommended that the Wildfire DPA areas should be expanded beyond 100m from forested landscape to better reflect the potential for ember transfer from wildfires. |

| RDCO CWRP Action Plan                                                                                                                                                                                                                                |                                                 |           |                       |                                                                                                                                                                                             |                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-----------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action                                                                                                                                                                                                                                               | Lead(s)                                         | Priority  | Timeframe             | Resources Required                                                                                                                                                                          | Metric for Success                                                                                                                                                                                                                     | Rationale/Notes                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| As part of transitioning the Joe Rich Rural Land Use Bylaw to a new Official Community Plan regulatory framework, update Wildfire Development Permit Area mapping to reflect changes in land ownership, development, and wildfire hazard conditions. | RDCO Development & Engineering Services         | Very High | Within 5 years (2030) | FCFS funding, Communication resources, internal staff capacity, FireSmart and wildfire risk reduction guidance, subject matter expertise required for assessing and mapping wildfire hazard | The Wildfire Development Permit Areas established by the Joe Rich RLUB are revised to reflect current wildfire hazard and any changes in land ownership and encompass larger areas that better reflect ember transport from wildfires. | A Wildfire Development Permit Area is established in the Joe Rich Rural Land Use Bylaw (RLUB) No 1195. However, the Wildfire DPA mapping has not been updated in nearly 15 years to reflect population growth, ongoing changes on the landscape, and wildfire hazard.<br><br>It is recommended that the Wildfire DPA areas should be expanded beyond 100m from forested landscape to better reflect the potential for ember transfer from wildfires. |
| Complete FireSmart Critical Infrastructure Assessments on RDCO owned Critical Infrastructure (CI).                                                                                                                                                   | RDCO Fire Services Staff, FireSmart Coordinator | High      | Immediate             | Qualified LFR, FireSmart Critical Infrastructure Assessment Sheet, FCFS funding                                                                                                             | FireSmart CI Assessments have been completed on highest priority CI by 2027                                                                                                                                                            | Funding is currently available through the CRI program to complete FireSmart assessments for publicly owned buildings, critical infrastructure, culturally significant sites and/or green spaces.                                                                                                                                                                                                                                                    |

| RDCO CWRP Action Plan                                                                                                                                                                                                   |                                                 |          |                       |                                                                                                                                            |                                                                                                                   |                                                                                                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|----------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action                                                                                                                                                                                                                  | Lead(s)                                         | Priority | Timeframe             | Resources Required                                                                                                                         | Metric for Success                                                                                                | Rationale/Notes                                                                                                                                                                                                                                                           |
| Once a FireSmart Critical Infrastructure Assessment has been completed, implement FireSmart recommendations and mitigation activities resulting from the completed Assessments with the goal of reducing hazard scores. | RDCO Fire Services Staff, FireSmart Coordinator | High     | Within 5 years (2030) | FCFS funding, Labour, machinery, construction materials                                                                                    | FireSmart recommendations have been implemented for a minimum of two CI.                                          | Funding is currently available through the CRI program to complete FireSmart assessments for publicly owned buildings, critical infrastructure, culturally significant sites and/or green spaces.                                                                         |
| Review Wildfire Interface Development Permit Design Guidelines. Where appropriate, revise to support alignment with FireSmart BC Guidance                                                                               | RDCO Development Services                       | Moderate | Within 2 years (2027) | FCFS Funding, Communication resources, internal staff capacity, <a href="#">Wildfire Development Permit Areas Guideline – FireSmart BC</a> | The Wildfire Interface Development Permit Design Guidelines are updated to reflect information from FireSmart BC. | The RDCO has developed useful FireSmart design guidelines for their Wildfire Development Permit Areas and overall development throughout the region. These guidelines need to remain up to date with information, tools, and references being released from FireSmart BC. |

## 5.4 Interagency Cooperation

It takes the collaborative efforts of multiple stakeholders working together to achieve a fire resilient community. These people include the local fire departments, local government staff, elected officials, First Nations representatives, industry representatives and provincial government residents in your area. Individually they are responsible to their own organizations, but all the stakeholder organizations are dependent upon each other to develop an effective Community Wildfire Resiliency Plan and undertake a successful wildfire response.

**Goal:** Encourage and establish collaborative relationships among the RDCO departments, British Columbia Wildfire Service, City of Kelowna, City of West Kelowna, District of Peachland, Westbank First Nation, District of Lake Country and other partners to achieve a wildfire resilient community.

**Context:** Starting in 2024 as per the *FireSmart Community Funding & Supports Program and Application Guide* (February 2024) it will be required for all applicants to have a *Community FireSmart and Resiliency Collaborative* (CFRC).<sup>25</sup> A CFRC fills a key level of collaboration and organization on a scalable level that is currently missing across British Columbia.

**Current Status:** The RDCO sits on the **Okanagan Regional CFRC** which meets quarterly. The Okanagan Regional CFRC works within the four pillars of emergency response to strengthen relationships between key partners and agencies through implementing and growing the seven FireSmart disciplines at scalable levels.

Membership of the Okanagan Regional CFRC includes:

- District of Peachland
- City of West Kelowna
- District of Summerland
- District of Lake Country
- City of Vernon
- Regional District of Okanagan Similkameen
- Okanagan Nation Alliance
- City of Kelowna
- Regional District of Central Okanagan
- Regional District of North Okanagan

<sup>25</sup> For more information regarding FireSmart Community Funding & Supports Program visit: <https://www.ubcm.ca/cr/firesmart-community-funding-supports>

- Town of Princeton
- City of Penticton
- District of Coldstream
- Town of Oliver
- First Nations' Emergency Services Society of BC

The CFRC involves the collaborative efforts of multiple stakeholders working together to achieve a wildfire resilient community, this can bring partners together under a common vision connected to the seven FireSmart disciplines. Considerations for joint Okanagan Regional CFRC pursuits include:

- Collaborate on a communication and **public education strategy** with multiple local governments.
  - Participate in or liaise with a government led **fuel management planning table** in collaboration with MoF and other agency staff.
  - Develop/update, implement and monitor the success of your **Community Wildfire Resiliency Plan**.
  - **Streamline FireSmart Home Assessment** and **FireSmart grant programs** by sharing capacity between multiple local authorities.
  - Develop a network of **Local FireSmart Representatives** in the area and coordinate their activities within the region.
  - Provide collaboration and coordination **on Community Funding and Supports Projects** and **Crown Land Wildfire**.
  - Create an advocacy program for participation in the **FireSmart Canada Neighbourhood Recognition Program** and work towards increasing the number of recognized neighbourhoods in the region each year.
  - Identify FireSmart activities that should be undertaken to best build **wildfire resiliency** in higher risk areas.
  - Identifying **funding sources** to access and support priority projects from Provincial, Federal and Regional Programs.
  - Ensure **information sharing** of project initiatives that span multiple jurisdictions and scales over space and time.
  - Identify and **recommend opportunities** for continuous program improvement to BC FireSmart Committee.
- Share information to help identify **Risk Reduction** project initiatives that reduce risk to First Nation and Municipal communities and support critical infrastructure.<sup>26</sup>

To date the Okanagan Regional CFRC has already successfully implemented some of these activities. In 2023 the CFRC pursued a joint regional FireSmart media campaign through pooled FCFS funding to produce a commercial encouraging participation in the program. They have additionally pooled funding to share in resources such as an Ember mascot costume.

<sup>26</sup> For more information regarding the Community FireSmart and Resiliency Committee, visit: <https://firesmartbc.ca/cfrc/>



### 5.4.1 Interagency Cooperation Priority Action Table

The following table shows recommended priority action items for the RDCO to pursue, to further develop and maintain partnerships and interagency collaboration.

Table 20. CWRP Interagency Cooperation Priority Action Table.

| RDCO CWRP Action Plan                                                                                                        |                                                                      |           |           |                    |                                                                     |                                                                                                                                                                                                                                                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|-----------|-----------|--------------------|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action                                                                                                                       | Lead(s)                                                              | Priority  | Timeframe | Resources Required | Metric for Success                                                  | Rationale/Notes                                                                                                                                                                                                                                                                                                            |
| Interagency Cooperation                                                                                                      |                                                                      |           |           |                    |                                                                     |                                                                                                                                                                                                                                                                                                                            |
| Annually attend the Wildfire Resiliency Training Summit.                                                                     | FireSmart Coordinator, RDCO Fire Services Staff, RDCO Planning Staff | Very High | Annually  | FCFS funding       | A minimum of two people attend annually from the Regional District. | The intention of having multiple people attend the event is to foster awareness and education regarding wildfire resiliency across various RDCO departments.                                                                                                                                                               |
| Continue to participate in the Okanagan Regional Community FireSmart Collaborative and share findings of CWRP with partners. | RDCO Fire Services Staff, FireSmart Coordinator                      | Very High | Ongoing   | FCFS funding       | Continued participation in Collaborative.                           | The Collaborative meets quarterly to discuss FireSmart and emergency management. Share high priority action items with other agencies/partners and identify synergies and opportunities to collaborate.<br><br>Participation in a FireSmart Resiliency Collaborative is a requirement for further FCFS funding as of 2024. |

| RDCO CWRP Action Plan                                                                                                                                                                                |                                                 |          |           |                    |                                                                                                                              |                                                                                                                                                                                                                                                                                                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|----------|-----------|--------------------|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action                                                                                                                                                                                               | Lead(s)                                         | Priority | Timeframe | Resources Required | Metric for Success                                                                                                           | Rationale/Notes                                                                                                                                                                                                                                                                                                           |
| <b>Provide Indigenous cultural safety and humility training to emergency management personnel.</b>                                                                                                   | RDCO staff                                      | High     | Ongoing   | FCFS funding       | Aim to provide training annually for staff until all emergency management staff have received training.                      | Training will provide emergency management staff with knowledge that can be used to successfully contribute to partnerships and assist Indigenous communities in both wildfire prevention and suppression.                                                                                                                |
| <b>Participate in an integrated fuel management, cultural burning and/or prescribed fire planning table to support the integration of fuel management planning across jurisdictional boundaries.</b> | RDCO Fire Services Staff, FireSmart Coordinator | Moderate | Ongoing   | FCFS funding       | Identify and integrate at least one fuel management pursuit with neighbouring jurisdiction across a jurisdictional boundary. | Partnership with the Ministry of Forests, BC Wildfire Service, adjacent municipalities and First Nation governments is encouraged for a successful planning table.<br><br>Consider engaging with the MoF Okanagan Shuswap Natural Resource District and inquire if any current planning tables exist within the Okanagan. |

## 5.5 Cross-Training

Wildland-Urban Interface resiliency planning and incident response draw on many different professions who do not typically work in wildfire environment. Cross-training of fire fighters, public works staff, utility workers, local government and First Nations administration, planning and logistics staff, and other key positions will help support the development of comprehensive and effective wildfire risk reduction planning and activities, as well as a safe and effective response.

**Goal:** Develop a diverse skill set within community members, local Fire Department, local government staff, etc. and facilitate understanding across participants engaged in risk reduction activities and wildfire planning/response. This will allow skilled workers to support the development of comprehensive and effective CWRP activities, including a safe and effective wildfire response.

**Context:** Cross training helps build relationships between different groups/agencies/organizations, identifies areas of strength and weakness in existing emergency operations and processes, and enhances emergency preparedness. Local FireSmart Representatives and RDCO staff should be encouraged to participate in available training courses. This will help build local capacity and enhance wildfire risk reduction and suppression tactics knowledge. Currently, a number of cross training courses are available to local government staff and fire department personnel.

**Current Status:** The RDCO maintains seven fire stations with paid-on-call firefighters across its electoral areas and has mutual aid agreements with all member municipalities.

### 5.5.1 FireSmart Training and Cross-Training

Cross-training opportunities between agencies could include an annual emergency evacuation scenario, which would foster inter-agency relationships and help identify strengths and weaknesses in the current evacuation plan. Additionally, local FireSmart Representatives and RDCO Fire Department Staff should be encouraged to participate in available training courses. This will help build local capacity and enhance wildfire risk reduction and suppression tactics knowledge.

A complete list of current eligible FireSmart position training courses is below:

- **Wildfire Risk Reduction Basics Course** - free, online course for non-forest professionals that provides an introduction to the key concepts to minimize the negative impacts of wildfires in BC.

- **Fire and Life Safety Educator** - public education course for fire safety education.
- **Local FireSmart Representative Training**
- **Wildfire Mitigation Specialist Training and Train the Trainer course**
- **FireSmart BC Farm and Ranch Training** – free online course required to conduct Farm and Ranch Assessments
- **FireSmart BC Landscaping Course** – free online course for public works, lands, and/or parks staff

A complete list of current eligible cross training for fire department members is below:

- **ICS-100 (Incident Command System)** - introduction to an effective system for command, control, and coordination of response at an emergency site.
- **S-100** - Basic fire suppression and safety and S-100A (annual refresher).
- **S-185** - Fire entrapment avoidance and safety.
- **S-211** – The Fire Environment for Firefighters and Dispatchers
- **S-290** – Principals of Fire Behaviour is an intermediate level course to support predictive decision-making in fire operations as it pertains to factors that influence wildland fire behaviour.
- **S-291** – Understanding the Fire Weather Index Systems
- **SPP-WFF1** - Wildland Firefighter Level 1 (includes S100, S-185, and ICS-100).
- **Wildland Structure Protection Program (SPP-115)** - training for structure protection unit crews and WSPP-FF1(train the trainer).
- **S-231** - Engine Boss (training for structure protection program in a WUI event).
- **BCTrex** – collaborative hands-on training event designed to bring various roles and agencies together to conduct prescribed burns while gaining experience and exchanging knowledge.
- **RX310 Introduction to Fire Effects** – introductory level course offering an overview of the fundamental principles and ecological impacts of fire across diverse ecosystems.
- **Task force leader (TFL-1 & TFL-Advanced)** for structure defense only – course for structural fire personnel to monitor and assess specialty resources that work together to accomplish a common task.
- **Structure Division/Group Supervisor (DivS/GrpS)** for structure defense only – course for structural fire personnel to implement assigned portion of the Incident Action Plan and be responsible for all operations conducted in the division/group)
- **Wildland Live Fire Training** – opportunity to propose projects with local BCWS zone staff to develop, implement, and debrief on live fire training burn.

Cross-training opportunities also exist for Emergency Services staff and the FireSmart Coordinator position.

Eligible training courses available to these local government personnel include:

- **Local FireSmart Representative (LFR) training** – free online course to enhance understanding of current Wildland Urban Interface concepts and wildfire hazard assessments.
- **Introduction to Emergency Management in Canada (EMRG-1100)** - Basic concepts and structure of emergency management.
- **ICS-100 (Incident Command System)** - introduction to an effective system for command, control, and coordination of response at an emergency site.
- Attend the annual BC **Wildfire Resiliency and Training Summit** - Up to four staff per year.

More information regarding [FireSmart training course](#) can be found on the FireSmart BC website.



### 5.5.2 Cross-Training Priority Action Table

The following table shows recommended priority action items for the RDCO to further develop and maintain internal capacity in emergency management planning and response.

Table 21. CWRP Cross Training Priority Action Table.

| RDCO CWRP Action Plan                                                                                                                                                 |                                                 |          |           |                                  |                                                                                                                            |                                                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|----------|-----------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Action                                                                                                                                                                | Lead(s)                                         | Priority | Timeframe | Resources Required               | Metric for Success                                                                                                         | Rationale/Notes                                                                                                      |
| Cross-Training                                                                                                                                                        |                                                 |          |           |                                  |                                                                                                                            |                                                                                                                      |
| Provide opportunities for additional wildfire cross training to RDCO Fire Department Staff.                                                                           | RDCO Fire Services Staff, FireSmart Coordinator | High     | Ongoing   | FCFS funding, qualified trainers | Additional courses are provided to all members of the RDCO Fire Departments.                                               | Interface wildfire training is essential for fire department members to successfully respond to interface wildfires. |
| Provide opportunities for additional training related to FireSmart and wildfire risk reduction to RDCO staff, FireSmart Coordinator, and committed community members. | RDCO Fire Services Staff, FireSmart Coordinator | High     | Ongoing   | FCFS funding, qualified trainers | Regional district staff receive appropriate cross training in emergency management, FireSmart and Wildfire Risk Reduction. | Participation in these courses will improve the District's ability to effectively respond to an emergency event.     |

| RDCO CWRP Action Plan                                                                                            |                                                    |          |                               |                                                                        |                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|----------|-------------------------------|------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action                                                                                                           | Lead(s)                                            | Priority | Timeframe                     | Resources Required                                                     | Metric for Success                                                                                                 | Rationale/Notes                                                                                                                                                                                                                                                                                                                                                 |
| <b>Provide training opportunities for cultural and prescribed fire operations to RDCO Fire Department Staff.</b> | RDCO Fire Services Staff,<br>FireSmart Coordinator | Moderate | Ongoing                       | FCFS funding,<br>qualified trainers                                    | At minimum, the FireSmart Coordinator and top members of the RDCO Fire Departments are trained in prescribed fire. | BC Trex courses are collaborative hands-on training events designed to bring various roles and agencies together to conduct prescribed burns while gaining experience and exchanging knowledge.                                                                                                                                                                 |
| <b>Provide training opportunities for live wildland fire training exercises to RDCO Fire Department Staff.</b>   | RDCO Fire Services Staff,<br>FireSmart Coordinator | Moderate | Bi-annually in spring or fall | FCFS funding,<br>relationship with BCWS Penticton and Vernon Fire Zone | Have a minimum of one cross training/live fire exercise annually.                                                  | Collaboration for prescribed fire and live wildland fire training should occur between RDCO staff, RDCO Fire Departments, adjacent municipalities, Fire Departments with mutual aid agreements, BCWS, local First Nations, etc. Established relationships between agencies will lead to increased efficiency and coordinated responses during a wildfire event. |

## 5.6 Emergency Planning

Community preparations for a wildfire emergency requires a multi-pronged approach. Individuals and agencies need to be ready to react by developing plans, mutual-aid agreements, resource inventories, training, and emergency communication systems. All of these make it possible for a community to respond effectively to the threat of wildfires.

**Goal:** Coordinate response efforts amongst the community, first responders, and local and provincial agencies to increase the efficiency and effectiveness of communications and evacuations in the event of an emergency, such as wildfire.

This CWRP aims to increase the number of community members who:

- Understand the hazard and risk associated with wildfire in their community,
- Know what to do in the event of an emergency,
- Take action to increase individual preparedness and mitigate damage to their properties, and
- Participate in community resiliency planning.

**Context:** Emergency management programs should focus on the four pillars of emergency management planning:

1. Prevention and mitigation,
2. Emergency preparedness,
3. Response activities, and
4. Recovery.

As observed in recent busy fire seasons, simultaneous wildfire emergencies across the province can strain resources, leading to shortages in heavy equipment, BCWS staff, contractors, and equipment. Resource availability may be severely limited or scarce during such times, necessitating the triage or prioritization of emergencies provincewide. Therefore, local governments, resources, and individuals must be prepared and proactive in their response efforts.

**Current Status:** RDCO's current Emergency Plan was developed in 2020. This plan covers all member municipalities as part of the Regional Emergency Program. The RDCO has approved funding for the development of a comprehensive HRVA for each Electoral Area and the Regional Parks.

### 5.6.1 Pre – Incident Wildfire Response Planning

Pre-incident wildfire response planning is recommended for the RDCO to guide wildfire suppression strategies and tactics. Also known as a pre-suppression plan, the pre-incident plan incorporates essential fire management knowledge and information into one place, which guides wildfire response tactics and increases fire suppression efficiencies. The plan may be developed with BCWS, and adjacent response partners to facilitate firefighting assistance. The plan should be reviewed before each fire season, and updates should be made if needed. *Canada's National Guide for WUI Fires* is a valuable resource for facilitating the planning process.<sup>27</sup> The guide includes a planning checklist, which is listed below (Table 22), to help develop the plan and accompanying maps. Evacuation route planning and testing are high priorities for incorporating into the pre-incident plan.

Table 22. Example of a pre – incident planning checklist

| Command                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Operations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• Escape Fire Situation Analysis (if appropriate)</li> <li>• Pre -positioning needs</li> <li>• Draft delegation of authority</li> <li>• Management constraints</li> <li>• Interagency agreements</li> <li>• Evacuation protection needs</li> <li>• Closure procedures</li> </ul>                                                                                                                                                                                                                                                                           | <ul style="list-style-type: none"> <li>• Heli – spot, Heli – base locations, flight routes, restrictions, water sources</li> <li>• Control line locations</li> <li>• Natural barriers</li> <li>• Safety zone options</li> <li>• Staging area locations</li> <li>• Fuel caches</li> <li>• GPS locations for helicopter access</li> </ul>                                                                                                                                                                                                                                |
| Logistics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Planning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <ul style="list-style-type: none"> <li>• Base camp locations</li> <li>• Roads, trails (including limitations)</li> <li>• Utilities</li> <li>• Medical facilities</li> <li>• Stores, restaurants, service stations, accommodations</li> <li>• Transport resource locations</li> <li>• Rental equipment sources (by type)</li> <li>• Construction contractors</li> <li>• Sanitary facilities</li> <li>• Police, fire departments, forest service, ambulance</li> <li>• Power utility companies (gas and pipeline companies)</li> <li>• Communications (radio and frequencies, telephone)</li> </ul> | <ul style="list-style-type: none"> <li>• Community base map</li> <li>• Topographic maps</li> <li>• Infrared imagery</li> <li>• Vegetation/fuel maps</li> <li>• Hazard locations (ground and aerial)</li> <li>• Archeological and cultural base map</li> <li>• Endangered species and critical habitat</li> <li>• Sensitive plant populations</li> <li>• Water Sources</li> <li>• Land status</li> <li>• Priority zoning</li> <li>• Access and egress points and routes</li> <li>• High risk facilities (e.g., schools, hospitals)</li> <li>• Infrastructure</li> </ul> |

<sup>27</sup> National guide for wildland – urban – interface fires <https://nrc-publications.canada.ca/eng/view/object/?id=3a0b337f-f980-418f-8ad8-6045d1abc3b3>

- Sanitary landfills
- Potable water sources
- Maintenance facilities

## 5.6.2 Wildfire Preparedness Planning

As part of pre-incident planning, the municipality may consider developing local daily action guidelines based on expected wildfire conditions. The table below provides a template that can be tailored specifically to the Municipality outlining actions that staff, fire department members, and other emergency staff can take as fire danger levels change throughout the year. Some of these actions are already undertaken annually, (e.g. during Extreme fire danger, EOC staffing availability information is updated, and natural area closures occur), while other actions have not yet been initiated. Year-round, fire danger signs posted throughout municipality should be updated to reflect the current fire danger.

Table 23. Wildfire Response Preparedness Condition Guide

| Wildfire Response Preparedness Condition Guide |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Prep-Con Level                                 | Action Guidelines                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>I LOW</b>                                   | <ul style="list-style-type: none"> <li>• All Community staff on normal shifts.</li> <li>• Staff will update fire danger signs.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>II MODERATE</b>                             | <ul style="list-style-type: none"> <li>• All Community staff on normal shifts.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>III HIGH</b>                                | <ul style="list-style-type: none"> <li>• All Community staff on normal shifts.</li> <li>• Daily detection patrols by staff.</li> <li>• Regional fire situation evaluated.</li> <li>• Daily fire behaviour advisory issued.</li> <li>• Wildland fire-trained Community staff and EOC staff notified of Prep- Con level.</li> <li>• Establish weekly communications with local wildland fire agency contacts</li> <li>• Hourly rain profile for all weather stations after lightning storms. update fire danger signs.</li> </ul>                                                                      |
| <b>IV EXTREME</b>                              | <ul style="list-style-type: none"> <li>• Rain profile (see III).</li> <li>• Daily detection patrols by Staff.</li> <li>• Daily fire behaviour advisory issued.</li> <li>• Regional fire situation evaluated.</li> <li>• EOC staff considered for stand-by.</li> <li>• Wildfire Incident Command Team members considered for stand-by/extended shifts.</li> <li>• Designated Community staff: water tender and heavy machinery operators, arborists may be considered for stand-by/extended shifts.</li> <li>• Consider initiating Natural Area closures to align with regional situation.</li> </ul> |



|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                          | <ul style="list-style-type: none"> <li>• Provide regular updates to media Services members/Community staff on fire situation.</li> <li>• Update public website as new information changes.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                     |
| <b>V FIRE(S) ONGOING</b> | <ul style="list-style-type: none"> <li>• All conditions apply as for Level IV (regardless of actual fire danger rating).</li> <li>• Provide regular updates to media/structural fire departments/park staff on fire situation.</li> <li>• Mobilize EOC support if evacuation is possible, or fire event requires additional support.</li> <li>• Mobilize Wildfire Incident Command Team under the direction of the Fire Chief.</li> <li>• Implement Evacuation Alerts and Orders based on fire behaviour prediction and under the direction of the Fire Chief.</li> </ul> |

### 5.6.3 Emergency Planning Priority Action Table

The following table shows recommended priority action items for the RDCO to increase effectiveness of emergency planning.

Table 24. CWRP Emergency Planning Priority Action Table.

| RDCO CWRP Action Plan                                                                       |                                |           |             |                    |                                                       |                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------------------------------------------------------------------------|--------------------------------|-----------|-------------|--------------------|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action                                                                                      | Lead(s)                        | Priority  | Timeframe   | Resources Required | Metric for Success                                    | Rationale/Notes                                                                                                                                                                                                                                                                                                                                                                                    |
| Emergency Planning                                                                          |                                |           |             |                    |                                                       |                                                                                                                                                                                                                                                                                                                                                                                                    |
| Update the RDCO Emergency Plan to align with the new Emergency and Disaster Management Act. | RDCO Protective Services Staff | Very High | Immediately | Internal funding   | Emergency Plan has been updated to align with EDMA.   | The Emergency and Disaster Management Act (EDMA) replaced the Emergency Program Act (EPA) on November 8, 2023. The updated legislation reflects the realities of the modern world including global pandemics, security threats and climate change, and shifts from focusing on emergency response to the four phases of emergency management: mitigation, preparation, and recovery. <sup>28</sup> |
| Assess, inventory and purchase FireSmart structure protection equipment.                    | RDCO Fire Services Staff,      | Very High | Ongoing     | FCFS funding       | FireSmart Structure Protection equipment is procured. | FireSmart structure protection equipment can aid in wildfire response and suppression efforts throughout the RDCO.                                                                                                                                                                                                                                                                                 |

<sup>28</sup> [Modernized emergency management legislation.](#)

| RDCO CWRP Action Plan                                                                                                                                                                 |                                                 |           |                               |                                        |                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-----------|-------------------------------|----------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action                                                                                                                                                                                | Lead(s)                                         | Priority  | Timeframe                     | Resources Required                     | Metric for Success                                                      | Rationale/Notes                                                                                                                                                                                                                                                                                                                                                                                         |
| Encourage local residents to sign up for the Regional District of Central Okanagan <a href="#">emergency notification program</a> .                                                   | RDCO Protective Services Staff                  | Very High | Ongoing                       | Communication resources and channels   | 75% of residents are subscribed by the end of 2027.                     | Residents need access to trusted, timely and accurate information to ensure their own safety during an emergency event.<br><br>Encourage residents to follow the EOC's social media channels:<br><ul style="list-style-type: none"> <li><a href="https://facebook.com/CORDEmergency">facebook.com/CORDEmergency</a></li> <li><a href="https://twitter.com/co_emerg">twitter.com/co_emerg</a></li> </ul> |
| Develop a strategic plan to address evacuation in areas identified by the <a href="#">2022 RDCO Regional Evacuation Planning Framework</a>                                            | RDCO Protective Services Staff                  | High      | 2026-2029                     | UBCM funding, internal funding sources | Areas with insufficient egress routes are identified.                   | The <a href="#">Public Notification and Evacuation Route Planning</a> Stream of the UBCM administered Community Emergency Preparedness Fund provides funding to local governments.                                                                                                                                                                                                                      |
| Develop and/or participate in cross-jurisdictional meetings and tabletop exercises specifically focused on wildfire preparedness and response, including wildfire readiness meetings. | RDCO Fire Services Staff, FireSmart Coordinator | High      | Immediately and then annually | FCFS funding, venue                    | Annual or biannual participation in a meeting and or tabletop exercise. | Consider hiring an emergency management consultant to facilitate an annual tabletop exercise focused on a wildfire event impacting the RDCO. Consider partnership with members from the Okanagan Regional Community FireSmart and Resiliency Collaborative.                                                                                                                                             |

| RDCO CWRP Action Plan                                                                                                                                                                    |                                      |          |           |                              |                                               |                                                                                                                                                                                                                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|----------|-----------|------------------------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action                                                                                                                                                                                   | Lead(s)                              | Priority | Timeframe | Resources Required           | Metric for Success                            | Rationale/Notes                                                                                                                                                                                                                                                                             |
| Assess community water delivery ability as required for suppression activities in the municipal area and wildland urban interface.                                                       | RDCO Fire Services Staff             | High     | 2026-2028 | FCFS funding                 | Report and next steps are generated.          | Address areas without water coverage and consider adding dry hydrants in key locations or similar infrastructure to support fire suppression.                                                                                                                                               |
| Install dry hydrants or similar infrastructure in strategic locations throughout the WUI and municipal areas to enhance water availability and support interface suppression operations. | RDCO Development & Engineering Staff | High     | 2026-2028 | Internal or external funding | Areas with inadequate coverage are addressed. | Address areas without water coverage and consider adding dry hydrants in key locations or similar infrastructure to support fire suppression.                                                                                                                                               |
| Annually review the <u>UBCM Community Emergency Preparedness Fund</u> for funding opportunities.                                                                                         | RDCO Protective Services Staff       | Moderate | Annually  | Internal capacity            | Annually review for eligible opportunities.   | RDCO should consider applying for the following: <ul style="list-style-type: none"> <li>• Emergency Operations Centres Equipment and Training</li> <li>• Emergency Support Services Equipment and Training</li> <li>• Extreme Temperatures Risk Mapping, Assessment and Planning</li> </ul> |

| RDCO CWRP Action Plan                                                                                                                                          |                                                 |          |           |                                                                                                                |                                          |                                                                                                                                                                                                                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|----------|-----------|----------------------------------------------------------------------------------------------------------------|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action                                                                                                                                                         | Lead(s)                                         | Priority | Timeframe | Resources Required                                                                                             | Metric for Success                       | Rationale/Notes                                                                                                                                                                                                               |
| Promote the <a href="#">EMCR Wildfire Preparedness Guide</a> and <a href="#">Wildfire Evacuation Checklist</a> at open houses and community engagement events. | RDCO Fire Services Staff, FireSmart Coordinator | Moderate | Ongoing   | FCFS funding, <a href="#">EMCR Wildfire Preparedness Guide</a> , <a href="#">Wildfire Evacuation Checklist</a> | Resources are promoted to the community. | As demonstrated during the 2021 and 2023 wildfire season, evacuation orders can be issued suddenly due to fast-moving wildfires. Prepared communities are better equipped to respond quickly and safely during an evacuation. |



## 5.7 Vegetation Management

The general goal of vegetation management is to reduce the potential wildfire intensity and ember exposure to people, infrastructure, structures and other values through manipulation of both the natural and cultivated vegetation that is within or adjacent to a community. A well-planned vegetation management strategy that is coordinated with development, planning, legislation and emergency response wildfire risk reduction objectives can greatly increase fire suppression effectiveness and reduce damage and losses to structure and infrastructure.

**Goal:** Proactively manage vegetation at multiple scales such as the Home Ignition Zone, Community Zone and Landscape Zone to reduce the potential wildfire intensity and ember exposure to people, infrastructure, and other values.

**Context:** Fuel management, also referred to as vegetation management or fuel treatment, is an important element of wildfire risk reduction within the WUI. The objective of fuel management treatments is to reduce fuels available to burn and alter aspects of wildfire behaviour, such as decreasing potential intensity, to help limit damage to infrastructure and allow for safer and more effective suppression strategies.

Approximately 40% of the eligible WUI land base in RDCO is occupied by private land parcels in which government funded fuel management treatments are ineligible. Completing fuel management treatments on Crown or municipal land without similar wildfire risk reduction activities and treatment on adjacent private land can ultimately reduce the effectiveness of fuel treatments. This highlights the critical importance of private landowners implementing FireSmart treatments on their homes/structures and extending out into the Immediate, Intermediate, and Extended Zones. This is particularly important for large, forested private land parcels often found in rural communities.

**Current Status:** See Section 5.7.4 Complete or Prescribed Fuel Treatment Units for more information.

### 5.7.1 FireSmart Landscaping

FireSmart landscaping is the removal, reduction, or conversion of flammable plants (such as landscaping for residential properties, parks, open spaces, and critical infrastructure) to create more fire – resistant areas in the Home Ignition Zone around homes, structures, and infrastructure. The [FireSmart BC Landscaping Guide](#) is an excellent tool to help residents and planners make informed choices about how

to manage their lawns and gardens to increase resilience to wildfire on their properties. The guide provides a diverse list of fire-resilient plants suitable for different areas of the Province based on cold-hardiness, drought tolerance, and avoidance of harmful invasive species. Additionally, it provides tips for spacing and pruning of vegetation, mulch considerations, and maintenance.

Vegetation management guidelines at the residential scale are further delineated by the FireSmart priority zones as illustrated in Appendix B.

### 5.7.2 Critical Infrastructure Hazard Assessment

FireSmart BC has developed a [FireSmart Critical Infrastructure \(CI\) Hazard Assessment Form](#) for assessing the vulnerability of critical infrastructure to wildfire. Results of the assessment can help provide mitigation recommendations to enhance wildfire resiliency, including upgrades to structure components or vegetation management in the Ignition Zones surrounding the structure. In many cases, the assessment and subsequent mitigation may extend beyond the legal land parcels on which the critical infrastructure occupies and may require collaboration with adjacent land managers or landowners. Completion of FireSmart Critical Infrastructure Hazard Assessments on CI identified for the RDCO was beyond scope of this CWRP project; however, an important next step would be to complete FireSmart Assessments on the highest priority values throughout the regional district.

### 5.7.3 Culturally Significant Sites and Green Spaces

The [FireSmart Culturally Significant Sites and Green Spaces \(CSGS\) Assessment](#) is a qualitative process that is intended for assessing vulnerability of First Nation cultural sites and local government green spaces. These can include sacred or traditional use sites, cultural features, parks, cemeteries, trails, and greenways. Implementing FireSmart activities in CSGS involves managing vegetation and adopting fire-resistant landscaping practices to reduce wildfire risk and enhance resilience. FireSmart vegetation management focuses on intentionally removing or reducing flammable plants and vegetation, both natural and cultivated. This minimizes potential fuel sources, lowers wildfire intensity, and decreases overall risk in CSGS from embers and flames. Refer to the [Culturally Significant Sites and Green Spaces Guide](#) for more information.

Completing FireSmart CSGS Assessments was beyond the scope of this CWRP. However, funding is currently available for FireSmart activities within these spaces should the RDCO be interested in implementing FireSmart landscaping in any of their regional or community parks, or other important green spaces.

The following steps are required under the CRI program for FireSmart CSGS projects:

1. *Checklist for CRI Requirements for Fuel Management Prescription* is required to be completed before CSGS Assessment is started (completed checklist must be submitted at time of application but the cost is an eligible expense provided the assessment is completed within six months prior to the date of application submission).
2. Completion of *FireSmart CSGS Assessment* before mitigation work is started (completed assessment must be submitted at time of application but the cost is an eligible expense provided the assessment is completed within six months prior to the date of application submission).
3. Complete recommended mitigation activities identified in the *FireSmart CSGS Assessment*.

Proposed Fuel Treatment Units (FTUs) are identified in the following Regional and Community Parks that **may** be suitable candidates for a FireSmart CSGS project:

- Kopje Regional Park (EA East)
- Joe Rich Community Hall Park (EA East)
- Shannon Lake Regional Park (EA West)
- Gellatly Heritage Regional Park (EA West)
- Hardy Falls Regional Park (EA West)
- Killiney Community Hall Park (EA West)
- Raymer Bay Regional Park (EA West)
- Star Regional Park (EA West)

Refer to Table 27 and The following table details the proposed FTUs for Electoral Area West and includes information on their priority ranking, general size, associated wildfire threat, overlapping values, and rationale for treatment. Maps outlining the location of the FTUs can be found in 7.0Appendix D.

Table 28 for more information on these areas. Please note that CSGS projects are intended to be for minor works over relatively small areas – as identified in the eligible activities for CSGS in the most up to date *FCFS Application-based Funding for FireSmart Activities Program and Application Guide*.

## 5.7.4 Complete or Prescribed Fuel Treatment Units

Significant fuel management has occurred throughout the RDCO over the past 20 years. Currently, the RDCO has prescriptions developed and ready for treatment implementation, in Mill Creek and Scenic Canyon Regional parks.

The following map displays an overview of the 58 known completed or prescribed FTUs within the AOI across multiple jurisdictions. **Please refer to 7.0Appendix D for detailed maps.**



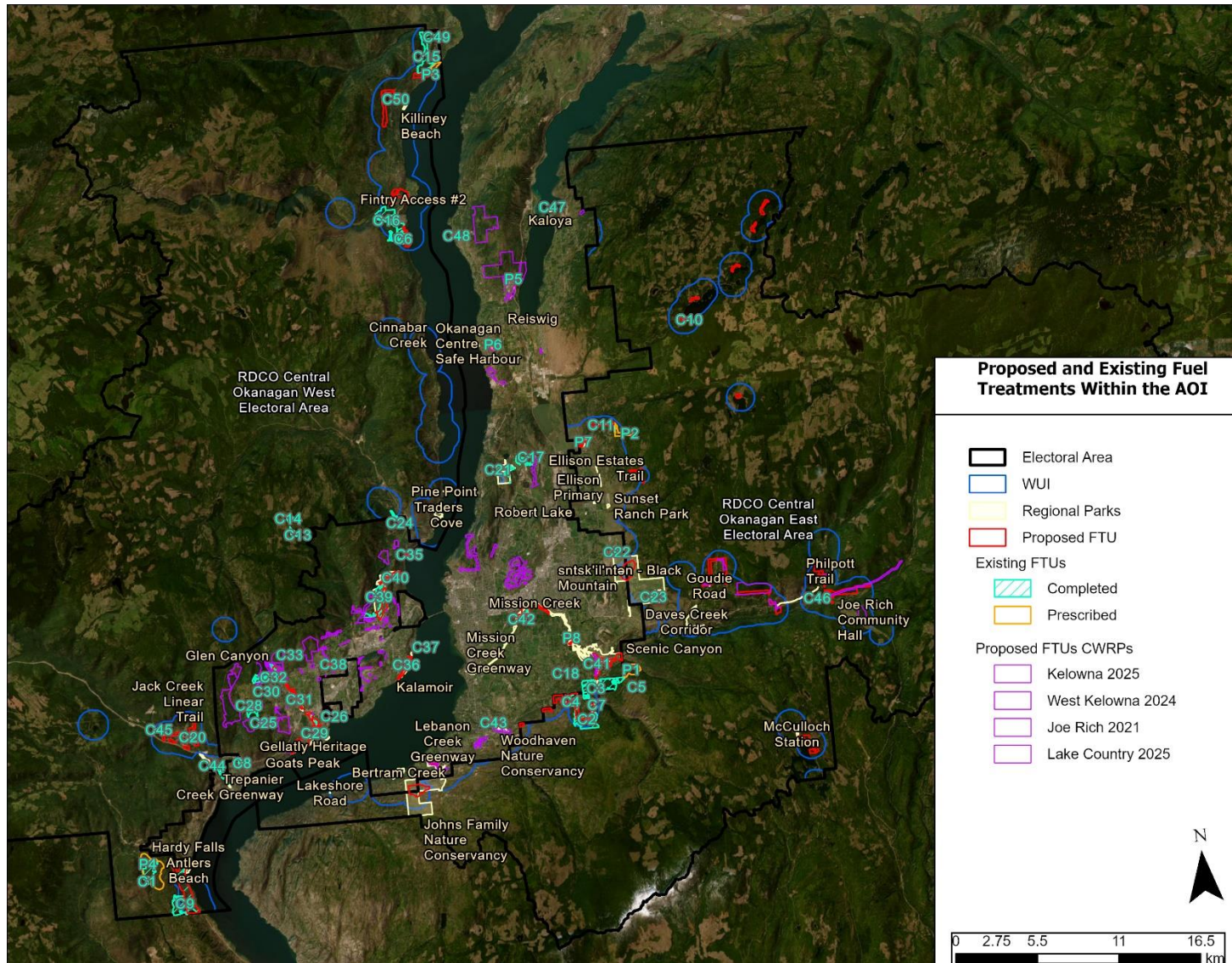


Figure 25. Known completed and prescribed FTUs within the AOI.

The following table identifies FTUs that are known to be **completed** within the AOI as identified in Figure 25.

Table 25. Known, completed FTUs within the AOI.

| Map Label | Project ID    | Ownership                               | Area (ha) | Year |
|-----------|---------------|-----------------------------------------|-----------|------|
| C1        | CLWRR-MONRO-1 | Crown Provincial                        | 84.7      | 2022 |
| C2        | CLWRR-SEK-5-8 | Crown Provincial - BC Parks             | 144.8     | 2022 |
| C3        | CRI313        | Municipal - City of Kelowna             | 44.5      | 2023 |
| C4        | CLWRR-SEK-2   | Crown Provincial                        | 57.1      | 2019 |
| C5        | CLWRR-SEK-9   | Crown Provincial                        | 81.9      | 2022 |
| C6        | WRKA010       | Crown Provincial                        | 39.3      | 2024 |
| C7        | WR0000120     | Crown Provincial                        | 13.4      | 2019 |
| C8        | CRI150        | Crown Provincial                        | 8.1       | 2021 |
| C9        | WR0000086     | Crown Provincial                        | 280.4     | 2018 |
| C10       | WR0000970     | Crown Provincial                        | 12.0      | 2020 |
| C11       | WR0000968     | Crown Provincial                        | 12.5      | 2020 |
| C12       | CRI69         | Crown Provincial - WFN Community Forest | 3.6       | 2021 |
| C13       | Hid_PCT_Bl2   | Crown Provincial - WFN Community Forest | 8.9       | 2024 |
| C14       | Hid_PCT_Bl1   | Crown Provincial - WFN Community Forest | 10.4      | 2024 |
| C15       | WRKA0056      | Crown Provincial                        | 121.7     | 2022 |
| C16       | WRKA0092      | Crown Provincial - BC Parks             | 112.8     | 2023 |
| C17       | SWPI324       | Municipal - City of Kelowna             | 40.4      | 2013 |
| C18       | SWPI401       | Crown Provincial                        | 10.0      | 2013 |
| C19       | SWPI403       | Municipal - City of Kelowna             | 7.7       | 2013 |
| C20       | SWPI405       | RDCO                                    | 8.8       | 2013 |
| C21       | SWPI404       | RDCO                                    | 20.1      | 2013 |
| C22       | SWPI543       | Municipal - City of Kelowna             | 6.4       | 2015 |
| C23       | SWPI551       | RDCO                                    | 5.1       | 2015 |



|     |             |                                            |      |      |
|-----|-------------|--------------------------------------------|------|------|
| C24 | SWPI442     | Crown Provincial - WFN<br>Community Forest | 35.4 | 2014 |
| C25 | SWPI557     | Crown Provincial -<br>WFN Community Forest | 45.3 | 2015 |
| C26 | SWPI450     | RDCO                                       | 15.2 | 2014 |
| C27 | SWPI689     | Crown Provincial -<br>WFN Community Forest | 40.8 | 2016 |
| C28 | SWPI843     | Crown Provincial -<br>WFN Community Forest | 21.3 | 2017 |
| C29 | GH-2010     | RDCO                                       | 2.9  | 2010 |
| C30 | GC1-2010    | RDCO                                       | 6.8  | 2010 |
| C31 | GC2-2010    | RDCO                                       | 4.6  | 2010 |
| C32 | GC3-2010    | RDCO                                       | 1.2  | 2010 |
| C33 | GC4-2010    | RDCO                                       | 0.8  | 2010 |
| C34 | GC5-2010    | RDCO                                       | 9.3  | 2010 |
| C35 | RB-2010     | RDCO                                       | 2.6  | 2010 |
| C36 | Kal-2006    | RDCO                                       | 2.3  | 2006 |
| C37 | Kal2010     | RDCO                                       | 27.6 | 2010 |
| C38 | SL-2010     | RDCO                                       | 3.6  | 2010 |
| C39 | RV-2011     | RDCO                                       | 95.5 | 2011 |
| C40 | RV-2015     | RDCO                                       | 10.6 | 2015 |
| C41 | SC-2015     | RDCO                                       | 21.2 | 2015 |
| C42 | MC2010      | RDCO                                       | 16.6 | 2010 |
| C43 | WH2009      | RDCO                                       | 1.8  | 2009 |
| C44 | TCG-2010    | RDCO                                       | 23.8 | 2010 |
| C45 | WFN-2010    | Crown Provincial -<br>WFN Community Forest | 13.9 | 2010 |
| C46 | TF-2007     | RDCO                                       | 1.4  | 2007 |
| C47 | KALOYA-2006 | RDCO                                       | 1.3  | 2006 |
| C48 | KOP-2010    | RDCO                                       | 1.1  | 2010 |
| C49 | WECP-2011   | RDCO                                       | 1.0  | 2011 |
| C50 | KCH-2006    | RDCO                                       | 1.2  | 2006 |

The following table identifies FTUs that are known to be **prescribed** within the AOI as identified in Figure 25.

Table 26. Known, prescribed FTUs within the AOI.

| Map Label | Project ID    | Ownership                   | Area (ha) | Year |
|-----------|---------------|-----------------------------|-----------|------|
| C1        | CLWRR-MONRO-1 | Crown Provincial            | 84.7      | 2022 |
| C2        | CLWRR-SEK-5-8 | Crown Provincial - BC Parks | 144.8     | 2022 |
| C3        | CRI313        | Municipal - City of Kelowna | 44.5      | 2023 |
| C4        | CLWRR-SEK-2   | Crown Provincial            | 57.1      | 2019 |
| C5        | CLWRR-SEK-9   | Crown Provincial            | 81.9      | 2022 |
| C6        | WRKA010       | Crown Provincial            | 39.3      | 2024 |
| C7        | WR0000120     | Crown Provincial            | 13.4      | 2019 |
| C8        | CRI150        | Crown Provincial            | 8.1       | 2021 |

### 5.7.5 Proposed Fuel Treatment Units

The proposed FTUs for this CWRP were identified based on wildfire threat. FTU location was based on completed field work, available crown land located within the eligible WUI, proximity to values, accessibility, and fuel type hazard. The areas identified for potential treatment within the RDCO are identified in Table 27 and The following table details the proposed FTUs for Electoral Area West and includes information on their priority ranking, general size, associated wildfire threat, overlapping values, and rationale for treatment. Maps outlining the location of the FTUs can be found in 7.0Appendix D.

Table 28.

FTUs are given general priority ranking, as follows:

**1 = High Priority**

**2 = Moderate Priority**

**3 = Lower Priority**

Priority ranking assignment took into consideration a multitude of factors including both the Wildfire Threat Assessment Scores and Priority Setting Scores from the Wildfire Threat Assessment Worksheet completed in the field, as well as other local factors such as accessibility, anchoring features, overlapping values, and/or constraints to fuel management activities. Prioritization ranking did NOT consider political or public appetite for fuel treatment activity within specific communities/neighbourhoods.

Assigning priority levels and rankings can be a subjective process based on best available information and an imperfect science, the RDCO withholds the right to complete proposed fuel treatment activities in whatever order they see fit.

The Priority Ranking of FTUs within this CWRP is intended to guide the Regional District to pursue fuel treatment activities based on overall wildfire threat of a stand, risk to values, and efficacy of treatment. Furthermore, the FTUs identified as part of this CWRP are only proposed and require further refinement based on more intensive data collected during the fuel management prescription development phase.

The accompanying maps and tables identify all **known** fuel treatment units that have been proposed, prescribed, and completed across all Jurisdictions within the AOI. This dataset may not be comprehensive and was built on accessible data from land managers. FTUs that have been proposed in the following CWRPs are identified:

- City of Kelowna 2025 CWRP
- City of West Kelowna 2024 CWRP
- Joe Rich 2021 CWRP
- District of Lake Country CWRP 2025

As mentioned previously, the District of Peachland 2025 CWRP was under development at the same time as the RDCO 2025 CWRP, projects were cross referenced to ensure no redundancy in proposed FTUs.

The 2025 RDCO CWRP cross referenced FTUs that were proposed in the 2021 RDCO Parks CWRP to ensure consistency and made updates based on reassessed field data. Overlaps with the 2021 RDCO Parks CWPP and all other available proposed, prescribed, or completed FTUs are identified in Table 27 and The following table details the proposed FTUs for Electoral Area West and includes information on their priority ranking, general size, associated wildfire threat, overlapping values, and rationale for treatment. Maps outlining the location of the FTUs can be found in 7.0Appendix D.

Table 28.



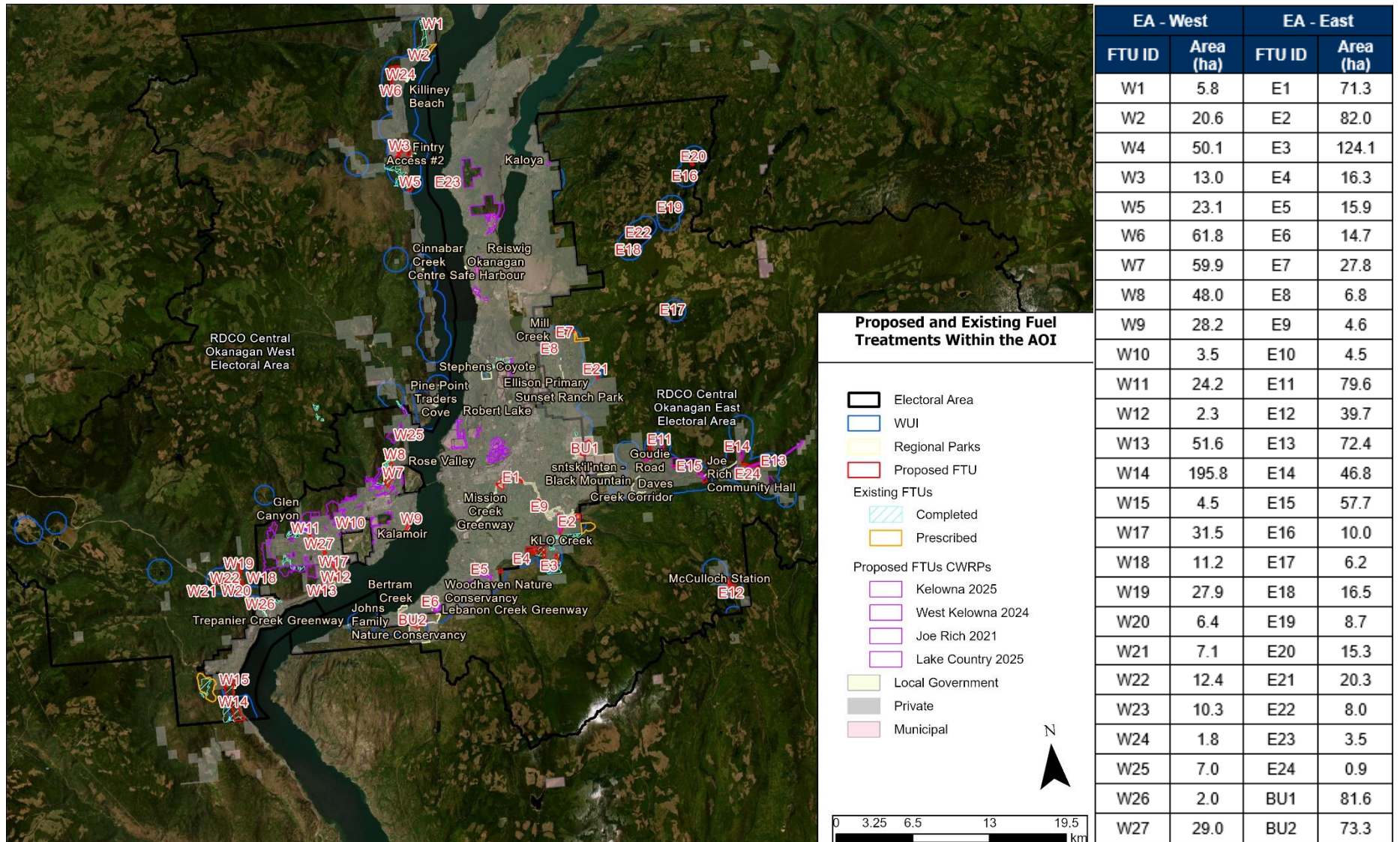


Figure 26. Proposed Fuel Treatment Units in the RDCO AOI.

The following table details the proposed FTUs for Electoral Area West and includes information on their priority ranking, general size, associated wildfire threat, overlapping values, and rationale for treatment. Maps outlining the location of the FTUs can be found in 7.0Appendix D.

Table 27. Proposed fuel treatment unit summary table for the RDCO CWRP Electoral Area West.

| FTU ID<br>&<br>WTA ID | Priority<br>Level | Total<br>Area<br>(ha) | Treatment Unit<br>Type                 | Local Fuel Threat (ha) |      |     | Overlapping Values /<br>Treatment Constraints                                                                                                                                                                                                                                                                                                                                                               | Treatment Rationale                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Comments                                                                            | Responsibility<br>Area | FTU Overlaps and<br>Adjacency                                                                                                                                                                                                                                                                                                                    |
|-----------------------|-------------------|-----------------------|----------------------------------------|------------------------|------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       |                   |                       |                                        | Extreme<br>/ High      | Mod  | Low |                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                     |                        |                                                                                                                                                                                                                                                                                                                                                  |
| FTU_W1<br>LH_W1       | 3                 | 5.8                   | Community<br>resilience                |                        | 5.8  |     | <ul style="list-style-type: none"> <li>•Critical Habitat: American Badger Jeffersonii subspecies, Great Basin Gophersnake, Western Rattlesnake</li> <li>•Endangered Occurrences: American Badger</li> <li>•Traplines: TR0320T005</li> <li>•Ungulate Winter Range Conditional Harvest Approved: u-8-001</li> </ul>                                                                                           | The FTU is located adjacent to a previously completed fuel treatment within the Westshore Estates Community Park and connects the completed fuels treatment to the boundary of the OKIB IR #1. The fuel type is C-7. The stand is relatively low sph, both under and overstory, with 10-13 tph of surface fuels. This has resulted in a <b>Moderate Threat Rating</b> and a <b>Low priority</b> . Treatment would best be completed through pruning, understory thinning and surface fuel clean-up. The objective for treatment would be to connect the completed fuel treatment unit to the OKIB community boundary.                        | Westshore Estates Community Park<br><br><b>Historical Fire Occurrence:</b> 293 1929 | RDCO Parks: Community  | <b>Proposed in other Plans:</b> <ul style="list-style-type: none"> <li>• RDCO Parks 2020 CWPP FTU: WU11</li> </ul> <b>Adjacent to Completed:</b> <ul style="list-style-type: none"> <li>• Crown Provincial WRKA0056 (Map Label C15)</li> </ul> <b>Completed:</b> <ul style="list-style-type: none"> <li>RDCO WECP2011 (Map Label C49)</li> </ul> |
| FTU_W10<br>LH_W15     | 3                 | 3.5                   | Community<br>resilience;<br>Greenspace |                        |      | 3.5 | <ul style="list-style-type: none"> <li>•Critical Habitat: Great Basin Gophersnake, Gypsy Cuckoo Bumble Bee</li> <li>•Guide Outfitters: K9s Cougar Canyon Outfitters Inc</li> <li>•Endangered Occurrences: Painted Turtle - Intermountain - Rocky Mountain Population, Common Cattail Marsh</li> <li>•Traplines: TR0811T037</li> <li>•Ungulate Winter Range Conditional Harvest Approved: u-8-001</li> </ul> | The FTU is located within Shannon Lake Regional Park in West Kelowna. It is surrounded by private properties. The fuel type is C-7, with a relatively open understory and moderately dense overstory. There are areas within the FTU that are grassy/park areas. This has resulted in a <b>Low Threat Rating</b> and a <b>Low priority</b> . Treatment could be an understory thin and prune with removal of any standing dead stems. The objective of treatment is to reduce hazard around private properties should a fire start within the park. Consider pursuit of CSGS assessment followed by implementation of mitigation activities. | Shannon Lake Regional Park<br><br><b>Historical Fire Occurrence:</b> K00559 1969    | RDCO Parks             | <b>Proposed in other Plans:</b> <ul style="list-style-type: none"> <li>• RDCO Parks 2020 CWPP FTU: SLA1</li> </ul> <b>Completed:</b> <ul style="list-style-type: none"> <li>RDCO SL2010 (Map Label C38)</li> </ul>                                                                                                                               |
| FTU_W11<br>LH_W16     | 2                 | 24.2                  | Community<br>resilience                |                        | 24.2 |     | <ul style="list-style-type: none"> <li>•Critical Habitat: Great basin Gophersnake</li> <li>•Guide Outfitters: K9s Cougar Canyon Outfitters Inc</li> </ul>                                                                                                                                                                                                                                                   | The FTU is adjacent to several private properties and is located within Glen Canyon Regional Park. The unit partially overlaps the K1P Community Forest. Any treatment unit will need to be coordinated with the Westbank First Nation Community Forest. The fuel                                                                                                                                                                                                                                                                                                                                                                            | Glen Canyon Regional Park                                                           | RDCO Parks             | <b>Proposed in other Plans:</b> <ul style="list-style-type: none"> <li>• RDCO Parks 2020 CWPP FTU: GCG5</li> <li>• City of West</li> </ul>                                                                                                                                                                                                       |



| FTU ID<br>&<br>WTA ID | Priority<br>Level | Total<br>Area<br>(ha) | Treatment Unit<br>Type                                          | Local Fuel Threat (ha) |     |      | Overlapping Values /<br>Treatment Constraints                                                                                                                                                                                                                                                                | Treatment Rationale                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Comments                                                                                                                                                                                                                             | Responsibility<br>Area | FTU Overlaps and<br>Adjacency                                                                                                                                                                   |
|-----------------------|-------------------|-----------------------|-----------------------------------------------------------------|------------------------|-----|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       |                   |                       |                                                                 | Extreme<br>/ High      | Mod | Low  |                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                      |                        |                                                                                                                                                                                                 |
|                       |                   |                       |                                                                 |                        |     |      | <ul style="list-style-type: none"> <li>•Managed License: K1 P A Schedule B</li> <li>•Range Tenure: RAN077314</li> <li>•Recreation: Smith Creek Area</li> <li>•Traplines: TR0811T037</li> <li>•Ungulate Winter Range Conditional Harvest Approved: u-8-001</li> </ul>                                         | type is C-7. The overstory is healthy and the understory is patchy. The fuel strata gap is <3 m. Several adjacent properties appear to be thinned and pruned. This has resulted in a <b>Moderate Threat Rating</b> and a <b>Moderate priority</b> . Treatment. Treatment could include a partial harvest, but would also be effective as an understory thin, prune and surface fuel clean-up. Treatment objective is to increase defensible space around private properties and increase chances of tree survival in the event of a fire. |                                                                                                                                                                                                                                      |                        | Kelowna 2025 CWRP FTU: Powers Creek TU 4 (24a)<br><br><b>Completed:</b><br>RDCO GC5-2010 (Map Label C34)                                                                                        |
| FTU_W12<br>LH_W19     | 3                 | 2.3                   | Community resilience;<br>Critical infrastructure;<br>Greenspace |                        |     | 2.3  | <ul style="list-style-type: none"> <li>•Critical Habitat: Great Basin Gophersnake, Gypsy Cuckoo bumble bee, Lewis's Woodpecker</li> <li>•Guide Outfitters: K9s Cougar Canyon Outfitters Inc</li> <li>•Traplines: TR0811T037</li> <li>•Ungulate Winter Range Conditional Harvest Approved: u-8-001</li> </ul> | The FTU is adjacent to Gellatly Heritage Regional Park, private land and a waste treatment facility. The fuel type is O-1. The stand is open grass with minimal ponderosa stems. This has resulted in a <b>Low Threat Rating</b> and a <b>Low priority</b> . Consider pursuit of <b>CSGS assessment</b> followed by implementation of mitigation activities.                                                                                                                                                                              | Gellatly Heritage Regional Park<br><br><b>Historical Fire Occurrence:</b><br>K50739 2009                                                                                                                                             | RDCO Parks             | <b>Completed:</b><br>RDCO GH2010 (Map Label C29)                                                                                                                                                |
| FTU_W13<br>LH_W20     | 3                 | 51.6                  | Community resilience;<br>Prescribed burn                        |                        |     | 51.6 | <ul style="list-style-type: none"> <li>•Critical Habitat: Great Basin Gophersnake, Gypsy Cuckoo Bumble Bee, Lewis's Woodpecker</li> <li>•Guide Outfitters: K9s Cougar Canyon Outfitters Inc</li> <li>•Traplines: TR0811T037</li> <li>•Ungulate Winter Range Conditional Harvest Approved: u-8-001</li> </ul> | The FTU is located in Goats Peak Regional Park adjacent to private land. The fuel type is C-7 and O-1. The stand is open and steep (>60%). This has resulted in a <b>Low Threat Rating</b> and a <b>Low priority</b> . However, treatment could consider the use of prescribed fire to increase habitat values for the local goat populations.                                                                                                                                                                                            | Goats Peak Regional Park<br><br><b>Historical Fire Occurrence:</b><br>K50739 2009,<br><br>Some components may be suitable for Rx Burn. It is expected that during FMP and Burn Plan development the unit may expand or be refined to | RDCO Parks             | <b>Proposed in other Plans:</b> <ul style="list-style-type: none"> <li>• RDCO Parks 2020 CWPP FTU: GPE2</li> <li>• City of West Kelowna 2025 CWRP FTU: Seclusion Bay Rd Egress (13b)</li> </ul> |

| FTU ID<br>&<br>WTA ID        | Priority<br>Level | Total<br>Area<br>(ha) | Treatment Unit<br>Type                                                 | Local Fuel Threat (ha) |       |      | Overlapping Values /<br>Treatment Constraints                                                                                                                                                                                                                                                                                                                                                   | Treatment Rationale                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Comments                                                                                         | Responsibility<br>Area | FTU Overlaps and<br>Adjacency                                                                                                                                                               |
|------------------------------|-------------------|-----------------------|------------------------------------------------------------------------|------------------------|-------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                              |                   |                       |                                                                        | Extreme<br>/ High      | Mod   | Low  |                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                  |                        |                                                                                                                                                                                             |
|                              |                   |                       |                                                                        |                        |       |      |                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | derive logical<br>burn unit(s).                                                                  |                        |                                                                                                                                                                                             |
| FTU_W14<br>LH_W23;<br>LH_W24 | 3                 | 195.8                 | Community<br>resilience;<br>Egress safety;<br>Maintenance<br>treatment |                        | 195.8 |      | <ul style="list-style-type: none"> <li>•Critical Habitat: Great Basin Gophersnake, Lewis's Woodpecker</li> <li>•Guide Outfitters: K9s Cougar Canyon Outfitters Inc</li> <li>•Range Tenure: RAN077309</li> <li>•Endangered Occurrences: Lewis's Woodpecker</li> <li>•Traplines: TR0808T028, TR0808T038</li> <li>•Ungulate Winter Range Conditional Harvest Approved: u-8-001, u-8-005</li> </ul> | The FTU is located adjacent to private land. The fuel type is C-7. Surface fuels range from 12-20 tph and trees within the previous treatment unit were pruned to 2 m. The stand should be considered for maintenance treatment. This has resulted in a <b>Moderate Threat Rating</b> and a <b>Low priority</b> . Due to potential for drought and poor access, a partial harvest is unlikely. Treatment would include understory thinning, pruning and surface fuel clean-up. The objective is to maintain defensible space around private properties and increase egress safety along Highway 97. | This is a maintenance treatment.<br><br><b>Historical Fire Occurrence:</b> 170 1932, K51264 2018 | Crown                  | <b>Completed:</b><br>Crown Provincial WR0000086 (Map Label C9)                                                                                                                              |
| FTU_W15<br>LH_W23            | 3                 | 4.5                   | Community<br>resilience;<br>Greenspace                                 |                        | 4.5   |      | <ul style="list-style-type: none"> <li>•Critical Habitat: Great Basin Gophersnake, Lewis's Woodpecker</li> <li>•Guide Outfitters: K9s Cougar Canyon Outfitters Inc</li> <li>•Endangered Occurrences: Lewis's Woodpecker and Western Screech-Owl</li> <li>•Traplines: TR0808T038</li> <li>•Ungulate Winter Range Conditional Harvest Approved: u-8-001</li> </ul>                                | The FTU is small and surrounded by private land and is located within Hardy Falls Regional Park. The fuel type is C-7. This has resulted in a <b>Moderate Threat Rating</b> and a <b>Low priority</b> . The objective of treatment would be to reduce hazard around private land should a fire start within the park. Treatment would be a low impact thin, prune and surface fuel clean-up. Consider pursuit of CSGS assessment followed by implementation of mitigation activities.                                                                                                               | Hardy Falls Regional Park                                                                        | RDCO Parks             | N/A                                                                                                                                                                                         |
| FTU_W17<br>LH_W18            | 3                 | 31.5                  | Community<br>Resilience;<br>Maintenance<br>Treatment                   |                        |       | 31.5 | <ul style="list-style-type: none"> <li>•Critical Habitat: Great Basin Gophersnake, Gypsy Cuckoo Bumble Bee</li> <li>•Guide Outfitters: K9s Cougar Canyon Outfitters Inc</li> <li>•Endangered Occurrences: Western Screech-Owl, macfarlanei subspecies</li> <li>•Traplines: TR0811T037</li> </ul>                                                                                                | The FTU is adjacent to several private properties and is located within Glen Canyon Regional Park; this is a high use park with trails throughout. The stand is represented by open C-7 fuel type. The overstory has a high crown base height with minimal understory stems resulting in discontinuous vertical and horizontal fuel loading. This has resulted in a <b>Low Threat Rating</b> and a <b>Low priority</b> . Treatment could include a partial harvest, but would also be effective as an understory                                                                                    | This is a maintenance treatment.                                                                 | RDCO Parks             | <b>Proposed in other Plans:</b> <ul style="list-style-type: none"> <li>• RDCO Parks 2020 CWPP FTU: GCG1</li> <li>• City of West Kelowna 2025 CWRP FTU: Westbank Centre Park (27)</li> </ul> |

| FTU ID<br>&<br>WTA ID | Priority<br>Level | Total<br>Area<br>(ha) | Treatment Unit<br>Type  | Local Fuel Threat (ha) |      |     | Overlapping Values /<br>Treatment Constraints                                                                                                                                                                                                                                                                                                                                                                                   | Treatment Rationale                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Comments                                                                                       | Responsibility<br>Area                       | FTU Overlaps and<br>Adjacency                                                                                                                           |
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|                       |                   |                       |                         | Extreme<br>/ High      | Mod  | Low |                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                |                                              |                                                                                                                                                         |
|                       |                   |                       |                         |                        |      |     | •Ungulate Winter Range<br>Conditional Harvest<br>Approved: u-8-001                                                                                                                                                                                                                                                                                                                                                              | thin, prune and surface fuel clean-up. Treatment<br>objective is to increase defensible space around<br>private properties and increase chances of tree<br>survival in the event of a fire. The FTU will need to be<br>refined during prescription development to remove<br>steep slopes and riparian areas.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                |                                              | <b>Completed:</b><br>RDCO SWPI450<br>(Map Label C26)                                                                                                    |
| FTU_W18<br>LH_W28     | 1                 | 11.2                  | Community<br>resilience |                        | 11.2 |     | •Community Watersheds:<br>Trepanier Community<br>Watershed<br>•Critical Habitat: Great<br>Basin Gophersnake<br>•Guide Outfitters: K9s<br>Cougar Canyon Outfitters<br>Inc<br>•Range Tenure:<br>RAN077416<br>•Slope Stability: Stable<br>•Terrain Erosion: Very Low,<br>Low and Moderate<br>•Traplines: TR0808T038<br>•Ungulate Winter Range<br>Conditional Harvest<br>Approved: u-8-001                                          | This FTU is located west of West Kelowna and north<br>of Peachland and is adjacent to several private<br>properties. The proposed unit connects to a 2013<br>SWPI treatment in Coldham Regional Park unit that is<br>not yet ready for maintenance treatment. The fuel type<br>is C-7. The understory and overstory are moderately<br>dense, with a fuel strata gap of <3 m. Surface fuels<br>range from 10-23 tph. This has resulted in a <b>Moderate<br/>Threat Rating</b> and a <b>High priority</b> .<br><br>Could be considered for a partial harvest. Treatment<br>could also be completed by understory thinning,<br>pruning and surface fuel clean-up. The objective of<br>treatment is to increase defensible space around the<br>community.                                                                                                                                                                                       | Not within a Fire<br>Protection Area.                                                          | Crown                                        | <b>Proposed in other<br/>Plans:</b><br>RDCO Parks 2020<br>CWPP FTU:<br>WUI22<br><br>Adjacent to<br><b>Completed:</b><br>RDCO SWPI405<br>(Map Label C20) |
| FTU_W19<br>LH_W28     | 1                 | 27.9                  | Community<br>resilience |                        | 27.9 |     | •Community Watersheds:<br>Trepanier Community<br>Watershed<br>•Great Basin Gophersnake<br>•Guide Outfitters: K9s<br>Cougar Canyon Outfitters<br>Inc<br>•Managed License: K1 P A<br>Schedule B<br>•Range Tenure:<br>RAN077416<br>•Old Growth Priority<br>Deferral Area<br>•Terrain Erosion: Very Low,<br>Low, Moderate, and High<br>•Traplines: TR0808T038<br>•Ungulate Winter Range<br>Conditional Harvest<br>Approved: u-8-001 | This FTU is located west of West Kelowna and north<br>of Peachland and is adjacent to several private<br>properties. The unit partially overlaps the K1P<br>Community Forest. Any treatment unit will need to be<br>coordinated with the Westbank First Nation<br>Community Forest. The proposed unit connects to a<br>2013 treatment unit in Coldham Regional Park that is<br>not yet ready for maintenance treatment and a 2025<br>WRR treatment. The fuel type is C-7. The understory<br>and overstory are moderately dense, with a fuel strata<br>gap of <3 m. Surface fuels range from 10-23 tph. This<br>has resulted in a <b>Moderate Threat Rating</b> and a <b>High<br/>priority</b> .<br><br>Could be considered for a partial harvest. Treatment<br>could also be completed by understory thinning,<br>pruning and surface fuel clean-up. The objective of<br>treatment is to increase defensible space around the<br>community. | Not within a Fire<br>Protection Area.<br><br><b>Historical Fire<br/>Occurrence: 3<br/>1933</b> | Westbank First<br>Nation Community<br>Forest | <b>Proposed in other<br/>Plans:</b><br>RDCO Parks 2020<br>CWPP FTU:<br>WUI19<br><br>Adjacent to<br><b>Completed:</b><br>RDCO SWPI405<br>(Map Label C20) |



| FTU ID<br>&<br>WTA ID | Priority<br>Level | Total<br>Area<br>(ha) | Treatment Unit<br>Type  | Local Fuel Threat (ha) |      |     | Overlapping Values /<br>Treatment Constraints                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Treatment Rationale                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Comments                                     | Responsibility<br>Area                 | FTU Overlaps and<br>Adjacency                                                                                                                                                                                                                                                 |
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|                       |                   |                       |                         | Extreme<br>/ High      | Mod  | Low |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                              |                                        |                                                                                                                                                                                                                                                                               |
| FTU_W2<br>LH_W5       | 3                 | 20.6                  | Community<br>resilience |                        | 20.6 |     | <ul style="list-style-type: none"> <li>•Critical Habitat: American Badger Jeffersonii subspecies, Great Basin Gophersnake, and Western Rattlesnake</li> <li>•Guide Outfitters: K9s Cougar Canyon Outfitters Inc</li> <li>•Recreation: Evelyn</li> <li>•Slope Stability: Stable and Potentially unstable</li> <li>•Endangered Occurrences: American Badger, Flammulated Owl</li> <li>•Traplines: TR00320T005</li> <li>•Ungulate Winter Range Conditional Harvest Approved: u-8-001</li> </ul>                                                 | The FTU is located adjacent to several private properties and connects to a completed WRR treatment unit. It overlaps the White Rock Lake wildfire perimeter however, fire intensity was low and survival was >90%. The unit is represented by the C-7 fuel type. The stand has a patchy conifer understory, but a fuel strata gap that is <3 m, with surface fuels <10 tph. This has resulted in a <b>Moderate Threat Rating</b> ; however, as a significant portion of the landscape experience a high severity fire, the unit has a <b>Low priority</b> . Treatment would include pruning and understory thinning, as well as falling of dead standing stems. The objective for treatment is to reduce risk adjacent to private properties within an area of the White Rock Lake fire perimeter that had high survival. | <b>Historical Fire Occurrence:</b><br>K61884 | Crown                                  | <b>Proposed in other Plans:</b> <ul style="list-style-type: none"> <li>• RDCO Parks 2020 CWPP FTU: WUI2</li> </ul> <b>Adjacent to Completed:</b><br>Crown Provincial WRKA0056 (Map Label C15)<br><b>Adjacent to Planned:</b><br>Crown Provincial CLWRR-EVELY-1 (Map Label P3) |
| FTU_W20<br>LH_W30     | 2                 | 6.4                   | Community<br>resilience |                        | 6.4  |     | <ul style="list-style-type: none"> <li>•Community Watersheds: Trepanier Community Watershed</li> <li>•Critical Habitat: Great Basin Gophersnake</li> <li>•Guide Outfitters: K9s Cougar Canyon Outfitters Inc</li> <li>•Managed License: K1 P A Schedule B</li> <li>•Old Growth Priority Deferral Area</li> <li>•Range Tenure: RAN077178</li> <li>•Slope Stability: Stable</li> <li>•Terrain Erosion: Low, Moderate, and High</li> <li>•Traplines: TR808T038</li> <li>•Ungulate Winter Range Conditional Harvest Approved: u-8-001</li> </ul> | This FTU is located west of West Kelowna and north of Peachland. It is adjacent to several private properties and Highway 97C. The unit overlaps the K1P Community Forest. Any treatment unit will need to be coordinated with the Westbank First Nation Community Forest. The fuel type is C-7. It has a moderately dense over and understory with a fuel strata gap that is <3 m. Surface fuels range from 12-18 tph. This has resulted in a <b>Moderate Threat Rating</b> and a <b>Moderate priority</b> . A partial harvest is not feasible in this unit. Treatment should consider understory thinning, pruning and surface fuel clean-up. The objective for treatment is to increase the defensible space around private properties.                                                                                 | Not within a Fire Protection Area.           | Westbank First Nation Community Forest | N/A                                                                                                                                                                                                                                                                           |
| FTU_W21<br>LH_W30     | 2                 | 7.1                   | Community<br>resilience |                        | 7.1  |     | <ul style="list-style-type: none"> <li>•Community Watersheds: Trepanier Community Watershed</li> <li>•Critical Habitat: Great Basin Gophersnake</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                   | This FTU is located west of West Kelowna and north of Peachland. It is adjacent to several private properties and Highway 97C. The fuel type is C-3. It has a moderately dense over and understory with a fuel strata gap that is <3 m. Surface fuels range from                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Not within a Fire Protection Area.           | Crown                                  | N/A                                                                                                                                                                                                                                                                           |

| FTU ID<br>&<br>WTA ID | Priority<br>Level | Total<br>Area<br>(ha) | Treatment Unit<br>Type                           | Local Fuel Threat (ha) |      |     | Overlapping Values /<br>Treatment Constraints                                                                                                                                                                                                                                                                                                                                                                                                                  | Treatment Rationale                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Comments                                                                              | Responsibility<br>Area                 | FTU Overlaps and<br>Adjacency                      |
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|                       |                   |                       |                                                  | Extreme<br>/ High      | Mod  | Low |                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                       |                                        |                                                    |
|                       |                   |                       |                                                  |                        |      |     | <ul style="list-style-type: none"> <li>•Guide Outfitters: K9s Cougar Canyon Outfitters Inc</li> <li>•Slope Stability: Stable</li> <li>•Terrain Erosion: Low and High</li> <li>•Traplines: TR808T038</li> <li>•Ungulate Winter Range Conditional Harvest Approved: u-8-001</li> </ul>                                                                                                                                                                           | 12-18 tph. This has resulted in a <b>Moderate Threat Rating</b> and a <b>Moderate priority</b> . A partial harvest is not feasible in this unit. Treatment should consider understory thinning, pruning and surface fuel clean-up. The objective for treatment is to increase the defensible space around private properties.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Historical Fire Occurrence:</b> 862 1931                                           |                                        |                                                    |
| FTU_W22<br>LH_W28     | 3                 | 12.4                  | Community resilience                             |                        | 12.4 |     | <ul style="list-style-type: none"> <li>•Community Watersheds: Trepanier Community Watershed</li> <li>•Critical Habitat: Great Basin Gophersnake</li> <li>•Guide Outfitters: K9s Cougar Canyon Outfitters Inc</li> <li>•Slope Stability: Stable</li> <li>•Terrain Erosion: Very Low, Moderate and High</li> <li>•Traplines: TR808T038</li> <li>•Ungulate Winter Range Conditional Harvest Approved: u-8-001</li> </ul>                                          | This FTU is located west of West Kelowna and north of Peachland. It is adjacent to several private properties and Highway 97C. The fuel type is C-7. It has a moderately dense over and understory with a fuel strata gap that is <3 m. Surface fuels range from 10-23 tph. This has resulted in a <b>Moderate Threat Rating</b> and a <b>Low priority</b> due to the recently completed treatment upslope of the unit that provides the same response opportunities (Results opening ID 1799913 and Map Label PR-MA (2025)). A partial harvest is not feasible in this unit. Treatment should consider understory thinning, pruning and surface fuel clean-up. The objective for treatment is to increase the defensible space around private properties.                                                                                        | Not within a Fire Protection Area.                                                    | Crown                                  | N/A                                                |
| FTU_W23<br>LH_W29     | 2                 | 10.3                  | Community resilience;<br>Critical Infrastructure |                        | 10.3 |     | <ul style="list-style-type: none"> <li>•Community Watersheds: Trepanier Community Watershed</li> <li>•Critical Habitat: Great Basin Gophersnake</li> <li>•Guide Outfitters: K9s Cougar Canyon Outfitters Inc</li> <li>•Managed License: K1 P A Schedule B</li> <li>•Slope Stability: Stable</li> <li>•Terrain Erosion: Very Low, Low, and High</li> <li>•Traplines: TR808T038</li> <li>•Ungulate Winter Range Conditional Harvest Approved: u-8-001</li> </ul> | This FTU is located west of West Kelowna and north of Peachland. It is adjacent to several private properties and overlaps the K1P Community Forest. Any treatment unit will need to be coordinated with the Westbank First Nation Community Forest. There is also overlap with several water infrastructure features. A portion of the unit has previously been partial cut. The unit is best represented by the C-7 fuel type. The stand has a moderately dense over and understory with a fuel strata gap <3 m. Surface fuels range from 15-22 tph. This has resulted in a <b>Moderate Threat Rating</b> and a <b>Moderate priority</b> . The mechanism for treatment should be planned in conjunction with the Westbank First Nation Community Forest. The objective for treatment is to increase defensible space around private properties. | Not within a Fire Protection Area.<br><br><b>Historical Fire Occurrence:</b> 862 1931 | Westbank First Nation Community Forest | <b>Completed:</b><br>RDCO WFN-2010 (Map Label C45) |
| FTU_W24               | 3                 | 1.8                   | Critical Infrastructure;<br>Greenspace           |                        | 1.8  |     | <ul style="list-style-type: none"> <li>•Critical Habitat: American Badger jeffersonii subspecies, Great Basin Gophersnake and Western</li> </ul>                                                                                                                                                                                                                                                                                                               | The FTU encompasses the entirety of Killiney Community Hall Regional Park. The Extended Zone of the Critical Infrastructure Ignition Zone includes stands characterized by sparse Douglas Fir and Ponderosa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Killiney Community Hall Community Park                                                | RDCO Parks: Community                  | <b>Proposed in other Plans:</b>                    |



| FTU ID<br>&<br>WTA ID             | Priority<br>Level | Total<br>Area<br>(ha) | Treatment Unit<br>Type                    | Local Fuel Threat (ha) |      |     | Overlapping Values /<br>Treatment Constraints                                                                                                                                                                                                                                                                        | Treatment Rationale                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Comments                                                                                                                                                                 | Responsibility<br>Area | FTU Overlaps and<br>Adjacency                                                                  |
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|                                   |                   |                       |                                           | Extreme<br>/ High      | Mod  | Low |                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                          |                        |                                                                                                |
| LH_W6<br>(proximate<br>plot data) |                   |                       |                                           |                        |      |     | Rattlesnake<br>•Guide Outfitters: K9s<br>Cougar Canyon Outfitters<br>Inc<br>•Traplines: TR0811T039<br>•Endangered occurrence:<br>American Badger                                                                                                                                                                     | Pine with pine grass and needle cast surface fuels.<br>Resulting in a <b>Moderate Threat Rating</b> . This area has<br>been given a <b>Low Priority</b> for pursuit of <b>CSGS<br/>Assessment and/or CI Assessment</b> followed by<br>implementation of mitigation activities.                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Historical Fire<br/>Occurrence:</b><br>K61884 2021                                                                                                                    |                        | • RDCO Parks<br>2020 CWPP FTU:<br>KCH1<br><b>Completed:</b><br>RDCO KCH2006<br>(Map Label C50) |
| FTU_W25                           | 3                 | 7.0                   | Greenspace                                |                        | 7.0  |     | •Guide Outfitters: K9s<br>Cougar Canyon Outfitters<br>Inc<br>•Traplines: TR0811T037<br><br>•Ungulate Winter Range<br>Conditional Harvest<br>Approved: u-8-001                                                                                                                                                        | The FTU encompasses the entirety of Raymer Bay<br>Regional Park. The fuel type is C-7. This has resulted<br>in a Moderate Threat Rating and a Low priority. The<br>objective of treatment would be to reduce hazard<br>around private land should a fire start within the park.<br>Treatment would be a low impact thin, prune and<br>surface fuel clean-up. Consider pursuit of <b>CSGS<br/>assessment</b> followed by implementation of mitigation<br>activities.                                                                                                                                                                                                                                                             | Raymer Bay<br>Regional Park<br><br><b>Historical Fire<br/>Occurrence:</b><br>K52767 2023                                                                                 | RDCO Parks             | <b>Proposed in other<br/>Plans:</b><br><br>• RDCO Parks<br>2020 CWPP FTU:<br>RBA1              |
| FTU_W26                           | 3                 | 2.0                   | Greenspace;<br>Prescribed fire            |                        | 2.0  |     | •Critical Habitat: Great<br>Basin Gophersnake<br>•Guide Outfitters: K9s<br>Cougar Canyon Outfitters<br>Inc<br>•Traplines: TR0808T038<br>•Ungulate Winter Range<br>Conditional Harvest<br>Approved: u-8-001                                                                                                           | The FTU encompasses the entirety of Star Regional<br>Park. The FTU falls within the Trepanier Creek (2012)<br>fire scar. Treatment would look to reduce surface fuel<br>debris remaining from fire and/or dangerous tree<br>removal. Could be a candidate for a larger prescribed<br>fire included with adjacent crown land. due to lack of<br>vertical fuel continuity FTU is <b>Moderate threat</b> and<br><b>Low Priority</b> . Consider pursuing <b>CSGS Assessment</b><br>followed by implementation of mitigation activities.                                                                                                                                                                                             | Star Regional<br>Park<br><br><b>Historical Fire<br/>Occurrence:</b><br>K50869 2012                                                                                       | RDCO Parks             | <b>Proposed in other<br/>Plans:</b><br><br>• RDCO Parks<br>2020 CWPP FTU:<br>SCP1              |
| FTU_W27<br>LH_W16                 | 2                 | 29.0                  | Community<br>Resilience                   |                        | 29.0 |     | •Critical Habitat: Great<br>Basin Gophersnake, Gypsy<br>Cuckoo Bumble Bee<br>•Guide Outfitters: K9s<br>Cougar Canyon Outfitters<br>Inc<br>•Endangered Occurrences:<br>Western Screech-Owl,<br>macfarlanei subspecies<br>•Traplines: TR0811T037<br>•Ungulate Winter Range<br>Conditional Harvest<br>Approved: u-8-001 | The FTU is adjacent to several private properties and<br>is located within Glen Canyon Regional Park; this is a<br>high use park with trails throughout. The fuel type is C-<br>7. The overstory is healthy and the understory is<br>patchy. The fuel strata gap is <3 m. Several adjacent<br>properties appear to be thinned and pruned. This has<br>resulted in a <b>Moderate Threat Rating</b> and a<br><b>Moderate priority</b> . Treatment could include a partial<br>harvest, but would also be effective as an understory<br>thin, prune and surface fuel clean-up. Treatment<br>objective is to increase defensible space around<br>private properties and increase chances of tree<br>survival in the event of a fire. | Glen Canyon<br>Regional Park<br><br>During<br>Prescription<br>development the<br>FTU will need to<br>be refined to<br>remove steep<br>slopes and areas<br>of low threat. | RDCO Parks             | <b>Proposed in other<br/>Plans:</b><br><br>• RDCO Parks<br>2020 CWPP FTU:<br>GCG2              |
| FTU_W3<br>LH_W7                   | 2                 | 13.0                  | Community<br>resilience;<br>Egress safety |                        | 13.0 |     | •Critical Habitat: Great<br>Basin Gophersnake,<br>Western Rattlesnake<br>•Slope Stability: Stable,<br>Potentially unstable, and                                                                                                                                                                                      | The FTU is located along Westside Road N within<br>Fintry Provincial Park. Treatment would require<br>coordination with BC Parks. FTU surrounds several<br>private properties on Shalal Rd. A pressure release<br>valve is also located within the FTU. The unit is best                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Historical Fire<br/>Occurrence:</b><br>K40427 1998                                                                                                                    | Crown (BC Parks)       | N/A                                                                                            |

| FTU ID<br>&<br>WTA ID | Priority<br>Level | Total<br>Area<br>(ha) | Treatment Unit<br>Type                                 | Local Fuel Threat (ha) |      |     | Overlapping Values /<br>Treatment Constraints                                                                                                                                                                                                                                                                                                                                          | Treatment Rationale                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Comments                                          | Responsibility<br>Area | FTU Overlaps and<br>Adjacency                                                                                                            |
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|                       |                   |                       |                                                        | Extreme<br>/ High      | Mod  | Low |                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                   |                        |                                                                                                                                          |
|                       |                   |                       |                                                        |                        |      |     | Unstable<br>•Endangered Occurrences:<br>Western Screech-Owl, and<br>Black cottonwood/common<br>snowberry - roses<br>•Traplines:TR0811T039                                                                                                                                                                                                                                              | represented by the C-7 fuel type. The stand has a relatively low sph in the under and overstory, but a fuel strata gap of <3 m. Surface fuels vary from 10-20 tph. This has resulted in a <b>Moderate Threat Rating</b> and a <b>Moderate priority</b> . Treatment would be easy to complete, being surface fuel cleanup and understory thinning; minor pruning would be required as well. The objective of treatment would be to provide defensible space around the private properties and increase safety along Westside Road N.                                                                                                                                                                                                                      |                                                   |                        |                                                                                                                                          |
| FTU_W4<br>LH_W8       | 1                 | 50.1                  | Community<br>resilience;<br>Egress safety              |                        | 50.1 |     | •Critical Habitat: Great<br>Basin Gophersnake and<br>Western Rattlesnake<br>•Guide Outfitters: K9s<br>Cougar Canyon Outfitters<br>Inc<br>•Endangered Occurrences:<br>Black cottonwood/common<br>snowberry - roses<br>•Traplines: TR811T039                                                                                                                                             | The FTU is in Fintry Provincial Park. Treatment would require coordination with BC Parks. FTU runs adjacent to numerous private properties, along the only access route out of the community (Fintry Delta Rd), and around the Fintry Fire Station. This has resulted in a <b>Moderate Threat Rating</b> and a <b>High priority</b> . Due to slopes, a partial cut is unlikely. Treatment is likely to be completed through understory thinning, pruning and surface fuel clean-up. The objective for treatment is to provide defensible space around the private properties, and increase egress safety along Fintry Delta Rd.                                                                                                                          | <b>Historical Fire Occurrence:</b><br>K40427 1998 | Crown (BC Parks)       | N/A                                                                                                                                      |
| FTU_W5<br>LH_W10      | 2                 | 23.1                  | Community<br>resilience;<br>Egress safety              |                        | 23.1 |     | •Critical Habitat: Great<br>Basin Gophersnake and<br>Western Rattlesnake<br>•Guide Outfitters: K9s<br>Cougar Canyon Outfitters<br>Inc<br>•Slope Stability: Stable and<br>Potentially unstable<br>•Terrain Erosion: Moderate<br>and High<br>•Endangered Occurrences:<br>Flammulated Owl<br>•Traplines: TR0811T039<br>•Ungulate Winter Range<br>Conditional Harvest<br>Approved: u-8-001 | The FTU is in Fintry along Westside Road N, adjacent to several private properties, and partially overlapping the Fintry Protected Area. If this unit moves forward, collaboration with BC Parks will be required. The fuel type is C-7. The stand is conifer dominated with a moderate level of SPH in the overstory, the understory is patchy. The fuel strata gap varies from <3 m to 5 m. Surface fuels ranges from 8-15 tph. This has resulted in a <b>Moderate Threat Rating</b> and a <b>Moderate priority</b> . Treatment would likely be understory thinning, pruning and surface fuel clean-up. The objective of treatment is to extend the already treated area down to Westside Road N for increased egress safety and community resilience. |                                                   | Crown                  | Adjacent to<br><b>Completed:</b><br>• Crown Provincial<br>WRKA0092 (Map<br>Label C16)<br>• Crown Provincial<br>WRKA010 (Map<br>Label C6) |
| FTU_W6<br>LH_W6       | 2                 | 61.8                  | Community<br>resilience;<br>Critical<br>infrastructure | 61.8                   |      |     | •Community Watersheds:<br>Hope Community<br>Watershed, Norris<br>Community Watershed<br>•Critical Habitat: American<br>Badger jeffersonii<br>subspecies, Great Basin<br>Gophersnake, and Western                                                                                                                                                                                       | The FTU is located in Killiney Beach, immediately adjacent to several private properties. The proposed unit is located within the White Rock Lake fire perimeter, in an area with low mortality. East of the proposed unit is also two fire stations and multiple water reservoirs. The unit is best represented by the C-7 fuel type, located between the private properties and the high severity fire area. There is approximately                                                                                                                                                                                                                                                                                                                    | <b>Historical Fire Occurrence:</b><br>K61884 2021 | Crown                  | <b>Proposed in other Plans:</b><br>• RDCO Parks<br>2020 CWPP FTU:<br>WUI51                                                               |



| FTU ID<br>&<br>WTA ID | Priority<br>Level | Total<br>Area<br>(ha) | Treatment Unit<br>Type                                               | Local Fuel Threat (ha) |      |     | Overlapping Values /<br>Treatment Constraints                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Treatment Rationale                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Comments                                                                                                                                                                                                                                                                                                                                                                                                                                       | Responsibility<br>Area | FTU Overlaps and<br>Adjacency                                                                                                                                                         |
|-----------------------|-------------------|-----------------------|----------------------------------------------------------------------|------------------------|------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       |                   |                       |                                                                      | Extreme<br>/ High      | Mod  | Low |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |                                                                                                                                                                                       |
|                       |                   |                       |                                                                      |                        |      |     | <ul style="list-style-type: none"> <li>Rattlesnake</li> <li>•Guide Outfitters: K9s Cougar Canyon Outfitters Inc</li> <li>•Slope Stability: Stable, Potentially Unstable and Unstable</li> <li>•Endangered Occurrences: American Badger</li> <li>•Traplines: TR0811T039</li> <li>•Ungulate Winter Range Conditional Harvest Approved: u-8-001</li> </ul>                                                                                                                                                                                                | 80% survival post-fire, with surface fuel recruitment expected from the dead standing stems. Surface fuels range from 10-20 tph. This has resulted in a <b>Moderate Threat Rating</b> and a <b>Moderate priority</b> . Treatment could incorporate understory thinning, pruning, surface fuel clean-up and removal of dead standing stems. The objective for treatment is to increase defensible space surrounding the private properties should a grass fire approach from the west.                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |                                                                                                                                                                                       |
| FTU_W7<br>LH_W14      | 2                 | 59.9                  | Community resilience;<br>Critical infrastructure;<br>Prescribed burn |                        | 59.9 |     | <ul style="list-style-type: none"> <li>•Community Watersheds: Rose Valley Community Watershed</li> <li>•Critical Habitat: Great Basin Gophersnake</li> <li>•Guide Outfitters: K9s Cougar Canyon Outfitters Inc</li> <li>•Managed License: K1 P A Schedule B</li> <li>•Slope Stability: Stable and Potentially unstable</li> <li>•Terrain Erosion: Moderate and High</li> <li>•Endangered Occurrences: Hard-stemmed bulrush deep marsh</li> <li>•Traplines: TR0811T037</li> <li>•Ungulate Winter Range Conditional Harvest Approved: u-8-001</li> </ul> | <p>The FTU is located within Rose Valley Regional Park. The unit is adjacent to numerous private properties, West Kelowna Fire Hall #33, Rose Valley Elementary School and several water infrastructure features. The unit is located within a low severity portion of the McDougall Creek wildfire (2023). The fuel type is C-7. Mortality from the fire is approximately 20%, increasing to the west. Surface fuels range from 12-18 tph. This has resulted in a <b>Moderate Threat Rating</b> and a <b>Moderate priority</b>. Treatment would include understory thinning, pruning, surface fuel clean-up and removal of standing dead stems. A partial harvest could be considered as well. The objective of treatment is to increase defensible space adjacent to the private properties in order to protect from a grass fire from the west.</p> | <p>Rose Valley Regional Park</p> <p><b>Historical Fire Occurrence:</b><br/>K52767 2023</p> <p>During Prescription development the FTU will need to be refined to remove riparian areas and areas of low surface fuel loading that do not require treatment.</p> <p>Some components may be suitable for Rx Burn. It is expected that during FMP and Burn Plan development the unit may expand or be refined to derive logical burn unit(s).</p> | RDCO Parks             | <p><b>Proposed in other Plans:</b></p> <ul style="list-style-type: none"> <li>• RDCO Parks 2020 CWPP FTU: RVA1</li> </ul> <p><b>Completed:</b></p> <p>RDCO RV2011 (Map Label C50)</p> |
| FTU_W8                | 2                 | 48.0                  | Community resilience;<br>Critical                                    |                        | 48.0 |     | <ul style="list-style-type: none"> <li>•Community Watersheds: Rose Valley Community Watershed</li> <li>•Guide Outfitters: K9s</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                               | The FTU is located within Rose Valley Regional Park. The unit is adjacent to numerous private properties and several water infrastructure features. The unit is located within a low severity portion of the McDougall                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Rose Valley Regional Park                                                                                                                                                                                                                                                                                                                                                                                                                      | RDCO Parks             | <b>Proposed in other Plans:</b>                                                                                                                                                       |

| FTU ID<br>&<br>WTA ID | Priority<br>Level | Total<br>Area<br>(ha) | Treatment Unit<br>Type                                               | Local Fuel Threat (ha) |      |     | Overlapping Values /<br>Treatment Constraints                                                                                                                                                                                                                                                                                                 | Treatment Rationale                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Comments                                                                                                                                                                                                                                                                                                                                                  | Responsibility<br>Area | FTU Overlaps and<br>Adjacency                                                                                                                                |
|-----------------------|-------------------|-----------------------|----------------------------------------------------------------------|------------------------|------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       |                   |                       |                                                                      | Extreme<br>/ High      | Mod  | Low |                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                           |                        |                                                                                                                                                              |
| LH_W13;<br>LH_W14     |                   |                       | infrastructure;<br>Prescribed burn                                   |                        |      |     | Cougar Canyon Outfitters Inc<br>•Slope Stability: Stable and Potentially Unstable<br>•Terrain Erosion: Moderate and High<br>•Endangered Occurrences: Rocky Mountain ridged Mussel and black cottonwood/Douglas fir/Douglas maple - common snowberry<br>•Traplines: TR0811T037<br>•Ungulate Winter Range Conditional Harvest Approved: u-8-001 | Creek wildfire (2023). The fuel type is C-7. Mortality from the fire is approximately 30%. Surface fuels range from 12-18 tph. This has resulted in a <b>Moderate Threat Rating</b> and a <b>Moderate priority</b> . Treatment would include understory thinning, pruning, surface fuel clean-up and removal of standing dead stems. A partial harvest could be considered as well. The objective of treatment is to increase defensible space adjacent to the private properties in order to protect from a grass fire from the north/west. A portion of the regional park (to the east of the proposed FTU) is undergoing wildfire restoration work.                                                                                                            | <b>Historical Fire Occurrence:</b><br>K52767 2023 –<br><br>During Prescription development the FTU will need to be refined to remove steep slopes and areas of low threat.<br><br>Some components may be suitable for Rx Burn. It is expected that during FMP and Burn Plan development the unit may expand or be refined to derive logical burn unit(s). |                        | • RDCO Parks 2020 CWPP FTU: RVA1<br><br><b>Completed:</b><br>RDCO RV2015 (Map Label C40)                                                                     |
| FTU_W9<br>LH_W17      | 2                 | 28.2                  | Community resilience;<br>Critical infrastructure;<br>Prescribed burn | 16.5                   | 11.7 |     | •Critical Habitat: Great Basin Gophersnake and Gypsy Cuckoo Bumble Bee<br>•Guide Outfitters: K9s Cougar Canyon Outfitters Inc<br>•Traplines: TR0811T037<br>•Ungulate Winter Range Conditional Harvest Approved: u-8-001                                                                                                                       | The FTU is located within Kalamo Regional Park in West Kelowna. It is adjacent to numerous private properties and several water infrastructure features. The fuel type is C-7. The overstory is moderately dense ponderosa pine with a patchy understory. Surface fuels are generally <18 tph, but there are small pockets with up to 30 tph. The ground has a near continuous cover of ponderosa needles in the C-7 area. This has resulted in a <b>Moderate Threat Rating</b> and a <b>Moderate priority</b> . The objective of treatment is to increase defensible space adjacent to the private properties within a high use park. Treatment could include understory thinning, pruning, and surface fuel cleanup. Prescribed fire may be considered as well. | Kalamo Regional Park<br><br>Some components may be suitable for Rx Burn. It is expected that during FMP and Burn Plan development the unit may expand or be refined to derive logical burn unit(s).                                                                                                                                                       | RDCO Parks             | <b>Proposed in other Plans:</b><br>• RDCO Parks 2020 CWPP FTU: KAL2<br><br><b>Completed:</b><br>RDCO Kal2006 (Map Label C36)<br>RDCO Kal2010 (Map Label C37) |

The following table details the proposed FTUs for Electoral Area West and includes information on their priority ranking, general size, associated wildfire threat, overlapping values, and rationale for treatment. Maps outlining the location of the FTUs can be found in 7.0Appendix D.

Table 28. Proposed fuel treatment unit summary table for the RDCO CWRP Electoral Area East.

| FTU ID<br>&<br>WTA ID | Priority<br>Level | Total<br>Area<br>(ha) | Treatment Unit<br>Type                                 | Local Fuel Threat (ha) |      |     | Overlapping Values / Treatment<br>Constraints                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Treatment Rationale                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Comments                                                                    | Responsibility<br>Area | FTU Overlaps and<br>Adjacency                                                                                                                                                                                                                                  |
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|                       |                   |                       |                                                        | Extreme<br>/ High      | Mod  | Low |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                             |                        |                                                                                                                                                                                                                                                                |
| FTU_E1<br><br>LH_E1   | 3                 | 71.3                  | Community<br>resilience;<br>Critical<br>infrastructure |                        | 71.3 |     | <ul style="list-style-type: none"> <li>•Water licenses</li> <li>•Critical Habitat: American Badger Jeffersonii Subspecies and Great Basin Gophersnake</li> <li>•Guide Outfitters: Okanagan Outfitters Ltd</li> <li>•Endangered occurrences: American Badger, Painted Turtle - Intermountain - Rocky Mountain Population, Western Screech-Owl, black cottonwood - Douglas fir / Douglas maple - common snowberry</li> <li>•Traplines: TR0810T035</li> <li>•Ungulate Winter Range Conditional Harvest Approved: u-8-001</li> </ul> | The FTU is located within the Mission Creek Regional Park, surrounded by numerous private properties. The fuel type is C-7, with a significant amount of Py needles covering the ground. The stand is dominated by Py, with low mortality. Surface fuels are generally <15 tph. The unit is surrounded by private land, and Mission Creek. This has resulted in a <b>Moderate Threat Rating</b> and a <b>Low priority</b> . Treatment would be completed by hand and small machine, consisting of pruning, thinning and surface fuel cleanup. The objective of treatment would be to increase defensible space around the private properties and protect the regional park. | Mission Creek Regional Park                                                 | RDCO Parks             | <b>Proposed in other Plans:</b> <ul style="list-style-type: none"> <li>• RDCO Parks 2020 CWPP FTU: MCR1</li> </ul> <b>Completed:</b> <ul style="list-style-type: none"> <li>RDCO MC2010 (Map Label C42)</li> </ul>                                             |
| FTU_E10<br><br>CP_E17 | 1                 | 4.5                   | Community<br>Resilience                                | 4.5                    |      |     | <ul style="list-style-type: none"> <li>• Mission Community Watershed</li> <li>•Critical Habitat: American Badger Jeffersonii Subspecies</li> <li>•Guide Outfitters: K9s Cougar Canyon Outfitters Inc, Okanagan Outfitters Ltd.</li> <li>• Ungulate Winter Range Conditional Harvest Approved: u-8-001</li> <li>•Soil Erosion: Low, Moderate</li> <li>•Endangered occurrences: American Badger</li> </ul>                                                                                                                         | The FTU is located within Three Forks Community Park, adjacent to private properties along Three Forks Road. The unit is best represented C-7 fuel type characterized by an open Fd and Py stand with high overstory and understory density. The area has a <b>High Threat Rating</b> and a <b>High Priority</b> . Treatment could focus on removing standing dead, understory thinning, pruning and surface fuel clean up to create a landscape fuel break and protect the community to the south.                                                                                                                                                                         | Three Forks Community Park                                                  | RDCO Parks: Community  | <b>Proposed in other Plans:</b> <ul style="list-style-type: none"> <li>• RDCO Parks 2020 CWPP FTU: TFC1</li> <li>• Joe Rich 2021 CWRP: FTU_4, FTU_9</li> </ul> <b>Completed:</b> <ul style="list-style-type: none"> <li>RDCO TF2007 (Map Label C46)</li> </ul> |
| FTU_E11<br><br>CP_E15 | 2                 | 79.6                  | Community<br>resilience;<br>Landscape fuel<br>break    |                        | 79.6 |     | <ul style="list-style-type: none"> <li>• Mission Community Watershed</li> <li>•Critical Habitat: American Badger Jeffersonii Subspecies and Great Basin Gophersnake</li> <li>•Guide Outfitters: K9s Cougar Canyon Outfitters Inc</li> <li>•Managed Licence: W0343 B Schedule B</li> </ul>                                                                                                                                                                                                                                        | The FTU is located surrounding private properties along Goudie Road, as well as the Joe Rich Fire Department. The unit is best represented by a combination of the C-7 fuel type characterized by an open Fd and Py and M1-2 stand with PI, At, and Ep. The area has a <b>Moderate Threat Rating</b>                                                                                                                                                                                                                                                                                                                                                                        | The shape is preliminary and can be modified to tie in with adjacent roads. | Crown                  | <b>Proposed in other Plans:</b> <ul style="list-style-type: none"> <li>• Joe Rich 2021 CWRP: FTU_8 and FTU_5</li> </ul>                                                                                                                                        |



|                              |   |      |                                               |      |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                             |                  |                                                                                                                                                          |
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| FTU_E12<br>CP_E20,<br>CP_E21 |   |      |                                               |      |      | <ul style="list-style-type: none"> <li>•Old Growth Priority Deferral Area</li> <li>•Range Tenure: Ran077416</li> <li>•Slope Stability: Stable and Potentially unstable</li> <li>•Soil Erosion: Low, Moderate, and High</li> <li>•Endangered occurrences: American Badger</li> <li>•Traplines: TR0810T036</li> <li>•Ungulate Winter Range</li> <li>Conditional Harvest Approved: u-8-001, u-8-006</li> </ul>                                                                                                                                                                                          | and a <b>Moderate Priority</b> due to the density of residences. Treatment could focus on removing standing dead, understory thinning, pruning and surface fuel clean up to create a landscape fuel break around the community.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                             |                  |                                                                                                                                                          |
|                              | 3 | 39.7 | Community resilience                          | 20   | 19.7 | <ul style="list-style-type: none"> <li>•Recreation: McCulloch Cross Country Trails and Hydraulic Lake</li> <li>•Hydraulic Community Watershed</li> <li>•Critical Habitat: American Badger Jeffersonii Subspecies</li> <li>•Guide Outfitters: Okanagan Outfitters Ltd and John Sievers</li> <li>•Old Growth Priority Deferral Area</li> <li>•Slope Stability: Stable</li> <li>•Soil Erosion: Low and Moderate</li> <li>•Endangered occurrences: American Badger</li> <li>•Traplines: TR0810T035, TR0812T034</li> <li>•Ungulate Winter Range</li> <li>Conditional Harvest Approved: u-8-006</li> </ul> | The FTU is located around the Kelowna Nordic Club and the cabins and recreation site at Hydraulic Lake. The treatment area anchors into recent cut blocks and the lake. The treatment area is characterized by areas of lodgepole pine and hybrid white spruce, best represented by the C-3 fuel type, and areas of high density of immature PI best represented by a C-4 fuel type. Fuels in this area therefore represent a range between <b>Moderate</b> and <b>Extreme Threat Rating</b> . Due to the relatively low density of values, the area has been given a <b>Low Priority</b> rating due to <b>low density of values</b> . A partial cut, understory thinning, pruning, and debris management would increase defensible space around the area. | Seasonally populated.<br>Not within a Fire Protection Area. | Municipal, Crown | <b>Proposed in other Plans:</b> <ul style="list-style-type: none"> <li>• RDCO Parks 2020 CWPP FTU: WUI42</li> </ul>                                      |
| FTU_E13<br>CP_E17            | 1 | 72.4 | Community resilience;<br>Landscape fuel break | 72.4 |      | <ul style="list-style-type: none"> <li>•Mission Community Watershed</li> <li>•Critical Habitat: American Badger Jeffersonii Subspecies</li> <li>•Guide Outfitters: K9s Cougar Canyon Outfitters Inc</li> <li>•Range Tenure: Ran077413</li> <li>•Slope Stability: Stable and Potentially unstable</li> <li>•Soil Erosion: Low, Moderate and High</li> <li>•Endangered occurrences: American Badger</li> <li>•Ungulate Winter Range</li> <li>Conditional Harvest Approved: u-8-001</li> </ul>                                                                                                          | The FTU is located surrounding private properties along Three Forks Road. The unit is best represented by C-7 fuel type characterized by an open Fd and Py stand with high overstory and understory density. The area has a <b>High Threat Rating</b> and a <b>High Priority</b> . Treatment could focus on removing standing dead, understory thinning, pruning and surface fuel clean up to create a landscape fuel break and protect the community to the south.                                                                                                                                                                                                                                                                                        | <b>Historical Fire Occurrence:</b> 468205290 1946           | Crown            | <b>Proposed in other Plans:</b> <ul style="list-style-type: none"> <li>• RDCO Parks 2020 CWPP FTU: WUI55</li> <li>• Joe Rich 2021 CWRP: FTU_2</li> </ul> |
| FTU_E14<br>CP_E18            | 2 | 46.8 | Community resilience;<br>Landscape fuel       |      | 46.8 | <ul style="list-style-type: none"> <li>•Mission Community Watershed</li> <li>•Critical Habitat: American Badger Jeffersonii Subspecies</li> <li>•Guide Outfitters: K9s Cougar</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                             | The FTU is located surrounding private properties along Philpott Road. The unit is best represented by C-7 fuel type characterized by an open Fd and Py stand with high overstory and understory                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Historical Fire Occurrence:</b> 55 1921, K51878 2017     | Crown            | <b>Proposed in other Plans:</b> <ul style="list-style-type: none"> <li>• RDCO Parks 2020 CWPP FTU:</li> </ul>                                            |

|                   |   |      |                                               |      |      |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |                                                                                                                                                                                          |
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|                   |   |      | break                                         |      |      |  | <ul style="list-style-type: none"> <li>Canyon Outfitters Inc</li> <li>•Old Growth Priority Deferral Area</li> <li>•Range Tenure: Ran077413</li> <li>•Slope Stability: Stable and Potentially unstable</li> <li>•Soil Erosion: Low and Moderate</li> <li>•Endangered occurrences: American Badger</li> <li>•Ungulate Winter Range Conditional Harvest Approved: u-8-001</li> </ul>                                                                                                                      | density and low crowns. The area has a <b>Moderate Threat Rating</b> and a <b>Moderate Priority</b> . The proposed treatment area anchors into a previously burned area. Treatment could focus on removing standing dead, understory thinning, pruning and surface fuel clean up to create a landscape fuel break around the community.                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                          |       | WUI36 and WUI55<br>• Joe Rich 2021 CWRP: FTU_7                                                                                                                                           |
| FTU_E15<br>CP_E19 | 2 | 57.7 | Community resilience;<br>Landscape fuel break |      | 57.7 |  | <ul style="list-style-type: none"> <li>•Mission Community Watershed</li> <li>•Critical Habitat: American Badger Jeffersonii Subspecies and Great Basin Gophersnake</li> <li>•Guide Outfitters: K9s Cougar Canyon Outfitters Inc</li> <li>•Slope Stability: Stable and Potentially unstable</li> <li>•Soil Erosion: Low and Moderate</li> <li>•Endangered occurrences: American Badger</li> <li>•Traplines: TR0810T036</li> <li>•Ungulate Winter Range Conditional Harvest Approved: u-8-001</li> </ul> | The FTU is located surrounding private properties along Sun Valley Road. The unit is best represented by C-7 fuel type characterized by an open Fd and Py stand with high overstory and understory density. The area has a <b>Moderate Threat Rating</b> and a <b>Moderate Priority</b> . Treatment could focus on removing standing dead, understory thinning, pruning and surface fuel clean up to create a landscape fuel break around the community. The previously treated area should be reviewed for any recent increases in dead-standing trees and fuel loading. | <p>Components treated by Tolko and FESBC in 2019 - no spatial found but there's a sign adjacent to unit.</p> <p>Fuels of concern continue north up slope, but no meaningful anchor features were identified, a 200m buffer off private property was applied, the shape is preliminary and modification may be warranted if features are identified during FMP development.</p> <p><b>Historical Fire Occurrence:</b><br/>K50611 2014</p> | Crown | <p><b>Proposed in other Plans:</b></p> <ul style="list-style-type: none"> <li>• RDCO Parks 2020 CWPP FTU: WUI56 and WUI57</li> <li>• Joe Rich 2021 CWRP: FTU_6, FTU_10, FTU_1</li> </ul> |
| FTU_E16<br>CP_E3  | 3 | 10.0 | Community resilience                          | 10.0 |      |  | <ul style="list-style-type: none"> <li>•Recreation: Island Lake</li> <li>•Vernon Community Watershed</li> <li>•Critical Habitat: American Badger Jeffersonii Subspecies</li> <li>•Guide Outfitters: K9s Cougar Canyon Outfitters Inc</li> <li>•Old Growth Priority Deferral Area</li> </ul>                                                                                                                                                                                                            | The FTU is located around the Island Lake Recreation Area. The treatment area is characterized by stands of lodgepole pine and hybrid white spruce, best represented by the C-3 fuel type. Understory stems are high density, and crowns are very low across diameter classes, resulting in a <b>High Threat Rating</b> , however, the                                                                                                                                                                                                                                    | <p>Seasonally populated.</p> <p>Not within a Fire Protection Area.</p>                                                                                                                                                                                                                                                                                                                                                                   | Crown | N/A                                                                                                                                                                                      |

|                                 |   |      |                      |  |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                             |       |                                                                 |
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|                                 |   |      |                      |  |      | <ul style="list-style-type: none"> <li>•Range Tenure: Ran077313</li> <li>•Range Tenure: Ran077313</li> <li>•Slope Stability: Stable</li> <li>•Soil Erosion: Very Low and Low</li> <li>•Endangered occurrences: American Badger</li> <li>•Traplines: TR0810T040</li> <li>•Ungulate Winter Range Conditional Harvest Approved: u-8-006</li> </ul>                                                                                                                                                       | lack of permanent residences puts this area into a <b>Low Priority</b> . A partial cut, understory thinning, pruning, and debris management would increase defensible space around the area.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                             |       |                                                                 |
| FTU_E17<br><br>CP_E9,<br>CP_E11 | 2 | 6.2  | Community resilience |  | 6.2  | <ul style="list-style-type: none"> <li>•Recreation: Postill Lake and trailhead parking</li> <li>•Kelowna Community Watershed</li> <li>•Critical Habitat: American Badger Jeffersonii Subspecies</li> <li>•Guide Outfitters: K9s Cougar Canyon Outfitters Inc</li> <li>•Old Growth Priority Deferral Area</li> <li>•Range Tenure: Ran077313</li> <li>•Slope Stability: Stable</li> <li>•Soil Erosion: Low</li> <li>•Endangered Occurrences: American Badger</li> <li>•Traplines: TR0810T036</li> </ul> | The FTU is located around the Postill Lake Resort. The treatment area is dominated by mature lodgepole pine with a subalpine fir understory, best represented by the C-3 fuel type. Overstory and understory stems are high density, but crowns are high, resulting in a <b>Moderate Threat Rating</b> , and a <b>Moderate Priority</b> . A partial cut, understory thinning, pruning, and debris management would increase defensible space around the area. The treatment area anchors into an adjacent recent cutblock.                                                                                                                                                                                                                                   |                                                             | Crown | N/A                                                             |
| FTU_E18<br><br>CP_E6;<br>CP_E7  | 2 | 16.5 | Community resilience |  | 16.5 | <ul style="list-style-type: none"> <li>•Recreation: Swalwell Trailhead</li> <li>•Vernon Community Watershed</li> <li>•Critical Habitat: American Badger Jeffersonii Subspecies</li> <li>•K9s Cougar Canyon Outfitters Inc</li> <li>•Range Tenure: Ran077313</li> <li>•Slope Stability: Stable</li> <li>•Soil Erosion: Low</li> <li>•Endangered occurrences: American Badger</li> <li>•Traplines: TR0810T040</li> <li>•Ungulate Winter Range Conditional Harvest Approved: u-8-006</li> </ul>          | The FTU is located around the Beaver Lake Resort. The Resort contains cabins, a store, RV lots and campsites. The treatment area is dominated by hybrid white spruce with minor amounts of lodgepole pine and subalpine fir, best represented by the C-3 fuel type. Understory stems are high density, and crowns are very low across diameter classes. Heavy CWD loading occurs throughout the area. This results in a <b>High Threat Rating</b> , but due to the lower density of values, the area has been given <b>Moderate Priority</b> . A partial cut, understory thinning, pruning, and debris management would increase defensible space around the area. This FTU is adjacent to a previously treated area and is anchored into a recent cutblock. | Seasonally populated.<br>Not within a Fire Protection Area. | Crown | <b>Completed:</b><br>Crown Provincial WR0000970 (Map Label C10) |
| FTU_E19<br><br>CP_E4            | 3 | 8.7  | Community resilience |  | 8.7  | <ul style="list-style-type: none"> <li>•Vernon Community Watershed</li> <li>•Critical Habitat: American Badger Jeffersonii Subspecies</li> <li>•Guide Outfitters: K9s Cougar Canyon Outfitters Inc</li> <li>•Range Tenure: Ran077313</li> <li>•Slope Stability: Stable</li> <li>•Soil Erosion: Very Low and</li> </ul>                                                                                                                                                                                | The FTU is located around the cabins on Crooked Lake. The treatment area is dominated by hybrid white spruce with minor amounts of lodgepole pine and subalpine fir, best represented by the C-3 fuel type. Understory stems are high density, and crowns are very low across diameter classes. There are many dead                                                                                                                                                                                                                                                                                                                                                                                                                                          | Seasonally populated.<br>Not within a Fire Protection Area. | Crown | N/A                                                             |



|                       |   |      |                                             |      |      |  |                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                            |            |                                                                                                                                                                                                           |
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|                       |   |      |                                             |      |      |  | Moderate<br>•Endangered occurrences:<br>American Badger<br>•Traplines: TR0810T040<br>•Ungulate Winter Range<br>Conditional Harvest Approved: u-8-006                                                                                                                                                                                                                                                          | standing PI within this area. This results in a <b>High Threat Rating</b> , but due to low density of values that would directly benefit from treatment is ranked <b>Low Priority</b> . Removal of dead standing trees, understory thinning, pruning, and debris management would increase defensible space around the area. This FTU is anchored into a recent cutblock and the lake.                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                            |            |                                                                                                                                                                                                           |
| FTU_E2<br><br>LH_E3   | 3 | 82.0 | Community<br>resilience:<br>Prescribed burn |      | 82.0 |  | •Critical Habitat: American Badger Jeffersonii Subspecies and Great Basin Gophersnake<br>•Guide Outfitters: Okanagan Outfitters Ltd<br>•Endangered occurrences:<br>American Badger, Spotted Bat, and black cottonwood - Douglas fir / Douglas maple - common snowberry<br>•Traplines: TR0810T035<br>•Ungulate Winter Range<br>Conditional Harvest Approved: u-8-001                                           | The FTU is in Scenic Canyon Regional Park, adjacent to Mission Creek and numerous private properties. The fuel type is C-7. The stand is dominated by Fd, and surface fuels range from 10-15 tph. The slope of this unit is up to 50% and may impact operability. This has resulted in a <b>Moderate Threat Rating</b> and a <b>Low priority</b> . Treatment would need to be completed by hand and would consist of pruning, understory thinning and surface fuel cleanup. The objective of treatment would be to increase defensible space adjacent to the private properties.                                                                                                                              | Scenic Canyon Regional Park<br><br>Some components may be suitable for Rx Burn. It is expected that during FMP and Burn Plan development the unit may expand or be refined to derive logical burn unit(s). | RDCO Parks | <b>Proposed in other Plans:</b><br><br>• RDCO Parks 2020 CWPP FTU: SCA6<br><br><b>Adjacent to:</b><br><br>• City of Kelowna 2022 CWRP FTU: Scenic<br><br><b>Completed:</b><br>RDCO SC2015 (Map Label C41) |
| FTU_E20<br><br>CP_E2  | 2 | 15.3 | Community<br>resilience                     | 15.3 |      |  | •Recreation: Dee Lake Resort<br>•Vernon Community Watershed<br>•Critical Habitat: American Badger Jeffersonii Subspecies<br>•Guide Outfitters: K9s Cougar Canyon Outfitters Inc<br>•Old Growth Priority Deferral Area<br>•Range Tenure: Ran077313<br>•Slope Stability: Stable<br>•Soil Erosion: Very Low and Low<br>•Traplines: TR0810T040<br>•Ungulate Winter Range<br>Conditional Harvest Approved: u-8-006 | The FTU is located around the Dee Lake Resort. The Resort has year-round cabins, a store, RV lots, and docks for lake access. Many structures are surrounded by continuous dense stands of trees The treatment area is predominantly mixed-aged spruce with minor amounts of lodgepole pine and subalpine fir, best represented by the C3 fuel type. Understory stems are high density, and crowns are very low across diameter classes. This results in a <b>High Threat Rating</b> . However, due to the lower density of values, this area has been given a <b>Moderate Priority</b> . A partial cut, understory thinning, pruning, and debris management would increase defensible space around the area. | Seasonally populated.<br><br>Not within a Fire Protection Area.                                                                                                                                            | Crown      | N/A                                                                                                                                                                                                       |
| FTU_E21<br><br>CP_E10 | 3 | 20.3 | Community<br>resilience                     | 20.3 |      |  | •Critical Habitat: American Badger Jeffersonii Subspecies<br>•Guide Outfitters: K9s Cougar Canyon Outfitters Inc<br>•Managed Licence: W1615 A Schedule B<br>•Old Growth Priority Deferral Area                                                                                                                                                                                                                | The FTU is located adjacent to private properties along the Batta FSR. The unit is best represented by the C-7 fuel type characterized by an open Fd and Py stand with patchy ladder fuel continuity, a high proportion of standing dead stems, resulting in a <b>High Threat Rating</b> . However, most adjacent private land is untreated and undeveloped, resulting in a <b>Low Priority</b> .                                                                                                                                                                                                                                                                                                             | Part of the stand has recently been ribboned - unclear for what.                                                                                                                                           | Crown      | N/A                                                                                                                                                                                                       |

|                      |   |     |                                     |     |     |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                 |                       |                                                                     |
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|                      |   |     |                                     |     |     |  | <ul style="list-style-type: none"><li>•Range Tenure: Ran077313</li><li>•Slope Stability: Stable and Potentially unstable</li><li>•Soil Erosion: Low, Moderate, and High</li><li>•Endangered occurrences: American Badger</li><li>•Traplines: TR0810T036</li><li>•Ungulate Winter Range Conditional Harvest Approved: u-8-001, u-8-006</li></ul>                                                                                                                                                                                                | Treatment should only be undertaken if the community implements FireSmart practices on their properties. Steep slopes within the area could limit the use of machinery. Hand treatment including removal of standing dead stems, thinning, pruning and surface fuel cleanup could be implemented in this area.                                                                                                                                                                                                                                                                                                                                                                        |                                                                 |                       |                                                                     |
| FTU_E22<br><br>CP_E5 | 2 | 8.0 | Community resilience                | 8.0 |     |  | <ul style="list-style-type: none"><li>•Recreation: Swalwell Lake</li><li>•Critical Habitat: American Badger Jeffersonii Subspecies</li><li>•Vernon Community Watershed</li><li>•Guide Outfitters: K9s Cougar Canyon Outfitters Inc</li><li>•Old Growth Priority Deferral Area</li><li>•Range Tenure: Ran077313</li><li>•Slope Stability: Stable</li><li>•Soil Erosion: Very Low</li><li>•Endangered occurrences: American Badger</li><li>•Traplines: TR0810T040</li><li>•Ungulate Winter Range Conditional Harvest Approved: u-8-006</li></ul> | The FTU is located around the northern lots of Beaver Lake Resort. The treatment area is dominated by hybrid white spruce with minor amounts of lodgepole pine and subalpine fir, best represented by the C-3 fuel type. Understory stems are high density, and crowns are very low across diameter classes. This results in a <b>High Threat Rating</b> . However, due to the lower density of values, this area has been given a <b>Moderate Priority</b> . This area was partially harvested. Low thinning of residual understory trees, pruning, and debris management would increase defensible space around the area. This FTU is anchored into a recent cutblock and the lake. | Seasonally populated.<br><br>Not within a Fire Protection Area. | Crown                 | N/A                                                                 |
| FTU_E23              | 2 | 3.5 | Greenspace, Critical Infrastructure |     | 3.5 |  | <ul style="list-style-type: none"><li>•Critical Habitat: American Badger Jeffersonii Subspecies, Great Basin Gophersnake, and Western Rattlesnake</li><li>•Endangered occurrences: American Badger, black cottonwood - Douglas-fir / common snowberry - red-osier dogwood</li></ul>                                                                                                                                                                                                                                                            | The FTU encompasses the entirety of Kopje Regional Park. Forested areas within the park are characterized by Douglas Fir and Ponderosa Pine stands with relatively continuous ladder fuels. Resulting in a <b>Moderate Threat Rating</b> . This area has been given a <b>Moderate Priority</b> for pursuit of <b>CSGS assessment followed by implementation of mitigation activities</b> .                                                                                                                                                                                                                                                                                            | Kopje Regional Park                                             | RDCO Parks            | <b>Proposed in other Plans:</b><br>• Lake Country 2023 CWRP: FTU 6  |
| FTU_E24              | 1 | 0.9 | Greenspace, Critical Infrastructure | 0.9 |     |  | <ul style="list-style-type: none"><li>•Mission Community Watershed</li><li>•Critical Habitat: American Badger Jeffersonii Subspecies</li><li>•Guide Outfitters: Okanagan Outfitters Ltd.</li><li>•Endangered occurrences: American Badger</li><li>•Ungulate Winter Range Conditional Harvest Approved: u-8-001</li></ul>                                                                                                                                                                                                                       | The FTU encompasses the entirety of Joe Rich Hall Community Park. The Extended Zone of the Critical Infrastructure Ignition Zone includes stands characterized by Douglas Fir, Cedar, and Ponderosa Pine with relatively scattered horizontal continuity and continuous vertical continuity. Resulting in a <b>High Threat Rating</b> . This area has been given a <b>High Priority</b> for pursuit of <b>CSGS Assessment and/or CI Assessment followed by implementation of mitigation activities</b> .                                                                                                                                                                              | Joe Rich Community Hall Park                                    | RDCO Parks: Community | <b>Proposed in other Plans:</b><br>• RDCO Parks 2020 CWPP FTU: JRC1 |



|                                   |   |       |                                                                                  |  |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                    |                 |                                                                                                                                                                                                                      |
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| FTU_E3<br><i>LH_E5;<br/>LH_E6</i> | 2 | 124.1 | Community<br>resilience;<br>Landscape fuel<br>break;<br>Maintenance<br>Treatment |  | 124.1 | <ul style="list-style-type: none"> <li>•Critical Habitat: American Badger Jeffersonii Subspecies, Great Basin Gophersnake, and Gypsy Cuckoo Bumble Bee</li> <li>•Guide Outfitters: Okanagan Outfitters Ltd</li> <li>•Endangered occurrences: American Badger</li> <li>•Traplines: TR0810T035</li> <li>•Ungulate Winter Range Conditional Harvest Approved: u-8-001</li> </ul>                                                                                            | The FTU is located within Myra Bellevue Provincial Park. Treatment would require coordination with BC Parks. It is adjacent to numerous private properties. The fuel type is C-7. The stand is dominated by conifers, with a low to moderate sph in the understory. The fuel strata gap varies from 1-5 m. This has resulted in a <b>Moderate Threat Rating</b> and a <b>Moderate priority</b> . The overstory has a low enough sph that a partial cut is not required. Treatment should target surface fuel clean up. The objective is to create defensible space adjacent to the private properties the unit borders. The proposed unit anchors into private land and open forest types.                                                         | This is a maintenance treatment.                                                   | Crown, BC Parks | <b>Completed:</b> <ul style="list-style-type: none"> <li>• Crown Provincial CLWRR-SEK-5-8 (Map Label C2)</li> <li>• Crown Provincial CLWRR-SEK-2 (Map Label C4)</li> </ul>                                           |
| FTU_E4<br><i>LH_E5;<br/>LH_E6</i> | 2 | 16.3  | Community<br>resilience;<br>Landscape fuel<br>break                              |  | 16.3  | <ul style="list-style-type: none"> <li>•Critical Habitat: American Badger Jeffersonii Subspecies, Great Basin Gophersnake, Gypsy Cuckoo Bumble Bee, and Lewis's Woodpecker</li> <li>•Guide Outfitters: Okanagan Outfitters Ltd</li> <li>•Endangered occurrences: American Badger and black cottonwood - Douglas fir / Douglas maple - common snowberry</li> <li>•Traplines: TR0810T035</li> <li>•Ungulate Winter Range Conditional Harvest Approved: u-8-001</li> </ul>  | The FTU is located within Myra Bellevue Provincial Park. Treatment would require coordination with BC Parks. It is adjacent to numerous private properties. The unit primarily overlaps a C-7 fuel type. The stand is dominated by conifers, with a low to moderate sph in the understory. The fuel strata gap varies from 1-5 m. This has resulted in a <b>Moderate Threat Rating</b> and a <b>Moderate priority</b> . The overstory has a low enough sph that a partial cut is not required. Treatment should target pruning, understory thinning and surface fuel clean up. The objective is to create defensible space adjacent to the private properties the unit borders. The proposed unit anchors into private land and open forest types. | <b>Historical Fire Occurrence:</b><br>K50628 - 2003                                | Crown, BC Parks | N/A                                                                                                                                                                                                                  |
| FTU_E5<br><i>LH_E7</i>            | 2 | 15.9  | Community<br>resilience                                                          |  | 15.9  | <ul style="list-style-type: none"> <li>•Critical Habitat: American Badger Jeffersonii Subspecies, Great Basin Gophersnake, and Gypsy Cuckoo Bumble Bee</li> <li>•Guide Outfitters: Okanagan Outfitters Ltd</li> <li>•Endangered occurrences: American Badger, Western Screech Owl, and Black cottonwood - Douglas fir/ Douglas maple - common snowberry</li> <li>•Traplines: TR0810T035</li> <li>•Ungulate Winter Range Conditional Harvest Approved: u-8-001</li> </ul> | The FTU is located within Woodhaven Regional Park and adjacent to numerous private properties. The unit primarily overlaps C-7 and C-3 fuel types, with minor areas being mixed conifer/deciduous. The stand has a moderately dense ActCw understory and surface fuels ranging from 15-23 tph. The overstory has small patches of mortality throughout. This has resulted in a <b>Moderate Threat Rating</b> and a <b>Moderate priority</b> . Treatment could focus on removing standing dead, understory thinning, pruning and surface fuel clean up. The objective is to protect private properties from a fire that starts within the park.                                                                                                     | Woodhaven Regional Park<br><br><b>Historical Fire Occurrence:</b><br>K50628 - 2003 | RDCO Parks      | <b>Proposed in other Plans:</b> <ul style="list-style-type: none"> <li>• RDCO Parks 2020 CWPP FTU: WNC1</li> </ul> <b>Completed:</b> <ul style="list-style-type: none"> <li>• RDCO WH2009 (Map Label C43)</li> </ul> |

|                            |   |      |                                                        |     |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                   |            |                                                                                                                                                                                                                                                                                                                                                     |
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| FTU_E6<br>LH_E8            | 3 | 14.7 | Community<br>resilience                                |     | 14.7 | <ul style="list-style-type: none"> <li>•Critical Habitat: American Badger Jeffersonii Subspecies, Gypsy Cuckoo Bumble Bee, and Lewis's Woodpecker</li> <li>•Guide Outfitters: Okanagan Outfitters Ltd</li> <li>•Endangered occurrences: American Badger, Black cottonwood - Douglas fir/Douglas maple - common snowberry</li> <li>•Traplines: TR0810T035</li> <li>•Ungulate Winter Range Conditional Harvest Approved: u-8-001</li> </ul>                                                    | The FTU is located within the Lebanon Creek Greenway Regional Park and adjacent to numerous private properties. The unit is best represented by the C-7 fuel type. The stand is a very open Py stand with low mortality. Surface fuels are <15 tph. This has resulted in a <b>Low Threat Rating</b> and a <b>Low priority</b> . Treatment could incorporate pruning and thinning. However, this is a low priority unit due to low hazard and it being an isolated stand. The objective of treatment would be to increase defensible space for adjacent private properties. Treatment would be easy to complete and easy to access as there are trails throughout. | Lebanon Creek Greenway<br><br><b>Historical Fire Occurrence:</b><br>K50628 - 2003 | RDCO Parks | <b>Proposed in other Plans:</b> <ul style="list-style-type: none"> <li>• RDCO Parks 2020 CWPP FTU: LCG1</li> <li>• City of Kelowna 2022 CWRP FTU: Lebanon</li> </ul>                                                                                                                                                                                |
| FTU_E7<br>CP_E14           | 2 | 27.8 | Community<br>resilience                                |     | 27.8 | <ul style="list-style-type: none"> <li>•Critical Habitat: American Badger Jeffersonii Subspecies</li> <li>•Kelowna Community Watershed</li> <li>•Guide Outfitters: K9s Cougar Canyon Outfitters Inc</li> <li>•Range Tenure: Ran077313</li> <li>•Slope Stability: Stable</li> <li>•Soil Erosion: Low and Moderate</li> <li>•Endangered occurrences: American Badger</li> <li>•Traplines: TR0810T036</li> <li>•Ungulate Winter Range Conditional Harvest Approved: u-8-001, u-8-006</li> </ul> | The FTU is located adjacent to private properties at the end of Sierra Drive. The unit is best represented by the C-7 fuel type characterized by an open Fd and Py stand with moderate crown base height and surface fuels, resulting in a <b>Moderate Threat Rating</b> and <b>Moderate Priority</b> . Treatment including thinning and pruning could be implemented in the untreated stands adjacent to the prior treatment. The previously treated area should be reviewed for any recent increases in dead standing trees and/or surface fuel loading.                                                                                                        |                                                                                   | Crown      | <b>Proposed in other Plans:</b> <ul style="list-style-type: none"> <li>• RDCO Parks 2020 CWRP FTU: WUI53</li> </ul> <b>Completed:</b> <ul style="list-style-type: none"> <li>• Crown Provincial WR0000968 (Map Label C11)</li> </ul> <b>Planned:</b> <ul style="list-style-type: none"> <li>• Crown Provincial LWRR-ELL-1 (Map Label P3)</li> </ul> |
| FTU_E8<br>CP_E1,<br>CP_E12 | 1 | 6.8  | Community<br>resilience;<br>Critical<br>infrastructure | 6.8 |      | <ul style="list-style-type: none"> <li>•Critical Habitat: American Badger Jeffersonii Subspecies</li> <li>•Guide Outfitters: K9s Cougar Canyon Outfitters Inc</li> <li>•Endangered occurrences: American Badger and Black cottonwood - Douglas fir/Douglas maple - common snowberry</li> <li>•Traplines: TR0810T036</li> <li>•Ungulate Winter Range Conditional Harvest Approved: u-8-001</li> </ul>                                                                                         | The FTU is in Mill Creek Regional Park and is surrounded by private residences as well as critical infrastructure. The FMP for this unit has been developed and RDCO has received funding for this project resulting in a <b>High Priority</b> .                                                                                                                                                                                                                                                                                                                                                                                                                  | Mill Creek Regional Park<br><br><b>Prescription Ready for Implementation</b>      | RDCO Parks | <b>Planned:</b> <ul style="list-style-type: none"> <li>• RDCO CRI-MC (Map Label P7) (CRI 556)</li> </ul>                                                                                                                                                                                                                                            |
| FTU_E9                     | 1 | 4.6  | Community<br>Resilience                                | 4.6 |      | <ul style="list-style-type: none"> <li>•Critical Habitat: American Badger Jeffersonii Subspecies and Great Basin Gophersnake</li> <li>•Guide Outfitters: Okanagan Outfitters Ltd.</li> </ul>                                                                                                                                                                                                                                                                                                 | The FTU is located in Scenic Canyon Regional Park. The FMP for this unit has been developed and RDCO has received funding for this project resulting in a <b>High Priority</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Scenic Canyon Regional Park                                                       | RDCO Parks | <b>Proposed in other Plans:</b> <ul style="list-style-type: none"> <li>• RDCO Parks 2020 CWRP FTU:</li> </ul>                                                                                                                                                                                                                                       |

|                     |   |      |                                          |  |      |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                           |            |                                                                |
|---------------------|---|------|------------------------------------------|--|------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------------------------------------------------------|
| CP_E1,<br>CP_E12    |   |      |                                          |  |      |  | <ul style="list-style-type: none"> <li>•Endangered occurrences: American Badger and Western Screech-Owl, macfarlanei subspecies</li> <li>•Traplines: TR0810T035</li> <li>•Ungulate Winter Range Conditional Harvest Approved: u-8-001</li> </ul>                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Prescription Ready for Implementation                                                                                                                                                                                                                                                                                     |            | SCA1<br><br>Planned:<br>• RDCO CRI-SC (Map Label P8) (CRI 556) |
| BU_E1<br><br>CP_E14 | 3 | 71.3 | Prescribed Burn;<br>Community Resilience |  | 71.3 |  | <ul style="list-style-type: none"> <li>•Critical Habitat: American Badger Jeffersonii Subspecies and Great Basin Gophersnake</li> <li>•Guide Outfitters: K9s Cougar Canyon Outfitters Inc.</li> <li>•Endangered occurrences: American Badger</li> <li>Slope Stability: Potentially unstable</li> <li>•Soil Erosion: Low and Moderate</li> <li>•Traplines: TR0810T036</li> <li>•Ungulate Winter Range Conditional Harvest Approved: u-8-001 and u-8-006</li> </ul> | The Burn Unit is in sntsk'il'ntən - Black Mountain Regional Park. The burn unit was identified in consideration of logical burn unit principles and is bound by roads and trails. The unit is characterized by O1-a/b fuel types with isolated pockets of C-7 fuels with open FdPy stands. The unit has a <b>Low Threat Rating</b> , however <b>O-1a/b fuel type threat is generally misrepresented due to lack of crown and ladder fuels - which have significant influence on WTA scores.</b>                       | <p>sntsk'il'ntən - Black Mountain Regional Park</p> <p>Prescribed burn unit - example unit delineated based off anchor features. It is expected that during FMP and Burn Plan development the unit may expand or be refined to derive logical burn unit(s).</p> <p><b>Historical Fire Occurrence:</b><br/>K00511 1958</p> | RDCO Parks | N/A                                                            |
| BU_E2<br><br>CP_E14 | 3 | 73.3 | Prescribed Burn;<br>Community Resilience |  | 73.3 |  | <ul style="list-style-type: none"> <li>•Critical Habitat: Gypsy Cuckoo Bumble Bee and Lewis's Woodpecker</li> <li>•Guide Outfitters: Okanagan Outfitters Ltd.</li> <li>•Traplines: TR0809T021</li> <li>•Ungulate Winter Range Conditional Harvest Approved: u-8-001</li> </ul>                                                                                                                                                                                    | The Burn Unit is in John's Family Nature Conservancy Regional Park. The burn unit was identified in consideration of logical burn unit principles and is bound by roads, trails, and riparian features. The unit is characterized by O1-a/b fuel types with isolated pockets of C-7 fuels with open FdPy stands. The unit has a <b>Low Threat Rating</b> , however <b>O-1a/b fuel type threat is generally misrepresented due to lack of crown and ladder fuels - which have significant influence on WTA scores.</b> | <p>John's Family Nature Conservancy Regional Park</p> <p>Prescribed burn unit - example unit delineated based off anchor features. It is expected that during FMP and Burn Plan development the unit may expand or be refined to derive logical burn unit(s).</p>                                                         | RDCO Parks | N/A                                                            |

|  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |  |  |

Historical Fire  
Occurrence:  
K506628 2003



### 5.7.6 Planning to Implementation of FTUs

Once an area is identified as a proposed fuel treatment unit, completing the vegetation/fuel management on the land base is a two-phase approach; the first phase involves the development of a Fuel Management Prescription (FMP) by a BC Registered Professional Forester (RPF). The FMP details the site-specific attributes and ecology of the identified forest area and prescribes appropriate strategies for fuel reduction that meet objectives for wildfire risk reduction, as well as other important overlapping values such as wildlife habitat, ecological restoration, or recreation. It is the responsibility of the prescribing forester during the FMP development phase to ensure the proposed fuel treatment activities are ecologically suitable for the existing forest stand and site conditions and promote long-term forest resilience. Additionally, it is during the FMP development phase where further information sharing is completed with Indigenous Governments and stakeholders to ensure all concerns are identified and addressed/incorporated.

The final phase is the implementation of the FMP where treatment operations occur on the ground. Operational contractors must be acquired to complete the treatment specifications as outlined in the FMP.

Additionally, for proposed treatments overlapping the jurisdiction of other land managers, the Regional District MUST work in collaboration with the Ministry of Forests, First Nations, and other applicable land managers at the fuel prescription development phase to determine suitability of treatment and funding options. Other land managers include but are not limited to:

- **Woodlot owners** – funding is available through Woodlots BC and the Forest Enhancement Society of BC (FESBC) for fuel treatments within woodlots
- **Community Forests** – funding is available through FESBC for fuel treatments within community forests
- **First Nations Woodland Licenses (FNWL)** – funding is available through FESBC and other avenues for fuel treatments within FNWLs.
- **Provincial Parks and Protected Areas** - it is the jurisdiction of BC Parks to fund and implement fuel treatments within their parks and protected areas.



### 5.7.7 Vegetation Management Priority Action Table

The following table shows recommended priority action items for the RDCO to continue to proactively manage vegetation within the wildland urban interface at all scales.

Table 29. CWRP Vegetation Management Priority Action Table.

| RDCO CWRP Action Plan                                                                                                                                                                                                                                                                                                   |                                                 |                  |                       |                                                       |                                                                                                                                                         |                                                                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|------------------|-----------------------|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action                                                                                                                                                                                                                                                                                                                  | Lead(s)                                         | Priority         | Timeframe             | Resources Required                                    | Metric for Success                                                                                                                                      | Rationale/Notes                                                                                                                                                                                                                           |
| Vegetation Management                                                                                                                                                                                                                                                                                                   |                                                 |                  |                       |                                                       |                                                                                                                                                         |                                                                                                                                                                                                                                           |
| <b>Encourage residents to remove/reduce flammable vegetation in the Immediate, Intermediate, and Extended zones on their properties.</b><br>Promote the use of the FireSmart BC Landscaping Guide to inform vegetation management best practices and replace flammable vegetation with more fire-resistant landscaping. | RDCO Fire Services Staff, FireSmart Coordinator | <b>Very High</b> | Immediate and ongoing | Communication and educational resources, FCFS Funding | Residents begin to show interest in FireSmart landscaping and actively removing flammable vegetation nearest to homes and structures on their property. | Utilize the funding available through the CRI program for the FireSmart Rebate Program and provide off-site vegetative debris disposal for property owners who have undertaken their own vegetation management in the Home Ignition Zone. |

| RDCO CWRP Action Plan                                                                                                                                                  |                                                 |           |                          |                                                                                                         |                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-----------|--------------------------|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action                                                                                                                                                                 | Lead(s)                                         | Priority  | Timeframe                | Resources Required                                                                                      | Metric for Success                                                                                                                                                                              | Rationale/Notes                                                                                                                                                                                                                                                                                                                                                                                                      |
| Develop fuel management prescriptions or burn plans for vegetated areas identified on provincial crown land within the eligible WUIs.                                  | RDCO Fire Services Staff, FireSmart Coordinator | Very High | Annually, ongoing        | FCFS funding, A Registered Professional Forester is required to write all fuel management prescriptions | 1-2 fuel management prescriptions are developed for an identified fuel treatment area within the Regional District each year.                                                                   | It is recommended to start with Priority 1 proposed fuel treatment units as identified within the CWRP. This <b>must occur in collaboration</b> with the Ministry of Forests, First Nations (Westbank First Nation FNWL and Community Forest Licenses), BCWS, and other applicable land managers. Fuel treatment areas should be planned as part of the integrated fuel management / prescribed fire planning table. |
| Undertake fuel management treatment operations or prescribed burns on provincial crown land within the eligible WUIs based on completed fuel management prescriptions. | RDCO Fire Services Staff, FireSmart Coordinator | Very High | Every 1-2 years, ongoing | FCFS funding, Contractors must be acquired to complete treatment operations                             | After the fuel management prescription phase is completed, at least 1-2 fuel management treatments are operationally completed for an identified area in the Regional District every 1-2 years. | This <b>must occur in collaboration</b> with the Ministry of Forests, First Nations (Westbank First Nation FNWL and Community Forest Licenses), BCWS, and other applicable land managers. Fuel treatment units should be implemented as part of the integrated fuel management / prescribed fire planning table.                                                                                                     |

| RDCO CWRP Action Plan                                                                                                                                                                                                                                                                   |                                                    |                  |                       |                                                                                                             |                                                                                                               |                                                                                                                                                                                                                                                                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|------------------|-----------------------|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action                                                                                                                                                                                                                                                                                  | Lead(s)                                            | Priority         | Timeframe             | Resources Required                                                                                          | Metric for Success                                                                                            | Rationale/Notes                                                                                                                                                                                                                                                                          |
| <b>Complete recommended mitigation activities identified in FireSmart assessments for residential homes and properties owned by seniors (65 years or older), elders, people with limited mobility, or vulnerable populations who cannot undertake mitigation activities themselves.</b> | RDCO Fire Services Staff,<br>FireSmart Coordinator | <b>Very High</b> | Immediate and ongoing | FCFS funding, tracking system of vulnerable peoples requiring assistance implementing mitigation activities | Target mitigation activities for five properties a year.                                                      | Funding is available through the <a href="#">FireSmart Community Funding and Supports</a> program and application guide.                                                                                                                                                                 |
| <b>Work collaboratively with WoodlotsBC to manage wildfire risk reduction activities on Woodlot license areas adjacent to private residential properties.</b>                                                                                                                           | RDCO Fire Services Staff,<br>FireSmart Coordinator | <b>High</b>      | On-going              | Relationship with WoodlotsBC                                                                                | RDCO establishes contact with WoodlotsBC and shares proposed FTUs from CWRP that have woodlot tenure overlap. | Identified FTU's and Wildfire Threat Assessments in this CWRP can be used to help prioritize treatments in woodlots. <a href="#">WoodlotsBC</a> administers funding for woodlot holders to reduce wildfire risk with support from the <a href="#">Forest Enhancement Society of BC</a> . |

| RDCO CWRP Action Plan                                                                                                                                           |                                                                       |          |           |                                                          |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------|-----------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action                                                                                                                                                          | Lead(s)                                                               | Priority | Timeframe | Resources Required                                       | Metric for Success                                                                                    | Rationale/Notes                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Create an inventory system to track areas that have been fuel managed, their respective maintenance cycles, and various FireSmart assessments.</b>           | RDCO Fire Services Staff,<br>FireSmart Coordinator,<br>GIS Department | High     | Annually  | Excel spreadsheet tracking system or geospatial database | Creation of a tracking system.                                                                        | Establishing a tracking system will streamline the monitoring of ongoing fuel treatments and help identify necessary maintenance tasks at various intervals. This will ensure that treatments remain effective over time and allow for timely interventions to address any emerging risks or concerns. The tracking system should also consider various FireSmart assessments.                                                                    |
| <b>Complete Initial FireSmart CSSGS Assessments and Checklists on parks identified as Greenspace Treatment Unit Type in the Proposed FTU table of the CWRP.</b> | RDCO Fire Services Staff,<br>FireSmart Coordinator                    | Moderate | 2026-2028 | <a href="#">CSSGS Assessment</a> , FCFS funding.         | Complete assessments and determine eligibility of Regional and/or Community parks for CSSGS projects. | The following parks have been identified as potential candidates for FireSmart CSSGS assessments: <ul style="list-style-type: none"> <li>• Kopje Regional Park</li> <li>• Joe Rich Community Hall Park</li> <li>• Shannon Lake Regional Park</li> <li>• Gellatly Heritage Regional Park</li> <li>• Hardy Falls Regional Park</li> <li>• Killiney Community Hall Park</li> <li>• Raymer Bay Regional Park</li> <li>• Star Regional Park</li> </ul> |

| RDCO CWRP Action Plan                                                                           |                                                    |          |           |                                    |                                                                                   |                                                                                                                                                 |
|-------------------------------------------------------------------------------------------------|----------------------------------------------------|----------|-----------|------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Action                                                                                          | Lead(s)                                            | Priority | Timeframe | Resources Required                 | Metric for Success                                                                | Rationale/Notes                                                                                                                                 |
| <b>Complete recommended mitigation activities identified in the FireSmart CSSGS Assessment.</b> | RDCO Fire Services Staff,<br>FireSmart Coordinator | Moderate | 2026-2029 | FCFS funding, materials and labour | Complete recommended mitigation activities on two CSSGS sites by the end of 2029. | Funding is available for eligible locations through the <a href="#">FireSmart Community Funding and Supports</a> program and application guide. |



## 6.0 Implementation

### 6.1 FireSmart Road Map

No two FireSmart journeys are the same, however FireSmart has created a roadmap to help local governments understand where to start and general steps to take on the way to community wildfire resiliency<sup>29</sup>. The roadmap is broken into four different phases, and should be completed sequentially, but will depend on previous FireSmart activities and the recommended action items in this CWRP. There are three fundamental elements that should be completed prior to beginning the FireSmart roadmap.

1. Establish a FireSmart position
2. Complete a Community Wildfire Resiliency Plan
3. Implement or participate in a Community FireSmart Resiliency Collaborative.

#### 6.1.1 Engagement Phase

In this phase, the primary objective is awareness. The focus is on building an understanding of the risk of wildfire and the benefits of developing and growing a local FireSmart program.

Activities that should be completed in this phase are suggested below, but not limited to:

- **FireSmart Positions:** Training.
- **Education:** Develop/update signage, social media, community websites, and/or newsletters; organize and host public information meetings and workshops; promote and distribute FireSmart educational materials and resources; host a Wildfire Community Preparedness Day.
- **Interagency Cooperation:** Participate in FireSmart and/or fuel management planning tables; attend the annual Wildfire Resiliency and Training Summit.
- **Residential Areas:** Undertake Home Ignition Zone Assessments; offer off-site debris removal programs.

#### 6.1.2 Initiative Phase

In this phase, the primary objective is acting on and implementing local FireSmart activities. The focus is on building capacity in people and the community to withstand wildfire events.

Activities that should be completed in this phase are suggested below, but not limited to:

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<sup>29</sup> FireSmart. (2023). The FireSmart Roadmap. Referenced from: <https://firesmartbc.ca/resource/the-firesmart-roadmap/>

- **Education:** Support neighbourhoods to apply for FireSmart Canada Neighbourhood Recognition Program.
- **Community Planning:** Complete FireSmart assessments for critical infrastructure, community assets, culturally significant sites, and/or green spaces.
- **Emergency Planning:** Assess community water delivery ability, purchase, or inventory and maintain FireSmart structure Protection Trailers and continually update the emergency plan with lessons learned from previous events.
- **Training:** Undertake training for other FireSmart positions (beyond initial FireSmart coordinator), fire departments, and emergency management staff; develop local Home Partners program.
- **FireSmart Projects:** Complete mitigation activities for **critical infrastructure, community assets, culturally significant sites, and/or green spaces** following completed FireSmart assessments.
- **Residential areas:** Offer local rebate programs.

### 6.1.3 Expansion Phase

In this phase, the primary objective is FireSmart activities within the Eligible WUI. The focus is on broader community planning.

Activities that should be completed in this phase are suggested below, but are not limited to:

- **Education:** Support the organization of a Farm and Ranch Wildfire Preparedness workshop.
- **Community Planning:** Develop FireSmart policies and practices for the design and maintenance of publicly owned land and dwellings.
- **Fuels Management:** Develop prescriptions and/or burn plans and undertake treatments, including cultural and prescribed fire.

### 6.1.4 Integration Phase

In this phase, the primary objective is long-term and permanent changes to support community wildfire resiliency. The focus is on development considerations and collaboration with partners.

Activities that should be completed in this phase are suggested below, but are not limited to:

- **Education:** Support the FireSmart BC Library program at local/regional libraries.
- **Development Considerations:** Amend Official Community Plans, Comprehensive Community Plans and/or land use, engineering, and public works bylaws to incorporate FireSmart principles; revise landscaping requirements in zoning and development permit documents; establish

Development Permit Areas for Wildfire Hazard; amend referral processes for new developments to ensure multiple departments, including the fire department and/or emergency management personnel, are included.

- **Interagency Cooperation:** Support the FireSmart BC Plant Program at local garden centres or nurseries; partnerships with local landscapers, developers, real-estate agents, insurance, etc.

## 6.2 Plan Monitoring Tracking and Reporting

The CWRP action plan should be reviewed annually to capture any significant changes that could affect implementation or priority levels, as well as to track which actions have been completed or are in progress. Completed actions should be summarized, including information on specific measurable outcomes that demonstrate reduced wildfire risk in the RDCO. In addition, a five-year comprehensive review/update should take place in 2029 including specific updates on:

- How wildfire risk has changed based on recent wildfires;
- Which vegetation management activities have been completed; and
- Any significant changes to the built environment due to growth and development, economic changes, or other factors.

Table 30 provides an example monitoring, tracking, and update summary template for RDCO CWRP. Annual updates should consider renaming the plan version as 1.1, 1.2, 1.3, etc. Five-year comprehensive updates should consider renaming the plan version as 2.0, 3.0, etc. Tracking actions that have been completed or are in progress is useful for creating accountability, as well as reporting accomplishments and successes. Summaries of specific measurable outcomes are useful for reporting to decision makers and applying for future funding.

Table 30. RDCO CWRP monitoring, tracking and update summary.

| Plan Version | Plan Year | Plan Name                              | Actions in Progress | Actions Completed | Notes |
|--------------|-----------|----------------------------------------|---------------------|-------------------|-------|
| 1.0          | 2020      | RDCO Regional Parks CWPP               |                     |                   |       |
| 2.0          | 2025      | RDCO Electoral Area East and West CWRP |                     |                   |       |

## 7.0 Appendices

### Appendix A Glossary of Terms

**Area of Interest:** The AOI for a CWRP includes the area that lies within the municipal boundary, regional district boundary, or First Nations land, including First Nation reserve land, land owned by a Treaty First Nation (as defined by the Interpretation Act) within treaty settlement lands, or land under the authority of an Indigenous National Government boundary. The AOI should reflect how the community is organized and how it approaches other similar planning projects within its jurisdictional boundaries. When communities are located close together and are geographically aligned, a “regional” approach may be most effective.

**Critical Infrastructure (CI):** are assets owned by the Provincial government, local government, public institution (such as health authority or school district), First Nation or Treaty First Nation that are essential to the health, safety, security or economic wellbeing of the community and the effective functioning of government, or assets identified in a Local Authority Emergency Plan Hazard, Risk & Vulnerability, and Critical Infrastructure assessment.

**FireSmart Landscaping:** is the removal, reduction, or conversion of flammable plants (such as landscaping for residential properties, parks, open spaces, and critical infrastructure) in order to create more fire-resistant areas in FireSmart Non-combustible Zone and Priority Zones 1 and 2 (refer to the FireSmart Guide to Landscaping).

**Fuel Management Treatment:** Fuel management treatment is the manipulation or reduction of living or dead forest and grassland fuels to reduce the rate of spread and fire intensity, and enhance the likelihood of successful suppression, generally outside of FireSmart Non-combustible Zone and Priority Zones.

**Values at Risk (VAR):** are the human or natural resources that may be impacted by wildfire. This includes human life, property, critical infrastructure, high environmental and cultural values, and resource values.

**Wildfire Risk:**

Likelihood of a fire occurring  
Associated fire behaviour  
Impacts of the fire (consequence)

**Wildfire Threat:** The ability of a wildfire to ignite, spread, and consume organic material (trees, shrubs, and other organic materials) in the forest. The major components used to define wildfire threat are fuel, weather, and topography.

**Wildland Urban Interface (WUI):** The WUI is defined in the FireSmart manual as any area where combustible forest fuel is found adjacent to homes, farm structures, or other outbuildings. This may occur

at the interface, where development and forest fuel (vegetation) meet at a well-defined boundary, or in the intermix, where development and forest fuel intermingle with no clearly defined boundary.



## Appendix B Home Ignition Zone

FireSmart describes three Priority Zones around a building, collectively named the Home Ignition Zone (Figure 27) alongside descriptions of what these zones should look like, starting from the edge of a building and moving outwards.

- Immediate Zone (0 – 1.5 m) Non-combustible surface should extend around the entire home and any attachments, such as decks.
- Intermediate Zone (1.5 – 10 m) This should be a fire-resistant area, free of all materials that could easily ignite from a wildland fire.
- Extended Zone (10 – 30 m) Thinned and pruned coniferous trees, alongside routine dead surface fuel cleanup.



Figure 27. FireSmart Home Ignition Zone, which is comprised of four priority zones, as illustrated in the BC FireSmart Begins at Home Manual

Of particular importance are neighbourhoods where homes and buildings are situated close together in a relatively higher density than in more rural areas. This means that FireSmart Priority Zones frequently overlap with one another (i.e., Immediate Zone or Intermediate Zone from one building may encroach into an adjacent building's Zone Immediate or Intermediate). This highlights the importance of community resilience towards wildfire though working together to reduce wildfire hazard, especially within the WUI.

## Appendix C Additional Resources for FireSmart Disciplines

### Education

- [FireSmart BC website](#)
- [BC Wildfire Prevention website](#)
- [First Nations' Emergency Services Society](#)
- [Programs FireSmart Canada](#)
- [Wildfire Preparedness Guide](#)
- [First Nations Forestry Council](#)
- [BC Wildfire Service](#)
- [BC Government - Wildfire](#)
- [Emergency Management in BC](#)
- [Destination BC - Emergency Preparedness](#)
- [Educational Messages Desk Reference](#) (the National Fire Protection Association)
- [BC Hydro - be prepared for emergencies](#)

### Local Bylaws

The following Local Bylaws can be accessed on the [RDCO Bylaw Website](#):

- Development Application Procedures – Bylaw No. 1527
- Fire Prevention and Regulations – Bylaw No. 1066
- Smoke Control – Bylaw No. 773
- Emergency Management Program – Bylaw No. 1444
- Ellison Fire Protection Local Service Establishment – Bylaw No. 418
- Fire Prevention & Regulations – Bylaw No. 1066
- Joe Rich Fire Protection Local Service Establishment – Bylaw No. 404
- Ridgeview Development Fire Protection Service Area Establishment – Bylaw No. 909
- Community Parks Regulation – Bylaw No. 1431
- Regional Parks Plan – Bylaw No. 884
- Regional Parks Regulation – Bylaw No. 1427
- Development Applications Procedures – Bylaw No. 1527
- Ellison Official Community Plan – Bylaw No. 1124
- Joe Rich Rural Land Use – Bylaw No. 1195
- Regional Growth Strategy – Bylaw No. 1336
- Rural Westside Official Community Plan – Bylaw No. 1274
- South Slopes Official Community Plan – Bylaw No. 1304
- Brent Road Trepanier Official Community Plan – Bylaw No. 1303
- Zoning – Bylaw No. 871

### Provincial Acts and Regulations

- [Emergency Management and Disaster Act](#) (2024)
- [BC Local Government Act](#) (2015)

- [BC Open Burning and Smoke Control Regulations](#) (2023)
- [BC Wildfire Act and Regulations](#) (2005)
- [Forest and Range Practices Act](#) (2021)

### Federal Acts

- [Forestry Act](#) (1985)
- [Migratory Birds Convention Act](#) (1994)
- [Canadian Environmental Protection Act](#) (1999)
- [Species At Risk Act](#) (2002)
- [Fisheries Act](#) (2019)

### Development Considerations

- Information on Development Permit Areas is available [at FireSmart BC - Development Considerations](#)
- Additional guidance on land use planning tools and strategies for the Wildland-Urban Interface include the American Planning Association's PAS Report 594 [Planning the Wildland-Urban Interface \(2019\)](#), which available at no charge through the association's website.
- The National Research Council (NRC) Wildland-Urban Interface Technical Committee has also published [National Guide for Wildland-Urban Interface \(WUI\) Fires](#) (2021); this guide provides guidance to Canadian local governments and First Nations on WUI land use planning and regulation implementation.

### Interagency Cooperation

- [FireSmart BC](#)
- [Indigenous Services Canada](#)
  - Emergency Management Assistance Program (EMAP), which supports communities in accessing emergency assistance services. Will provide funding for communities to build resiliency and prepare and respond to natural hazards.
- [First Nation Health Authority](#)
  - Emergency Management Branch – ensures FN communities are effectively incorporated into emergency preparedness, prevention, response and recovery initiatives.
- [First Nation Emergency Services Society](#)
  - Emergency Management department provides community-based emergency management guidance, support, and assistance to BC First Nation communities.
  - Fire Services Department assists communities to increase level of fire protection.
  - Forest Fuel Management Department liaises with governments and other agencies to assist with wildfire prevention activities.
- [Emergency Management BC](#)
  - BC Wildfire Service and Emergency Management BC (EMBC), along with several other Ministries and agencies, are working in close collaboration to provide First Nation training, equipment, and capacity support.

### Cross-Training

- [OH&S \(06\) - Fire Safety Planning & Systems](#)
- [FireSmart training courses](#)
- [Recognized British Columbia S-100 instructors](#)

### Emergency Planning

The following resources are available for reference and to assist with emergency planning:

- [National guide for wildland-urban-interface fires](#) - which provides guidance to Canadian local governments and First Nations on WUI land use planning and regulation implementation, as well as guidance on wildfire response preparedness planning.
- [Emergency management in B.C.](#) – which contains several valuable resources including fire services, education and toolkits, and preparedness and recovery information.

### Vegetation Management

- The BCWS Fire and Fuel Management web page offers a number of tools that support fuel management planning and implementation and can be accessed [here](#).
- Contact your local [BC Wildfire Service Fire Centre](#) office to learn more about, engage and collaborate on Landscape Zone vegetation management planning.
- [FireSmart Guide to Landscaping](#)
- Funding resources for fuel management treatments can vary from year to year as funding pots change over time. Current available funding opportunities can be initiated through conversation with [First Nation Emergency Services Society](#) (FNESS) prior to completion of treatments.



## Appendix DMaps

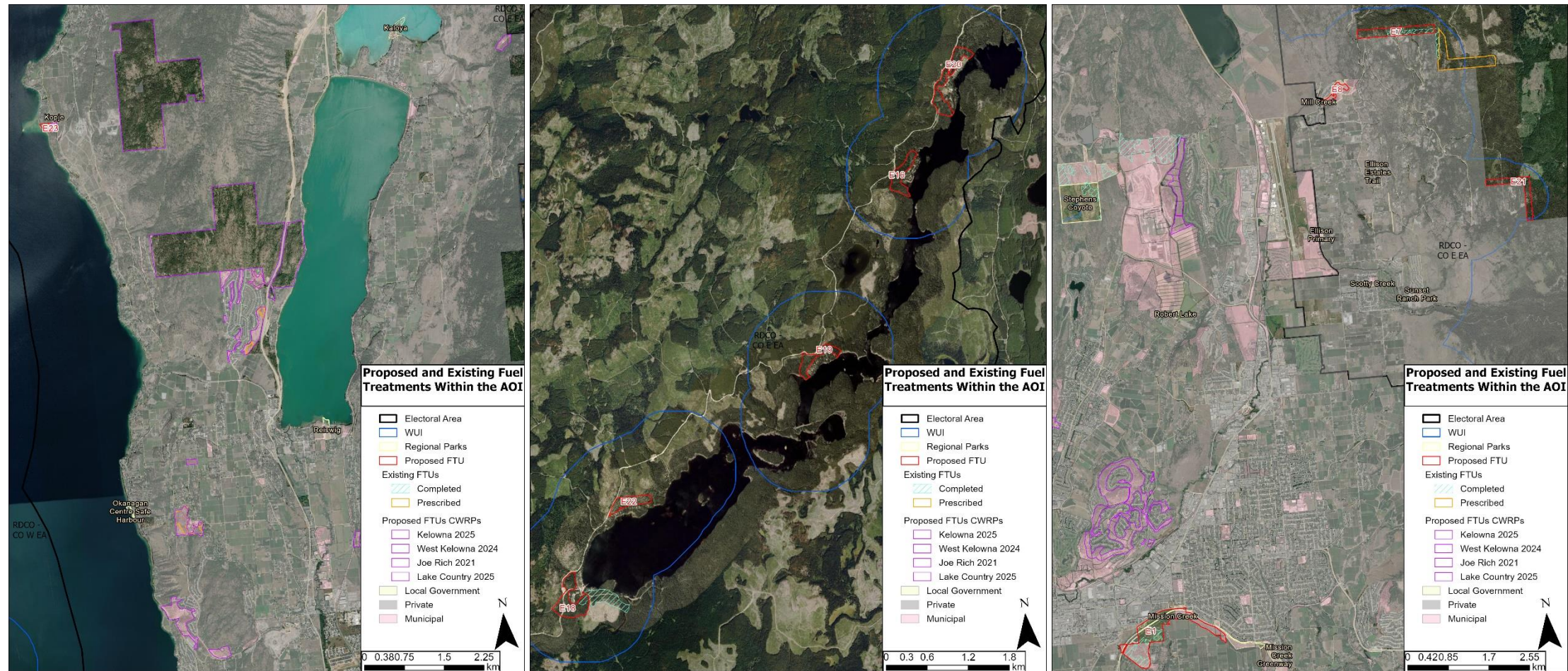


Figure 28. Detailed Proposed FTU Maps Electoral Area East, Lake Country, Ellison, and Beaver Lake Road area. FTU E1, E7, E8, E16, E18, E19, E20, E22, and E23.



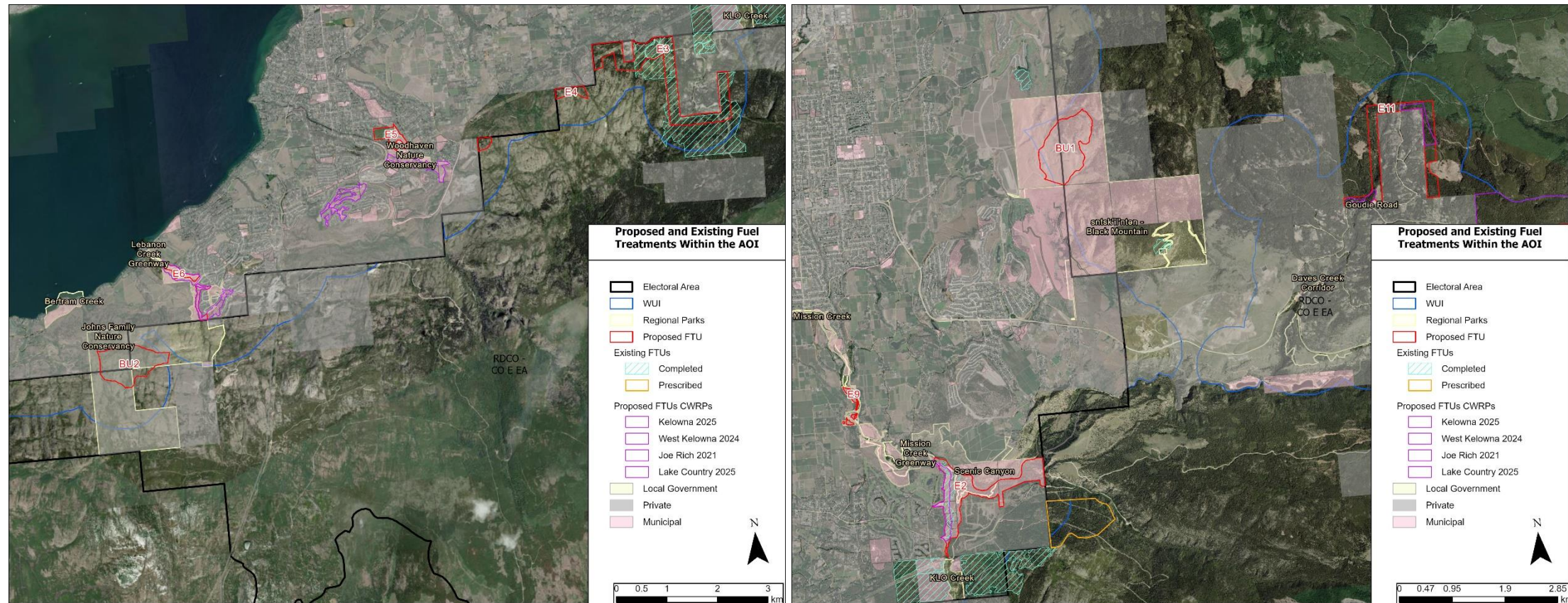


Figure 29. Detailed Proposed FTU Maps Electoral Area East. South Kelowna Area FTU E2, E3, E4, E5, E6, E9, E11, BU1, BU2.



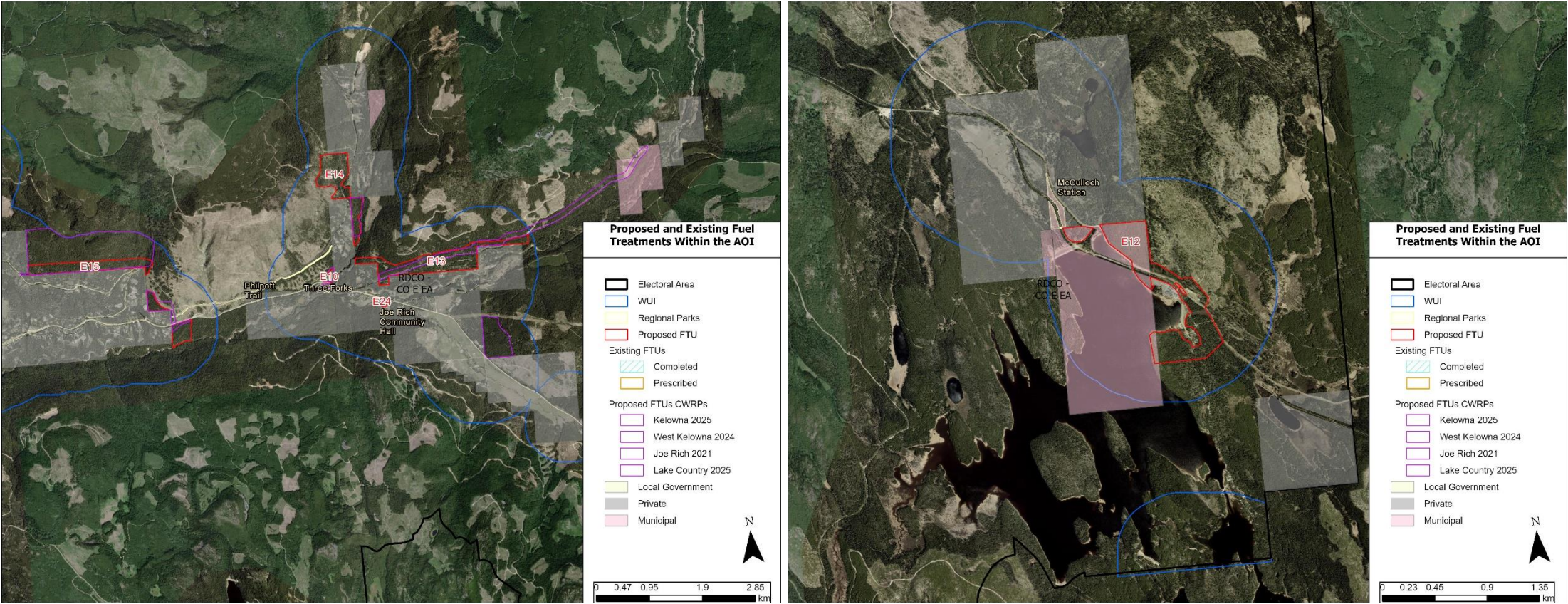


Figure 30. Detailed Proposed FTU Maps Electoral Area East. Joe Rich and McCulloch Station Area. FTU E10, E12 E13, E14, E15, E24



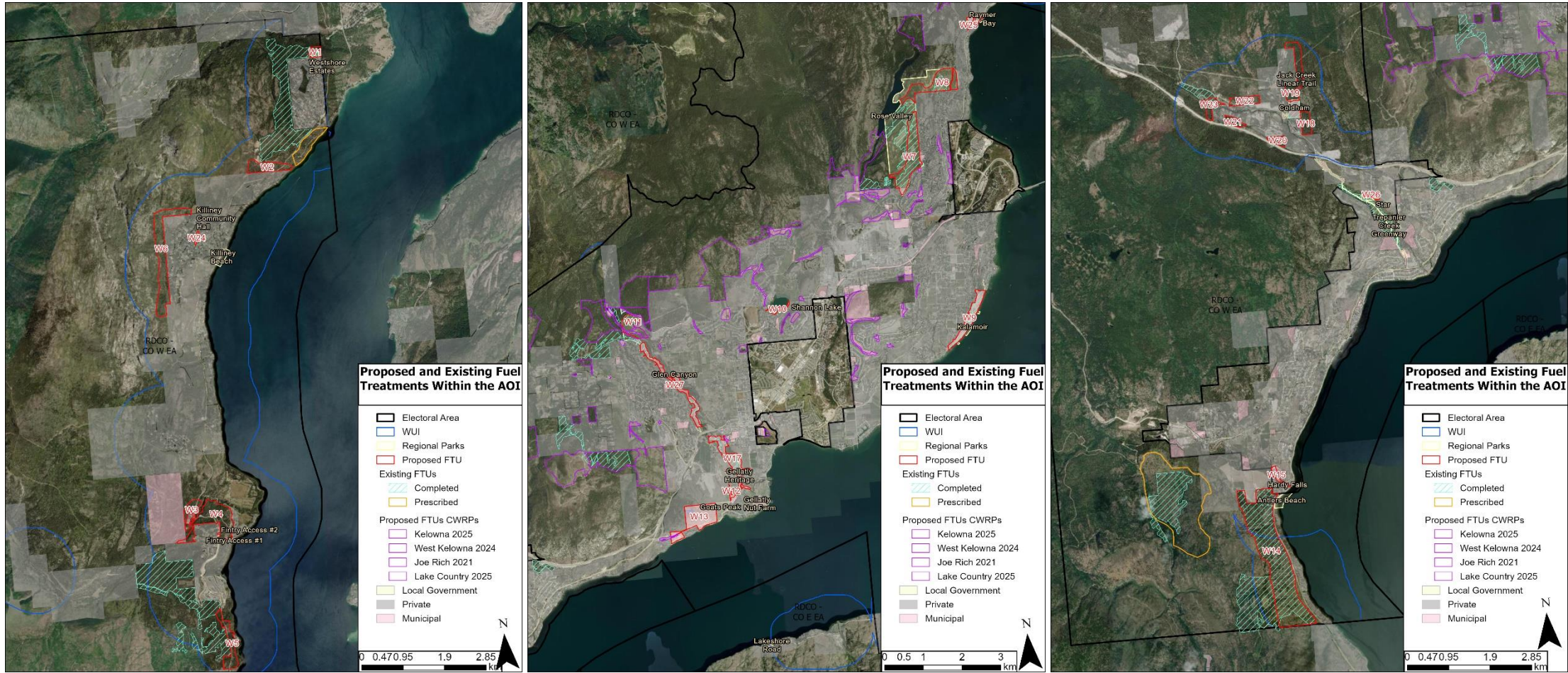


Figure 31. Detailed Proposed FTU Maps Electoral Area West.

## Appendix E Wildfire Threat Assessments

See separate Wildfire Threat Assessment Excel Document for more information.

## Appendix F Engagement

RDCO internally conducted public and First Nation Engagement.