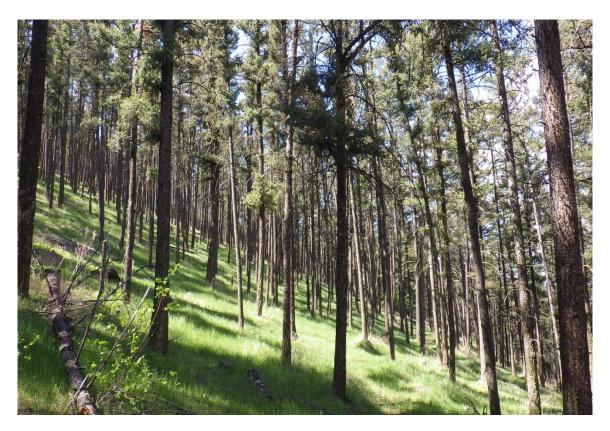
City of Kamloops Community Wildfire Protection Plan July 20, 2016



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EXECUTIVE SUMMARY

City of Kamloops Community Wildfire Protection Plan July 20, 2016

The City of Kamloops (the City) is located in some of the driest ecosystems within the province of B.C. and all of Canada. These wildfire dependent ecosystems experience long, dry summers with regular drought conditions which are conducive for wildfire ignition and spread. The size and shape of the developed parts of the City result in extensive wildland/urban interface (the interface) between residential houses and forest or grasslands. The City of Kamloops has conducted wildfire threat reduction work on City owned and B.C. Crown land since 1987. An annual wildfire threat reduction program was initiated by the City in 1994. These efforts were accelerated in the mid-2000s due to a pine beetle epidemic that caused mortality in over 90% of the mature ponderosa pine trees within the City limits.

The City has identified over 4200 houses directly adjacent to forests or grassland within its boundaries. The more rural subdivisions typically have more structures prone to wildfires. Mobile home parks, most with very small lots and narrow setbacks from the grasslands, are commonly located immediately adjacent to forests and grasslands.

Long term wildfire threats exist throughout the City. The houses on the western edge of Peterson Creek and within the Rose Hill subdivision face the most serious long term threats. The other main areas of concern include Barnhartvale, Juniper Ridge, Heffley and Pineview. The intention of the City of Kamloops fuel management program is to retain all interface areas within the City in a moderate or low wildfire threat class for the long term. Fuel management treatments are targeted for 200 meters in width when appropriate. The City has completed over 780 hectares of fuel management treatment area on sixty-eight unique sites. Some areas have been treated three or more times. Another fourteen sites, covering 162 hectares, are still requiring their first treatment. Not all private land within interface areas meet a moderate wildfire threat standard. Private land with a high wildfire threat rating adjacent to houses can be found in Barnhartvale, Juniper Ridge, Rose Hill, Pineview and Heffley.

The maintenance requirements on the forest and grasslands within the City of Kamloops will depend on further developments in the area, tree species, forest health, mortality in the stand, conifer ingress/regeneration, grass growth and other factors that increase the amount of dead and down forest fuel, coniferous canopy closure or reduced wildfire suppression crew safe access. Of the sixty-eight past treatment areas, seventeen are requiring maintenance work in the next five years to retain the moderate threat class. As forest stands re-establish themselves after the pine beetle infestation, bio-mass and the associated wildfire threats are expected to increase incrementally each year unless regular, site specific fuel management treatments are continued.

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City of Kamloops Community Wildfire Protection Plan July 20, 2016

1 Community Wildfire Protection Plan Goals

The goals of the City of Kamloops Community Wildfire Protection Plan (CWPP) include;

- to identify and quantify the forestland wildfire threats that directly impact on the developed land within the City of Kamloops,
- to identify and map all possible fuel management treatment areas within approximately 200 meters of developed areas, that would assist in reducing the wildfire threats in the area,
- to establish fuel management guidelines for the City of Kamloops to allow quantifiable assessments of past fuel management activities to ensure fuel treatments meet a consistent standard over time and identify maintenance priorities,
- to prioritize new fuel management activities and a maintenance schedule for past treatment units.
- to identify opportunities to improve wildfire suppression access to the crown land surrounding the community,
- to ensure all fuel management activities recognize the important recreational and visual values of the forested land in and around the City of Kamloops.
- to increase awareness of the unique wildfire threats in the City of Kamloops area.

2 Community Description

Located on the Intermontane Plateau, Kamloops is the meeting place of the South and North Thompson Rivers that form the Thompson River and flow into Kamloops Lake. The Secwepemc people named Kamloops Tk'emlúps, which means "where the rivers meet" and is also known as the Hub City, where major highways meet. The two major ecosystems, grasslands and forests, of southern BC are found in Kamloops and the boundary between the gently rolling Interior Plateau and the vast, rugged Shuswap Highland lies just to the east of the city.

Kamloops has a population of approximately 86 000 residents, is 311 square kilometers in size and located at 340-550 meters in elevation. The City boasts a growing season of 166 days and over 2000 hours on annual sunshine making it the second sunniest City in British Columbia. Annual rainfall is 217.9 mm, with 75.5 cm coming as snow. The mean maximum temperature is 21C and the mean minimum temperature is -4.2C.

The City of Kamloops (the City) is located in some of the driest ecosystems within the province of B.C. and all of Canada. These fire dependent ecosystems experience long, dry summers with regular drought conditions which are conducive for wildfire ignition and spread. The size and shape of the developed parts of the City result in extensive wildland/urban interface (the interface) between residential houses and forest or grasslands. This interface exposes thousands of homes within the City to potential wildfire impacts.

3 City of Kamloops Forest Fuel Management History

The City has been conducting wildfire threat reduction work on City owned and B.C. Crown land since at least 1986. Community concerns led to fuel reduction treatments in Peterson Creek, Barnhartvale and other high wildfire hazard areas on the perimeter of the developed part of the City in the 1980s. Most of the treated areas were initially selected based on local homeowner concerns. An annual wildfire threat reduction program was initiated by the City in 1994. These efforts were accelerated in the mid-2000s due to a pine beetle epidemic that caused mortality in over 90% of the mature ponderosa pine trees within the City limits. The fuel management treatments to improve public safety and reduce wildfire threats have focused on City owned and B.C. Crown land within the City boundaries. A province wide program initiated after the 2003 Filmon Report on wildfires and wildfire preparedness provided much of the funding for the major work up to 2010. Private land treatments have been ongoing as well, but are largely at the expense of the individual landowner. A majority of the larger private land treatments have been in the form of salvage harvesting. The City provided wood collection and disposal services for homeowners with dead pine trees on their property after the pine beetle epidemic. Over 800 hectares have been treated through a variety of grant programs and the City's own budget.

This is the fourth official wildfire threat assessment and planning document completed on the City of Kamloops. The initial wildfire threat assessment was completed in 1990, with follow up reports and maps in 1998 and 2004. A significant portion of the forest stands adjacent to the residential areas have been treated in some fashion to reduce wildfire threats and safety issues. Wildfire threat reduction treatments have been aggressively pursued on B.C Crown and Municipal Crown lands within the City boundaries. These varied treatments have included salvage harvesting, basic pine removal activity with heavy equipment, to hand crew treatments involving danger tree removal, spacing and pruning and surface fuel reduction activities.

The City of Kamloops fuel management treatments covered a gross total of 958 hectares since 1994. Many of these areas have been previously treated before the pine beetle epidemic forced the City to conduct further fuel modification work on these sites. The Peterson Creek area has had at least four different entries since 1994. Numerous other sites have been partly treated at least three times. Approximately 62% of the fuel management work was completed with hand crews, the remaining 38% with completed with heavy equipment.

Table One – Wildfire Threat Reduction Efforts within the City of Kamloops from 1997 to 2010

Initial Wildfire Behaviour Threat Class	Fuel Treatment Type			
	Hand	Machine	Prescribed Burn	Total
Extreme	252.47	161.71	0	414.18
High	331.04	176.91	0	507.95
Moderate	16.86	12.45	6.77	36.08
Total	597.24	351.07	6.77	958.22*

^{*}This number is much larger than that shown in the Table Eleven. Some areas have been treated as many as three times and inconsistent data tracking and estimates have led to inaccuracies.

4 Local Wildfire History/Starts and Weather

Kamloops is located within some of the driest ecosystems in B.C. The ten year fire weather data summaries for four local weather stations suggest that fire weather is a regular occurrence in the area. The Afton weather station, the closest to Kamloops, shows an average of 83.5 high and extreme fire weather days annually for the last decade, with a peak of 122 days in 2009. Fire weather days are not an exact indicator of wildfire threats but it does suggest that there are many drying days in this area that will allow for dry forest fuels.

Table Two – Kamloops Area Fire Weather Data Summary (2006-2015)

Wx Station	Moderate	High	Extreme	Maximum
	Average Days	Average Days	Average Days	High and
	(Range)	(Range)	(Range)	Extreme Days
		·		(year)
Afton	59.3 (35-95)	63.4 (28-84)	20.1 (5-45)	122 (2009)
Leighton Lake	53.2 (40-78)	40.1 (8-61)	5.6 (0-10)	78 (2006)
Paska Lake	41.7 (22-63)	22.9 (0-43)	2.9 (0-8)	25 (2009)
Sparks Lake	45.9 (35-64)	43.9 (12-65)	4.3 (0-10)	71 (2009)

The Kamloops Fire and Rescue has only recently started to track interface wildfires separately from other grass and wildland fires. In the last four years they have responded to 117 'grass' fires within the City for an average of almost 30 per year.

Table Three – Kamloops Fire and Rescue Wildfire Response Statistics 2005-2015

Year	Data Source	# of Grass Fires	# of Interface Fires	Total
2005	Firehouse Software	90 **		90
2006	Firehouse Software	134 **		134
2007	Firehouse Software	118 **		118
2008	Firehouse Software	90 **		90
2009	Firehouse Software	130 **		130
2010	Firehouse Software	64 **		64
2011	Firehouse Software	56**		56
2012 until August (switched to FDM Software)	Firehouse Software	56 **		
2012 (August to present)	FDM Software	14 ^	17	87
2013	FDM Software	10 ^	36	46
2014	FDM Software	41 ^	35	76
2015	FDM Software	46 ^	29	75

^{**}Grass Fires combined with Interface Fires (possibly burning violations)... not separated during these years

5 Wildfire Threat Assessment Process

Wildfires have been the main agent of change for the forest ecosystems in the City of Kamloops area for centuries. The forest ecosystems have been regularly modified by varying intensities of wildfires. The result of aggressive wildfire suppression in the last fifty or more years is the accumulation of forest fuels over time as the wildfire return interval has been lengthened. These forest fuels include an increased number of conifer trees and a buildup of dead and dry surface fuels. The resulting fuel buildup creates the potential for more intense, stand replacement wildfires to occur. The additional trees also create more inter-tree competition for moisture and nutrients, creating forest health issues and good conditions for defoliators and diseases. Spruce budworm, Douglas Fir Tussock Moth and Western and Mountain Pine Beetles have all impacted the conifers in the Kamloops area in the past decade.

[^] grass/landscape fires and other outdoor fires does not include burning violations

5.1 Fire Weather

The valley bottoms and lower elevations in the Thompson area are located in some of the driest, hottest ecosystems in Canada. Weather that will dry forest fuels and allow for wildfire spread regularly occurs from April through October in the forest ecosystems around Kamloops.

The main east to west and north to south valleys respectively create variable wind patterns. The local prevailing upper elevation winds blow from the south and west, but are translated into valley winds and daytime heating and cooling winds at lower elevations. Summer outflow winds are also common along both the North and South Thompson drainages.

5.2 Topography

The City of Kamloops is located at the confluence of the North and South Thompson Rivers in south central British Columbia. A majority of the City is located on the flats of North Kamloops, Brocklehurst, Rayleigh, Valleyview and Westsyde, and on a moderate to steep north facing slope which includes Sahali, Aberdeen, Juniper Ridge, Barnhartvale and Rose Hill. This slope is broken by Peterson Creek, a steep, unstable gully and numerous other smaller gullies. The south aspects are rolling grassland hills to the northwest and the northeast on the Tk'emlups Indian Band I.R. #1. In general, the topography in the Kamloops area is rolling, with moderate elevation gains, by B.C. standards, with variable aspects. Silty sand soils have allowed deep narrow gullies to develop from erosion, limiting access to many areas.

5.3 Forest Fuels

The forest fuel complexes in the Kamloops area include a bunchgrass/big sage grassland ecosystem at lower elevations. The pine beetle infestation, of seven to ten years ago, that caused mortality in over 90% of the mature Ponderosa Pines (pines) in the area created an increase in the local grasslands. This forest ecosystem is best described in the Canadian Forest Fire Behaviour Prediction System (FBP) as an O-1 fuel type. The Ponderosa Pine regeneration is very healthy on the mid-slopes in the Kamloops area, mostly on the north slopes and in the draws and gullies. The regeneration is largely located in areas where the overstorey pines were killed by pine beetles and removal of the stand occurred in the 2006-2009 period.



Dense conifer regeneration on north slopes in Aberdeen greenbelt.

The pine typically germinate in clumps, creating thickets of pine trees, most in the one to four meter tall range in the spring of 2016. These fuels could develop into a serious wildfire threat if left unmanaged. This forest ecosystem is best described in the Canadian Forest Fire Behaviour Prediction System (FBP) as a transition from O-1 to C-4 fuel type. For mapping purposes these stands have been identified as O-1.



Fuel managed C-7 fuel type in Aberdeen.

The middle to upper slopes on the south side of the South Thompson and Thompson Rivers are dominated by drybelt Douglas-fir stands, with residual pines and high value wildlife trees. The City has many forested gullies and greenbelts which snake through Barnhartvale, Rose Hill, Sahali and Aberdeen. Left unmanaged, the Douglas-fir stands are multi-layered, multi-aged forests with a stressed understory and low live and dead crowns. This stand structure can allow aggressive crown fire development. A majority of these sites, within 100-200 meters of homes and structures have been fuel managed in the past decade. The treatment has generally left the live component of the mature stand and focused on the understorey, resulting in open stands best classified as C-7 or C-3 in the FBP system. The untreated sites vary dramatically from C-7 to C-4. These areas have largely been identified as C-7 for mapping purposes.



Unmanaged C4 fuel type in Kenna Cartwright Park.

5.4 City of Kamloops Wildfire Threat Summary

The City of Kamloops can be directly threatened by wildfires under numerous scenarios. The most serious wildfire threats exist on the south side of the South Thompson and Thompson Rivers corresponding to the highest developed areas. This area can be exposed to wildfires that start in the valley bottom and spread uphill into the community or a wildfire that initiates to the west, south or east of the City and spreads across slope or downhill into the developed areas with the prevailing winds. The

intermix communities of Barnhartvale and Rose Hill are also exposed to wildfires starting inside the community itself.

The Strawberry Hill Fire on Kamloops I.R. #1, immediately north of the City, in 2003 is an good example of the potential wildfire spread rates and wildfire intensity that can be expected in the Kamloops area.

5.5 City of Kamloops Structures in Interface Areas

Over 4000 houses were identified during the most recent wildfire threat assessment as directly adjacent to forests or grassland within the City of Kamloops.

Table Four - Structures Exposure to Undeveloped Forest or Grassland within the City in April 2016

Oity in April 2010			
Location	Number of Structures Directly Adjacent		
	to Forest or Grassland		
Heffley	42		
Westsyde	429		
North Shore	46		
Batchelor Heights	386		
Iron Mask	31		
Pineview	106		
Howe Street West	75		
Aberdeen	531		
Dufferin	240		
Downtown/South Kamloops	225		
Sahali/Peterson Creek	743		
Knutsford	35		
Rose Hill	101		
Hidden Valley Trailer Park	50		
Juniper Ridge	382		
Valleyview	170		
Campbell Creek Industrial Area	70		
Barnhartvale	439		
Dallas Drive	114		
Totals	4215		



Wildland Urban Interface area in Peterson Creek.

6 Biogeoclimatic Information

The City of Kamloops is covered by three different biogeoclimatic zones, each with unique tree species and fuel complexes. The Bunchgrass (BG), Ponderosa Pine (PP) and Interior Douglas Fir (IDF) biogeoclimatic zones are the warmest and driest forest ecosystems in B.C. These biogeoclimatic zones are characterized by a warm, dry climate regime with a long growing season during which moisture deficits are common. These forest ecosystems are included in the Natural Disturbance Type 4 fire regime where regular, low intensity, stand maintaining fires were the norm before European settlement and wildfire suppression activities.

More information on Natural Disturbance Types in B.C. and fire regimes can be found at;

http://www.for.gov.bc.ca/tasb/legsregs/fpc/fpcguide/biodiv/biotoc.htm

The biogeoclimatic zones are shown on the CWPP Wildfire Threat Assessment Map in Appendix E. Brochures describing the three biogeoclimatic zones can be found in Appendix A.

6.1 Analysis of Climate Change on the Kamloops Area

'In May (2013) the concentration of carbon dioxide in the atmosphere reached 400 parts per million, the highest since three million years ago.' – Rising Seas, National Geographic, September 2013. This rise in greenhouse gases is expected to contribute to rising global temperatures and changes in weather patterns, moisture distribution and plant ecosystems. One of the main concerns relating to plant ecosystems is the expected rapid change in weather conditions. Plants will have to migrate to more suitable habitat in short periods of time. This will be very difficult for large plants with heavy seeds and narrow geographic ranges. The weather is expected to change faster than many plants can adapt. This will significantly impact the conifer species in the Kamloops area.

Table Five - Predicted Impacts of Climate Change on Climate Variables and Forests in B.C. During the 21st Century

1 to 4 C increase in surface air temperature with winter temperatures most affected 10 to 20% increase in annual precipitation with less snowfall and more rainfall Reduced snow depth and an increase in the length of the growing season		
Reduced snow depth and an increase in the length of the growing season		
Increasing the risk of summer drought and decreasing soil moisture		
More thunderstorm activity		
Predicted Impacts of Climate Change on B.C. Forests		
Increase in frequency and severity of forest damaging events including forest fires		
Higher than present treeline and northward migration of treeline		
Major expansions of grasslands and shrublands		
Disappearance of wetlands, shrinking lakes and changing hydrology		
Increase in incidents of insects, disease outbreaks and spread of invasive species		
New assemblages of species occurring in time and space		
Overall loss of biodiversity		
Changes in disturbance regimes and forest productivity		
Forest migration into previously treeless landscapes		
Reduced access for winter logging		

Source: Expected Impacts of Climate Change: Dery and Jackson 2006

Predicted impacts of CC on Forests:Ohlson et al; Hebda 2006; Gov't of B.C. 200c; Spittlehouse 2005.

Copied from BC Forest Professional May-June 2008

The impacts of climate change on BG, PP and IDF biogeoclimatic zones in the Thompson area are likely to be;

a. The BG. PP and IDF biogeoclimatic zone that we know of today may also be shifted upwards in elevation, although the different topography found at higher elevations in the Thompson area will alter the zones in many ways.

- b. Severe moisture stress and insect infestations. This will lead to increasing tree mortality on the lower slopes dominated by Douglas-fir. This has already occurred in the Ponderosa Pine stands in the Kamloops area.
- c. Climate change occurring at a rate faster than the forest can adapt, creating potentially catastrophic conditions. This could include high mortality of the present forest cover in a short period of time.
- d. Longer and more severe fire seasons.
- e. Increased wildfire starts from increased thunderstorm activity.
- f. Less available water for wildfire suppression activities.
- g. Stress on riparian area deciduous trees due to changing hydrology.
- h. Loss/alteration of lakeshore habitat.
- i. Changes in mule deer winter range.
- j. Additional stress on SARA listed species.
- k. Less opportunity to utilize heavy equipment on frozen ground for fuel management and timber harvesting to minimize site impacts.

6.2 Climate Change Impacts on Fuel Management/Wildfire Threat Reduction Activities in the Kamloops area

- 1. The protection and enhancement of riparian/wetland areas must be a priority for any forest related activities in the Kamloops area.
- Tree mortality in the lower Douglas-fir stands can be expected to increase substantially. This is not occurring in a significant way in the short term. There are indications of very limited Douglas-fir regeneration throughout the fuel managed areas in the City, suggesting moisture challenges for establishing seedlings.
- 3. All fuel management activities must be designed to ensure stand resiliency through partial retention of all available tree species and size classes.
- 4. Management for mule deer winter range should be conducted outside the presently identified winter range.
- 5. Forest stands are to be treated as lightly as possible to reach the moderate wildfire threat goal while retaining biodiversity, stand resiliency and other forest values.

6.3 Important Forest Health Issues

The Kamloops area has had significant forest health challenges in the past decade. The Western and Mountain Pine Beetle decimated the local pine stands. A majority of these trees were removed shortly after mortality on both crown and private property.

The spruce budworm had limited defoliating Douglas-fir impacts in the Kamloops area. Spruce budworm impacts are cyclical and were heaviest in the mid-2000s and are hardly evident in 2016. This pest thins the crowns of the mature trees and makes them susceptible to moisture stresses and the Douglas Fir Beetle. In areas with a heavy understorey, a significant portion of the smaller trees are directly killed by multi-year infestations. This defoliator can significantly increase the wildfire threats in the area as the small dead trees accumulate as surface and ladder fuels under the main canopy. The Spruce Budworm populations have dropped significantly in the Kamloops area since 2014. The worst infestation occurred in the Pineview area. The Douglas Fir Tussock Moth had a three year cycle from 2009-2011. This defoliator causes tree mortality or severe reduction in growth in Douglas-fir trees. The three year infestation resulted in patches of dead Douglas-fir trees in many parts of the City, mostly in Barnhartvale and Westsyde.

7 Timber Harvesting Land Base

Approximately one-third of the land within the City of Kamloops boundary is provincial crown land. Timber harvesting activities are presently limited to the southwest corner of the City, outside the WUI boundary. This selective harvesting of Douglas-fir is a valuable treatment to reduce surface fuel and crown closure.

8 Wildfire Behaviour and WUI Wildfire Threat Assessment

The wildfire threat assessment mapping and assessment work, as part of this CWPP, was completed in April 2016. This work was conducted to identify, quantify and map all wildfire threat issues within the City of Kamloops and a two kilometer buffer around its perimeter. The assessment was conducted using Wildland Urban Interface Wildfire Threat Assessment Worksheet and Guide (January 24, 2013) recommended by the B.C. Wildfire Service to assess wildfire threats in B.C. All areas were assessed regardless of land ownership to properly access the overall wildfire threats within the City. The area was broken into one of five wildfire behaviour threat classes; very low, low, moderate, high or extreme. A colour coded map showing the five wildfire threat classes was completed. No extreme wildfire behaviour threat class areas were identified during this assessment.

The wildfire threat assessment included ninety-nine threat plots that covered all fuel complexes in the Kamloops area. Forest polygons not directly assessed with a threat plot were assessed using up-to-date ortho photos and near 100% ground truthing. The only areas not directly ground truthed are located in the two kilometer

perimeter buffer, where no structures exist. All plots and associated pictures can be found in Appendix B.

Table Six - Wildfire Behaviour Threat Class Area Summary

Wildfire Behaviour Threat Class	City of Kamloops Hectares (Ha)	Two Km Buffer Hectares (Ha)
None	172	69
Low	7578	2189
Moderate	16358	17535
High	5320	7480
Extreme	0	0
Total	29428	27273

The following wildfire behaviour threat class definitions have been developed specifically for the Kamloops area. The low, moderate, high and extreme threat classes are taken from the wildfire threat assessment worksheet. The specific definitions for each threat class have been developed to clarify the wildfire threat definition and to provide a locally relevant written description of each wildfire threat class. This wildfire threat class system is similar to that used in the Fire Smart publication.

Table Seven - Wildfire Behaviour Threat Class Definitions

Vand Levi				
Very Low (Blue)	Water bodies, active or freshly disturbed gravel pits.			
Low (Green)	Developed land that will not support wildfire spread.	Examples: Golf course, watered and mowed grass, irrigated or heavily managed agricultural land, severely disturbed land, fully developed residential and commercial areas not directly adjacent to forested or undeveloped land.		
Moderate (Yellow)	Developed and undeveloped land that will support surface fire spread only.	Examples: Open bunchgrass and Big Sage grassland. Deciduous forest cover dominated areas. Previously fuel managed forest stands assessed as moderate utilizing a threat worksheet.		
High (Orange)	Forested land that will support candling, intermittent crown and continuous crown fires.	Examples: Unmanaged forested land with coniferous coverage exceeding 20% canopy closure. Multi-layered Douglas-fir dominated stands. Open conifer stands with heavy surface fuel loading. Past fuel managed areas with new dead standing conifers, heavy surface fuel loads or heavy conifer regeneration or not treated to a satisfactory standard.		
Extreme (Red)	Forested land in drybelt ecosystems on south or west facing slopes across contour or below developments that will support intermittent or continuous crown fires adjacent to and within communities, or surrounding individual homes.	Examples: Forested land with relatively continuous coniferous canopy closure, in excess of 40%, within 200 meters of homes. Continuous dead pine within 200 meters of homes or developments. Areas of live and dead pine beetle attack of greater than 40% adjacent to structures. Partly developed subdivisions with unmanaged coniferous forest fuels on the undeveloped lots.		

The threat worksheet guide 'Wildland Urban Interface Wildfire Threat Assessments in B.C. (July 31, 2012) states that low and moderate wildfire threat polygons in the wildland/urban interface are acceptable. High and extreme wildfire threat polygons, adjacent to developments, are considered unacceptable and are to be targeted for wildfire threat reduction (forest fuel management) activities.

All accessed polygons also receive a Wildland Urban Interface (WUI) Wildfire Threat Score as part of the assessment process. The WUI threat assessment identifies the forest land on a community's perimeter, or in intermix situations, that is most likely to directly threaten the adjacent homes and structures in the event of a wildfire. These are the wildland urban interface areas where forest fuels and structures meet. This assessment depends on the location of the assessment polygon relative the developed area, the type of development and the overall position of the development on the slope. The high and extreme WUI wildfire threat class areas are shown as hatched marked areas on the wildfire threat map. Only the high and extreme WUI threat class areas are mapped as the low and moderate areas are considered acceptable and are not targeted for fuel management treatments. The High and Extreme WUI threat class areas are the locations directly targeted for fuel management activities when they overlap a high or extreme wildfire behaviour threat polygon.

Table Eight – City of Kamloops 2016 Wildland Urban Interface Wildfire Threat

Class Summary

WUI Threat Class	City of Kamloops Hectares (Ha)	Two Km Buffer Hectares (Ha)
High	7736	1664
Extreme	871	77
Total	8607	1741

The WUI wildfire threat class definitions for the Kamloops area are;

Table Nine - Wildland Urban Interface Wildfire Threat Class Definitions

High (black hatch lines)	High WUI wildfire threat class areas are located up to 200 meters above and 500 meters side hill or below developed areas. Forest polygons in these areas can directly threaten adjacent structures and developments through radiant or convective heat of a candling and crowning wildfire within the polygon, or through ember spotting activity ahead of the main fire front.	
Extreme (black double hatch lines)	Extreme WUI threat class areas are located within 200 meters side hill or below of a developed area. These forest polygons can directly threaten adjacent structures and developments through radiant or convective heat of a candling and crowning wildfire within the polygon, or through ember spotting activity ahead of the main fire front.	

8.1 Wildfire Threat Mapping

Ryan Strank of City of Kamloops GIS Department completed the wildfire threat mapping digitizing work. The five City of Kamloops CWPP Map are found in Appendices D through H. The report author collected all field data. Any errors, omissions or inaccuracies are the sole responsibility of the report author.

8.2 PSTA Structure Data Analysis and Management

The PSTA data provided by the BC Wildfire Service for the City of Kamloops included 8750 data points outside the Density Class 5 areas of the City. The data is largely from two sources, 1990s era Trim data and the ICI Society. The Trim data appears to identify all structures, not necessarily occupied houses as is the intent of the PSTA Structure data layer (Melinda McClung, MoFLNRO GIS Analyst, personal communication). These structures can be industrial, farm buildings such as barns and hay storage, and outbuildings in urban areas. The ICI Society data provides all private lots with a street address but not necessarily any structures. There is extensive overlap between the two data sets. Some of the newer developments in the City, specifically in Batchelor Heights, Aberdeen and Juniper Ridge are not captured on either data set. These developments are all inside or immediately adjacent to Density Class 5 areas and should show as such in the next iteration of the PSTA data.

To adequately meet the intent of the spatial data requirements for a CWPP, the following procedure was used to sort and analyze the PSTA Structure data.

- All data points in Density Classes 3, 4 and 5 were retained as is. There is
 extensive overlap within these areas but all structures appear to be captured
 accurately with the exception of the three new development areas identified
 above. Few 'phantom' or non-structure data points were located in these areas.
 Those extra points identified are all in close proximity to identified, legitimate
 house structures.
- 2. The Trim data in Density Class 1 and 2 areas was removed. This is where a majority of the non-structure data points are located. The ICI Society data alone appears to accurately capture rural houses within the City of Kamloops and around its perimeter.
- 3. All data points within the Density Class 1 and 2 areas were analyzed using the latest City of Kamloops ortho mosaics and Google Earth to determine if a structure is present and whether it is an occupied dwelling or critical infrastructure. This resulted in the identification of twenty-five data points where no structure existed. These points have been identified on the spatial data for the City of Kamloops CWPP update.
- 4. The Tk'emlups Indian Band I.R. #1 PSTA data was used as provided.

The final CWPP map and PSTA Structure spatial data will show;

- All PSTA Structure data points in Density Classes 3, 4 and 5 as they were provided. Critical infrastructure such as schools in Density Classes 3 and 4 were identified.
- b. No Trim data in Density Classes 1 and 2 will be shown on the CWPP map. These data points will all be shown as overlap or non-dwelling data points in the spatial data.
- c. The ICI data will be shown on the map, without the twenty-five points determined to have no structures present. The twenty-five data points will be identified in the spatial data as having no structure present.
- d. New structures located in Batchelor Heights, Aberdeen and Juniper West have been added to the structure layer and shown on the map.
- e. The Kamloops I.R.# 1 spatial data is mapped as per the PSTA data.

8.3 Mapped Fuel Management Treatment Units

The mapped Fuel Management Treatment Units (FMTUs) within the City of Kamloops boundaries, on municipal or provincial crown land, have been divided into four separate categories as shown in the following Tables. The fourteen new FMTU are a combination of four previously identified FMTUs that were not treated before the hiatus from fuel management within the City boundaries in 2010, and ten new FMTUs

that have been identified to meet the wildfire threat reduction guidelines 200 meter buffer criteria. The previously treated FMTUs have been divided into three maintenance streams based on the stand response and present condition since fuel management treatments were conducted. The M1 areas typically have dead standing trees or patches of thick regeneration that are immediately adjacent to private land. These areas do not meet the City of Kamloops fuel management guidelines and are identified as needing work in the short term to bring them in line with the established guidelines (see 9 City of Kamloops Forest Fuel Reduction Guidelines). The M2 areas have younger regeneration clumps or pruning that does not meet the standard but are not requiring direct action at this time. These areas have been tentatively scheduled for fuel reduction treatments in five years or more. The M3 areas presently meet the City of Kamloops fuel management standard and do not require any action for the foreseeable future. These assessments are for present stand conditions as of April 28, 2016. Impacts of further development, human activities, forest pests, disease, windthrow or snow press can significantly change an area in a short time frame, changing its maintenance status and overall wildfire threat.

The continued effort to manage City owned and Crown land will depend largely on continued grant funding from the provincial government for both initial site treatments and maintenance.

Table Ten – Summary of Fuel Management Treatment Units in the City of Kamloops

Treatment Unit Category	Description	Number of Treatment Units	Total Area Ha)
New	Untreated forest land within approximately 200 meters of developed areas.	14	162.3
M1	Previously fuel managed treatment units that require further treatment to meet City of Kamloops fuel management standards.	17	121.3
M2	Previously fuel managed treatment units that will require maintenance in the next five years.	19	212.7
M3	Previously fuel managed treatment units that do not require any treatment for at least five years.	32	447.8
Total		82	944.1

NOTE: The digital data for the shapes and areas of the previously treated FMTUs is from historical records, some of unknown origin or data collection standards. No effort has been made to 'clean up' this data, to resolve private/crown land conflicts or changes in ownership since treatments. This work will be done when these sites are re-treated as part of the City of Kamloops maintenance program.

Table Eleven - Summary of Previously Treated Fuel Management Treatment Units

FMTU #	Location	Area (Ha)	Maintenance Schedule	Last Treatment (Yr)	Type of Treatment	Treated By	Funding Source
1	Rose Hill	0.8	2	2009	Hand	Contract	SWPI
2	Rose Hill	25.2	1	2009	Machine	Contract	SWPI
4	Westsyde	1.4	2	2008	Hand	Contract	SWPI
5	Juniper	29.4	3	2009	Hand	Contract	SWPI
6	Juniper	5.4	3	2009	Hand	Contract	SWPI
7	Westsyde	58.3	2	2008	Machine	Contract	SWPI
8	Barnhartvale	29.7	3	2008	Machine	Contract	SWPI
10	Juniper	0.2	3	2008	Hand	Contract	SWPI
11	Barnhartvale	2.8	2	2007	Hand	Contract	SWPI
13	Barnhartvale	3.4	3	2007	Hand	Contract	SWPI
15	Barnhartvale	21.6	3	2007	Hand	Contract	SWPI
18	Rose Hill	8.2	2	2009	Hand	Contract	SWPI
19	Barnhartvale	29.0	3	2008	Hand	Contract	SWPI
34	Barnhartvale	13.2	3	2009	Hand	Contract	SWPI
36	Pineview	1.3	2	2006/07	Hand	BCWS	BCWS
37	Pineview	7.0	1	2007	Hand	BCWS	BCWS
38	Barnhartvale	19.7	2	2008	Hand	Contract	SWPI
40	Westsyde	6.3	3	2008/09	Hand	Contract	SWPI
42	Westsyde	8.6	2	2008/09	Hand	Contract	SWPI
43	Westsyde	9.6	1	2008/09	Hand	Contract	SWPI
46	Westsyde	14.8	2	2008/09	Hand	Contract	SWPI
47	Juniper	43.4	1	2008	Hand	Contract	SWPI
48	Kenna Park	26.9	3	2009	Hand	Contract	SWPI
49	Kenna Park	19.4	2	2009	Hand	Contract	SWPI
50	Kenna Park	43.7	3	2009	Machine	Contract	Federal
51	Kenna Park	10.9	3	2009	Hand	Contract	SWPI
52	Kenna Park	17.2	3	2009	Hand	Contract	SWPI
53	Hillside Dr	0.7	3	2010	Hand	Contract	SWPI
54	Aberdeen	3.7	3	2008/09	Hand	Contract	SWPI
55	Aberdeen	2.0	3	2008/09	Hand	Contract	SWPI
56	Aberdeen	1.9	3	2008/09	Hand	Contract	SWPI
57	Aberdeen	2.4	1	2008/09	Hand	Contract	SWPI
58	Aberdeen	4.6	1	2008/09	Hand	Contract	SWPI
59	Aberdeen	1.1	1	2008/09	Hand	Contract	SWPI

60	Aberdeen	0.7	1	2008/09	Hand	Contract	SWPI
61	Sahali	5.3	2	2008/09	Hand	Contract	SWPI
62	Sahali	4.0	3	2008/09	Hand	Contract	SWPI
63	Sahali	7.6	2	2008/09	Hand	Contract	SWPI
64	Aberdeen	6.1	2	2008/09	Hand	Contract	SWPI
65	Aberdeen	0.7	1	2008/09	Hand	Contract	SWPI
66	Aberdeen	8.1	1	2008/09	Hand	Contract	SWPI
67	Aberdeen	4.8	3	2008/09	Hand	Contract	SWPI
68	Aberdeen	1.4	1	2008/09	Hand	Contract	SWPI
69	Knutsford	0.9	3	2008/09	Hand	Contract	SWPI
70	Peterson Ck	2.7	3	2009	Hand	Contract	SWPI
71	Peterson Ck	0.2	3	2009	Hand	Contract	SWPI
72	Peterson Ck	16.9	2	2009	Hand	Contract	SWPI
73	Sahali	0.4	2	2009	Hand	Contract	SWPI
74	Sahali	0.6	1	2009	Hand	Contract	SWPI
75	Sahali	3.2	3	2009	Hand	Contract	SWPI
76	Sahali	1.3	3	2009	Hand	Contract	SWPI
77	Sahali	0.3	3	2009	Hand	Contract	SWPI
78	Juniper	0.5	1	2010	Hand	Contract	SWPI
79	Juniper	3.4	2	2010	Hand	Contract	SWPI
80	Kenna Park	142.0	3	2009	Machine	Contract	Federal
82	Rose Hill	11.3	1	2008	Hand	Contract	SWPI
83	Juniper	18.2	3	2005	Hand	Contract	SWPI
84	Barnhartvale	1.7	3	2009	Hand	Contract	SWPI
86	Barnhartvale	10.8	3	2009	Machine	Contract	SWPI
87	Barnhartvale	2.1	3	2009	Hand	Contract	SWPI
88	Barnhartvale	0.6	3	2009	Hand	Contract	SWPI
89	Peterson Ck	0.6	1	2009	Hand	Contract	SWPI
94	Pineview	26.9	2	2006/07	Hand	Contract	BCWS
126	Barnhartvale	3.7	1	2007/08	Machine	Contract	SWPI
99	Kenna Park	9.8	3	2009	Hand	Contract	SWPI
106	Barnhartvale	10.7	2	2008	Hand	Contract	SWPI
130	Juniper	0.1	2	2009	Hand	Contract	SWPI
132	Juniper	0.4	1	2009	Hand	Contract	SWPI
Total		781.8					

Table Twelve - Summary of Untreated Fuel Management Treatment Units

FMTU#	Priority	Location	Area (Ha)
9	2	Iron Mask	11.7
45	3	Westsyde	4.2
93	1	Barnhartvale	29.8
100	11	Barnhartvale	10.6
125	10	Barnhartvale	22.3
115	5	Pineview	9.1
117	4	Pineview	25.9
118	14	Juniper Ridge	13.1
120	6	Kenna Cartwright Park	6.3
121	8	Kenna Cartwright Park	9.3
122	7	Kenna Cartwright Park	8.0
123	9	Juniper Ridge	11.2
131	12	Juniper Ridge	0.1
133	13	Juniper Ridge	0.7
Total			162.3 Ha

9 Wildfire Threat Reduction Maintenance

Fuel management maintenance regimes will vary greatly. The regime will often depend on the condition of the stand before initial treatment, the intensity of the activity carried out and the reaction of the remaining forest stand to the treatment. Properly planned and implemented fuel management activities should improve the overall health and vigour of a stand, making it more resilient and more able to withstand wildfires, moisture deficits, pests and diseases.

Many forest stands are not able to withstand aggressive fuel management treatments and must instead be planned for multiple entries to reach an acceptable standard. For example, very heavily stocked lodgepole pine stands that have grown tall with little diameter growth can be prone to windthrow and snow press when opened up too quickly.

In a healthy stand with no new disease or environmental impacts, spacing and pruning treatments should last a decade or more before further work is required. The amount of will depend on tree species, forest health, mortality in the stand, tree ingress, windthrow or snow press, grass growth and other factors that increase the amount of dead and down forest fuel.



Eight year old spaced, pruned and surface fuel treatment in Kenna Cartwright Park.

10 City of Kamloops Forest Fuel Reduction Guidelines

All sixty-eight past Fuel Management Treatment Units (FMTUs) were assessed as part of the 2016 CWPP update. These areas have been treated from 1997 to 2010 under prescription prepared by forest professionals. The treatments have varied, with three main activities undertaken:

- A. Heavy Equipment dead pine removal through harvesting or pile and burn.
- B. Hand crew removal of dead pine through piling and burning on inaccessible and steep slopes.
- C. Hand crew treatments in multi-layered conifer dominated stands involving danger tree removal, spacing, pruning, surface fuel cleanup, debris piling and open burning.

A majority of the sites were completed by hand crews. The stand response has varied widely. In general, the following responses have been noted.

- 1. The conifer regeneration response is strongest on north and west facing slopes and in water catchment areas in largely clearcut areas, those where the mature pine were all removed due to mortality from the pine beetle epidemic.
- 2. The regeneration response is least in the Douglas-fir stands with 20-40% canopy retention.

- 3. The response of Saskatoon (Amelanchier alnifolia) has been significant wherever it was present before fuel treatments. It has come dominate many stands, especially underneath partial retention Douglas-fir stands.
- 4. The stands offering the best biodiversity, wildlife habitat and stand resilience are those where all available trees species and size classes were maintained during the fuel management treatment.
- 5. The large coarse woody debris left behind has decayed significantly in the last five or more years since treatment.
- 6. A majority of the dead Ponderosa Pine wildlife trees left behind for habitat have fallen over. Tree failure is highest where the trees are in the open, without the benefit of other trees to reduce the wind impacts. Most of the remaining standing dead trees were dead before the pine beetle infestation. These trees stand far longer than those killed by pine beetles.

The City of Kamloops will attempt to complete fuel management treatments on all crown and municipal lands within the city boundary, as identified in this report, to the following guidelines, within the next decade.

- Two hundred meter buffer of all structures where high wildfire behaviour threat polygons are identified. This applies to suitable City owned of Crown land only. Private land is not to be directly managed under this CWPP. The wildfire threat will be reduced from high or extreme to a moderate standard based on the WUI wildfire behaviour threat assessment worksheet as recommended by the BCWS. The worksheet can be found at http://www.ubcm.ca/assets/Funding~Programs/LGPS/SWPI/Resources/swpi-WUI-WTA-worksheet-2012-Update.pdf
- 2. All treatments will be conducted by hand crews immediately adjacent to homes and structures unless high tree mortality or other safety reasons determined that mechanized equipment should be utilized.
- 3. Fuel management activities will be limited the treatment of conifers and dead deciduous trees and brush. Live deciduous trees and brush will only be removed for access and to manage for worker and fire fighter safety.
- 4. All fuel management treatments will respect biodiversity and stand resilience by maintaining a component of all the available tree and shrub species.
- 5. All fuel management work will respect wildlife habitat by retaining high value wildlife trees, coarse woody debris and degrees of visual and thermal cover where safe and prudent to do so.
- 6. All fuel management work involve live tree spacing activities up to a maximum of 17.5 cm at dbh unless there is a site specific forest health or wildfire hazard issue that requires a more aggressive treatment. Where tree removal larger than 17.5 cm (merchantable timber) is being considered, timber harvesting must be considered whenever possible.
- 7. Pruning activities will be limited to conifers in excess of two meters tall.

 Pruning will include all live and dead branches to a maximum of 50% of the

- tree's height or three meters clear of the surface fuels, whichever is lowest. Pruning stub length to be a maximum of one centimeter in length.
- 8. Surface fuel clean up includes dead felled trees to a maximum of 15 cm in diameter unless high surface fuel loads required additional debris removal. Removal of all surface fuels from spacing activities and at least 95% of the pruned branches down to 1 cm in diameter. Surface fuel removal to be completed by the most cost effective method available. This debris is usually burned on site, but can include removal and chipping or hauling away. Chipping and spreading is not a preferred treatment.
- 9. Coarse woody debris to be cut to lie in close proximity to the ground, with supporting limbs intact on slopes for stability. Vertical and horizontal branches removed and at least five meters apart whenever possible. Coarse woody debris fuel load not to exceed 15 Tonnes per hectare unless removal is dangerous to workers or not practical.
- 10. All fuel management activities are to respect water values in the gullies through Aberdeen and Sahali.

11 Wildfire Threat Reduction Options

Reducing the wildfire threat to existing communities, homes, and to future developments can be a very complex planning process. All plans or prescriptions for wildfire threat reduction must be site specific, aesthetically pleasing, economically feasible and environmentally sensitive.

The objective of wildfire threat reduction efforts should not be to stop all fires, which is not realistic or achievable. The objectives should be:

- to alter wildfire behaviour on the forested land adjacent to developments, through forest fuel management, to greatly reduce the potential for house and structure losses.
- to create safe access for wildland fire crews to more efficiently and effectively control wildfires, and
- to construct and maintain houses that are designed to withstand a wildfire.

Building construction materials and design are outside the scope of this report but are discussed in detail in the Fire Smart manual, Chapter 3. Improving structure survivability through forest fuel management has two key components; one, separating the structures from the forest with Fire Smart landscaping, and two, reducing or modifying the forest fuels in the surrounding forest to reduce the wildfire behaviour.

Table Thirteen - Recommended Wildfire Hazard Reduction Guidelines for Each Wildfire Hazard Class

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Wildfire Behaviour Threat Class ¹	Forest Fuel Description ²	Wildfire Behaviour	Maximum Fire Intensity Rank	Wildfire Threat Reduction Requirements ³
Low	None	Smoldering	1	None
Moderate	Grass/Sage, fuel reduced forested areas, Deciduous forest - Surface Fuels Only	Surface Fires	2 - 3	Priority Zone 1 and 2 (as required)
High	Conifers dominated stands and Surface Fuels	Candling/Crown Fires	4 – 5	Priority Zone 1 and 2 and 3 (as required)
Extreme	Continuous, Dense Conifers and Surface Fuels	Aggressive Crown Fires	4 - 6	Priority Zone 1, 2 and 3 (as required)

- 1 Wildfire Hazard Class for Priority Zone 2 from Fire Smart
- 2 See full definitions for each Priority Zone 2 Hazard Class
- 3 Priority Zones from Fire Smart

Landowner awareness and buy-in are the only options for reducing the wildfire hazard to their own property. Fire Smart information needs to be distributed to the private landowners in established developments with unacceptably high wildfire threat..

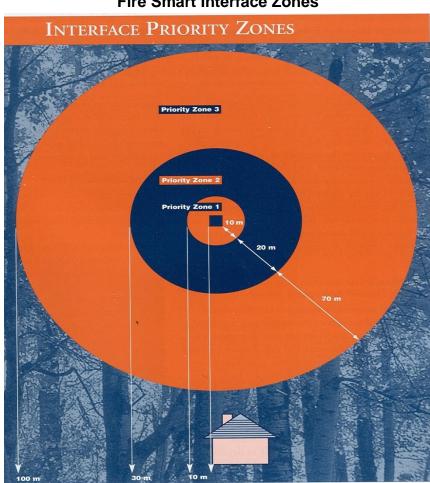
The City of Kamloops needs to ensure any new developments or subdivisions are not established without adequate wildfire threat reduction efforts put in place <u>before</u> construction begins. By ensuring the new developments are adequately planned and managed to reduce the wildfire hazard to acceptable levels, many of the present problem areas will have their wildfire threats reduced.

12 Fire Smart Landscaping

Separating homes and other structures from the forest environment involves establishing Fire Smart landscaping around the structure so a wildfire cannot spread directly up to the structure. Direct radiant and convective heat can ignite structures. Creating a barrier between the structure and the combustible material will greatly increase structure survivability in the event of a local wildfire. Fire Smart landscaping can include a wide variety of plants and surface covers, as long as they do not support combustion. Fire Smart landscaping is referred to as Priority Zone One in the Fire Smart manual and is discussed in detail in Chapter 3 of that publication.

A minimum of 10 meters of Fire Smart landscaping from the structure to unmanaged forested land is recommended. This distance should be increased with increasing slopes and the extent of the wildfire threat in the adjacent forest. For example, a 10 meter buffer would likely be sufficient on flat ground adjacent to an unmanaged field of matted grass. The distance should be increased greatly, or combined with other treatments in an area of continuous, dense, tall coniferous trees on a steep (greater than 20%) slope. Fire Smart landscaping alone is suitable for structures adjacent to Low and Moderate (relatively flat ground) Wildfire Behaviour Threat Class areas as identified on the maps attached to this report.

Fire Smart landscaping alone is not enough to increase house survivability in the areas identified as high and extreme wildfire behaviour threat class areas in this report. The high and extreme wildfire behaviour threat class areas will need much wider Fire Smart landscaping or some other type of forest fuel modification on the adjacent forest lands.



Fire Smart Interface Zones

13 Forest Fuel Modification

Wildfire behaviour is based on three factors.

- 1. Forest Fuel the woody material available to burn, configuration and continuity
- 2. Weather daytime temperature, the amount of drying and wind
- 3. Topography the lay of the land, slope, aspect and terrain

Of these three factors, only the forest fuels are within our control. Reducing the volume and continuity of the forest fuels can reduce the intensity, maximum behaviour and the rate of spread of a wildfire, thus reducing the wildfire threat. The objectives for forest fuel management should be:

- a) Reducing the crown fire potential,
- b) Reducing the surface fire intensity,
- c) Improving wildland fire suppression opportunities through better access, better site lines and fewer danger trees,
- d) Maintaining bio-diversity and wildlife habitat, and
- e) Minimizing site impacts during fuel management activities.

Other important benefits include better firefighter safety and greater effectiveness of aerial wildfire suppression resources.

There are two basic approaches to wildfire threat reduction or forest fuel management. The chosen method will depend on numerous site-specific factors.

13.1 Timber Harvesting/Mechanical Fuel Management Treatments

Timber harvesting in interface areas can be a very effective management tool. In large areas of commercially viable forest, a form of timber harvesting to remove a portion of the stand is the most logical option. The wildfire threat reduction work can be self-funding and a valuable resource gets properly utilized. The intensity and method of harvesting will depend on the topography, trees species, forest health, degree of wildfire threat, community acceptance and a variety of other site-specific factors. Clearcut harvesting, while usually not a very popular option for any community, may be the only solution in pure pine or spruce forest stands decimated by bark beetles.

Where necessary, a form of partial or selective harvesting is better accepted. Removal of targeted tree species, based on forest health, wind firmness, diameter limits and a wide assortment of other factors is a common practice. Harvesting for fuel management, or wildfire threat reduction, is significantly different from conventional commercial harvesting. The emphasis should be directed towards the final product left behind in the forest, not necessarily the timber removed from the site. This can result in additional costs.



Dead Pine removal in Barnhartvale (FMTU 8) in 2007.

13.2 Hand Crew Forest Fuel Management

In immature, inaccessible, sensitive and small patches of forestland where harvesting is not an option, wildfire threat reduction efforts can be completed without timber extraction. Treatments can be carried out by hand, with equipment or a combination of the two. These treatments are rarely self-funded and require a funding source for completion. Treatments can vary in cost from \$2800 to \$7000 per hectare.

Reducing the amount and configuration of the forest fuels consists of four basic activities.

a. Danger Tree Removal

Dead and dangerous trees that will add significantly to the future surface fuel loading should be targeted for removal. Dead trees that can reach private land or access roads must be removed before fuel management activities commence. Retention of high value wildlife trees must be considered.

b. Spacing or Thinning

Spacing, thinning or tree removal involves the reduction of the number of stems and associated branches and needles within the forest canopy. There are a number of different techniques. The spacing treatment necessary is dependent on many factors including; tree species, forest health, age of the stand, stand structure and other factors. Spacing treatments must be designed on a site-specific basis. In some cases, small scale forest harvesting may be the best method to space the area and cover the costs of the treatment. Any forest harvesting in interface areas must be well planned and supervised.

Spacing activities in multi-layered stands involves the removal of the weakest trees on site. These trees have usually been outcompeted, damaged or suffered forest health issues and are falling out of the stand. Caution must be taken to ensure the multi-aged characteristics of the stand are maintained. This is often referred to as 'spacing from below', or forest health style spacing. This usually increases the crown base height and creates a healthier, more vigorous forest. In relatively even aged stands, spacing the trees so the crowns are separated by a set average distance is a reasonable treatment option. This inter-crown distance should be increased on slopes. This spacing distance is also dependent on crown base height and the amount of surface fuel remaining after the site treatment.

c. Pruning

Pruning involves the removal of the lower live and dead branches of coniferous tree species to separate the crown fuels from the surface fuels. By raising the Crown Base Height (CBH) within the stand, it will be more difficult for a surface fire to spread upwards into the tree canopy where it will spread quickly, greatly increase the wildfire intensity and create ember showers, or spotting, onto adjacent structures. The required height of the pruning is variable depending on; canopy closure, tree species, topography and amount of surface fuels remaining after the site treatment.

One commonly used convention for pruning is a three meter crown base height. This is based as much on the crew's reach as on crown fire initiation concerns. Again, there is no one prescription to manage all situations. Pruning must take into account the tree height and amount of live crown. The tree must be left a certain portion of its live crown to remain healthy and vigorous.

d. Surface Fuel Reduction

Surface fuel reduction involves the removal, chipping or burning of the accumulated felled, spaced and pruned material, and sometimes additional downed and dead material that will contribute to wildfire spread. Removal of the fine (small diameter) fuels is the priority as these fuels dry out quickly, ignite easily and are the main contributor to surface fire spread on most sites.

Surface fuel treatments are often considered the most important component of any fuel modification activities and the most expensive. Overly aggressive surface fuel clean up can cause serious environmental impacts including erosion, introduction of noxious weeds and loss of wildlife habitat.

These techniques should be employed on the forested land adjacent to homes or new developments in all High and Extreme wildfire behaviour threat class areas to reduce the wildfire threat to Moderate or below.

No one prescription will solve all wildfire threat problems. All prescriptions must be site specific and developed by an experienced individual.

14 Other Factors to Consider When Conducting Fuel Management

The 'All Things Considered' approach is necessary when conducting any forest management activity. Fuel management is no exception. Fuel management plans and prescriptions must address other forest values that could be impacted by the planned treatments. The other values include; visuals, water, wildlife habitat, site stability, noxious weeds, access, biodiversity, Old Growth Management Areas and endangered species.



A widely spaced and pruned forest will not support crown fires.

15 Implications of Wildfire Threat Reduction Work

Reducing wildfire threats through the reduction of the forest fuels sounds simple enough, but forest fuel treatments can have a wide range of implications. Fuel treatments can have both positive and negative effects on wildfire threats.

Mechanized timber harvesting as a stand alone treatment can be very effective in reducing crown fires but usually results in a significant increase in finer surface fuels composed of needles, limbs and tops. This surface debris can increase surface fire intensity.

Hand crew treatments of dead and danger tree removal, spacing, pruning and surface fuel removal techniques can create lower fuel loaded, more open forest stand. Open forest stands;

- allow more light to reach the surface, often drying out the site or allowing more grass, herb and shrub growth, creating heavier, more continuous surface fuels
- can lengthen the fire season on the site by allowing the site to dry up faster and stay dry longer,
- allow more wind to move through the stand and along the surface, possibly increasing the rate of spread of surface fires, and
- often have lower relative humidity in the summer months from the increased sunlight and temperatures.

The positive effects of wildfire threat reduction through forest fuel reduction include;

- lower probability of crown fires due to the more open forest canopy and higher crown base height,
- lower intensity surface fires from the reduced forest fuels,
- easier and safer access for wildland firefighters, and
- more effective aerial fire control efforts with air tankers.

In general, properly planned and implemented forest fuel reduction work reduces the crown fire potential and overall intensity of wildfires within the treatment area. This will increase the survivability of the trees in the stand and of adjacent homes and structures. Forest fuel reduction work can also increase the dryness on the site, and allow more wind to reach the surface, creating conditions for fast moving, low intensity wildfires to spread.

16 Effectiveness of Hand Fuel Management Treatments

Hand crew treatments is usually the preferred fuel management option, compared to mechanized harvesting and treatments, immediately adjacent to structures because of;

- Better visuals and aesthetics.
- Limited impact on recreational opportunities and established trails,
- Less overall site impacts and soil disturbance, minimizing noxious weed potential impacts, and
- Better protection of wildlife habitat, biodiversity and water resources.

Hand crew completed fuel management treatments usually consist of a combination of danger tree removal, spacing, pruning and surface fuel removal, at varying intensities. The main forest canopy is often kept in place. Much of the work on Crown land is often restricted by merchantable timber utilization standards, where only live trees below the utilization standards can be cut and removed.

This type of treatment can be very effective for small fires that start in the community or within the treatment area. Good visuals, reduced danger trees and ladder fuels can allow safe, fast, aggressive wildfire suppression action within the managed area. Initial attack success can be far higher under these circumstances. Hand crew treatments can be less effective in a landscape level wildfire event that sweeps into the treatment area from the unmanaged forestland. A well developed Rank 5 or 6 wildfire (continuous crown fire) that spreads into a hand treatment area surrounding a community, may easily spread quickly and aggressively through all or a portion of the hand treated fuel management treatment area, providing only minimal safety to the community. The aggressiveness of the treatment will also need to determine the width of the treatment. A lower intensity treatment will have to be wider than a more aggressive treatment to be as effective.

Hand crew fuel management treatments are most effective when supported by forest harvesting along the treatment area perimeter. If the harvesting can reduce the wildfire intensity significantly before the wildfire enters the hand treatment areas, the effectiveness of the hand treatments is significantly increased.

17 Resource Issues and Operational Constraints

The City recommended fuel management treatments are all suggested as hand crew work, supported where possible by smaller pieces of heavy equipment. A

combination of danger tree removal, spacing and pruning of the remaining stand, plus debris disposal is required to reduce the crown fire threshold and improve wildfire suppression access. Most areas are recommended for hand treatments only because the areas selected for treatment are all within highly visual, high use recreation areas. Many sites are relatively steep or located in riparian areas or narrow greenbelts. These sites require sensitive treatments that can only be carried out by hand crews.

18 Higher Level Plans

This area is included within the Kamloops Land and Resource Management Plan (LRMP). This document does not directly address forest fuel management or have significant discussions on wildfires. The LRMP has been reviewed when developing this CWPP and there does not appear to be any conflicts between the stated objectives of the LRMP and properly prescribed and implemented fuel management projects.

The Kamloops LRMP does address Old Growth Management Areas (OGMA's) and Ungulate Winter Range. The fuel management treatment units identified in this document may overlap with local OGMAs but do not impact on the key OGMA attributes on which the areas are based. There is no conflict between the established winter range and the fuel management projects. The planning work to date identifies improvements for winter range within the fuel managed areas.

19 Partnership Contact List

The following individuals and organizations can be very useful in pursuing funding and land use approvals.

Table Fourteen - Partnership List

Table Fourteen - Faither ship List									
Name	Organization	Title	Phone #						
Kirsten Wourms	City of Kamloops	Nature Park Crew Leader	250 214-5501						
Ryan Strank	City of Kamloops	GIS Technician							
Mike Aldred	Ministry of Forests, Lands and Natural Resource Operations – B.C. Wildfire Service	Kamloops Fire Center – Fuel Management Specialist	250-554-5500						

Les Leduc	Ministry of Forests, Lands and Natural Resource Operations – B.C. Wildfire Service	Kamloops Fire Zone Fuel Management Specialist	250-554-5500	
Hugh Murdoch	Ministry of Forests, Lands and Natural Resource Operations – B.C. Wildfire Service	Kamloops Fire Zone Manager	250-554-5500	
Peter Hisch	Ministry of Forests, Lands and Natural Resource Operations - B.C. Wildfire Service	Provincial Fuel Management Specialist	250-426-1773	
Peter Ronald	Union of B.C. Municipalities – Victoria	Programs Officer	250-356-5134	
Bill Ashman	Ministry of Forests, Lands and Natural Resource Operations	Thompson Rivers District - Tenures Forester	250 371-5500	

20 Municipal Council Support

The City of Kamloops council has given its full support to the Forest Fuel Management Program and wildfire threat reduction efforts. Direct threats to the community in 2003 and 2009 have brought the concern of wildfire to the forefront, and the council will continue to support threat reduction efforts.

21 Cultural Heritage Values and Overview

The City of Kamloops completed a city wide Preliminary Field Reconnaissance (PFR) project with the Tk'emlups Indian Band in 2009. This was meant to identify any high value or sensitive cultural values on the crown lands surrounding the city that would be impacted by fuel management treatments. Although nothing specific was located, there will be ongoing consultation with the TIB for future fuel management projects.

22 Discussion of Funding Opportunities

As of the April 2016 creation of this Community Wildfire Protection Plan, there is only one program available to cover the costs of fuel management projects on Crown lands.

Strategic Wildfire Prevention Initiative (SWPI) program

The UBCM distributes fuel management funding provided by the B.C. Wildfire Service to Regional Districts, Municipalities and First Nations on a first come first serve basis to plan and implement fuel management projects.

The UBCM requires that a Community Wildfire Protection Plan be completed before operational funding is provided. This ensures that the entire community area is assessed and the highest priority projects are completed first. The First Nations Emergency Services Society (FNESS) is involved in distributing the funds to First Nations on UBCM's behalf. This is provincial funding that must be spent on Crown land.

Strategic Wildfire Prevention Initiative (SWPI) program guidelines for current and past years can be found at http://www.ubcm.ca/EN/main/funding/lgps/strategic-wildfire-prevention.html

23 Landscape Level Forest Fuel Management

Landscape level fuel management activities are largely beyond the scope of this report. The City of Kamloops is focusing on the perimeter fuel management treatments that directly impact on the structures and developments within the City boundaries. No treatments are being carried out outside the City boundaries or for more general landscape level purposes. This is not seen as their jurisdiction or responsibility. The younger timber types in the clearcuts and partial cut systems designed for a landscape level fuel break are less flammable with less bio-mass for combustion and do not pose a significant a wildfire threat as continuous mature conifer stands.

Landscape level fuel management activities include a combination of:

- a. clearcut or selective harvesting treatments with close attention paid to windfirmness of the retained trees,
- b. appreciation for visual quality objectives in the Kamloops area,
- c. fuel management considerations for slash and coarse woody debris retention in the harvested areas.
- d. An accessible road system with wide right-of-ways to act as fuel breaks,
- e. identified and developed water resources for wildfire suppression, and
- f. aggressive fuel management around communities and culturally significant sites.

24 City of Kamloops Capacity/Experience

The City of Kamloops has over twenty years of fuel management efforts supervised and administered by city staff. Their parks department directly manages the fuel management program through local consultants and contractors. The Kamloops Fire and Rescue are involved with site selection and the Fire Smart program. They have bush trucks and gear and regularly conduct cross-over training with the BC Wildfire Service local crews and staff.

There is the B.C. Wildfire Service Branch Office, Air Operations, Fire Center and Fire Zone located at the Kamloops Airport. Initial Attack crews, Unit Crews, wildfire management staff and Air Tankers are all available during the wildfire season.

25 Relevant Legislation and Local Government By-Laws and Policies

City of Kamloops Fire Prevention By-Law 10-37 covers open burning and permitting. Kamloops Fire and Rescue (KFR) provides mandatory permits for all open fires. They are limited to properties on 0.4 hectares or bigger and are for the burning of yard waste only during daylight hours. Land clearing and burning permits are also issued by the KFR. The permit system provides that people are responsible for their fire, must be constantly monitored by a competent person and any other obligations the Fire Chief deems necessary.

26 Recommendations/Action Items

The following recommendations are actions items for the City of Kamloops to continue their fuel management program to reduce the wildfire threat to the structures and recreational areas within the City.

- 1 Continue to support fuel management activities designed to reduce the wildfire threats to the forests and structures within the City of Kamloops.
- 2 Pursue all possible funding options to complete the recommended fuel management treatments.
- 3 Continue the prescribed fire program within the City boundaries to reduce surface fuels and fuel continuity.
- 4 Complete fuel management activities on all identified new Fuel Management Treatment Units identified in this CWPP in the next five years, subject to available funding.

- Initiate a FMTU maintenance program to ensure all past treatment areas continue to meet a reasonable standard.
- 6 Conduct all fuel management activities considering climate change and the implications on biodiversity and forest health in the Kamloops area.
- 7 Ensure local building design requirements address Fire Smart principles specifically in terms of using non-combustible exterior materials, establishing adequate building setbacks from the adjacent forested lands, and ensuring Fire Smart Priority Zone 1 areas are non-combustible.
- 8 Strive to become a recognized Fire Smart Community through the national Fire Smart program that will bring attention to the issue of wildfire prevention while encouraging all business and property owners to reduce the wildfire potential in and around the community.

27 Summary

The City of Kamloops (the City) is located in some of the driest ecosystems within the province of B.C. and all of Canada. These fire dependent ecosystems experience long, dry summers with regular drought conditions which are conducive for wildfire ignition and spread. The size and shape of the developed parts of the City result in extensive wildland/urban interface (the interface) between residential houses and forest or grasslands. The City of Kamloops has conducted wildfire threat reduction work on City owned and B.C. Crown land since 1987. An annual wildfire threat reduction program was initiated by the City in 1994. These efforts were accelerated in the mid-2000s due to a pine beetle epidemic that caused mortality in over 90% of the mature ponderosa pine trees within the City limits. The City has identified over 4200 houses directly adjacent to forests or grassland within its boundaries. The more rural subdivisions typically have more structures prone to wildfires.

Long term wildfire threats exist throughout the City. The houses on the western edge of Peterson Creek and within the Rose Hill subdivision face the most serious long term threats. The other main areas of concern include Barnhartvale, Juniper Ridge, Heffley and Pineview. The intention of the City of Kamloops fuel management program is to retain all interface areas within the City in a moderate or low wildfire threat class for the long term. Fuel management treatments are targeted for 200 meters in width when appropriate. The City has completed over 780 hectares of fuel management treatment area on sixty-eight unique sites. Some areas have been treated three times. Another fourteen sites, covering 162 hectares, are still requiring their first treatment. Not all private land within interface areas meet a moderate wildfire threat standard. Private

land with a high wildfire threat rating adjacent to houses can be found in Barnhartvale, Juniper Ridge, Rose Hill, Pineview and Heffley.

The maintenance requirements on the forest and grasslands within the City of Kamloops will depend on further developments in the area, tree species, forest health, mortality in the stand, conifer ingress/regeneration, grass growth and other factors that increase the amount of dead and down forest fuel, coniferous canopy closure or reduced fire suppression crew safe access. Of the sixty-eight past treatment areas, seventeen are requiring maintenance work in the next five years to retain the moderate threat class. As forest stands re-establish themselves after the pine beetle infestation, bio-mass and the associated wildfire threats are expected to increase incrementally each year unless regular, site specific fuel management treatments are continued.

Appendix A Biogeoclimatic Zone Brochures

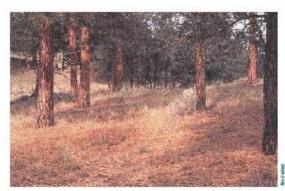


Location

The Ponderosa Pine Zone is located at low elevations along the very dry valleys of British Columbia's southern interior. The zone occupies a narrow band along the bottoms

and lower side walls of a number of major river valleys, including the Fraser (in the Lytton-Lillooet area), lower Thompson, Nicola, Similkameen, and lower Kettle. It also occurs in areas adjacent to Okanagan Lake and in southeastern British Columbia near Cranbrook and Lake Kookanusa. The Ponderosa Pine Zone extends south into the United States where it is much more widespread than in Canada.





Ponderosa pine stand

Ecosystems

The vegetation in this zone often consists of a mosaic of forests and grassland. Ponderosa pine, which dominates most forests in this zone, is also called yellow pine and is best known for its characteristic vanillascented, cinnamon-coloured bark made up of jigsawpuzzle-shaped scales. The thick bark helps make

the tree resistant to surface fires. Stands are often open and park-like, with a ponderosa pine



canopy and an understory of bluebunch wheatgrass, rough fescue, and arrow-leaved balsamroot. Other dominant species in this landscape include saskatoon, pasture sage, lemonweed, and yarrow. Tree regeneration, in natural conditions, is uncommon in the understory, and there are few, if any, shrubs, Additional plant species can include silky lupine, orange arnica, rosy pussytoes, Rocky Mountain fescue, Idaho fescue, slender hawksbeard, timber



milk-vetch, junegrass, and cheatgrass.

The Ponderosa Pine Zone is the driest of the forested zones in British Columbia, and in summer it is also one of the warmest. In July, mean temperatures range from 17 to 22° C. The low pre-cipitation of 250-450 mm per year is a result of the strong rainshadow cast over this area by the Coast and Purcell Mountains. Most precipitation falls in winter, with December and January being the wettest months. Winters are cool, with a light, intermittent snow cover. The snowpack varies from 0 to up to 50 cm and may come and go throughout the winter. The growing season is relatively long, with a continuous frost-free period of 125-175 days. This makes the area suitable for agricultural purposes, provided there is water for irrigation.



Due to cutting and fire suppression, many sites that previously supported open stands now contain dense young thickets or, alternatively, grasslands on sites where regeneration of trees has been poor.

Dry grasslands, or shrub-steppes, occur on gently sloping, extremely dry sites throughout the zone and often extend into the lower-elevation

Bunchgrass Zone. Shrubs, like big sagebrush or rabbit-brush, are found in combination with bluebunch wheatgrass, pasture sage, yarrow, and fescues on grasslands that are in good condition. On heavily grazed sites, big sagebrush or rabbit-brush increase in abundance and other species like, bluegrasses, cheatgrass, and knapweed

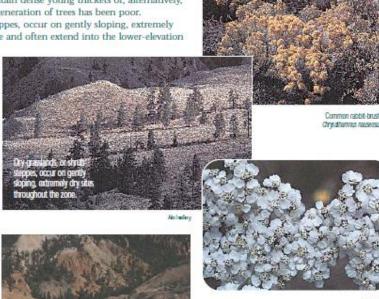
The driest forested sites in this zone are found on south-facing rocky out-

are found.

crops and steep escarpments. Here ponderosa pine dominates the open forest canopy, and herbs include yarrow, compact selaginella, and red three-awn. On drier sites in the northern part of the zone, Douglas-fir occurs as a minor species mixed with the ponderosa pine.

Dense stands of Douglas-fir grow on moist sites such as gullies, draws, and streambanks, and on steep northerly aspects. Throughout the zone, trembling aspen is a common species in dense stands on sites kept wet by seepage. Water-loving black cottonwood is the main species on floodplains. The shrubby understory includes water birch, along with common snowberry, roses, red-osier dogwood, Douglas

maple, and tall Oregon-grape.



Achtea militiolum



Fire History



As a result of lightning strikes and a general lack of moisture in this zone, wildfires occur here perhaps as often as every 15-25 years. Because of their frequency, fires have played an important role in the ecology of this zone. Mature ponderosa pine trees have a thick bark and a self-pruning habit that prevents most fires from spreading upward to the crown. However, as fires speed through the understory, they burn off grasses and new growth, leaving behind a relatively bare forest floor and restricting regeneration of new trees. Historically, this pattern resulted in a mosaic of grasslands and open stands of pine. In recent times, as a result of fire suppression, dense stands of pines have replaced some of the more open stands, as well as some grasslands. These dense stands contain "ladder" fuels that will result in hotter and more abundant crown fires in the future. Because there is much housing in the Ponderosa Pine Zone, many private residences are at risk from wildfires or fires caused by humans.



wetlands of this zone. Some species of wildlife benefit from the change in vegetation associated with agriculture: for example, the covote. American Kestrel Western Bluebird. and Lewis Woodpecker. Non-native bird species, such as California Quail, Ring-necked Pheasant, and European Starling. occur here as a result of direct or indirect introductions from elsewhere.

Endangered Species

Rugged cliffs and talus slopes provide breeding habitat for rare bat species such as spotted bat and pallid bat, as well as less abundant birds and reptiles such as

Carryon Wren and western rattlesnake.

Threatened species in this zone include Townsend's big-eared bat, fringed myotis, western small-footed myotis, western long-eared myotis, Flammulated Owl, Common Poorwill, Burrowing Owl, tiger salamander, Anatum Peregrine Falcon, White-headed Woodpecker, and White-throated Swift. Several species, including Sage Grouse, white-tailed jackrabbit, short-horned lizard, and Nuttaff's cottontail, once occurred in this zone but are now considered extirpated in British Columbia.



Although wetlands and ponds are not a common feature in the dry Ponderosa Pine Zone, alkaline ponds can occur in depressions or basins with restricted drainage. These ponds, which dry out by the end of summer, are fringed by wetlands that contain several kinds of plants, including alkali saltgrass, rushes, and bulnishes. Wetlands such as these, even when they are limited in extent, represent the greatest source of key habitat for many rare and endangered species. Because water is so scarce in the zone, even small amounts are important to the survival of many wildlife species.



Alkatine pond

Resources

Although the Ponderosa Pine Zone has many forested areas, the productivity of ponderosa pine and Douglas-fir is poor on most sites. Because of the prominence of grasslands, cattle grazing is the primary form of agriculture in this zone. The ponderosa Pine and Bunchgrass zones are particularily important for early spring range for cattle.

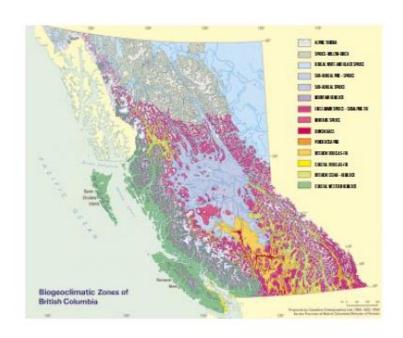
Most flat areas are irrigated for the production of hay. In the Okanagan Valley, irrigation also makes orchards and vineyards possible in some areas. Much of the Ponderosa Pine Zone occupies slopes that are too steep for agricultural purposes. However, because of their ideal climate and viewscapes, these same sites provide excellent locations for housing.



Landscapes in lower Deadman River Valley

Recreational uses include hiking, cycling, horseback riding, nature study, hunting, fishing, and dirt bike riding. The larger lakes and their beaches are significant tourist attractions. Some recreational activities such as the use of all-terrain vehicles and mountain bikes, which have become quite common in this zone, can present environmental hazards. These activities often bring in weed seed. They also compact the soil surface and make it more

susceptable to erosion. Because of the competing demands of agriculture, forestry, urban and industrial development, recreation, biodiversity, and wildlife habitat, land-use conflicts are common in the Ponderosa Pine Zone. Integrated land-use planning can be an important tool for resolving these conflicts.



he Ponderosa Pine Zone is one of fourteen biogeoclimatic or ecological zones within British Columbia. These zones are large geographic areas that share a similar climate within the province. Brochures in this series explore each zone.



For further information contact:

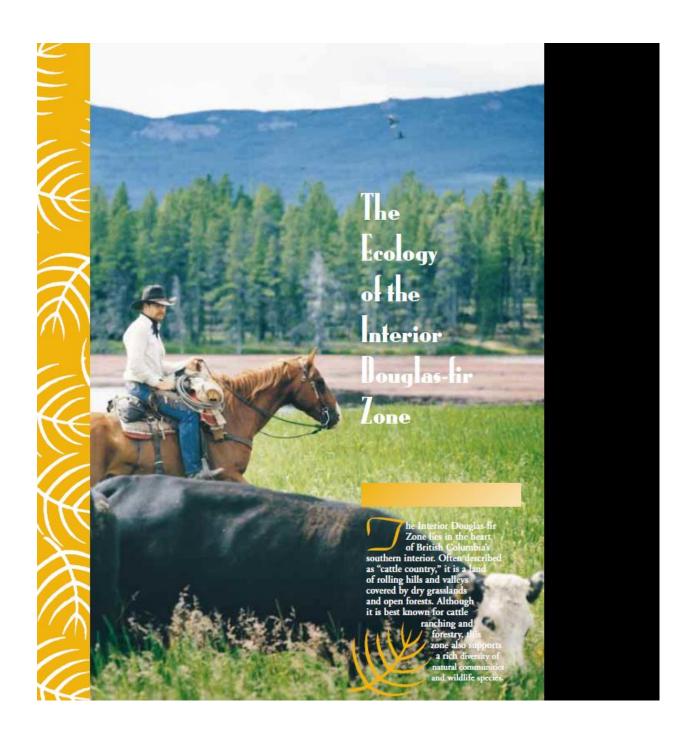
B.C. Ministry of Forests Research Branch P.O. Box 9519 Stn Prov Govt Victoria, B.C. V8W 9C2 Ministry of Forests October 1998

Detail on British Columbia's Biogeoclimatic Zones is available in:

Ecosystems of British Columbia Special Report Series #8 D. Meidinger and J. Pojar Ministry of Forests Research Branch, Victoria, B.C.

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Location

The Interior Douglas-fir Zone spreads across low- to mid-elevations in the east Kootenays, the Okanagan-Similkameen and Thompson region, and southern parts of the Chilcotin and Cariboo. Most of the zone occupies the southern part of the Interior Plateau. To the west, the zone works its way up the leeward slopes of the Coast Mountains. In the east, it covers the southern portion of the Rocky

Mountain Trench. Cranbrook, Vernon, Chase, Princeton, Boston Bar, Clinton, and Williams Lake all lie within the Interior Douglas-fir Zone.

Climate

The Coast, Cascade, and Columbia mountains cast a rainshadow over the Interior Douglasfir Zone. Warm and dry in the short summer season and cool in winter, the climate is driest at lower elevations in the Okanagan-Similkameen, Lytton-Lillooet, Chilcotin, and Kamloops areas and wettest in areas close to the Columbia and southern Coast mountains. The ecology of the area reflects the shortage of moisture in much of this zone. Plants such as pinegrass flourish here because they can survive on little moisture during the growing season.



A diverse and interesting array of ecosystems occurs within the Interior Douglasfir Zone. Forests dominated by Douglas-fir trees of all ages and sizes with a grassy understorey in which pinegrass is most common are typical in this zone. On hotter and drier sites, grassland and open ponderosa pine forest predominate, while dense, closed-canopy spruce forests occur on wetter and cooler sites such as in riparian areas. Lodgepole pine is common at higher elevations or where there has been recent fire.

Extensive grassland communities, commonly called the "upper grasslands," occur throughout drier parts of the zone. Bluebunch wheatgrass, junegrass, and fescues are prominent grasses in these communities. These grasses also occur on very hot and

frembling aspen occurs throughout the zone, especially in younger forests.

dry sites such as upper, south-facing slopes and ridges where ponderosa pine forms open, park-like forests. Wetlands are found in depressions and around open water. Marshes with cattails, sedges, and bulrushes ring the open water with shrubby willows and birches in nearby

swamps. The prominent red stems of red-osier dogwood stand out along stream banks in winter after the leaves have fallen. A unique wetland ecosystem found in this zone consists of saline meadows dominated by saltgrasses.

Fire in the Grass

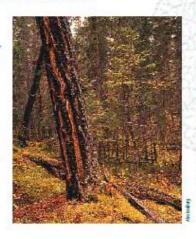
Ecologists believe wildfires have played an important role in maintaining grasslands in the Interior Douglas-fir Zone. Without regular grassfires, trees take root in open grassy areas and, over time, grasslands become overgrown with trees. Frequent grass fires keep the forests at bay by killing most young trees. Today, wildfires are suppressed, and there is evidence that forests are taking over areas once occupied by grasslands.



Wildfire used to be a common occurrence in the zone, especially in drier areas where there is a mosaic of grasslands and open forests:

Fire and Forest Succession

Wildfires have a big influence on forest ecosystems of the Interior Douglas-fir Zone. Ecologists classify forest fires as either low intensity or high intensity, depending on how hot they are and how they affect the forest. In this zone, most forest fires are low intensity—they scorch the forest floor every 10 to 20 years and burn less than 50 hectares. The thick bark on old Douglas-fir trees enables them to survive low-intensity fires, but many young trees and understorey plants are killed. Overtime, repeated low-intensity fires



create a forest made up of Douglasfir trees of many ages—a multi-aged

High-intensity fires occur on average every 150 to 250 years and burn more than 50 hectares at a time. These are stand-destroying fires—they burn not only along the ground but also through the forest canopy, killing most of the young and old trees. Following a high-intensity fire, lodgepole pine is often the first tree to grow back. This pattern results in pure, even-aged pine stands.



W_{ildlife}

Ungulates find prime winter habitat in this zone, with its old Douglas-fir forests, low snowpack, and abundant shrubs such as snowbrush, redstem ceanothus, and snowberry. In winter mule deer find habitat in old forests, particularly those on south-facing slopes. The deer feed on litter fall and find protection from heavy snowfalls under the tree cover. South-aspect forests are also important winter habitat for other ungulates, including white-tailed deer, Rocky Mountain elk, and bighorn sheep.

Rocky Mountain elk Cervus elaphus nelsoni



(iparian Ecosystems

Riparian zones are areas around streams, lakes, and other bodies of water. Characterized by a high water table and nutrient-rich soils, riparian zones often support productive ecosystems and a rich diversity of plants and animals. Water-loving plants, birds, amphibians, and small mammals all thrive in these ecosystems. Larger animals use them for various reasons, such as foraging or giving birth. Because moist and



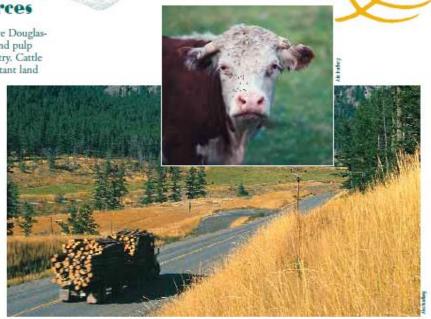
productive riparian areas are limited in dry regions like the Interior Douglas-fir Zone, they are especially important habitat for many species in this zone. Cattle and horses are also attracted to riparian areas and, if not properly managed, can seriously degrade these sensitive ecosystems.

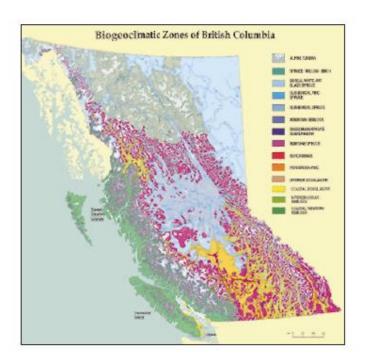


Extensive and productive Douglasfir forests provide saw and pulp logs for the forest industry. Cattle grazing is also an important land

use here. In fact, this zone contains much of the province's forested summer cattle ranges, as well as many spring and fall ranges.

Wintering areas for cattle are common at lower elevations, especially in grasslands. The short growing season limits other agriculture uses. The zone is ideal for a variety of recreational activities, from hiking and fishing to cross country skiing and horseback riding.





he Interior Douglas-fir Zone is just one of the fourteen biogeoclimatic or ecological zones within British Columbia. These zones are large geographic areas that share a similar climate within the province. Brochures in this series explore each zone.





Appendix B

City of Kamloops

Community Wildfire Protection Plan

Wildfire Behaviour Threat Assessment

Worksheets and Pictures

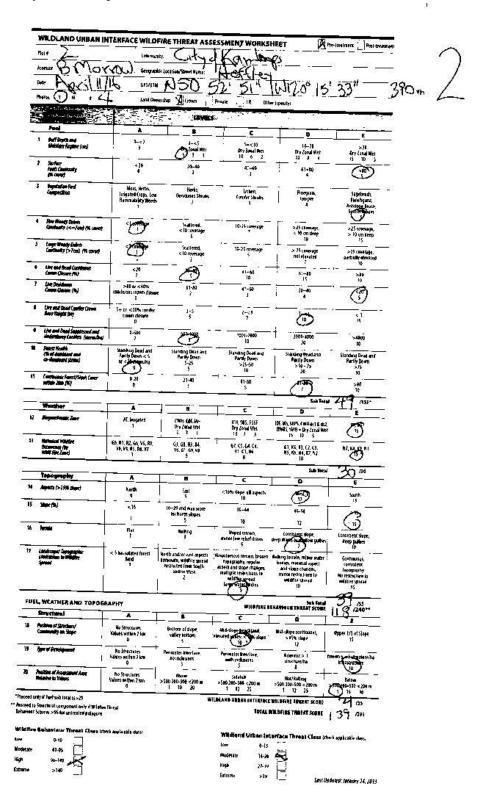
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City of Kamloops – Wildfire Threat Assessment Picture – Plot 1



Photo 1-1 @ 340 degrees



 $City\ of\ Kamloops-Wildfire\ Threat\ Assessment\ Picture-Plot\ 2$



Photo 2-1 @ 90 degrees

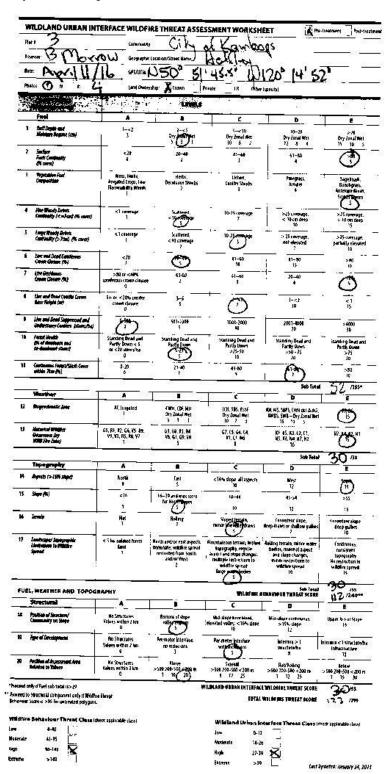
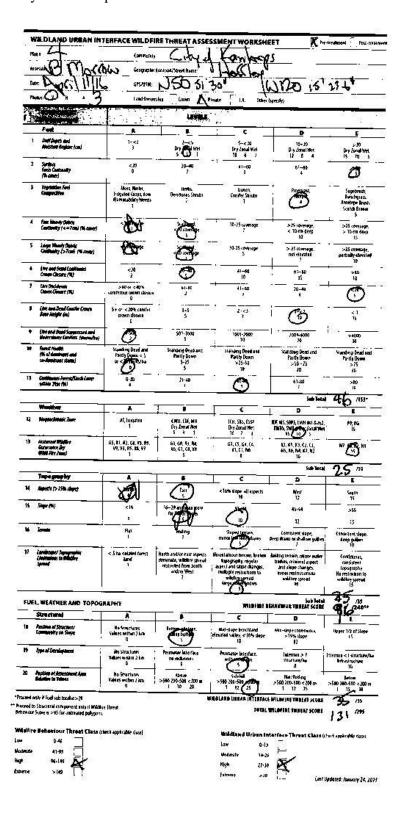




Photo 3-1 @ 315 degrees



 $City\ of\ Kamloops-Wildfire\ Threat\ Assessment\ Picture-Plot\ 4$



Photo 4-1 @ 160 degrees

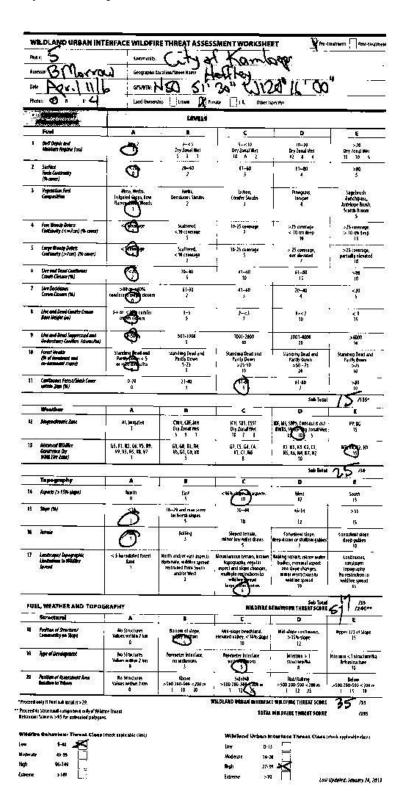
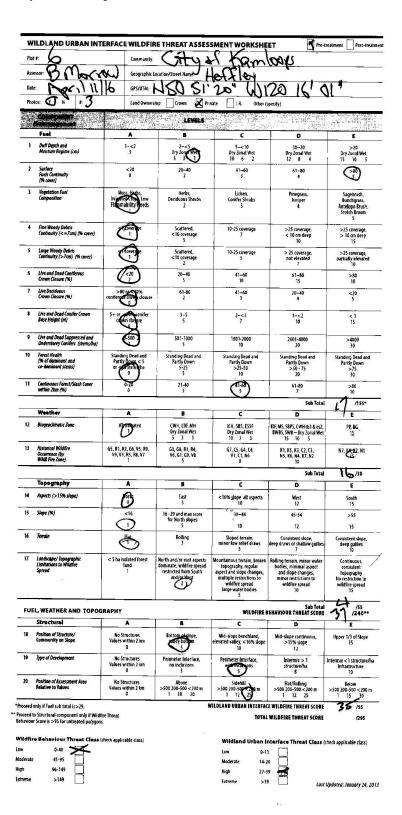




Photo 5-1 @ 180 degrees





$City\ of\ Kamloops-Wildfire\ Threat\ Assessment\ Picture-Plot\ 6$



Photo 6-1 @ 180 degrees

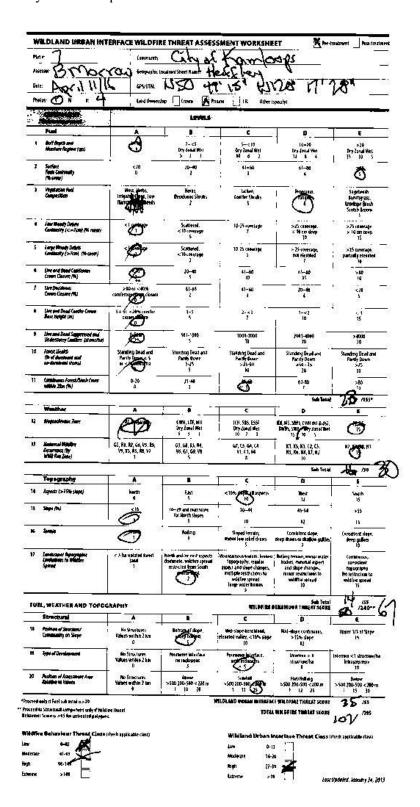




Photo 7-1 @ 315 degrees

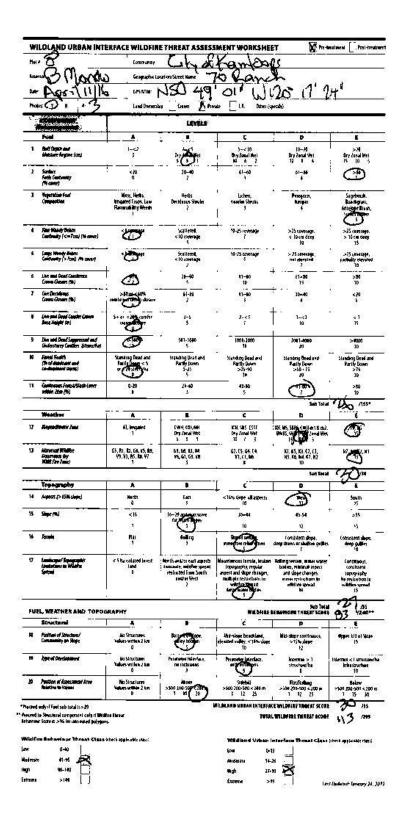






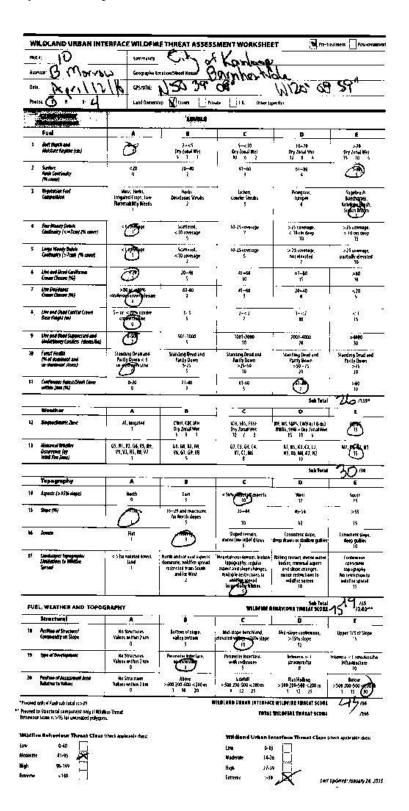
Photo 8-1 @ 180 degrees

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Hal	0:0 1 14	Land Outmob	its _Gent K.h.	water [] I.A. Ombai (sp	iročji	
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2	Surface Fack Continuity (% cover)	<20	2 1 40	41 -50 5	61-80 4	4
3	Regelected Firel Compassion	Moss Merbs, Imaginal Cope, Low Hermalanthy Meeds	Herby, Perinteen Units	Lidlers, Comiter Sarubs }	Pringues, lampar	Sagebrach Benchegels Anticipor Direkt Sageta Brodes
•	Pior Westly Debris Combably (<= Field (% toda)	O	Scattered. v: ID coverage	10-25 coverage	>25 correspo < Pi en desp 10	> 75 rowerage, > 10 pm deep 15
\$	Large Riverty Delets Contituator (> Robet (% saver)	0	5ramed. <10 coerage 1	10-25 coverage 5	> 15 coverage, not element	>35 coverage partially elevated 58
4	ifter and Bood Conference Cream Charges (NG)	(P)	70-41 \	\$1-e)	61-80 15	>10 Y
Į.	ine Pecificas (non Cleare (N)	under Tookisse	01-M2 2	1 60-60 3	20n40 4	-230 -230
ŧ	Live and Dead Courtes Crawn Sace Holghe Broj	Sir to case conder	, F2 2	2-c) 1	1×1/1 H	e1 15
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_	first downers and re-dominant street	Party State (Standing Description Faith Dawn 5-25 5	Manding Dead and Parily Deam > 15-50 10	Yamiling Dead and Partly Strem > 50 - 75 30	Name of the state
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2	Napachaute Ann	AT, Jospined	Colo. CH, MH Dry Zonal West	KH, SBS, FASE Day formal Wen 10 / 3	IDF, M3, 5895, CWH & 1 8-tb 2, IMBS, 9WI — DRy Zonal West 15 10 5	☞
U	Minimum Minimum Generalize (by Minimum Gene)	65, RN, R2, G6, Y5, R9, Y4, T3, R5, RM, Y7	G3, G8, RJ, B4, Vo. 61, G8, VB 5	67, 16, 64, 64 VI, 67, W6 8	K2, N5, K3, C2, C3, N5, K6, 44, N7, N2 10	H2 (15) H1
			<u> </u>		Seb Feed	30"
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	And the second second	+	3401 5	C16% dape all aspects N		South 15
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,	Emidscope/ Topographic Emitgroup to Wildfile Sproot	< Sing rechared finest land b	South settion can agreed dominant, settine speed restricted here booth audion West	Neurriamous ferrale, broken Copagnaphy, regular aspect and slope rispages, multiple restrictures to validhing great languages.	Rolling terrain, improvinger bodies, minimal sepect and slege changes, ermor restrictions to whicher spread by	Continuous, consistem inpopulating Herestingum in wildfine sprend is
VE	L, WEATHER AND TOPOG	жарну		WASHIEL	Sub Farai ENAMONE THREAT SCORE	8 2400
•	Position of Structure/ London the Structure/	Mo Sinkness Values with 2 km O	Bottlery of Japon Williams	Net stope brechland, chrysted sales; < 36% stope	Mal-slope continuous. > 15 haloge 12	Upper 1/3 of Stape IS
	Age of Development	No Sincluses Values selling 2 km	felghelechileifere prachadi	Formeter interface, mithendustres	learners > 1 Strecture/Se	hiddin < Laineigrafia Infridinciae 10
٥	Partition of Assertances Area Rejutive to Voltage	ho Strectures Valety within 2 bits	>500 200-500 -003- 5 10 (24	540 200-540 - 201 m	RiseRealing > 900 200 - 500 < 200 an 12 25	5500 700-500 < 746 m
	90)) il faci sub talai b > 19. o Soux anali comparent orde d'Ablei r Score is > 95 km untivated polygen	rre lives		ALI DI'MO ANYM MLEGINO	E WINDFARE THREM SCORE Windfram Three Associate	30 AS
M	e Bahaulour Threst Chuse	check applicable data[Wildland Urban in	oterface Threat Classic	Pect applicable dass

City of Kamloops – Wildfire Threat Assessment Picture – Plot 9



Photo 9-1 @ 90 degrees





City of Kamloops – Wildfire Threat Assessment Picture – Plot 10



Photo 10-1 @ 45 degrees

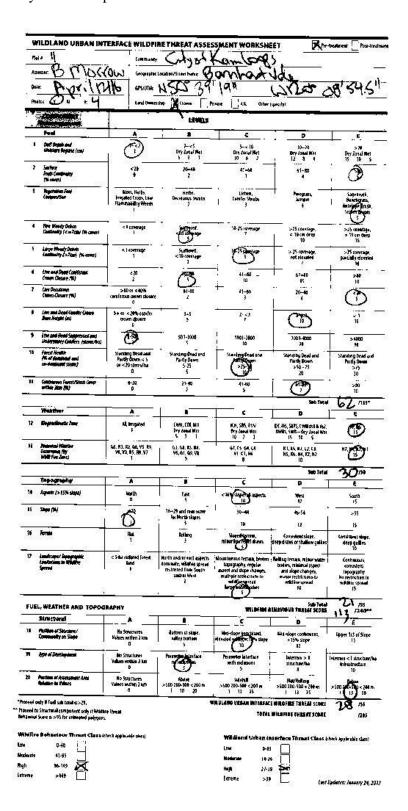




Photo 11-1 @ 270 degrees

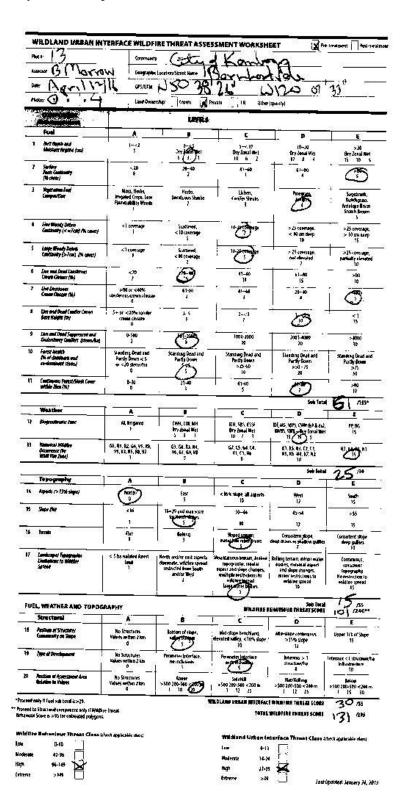
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t	Out Depth and	734	7-05	55510	10-20	> 70
	Minister: Regions (con)	! (J)	Ony Const West	Dry Janel Wen 10 6 2	Dry Postal Well 17 4 4	Dry (unal Met 15 10 5
2	Surface Famil Continuity (To proce)	0 <10	3	(1 -6 0 3	£1— 8 0 4	
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•	Fine Manify Deletio Continuity (< m7cm) (% cores)	- Committee	Scarcerd, <10 coverage	10-25 comings	>25 tal erage. < 50 on deep 10	>75 urerage, > 10 on seep 15
5	Latepe Meanly Departs Gentlemby (>7cm) (% cover)	- (m)	Scattered. <16 correspo	10 35 creenage	> 25-overage. not speased 7	>35 overage, pertially elevated M
4	Lite and Pead Coniferous Cream Chapte (N)	<20 2	(5)	. 10 11–00	61-10	>D
7	live Partheres Clouds Cleaner (No)	>50 sp <40% conderous closen cleapage	2 2	1 11-40	33-46 4	(7)
1	Elvé ánd Dead Casalia (Irrep Base Helgha (Isr)	5+ or <20% coupler ordant (lessure 0	- J-5 3	0	1-<2 H	4.1 13
•	Chry and Dand Supposessed and Budenshipsy Courtes, (physicidia)	3	501-1000 5	1081-7086	2801- 460 0 30	> 4540 30
*	Frant Hadib (N of demonstrational to-demonstratics)	Steeding Deed and Pardy Court < 5 or < 20 stretchia	Standing Dead are. Facily Dawn 5-25	Standing Deadland Hastly Deam >25-50 10	Standing Dead and Partly Bown >50 - 75 20	Standing-Yead and Putty Down >/5 10
h	Continues Forest/Start Cores within 2000 (N.)	+-X0 0	21-40 3	41-60	(P)	>90
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	Westber] ċ	. ò	
2	Reportant Apr	AT, jungates	CwnC84. Jan Dis Zonal Wes 5 3 1	KCH, MIS, FSSF Dry Bonah Was 10 7 5	ESF, MY, SEPY, FINH 46, F6-667. 470785, SWFF — Day Zonad West 15 10 5	
i	Experient Officials Occurrency (by WMM Fore Zone)	GS, No., Rth. Ga., Vis. Ass, Vis. Vis., NS., No., Vis. 1	63, 68, 83, R4, 96, 61, 69, 98	67, CS, GA, CA P1, CS, SIG B	KV. US, R3, C2, C3. H5, K6. M4, UZ, H2	10, mg. m
		955			Sab Total	300
	Topography	A		c		Į.
•	Aspents (>15% steps)		East	<16% days all aspects to	· West 12	South 15
5	Shaper (No.)	<16	16-25 and max wore	10-44		>15
	270120	1	for Historia	, ka	12	15
6	(evalo	Flat 3	dalarg 1	Singuithman, Prince (Carrelet drawn	Consistent dage, desig strats or shallow guller	(onshield shops, sleep guillies 10
3	Euroteaper Rossponder Euroteaper in Whitele Sprond	< 5 ha nujaheri lamat land I	Morth anger each expects demicale, middle speed reconstruct flow South and/or West	· -	Asiling terror, minor water body, minimal apper, and alogo changes, minor resliktions to wild fee spread to	Continuous. Cofesionic Topography No restricture to voiding spread
V	L, WEATHER AND TOPOG	БRДРНY		WILDFIRE	Sub Facility of the substitute	Plo 240
	Structural	A	8	٠ (0	E
a	Pacition of Structures Community on Steps	No Structures Values withou 2 km 0	Barners of slepe, valley beltom	Not-skip bendikani. Herwind pates 3 H in stage 10	Madistrope romitiazione, > 65% stage 12	Иррия 1/3 at 9kg и 15
19	Age of Development	No Structures Valors within 2 km	Productor Interface to addispos	Formator Interface, with exchange	Justinia > 1	Mertana < I sinuclared Metalinocture 10
0	Parties of Assessment Anal Ballatine to Values	No Venetures Values anthun 7 cm	More >500 (100-500 < 200 pt 1 10 20	>560 200-590 200 m 1 13 25	Flac Rolling >500 200-500 < 240 m	500 200-500 < 200-
46	eniy di funj puh toral (5>29. 10 Structural compensed collect Which I Scott (5>5) for universited polygon	ire linesi a.	1	LOLVIN DEPTH JOHN CONTRACTOR	E WILDFINE THREAT SCORE WILDFIRE THREAT SCORE	125 m
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eft.	e Behaviour Threat Class	man spaces rout			Marines (prest Chiss	CHECK SPERIAGE INTELL
	₩ □	ionio specialisti		law 0-1	(c)	CHECK SPHEIRISM HAVE
	⊷ □	100			• <u> </u>	and applicable law

12

 $City\ of\ Kamloops-Wildfire\ Threat\ Assessment\ Picture-Plot\ 12$



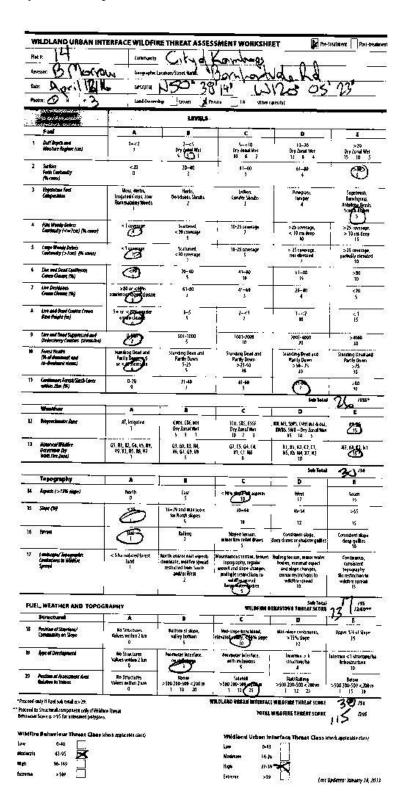
Photo 12-1 @ 270 degrees



 $City\ of\ Kamloops-Wildfire\ Threat\ Assessment\ Picture-Plot\ 13$



Photo 13-1 @ 180 degrees



14

 $City\ of\ Kamloops-Wildfire\ Threat\ Assessment\ Picture-Plot\ 14$



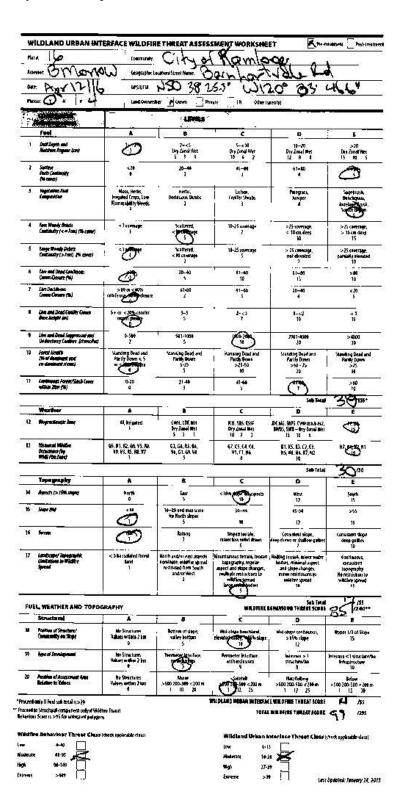
Photo 14-1 @ 180 degrees

_	LOLAND URBAN INTE	200				rearement Passi-med
Mal	· 15	(secounty:	City as	Kowloods	© 09 ≟	
Jap	B Moraw	Geographic Le	KIDON/SIRKLAND	3	ride la	s= s = s
hute	D 1M	esona I	J50 1	3 1741 1	10 P O	11124
		200000000000000000000000000000000000000		Transport Control	MIN	1' 25.4"
		Last Connect	ıρ µ(tomm i∏Pi	neale IR Other I:	a cuḥi	
	resolution acqui	4 W.C.	LEVELS	1675	50	500
_	Fuel	1 1		annon C		1
1	Dall Depth and Meisture Segune (cor)	(3)	J=<5 Dip Zon# Wec	5-c 54 Dry Janai Wer 10 6 2	16—20 Dry down Pet 12 2 4	>70 Dry Amai Rec '5 to \$
1	Saction Facts Countriestly (M-control)	< 24 4	20-44	41 <u>-54</u> 1	67-10	C 3
3	Keget alton Facil Emprovidue	Mana, Herby Inspated Craps, Loss Flammability Weeds	Performance Paragraphy	Liches, Confee Shabs 3	Process. Marger d	Sogelman, Berringens, Astringe Brown, Somith Brown
4	Fire Handy Behilt (militarity (<=7cm) (th zone)	«Тезимере	Scallered, clip etilitage	18-75 (werege 7	>25 coverage, < 10 cm dees to	>25 (104) (134) > 15 cm dasp 15
5	Langu Moody (Asker) Camphigathy (> 700) (Thi control)	(Scanned c 10 roverage 2	13-25 menage	> 25 cases sa, nat alreated	>25 cooninge. paraulty elevated 10
6	(Are pad Depth Cardinous Caren Great (N)	ඵ	21-40	11-60	61-40	>80
7		>Har <105 unilegationingsun		10-40-3	20-40	10 <20 5
Ŀ	Line and Dead Contin Crown Base Height &c.	S+ or < 20% combined to the co		<i>t</i> -<1	ξ-<2 10	(1)
•	Life and Dead Suppressed and Headerstoney Continue (Headerston)	9-500 2	501-1000 5	1501-3600	COTE OF	>400
18	Forest Health (M of decisional spot of decisional states)	Standing Peed and Parsty Down < 5 of Schooling (1)	Standing Dead and Partly Down 5-35 5	Scanding Deed and Partly Dears >25-50 10	Standing Dead and Parity Down > 50 - 75	Scanding Drad and Partity Boven >75 90
11	Continuous Perst/Sitesh Color service Zigo (NU	P-29 0	21-40	61-60	· (i)	- NI la
		· 			Sub Tetal	(3 MSS-
1	Trather			ć		- TE
L2	Noyenchantz Zong	AT. legates 1	CNIH, GM, MH Diy Estad Well 5 3 1	WH, Sqls, ESST Dhy Jonal Wes 10 / 3	MF, MI, SRPS, CWH act & dc2, FMTS, SWH = Day Zonal West 15 (10) 5	P r. M 15
u	Medical Whithe Scorrence fly Well fire Zear)	GS, AU, ED, GG, VS 48, V9, T3, R5, RE, V7 1	63, GU, KS, R4. 96, 61, 69, 19 5	67, 15, 64, 14 VI, C1, 46 B	KU, US, R3, C2, C6, MS, KA MA, U7, M3 10	M. 63.41
				196 3.5	Seb Data	15 M
	Topography				D	
•	Aspects (> 15% siepe)	Month 0	Fact	« Isto stage Imagents	7 6 -11 17	Smilt 35
ı	Ships (FL)	Ö	16—29 and mate score for Horth slopes	30-44	6-9	>55
	Errain		Rolling	Sloped terrain,	Toroshiters; plager,	(armolent sleet,
		0	7, 9	Manch less report dians	the state of station gates	Grep griller 10
n	Landscape/ Epopulati Linkscape to Milette Sprand	< 5 ha noistea@ment land 1	North and/or your aspects dominate, wighter press manufaction Sough and/or West 2	Mountainous tension, broken lapopraphy, rigidan superit and slape charges, malliple restrictions for military control large grant hopes	Railing content, draften weden bodies, notwood aspect and slope (named, minor teamstooks to unfail respectives, to unfail respectives, to	Conferences, canocienc basegraphy file restrict sparty milester spread 15
-UE	WEATHER AND TOPOGE	IAPHT	1987 DE		Sab Total DEMANDOUR THREAT SCORE	17,755
ğ	Structural	A		_ c		T.
	Pasided of Structures' Community on Sluge	No Street early Valence on them 2 fem ()	lettom of slape. salley bottom S	Med-slope brocklying closested year Celebo slope 10	Werntege continuess, > 15% stope 12	Upper 1/5 of Gope 15
•	Type of Ormitopasseri	Na Structures Values within 2 km O	Peruneles Incortace.	Personales Intertiers auch rechanges	inema > 1 druggens 8	Friterionis e il strecture il infrastructura 10
	Polities of Assessment Arms Relative to Values	No Sinjenyaen Balloes within 2 km	Above >500 208-500 < 200 m 1 \$2 10	>501 703 503 110 m	#3074#hng >500200-500-20070 1 13 15	\$660# >586,383-500 c700 t 1 15 30
red Li	rily of Fuel sub-total 15-20 Suncastal computer I golp II MARDI Score o >95 ha uniferenced polygons.			WIGHLAND UNDAR INTERPA	Cennilbeial Indean scone Lunilbeial Tunear Sconi	30) m
dfle:	040 Garage States of 4145	orch applicable dassij		Wildland Orban (Life 1-1 Nations 14:	(love)	check applicable dang

City of Kamloops – Wildfire Threat Assessment Picture – Plot 15



Photo 15-1 @ 180 degrees





City of Kamloops – Wildfire Threat Assessment Picture – Plot 16



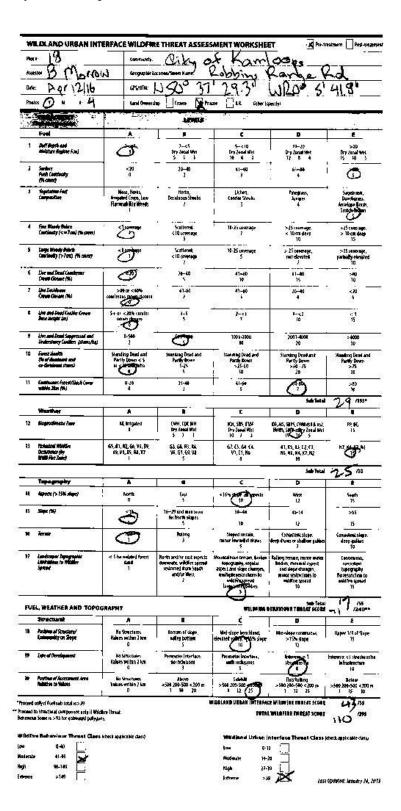
Photo 16-1 @ 90 degrees

	Emp Contracty (% cares)	<u>.</u>			1	ණ
•	Negation Fee Composition	Aloca, Herbs; Imparied Caops, boss fijato in abbley Weeds 1	Herbs. Decribates Shebbs. 2	United, Confer Stanta 3	Panegras, Intiper	Sagebrush Bareloga Igush Vanil Sages
•	Force Manage States Completely (1999/2010) (46 control)	100	brattered, c 35 reamage 5	16-25 commage	>15 roverage. < 10 rm step	>25 corerage. > 10 ms deep 15
5	Large Woody Bear's Cardinally (>706) (fit cares)	0	Scattered, c k0 commage }	H-25 coarrage S	> 25 cenerage, met devoted	>25 correspe, partially stavared 10
۵	Care and Open ConCorper Colored Consure (SS)	7	76—40 1	11-40 10	€1- 30 15	> 84 10
7	Live Decidence Oracle Groupe (%)	sector second	\$1.49 2	11-40	10-40	≥20 4
•	Live and Deed Coulder Group Since Height Liq.)	S+ @ <200 camba project despite	3-5 5	Pests T	1-<2 16	5.1 15
,	the and Dood Suppressed and Understany Condess disortectual	E-994)	\$01-1000 5	141 Pag	2001-4004 26	>4000
10	Forest Health (*) of Bostowit and so-deminant stores!	Standing Doubland Partly Louis C 5 41 < 20 Standing	Standing Dead and Portly Ocean 5-35 5	Standing Dead and Parity Dead >25-50 10	Standing Dead and Parity Sown >50 - 75	Standing Dead and Partly Boson >/5 b)
11	Continuos Farest/Stack Cover attitis Zina (%)	D-246 0	21-mp	11-60	(⁹)	>80 10
	19	100	· -		Sab Tetal	34 nss
ų.	Westher Singustrate Zeer	AT, Jeigelet	CNH, CM, MH	KH. SIS. ESST	O Michigan (Marie A)	Pr. NG
		81000	Diy fond Wet	Dig Zanal Wet	BY, MS, SEPS, CHIH M. 1 & 017. BMDS: SWHY - Day Zornal West 15 10 5	is T
)	Ministrical Ministre Generator (hy Jenië fire Zime)	GS, RI, 12, 66, VS, 49, V9, V3, RS, RS, V7 I	63. 66, 63, 64 W., 61, 69, 18 S	47, (5, 64, (4, 91, 61, M5	KI, 85, K3, C3, C4, MS, K6 MA, 87, M3 10	- B
	Topography				Sele Torcal D	25 [№]
٠	Aspects (>1516 slape)	Month 0	Ear	< H% spife despects	We-ji 82	South 15
5	Steps (%)	一 ₂ 为一	16-29 and man score for first this leges)0 —4 1	6:-54	>55
	Tomas	- -	5	ID .	(ancentred slave	15
		(*)	Rolling 3	Maped remain, manus less sell el draws	: de-ep drawn ox phallow guilling	Consistent stage: deep guitars 10
	Lamburgue) Tapagraphus Einstellants fo Militales Spannel	< 5 ha notated knept jacol i	Horth and/or east aspects dominate, widdline spraud restricted from bouth and/or News	About a lance special, the dear Historical by, legislar aspect and stope charges, with one resumment on with a sever lance and language with the sever 1	Rolling terrain, minor states bedes, manimal appets and slope that ges, militar to vinci (vinci to seletti a spinali 10	fordings consistent lapography tro-estriction to welfire spread 15
VE	L, WEATHER AND TOPOG	RAPHY		WLMIS:	Sein Total Barrando en Tradant Scoul	1340 ···
	Structural Super	A .		_ s _	. Р	
	Foshies of Structure/ Decemberly on Stage	No Siruk Oues Yakus, writtin 2 km O	Bartons of steps valley tables	And-slope Banchisad, cleased wiley, < 16% slope 10	Mis-dobe continuos > 15% siepe	Upger I/3-al Slape 15
	Type of Destination	No Sinctures Walket wilder 2 km	Pointerto interfaço no indisposo	Perspector bilintars, militaritary	jalemas > 1 Stuature/ha	Internet < structure/le fintsylmether 10
	Analysis of Aspertment Amer Britishes to Volume	No Structures Values within 3 tan	>500 200-540 < 200 m F 10 24	>500 HG (10 < 200 m 1 (1) 25	Rat/Rolling >500 200-500 < 200 an 	>500 200-500 < 360 m

City of Kamloops – Wildfire Threat Assessment Picture – Plot 17



Photo 17-1 @ 45 degrees





City of Kamloops – Wildfire Threat Assessment Picture – Plot 18



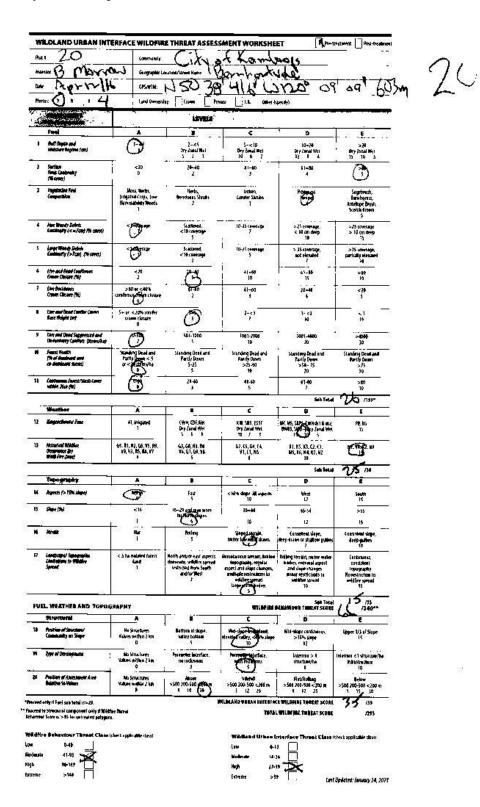
Photo 18-1 @ 270 degrees

w	ILOLAND URBAN INT	ERFACE WILD FIR	ETHREAT ASSES	SMENT WORKSHE	ET No.	ecelment Post-breitnen
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	WAS TALK	200 DE CONTROL DE CONT	N 70	\overline{a}	Mrs Ola	18.3
10.	sk (1) 1 1 4	Land Owners	hip E tileen <u> </u>	NACE LIL DRIEG	inter	
3	Seque Description 1		LEVELS.			u.
	Fool		1 1			(E
•	Buff Depth and Buls But Regions (cm.)		}—e5 Stydosel Met 5 3]	5=<10 Dry Zonal Met 10 0 2	10—34 Dry Janal Wei 12 4 4	Pry čanal Wei 15 10 5
2	Surface Facts Connectly (Th certar)	0 <10	26-40	(1-60	61-30 4	3
3	Equippine Foot Competition	Wass, Norths. Integrated Copp, low Flore medicing Receis	Heats, Georduses Shruits 7	Lachers Coalier Shrubs L	Angus. Isnos	Sagebeuth, Burchignass, Undergo Bruch, Septembroom
•	Fine What's Deben Continuity (<=700) (No cores)	<1 coverage		10-15-eprerage	>25 crowsye, < 18 cm desp 10	>25 conesage. > 10 cm deep
5	Litrae Wandy (Inhote Contributy (>7cm) (% cover)	< I styrrage 1	Charage	10-]\$coverage 5	190	>35 pressure pertially denoted 10
•	Live and Desail Carifornia Gratin Clarine (No)	₹#	20-41	©	61- 8 0	380 11
7	The Biolitanus Cream Classes (NJ)	>30 or <40% conferous crown distance	61-60 2	41-61	25-40	(3)
ī	Live and Dead Capitor Crosses Base Height (In)	5+ or < 20% counter at 0 mB classifie 0	s⊢s í	1-43	@	41 15
9	Care and Dead Supporting and Street Services (Section (Section)	0-500 2	0	1081-7084 10	200F-4600	>4440
٠	Forest Houlek (To all forestrest and co-desticant stoud)	Party Does e 5 or < 30 cters/ha	Standing Bread and Participant	Standing Dead and Partiy Deam > 75 - 50 10	SGarding Dead and Parting Deam >50 - 75 20	Standing Death and Partly Boom >75 30
1	Continued Facet/Stech Cover within 2010 (NI)	P-20 0	51-40	41-60	- 47	Ö
					Sub Tetal	Φ,
	Wester	(A)	B	_ c	D 35	E
	Depositants inc	AT, jurgialies	CYNH, Cât, ANN Dip Zonal Web 5 3 1	KH, SIS, ESSE Dip Conal Web 10- 7- 3	IDF, MS, SSPS, CWH est &cts2. IF m to . SWIP * Doy 2 const Wet 15	PP; 855.
	Historical Whitelers Communicate (by White Fire Zinne)	G5, R1, R2, G6, V5, R6, V9, V3, R5, R8, V7 1	63, 68, 13, 84, Wo. 61, 69, 48	G7, C5, G4, C4, P1, C1 M6	KE, 85, 83, 42, 63 H5, 86, 64, 87, NJ 10	H7 (33), H1
_	286 - 188	**************************************	0	80	Salt Tural	00
_	Topography	A	8.88	C		-
	Aspects (>1514 slape)	Herth 9	€est 5	<16% slope situações la 10		South 15
	Sign (N)	علتم	16-29 and maxistore for Hosth depes	10-44	45-54	i >55
_		0	Tor Worth Mepes	10	12	15
	lorais	Han	Redleg 3	Stoped terrain,	Consistent slope, deep draws or shallow quites T	Committed stage, I Boop guillier I G
	Conditions in Military Committees in Military Committees in Military	< 5 ha walahel taned lend	Renth and/or feel aspects deminals, wildfire speed restrated from South and/or Rings		Rolling analysis, minor water bodies, minimal aspect and slope changes, menor remotions to wholere served 10	
FLH	L. WEATHER AND TOPOG	HAPHY	-	200000000000000000000000000000000000000	Sub Torn Enchange und Trapped Scott	
	Structural	A		e e e e e e e e e e e e e e e e e e e	D COMPANY THE THE PLE SCORE	1/3 124044
	Politics of Structures' Community on Stope	Resimentes When evilual has	Sottom of stope, salley bettern	NIH-dispo browhland, elevated salling, < 16% slope, to	Mid-place contractors.	Upper 1/3 of Slope 15
	() Det of Development	No Streetgrey Valors method 3 lare	Permeter interlate, no industria	Petrapoles francisco.	friedmu > 1 Machinella	THE ID CONTRACT OF THE PARTY OF
•	Position of Assessment Area Relation on Tollags	d He Struktures Velues mittin 2 km	Pour cimu	5 5±44 3 >540-248-144 <200 m	But/tolang >500 250-500 × 204 m	18 Sept. 500 a 200 pt
		0	ייינטיַ!	1 II2 25	1 17 75	1 15 H
			÷	ATRIA TIME (INCHES CHILL) DE LA TOTAL LIA TOTAL	CE WALDPINE TWALKS SCORE L Waldpine Thinlas Score	
•	omby d' Ruali sub-tongliny > 29; to Structured companient andy it Willet n Scare is > 95 for a nanozand polygou	Gre Ihavat >				
oed PRI	to Structured correposent orders White is Scare is 3-95 for a nanozard polygou	,		Wildland Deban	niariaca Threat Class	leherk make able dance
oed PRI	to Street and companient and-of Wilds	,		Wildland Urban b	nterface Threat Class	hhed-applicable class;
oed I TO	to Sinci and comparent endy if Wildin I Scare is 195 for a manusard pulygou na Badhatel with Therwall Classic 4-40	,			; <u> </u>	khedi appikable danaj
1	to Sinci and comparent endy if Wildin I Scare is 195 for a manusard pulygou na Badhatel with Therwall Classic 4-40	,		Low 0-1	; <u>-</u>	kheukajoji kable slavaj

 $City\ of\ Kamloops-Wildfire\ Threat\ Assessment\ Picture-Plot\ 19$



Photo 19-1 @ 90 degrees



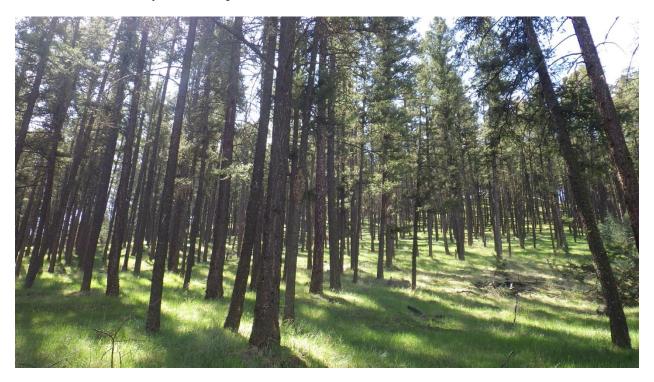


Photo 20-1 @ 180 degrees

Ho	EE (7) 1 14	Lend Owner:	ter term A Po	nele []II. Deker⊖	opecally)	-	
-9	Feel	 		Ι ε	0	T 8	200
	Del'Depatronal Malaine Report (ch.)	B	i—e5 Cry final Wer 5 1 1	5-<16 01y2onal*Me1 10 6 2	16-20 Cry dead life: 12 3 4	>20 Dryfundifferi 15 10 5	70
	Section Facts Continuity (No contr)	<20	20-44	45-44	41-60 4	۵	
	Projection Faci Compactifies	Moss Herbs Impaled Gogs, Item Apromability Weeds	Herbs. Denikors Skrobs	Turken, Consider Menutes	homes	Suspension, Berkhyers, Antologa Bruch, South Steam	6 5
4	For Monty Bellins Continuity (Continui) (Ne contr)	<1 covelage	Haltmed,	10-25 comage 2	> 25 coverage, < 10 ms deep 55	>25 rownage. > 10 one deep 15	-
	Large Wroody Dedicts Combinately (5-2004) (Fit corns)	**************************************	Scattered, < 10 coverage 2	16-25 coverage 5	> 25 (testage. not electrical 7	>25 coverage, partially elevated 10	
6	Cher pad Dead (mellerus Crum Clesary (%)	<20 ?	36 —e 6 ₹	(***)_	61- 34 PS	># 10	-8
0.00	Ler Develope Court (%)	>10 m <40% continues un on dayer 0	ii-si 2	41-60	10-40	· 😙	70
ī	Live and Dead Contier Cours Bose Height (m)	S+ si <2Percentu peren dosare P	3-1 5	2-<5	1	د ا الا	
,	Line and Depth Suppressed and Understarry Condies (States/In)	6-50s 1		1601-2000 lo	7041-4094 70	>4000 30	78
1	French Month (No of deciment and co-deciment months)	Standing Dead and Parity Drain < S se and Shortering	Stanting Boad and Parity Board 3-25 5	Standing Dead and Partly Rome 2/25-30	Standing Dealtons Parity Cown >50 - 75 20	Maceling Dead and Parely Bovos 575 39	
ŝ	Continuous Forces/Sheets Communication (NO)	0-26	37- 36 3	41-61 5	(7)	SIB N	
	Weather		1	- 20	Salt Next	27	-88
	Sopredictly has	4, Imparied	CWH, COS, MH Gry Assaul West 5 3 1	ICII. SIS. ESSF Dry Joyal Rel	DI NS SEP (WHI &) 4-0.2 Date, SEP - Day (on all b-	# # # # # # # # # # # # # # # # # # #	-
	Planetal Widele Organism (By White Fire Zone)	GS. A1. RZ, GG, VS. RS, VS. EJ, A5, Rg, V7	63, GA, PL, B4, 96, 61, 69, VB	GT, ES, GA, CA. VI C1, NG	1 19 1 1 181, 185, 183, 03, 03 185, 186, 187, 183	N Retta ni	
١	ille m	OV 800		• **	Seb Tota	25 "	.00
	Tope graphy	Α	8	į č	0	i	- 68
	Aspects (>15% steps)	(7)	lan S	<16% slope all apperts	Best 1/	South 15	
	Stages (%)	< 16 1	16-29 and man work has writer special	9 -4 4	45-54	>56 15	
		An I	Balling 3	Stoped terrain, mores loss relief dinivis	Consistent slope, dress drawport slighter guiller	Consistent slope, stoop guillen	23
	Conduction Processing	< 5 ha realated to one and 	Marth partitule of experts despitate, while the special respicted high South and/or West	Mismwenous introle, broken troography, regular appert and slepe thanger, maltiple restrictions to mildite spread force water spekes	Rolling Steam, major water bodes, in install aspect and object changes, thanks to spread to written spread to	Continuous, consistent teacquipty for instrument in wright in your 13	40
LINE.	L WEATHER AND TOPOG	MAPHY	A333	mining.	Seb Sen BEHAVIOUR TRACKS SCOO	9 7248**	732
	Structural	A			D	F E	
	Parities of Structures' Community on Stope	No Structures Values within 2 km	Section of stage, nalley believe	Mid-slope benufused, devoted salley, <16% slope by	Viet-slape continuous,	Ивран 1/3 of Stope 15	
2000	()be-economies	He Streamers Values extrem 2 km 0	Penmater from bur, no ordeport 3	Personal in timer lave, write-industries 5	Injuril, > 1	Riferros < 3 Austriania Infrastructure >)	
	Position of Assertant Aire Believe to Tables	He Structure. Values within 2 law O	>546 206-500 < 200 m 1 10 20	5 steam > 549-201-500 caligo in 1 12 (25)	Ret/Retting =500 200-500 = 200 m 1 1J 25	Fellow 1500 240-550 < 200 m 1 15 34	38

City of Kamloops – Wildfire Threat Assessment Picture – Plot 21



Photo 21-1 @ 180 degrees

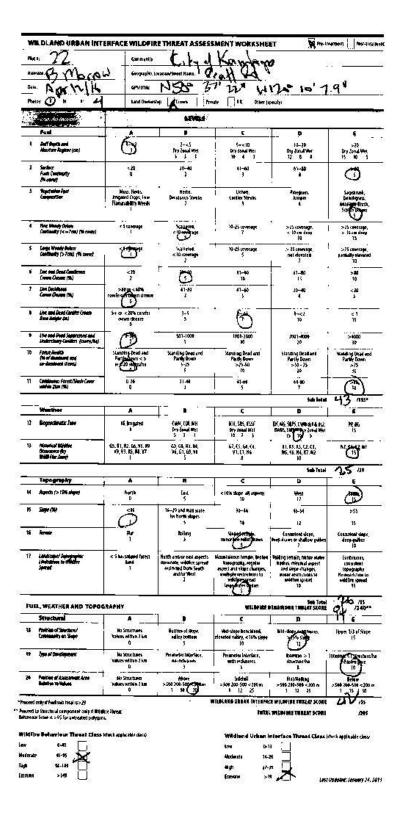






Photo 22-1 @ 270 degrees

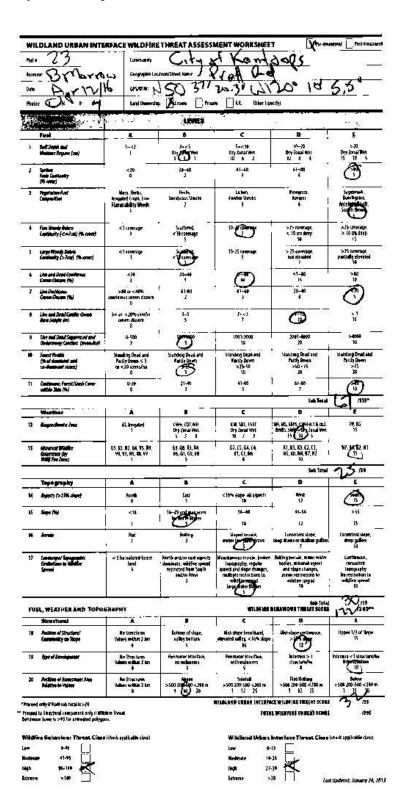






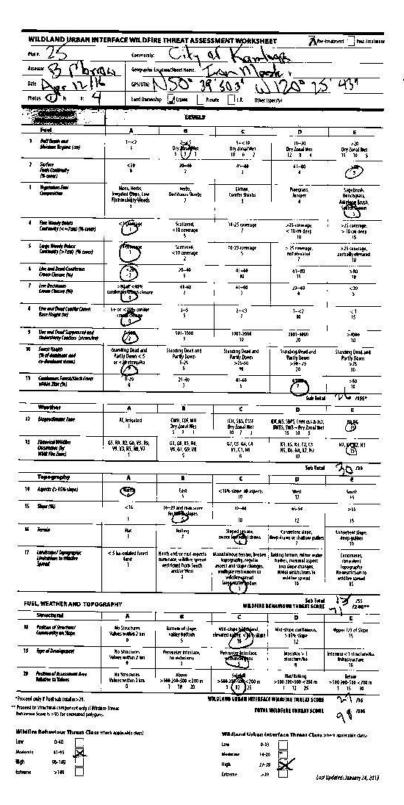
Photo 23-1 @ 270 degrees

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ale ale	A	Carried Street, Science Street	retien/Steet have:	K H, (IL)	11 S	, N -
_		[angitive projection of	e Marian Pro	V / / / / /	£	71,
	Assistantes		faphare	111. 311.		
	Faci		1		D	LE
į	Dell'Depth stat Michael Region: ford	les)	-1 -1-45	5-c N	16-70	>70
	983760	_ 1	S S S S S S S S S S S S S S S S S S S	Dry Zonal Wet (0 6 7	Dry Jones Res 12 8 4	Day Bond Wet
	Seriece Finds Combinally (No cover)	- C24 - F	7	#!- ⇔ # 3	61-N7 4	٨
	Vegetation Fari Catgorities	Mosk Herbn, Integrand Chorts, boar Hammablaby Weeds 1	Herbs. Gerlander Skrabs J	Lithee, Londer Mends		Sayebrush Sunchquass Antelope Brush Scarm Bagon
	Fire Blandy Dates. Cardinally (c=Fcm) (% cores)	T	Scattered, <10 coesage	10-25 cannage 7	> 2% commange < 10 cm steep 10	> 15 coverage. > 10 co desp > 10
	Large Mendy Defects Combinates (>70m) (% terror)	-1 €9	Seattered. «Heavenings }	10-25 carerage 5	> 25 startings, set elevated	>25 coverage, partially desired by
	the and Book Conferences (come Onsare PA)	420	0	+1-¢0	† o: -40	>4P 10
	Erre Peridunen Crosse Climate (%)	>80 er < 40% conferous course closure 0	61-16	3 T1-00	20-44	0
j.	the and Dead Coadle Count Sece Height (m)	3+ ar <20% tonfer cream desure 0	3-5	9	1- cJ	41 IS
	Chrestof David Suppressed and Statestarry Contines (Streeting)	(3)	501-1860 1	1981-2004 10	2501-4400 20	> 4540 30
	Forest Health (In all featurest and or-deniment steers)	Partir Door < 5 or a William > 5	Standary Dead and Parity Death 5-25 S	Standing Dead and Parity Doren >25-50 10	Standing Dead and Pully Deam >50 - 75 70	Standing Pend and Partly Descri > 25 30
	Complications Fernist/Select Gener militair čásov (M.)	+ № 0	21-40 5	41-60		>30
	Weather		T s	- _c	Selb Total	40 /18"
	Angua Santa Anna	AT, largerted	Crat, Caf, Jan Dry Zonal Wes	KHL185, ESSF Dry Zonal Wes 16 7 3	105, M3, 5295, (WH 4s1 & cs.) 105, M3, 5295, (WH 4s1 & cs.)	
	Historical Wildlife Constraint (by MONE Fire Trans)	65, R1, 12, 66, 15, 16, 49, 13, 85, 80, 47	G3. G8. 19. R4 W. 61, G9. V8	67. (5. 64. 64 17. (5. 64. 64	KH.45, K3.42, E3 H5, K6 H4, H7, H2 10	17.E3.H
	75		\$? \$?	-	Seb fatal	250
9	Top syntates	3		c	D	L
ì	Agrects (> F5% slope)	3	East)	<16% slepe all aspects to	**************************************	South 15
	Segre (%)	<16 3	16-29 and maze score for portification	10 -44	43-54	>15
	Samula	— ∴ Rai	- Gerhing	Stoped bersen, miser in Christians	Combine slope. deep draws it shallon gullier.	(modert dose
316	Emiliospel Topographic Emiliospes of Whithy Sprond	< 5 ha Holahed tareor lend 	, Acorth anator each expects deminate, self-the special restricted from Sault-self-the Man 2	Mauritamens terrain, broken repognaphy, regular sever and slope changes, multiple restrictions in widom series form matchpookers	Rolling sensio, miner wave, bodies, mineral report and slage changes, sheet resilikation to wild are spreed as	Continuous, consistent isoography He restindion to wildfire spread
ve	L, WEATHER AND TOPOS	жарну		PROFINE	Sab First EHALTIGUE PHEENT SCOOL	13 AS
_	Strectural	100 A 100			Ċ	20
	Footian of Structure/ Columnity on Stope	Mo Sinuctures Values ou Abia 2 aus D	Battem at stepe. valley battom	Med-slope breeshiped, -clevated exity, <36%-slope 10	Mid-stope mathematics, >15-95-95/gre (12)	Opper 1/3 of Slage 15
200000	Nor of Descriptions	No Sinuliares Valors unifica 2 has D	Arometer Interface, no sedimons	Peterleter jaterlaue, militariamens	baterman > 1 misselume/ha	Internus <1 sinusere/he Internuseronoue 10
1000	Analism of Assessment Asses Anisable to Valence	He Stations Volume = Char 2 ton 4	None >500 200-500 < 200 m 10 20	. 500 200-540 - 500 pg	Hat/Kating >500 700-500 <260 m 12 25	Bellow >500 700 -500 < 360 m 15 35
1	enty if Feel sub-tetal (t.>.29 a Same taleat contraction only a Yellet i Surre is >9% for unifersity algebraic	te iluszi	23 20 20 23 2	MI DEMIN PREMI INTERSE		40-111
	e Bahavious Threas Class	thets applicable dassi		Wildland Urjuga (Lou 6-1 Medicate (s-1		(check applicable three)
44						

 $City\ of\ Kamloops-Wildfire\ Threat\ Assessment\ Picture-Plot\ 24$



Photo 24-1 @ 90 degrees





City of Kamloops – Wildfire Threat Assessment Picture – Plot 25

Photo 25-1 @ 270 degrees

	ILDLAND URBAN IN	EXHALE WILDFI	RETHREAT ASSES	SSMENT WORKSHA	EET N	-brancer Post-fr
Me	n· 26	Community	CULIS	Kanlas	ત ે.	
A E	BINDING	(\ Geographi	Location/Steen House	1.0.	tast	96.
Or		GPS/BTN:	1157 201	5 14 11	7.0 0	10 PE
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rii	300000000000000000000000000000000000000	Land Denom	ntep 🖟 (nown []	indte [] I.I. Dile	lipecity:	
			LINEA	4		
ं	Feel			c		E
1	Dell'Aspet and	1egi	40	5-cH	16-20	>20
	Michael Roper (cut	1	Dig Professor	Dry Zonat Wer 10 6 }	Dry Assal Ref	Dry Zonal Wet 15 89 5
1	Seriece FAC Geomoty	<20	10-41	61-64	67-80	·- /SK
_	(N-core)	28	4.0	3		<u> </u>
3	Vegetatine Fuel Composition	Mess. Herbs. Impared Crops. Law	Herbo. Derabateri Shrubo	Lichen Coatler Shrups	Forgus, know	Sagetuech,
	5405 (C480)	Rarrepublicy Mireds	, and	3	1 4	Runchgrass, Untelling Bright Seatch Grown
		<u> </u>				
•	Part Breaty Debris Continuity (4 m/cm) (% count)	<1 cotorage	Statement, < 19 Statement	10-25 coonage	>25 coverage. < 10 on acep	> 25 corerage. > 10 cm steep
5	Congr. Worsey Debris	<1 perhaps	%eltered	I	116	15
•	Continuity (> Jum) its cover)	1	Saftered b) coverage	10-25 co errage 5	a 25 coorage; and elevated	>25 coverage, partially elevated
6	Live and Dead Conference	<20	43	41-60	T 51-30	10
_	Cares Decem (%)	3	<u>©</u>		IS IS	>80 10
7	Live Desistances General Commer (No)	230 or C49% condenses attented from	61-20 J	4: -64	75-40	(3)
	Um and Dead Coalter Comm			-	25	<u> </u>
•	Base (folghi (far)	S+ or <20% conder cross-dause	1-5	1-43	1-<1	(2)
9	the set had becomed and	÷	· — ,,,,,,,	<u> </u>	700	
50. 	(in put Deal Suppressed and Deductory Contins (Stansaket		561-1860 5	100 1-2004 16	2001-4es0	> 4046 10
	Forest Scattle (% of detributed and co-foreignest second	Standing Dead and Parily Down < 5	Standing Bead and Partly Bown	Standing Dead and	Standing Deadland	Steeding Deed and
	CO- CONTINUES (RESIDE)	" Carponi	5-25	Partly Scor >25-50 10	Perify Down >50 - JS 26	Partly Down
1	Continues Force!/Slesh Coops within 25m (Sk)	0.24	21-46	61-60	780	36 315
_	9886 Jim (94)	<u> </u>			_(10
		-	10 Q.		Sale Total	53 nm
2	Weather	A	В	c _	D	ŧ
2	Engardment Zone	AT, jangarled	CMH, FBF, Ann. Day Earnet West	K'H, 105, ESSI Dep genal Wer	NF, MS, SEPS, (MH 451 6:cb2, 6WHs, SWB - Dry Zerus Wet	C
1	Namonal History	/f II in ra ur m	3 3 1	ж 1 3	14 10 5	<u> </u>
	Occupance (by Mills Fire Josef)	65. U., Az. 66, VS., RV. 19, V3. IS, IM, FZ	63, 64, 89, Ra, 96, 61, 69, 98	G7.65.64.64 91.01,86	11. K5. K3. C2. C3. R6. 40. R4. K7. 42 R7	N7.4C(0.8)
-		- 80	_ `-	1 1	. PZ	/ L.
7	Topography			· c	D D	<i>'</i> 20 <i>™</i>
ľ	Aspects (>15th slope)	Altra	Çası	clies stepe all aspects	West	South
_		<u> </u>		HO		15
	Signe (St.)	<16	16-25 and max source for \$400 may source	10-44	43-54	>55
	Errote			1 - 10	- 12	- 13
		Rux 1	- Rolling	Sieppel terrale, restock job entitel draws	Cardialent slope, thep fire; or shall be quited	forestert slepe. deep guffers 10
	i undruge/ Inpagraphic Limitation in Wilder	< S has salated forest	Marth and ream march	. Name affects (erraro, Dantes	. 3	
	Limitation to Wilging Spread	Earld 1	Harth and/or earl espects formulate, within agreed resineted here South	topography regular	Bolting leinele mener water boltet, mittehal expect and dope change.	fornition?
	20,300		ember West	multiple restrictions to	water the state of	Re-restriction to wildlife spread
			972	medicine restrictions to whether rest large auto-boden		15
×	L WEATHER AND TOPOG	E & DAUY		#E	Sub Tetal	19 15
3	Structural	THE TAIL	¥30	MIDIME	EHAMOUR THREAT SCORE	29 240
331	Auditor of Streetseri	No Structures	Terrom of slape,		B	
	Community on States	Values entren 2 km	andes bottom	Hid-Hope Deathland Ideated pales, CVD Stope	>15% slope	Usper 1/3 of Slope 15
	Type of Development	Ha Sina i yangs	Prosens jalgates.		- 12	
	3860 93 I	Values within 2 km	ne indusiens	horacestitodate, mitrindustry	intentra > 1 itricture/he	Interme) < Marchaech Intrappedate
3	Parities of Assessment Anna	No innectures	Abser	New Hill	Raukoling	10 Selow
	Raisther to Yapes	Values within 2 km	>580 280-586 < 200 m	>500 300 SM c 200 =	>500 700 -500 < 264 m	>500 200-500 <200 m
	sally It fised with total m>29.	N2)	3	MI DUAND PERAN IN LESSA.	700 00 00	127 A
11	SOLUTION COMPONENT OF A PHYSICAL SCHOOL OF STREET OF SOLUTION OF STREET OF SOLUTION OF STREET OF SOLUTION OF SOLUT	e Thesas			PROPRE THREAT SCORE	700
						Y Ja
Rm	Bohavleyr Threat Class #	hack applicable cases		Wildfand Urban In	norther Threat Class (heri applicable classo
	040			te= 0-19		
				Moderate (4-)		
•	61-95 <u> </u> 96-149 Dec			High 11-31	المحيل	

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Photo 26-1 @ 180 degrees

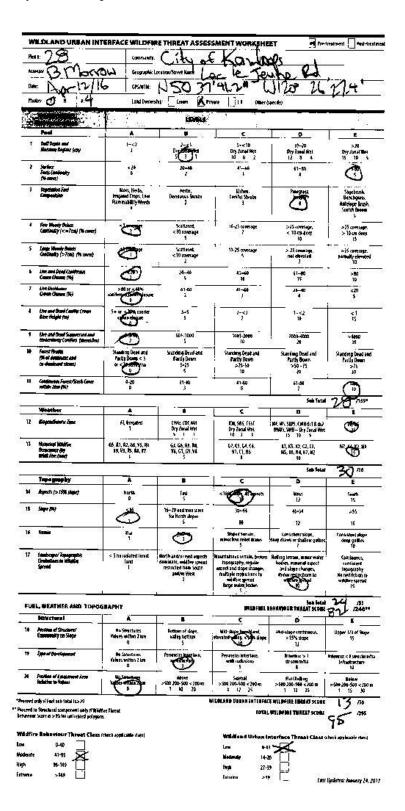
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900	mis 1, loca	100000000000000000000000000000000000000	Jocabus Stitle Habet	المراحب	wayer Ka	
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3	Alman Carrier St. Trans		VERWIES*	\$650 UK UK/5	(R-14)	
_	Fuel	. A		C		1
1	Dalf Begath and Manager Regions (and	F∂ I	Dry 2-<5	S=<10 Dry Josef Wes No. 4 J	10—26 Dry Zone Wei 12 B 4	5-20 Dry Zanai Wei 15 10 4
2	Saidbre Fatch Carethopity (N. carety)	<20 0	10-40 2	3 \$1-00	61-44	3
1	Republican Ford Compession	Moss, Herbs, Intigated Claps, Low Harramathirty Missels	Heris Gecalenes Struks	Lecture. Comiter Shrules 3	0	Segeteral. Burdhyren. Arrielage Bisch, Smich Broom
•	Fire Wandy Delyts Continuity (< = 7cm) (% copys)	<1 weerage	Stational. «10-coverage 5	10-15-50	>25 caresage. < 89 (A) deep 10	> 25 coressage, > 10 can deep 15
5	Large Weaty Delvin Cardinalry (> Ford (% dever)	<1 ioverege	Scatsmed_ c 16 correspo	10-)5-0	> 15 tormage, not elevated 7	>15 comage partially desired 34
*	Charles Dead Confidences Comm Cooker (No)	(A)	10—40 5	41–60 10	6!-#	10 214
Ī	Chre Decidence Corno Genera (%)	>RD ay capps comformed GAMen plasses	5 8140	41-eq	, n-4	~21 5
•	Live and Dead Contile Clause Socie Hodgitz (M)	\$+ at <20% conflet cosm (basice D	3-6	Ž-03 7	1-<2	s 1 15
١	Life and Dead Supercoord and Understanty Conflict (Silvers/Eut)	0.000	547-1036 S	ligo=7000	3041-4986 30	># 000 30
10	Forest Health (F) of distribute and co-department stops;	Partly Bown < 5 or < 20 stemutus 0	Sanding Dead and	Scanling Dead and Partly Bonn >25-50 10	Stynding Deed and Partly Down >50 - 35 20	Shooting Dead and Partly Down >75 36
11	Continues Ferral/Stash Cover unitre 200 (St.)	D-24- 0	21-44 3	61-60 5	6F-8D	
	Weather		7 .	7	Sub Tecut	
U	Neparlant Aug	AT, knopales	CMH, CRF, MH Dry Zonal Wel	KH, SIS, ESSE Dis Coopilies	ES, NS, SSPS, CHAIR BELLEVILLE, BARRO, STREET, CONSTITUTE CONSTITUTE CONTRACT	PR BG
ts	Makerical PRESERV December (by WHS Fire Zone)	GS, Rb, 82, G6, V5, 89, V9, V3, AS, RB, V7	G3, 60, Ru. A4, V6, 61, 69, 10	10 7 3 67.15.64.04 91,01.66	KI. ES, E3, (2, C). HO. PO. MIL 17, R1	H7. H
		2	20, 80	 	Sain Royal	25%
	Topography			T c	D	1
19	(Spects (>15th shape)	Mouth O	Fast	« 18% slate all asects	W ey 17	Ahod
15	Shirt (St)	5287	16-29 and man some	₩		- 15
	30.35000		ter feor phistogres	10	12	15
4	lenir	RV I		Seped terrale, ratinor (reveals of draws)	(orosalent slepe, steep filter to shallow guillars	Cancelleur Hope, deep gulles 10
τt	Landscape: Recognisher Limitations to Military Spread	< 5 has saluted forest Gard 1	Harth and/or earl aspect, dominate, widthing spread restricted from Seath and/or Mesi	Provides our bettam, it is had be septimely, regal as a special which and shape charages, analogie can be septimely on the septimely of the se	Balling ferrant, minor makes bedies, merimal sepert tod sleep (hasayes, make segmental to a spiffire salasti 10	Communey, requirement topography hosestration to middles used as
FUE	L, WIATHER AND TOPOG	RAPHY	-	MESARI	Seb Total	2.7 /3
	Structural			E	0	100 mm.
Ħ	Parities of Structure/ Community on Stope	Min Structures Values weakle 2 km P	Bottom of depe, valley settom	the sign bearing, elected rules, city sage	Mid-slope continuous, > 85% slope 12	Poper LF3 of Slage 15
ģ	Spr of Development	Ro Structures Waterd enthur 2 lan	Ammater Injection	Perseter Interface with micles ares	kiemu > 1 shirimaka 8	Missaus <1 sincture the Introduction 16
9	Palifer of Assessment Area Relative to Yalkes	No Structures Vales Mittel 2 for	Above >500 700-500 < 200 m 1 10 20	51d ANI >586 201-500 < JOD pt 1 12 25		>500 280-500 < 204 m
	only if fuel with intelligracity. In Structural component unity is limited I Score in 295 for uninested polygon:	ra linam		LIFT OF WHICH ARREST MANEERS	32 35 31	13 75 725
d Ne	# Behaviour Threat Class;	hack applicably class)		Wildland Urban R low 0-1 Moderate 14-2	nierface Threat Class	iheck applicable class

27

 $City\ of\ Kamloops-Wildfire\ Threat\ Assessment\ Picture-Plot\ 27$



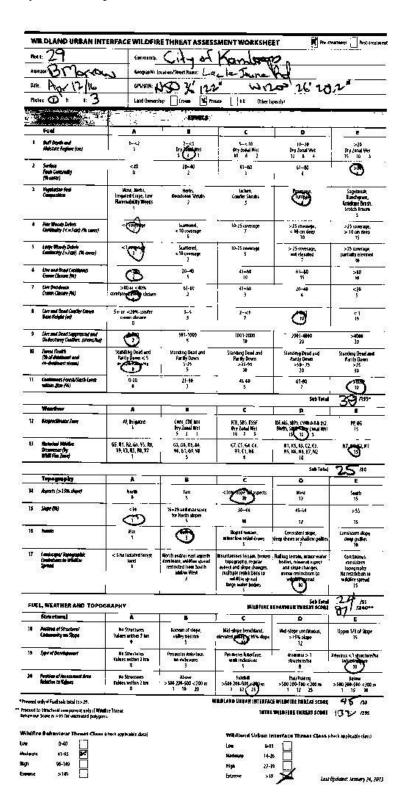
Photo 27-1 @ 250 degrees



City of Kamloops – Wildfire Threat Assessment Picture – Plot 28



Photo 28-1 @ 70 degrees

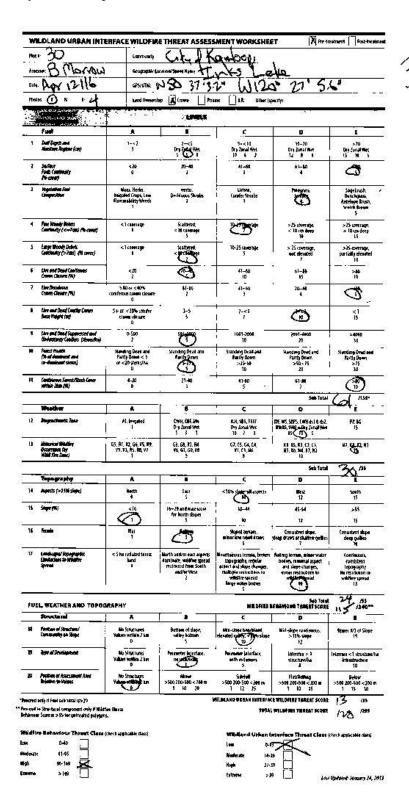




City of Kamloops – Wildfire Threat Assessment Picture – Plot 29



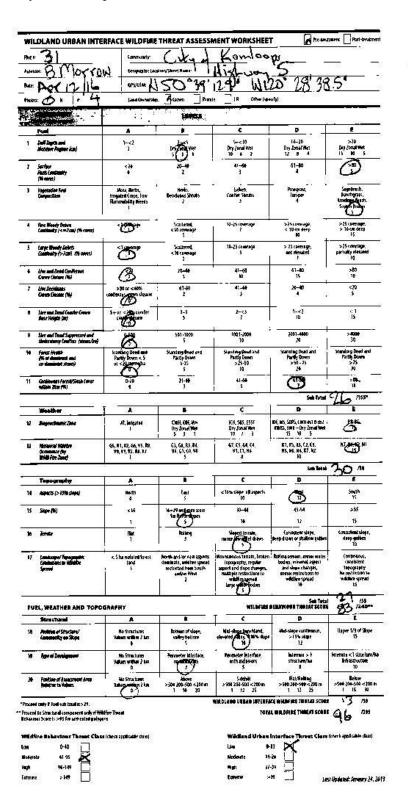
Photo 29-1 @ 90 degrees



 $City\ of\ Kamloops-Wildfire\ Threat\ Assessment\ Picture-Plot\ 30$



Photo 30-1 @ 90 degrees



City of Kamloops – Wildfire Threat Assessment Picture – Plot 31

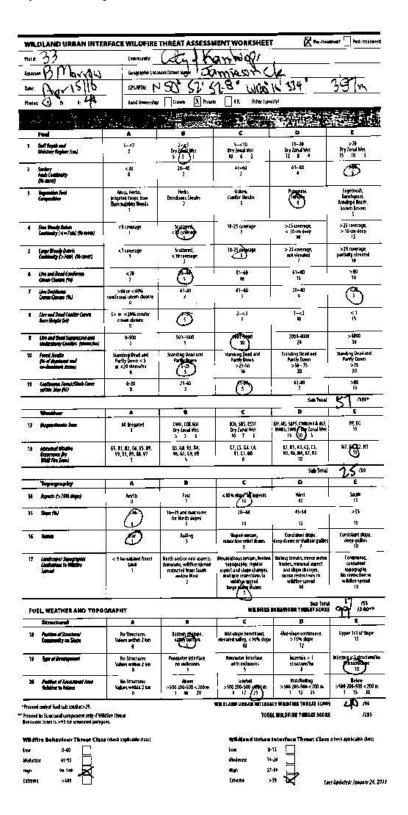


Photo 31-1 @ 90 degrees

	je Sehaylour Threat Clar (-4)			tom D-	Interfera Threat Class 13 — — 26 — 59	(check applicable dazul
Ette	i culp of feed was total to > 25 the Structural comparent orbity of W gr (copps: > 55 for writes) edited polys			MINISTANO VARAN HITERFA Tora	KE WALDFARE THREAT SCORE	7000
M	Position of Armonium Artif Relative to Values	No Sinatures Yulium within 2 ton 0	500 200-500 200m	Sector 5500 4240 m 1 12 25	Hat/Rableq >500 230-500 c) 1 12 25	>50+20+500 < 100 m 1 15 90
19	fige at Development	No Speciales Values in spins 2 has D	Per matery interface.	Perspeter fritering. With middlessed	bienui > l shulando 3	Internet <1 street in the later
10	Peacetan of Structures' Constructly on Stope	No Street at its Values setten 3 km	letentwister.	Mathers betchised, pleasing salley, <10% slope 80	Mis-alope confirmates, > 19% alope 	Uniper 1/4 of Nope 15
	Structural	A		c	0	E
FUI	EL WEATHER AND TOPE	GRAPHY	_	. 🕠	Sala Tatal Managerowa Therent Scone	21 55 93 240m
17	Landscape/ Sapagraphic Limitations to Window Spread	< 5 ha sollated forest Land	Herth and/or-skul drymatic physicals, wildfire spread restricted from South and/or West 2	Manufair cas certain, broben legergrafie, regulin supert and slope charges, malighe restricted sits writing upward target states.	Balling letters, namer water bodes, markeral aspect, and slope dranger, nation researchers to welchis spread 10	Condinuous consistent transprapting the restriction to mainting served 15
16	Name to	Hai 1	Setting 1	Suped terrain, many participal diseases	Consultent shape, deep draws or shallow gellies	Consistent slope. deep guillen
15	Slope (%)	<16	It—29 and tale score for Morth slepes	10		15
M -	Aprella (1) Str. physic	hore.		<16% slope all aspects	1) 1)	564th 15 >53
	Topography	•		i c		
	With Pire Evens	62	3	- 50	Sub Facus	2500
1	Historical Military Accurates (2) Historical Communication	66, k1, d2, 66, V9, R9, V9, V3, R5, 48, V7	63: G4; R3; R4; 16; G1; G4; N8	10 7 1 67.45, 64.44. 91, CI, 86	15 (15 5 11, K5, K3, C2, C3, M5, 16, M4, K7, M2	W. (13)**
12	Negracimatic dura	Af, Inigated	CHH, CHF, INH Thy Journal West	1 KH. SB5. E55F Bry Josef Pet 10 7 1	RE NS SEPS (WHIR) & OND, PARTS, VIEW PROP SOUND THE IS (16) 5	PP 8G 15
-	Westher	A			0	- I
1	Continues Forest/Sech (over within Jane (N)	0-2D 4	21.44 1	, N. 41	See Total	FIO 1195*
	(the of commences and co-december of times)		Standing Read and Partly Court 5-15 5	Paids Been >25-56 10	34	Partly Come 5/5 51
9	Live and Dand Suppressed and Unincolony Condition (States/Int) Forest Health	(a.5kg)	561-1066 5 Standing Brad and	1001-3000 10 Stanoony-Bead rest	2)41-4360 20 Santing Deed and Partly Down	>4004 10 Standing Peak and
	Live and Bend Graffe Group Base Melylic (II)	S+ ca <20% careler awayn dissure	5-5 5	(3)	1-c} 10	15
1	Erre Brothman Crown Chrone (NE)	construct of consciouse	6 1-40 2	11-60	,13—40 4	3
•	(for and these Continues Cream Classer (%)	470 7		10	61- 34 85	10
•	Large Weedy Bullets (pullbally (>700) (% 040)		Scattered. <10 coverage	10-15-rawerage 3	> 25 carre 26c	5.25 conseque, partially electric 10
3	See transp Debets Continuity (<=Jan) (% cores)		Subtract. <10 overage	10-25 coverage 7	> & converge, < 49 cm deep 10	> 10 cm coop 15
41000	Tegetatium Food Composition	Meed, HerPs, trequited Crops, Law Plan makility Weeds	Herbs Decidious Shraba)	Lichen, Feelfel Shrabs	friegats.	Sagdmedi, Buschgras, Autriege Brush, Sagdindgeem
3	Serine Finis Controlly (% core)	<10	29-44 2	41-b0)	11-90 4 —	<i>. O</i>
	And Septe and Maidles Region (cod	1-a)	Dip 3-e4 3 1 1	t—< NI Dry Corn# Wes 10 6 ≥	13-10 Or: Amel #el 12 3 4	Dry Forcel Ware 15 1P 5
400	Fuel			<u> </u>	D	· ·
ă,			LEVELY	1000000		
10401	D 4	Later Conners he	Turnet I first	z [] R Odnos (spec	ah)i	
o:	Bar 12/14	⊕ yulk	147 39	77 1212	D 24 7	3.74
oense	· O Mark	∑ Gergraphr los	alread/Sweet Mami	wais.		
t:	32	Community	(N 4 d 4	Jampos !		



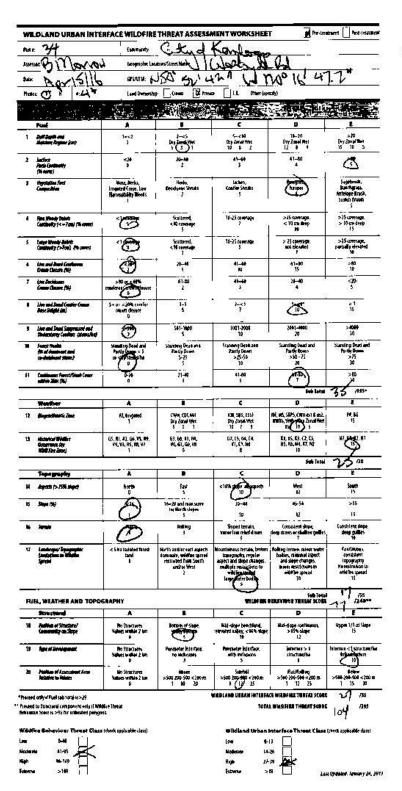
Photo 32-1 @ 315 degrees



 $City\ of\ Kamloops-Wildfire\ Threat\ Assessment\ Picture-Plot\ 33$



Photo 33-1 @ 90 degrees





City of Kamloops – Wildfire Threat Assessment Picture – Plot 34

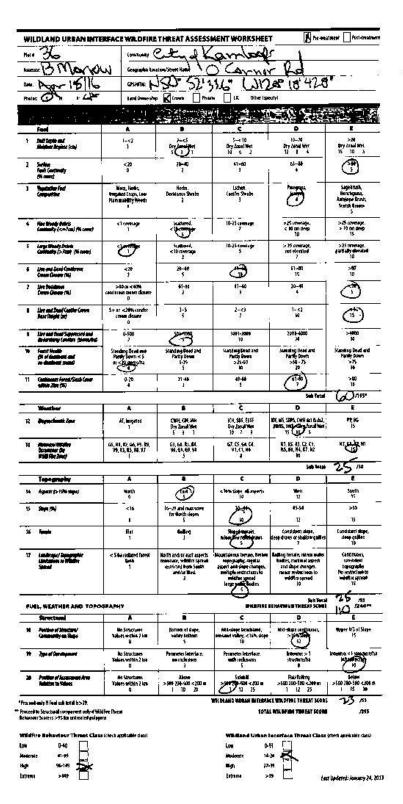


Photo 34-1 @ 270 degrees

euri	41-95 T				ът. □ ът. □	
	re Behaulour Three Clus 0-41	de Translage, a bibliot spige, a party)		lev #	Interface Threat Close 19	(crece approach days)
na.	to Structural companent only if Wi ii Score is >95 for amounted polyg	ans.			A WILDFLEE THINLED SCORE	
	only if Ruel sub total is > 29.			1 N2 25 WHEDLAND VESAN MITERA	1 13 25 CE WINDFINE THREAT SCHOOL	1 15 M
	Prottop of Assessment Area Relative to Values	0 No Structures Natives writing 2 late	>507.701500 < 200 m	5:00-00 >:204-200-200:e	Rab/flathing > 500 (160-560 c 200 m)	10 delect >S80 200-500 < 200 m
1	Type of Development	No Streetures Natives within 2 km	Petrase latelface.	10 Aprimental laterials a menty protessions	Aprilement > 3	Internet < structure?
	Fusion of Structure/ Community on Steps	No Structures Values within 7 km	Rottless of plays, 1988 Region	Nis-stope brechterd,	Mid-stope coefficients, >15% slope	Momen I/3 of Slage 15
	Structurei	A		Γ c	٥	10 1240***
UE	L, WEATHER AND TOPO	GRAPHT	ž.	. S Width	Sed Total	1 1 1240 ··
,	Lambage/Terographic Unitediate to Whatte System	< 5 kg replaned (teres) Band 1	Sorth sedfor each aspects deminate, widther spread restorted from South entities West	Nountaines beraie, broken begraphy, regular aspect and stope changes, mailsple restrictions to will dise spread large water bestes	Beiling terrain, releast water bedies, minimal expect and slope changes, land with the selection of the selection state of the selection	Continuous, ronulscem hopography Heart-Inction to sold fee special 15
	Service	Flet 1	Raling 3	Stoped berrain, British (Se refered Sant)	Comhitem depu, deep draws ar shallow gallen.	Consistent slope, sleep graffies 18
660	1-0000000		To North slapes	10	D	15
5	Steps (%)	, o	5 10-29 and new store	30-44	87 85-54	>55
1	Alpenta (>1500 alaye)	horts	Ear	₹16% Supraflugants	West	Seath
- 3	Topo graphy			c	p	23.0
	Discreme Ay 1006 Are Zone	19.193, RS. Rd. 47	V6. 61, GP, V6	in,Ce,ilia 6	NS, K6. M4. K7, M3 10 Sab Tintal	2500
	Herry Willer	65. Nr. 42, Gé. 43. NS.	Day Jonal Wet 5 5 1 G3.65, 13, R4	Dep Zonal Wet 16 7 3 3 .	85 10 5 Kh.15, E3. (2, C),	H2 X4-53 H1
	Republish inc	Allangued	CAN COLWH	KOM, SAPS, ESSE	ISS. No. SUPS. CHIHAM & day.	PL IA
	Weather				<u> </u>	55 nor
	Cambridge Formt/Slock Communication (Aug.	0.36	31-46 3	41-60 5	6)- 10 7	(40)
	Foret Buddh (% of destinant and co-destinant share)	Pauly lines : 3	Barrille Darven 5-25 5	#ge fp De ner > 25–56 10	Partijr Bown >50 - 75 30	Partily Brown >/5 .90
	Der and Dand Supermont and Darkestung Condines (Stansoffe) Famal Bookh	D-590 2 Specifing Dead and	Standing Dean and Burlly Daven	1001-2008 10 Standing Dead and Parify Dean	2091—4600 20 Standing Dead and Partily Bown	Jo Name of Dead and
	Use and Dood Cardier Comm Same Height Croj	anen dastre D	5			15
	CHAP CREATE INC.	Service Services	3-5	3 1-55	l-ethn	<u>(3)</u>
	(tre and Brail Configure. Comm Classes (NA)	>80 tr <86%	(T)	11-44 41-44	15 24-40	16
		رن	e Hichesape	§ 41—60	act elevated 7 61-90	Periodic electrical
-	Continuity (< =70%) (% contr) Large Woody Selects Continuity (> 20%) (% contr)	Sharen)	Sattered	10-25 contraje	< 10 um écep M > 25 coverage.	> 10 cm deep 15 > 25 coverage,
3	Firm Weavly British	Clanage	Settlered Settlered	16-25 co mrage	>25 toverage.	Scorenge.
	Vegetation ford Compaction	Moss, werbs. Integred Crops, John Runnichtity Bleeds	Herbs peadures Struks 2	(action, Courtes Struks		Sagroush, tranfigres, fritciage Brish,
	Series Reals Continuity (No contr)	<# style="background-color: blue;">< 20	20-40	41-40	61-60 ((*)
1	Part Begin and Notices Regions (cm)	1-c1)	Day 3 Con Wes	S-e M Dry Zonak Wet 10 B 2	16-70 Dry Zonal Mei 12 8 4	> 20 Dry Lornal West 15 10 5
	Puel	A	三十号 医动脉回收 点	<u></u>	0 D	3. 1 Page 1
				70	A. F.	
904	(C) 14	Lead Dwnesky		o [IL Danke		
e 100	4) 11 10 Va	CO ENDINANT IN	Many Street Band	CONTRA	TO PO	Q 4
	7.00	1,20	Jan 1	monto	40.1	_
A 1:	17.7	(generally		Character		



Photo 35-1 @ 350 degrees





 $City\ of\ Kamloops-Wildfire\ Threat\ Assessment\ Picture-Plot\ 36$



Photo 36-1 @ 225 degrees

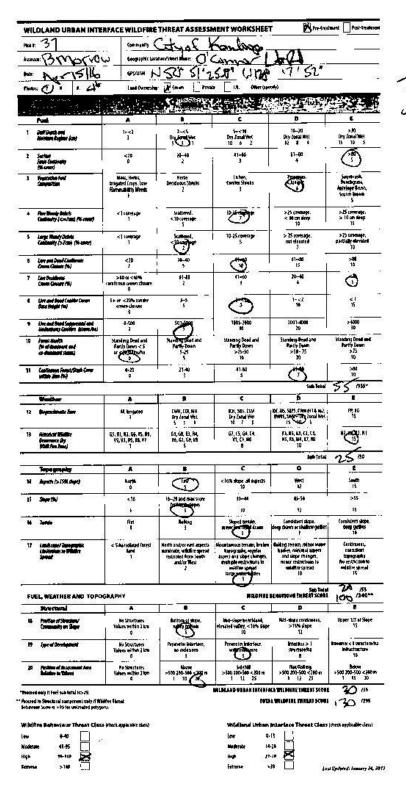
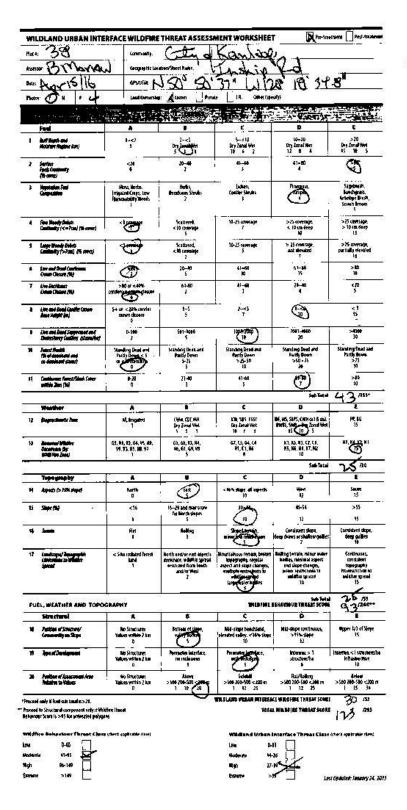




Photo 37-1 @ 360 degrees

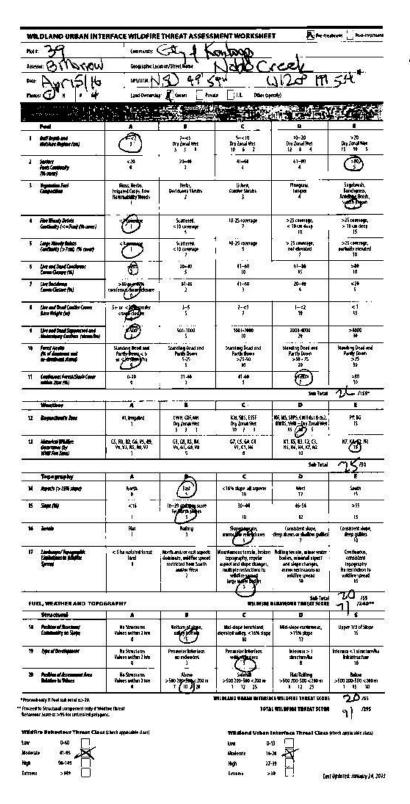




City of Kamloops – Wildfire Threat Assessment Picture – Plot 38



Photo 38-1 @ 110 degrees

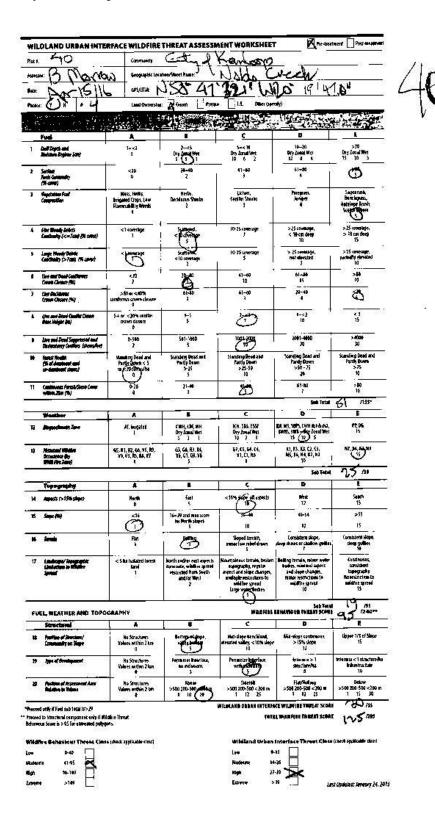




City of Kamloops – Wildfire Threat Assessment Picture – Plot 39



Photo 39-1 @ 280 degrees



 $City\ of\ Kamloops-Wildfire\ Threat\ Assessment\ Picture-Plot\ 40$



Photo 40-1 @ 360 degrees

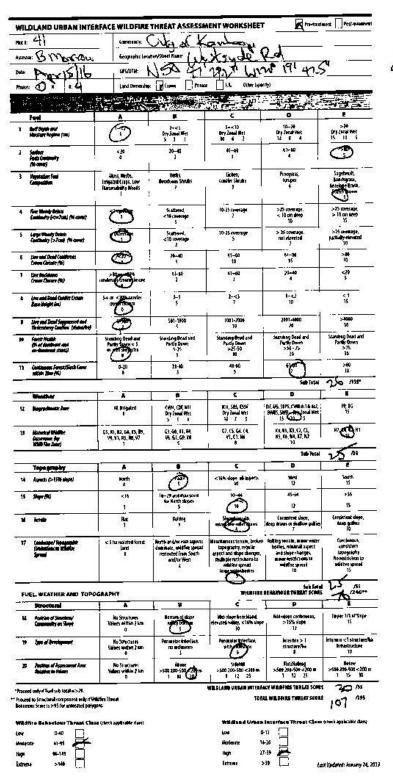




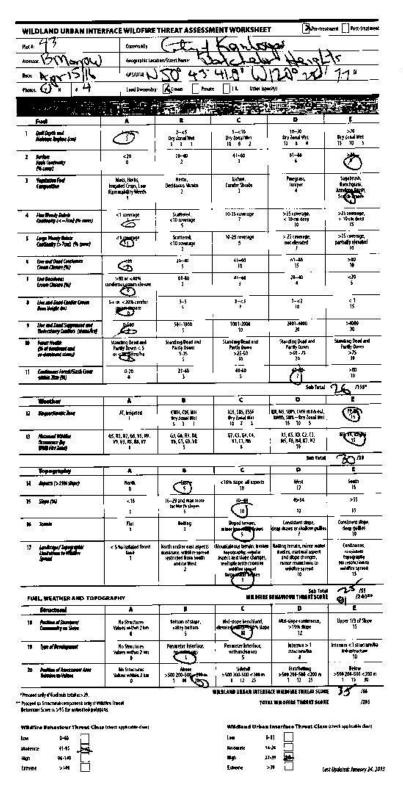
Photo 41-1 @ 270 degrees

Hdfi •	ra Baharrinur Threat Clas	s (theck applicable class)		lau f	Interface Threat Class	icheck applicable dandi
ecred	(erig II feel ook total Lo-29. Ny Seneteral component only d'Wi Ny Seneta >95 for univented polyty				A THI LO FINE THE REAL SCHOOL	
*	Pedition of Assessment Ame Religions to Yolges	No Sewichires Values and an 2 han 4	>500 200-500 10 N	>500 200-500 < 204 m 1 12 25		5500 700 500 < 200 50 1 15 00 2 00 /36
p	Igo el la depund	Na Structures Values methor 2 law g	-	Penavater Interface. write-indiaseres	Artenaus > 1 San Carrella	Informer of sinchenda bitrastructure 16
=	Funiture of Streetmen! Community on Steps	No Structures Nations within 2 km	Beltine of stope.	ind-slope benefited, elected valley, < 16% slope 10	Mid-door (untinues), >15% singe 12	Upper V/J of Slope 55
-83	Structural	, SAS		c	D	(.
FUE	EL, WEATHER AND TOPO	GRAPHY			SAN FACINITY THREAT SCOOL	83 240
	Ladrape Spopaphi Lintains is Midle Send	Ervi 1	derivings, while years semound from Seeth and/or West	hipsgraphy, regular aspect and stope changes, smithele regular by the speed large presidents	bedies, minimal egest and slope changes appearances so waiding spread 10	roruldent topography hosestrictom to midifies source 15
H 17		Runi	Fielding 3 Month and/or each appects	Voped terrain, spaper jou reject dus un §	consistent slope. desg transfel distillation quilles. The Realing terrate, release welfer.	(orginiers siege, Berg gulles 14
ĸ	Sept (14)	1	for North Stopes S	3 1-64 10	٥	15
14	(Mark Strong	keds b	(2)	<16% days all asperts #	12	
1.53	Tenegraphy		I	L	D	6000
_		- 10	1 -		Sale Form	30 m
li	Michael Mittelies Deservoir (by 1946 Fire Zant)	66, 81, 82, 66, 95, 89 19, 93, 85, 81, 17	63, GB, R3, B4, Y6, G1, 69, YB, 3	67.65,64.64, 91,61.86	41, NS, IG, C2, C3, NS, L6, H4, K7, N2 10	Hat. Carpet
u	Singuesticosis, Sono	AT, inigates	CWH, (M) WH Gry Assaul West S 3 1	ICII, SBS, ESSI Bry Zonel Mel 10) 3	ED, NS. 5895, (WALE, T.E. 4), BMTS, SHITE—Bry Jonal Wet 15 10 5	
	Weether				.6	Ē
	within Jan (%)	Ĭ.	1	5	Seb Total	1835
	Force House, (in of deathers, and as deathers (tons) (anthone: Force Sinch (store	Paraly Sown 45 or 4 Paraly 0-20	Partis Down 5-25 5	Party Bener > 25-50 W	59-5 25	>75 H
_	Dee and Dead Suppressed and biodessiancy Comitics (stress-line) Forces Housek	Standing Drud age	Standing Bead and	10	State ling Dead and Parity Down	>4660 30 Standing Dead and Purdy Gown
	Live and Denil Gooder Comes Sone Polyte (m)	Ser or commenter	501-180	1001-2004	10 2401-4900	15
٥.	Line Decidences Green Charms (No)	mean (con) (next	¥5 · −	2-41		<20 5
	Line and Speed (purificances Creater Classific Phi)	- 30 pr	10-40 5 01-60	61-60 10	41—80 15 	>#0 14 <20
	(age blook Prints Continuity (>-7cm) (% cores)	(C)	Californi,	11-25 coverage	> 25 coonsign, not directed T	>25 coverage, partially elevated by
	Film What's Debrit Continuity (< 427,000 (% cover)		Scallered. c 10 coverage 5	iquis awaqe i	>25 colerage. c 10 m deep to	> 15 countries; > 16 con deep 15
	Compression	Impated Copy, Copy Figure Ability Wests	Declificates Stands	Confer Servin	(lenper 1	Anishquess. Anishque Bush. Setter Byum
	Service Fack Constrolly (N. const) Vegetation Fact	420 0	10-40 1	61±60 3	negate,	Sagetrush
	Dall Signer and Ministers Reptime (cm)	ð	?– <i ory Amal Wet i i i</i 	Smc10 Bry Zosal Pet M2 6 2	10—74 Dry Zonal Wet 12 B 4	>28 Ory Zenal Wet 15 IO 5
_	Pool	Α		¢	D	E
house	4	Land Demarks			O. 4. 444.7	ALT COM
ube.	100 15 16	GAZIAJA: 🚩	RED 42, 28	1 0120	11,183,0	
1460	Burna	C) Geographic Lea	DOON/Street Blank	aug Ad-	Nepton	10
_	56.54.55.77			Hamba	W-1	

City of Kamloops – Wildfire Threat Assessment Picture – Plot 42



Photo 42-1 @ 270 degrees



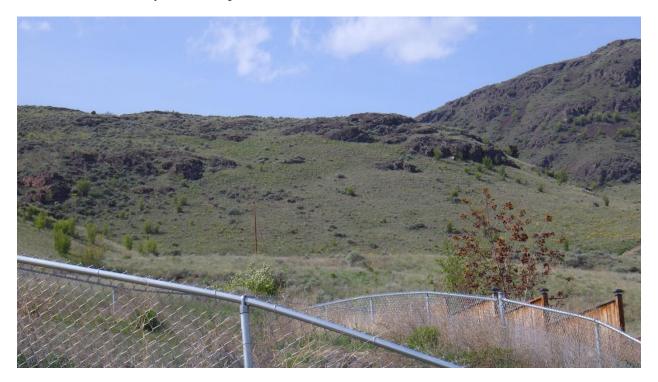


Photo 43-1 @ 290 degrees

Pło	u: 44	Communit	v C. D E	2		NAME OF TAXABLE PARTY.
	0,00		- my	Dantad	b 11	h —
_	D 1 0110	-	Location/Street Hame:	yatch e	or their	KIS
_	· 50x1211P	GPS/UTM:	NS0 9.	3,355 P	1220 23	15.7"
	itos: O N s: 4	Land Owner	riship: 🕊 Crown	Private I.R. Othe	r (specify)	
()			LEVELS			7.7
_	Fuel	A	В	Ċ	D	E
1	Duff Depth and Moisture Regime (cm)	3	2-<5 Dry Zonal Wet 5 3 1	5-<10 Dry Zonal Wet 10 6 2	10—20 Dry Zonai Wet 12 8 4	>20 Dry Zonal We 15 10
2	Surface Fuels Continuity (% cover)	<20 0	20-40	41-60	61–80	3 10
3	Vegetation Fuel Composition	Moss, Herbs, Irrigated Crops, Low Flammability Weeds 1	Herbs, Deciduous Shrubs 2	Lichen, Conifer Shrubs 3	Pinegrass, Juniper 4	Sagebrush, Bunchgrass, Antelope Brush
•	Fine Woody Debris Continuity (<=7cm) (% cover)	Coverage	Scattered, < 10 coverage 5	10-25 coverage 7	>25 coverage, < 10 cm deep 10	>25 coverage > 10 cm deep 15
5	Large Woody Debris Continuity (>7am) (% cover)	<1 coverage	Scattered, <10 coverage	10-25 coverage 5	> 25 coverage, not elevated 7	>25 coverage, partially elevate 10
	Live and Dead Coniferous Crown Closure (%)	3	20-40	41–60 10	61–80 15	>80 T0
	Lire Deciduous Grown Clasure (%)	>80 or <40% conifereds crown closure	61-80	41–60 3	20-40	<20 5
	Live and Dead Conifer Crown Base Height (m)	5+ or <20% conifer	3-5 5	2-<3	1-<2 10	< 1 15
	Live and Dead Suppressed and Understony Conifers (stems/ho)	8	501-1000 5	1001-2000 10	2001-4000	>4000 30
	Forest Health (% of daminant and co-daminant stems)	Standing Dead and Partly Down < 5 or < 20 atems/ha	Standing Dead and Partty Down 5-25 5	Standing Dead and Partly Down > 25-50 10	Standing Dead and Partty Down >50 - 75 20	Standing Dead an Partly Down >75 30
	Continuous Forest/Slash Cover within 2km (%)	0-20	21-40	41-60	61-80 7	>80
	Weather				Sub Tota	26/155*
_	Biogeochmatic Zone	A	В	c	D	E
_	Historical Wildfler	AT, Irrigated	CWH, CDF, MH Dry Zonal Wet 5 3 1	ICH, SBS, ESSF Ory Zonal Wet 10 7 3	IDF, MS, SBPS, CWH ds1 & ds2, BWBS, SWB — Dry Zonal Wet 15 10 5	43
	Occurrence (by WHB Fire Zone)	GS. R1, R2, G6, V5, R9, V9, V3, R5, R8, V7	G3, G8, R3, R4, V6, G1, G9, V8	G7, C5, G4, C4, V1, C1, N6 8	K1, K5, K3, C2, C3, NS, K6, N4, K7, N2 10	N7 CIS N1
	Topography		T		Sub Total	30 ³⁰
	Aspects (>15% slope)	North	East	C	D	E
			5	<16% slope all aspects 30	West 12	South
	Stape (%)	<16	16—29 and max score for North slopes	30-44	45-54	>55
	Terrain	- 1 Flat	5	1	12	15
		ĵ.	Rolling 3	Sloped terrain, miner low relief draws	Consistent slope, deep draws or shallow guilies	Consistent stope, deep gullies 10
5	andscape/Topographic institutions to Wildfire gread	< 5 he isolated forest land 1	North and/or east aspects dominate, wildfire spread restricted from South and/or West 2	Mountainous terrain, broken topography, regular aspect and slope changes, multiple restrictions to wildfie and d large water brities	7 Rolling terrain, minor water bodies, minimal aspect and slope changes, minor restrictions to wildfire spread 10	Continuous, consistent topography No restriction to wildfire spread 15
EL,	WEATHER AND TOPOGE	RAPHY	*		Sub Total EHAVIOUR THREAT SCORE	33 /55
5	itructural	A	8	C	D STOKE	9 1 /240** E
Ô	osition of Structure/ ommunity on Slope	No Structures Values within 2 km 0	Bottom of slope, valley bottom 5	Mid-slope benchland, elevator railer, slope	Mid-slope continuous, >15% slope 12	Upper 1/3 of Slope 15
Ŋ	ipe of Development	No Structures Values within 2 km 0	Perimeter Interface.	Perimeter Interface, with inclusions S		Intermix <1 structure/Infrastructure 10
Re	osition of Assessment Area elative to Values	No Structures Values within 2 km 0	>500 203 600 \$200 m 1 103 0	SidehNI >500 200-500 <200 m 1 12 25	Flat/Rolling >500 200-500 < 200 m 1 12 25	>500 200-500 < 200 m 1 15 30
50	y if Fuel sub total is>29, tructural component only if Wildfire ore is >95 for untreated polygons.		V	VILDLAND URBAN INTERFAC TOTAL		23 155 1295
• E	Sehaviour Threat Class (ch 0-40 41-95	eck applicable class)		Wildland Urban In Low 0-13	terface Threat Class (c	heck applicable class)

44

 $City\ of\ Kamloops-Wildfire\ Threat\ Assessment\ Picture-Plot\ 44$



Photo 44-1 @ 270 degrees

WIL	DLAND URBANINTE	RFACE WILDFIRE	THREAT ASSESS	MENT WORKSHEE	T A fre-be	rtment Post-treatme
ina	.0.58	(conventy.	Cityal	Kamlor		
ue:	= BINDOWN	3 Geographic Lo	rational/Screen Warn ()	ord Ka	old	
rle:	Dax15/16	GPS/UTN: A	150°41	423" L	3120° 2	3' 36.9'
heid	On 14	Land Dissersit	p K town Pro	nie 🗌 Lis. Onher lap	enți	06: HA 11024
		12.05		学生相似	学业家	- TO-10
	Fred	A		Appending	0	and the second
ī	Contribution of) Joseph	ž-«5	5-<10	10-20	⊳સ
	Missian Regime femi	(0)	Ony June 1 Wes	Dry Zonad Met 10 6 2	Dry Zorul Het 17 L d	Dry Zorad Wet 15 10 5
2	Surface Fresh Continuity (N consult)	0 <10	; 2 p-40	41-60 3	61-36	3
3	Tegetation fact Composition	Mess. Hories Impaged Drops, Lear Frammability Weeds	Herbs Decid sous Shreibs }	Lichen, Lenife Shabs 3	Panegrass, Justifier d	Sagernak, Benchassa, Astriego Brush, Scelat Bruers
4	Fine blandy Betwis Continuity (Confee) (In cates)		Scattered. <10 continue	10-25 compage 7	> žš communge. < 10 cm deep 10	>25 coverage. > 10 on deep 15
5	Later Month Debits Continuity (>7cm) (No.com)	· (35)	Scarnerd, <10 coverage	10-35 свинаде 5	> 15 corerage. not desirted ?	>25 ramanje. partizily devoked 10
٠	Lim and Dead Guilleon Green Country (NG	63	20-40	41–46 19	61-60 15	> 50 10
7	(der Berickens Corne Great (%)	sentence (1994)	61-61 2	11-40 3	<u>∤o—to</u> 4	-2N 5
i	Her and Dead Coules Group Succession (m)	S+ar < 200 gorder	3-5 5	2-c1 7	1-<1 10	<1 15
9	Live and Dead Suppressed and Orderstony Contines (researched		501-100a	1091-2099	2001-4000 24	>440
+		Standing Dead and	Standing Best sad	Nanding Beat and	Stanting Dead and	Scambing bead and
080	Ferst Redit (F of deathest and or deathest statu)	Partly goves c 5 or 270 Hearthi	Partly Delen 5-25 5	Path Deen >25-50 10	Partly Down >50 - 75 28	Parely bown >75 34
11	Continues Formi/Stack Communication (See Fac)	0-26	31 .44 3	61-66 S	(T)	>40 1F
	12.112.00.00.00.00.00		8.0		Solt Total	26/159
1.69	Weether	A		E	D	1
12	Regardency Inc.	AL trigated 1	CWH, ENF, WH Day Excul Wet 5 5 1	KH, NDS, ESSE Dry Zonas Wet 10 7 3	NDF, NES, SEPS, 4 WITH HEST B-CEQ. NEW TS, SHAN — Day Bornah Weet I NS 10 S	43
ы	ittarical Mathe Assertate (by Mathematic)	GS. RF, N2. GA. 45. 69. 49, 111, RS. RB, 97	69. 66. NJ. R4. V6. 61, 69. V8 S	क्ष. छ. छ. छ। ४१.६१. ॥ ४	K1, IS, IS, C2, C3, IS, 69, IH, IC, N2 IO	W.C.Sm
			•		540 Total	'50°
80	Tops graphy			C	0	E
u	Aspects in 1996 shapes	North D	Fast S	cises stope all aspects. 10	West 12	(35)
Ľ	Ships (N)	<16 f	16-29 and may some the Barth slopes 5	10	45-54 12	>55 15
ĸ	<u>Symbol</u>	An I	Reffreg 3	Stood terrain, money of the Street	Consistent slope. deep draws or shallow yellles 7	Committed player. deep guillets 18
17	Emilional Representati University of Maller System	< 5 ha polated larest land 1	Month and/or each expects dominate, what've spread neithford from South and/or West 1	blooms terrals, broken topography, regular sized and door changes, scaling terral notions to wild be separate large series believe	Balting imists, minor water baltin, mistraal aspert and dept disasper, minor mistra (mos to mistra spieze 10	Continuous, rompidant impegrachy Noneuricion to weld five speed 15
614	EL WEATHER AND TOPO	GRADUT	d .	wal he had a	Sab Total MOSE TALLET SI SUMMERS	35 /ss
-	Structural	A			Ö	9) 1248** E
10	Austion of Structure/ Commonity on Stope	Respirates Values within 7 km	Jacon of days	Mid-skeps benefitiers, elevated valley, < 16% sleps 16	Mad-depe continuous, >95% singe 17	Upper 133 of Slope 15
19	Spr of Anniquest	No Smicrores Values while Z bri	Persece bleface	Pervisor latertace with inclusions	jaterna > 1 stretante	istemus -c1-structure/1 influetracium 10
20	Parties of Assessment Area Bristine to Values	Po Structures Values while 2 km	>500 TO-20125Hrp	Sect-M >500 200-500 < 200 m		\$ekru >544-204-504 < 200 p
cod	erily if Plant, such peraj (55-)20 to Stanctorial compensest only if III if all Scare to 1985 for unbreased polygo	idine Neest	1 10 120	E 12 25 Welstand undan interfa Tota	1 12 25 CE WILLIAME TRABAL SCORE L'IRLIAME TRABAT SCORE	
dea h	%-149	s jehoeds ag pik able «lase)		Low q- Moderate 14	.16 ☐ -19 4 €	ioveck applicable dassi

 $City\ of\ Kamloops-Wildfire\ Threat\ Assessment\ Picture-Plot\ 45$



Photo 45-1 @ 315 degrees

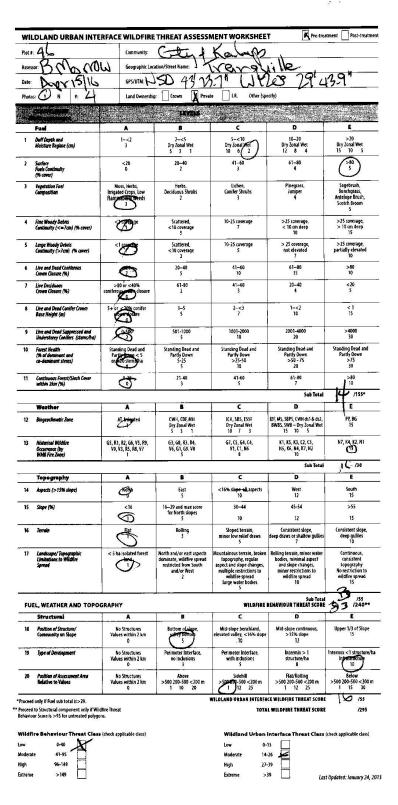






Photo 46-1 @ 180 degrees

mati	re Bekaylogr Threat Clas	on (rhech approxime dass)		kom D	Interface Phront Class	(check applicable dam)
teesd	only of Equil sub totales > 29. to Structural coreporary order if Wi or Score is > 9) for universely golyg	lidfre libeal Nos			L WEPFIRE THREAT SCAN	7000 E1800V
1800	history when	VALUE OF THE PARTY	>500 100-500 < 210-m 1 M 20	5500 7003-500 €340 m 1 12 35	>500 ASE-500 PI 1 12 25 LCG WILDIGHTE TRIBLED SCOOL	>500-700-400 < 100 m 1 15 30
19	Type of Development Position of Assessment After	Na Streetures	Perjuisier Interlece, pp metantions }	Penseter Intel 206. with undersore 5	brieran > 1 succureño a Actriolog	imeratus 1 pencionet infrastructure 10
u	Position of Structure' Community on Steps	ka Structures Varies addis 2 km	Sectors of dispa, sality bottom 5	Mach slape bene bland, elevated radies, < 16% place to	11	Upper L/S of Slope 15
	Rectard		_ ·	€	[D	
FUE	L WEATHER AND TOPO	KRAPHY	<u> </u>		Section of the Sectio	30 55 9) 240**
17	Ladepolitique public Liedation in Wheter Spread	<5 ha molaced farest tand 1	North profes not aspect desusate, whether speed registed from both and/or Nert 1	Mountaines terrale, trotori Oppgraphy, registal aspect and stope changes, multiple restrictions to wild the special large yestery by the	: Author terrors, misor water bodies, misorial expect an 6-dope changes, misor restrictions to misolar agraph 10	Continuous, romaisterni lopography Monestriction to relative spread 15
¥	Armir	Rat 1	Reling 1	Stoped terrola mora la monda de mo	Consistent dape, Geep Brans on studions guillest	Consument slope, Scop pullers
15	Supr (P4)	اد	11-29-salen xiri	<u>20</u> 44 16	45-54 12	35Å
14	Aspects (>17% stope)	Howth 4	Fast S	< 16% stope all aspects Id	12 12	_(15)
53	Lebedarbph			E	D	(m)
	20 22 202		355		Sale Testal	30%
13	Microscol Width: Constraint (by Mills File Zine)	GS, RB, R2, G6, VS. R5, V9, YJ, R5, R6, V7	63, 68, RJ, BM, W5, 61, 68, V8	GT, CS, GA, CA VI.CT, HF	K1, NS, EB, C2, C3. HS, K4, NI, NT, NE 10	H7 (12 Kg) 1
13	Cognicionals June	AT, Briggered 1	CHANG COFFEEH Day Zonal Wec 5 5 1	TOTAL SAIS. ESSE Dep Zornal Wet. 16 7 3	NF, NS, SUPS, CNTHels 1 & etc. PMTRS, SWB — Day Zonah Wes US 10 5	3
_	Westher	Ā _	1	_ (Ö	E
n	Continues Prost/Slatt Core within 20m (%)	0	()	5) To Some Ballado	(10)
	(F) of descious and or descious picture	Parity Down < 5 in < 20 stems ha in	Partie Count	Partly Coun > 25-50 16	Parity Down >54-75 20 81-86	Partly Down > 75 30
9	Dee and Deed Supposes and Maderalancy Conflex (Merculles) Forest Health	Svending Bread and	Sol-1000 S Standing Dead and	10 10 Sumiting Does and	2009-4000 24 Standing Deskand	Selection 34 Partity Development Partity Development
	Live und Deut Contier Groun Best Reight (et)	S+ ar c M+ confer	3-5 5) 	1-c1 H	< 1 15
ī	(Per Distributes Comm Classes: (%)	SO OF CAPE	41-60	4treff J	21 ⊢1 0 .	4.20 3
	(See and Dead Conflorate Crosse Chases (N)	0	70 -4 0	#1 -6 0	61—80 15)P = N
5	Congression of Parists Continuity (> 70m) (for (pres)	0	Scattered, < 10 coreside 2	H-25 coverage	> 25 (meraps. set devated T	>25-correlage. partially elevated ig
35	Fine Hundy Debet. Continuity (<=First (N 0000)	9	Sutterek < 10 roverage 5	10-35 avenge 7	>25 (esetago, « 10 cm deep 10	>25 (energe. > 16 cm dees 15
	Republier for Composition	Mest, Horles, Imputed Grops, Lew Rammability Weech.	Herto. DerMican Streto	Listen, Carifer Shiebs]	Pacgrax Jariper	Soprimus, Beneficias, Aptricop Brash Scand Report
	(artice (agh (antinuity (% anny)	<20 0	24-40	41-40	ூ	5
1	Darff Capt's and Mariana Regime (car)	<u></u>	2-c5 Dry Zonali Wet 5 3 1	S= <m Dry Zonal Wet 10 6 2</m 	16—20 Bry Bonel Win 12 4 6	> 30 Dry Consil Wet 15 10 5
-00.0	Fuel Control	A	23) A C - 24	¢	0	1
4	1 2 Y		建在		不管是	
elos:	() · · 4	Land Swinership			333	
le ·	My C Broke	GPS/UTIL 12	35 1521	21 (2)12	9 33 28	
	11/11/	Commission	HOME STORES HOME:		<i>C</i> 1	
## ###################################	41	Constants		Same		100

City of Kamloops – Wildfire Threat Assessment Picture – Plot 47

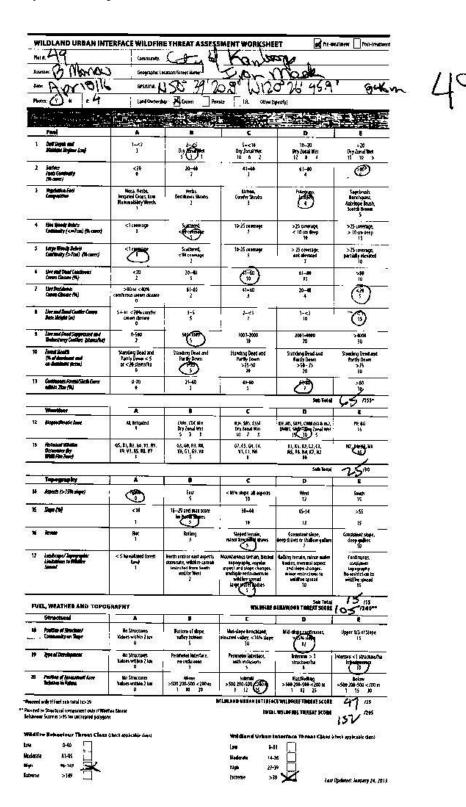


Photo 47-1 @ 360 degrees

P	lot#: 48	Community	Cutu	d Kan	roger	
A	SSESSON BY	11. Geographic	Location/Street Name:	Pinevie	- A.	
D.	HEROLIBINGA SE		N50° 2	8 54 1.	1170002	110
P	notos: (Y) N J: 4	Land Owne	7		נע נעורנ	57-0
		Control of the contro			(specify)	CONSISTE VIDEOUS CO.
		1 1 1		1.7.8374		
1	Fuel Duff Depth and	A lead	B	<u> </u>	D	E
_	Moisture Regime (cm)	1-<2	Dry Gradwet	5-<10 Dry Zonal Wet 10 6 2	10–20 Dry Zonal Wet 12 8 4	>20 Dry Zonal Wet 15 10 5
2	Surface Fuels Continuity (% cover)	<20 0	20-40	41—60 3	61–80 4	(30)
3	Vegetation fuel Composition	Moss, Herbs, irrigated Crops, Łow Flammability Weeds 1	Herbs, Deciduous Shrubs 2	Lichen, Conifer Shrubs 3	Pinegrass, Juniper 4	Sagebrush, Bunchgrass, Antelope Brush, Scotch Broom
4	Fine Woody Debris Continuity (<=7cm) (% cover)	<1 coverage 1	Scattled, < 10 coveringe	10-25 coverage 7	>25 coverage, < 10 cm deep 10	>25 coverage, > 10 cm deep
5	Large Woody Debris Continuity (>7cm) (% cover)	<1 soverage	Scattered, <10 coverage 2	10-25 coverage	> 25 coverage, not elevated	>25 coverage, partially elevated
6	Live and Dead Coniferous Crown Closure (%)	<20 2	3	41–60	61–80 15	>80 10
7	Live Deciduous Crown Clasure (%)	>80 or <40% conferous crown closure 0	61-80 2	41-60	20-40 4	0
8	Lire and Dead Conifer Crown Base Height (m)	5+ or <20% canifer crown closure 0	3-5 5	Ø	1-<2 10	<1 15
9	Live and Dead Suppressed and Understorey Conifers (stems/ha)	0	501-1000	1001-2000	2001-4000 20	>4000 30
10	Forest Health (% of dominant and ca-dominant stems)	Standing Dead and Partly Down < 5 or <20 stems/ha 0	Standing Dead and Party Down	Standing Dead and Partly Down >25-50 10	Standing Dead and Partly Down >50 - 75 20	Standing Dead and Partly Down >75 30
11	Coatingous Forest/Siash Cover within Zian (%)	0-20 0	21-40 3	41-60 5	61.80	>80 10
0	Weather				Sub Total	
2	Biogeochinatic Zone	AT, Irrigated	CWH, CDF, MH Bry Zonal Wet 5 3 1	ICH, SB5, ESSF Dry Zonal Wet 10 7 3	IDF, MS, 58PS, CWH ds1 & ds2, BWBS, 5W3 y Zonal Wet 15 10 5	PP, BG 15
13	Historical Wildfirz Occurrence (by WMB Fire Zone)	G5, R1, R2, G6, V5, R9, V9, V3, R5, R8, V7	G3, G8, R3, R4, V6, G1, G9, V8	G7. C5, G4, C4, V1, C1, N6	K1, K5, K3, C2, C3, N5, K6, N4, K7, N2	N7,4545, N1
_					Sub Total	1 5 /30
	Topography	^		C	D	E
•	Aspects (>15% stope)	North	East 5	< 16% stope all aspects	West 12	South
s	Stope (%)	<16	16—29 and max score for forth slopes	30-44	45-54	>55
6	Terrain	Flat 1	Rolling 3	Sloped terrain, minor fow relief draws	Consistent slope, deep draws or shallow gullies	Consistent slope, deep gullies
7	Landscape/Topographic Limitations to Wildline Sprisad	< 5 ha isolated forest land 1	North and/or east aspects dominate, wildfire spread restricted from South and/or West 2	Mountainous terrain, broken topography, regular aspect and slope changes, multiple restrictions to wildfins spread large wifer hodies	Rolling terrain, minor water bodies, minimal aspect and slope changes, minor restrictions to wildfire spread 10	Continuous, consistent topography No restriction to wildfire spread 15
UE	L, WEATHER AND TOPOG	RAPHY		WILDFIRE	Sub Total EHAVIOUR THREAT SCORE	91 /240**
	Structural	A		C	D	E E
	Position of Structure/ Community on Slope	No Structures Values within 2 km O	Bottom of slope, valley bottom	Mid-slope benchland, elevator valler, 16% slope	Mid-slope continuous, >15% slope	Upper 1/3 of Slope 15
	Type of Development	No Structures Values within 2 km O	Perimeter Interface, in inclusion, 3	Perimeter Interface, with inclusions		intermix < 1 structure/ha Infrastructure 10
	Position of Assessment Area Relative to Values	No Structures Values within 2 km 0	>500 200-500 200 1 10 20	Sidehiti >500 200-500 < 200 m 1 12 25	Hat/Rolling >500 200-500 < 200 m 1 12 25	Below >500 200-500 <200 m 1 15 30
ed to	nly if Fuel sub total is>29. Structural component only if Wildfir Score is >95 for untreated polygons.	e Ihreat		VILDLAND URBAN INTERFAC	A 100 000	37/55
ifira rate ne	9 Behaviour Threat Class (d 0-40	heck applicable class)		Wildland Urban Ir Low 0-13 Moderate 14-2 High 27-3 Extreme >39		heck applicable class}



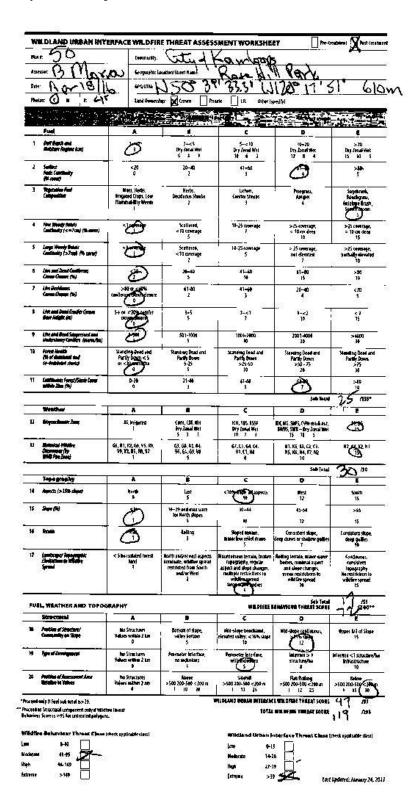
Photo 48-1 @ 270 degrees



 $City\ of\ Kamloops-Wildfire\ Threat\ Assessment\ Picture-Plot\ 49$



Photo 49-1 @ 270 degrees



 $City\ of\ Kamloops-Wildfire\ Threat\ Assessment\ Picture-Plot\ 50$



Photo 50-1 @ 360 degrees

2.03	REDEAND URBAN INTI	ZIII ACE MILDI M		TT		estiment Post-common
Pet	* D /	Comments.	<u> </u>	Kanya	75W	
hype	THE BY MOTOR	4 Geographicu	xahan/Sheet Hunz:	You Hill	Port.	
Dave	II Black	GISATIN: [-	1500 39 2	511 1710	8 17 45 %	
Phel	In /h I LAT	Land Description		ps Lk Operis		
3 y 2		4		4,14		
	7.72				1	
	Fuel	Α		C		_
1	Del Parts and Moster Regime (cm)	<u> </u>	2—<\$ Dry Zorud Wet	Smc to Dry Zenal Well 10 4 3	H=20 Dry forsal Mec 12 B 4	15 to 5
1	Sardinz Pauls Connellouity (No connell	< 20 g	70-40 3	61-e0 3	n1—80 4	(
3	Republica Fool (ampublica	Noss, Heris, Impated Crops, Law Flam mobility Weeds	Herto, Derikana Saraka J	blothess, Conflor Shastes 3	Palegrati, leniper d	Sagelrish Bendaguni Anreline Linsh
4	fam Handy Points Continuelly (configure)		Scattered. < 10 correspo 5	10-25 ce proage 7	> 15 tawange, < 10 on thep 14	> (5-rowrage, > 10 on deep 15
3	Laspe Wordy Balets Contrastly (>7cm) (No come)	0	Subjected CM concurse 2	10-25 contrage 5	2 25 sprenge, acc densed 7	>15 coverage, partially electors
٠	Uter and Dead Cashillanes Cresso-Change (Fil)	Ø	20-42 5	41-60 10	67—16	>80
1	(Art Bussianus Crosse Cleaner (Ni)	condense of the chare	51-10 2	41-60 3	20-44	<# 5
•	Live and Stead Courter Crown State Height (M)	5+ or < 20% consider crofmo _c closume 0	i i	1-43	l-cz H	Ø
9	Circ and Deed Suppressed and Circlestony Conflict (Messache)	0-500	Sorrison	10	2840-4800 N	5- 161 0 30
*	Forest Hoolik (% of department and or-designment (Forest)	Standing Dead and Purify Course 5 or CZO Stages/ha	Standing Bead and Reddy Deam 5-25 5	Standing Bread and Partly Deam > 25-50 10	Scanding Deed and Partity Boson >50 - 75	Stending Deed and Partity Dead > JS 90
n	Continues: Forest/Stank Contr milities Jims (Na)	ўн °	21-40 3	61-60 3	. 🕭	110 10
	Westler	18 2		1 12	last local	42 m
u	Noprochessic Zeer	AT, inigales	CMH, CPF, MH Stry Josef Wet 5 3 1	ICH, SBS, ESSF Bry Zonal Bel IG 2 3	000, NS, 5985, (WH as I ded s.) DMBS, 5986—They donal life: 15 16 5	C 5
U	Michael Milde Character fly Mild Fly Zand	65. R1, R2, 66, Y5. R9, Y9, Y3, U5, R8. Y7	GJ, GJ, RS, BA, VH, GS, 60, VI	67, CS, 64, C4, 91, C1, H6	#1, #5, #3, \$2, \$3, #5, #6, #6, \$7, \$62	H7_E6 102 N I
	ROMENTO.	8 8	B - 2%		Sale factor	30 m
	Topography			С	0	<i>3</i> ∼
W	Aspects (> 1976 Majer)	775	East 5	c16% stope all aspects	₩-a 12	Septim 15
н	Steps: (%)	<16	16-29 and man work to the first than	31-44	45-54	>55
	6.5	1	111 1111	10	12	15
¥	Andrew .	Flat 1	Rolling	flepediamete natural phrodust apes	(ansistent slape, beep diales or shallow publics ?	Construct slape. deep galles 10
17	Lordicases Impographic Lordinates to Milates Spanner	< S ha notated forest land 	North and/or soit aspects dominate, whither spread restricted from locati and/or Pest 2	Utcapital more sensiti. A refere tepoptaphe, rejular sepect are slope changes, meltiple sestimations of melding spread large price heldes	Rolling terrain, recrea maries decker, manuscal aspect and phope in impro- mater recognitions po- ual film agreed 10	Continues on, to assist the continues of
FUE	EL, WEATHER AND TOPO	GRAPHY		· · · · · · · · · · · · · · · · · · ·	iab Tetal Beneviour Terent Score	7 /240**
	**************************************	A		-c	٥	- JE
18	Partition of Stracture/ Community on Ships	No Structures Values problem 3 can #	Ectour of slape, selley before 5	Mid-stope beneficiand. elevated salley, < 14% stope eq	Had sleepe combances.	Upper 1/8 of Stope 15
70	Ipro el Development	No Structures Values author 2 lam Q	Pern meter indeclace, no endestions 3	Perincyte Deplete.	Internut > 1 strecture/tu	interess < 1 structure#sa intrastructure 16
9	Published Assessment Area Malabet to Talents	Na Sangrigues Values mithin 2 km ú	Nove >500 200-500 < 200 m 10 20	\$66+MIII >560 \$40-504 < (700 pt 1 12 \$5	Hac/Rolling >500 100-500 <200-in 1 12 25	>500 200-560 <
K Hed	only if Rush such toggligs 29. to Structural component endy if Wald it Science is 545 for arranging polygon	ffre Therat	13 30074 3	TE DLANG MESAN IN ICESA	CE WILDEFINE THINES SCONE	
Malfin edesik ga mene	re Schavlour Threat Class 1-41 2 1/95	ldneck zypik abbe clase) (Milistend Debent Law 6- Madende 14- High 17- Edmin >:	* [] * 5/	(check applicable rive)

 $City\ of\ Kamloops-Wildfire\ Threat\ Assessment\ Picture-Plot\ 51$



Photo 51-1 @ 45 degrees

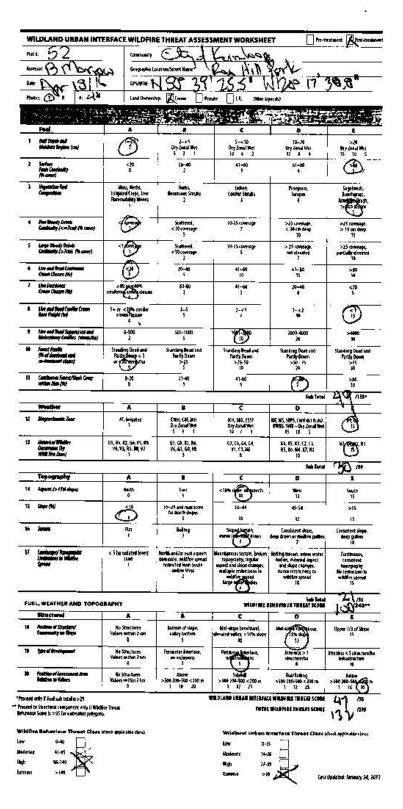






Photo 52-1 @ 360 degrees

Plo	77	ENLYCE MILDE	RE THREAT ASSE	SOMENI MOKKOH	Et me	-treatment Cost-
	at 57.	Community	Cita	of Famil	WOO!	
LSS	sessor: B Mario	N Geographic	Location/Street Name:		1.11 Val	
101	1/81 va 18		N50° 8°	1 10 8	4.11 450	1 4 1 4 1
-	4	GPS/UTM:		1 14-11	MIDE	1.12
	stos: ON 1: 4	Land Owner		rivate i.R. Other	(specify)	
¥	Fuel	A	В	Artist in the	<u> </u>	4.76
1	Duff Depth and	12	1-<5	<u> </u>	D	E
	Moisture Regime (cm)	(3)	Dry Zonal Wet	5-<10 Dry Zonal Wet	10—20 Dry Zonal Wet	>20 Dry Zonal Wet
2	Surface	<20	5 3 1	10 6 2	12 8 4	15 10 5
	Fuels Continuity (% cover)	ő	20-40	41–60 3	61–80 4	®
3	Vegetation Fuel	Moss, Herbs,	Herbs,	Lichen,		
	Composition	Irrigated Crops, Low Flammability Weeds	Deciduous Shrubs 2	Conifer Shrubs	Pinegrass, Juniper	Sagebrush, Bunchgrass,
		1	,	, ,		Anteloge Brush Scotch Broom
,	Fine Woody Debris	< vcoverage	Scattered,	10.75		(1)
	Continuity (<=7cm) (% cover)		< 10 coverage 5	10-25 coverage 7	>25 coverage, < 10 cm deep	>25 coverage, > 10 cm deep
;	Large Woody Debris	<1 povprage	Scattered,	10-25 coverage	10	15
	Continuity (>7cm) (% cover)		<10 coverage	5	> 15 coverage, not elevated	>25 coverage, partially elevate 10
,	Live and Dead Coniferous	3	20-40	41-60	7	
	Crown Closure (%)	حي	5 75	10	61–80 15	>80 10
7	Live Deciduous Crown Clasure (%)	>80 or \$40% coniferous crosm closure	61-80 2	47-60	20-40	<20
_	33/16		•	,	4	5
3	Live and Dead Conifer Crown Base Height (m)	S+ or <20% conifer crown closure	3-5 5	2-<3	1-<2	(3)
	****	0	350		1	
9	Live and Dead Suppressed and Understorey Conifers (stems/ha)	(-500) 2-)	501-1000 5	1001-2000 10	2001-4000 20	>4000 30
0	Forest Health	Standing Dead and	Standing Dead and	Standing Dead and	Standing Dead and	
	(% of dominant and co-dominant stems)	Standing Dead and Partly Down < 5 or < 10 stems/ha	Partly Down 5-25	Partly Down >25-50	Partly Down >50 - 75	Standing Dead an Partly Down
		<u> </u>	5	10	20	>75 30
	Continuous Forest/Stosh Cover within 2km (%)	0-20 0	21-40	41-60 5	(30)	>80
		-		-	Sub Total	
	Weather	Α	В	C	D	T 137
	Biogeociimatic Zone	AT, Irrigated	CWH, CDF, MH	ICH, SBS, ESSF		(PP. BOA)
		1	Dry Zonal Wet	Dry Zonal Wet	IDF, MS, SBPS, CWH ds1 & ds2, BWBS, SWB — Dry Zonal Wet 15 10 5	الوق
į.	Historical Wildline	G5, R1, R2, G6, V5, R9,	G3, G8, R3, R4,	67, C5, 64, C4,		N7, JPR K2, JH1
	Occurrence (by WHB Fire Zone)	V9, V3, R5, R8, V7 1	V6, G1, G9, V8	¥1, C1, N6	K1, K5, K3, C2, C3, N5, K6, N4, K7, N2 10	""(Lib)"
		-			Sub Total	250 /30
-	Topography	A	В	c	D	- J.C
	Aspects (>15% slape)	North	East	<16% slope all aspects	West	South
-	Clara (NC)		5	(10)	12	15
	Slope (%)		16–29 and max score for North slopes	30-44	45-54	>55
			5	10	12	15
_				Sloped-terrain	Consistent slope,	Consistent slope,
	Terrein	Flat 1	Rolling 3	minor low relies graws	deep draws or shallow guillies	
		1	3	Sloped tarrain, minor low relief draws	deep draws or shallow gullies 7	deep gullies 10
	Landscape/ Topographic Limitations to Wildline	< 5 ha isolated forest land	North and/or east aspects dominate, wildfire spread	Mountainous terrain, broken topography, regular	deep draws or shallow guilles 7 Rolling terrain, minor water	Continuous,
		< 5 ha isolated forest	North and/or east aspects dominate, wildfire spread restricted from South and/or West	Mountainous terrain, broken topography, regular aspect and slope changes, multiple restrictions to	deep draws or shallow guilles 7 Rolling terrain, minor water bodies, minimal aspect and slope changes, minor restrictions to	Continuous, consistent topography No restriction to
	Landscape/ Topographic Limitations to Wildline	< 5 ha isolated forest land	North and/or east aspects dominate, wildfire spread restricted from South	Mountainous terrain, broken topography, regular aspect and slope changes, multiple restrictions to wildfire.spread large water fadies	deep draws or shallow gullies 7 Rolling terrain, minor water bodies, minimal aspect and slope changes,	Continuous, consistent topography
	Landscape/ Topographic Umitations to Wildlire Spread	1 < 5 ha isolated forest land 1	North and/or east aspects dominate, wildfire spread restricted from South and/or West	Mountainous terrain, broken topography, regular aspect and slope changes, multiple restrictions to wildfire spread large water facies	deep draws or shallow gullies 7 Rolling terain, minor water bodies, minimal aspect and slope changes, minor restrictions to wildfire spread 10	Continuous, consistent topography No restriction to wildfire spread 15
_	Landscape/ Impagraphic Umitations to Wildline Spread L. WEATHER AND TOPOG	1 < 5 ha isolated forest land 1	North and/or east aspects dominate, wildfire spread restricted from South and/or West	Mountainous terrain, broken topography, regular aspect and slope changes, multiple restrictions to wildfire spread large water facies	deep draws or shallow guilles 7 Rolling terrain, minor water bodies, minimal aspect and slope changes, minor restrictions to	Continuous, consistent lopography No restriction to wildfire spread 15
	Landscape/ Inpagraphic Umitations to Wildline Spread WEATHER AND TOPOG Structural	1 < 5 ha isolated forest land 1	North and/or east aspects dominate, wildfire spread restricted from South and/or West	Mountainous terrain, broken topography, regular aspect and slope changes, multiple restrictions to wildfire spread large water facies	deep draws or shallow gullies 7 Rolling terain, minor water bodies, minimal aspect and slope changes, minor restrictions to wildfire spread 10	Continuous, consistent topography No restriction to wildfire spread 15
_	Landscape/ Impagraphic Umitations to Wildline Spread L. WEATHER AND TOPOG	S ha isolated forest land 1 RAPHY A No Structures	North and/or east aspects dominate, wildfire spread restricted from South and/or West 2 B Bottom of slope,	Mountainous terrain, broken topography, regular aspect and slope changes, multiple restrictions to widdle special large wasef bedies WILDFIRE B C Mid-slope benchland.	deep draws or shallow guilles Rolling terrain, minor water bodies, minimal aspect and slope thanges, minor restrictions to will dries spread Sub Total ENAVIOUR THREAT SCORE D	Continuous, consistent topography No restriction to wildfire spread 15 /55 /240**
	Londicape/ Impagraphic Londicape/ Impagraphic Londicates to Wildline Spread Londicape	1 < 5 ha isolated forest land 1 RAPHY A No Structures Values with 2 km 0	North and/or east aspects dominate, wildfire spread restricted from South and/or West 2	Mountainous terrain, broken topography, regular aspect and slope changes, multiple restrictions to wildline several large was a was a large was a will be several large wa	deep draws or shallow guilles Rolling terrain, minor water bodies, minimal aspect and slope changes, minor restrictions to wildfire spread 10 Sub Total EHAVIOUR THREAT SCORE	Continuous, Consistent Lopography No restriction to wildfire spread 15 /55 /240**
	Londicape/ Impagraphic Limitedious to Wildline Spread Ly WEATHER AND TOPOG Structural Position of Structure/	1 < 5 ha isolated forest land 1 RAPHY A No Structures Values within 2 km O No Structures	B Botton of slope, valley bott	Mountainous terrain, broken topography, regular aspect and slope changes, multiple restrictions to weldings read large water bytes. WILDFIRE 8 C Mid-slope benchland, elevated valley, -16% slope 10 Perimetal-water/are	deep draws or shallow guilled Rolling terrain, minor water bodies, minimal aspect and slope changes, minor restrictions to wildfire spread 10 Sub Total EMAYIOUR THREAT SCORE D Mid-disp assignments, Sub Total EMAYIOUR THR	Continuous, consistent lopography No restriction to wild fire spread 15/55 /240** E Upper 1/3 of Slope 15 Intermix < 1 structure/
	Landscape/ Inpagraphic Landscape/ Inpagraphic Landscape to Hiddlet Spread WEATHER AND TOPOG Structural Politika of Structura/ Community on Stope Type of Development	1 < 5 ha isolated forest land A No Structures Values within 2 km No Structures Values within 2 km No Structures Values within 2 km O Structures Values view of the structures view of the structur	North and/or east aspects dominate, widdine spread restricted from South and/or West B Bottom of slope, valley bottom 5	Mountainous terrain, broken topography, régular aspect and slope changer, multiple restrictions to widelingseared large water britiss WILDFIRE B C Mid-slope benchland, elevated valley, 16% slope 10	deep draws or shallow guilles Rolling terrain, minur waite bodies, riminari argent bodies, riminari a	Continuous, consistent topography No restriction to wildfire spread 15 /255 /240** Upper 1/3 of Slope 15
	Londicape/ Impagraphic Londicape/ Impagraphic Londicates to Wildline Spread Londicape	1 < 5 ha isolated forest land 1 1	B Botton of slope, Solution of s	Mountainous terrain, broken spopsgaby, regular spopsgaby, regular spopsgaby, regular spopsgaby, regular midiple restrictions to wildlife superations wildlife superations c WILDFIRE in C Mid-slope benchland, elevated valley, v, 16% slope 10 Perimetra descriptions Sidehill	deep draws or shallow guilled Rolling terrain, minor water Rolling terrain, minor water and slope changes, minor restrictions to wild fire spread 10 Sub Total ENAYIOUR THREAT SCORE. D Mid-dop-sestimous, > 1% slobs 113 Interniz > 1 struttue-ha 8 Flat/Rolling	Continuous, consistent (opography No estriction to wildfire spread 15 /240== Upper 1/3 of Slope
	Landscape/ Inpegraphic Landscape to Historie	1 < 5 ha isolated forest land A No Structures Values within 2 km No Structures Values within 2 km No Structures Values within 2 km O Structures Values view of the structures view of the structur	B Bottom of slope, willing bottom B B B B B B B B B B B B B B B B B B B	Mountainus terriin, juriaen ingrijaen juriaen ingrijaen juriaen juriae	deep draws or shallow guiller Rolling terrain, minor water Rolling terrain, minor water and slope changes, minor restrictions to will differ spread 10 Mid-diop section ones, 25% slope 12 Intermix > 1 Structure/ha 8 Flat/Rolling >500.00-500 < 200 m 1 2 25	Continuous, consistent lopography No restriction to wildfire spread 15 /25 /240** E Upper 1/3 of Slope Internix < 5 internity of Structure Infrastructure Infrastructure
or	Londicape/ Inpagraphic Londication to Wildline Spread Londication to Wildline Spread Londication Structure Position of Assessment Aces Reading to Videos Ny If feel sub total to 20.	1 < 5 ha isolated forest land 1 A No Structures Values within 2 km 0 No Structures Values within 2 km 0 No Structures Values within 2 km 0 0 0 1	B Bottom of slope, willing bottom B B B B B B B B B B B B B B B B B B B	Mountainus terrain, braken topoparalys, regular aspect and slope changer, and the support of the	deep draws or shallow guiller Rolling terrain, minor water Rolling terrain, minor water and slope changes, minor restrictions to will differ spread 10 Mid-diop section ones, 25% slope 12 Intermix > 1 Structure/ha 8 Flat/Rolling >500.00-500 < 200 m 1 2 25	Continuous, consistent topography No cestriction to wildfire spread 15 /240** Upper 1/3 of Slope 15 /155 /155 /156 /156 /156 /156 /156 /
or	Landscape/ Inpegraphic Landscape to Historie	1 < 5 ha isolated forest land 1 A No Structures Values within 2 km 0 No Structures Values within 2 km 0 No Structures Values within 2 km 0 0 0 1	B Bottom of slope, willing bottom B B B B B B B B B B B B B B B B B B B	Mountainus Cerrin, Irisen Ingographi, apect and slope regions, apect and slope regions, multiple restrictions to will be restricted and large water building with the slope benchland, elevated valley . 16% slope 10 Mid-slope benchland, elevated valley . 16% slope 10 Mid-slope benchland, elevated valley . 16% slope 10 Slope slope slope slope slope water multiple slope slo	deep draws or shallow guiller Rolling terrain, minor water Rolling terrain, minor water and slope changes, minor restrictions to will differ spread 10 Mid-diop section ones, 25% slope 12 Intermix > 1 Structure/ha 8 Flat/Rolling >500.00-500 < 200 m 1 2 25	Continuous, consistent topography No restriction to wildine spread 15 /240** Upper 1/3 of Slope Upper 1/3 of Slope Inflammix <1 structure/ Inflammix <1 structure/ Inflammix <1 structure/ 1 15 /20 /20 /20 /20 /20 /20 /20 /20 /20 /20
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or to	Landscape/Tapagraphic Sprind Sprind Sprind Landscape/Tapagraphic Sprind Sprind Sprind Landscape/Tapagraphic Sprind Sprind Structural Position of Structural Community on Stope Type of Development Position of Assessment Area Relative to Vales Sprind	1 < 5 ha isolated forest land A No Structures Values within 2 km 0 In the structures Values wit	B Bottom of slope, willing bottom B B B B B B B B B B B B B B B B B B B	Mountainous terrain, broken specialistic in control in the control	deep draws or shallow guiller Rolling terrain, minor water Rolling terrain, minor water and slope changes, minor restrictions to will drift spread ENAYIOUR THREAT SCORE D Mid-deep sectionous, > 100 Mid-deep sectionous, > 100 Flat/Rolling > 500 200-500 < 200 m 1 2 25 EWILDFIRE THREAT SCORE EWILDFIRE THREAT SCORE EWILDFIRE THREAT SCORE	Continuous, consistent topography to estirction to widdine spread 15 /240** E Upper 1/3 of Slope Upper 1/3 of Slope 15 Intermix < 1 structure 10 Section 200-500 200-600 10 5 /255 /255 /255 /255
of of	Landscape/ Inpegraphic Landscape to Historie	1 < 5 ha isolated forest land A No Structures Values within 2 km 0 In the structures Values wit	B Bottom of slope, willing bottom B B B B B B B B B B B B B B B B B B B	Mountainus terriin braken topopasiyi, regilir aspect and slope changer, septim aspect and slope changer, multiple restrictions to wildings special large wafer brides. C WILDFIRE B WILDFIRE B WILDFIRE S WILDFI	deep draws or shallow guilled Rolling tertain, minor water bodies, minimal aspect and slope thanges, minor restrictions to wildfire spread 10 Mid-dioppesellinuois, > 26/6 slobe Mid-dioppesellinuois, > 26/6 slobe Intermix > 1 structure/ha 8 FALT/Rolling SSD0 200-500 < 200 m 12 25 EWILDFIRE THREAT SCORE WILDFIRE THREAT SCORE WILDFIRE THREAT SCORE	Continuous, consistent topography to estirction to widdine spread 15 /240** E Upper 1/3 of Slope Upper 1/3 of Slope 15 Intermix < 1 structure 10 Section 200-500 200-600 10 5 /255 /255 /255 /255
100000000000000000000000000000000000000	Landscape/Tapagraphic Sprind Sprind Sprind Landscape/Tapagraphic Sprind Sprind Sprind Landscape/Tapagraphic Sprind Sprind Structural Position of Structural Community on Stope Type of Development Position of Assessment Area Relative to Vales Sprind	1 < 5 ha isolated forest land A No Structures Values within 2 km 0 In the structures Values wit	B Bottom of slope, willing bottom B B B B B B B B B B B B B B B B B B B	Mountainus terrain, braken inpopraphy, regular aspect and slope changer, regular aspect and slope changer, multiple restrictions to wildfire-spread large water parties. WILDFIRE B. Mid-slope benchland, elevated valley, -16% slope 10 co. 16% s	deep draws or shallow guilled Rolling terrain, minor water Rolling terrain, minor water and slope changes, minor restrictions to wild three spread 16 Sub Total EMAYIOUR TUREAT SCORE D Mid-dopp-sectionous, 2505-3605-3005 12 STUCTURE/ha 8 Flat/Rolling >500.500 c 200 m 122 25 EWILDFIRE THREAT SCORE WILDFIRE THREAT SCORE WILDFIRE THREAT SCORE WILDFIRE THREAT SCORE	Continuous, consistent topography to restriction to widdle spread widdle spread 15 /55 /55 /55 /55 /55 /55 /55 /55 /55

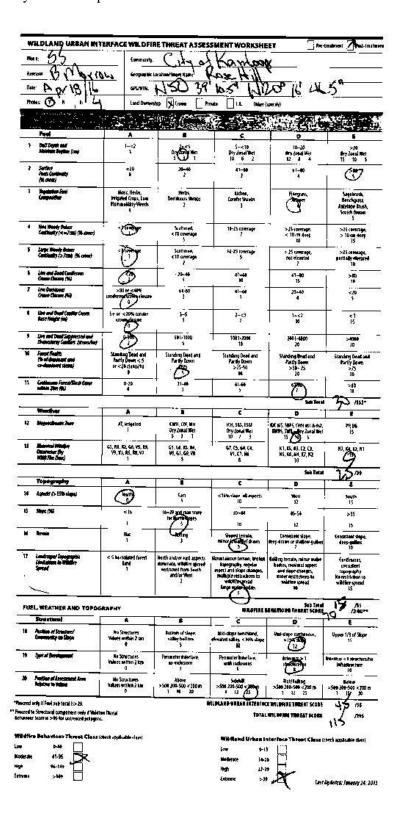


Photo 53-1 @ 225 degrees

-	5/4		CAL 1	1		
Plot	A LA	Comments.	التكم وا	Hannel	~	
He	m B W W	Secondica	xabes Sheet Hamile	Kose Hill	<u> </u>	21
ΉН	Agr 1811	SPSJUTINE TO	172 31.	14" MIZ	<u> </u>	. 5 "
heli	*(1) 1 1 LY	Band Demorph	no Cirone Mi	one ∏ 4%, Oden (s	benja,	
			The state of the s	#444 B		
- 6	Family 1	A			0	2
1	Daff Depth and Making Region (CP)	1-c) 1	200	5-<10 Dry Zeral Wet 10 4 3	35–20 Dry Zonal Wes 12 B 4	>#0 Day Zenal Wes IS NO S
3	Service Fault Continuity (N. com)	ch ·	70-44	41-64 1	61— 1 6	(3)
3	Negative Fed Compactive	Moss, Herbs, Industrial Comps, Low Hammabooky Weeds 1	Perfectors Sentes	Lishen, Corefor Strades)	7	Septembly Benchquise Antidope Brush, Scalife Gleson S
4	Fire Manay Bales: Continuity (<=7 cm) (% cores)	<1 coverage		10-25 ca escapa)	> 15 upvetage < 10 cm deep 16	> 15 compage. > 10 cm deep
4	Logo Mendy Calent, Calebrary (> Post) (16 more)	0	Suttered, eWestered 1	10-25 to ett ops 5	> 15 coverage, act devaled	> 35 coverage, purficilly electrical (4
•	Use and these (militares Comm Classes (K)	<26 }	<u> </u>	£1-40 10	61 -40 85	10
7	tire Bookhous Comm Cheare (Nt)	>80 or <40% conferous cover closure ()	61-10 2	41-60	20-40	
•	Ever and Dead Coalitie Corns Base Height Red	5+ or <20% confer crosse desire 0	. 🚓	}-c3 ?	1-<1 M	(3)
•	the and Dead Suppressed and Streeting Conflux (steam.but	0-500 2		1091-2099 10	74 240 – 4600	>4000
Ħ	Feetal Hymph (In of American and to-descripted (2000)	Handing Dead and Partie Dates < 5 or off Orbitalitie	Standing Bred and Partly Deam 5-25	Standing Dead and Pairly Deach > 35-56 10	Scanding Dead and Partly flows >50 - 75 20	Standing-Dead and Furthy Owner >75 10
Ц	Continuous Famil/Stock Cover oction also (M)	₽-30 0	21-40 5	41-60 S		>31
	Wester				Seb Tetal	Dair
U	Siegenchausk Zuse	al, Inigates	CWH, CDF, MH Dry Zanal Wet 5 3 1	KH, SBS, ESSE Bry Zanal West 10 7 3	IDS, MS, SEPS, SWH M1 & 643. 8705, 971 - Day Jonal West 15 42 5	FF 86
U	Antonia III de Ocument de 164 Fee Luci	65. R3. R2, 66, V5. R9. V9, V3, R5, R9, V7	61, 64, Rs. 84, 95, 62, 69, WI	67, 15, 64 (4. 91, (7), (6	83, 85, 63, 12, 13, 83, 86, 84, 82, 82 10	11.Q3.11
		XT			Saint Total	25 "
94	Yopegraphy	A		٤ _	_ b	Ł
M	Aspects (>19th slave)	(C)	Eart 6	c 10% stope all aspects N	West 12	5serh 15
15	Days (fil)	∢% 1	16-19 and market to held the per	90 -44	45-54 17	>\$\$ 15
M	jenie	Regar 1	Rolling 1	Sioped terrain, minor inversibil drawn 5	Congress Stops.	COMPRESS SIGNAL deep gallies 10
17	Landscape Topographic Linitation to Wilder Spaced	Person broadon add 2 > femal f	Harth antistrent expects store rate, within a spread restricted from Seeth and for Well 2	Mountainess terrain, archen teopopraphy, regular aspect and slope changes, emilipie restrictions for while large yeared large to star bapting	Bailing lettals, minor water bastes, mineral aspert pad dept this syn. minor restrictions to minime spread 10	Conditions, conditional topography Howeverlands no which the special 35
FVE	L WEATHER AND TOPOG	RAPHT			Sub Total PLININGOUR TRIBERT SCORE	240
	Structural)			t	0"	P 7240**
*	Profition of Structures Community on Shape	No Structures Values within 3 law	Soften of dope.	Med-slape derichland, electrical valley, < 18% slape 0	Mid-alogy conditions.	equel? To 171 respoil
n	Spee Outliness	Na Structures Yakes within 2 kps O	Permise insertine.	Persone les imperiores, unité la dissesse	Court Iv	irenano < F speciale la fractione 10
*	Protion of Assessment Arres Higherine to Values	No Structures Yakes within 2 km O	> 504 700 - 500 < 200 m	>501 203-500 CRO m	#81/4 elling >540 280-540 c 200 m 1 11 25	Select >500 200-501 c 700 15 - 30
-	offly if food substates > 23. o Structural component a sky if Mild o Score is > 95 for wateralized polygon	lir ihreat L		CHALAND UNDAR INTERFA	CE WILDFIAE INIBIAT SCHOOL L'INILOPEAL PROBLAT SCHOOL	43 AS
Jel Re	- Sohorlour Threat Class 0-60	lcheck applicable clary)		Wildland Urben Los 0-	Interface Threat Class (theck applicable class)



Photo 54-1 @ 180 degrees

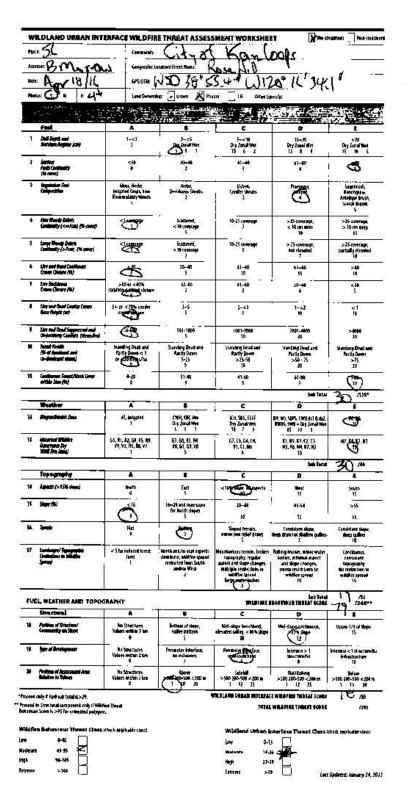




City of Kamloops – Wildfire Threat Assessment Picture – Plot 55



Photo 55-1 @ 90 degrees





City of Kamloops – Wildfire Threat Assessment Picture – Plot 56



Photo 56-1 @ 90 degrees

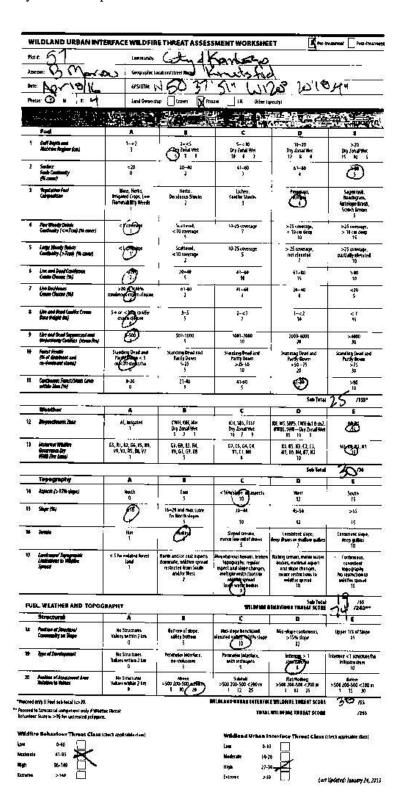
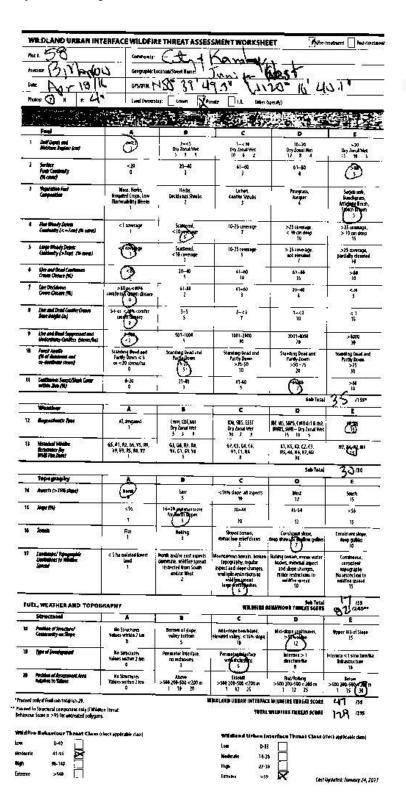




Photo 57-1 @ 360 degrees



 $City\ of\ Kamloops-Wildfire\ Threat\ Assessment\ Picture-Plot\ 58$

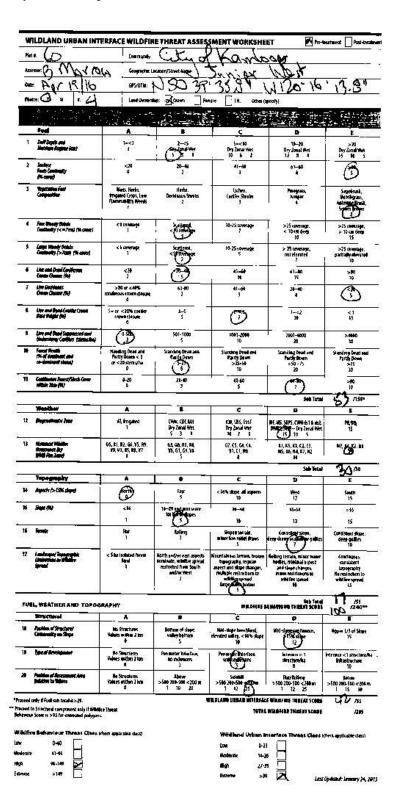


Photo 58-1 @ 35 degrees

•	ALDIAND URBAN INT	ENPACE WILDFI	RE IMMEAT ASSES	MENT WORKSHE	El E	treatment Next-treat
Ale	59	Community.	Catha	Kank	3012Opt	
ALS	m B Maco	C) Geographic	Scales Seed Rame:	Mar Level	2611	-3%
Out		GPS,WTN-	150° 2017	77 50	17/2	370
Pho	1 1 1 2 2 2 A	Land Gener	- -	Note ILL DRAFT	1.0	
	35 SERVICES ON THE SERVICES OF				ipecity)	
		ALC: NAME:				-
_	Feel	A	•	6	P	
1	Helf Dayes each Helf-hart Register (call)	O	j—c§ Ony Zonal Met	5< 10 04y 20mai Met 10 6 2	10-24 Dry Zeral Wei 22 4 4	>24 Bry Zanal Wei 15 10 3
2	Surface Freels Continguity (No correct)	<20 D	. 24-40	41-60 t	61-60 4	3
3	Hydrados Fusi Compacible	Maria, Herby Heigated Cangs, bow Florimability Weeds 3	- i Mertus Deciduous Shratos]	United Comiter Skinds	Praegrass, Juniper 4	Segutrush, Banchquasi, Anceloga Brush, Sector Basen
4	First Woody Briests Combinedly (4, m7 cm) (to coppy)	· 📆*	Scattered, < 10 constage	10-25 commage }	> 1% roverage. < 10 ms deep	> 25 coverage, > 10 cm deep
s	Large Mercky Bylonic Continuely (> Food (% cover)	*	Scallered,	10-25 coverage 5	. > 25 cerous pc., nel elevated	>25 coverage. partially elevered
5	Lies and Dand Conditions Comm Comme (%)	®	>s=40 5	41–40 16	61-80 IS	> i ia 16
7	EM Enddings Green Owner (N.)	continue of the continue of th	41-91 2	41-60	2(-4) 4	420
٠	ire and Book Goothe Crown East Height fail	1+ or companies	≽-5 5	2-<1	r-<2 16	e 1 15
1	Circ and Basel Suppressed and Materialness Commerc (microschie)	(D)	505-1000 5	1401-2440	2001-9000 34	>4460
*	Faces fields (IV of deminent and po-taminant scene)	Stateberry Devel and Parally Bonn e 5 or a 20 stern Tha	Handing Dead and Pedg Dean 5-25 5	Standing Bead and Partly Beam > 25-50 10	Septisting Dead and Partity Down >50 - 75 20	Standing Dead and Purity Scient >75 30
п	Continuos Fernit/Stech Cont mithis (dan (N)	+20 D	21-40	(3)	\$1-5 s ?	3 \$) 10
					Self-Total	1135
227	Weather	3 24	0.000	<u> </u>	D	1
12	Propositional Euro	AT, Impaired	CWH, CDF, MH Dry Eurol Wet 5 3 8	Dry Zeruj Wer 107 / 9	RVF, MS, SEPS, CIETHANT B, ds.2. BWTS, SWB — Day Zonas Wes 15 10 5	4
13	Historical Military Distribute fly 1988 (Rec June)	65, R1, 42, G4, 151, R5, 15, V3, R5, 68, V7	61, 62, 63, 64 76, 61, 69, 78 5	G7. 65, 64, 64, V1, 61, M6	KI, KS, KS, CZ, CS, MS, TS, H-Q, K7, K2 UP	N7, LCD, N1
	_88			139	Sub Total	3031
	Тиродизаву			•	_ 0	21.00
14	Agent to 15% page	(3)	Cest S	<16% shope all sepects	West 17	Seem 15
ĸ	Heps (PH)	cli	16-29 galpin sim	· ———	45-54	>45
	12.19.19.19.1 12.19.19.19.19.19	1	16-29 polymores to distributes	н	17	15
16	Smale	Rw 1	boling 3	miner by relief thes	Complete slope. Geep duries or shallow golf es	Consistent stope. deep guilles 10
לו	(antique) for equiptic (installers to inflate Special	< 5 liu italyired (mes) band II	Morth seafur each aspects scoreasite, widther special restricted from South seafur West 2		3	Continuous, constituted lopography He methidated to wildlife spread
FUE	EL, WEATHER AND TOPOG	RAPHY	1 60	THEFT	Sub Tend BEHAVIOUR THREAT SCORE	12 8
100	Pirectural		1	, c	EHACING IN THE EAT SCORE	67 1246H
18	Partition of Structures' Compressity on Stope	He Salestanes Values and his 2 ton	Scorem of ringe, valey betters	Mist-stope beneficians, elevated sulley, c 16% slope	Med-tiepmentmann.	Upper 1/3 or Steps 15
29	type of Perroleptocal	Ha Structures Values anthon 3 kgs	Penneter Interlace, sounds sees	Persiscipulatoriace.	Meanury > 1 structure (1)	éricemos < à structurados leúrastractura
*	Position of Aurenteend Arms Relation to Talleto	46 Structures Subsess within 2 km	3 2501 M0-500 <250 m	Scients >501 201-500 < 260 m	Ret/folling >500 200-500 < 200 ps	>500 201 500 - 201 rs
ured I	erily if Fact soluteral (5> 29 to Structural component cody if William ir Suzzen > 55 for unitroded polygons	ne Unesa	10.71.20	lym	TO 13 25 TE WILDFINE THREAT SCORE LWILDFINE THREAT SCORE	47 755
Adfir Austr Austr	9-169	iteck applicable dass		Wildland Urban II Lea 9-L Modeste N.	165 a. 2	check applicable dans



Photo 59-1 @ 360 degrees





City of Kamloops – Wildfire Threat Assessment Picture – Plot 60



Photo 60-1 @ 180 degrees

	VILDLAND URBAN INT		THREAT ADSES	MENT WORKSHI	E. KAW	1 Hartmann [Prost-broadmen
n	٠٠ اي ١٠٠	Community	Cotty d	Kam	Bans	
J.	O MAC	(OW Seephone)	400 on/Silvet Market	Turiar	Mark	
h	* MATRI	O SPECIAL STATES	NS0° 391	28 75	1170 16	169 -
n	wtos: 1/3	Land On such	AND PARTY TA	wite IR Other		7
	C	on still with large				
÷						1000
_	Fuel		<u> </u>		_ <u>D</u>	
3	July Bugits and Medistric Regions (cm.)	1-<2		S=<10 Dry Jonal Wei 49 6 2	NI-20 Dry Zonal Wes 12 & 4	>70 Dep Zonal-Wes 15 KQ S
2	Serioze Feels Contribuilly (% ARMs)	< 10	26 –40 2	41–60 1	61—46	0
3	Regulation field Compatition	Moss, Herbs, Hirtgefell Cope, low Remnability Words	Heales Bendunes Similes	Laction Country Shruths 5	(Ling)	Sagebrysh Burchtfreet, Untelligie Brigh Scottle Brown
4	Plan Weedy Debris Continuity (<= Figs.) (% copy)	Classifiage 1	Support.	10-25-coresage	> 25 (a metage. < På can steep 18	>25 corerage, > 10 cm area 15
5	Lage Boury Dutys Combody (>/out) (% cong)	87	Summed « N contrage	10-25 categrage 5	> 15 coverage, set downed	>15-coverage, partially elevated
6	Live and Dead Continues	<10		- 11-60	61-84	>#
7	Coper Copper (%)	2	, 	10	15	10
2	Cores Garac (N.)	CANTON COMMY DOSEITS Ú	41-93	41-40	3	c ₂ a
	dem Haight (m.)	S+ or <20% (4Mfe) grown dosure	5-5 5) }-<1	F-<2 10	3
	Der and Bearl Separation and Anterstony Geoletic (Stormalia)	®	501-100a	1491-7400 IQ	2001-4000 28	>4000
	Forest Health (H of sharkward april to-dominant cham)	Standing Dead and Partly Bown < 5 on <20 stempha	Standing Board and	Standing Geoderal Parity Down 5-25-56	Scanning Dead and Partly Bown >50 - 75	Standing Dead and Partly flows
п	SECTION AND SECTIO	0		10	20	>/5 30
-	Gentificate Fearst/Stante Gener HTSA: 20th (NL)	#-30 0	21-40		Sub Total	>** 10
	Westler		1	_ c	D De lette	54 nss
?	Superdonte has	Al impaled	CWM CDT NAM Dry Zerol Wes	ACMI, 1895, ESSE Dry Zanal Wer	BH, MS, SAPS, CORNAGE B 462 BHMS, SAME FOR 2004 Web	
13	Historical Hillative Accordance (by MINE File June)	65, N 1, R2, 66, V5, R9, V6, V3, 85, Na, N7	5 1 1 61,68,83.84 94,61,62.94	67. (5, 64. (4. 91, 11, NA	11, KS, LS, CQ, CS, MS, 46, NA, N7, N2	N7, Q2, 411
_					M	<i>-</i>
-	Topography			_ c	Sub Fetal	125 41
4	Anyward (>15% signed	/Tills	[at		Nes	Sorth
5	Sign (N)	رو	5	<16% slope all aspects	17	15
•		<16 1	for Minute Maps.	10 to	45-54 12.	236 16
	Jonah	Hat	Reling	Suppositionals estimation for disease	. Consistent dope	Torosistemi slopa,
		l № 		entre les felle dues	deep draws or shallow golles 7	deep guilles
P	Eurokeuper Papagamilite Eurokeuper fra Holisofra Spezzael	< 5 he balaneé foveti Jaard 1	Morth and/or east aspects dominate, relative aproad restricted from South and/or West	identifamos tenzin, broken lapography, regular inspect and slape changes, maltiple sestmetions on middles spenad lates which bedies	Reling tensor, measurage; todies, triannal aspect and dispectarrips. These redischess to well in spread 10	Continuous, cancident depography No resortise to middle special 15
FU	EL, WEATHER AND TOPOG	KAPHY			Seb Total	17 18
<u></u>	Structural	A -		**************************************	D DE CONTRACTOR	94 /240
	Fraktion of Stopenson/ Community on Stope	No Structures Tables william 2 km	Betton of stope, valley bottom	Modulage benchland, planted valley, < 16% slape	NIS-degragement,	Upper Ukaf Slepe 15
B	type of Development	No Stractures Valves verifica 2 ton	Permeter Interface, to redusers	Powerto interface	Haterway >)	Internet <1 structure/ba
×	Pasting of Assessment Area States to Tales	No Structures Values within 2 km	\$ \$500,240,500 < 200 m	Sidehila	Rau/Rolling >500 200-500 < 200-in	10 . Bafow >500 250-500 < 264-m
		0	1 10 70	1 4 2)	1 12 25	1 15 36
eed	only Miked auth togging > 29, to Structuralization powers only it wasts at Score is > 95 for a nitrouted pulygon;	ire Thange S	9.		E WILDFINE THREAT SCORE	Det 199
	re Bahawiatar Throat Class (there applicable classic		Wildlamid Linbon R	nierfece Threes Class	kheik ap şikable dansı
	0-40			tom D-1	' 🗆	
	. Mari					
Hac	95-149 T			Moderate 16-2 Rogic 27-3		



Photo 61-1 @ 360 degrees

n	TLDLAND URBAN INT	ERFACE WILDFU	LE THREAT ASSES	SMENT WORKSHI	ET	trealment Fost-hou
Ho	·· 62	Community	C+. 1	Kamboo	WS 200	
fas	$\alpha \sim$	NI.a Guerrani	~~~	- surence		
G ₁	471 1011	100	commitmet time	unite	chest	t attack
Date		P BRYNIN:	<u> 1120 h</u>	NIN	71 M 12	41.8
n	W C F C C	Lend Overen			(Specially)	
		· 经营产。201				
=	Peel		300 J	C	经 的是"在	
		1-02	_3-45		16-70	E
1	Pull Darth and Matters Regime (ca)		City Zimal Wer	Dry Zerul Wet 10 4 2	Ory Inhal thes 17 B 4	>70 Day Zorsal Mes 15 M S
	Finite Continuity (N const)	4 40	20—40 2	41-60 3	61-14	3
1	Reprinter Fad Compatition	Mess, Herbs, triigated Eness, Low Racternability Microls	Decideous Struits	Lichem, Coether Shruits 3	Pringers. Ringer	Sageterade, Buncherate, Intellige finish, Searn-knorn
•	Fire Weedy Delete Continuity (4-27cm) (Ni cares)	0	Scattered, <10 coverage	10-25 coverage 7	>25 conceage. < 65 oin deep 10	> 25 converge > 10 cm deep 15
5	Company (3-Ford) (% cores)	4	Scattered, < 11 consuge	10-25 certrage 5	> 25 courtage, not alexand	.>75 overage, partially decored by
ř	(by one Dead Continues Crime Courty (%)	<2b	(3)	61-60 10	61 -le 15	># 10
,	Det Besidenn Green Genner (%)	>80 to <40% casiferes upon dosers D	\$1- \$ 3	41-40	10—10	(3)
	i ha mei Dood Contife Germa Besse Herbyte des	S+ or <20% cynlfer mown dogwn	3-5 5	1-43	1-<2 10	(3)
•	Live and Beard Suppressed and University Contines (Marris Ma)	®	501-100e 5	1101-2460 bi	7001-4004 30	>400 3F
10	Freid Health (Frei deminant and co-destinant seem)	Standing Bead and Party town < 5 or < APRE position	Standing Dead and Partly Deam 5-25 5	Standing Dead and Parify Deam >25-50 10	Standing Dead and Parily Down >50 - 75 20	Szending Dead and Partily Blown >75 30
щ	Conditioners Faces (/Spinis Cyrey 1975 to 2000 (M)	#-20 0	21- 40		1 17 18 1	>50 10
_			E 101		Sen Tutal	Z-19 ASS
_	Westbar	•		- c	P	e t
12	Esperiment des	A1, implord	C West, CDF, AMIn Dry Zernal West S 3 E	KW. SBs. Essi Pry Zenal Wet 10 / 3	BH H SPS (WHO'S BOZ BHOW SHE - Dry Zone Hec	P#, MG 15
B	Minister Whitele Octoberson (by Will Flor Just)	66, 81, 82, 66, 95, 89, 99, 93, 85, 88, 87	GJ, GB, A3. BC, 96, 61, 60, VB	67.65.64.66, 91,01,86	#1, KS, 10, C2, C1, RS, 46, H4, K7, H2	R7,84;K2,811
	- W		500 000 500 000	at a second	Sam Tarpi	30 at
- 177 - 177	Ann-Babyla	*		L c	0	, , , , , , , , , , , , , , , , , , ,
H	Apeco (>25% sleps)	F	Fersi 5	<16% daps 40 25940. 10	84st 1)	Seath 15
15	Supe (N)	-16	F4-29 and annual scale for With player	50-44	45-54	>96
			_ (1)	to to	12	15
*	James .	Flat F	Reding 3	Steped terroin.	Consistent deps, deep draws or stalken gullers.	(ornistral skept, free guilles
t7	Contrary Spengality Spend	< 5 ha traditicé forest. Janai 1	Morth and/or east aspects dominate, volctime spread restricted from Sauth and/or Mest	Manifeltons seemin, lethers lapour sell, regular aspect and dope changes, meltiple sells (flors as will fire speed large years blades	Rollery tessam, white water bodes, final aspect and stope changer, mater restrictions to within spread 10	Compleyeous, consistent topography No restrict year to weight a spread
rue	L WEATHER AND TOPOS	RAPHY		98	SOR TOTAL	155
	Streetard			r c	-	*4
	Position of Structure/ Community on Stage	Mo Structures Natural wilding 2 km D	Bottops of slope, valley bottom 5	All & slope be utilized, elevated valley, < 15% slope 10	Mid-dags continuous	ther U3 at Slape IS
9	Spe of Destinated	Ro Smacharas Values andres 7 Jan	Perspeter Interface, to indiscuss	femoto-leterace.	Marries > 1 Strategies	Minnes <1 smcse-9-
•	Antique of Agents at Ann Beliefer to Talons	Na Structures Values arthin 2 kgs	Above >\$40.200-500 < 700 M 1 10 20	>540-540-560 (50) m 1 3) (35)		10 Petom >500 200-500 <200 m 15 34
eed to	roly of Suel subtraction 29 of SheClard screpment only it hilds of Score is 245 for ensembled polygons of Berhand over Through Classes	rt lbrust		Maratana unigga proprior	E WHATERE THINEAT SCORE WHATERE THERETY SCORE	136 24
/14	0-40 [] 41-55 [2] 9-160	IN STREET		Wildland Urben L Lea D-1 Nedesite Li-1		hed applicable day

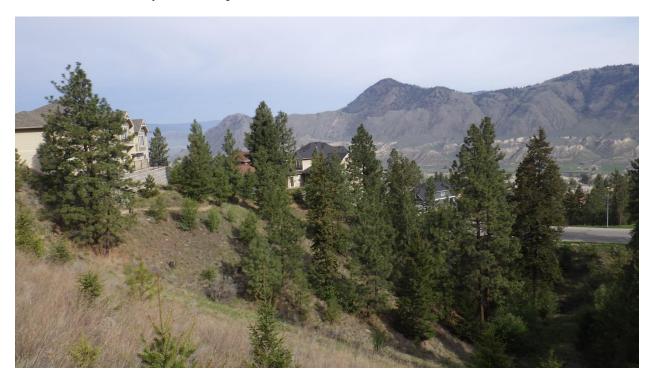
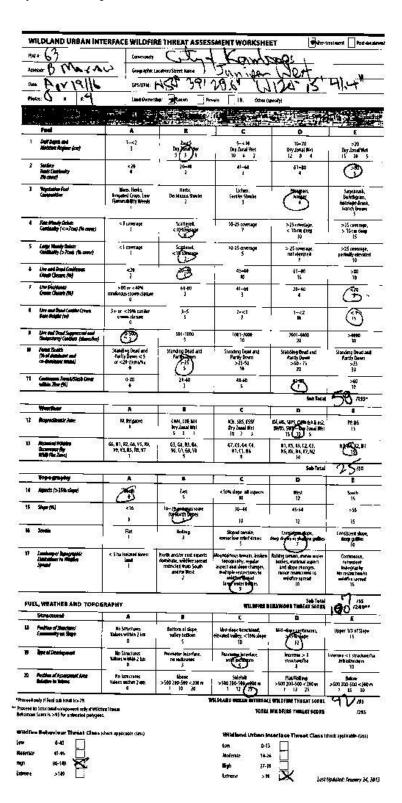


Photo 62-1 @ 330 degrees





 $City\ of\ Kamloops-Wildfire\ Threat\ Assessment\ Picture-Plot\ 63$

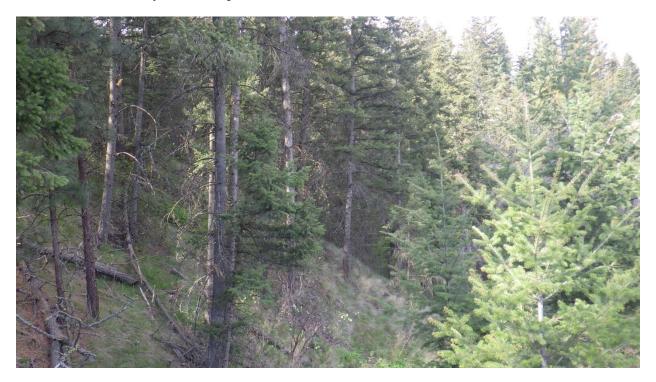


Photo 63-1 @ 200 degrees

Pla	er 6H	Community	Colly at	Kar la	- A	
Ass	185501: D MON	DW Geographic	Location/Street Name:	Lam	Post	
lat	1	GPS/UTM:	157 2	Jan 1/2	No Miles	2001
h	otos: (T) H	3	N. 2 5	1 30 17	1110 141	SA V
		Land Owner			(specify)	
	de consequente de la consequencia della consequencia de la consequencia della della consequencia de la conse	100	LOTEL S			
_	Fuel		В	C	D	E
1	Dulf Depth and Moisture Regime (cm)	1-<2	2-<5 Dry Zornel Wet 5 (3) 1	5-<10 Dry Zonal Wet 10 6 2	10–20 Dry Zonal Wet 12 8 4	>20 Dry Zonal We 15 10
2	Surface Fuels Continuity (% cover)	<20 0	20-40	41–60 3	61-80 4	(3)
3	Vegetation Fuel Composition	Moss, Herbs, Irrigated Crops, Low Plammability Weeds	Herbs, Deciduous Shrubs 2	Lichen, Conifer Shrubs	Pinednass, Quinpf	Sagebrush, Bunchgrass, Antelope Brust Scotch Broom
1	Fine Woody Debris Continuity (<=7cm) (% cover)	<1 coverage	Scattered, 10 coverage	10-25 coverage 7	>25 coverage, < 10 cm deep 10	>25 coverage, > 10 cm deep 15
5	Large Woody Debris Continuity (>7cm) (% cover)	Coverage	Scattered, <10 coverage 2	10-25 coverage 5	> 25 coverage, not elevated	>25 coverage, partially elevate 10
	Live and Dead Conifernes Crown Closure (%)	<20	3	41–60 70	61–80 15	>80 10
	Live Deciduous Cown Closure (%)	>80 or <40% coniferous crown closuce 0	61-80 2	41-60 3	20-40	3
	Live and Dead Conifer Crown Base Height (m)	5+ or <20% conifer crown closure 0	3-5 5	0	1-<2	₹1 15
	Live and Dead Suppressed and Understorey Canifers (stems/ha) Forest Health	Standing Days and	501-1000 5	1001-2000 10	2001-4000 20	>4000 30
	(% of dominant and co-dominant stems)	Standing Dead and Partly Down < 5 or < 20 stems/ha 0	Standing Dead and Party Sown 5-25	Standing Dead and Partly Down >25-50 10	Standing Dead and Partly Down >50 - 75 20	Standing Dead an Partly Down > 75 30
_	Continuous Forest/Slash Cover within Zian (%)	0-20 0	21-40 3	41-60 5	(3)	>80
-	Weather	A	В		Sub Tota	
	Biogeoclimatic Zone	AT, Imigated	CWH, CDF, MH Dry Zonal Wet 5 3 1	ICH, S&S, ESSF Dry Zonal Wet	IDF, MS, SBPS, CWH ds1 & ds2, BWBS, SWB Dry Zonal Wet 15 10 5	PP, BG 15
	Historical Wildfire Occurrence (by WHB Fire Zane)	GS, R1, R2, G6, V5, R9, V9, V3, R5, R8, V7	G3, G8, R3, R4, V6, G1, G9, V8	G7, C5, G4, C4, V1, C1, N6	K1, K5, K3, C2, C3, N5, K6, N4, K7, N2	N7, (4502, N1
					Sub Total	1 5 30
_	Topography	A	В	С	D	E
	Aspects (>15% slape)		East 5	<16% slope all aspects 10	West 12	South 15
_	Slope (%)	<16 1	16—29 and max score for North Jopes 5	30 –44 10	45-54 12	>55 15
	Terrala	flat 1	Rolling 3	Stoped terrain, minor low relief draws 5	Consistent slope, deep draws or sharow gulkes 7	Consistent slope, deep gulkles 10
100	Landscape/Topographic Umitations to Wilafire Spread	< 5 ha isolated forest land 1	North and/or east aspects dominate, widdire spread restricted from South and/or West 2	Mountainous terrain, broken topography, regular aspect and slope changes, multiple restrictions to wildfile-gread large yeter bodies	Rolling terrain, minor water bodies, minimal aspect and slope changes, minor restrictions to wildfire spread 10	Continuous, consistent topography No restriction to wildfire spread 15
	, WEATHER AND TOPOGE	КАРНУ		WILDFIRE	Sub Total EHAVIOUR THREAT SCORE	QQ /55 /240**
,	Position of Structure/ Community on Slope	No Structures Values within 2 km	Bottom of slope, valley bottom	Mid-slope benchland, elevated valley, <16% slope	Mid-slope continuous,	Upper 1/3 of Slope 15
1	Type of Development	0 No Structures Values within 2 km	Perimeter Interface, no inclusions	Perimeter Interface, with inchisions	(12)	intermix < 1 structure/
ě	Position of Assessment Area telepine to Values	No Structures Values within 2 km	Above >500 200-500 a 000 a	Sidehill >500 200-500 < 200 m	8 Flat/Rolling >500 200-500 < 200 m	10 Below >500 200-500 < 200 n
	ly if Fuel sub total is>29.		1 10 (20)	1 12 25 Vildland urban interfac	1 12 25	30 /55
3	Structural component only if Wildfire core is >95 for untreated polygons.			TOTAL	WILDFIRE THREAT SCORE	/295
•	Behaviour Threat Class (ch 0-40	eck applicable class)		Wildland Urban In Low 0-13	iterface Threat Class (c	heck applicable class)

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 $City\ of\ Kamloops-Wildfire\ Threat\ Assessment\ Picture-Plot\ 64$



Photo 64-1 @ 45 degrees

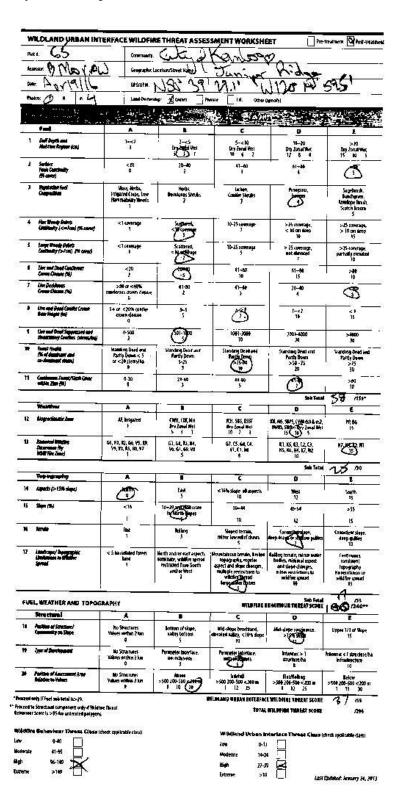






Photo 65-1 @ 200 degrees

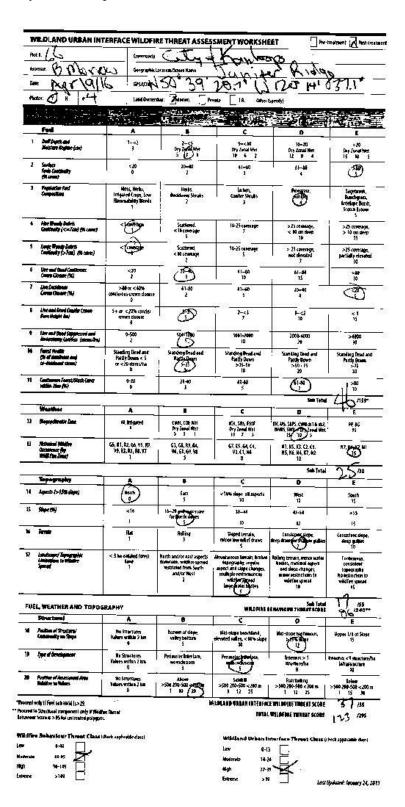
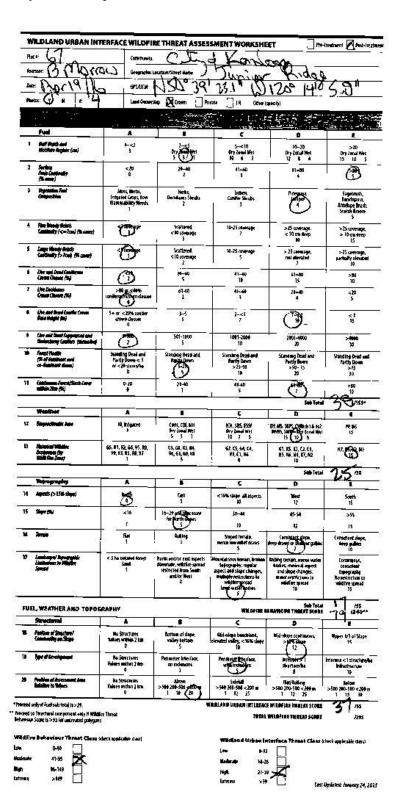






Photo 66-1 @ 200 degrees

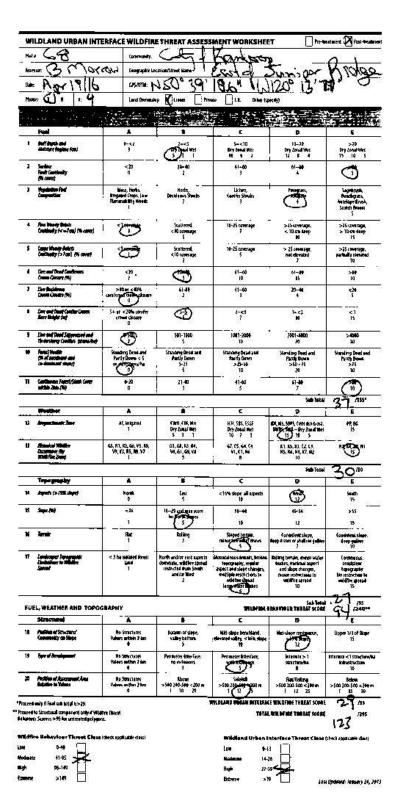




City of Kamloops – Wildfire Threat Assessment Picture – Plot 67



Photo 67-1 @ 210 degrees





 $City\ of\ Kamloops-Wildfire\ Threat\ Assessment\ Picture-Plot\ 68$



Photo 68-1 @ 315 degrees

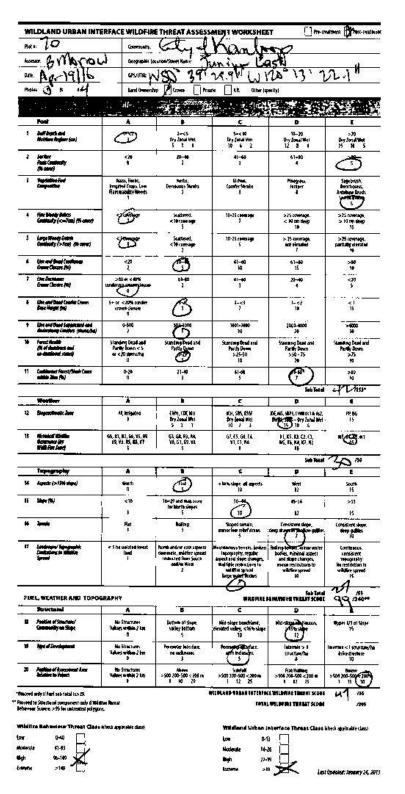
an.	0-60 Class	a (objecja applikra tit e efazo)		Lote D	Interface Threat Class	(check applicable dass)
***	only if fixed out bond is > 29. to Structural compensationly of Wild or Searces > 95 for universal pulper		2.5		ICE WILDFIRM THREAT SCORE IL WIN OF IME TIMEET SCORE	77 ns
	Politica of Assessment Area Politica to Paleer	No Structures Values within 2 km O	Above >546 204-509 < 200 m 10 20	>589 200-500 <200 m 1 (12) 25		>500 280-580 <201 1 15 38
•	Type of Development	Ha Structures Values within 2 km 0	Perimetet leterlace. counciesurs 3	Principaliticities.	interna > 1 strumentu g	Hamma < Stackings Hillsometime >2
1	Profition of Structures' Columnsky on Stage	Na Structures Values relitin 2 km 0	Ballons al stope, willey burley 5	Mic-slope be neblyack elevated valley, < 16% played 10	Mis-days candinases	Upper VS of Slope LS
	Responsión de la constanta de			•	D	- 1
Už	L, WEATHER AND TOPO	GRAPHY	} 92		Sab Total BENDANOVO THREAT SCORE	36 m
100	Continue Programic Embaras to Hildre Spread	< 7 he religion from leed	Month and/or east aspects demonste, whiter spread restroited from South and/or West	Moratainous speagh, Arshae Isopousphy, regular espectanti slept shinger. matigle sestectures to military speak large matigle sodies	Bojing bersen, granes series boden, manmal espect and slope changes, manus restrictions to within spread to	Comments, served entropy, served entropy, served by life motivation to united in sylvening 15
•	Rende .	Rut 1	Rolling	Sloped terrols, mater knowledgel draws	County on Walter Justices	Consistent slope, deep galles
5	Ser(ii)	< 16 1	16-19 pad man garn ton Harth Slopes 5	53 -44 18	(12)	>55 15
	Aquats (> 19% sleps)	Herth 4	fæi Ç	<16% dage all aspects 10	€	South 15
_	Topography		1	C	0	70
600	Handed Middle Browner Jay HIME For Joed	19, V3. IS. INL. V7	TK, G1, 59, 14	10,0,86 I	NS, EG, Ra, E7, N2 1D Sub Total	30 ²⁰
	restor occupancy	65, £1, 82, 66, 95, 89.	5 3 1 62 GB, R3, R4	Bry 2000 Well 10 7 3 67,55,54.54,	DE, MC, 1975, CWM to 14 (LZ, PMP SEE – thry Jenal Web, 15 10 5 II, KS, KZ, CZ, CS,	HUY (BE) AT
30	Weather Reportests for	A JJ. Impaled	, (WH,CDLWH	KH, 585, (59	DE, MG_3845, CWM do 14 MZ,	PP, MG
_				10	Facts Texts	L Tass
	Continuous Fauca/Mask Cover matter 20m (Ne)	D +24 0	21-40	10 41-00 5	61-40	1 (10)
	Facet Realth (% of deminant and or-dominant storm)	Sametro Dead and Partly Dead < 5 or < 20 ptempha	Standing Dead and Farth Open	Standing Dead and Bartly Down >25-54	Standing Seed and Partly Deem >50-75	Standing Board and Partly Doors >75
_	Line and Dend Suppressed and Qualestimy Coulies (scenester)	0-546 2	7	1004-2000 14	200-1-4000 20	> 4000
	Live and Durch Caraller Group Sear Height (m)	SH od <20% centlet ocom dosere	9-5 5)-<1 !	1-<1 10	(B)
0100	the Decisions Come Chaire (No)	contrast down quant	61-83	41-44	24-40 4	(3)
-	Live and Stand Confirmers Great Chapty, (Nr)	eN	<u> </u>	41-64 b)	91-80 15	>#0 10
į	Large Mondy Detects Contrastly (> Actif (% contr)	<1 creatings	Sustained offerences	10-75 centrage 5	> 25 coverage, act elevated	>25-coverage, partially elevated No.
_	Flore Mysely Brance Continuity (con-Yum) (% county)	<1semage	1	16-25 ce arrage 7	> 35 coverage, < 10 and Beep	>25 coverage, > 10 cm (rep
	Regulation fact Compression	Mosa, Herbs, triguted Crops, Low Remove lifty Weeks	Heris Decidoses Shaeles 2	Lichen. Coolie Strutts 3	3	Sagetunek, Baselegrasi, Hertelegrafinsk, Saseth Erosen
	Serious Feel: Controlly (N. copy)	0 0	2 1 40 2	11—40 	61-30 4	0
11-0	Dalf Depth and Unistan Seglar (cm)	(1)	Jacks Dry Jonal Wan 5 1 1	S=<10 Dry Zonal Wes 10 0 Z	10-30 Gry Zonal Wei 12 4 A	>jû Dry (odal Wei 15 10 4
	Feel	A	1	C	D	Ł.
		学 用专业员	1-3			
wio.		Land Desperate	Prince		F7. 14	U
i k	t) v metar	GPS/WTM: 1	O DAI 1			
43	(C)	Connuelly.	Carried A	of company	-, 0 -	1960

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 $City\ of\ Kamloops-Wildfire\ Threat\ Assessment\ Picture-Plot\ 69$



Photo 69-1 @ 90 degrees



 $City\ of\ Kamloops-Wildfire\ Threat\ Assessment\ Picture-Plot\ 70$



Photo 70-1 @ 180 degrees

#J	71	Community	CALL	Kanlos	as.	
5000	1/00	A Transmission		12.2		.00
	17 (1,000		annashee Name:	The second	17.19 (1)	2841
rje:	Day 1910	GFS/M/IN:	120.24	43 0 W	110 11	יאנאי
betre	07 . K	Land Owner of	Prus	ie 🗌 ifi. Uilherjupes	ıhı	55
		n, •89 =				- W-M
) AF 5334 SA	E STATE OF THE STA
,	Feel	*	7=<5	5-<10	10-20	>#
	Bull Rejob and Maintage Regime (cm)	3	Cry tomal Well 5 3 1	Bry Zonal Wet N 6 2	Dry Zenal Wei 12 F a	Bry Zonal Wei 15 10 S
2	Seritor Fonts Continuity (N. collect)	° 20	1 10—0	\$1-60 3	61—44	
3	Negative Feel Composition	Noss, Herio, Inspated Grops, Law Figure shifty Weeds.	Herbs. Decisional Strabs	Lithen, Conity Susks 3		Sagalarızılı Berichgeris Birelope Brushi Scetch Georni S
٠	Rice Wardy Dates Contrastly (< −7,00) (% cones)	2	Scattered. <10 coverage 5	10-25 (press)pr 7	>25 camazga, < 10 cm dees 10	>25 carecage. > 43 cm dada 15
5	Large Woody Debts Continuity (>70s) (% cross)	· 💮	Scattero€, ≪10 rowerage 2	10-15-overage 5	> 25 coverage. not elevated	>25 or serage, partially elevated 10
6	Live and Dood Conflorers Crimit Charles Pill	<20 }	3	17-40 10	67. 280 85	5 H 10
1	(are Positiones Crease Chapter (NL)	>RD er C40% conferencemen closure g	91.40	61-60 j	20-40	3
•	(Pro and Street Equition (rema- Bases Helgist (m)	5 - or <70% confer crown docum	 	}-<3 Ţ	1- < 2 10	(1)
,	(Fee and Devel Suppressed and Understany Guiders (Sapanylla)	(7)	901-100 0	1001-2000 ld	2001-4004 20	30 120ding Dead 200
	Forci Mediti (% alfanisare and co-duminare shou)	Standing Dead and Partly Dead < 5 or < 26 th mp/hs. D	Strang Bood and Parity Down 5×25	Streeting Dead and Participant 215-50 -16	Standing Bred 240 Partly Descri >50-75 70	Pactif Dean >75 30
п	Gustlegum Fenest/Sleck Gover miller iden (Ni)	4-20 D	21.40 3	41-60 S	(7)	> 31
					Scale Testal	50 mm
	Weather			C .	D	E
12	Stoppeinsele bar	4, knigated	CWH, COL NH Dry Jonal Wel 5 3 1	MH, SBS, ESSF Dry Zemai Wei 10 7 3	DF. N/S. 2015. CYM do 14 do 7. DAMES SIMO - Dry Zoead Wel 15 10 5	PR, 86
13	Hisporium Philler General dig Will fire Zapu	66, 81, 82, 66, 15, 89, 19, 93, RS, 88, 17	69, 60, 49, PA, PA, 61, 69, 118	G7. C5. G4. C4. Y1, C1, M6	E1, 85, 89, C2, C3, M5, F6, MM, R7, M2 10	"G"
					Sols Fortal	300.
	John Bolepi,	A	•	<u> </u>	Þ	
H	Apaza (>19% App)	Horse D	(3)	<16% dope all aspects 16	Wex 12	Searth 15
ĸ	Sign (N)	cil	16-29 and Man some	79-40	ACAL	>35
	APT-1-4	18	to Borto skapes	10	G	15
H	Jerosh	Run	Rolling 3	1 i	Combined signe, deep drawn a statem gallico	
17	(andrope/Spearable Database to Middle	<5 ha notaled farest	Blorth and/or each aspects	Mesoniamone turrain horizon .	Rating terrals, prisor water	: Continuous.
	(Instrument or White: Spread	land 1	dominate militar (amad restunted from South and/or West	Inposphelia, ingellar aspect and share changes, quality to excitations to without Shapad large varies billies	bodies, minimal aspect and sleep changes, minor restrictions de welding spread 10	consistent inpography its resination to wild the special its
FUE	L, WEATHER AND TOPO	GRAPHY			SAN TOLK ENGINE THE BLAT FOREI	7 7240-
•••	Streether	A	5 B 2002	c	D	, E
•	Public of Structure/ Community on Steps	No Structures Yallum within 2 km D	Bottom of Hope, valley beltom	414-dope bootstand, Elevated valles, < 65% dope 10	Mid-dape continuous,	Upper 1/3 of Slope 15
19	Type of Disabligates 18	No Structures Values within 2 km	Persister laterface, ne reducens	Program Specifica with indications	jagerpeu > I timetule/hit	diames < 1 structure/ principle and prin
A	Position of Assessment Acres Religious to Viglans	No Structures Yahres within 2 has 0	>501 208-500 < 200 m	>504.201-500 < 250 m	#31/45/bing >580 260-580 < 200 m 1 12 25	Sign Me-sign chilled
teed	osty V Rudi sub total is>29 to Strectural companyati prily if Wil ir Score is>95 for anti-called ballyte	kitse lineal s ^p o-		MAN DEVIND ANTENN MARKET	_	41 10
lah	ro Pekavlour Throot Class	n (checa app d cattle class)		Wildland Urban I Lou D-1	nterface Threat Class	Other is appricable rised



Photo 71-1 @ 360 degrees

	ILDLAND URBAN IN		78 1	SOMENI WORKS	IEET JA	re-treatment Post-b
Plo	11: 1/2	Communit	" City	Kamba	ν	/*
Ass	SOUTH CHES	Q() Geographi	c Location/Street Name	There	7	
Dat	* Pany 1911	GPS/UTM:	NS0 391	454	No 15 43	5510
Pho	otos: N P: U	Land Own	ership: A Crown		r (specify)	
		The state of			7.7	ENGLY MORE STREET
	Fuel			(全角型)等。	7.50	4
1	Duff Depth and	<u>^</u>		с	D	E
	Maisture Regime (cm)		2-<5 Dry Zonal Wet 5 3 1	5-<10 Dry Zonal Wet 10 6 2	10–20 Dry Zonał Wet 12 8 4	>28 Ory Zonał Wet 15 10 S
2	Surface Fixels Continuity (% cover)	<20 0	20—40 2	41-60 3	61-80 4	(30)
3	Vegetation Fuel Composition	Moss, Herbs, Irrigated Crops, Low Flammability Weeds 1	Herbs, Deciduous Shrubs 2	Lichen, Conifer Shrubs 3	Pinegrass,	Sagebrush, Bunchgrass, Antelope Brush, Scotch Broom
•	Fine Woody Debris Continuity (<=7cm) (% cover)	(Colprain)	Scattered, < 10 coverage 5	10-25 coverage 7	>25 coverage, < 10 cm deep 10	>25 coverage, > 10 cm deep 15
5	Large Woody Debris Continuity (>7cm) (% cover)	Coverage	Scattered, <10 coverage 2	10-25 coverage 5	> 25 coverage, not elevated	>25 coverage, partially elevated
5	Live and Dead Coniferous Crown Closure (%)	(20)	20-40 5	4160 10	61–80 15	>80
	Crown Closure (%)	>80 ac 40% coniferous crown closure	61-90	41–60 3	20-40	<20 5
	Live and Dead Conifer Crawn Base Height (m)	5+ or <20% conifer crown-aboure	3-5	2-<3	1-<2 70	<1 15
	Live and Dead Suppressed and Understatey Consiers (stems/ha) Forest Health		501-1000	1001-2000 10	2001-4000 20	>4000
	(% of dominant and co-dominant stems)	Standing Dead and Partly Dayon < 5 or <20 stems/ha 0	Standing Dead and Partly Down 5-25 5	Standing Dead and Partly Down >25-50 10	Standing Dead and Partly Down >50 - 75 20	Standing Dead and Partly Down >75 30
	Continuous Forest/Slash Cover within 2km (%)	0-20	21-40 3	(1-60) 5	61-80 7	>80
8	Weather	Α			Sub Tota	<u> </u>
	Biogeoclimatic Zone	AT, Frrigated	CWH, CDF, MH Dry Zonal Wet	ICH, SBS, ESSF Dry Zonał Wet	IDF, MS SRPS, CWH ds1 & ds2 BWB8, SWB — Dry Zonal Wel	PP, BG
	Historical Wildfire Occurrence (by WMB Fire Zone)	GS, R1, R2, G6, V5, R9, V9, V3, R5, R8, V7	5 3 1 G3, G8, R3, R4, V6, G1, G9, V8	67. C5, G4, C4, V1, C1, N6	K1, K5, K3, C2, C3, N5, K6, N4, K7, N2 10	N7, K4-K2, N1
					Sub Total	27/30
	Topography	A	8		D Jan lota) (J) (J) (M)
_	Aspects (>15% slape)	(Sorte)	East 5	<16% slope all aspects	West 12	South 15
3	Slape (%)	<16	16-29 and max core for forth slop's	30-44	45-54	>55
	Terreto	1	<u> </u>	10	12	15
		Hat 1	Rolling 3	Stoped Servain, minor law relect draws 5	Consistent slope, deep draws or shallow gullies 7	Consistent slope, deep gullies 10
- 6	andscape/Topographic imitations to Wildfire Spread	< 5 ha isolated forest land 1	North and/or east aspects dominate, wildfire spread restricted from South and/or West 2	Mountainous terrain, broken topography, regular aspect and slope changes, multiple restrictions to wildfire spread large water bacies	Rolling terrain, minor water bodies, minimal aspect and slope changes, minor restrictions to wildfire spread	Continuous, consistent topography No restriction to wildfire spread
L,	WEATHER AND TOPOGE	APHY			Sub Total	(7) /55
_	Structural		В	C WILDFIRE	EHAVIOUR THREAT SCORE	68/240**
0	ommunity on Slope	No Structures Values within 2 km	Bottom of slope, valley bottom	Mid-slope benchland, elevated valley, < 16% slope	Mid-slope continuous,	Upper 1/3 of Slope 15
ħ	rpe of Development	No Structures Values within 2 km	Perimeter Interface, no inclusions	Perimeter Interface, with inclusions	Intermix > 1 structure/ha	Intermix < 1 structure/ha
R	polition of Assessment Area elative to Values	No Structures Values within 2 km	Above >500 200-500 <200 m 1 10 20	5idehill >500 200-500 <200 m	Flat/Rolling >500 200-500 < 200 m	>500 200-500 200 m 1 15 30
Sc	y if Fuel sub total is>29. tructural component only if Wildfise one is >95 for untreated polygons.	Threat		VILDLAND URBAN INTERFAC	1 12 25 EWILDFIRE THREAT SCORE WILDFIRE THREAT SCORE	1 15 (0) /55 /295
. 6	3-haviour Threat Class (ch 0-40 41-95	eck applicable class)		Wildland Urban In Low 0-13 Moderate 14-20	terface Threat Class (c	heck applicable class)



Photo 72-1 @ 225 degrees

	73	1.	1-6	/		uman Pacamal
Hot P	100 Best 1900	(elemently	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Kengard	Ši –	
2000	* BIL Pilgr			grand	100 mm 1	~ 1
dr:	Ax 19/16	EPS/UTAL	1212 38	J'BBI'	71592 M	$\Delta^{\prime} V_{\perp}$
loto	(C) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Lead Owners		He ∏R O#Her©a	eo r ji	
		* = i4		2.22		
×	Pred	A	C STATE OF THE PARTY IS	C	0	t to
ı	Out Septe and Melotype Region (cm)	-e} }	IN SHI	5—<10 Bry Assal Rei 10 6 2	10—20 Dry Zocial Wes 14 & 4	>26 Dry Zanal Wet 15_10_5
2	Serior Final Controlly (% comp)	< <u>tu</u> 0	50-10	41-40)	61-34	(P)
3	Vegetation Facil Contigues Clear	Next, Hath; Impaled Emps, Lee Harmability Weeds	Herts, Decidiosus Shreka 2	Lichen, Caetfei Shaale 3	Processor, Junger	Supernosia, Pentaguasa, Australia Janah, Condi Belgeri
4	Fine Whody School Combanity (combanity (to count)	· 🔭	Scattlered, < No correspo 5	10-25 (aperage)	>25 coverage. < 10 un acep 10	>25 coverage. > 10 cm feep
1	Large Whody-Debrit Continuity (>Fixe) (to cover)	0	Scattered, < H correspondent	10-25 c omplige 5	> 25 corerage. not element	>35-ownage_ partially electron 50
٠	Liter and Stool Confidence Organ Charge (N)	(%)	70—10 5	¢1-64 10	61— 8 0 15	>E0 16
ī	the Decidents Coun Chame (N)	>80 pr. s.40%. condenses contracte some	69-60		×-40	420 \$
	Line and Band Gratter (recent Base shelpler for)	54 or < 20% coaller trout the coal	3-5 5	1-<) †	1-<2 10	< 1 15
1	Lifer and Food Suppressed and Understany Condens States/Su)	1-504	(F)	1501-2500 M	2001-409# 20	> 4000 30
0	Force Health (In of Assessment and or-Assessment Health)	Standing Dead and Participance, 5 or Afficiance	Sparting Dead and Party Bosen 5-23	Stanging Deed and Parity Bown >25-50	Standing Dead ann Pathy Dean >58-75 20	handing Beak and Partly Deem >75 30
1	Continues Farcat/Stech Comp within Haw (K)	a.jo	21-40	41-60	(1.30	> 83 10
				,	Sea Total	31 755*
	Wester			ı c	0	P(····
2	Singree/Standis Zince	AT. Insigures	CWH. OFF. All n Ony Zonali Wes	KH. S45. ESSE Dry Zonal Wes 10 / 3	IDS MS SSPS (WH ext 6 cs 2. TINES: SWF - Day Zonal West 15 MS 5	@
IJ	Minimizat Printer Chapman fly (Chill Fin Jane)	GS, RB, R2, G4, VS, B0, VB, V3, B5, RB, V7	G3, G0, R3, B4, V6, 61, 60, Val	67, CS, 64, C4, VE, 61, NG	61. KS, 83. C£ C3. HS, 86, 84, E7, M2	₩ (15)***
		8	**************************************		See Total	3 0 /20
	Тородгарау		3 📫	c	٥	
4	Ageds (>19% slept)		Emi S	<16% stope all asperts	West 12	Seeth 15
í	Silve (NI)	KH	18-19 problem score legiscrib stopes	31-44	45-54	>55
		1	The state of the s	10	Q	15
•	Londo	Rie 1	Rolling	Sleped terrals, minor law rebell during	Consistent Hope Single Bullion (Miller 7')	(provient slepe, deep publics 10
P	Landanpai Responder Underlose in Hillabe Sproof	< 5 ha maintei-forest land 	herth antion east asperts decreate, wild insupread restricted from South and to their 2	ideantainous tenain, protein legography, regular aspert and disper changes, martin le meacritiese le martin legograph large afgan finders	Rolling seeming, manar writer bodies, minimal aspect and slope changes, minimal restrictions to will their spread 80	Confination, consistent separately do remission se- witther spread 15
. DE	L WEATHER AND TOPOS	SRAPHY	3(WEDFIEL	See Field Linearious Theoder Scott	/55
. noise	Precised.			C	D [15 "
•	Publisher of Street and Community on Slape	No Structures Values will No 2 km O	Ballion of dispe, valley bottom	46 distance benchland, elemand valuey, < 16% player 10	Nid-stopy continuous, >0 % 1885y 1)	Upper NO of Slage 14
•	Lips of Dandapount	No Structures Yallies within 2 to	Perameter laterface. ne industero	Permeter Interface.	triuman > 1 structuru/tu	triberarie « I straighere: jethystjenistere 10
	Parking of Assessment Acres Reliedes to Values	Ma Structures Tables within 2 km 0	>500 200-500 <200 m 1 14 20	5-deh8i >501 200-500 < 200 m 1 62 25	#30/56# Mg >580 285-566 <200 M 1 13 25	>500 200-551 (70) 1 15 31
md I	only if Puel sub cotal is >29, to Stactural (suspensed enly if Mile is Score is >95 for anthoused pulygor				CE WILDFINE THREAT SCORE	47 m
ar.	ra Baharukour, Threest Clease I-41 [] r 41-95 [4]	icheck rypikable (lass)		Wildland Urban Jaw 9- Matrate 14		drede a pplicable d assi



 $City\ of\ Kamloops-Wildfire\ Threat\ Assessment\ Picture-Plot\ 73$



Photo 73-1 @ 200 degrees

dfi	re Behaviour Through Chase B-H 41-95	(deck applicable class)		Mildland Urban J (en 4- Notrate 14-	Social Co	rkerk spyllrable dansi
106	omly if feel hab condex 29. No Structural rempenent only of Wild in Score is 255 for unfocused polygou	Dre Thesa			CE WILLIFERE TWO EAT SCORE L WILLDPIRE THIN LAT SCORE	174 13
	Relative to Values	Yakes within J los.	>544 (442 < 100 m 1 14 m	>944-294-500 < 200 m	>580 200-560 < 261 m	>560 260-516 250 m
	Type of Development Position of Assument Area	Na Structures Traines and them 2 fers. O	Perimeter interface, 40 m/s interface, 3 1 Above	Perlamentagoriste.	Enerate > 1 structurefu 8 Rat/follog	Intention () structured lefracture on M
	Antibus of Stratum/ Commonly at Stope	Ha Strausures Values milhon 3 tom O	Battorn of dops, salige bottom	Mid-Hope Sensible and, elevated wider, <16% slape IQ	Maintage confirmaces, > 15% slope 11	Up at 1/3 at page
_	Structural	A	<u> </u>	C	D	
VI	L, WEATHER AND TOPOL		4 22	\$30 mmm	Sen Total Senamora Tempert scrape	1240**
,	Ladupe Respects Linkdon in Water Synu	< 5 ha rest à tell forest land à	Morth sealer capt aspects decrease, widele special restricted from South packer West	Missetaleass ferrals, bedom impegratin, regular superi and slope disages, making its restrictions to writing superiodies in the superiodies	Realing seriam, minor water basing, minimal supert and slope changes, minor resistances so artistics sproad 10	Continues, equipped lopography Harcontrison to weldfire spread IS
•	lamb	Flat k	Mediting 3	Stoped terrain, trines feet relief dissen	Consistent stope, vices stant and state quites	Consistent slope, deep guilles
5	Sheritel	<16 t	for parts dipper	30 -44 Ia	45:54 13	>5\$ >5
	Aquestr (> 15% playe)	U		* No Stage of aspects	West 1)	South 25
14	Topography	4	360	E .	P	
				D (27)	Şair Telaj	D5 #
\$	Historical Months Occupants for Wall for June)	65, 01, 92, 66, 95, 90, 19, 93, 85, 84, 17	G3: G8: R9: PA Y4: G1: 69: VE 5	62.63. GE. CE. 91. CT, R6	F1, KS, ICR, C2, C1, MS, 16, M4, M7, M3 36	W/12941
2 .	Degenthentic Inc	JJ, Inligated	CMH, CDL MH Bry Zonal Mrt S] [ICH, SBS, CSSF Bry Jonal Wei 10 J J	DY, MG, SUPS, CMM de 1 & de 2, BANKS, SMISK and Jane 1 Met 15 (10) 5	PP, 4G 15
_	Washer	A			D	
-			. '	5	Sub-Trick	
i	Continues Forest/Sean Coury addition (N)	- 124	5-25 5 21-40	>JS-56 10 61-60	350.75	575 30 541
8	Faces (facilità	Standing Dept and Partly Dept < 5 Depth Standing	Standing Bean and Partly Deam	Standing Broad and Pourly Down	20 Scanding Dead and Partly Down	Standing Dead and Parth Grand
3	Base Height (m) the mail family Suppressed and the destinate Cambries (stress And)	co-en distant	\$9124800	7)H01-4800	>4440
_	Live and Dead Goodles Green	Seer < 2000 confer) Fel	1-<1	ري
	Canal Gappy (%) Live Decidence Cover Gappy (%)	/ / / / / / / / / / / / / / / / / / /	9#	10 10	10-40	70
	Large Woody Dalets Contractly (>700) (% count) Live and Good Continuous	<10	<10 coverage	61-40	nel devoted	partially elevated 10
_	Face Wandy Debah Continuity (< = Reput (% cures)		Scattlered,	7 7 W-25 coverage	< 10 cm deep 10 > 25 cmerage.	> 10 cm deep 15
_		Hararabalty Reeds	,	N-25 coverage	>15 (Menage,	Arriefoge Bresh, Scooth Broom 5 >25 connage,
ľ	(Marchiter ford	Moss, Herts, Image ted Craps, Low	Herts, Beardones Strutes	Lichert, Coulter Shrulls	Aneques,	Sagebuch, Lundgrass,
	Surface Facilities	<10	0.y 0.630 Marq 5 3 1 24-40	01y Zonal Met 10 6 2 41-40	Dry Jarrel Wei 12 3 6 61-80	15 10 5
	Paral Paril Depth and Mastern Region (Ana)	1	2-st	5-<10	10-20	>3
		SFELIGI . T	不在我的经验			
		760000000000	**			ومهار سيسيان
	25° 74	Land Owner St	Worm Per	16.7' U		-7
zir:	111	endiner p	LAN 19	Mater Sa	MCK.	44
Z.S	canel 8 ==	Community		A GOVERN	V	
(d)						

 $City\ of\ Kamloops-Wildfire\ Threat\ Assessment\ Picture-Plot\ 74$

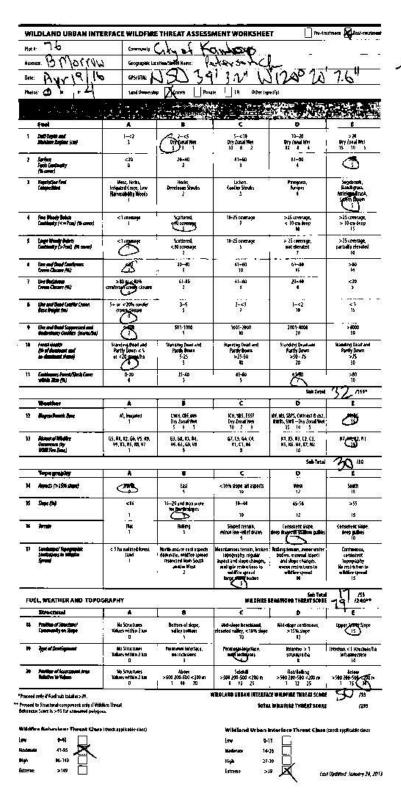


Photo 74-1 @ 230 degrees

303V					_ 4	- Ti-
-	DLAND URBAN INTE	1	E THREAT ASSESS	MENT WORKSHEE	7 Z Pw-fre	ubarat _ Rest-intitu
Hot e		(sermonly	Myg	to your	- 1	3
bez	- Morrou	20 69	ubsol/line Name	- Achie	سيل	Ca V
NAPA:	Variable	#Parulle	137.21.		ا (من محالا	. ජී"
7000	14	Land Ownersh				
		izo-ficial		W 1 12 2		
	Puel	A		¢	D	
	Bell Bepth and Mediture Regime forti	0	2-c5 Dry 2-bal Wel	S—<10 Dry Jacob Wel 19 6 3	Id=20 Dry Jonal Wes 17 B 4	>20 Day Zonali Wet 15 Mi 5
2	Services Facts Complemently (No compet)	¢.20 0	20-40 1	61-00 3	07 -4 0	(3)
3	Hegelotion Food Composition	Moss, Herbs, Imigased Coops, Loss Fjammability Weeds 1	Hertzs, Deridzonij Skrads. J	Luchen, Comfer Shrubs 3	Pineguas, Jumper	Septimish, Amelyana, Antriope Bush, Septiminaria
•	Fine Boody Bobels Guellaulty (c=7an) (hi cana)		Suggested, <10 coverage	10-35-cowerage T	S25 coursage, < 16 cm dang 10	> 25 centrage, > 30 cm deep
ş	Large Musely States Geologically (>7cm) (% cover)	~ (m)	Scattered, <10 :overage	10-35 coverage 5	> 15 coverage. not elevated	505 converge, partially elevated
•	Due und Dend Gastleren Garge Octoop (%)	<10 1	24-40		n—eq IS	10 > 0) 10
7	Live Decideous	>41-02 < 40%	41-80	41-60	30-40	-A
	Corner General (%)	D chalgener hours govers	2	3	4	رب
•	Line upp Street Contier Corons Store Stolyter (ex)	Se or <200 confer crean dissure	1-3 1	7	10 1-<1	9
,	Live and Dead Suppressed and University Couldes (Harrochel	6	591-1900 5	1007-700 0 10	2401-4460 24	>4040° 31
*	Ferst Health (h. of perspense and an-deminent stores)	Standing Dead and Pardy Down < 5 on < 20 stemeths	Standing Braid and Partit Dates (F25)	Standing Breat and Parity Deem \$25-50	Stanging Bred and Partly Bown >50 - 75	Standing Dead and Partly Boom 575
11	Combinators (sense)/Silvab Committee	0 0-24	2140	10 47-64	, M	91 MD
/C	Adding Spin (Ar)	0	1	ś	(M) Tara	≪ 4 /155-
	The party		T 15 14	'ë '	6 11	4-
12	(tegenetheasir Sont	AL Impated	CWM, CDE, NH Dry Zarud Wel	BCH, SBS, ESS1 Dry Zonal Wei 10 1 3	DF, AG, SBPS, CHMIGST & IG2, BMMS, SMMS—Dry Jamal Wes. IS 10 S	
13	Historical Mildler Conservers for 1988 Fire June)	65, M. 43, 66, YS, Rb, V9, V3, Rb, Bb, V7	63, 68, 73, 74, 16, 61, 61, 118	67,45,64,64 11,61,86	K1, K5, K9, C2, C3, S15, K6, M4, M7, H2	102-TQ-102-141
		23	3	N 950 X	Selb Firtal	200
	Tepography			C	D	~
4	Aquests (>19% stope)	Herth +	(2)	<16% dage all expects M	Med 12	Sweth 15
15	Super (IN)	< No.	16—29 and man source for Health allopes	(*)	45-54	>\$5 15
16	Remain .	Roat 1	Rolling	Stopen torrain, minor fow relief stores	Constantiales, deep draws or shadow judies	Consistent slape, deep galles 10
17	Landscape Apparation Landscape to Military Special	< 5 ha salated forest land 1	Heret and/or rays aspects demonster, which in spread restricted from South and/or West 2	Houseanous tenters, Anthers I spography, regular supertural place changes, mailing in productions in the south below	toling tensin, more visite lades, mineral spen and stope changer, neroe transferint to widd in total	Comments. consistent depayments Mo resortises to weddin spress
FUE	L WEATHER AND TOPOL	SA A PHY	NC	WAARIE	Seb Ford REMAYOR ON THE RELET SCORE	
	Structural	٨		C	9	1120
Ħ	Problem of Structure/ Community on Steps	No Sinctures Tallogs within 7 km 0	Batters of steps, willer comen	Westege brackisms, elevated valley, <16% Hope 10	Mid-singu cantinusus, > 15% ulape 82	Oppus Mary Slave
b	Type of Development	Ma Sincanes Yukses writen Jikm D	Pereneres lateriace, no incluyeda:	Penanga Jatertaca,	Programs > 1 physiquesites \$	intermen « i structione)? jeft geforgiskere i 0
2	Position of Assessment Area Relation to Values	No Structures Yalkars within 2 km	Above >300 200-500 < 100-m 1 16 /0	5-54-20 >504-203-505 <100 m 3 12 25	Rai/Leting >550 250-550 < 201 /u 1 1/ 15	5464 550 36-50 270 1 15 H
aced Arres	only if Aud sub costales 25. as Sourment congruent color; if White in Source 1, 245 for arthretical polygo re the brown our Three at Climan b.46	•	3		L MIR. PRINS PHINS (IT SEAD) Industria see Thirant Chair	, p. 1985
derzi h	900000			Nicoleania 14- Magis 27- Estrame 3	. D	st Updased: Seasony 24.



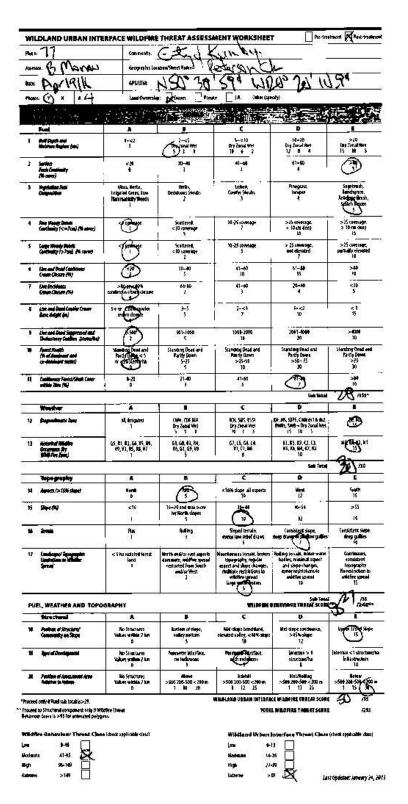
Photo 75-1 @ 225 degrees



 $City\ of\ Kamloops-Wildfire\ Threat\ Assessment\ Picture-Plot\ 76$



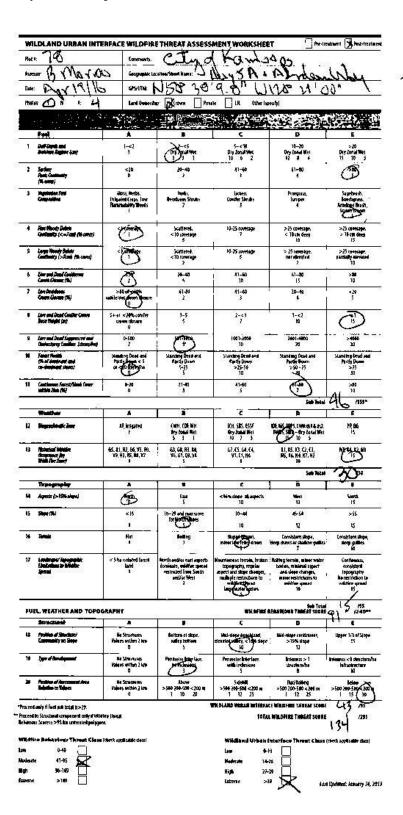
Photo 76-1 @ 90 degrees



 $City\ of\ Kamloops-Wildfire\ Threat\ Assessment\ Picture-Plot\ 77$



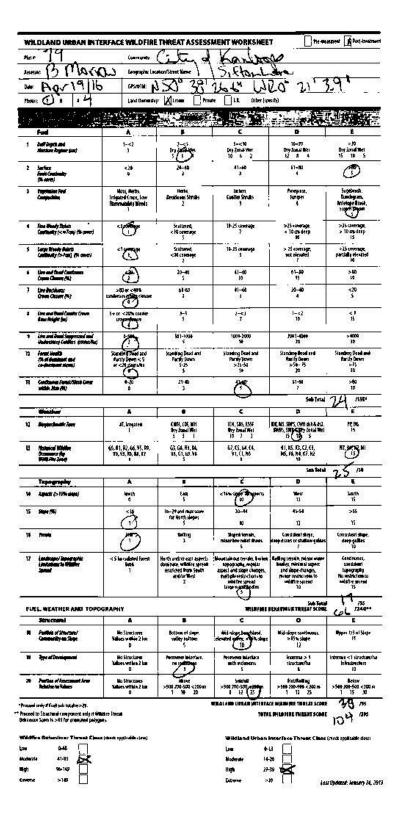
Photo 77-1 @ 225 degrees



 $City\ of\ Kamloops-Wildfire\ Threat\ Assessment\ Picture-Plot\ 78$



Photo 78-1 @ 60 degrees

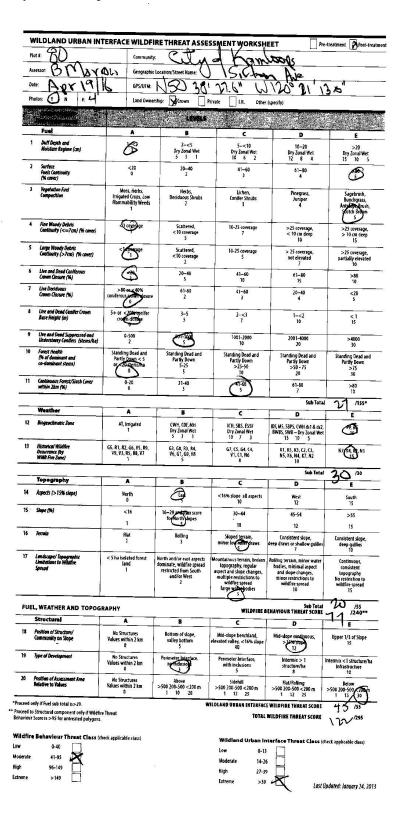




City of Kamloops – Wildfire Threat Assessment Picture – Plot 79



Photo 79-1 @ 340 degrees





City of Kamloops – Wildfire Threat Assessment Picture – Plot 80



Photo 80-1 @ 45 degrees

WII	DLAND URBAN INTI	ERFACE WILDFIR	E THREAT ASSESS	MENT WORKSHE	T In-me	riment Port-breakin
1010	531	(penyal)	6-4-1	60- le	0.000	1000
982	500		schowStreet Harre	Par A	(3) ou	
	DI DKY	-	~ 2 O		7-7-7	W 441
*	Agraph	81 - ST - S	<u> </u>	<u>g, zg, 1,</u>		DV 44
laki	and the second of the second of the	Land Dwowed				
	12 (1 to 12 to					
	Fuel	A	<u> </u>	c	D	e e
ī	Arbense	بنبدر	1-45	5-< M	19-30	>20
8	Moditary Regions (car.)	0	Dry Zorud Wet	Dry Zerul Wei 10 6 3	Dry Zonal Wel 12 3 4	Dyr Zonal Wet 55 No 5
1	Sacjer: Facts (matempty (No catem)	QN 4	70 -44	41— 44 3	61- 4 0	0
3	Hyperation Fact Continuation	Mons, Herts. Imparied Graps, Son Rommability Woods 1	Hertes, Deniforus Sarabs }	Juthen, Conner Strubs	Principals, lamper 4	Septimoli, dunchquess, American Brush Septim Brush
i	Fire Wandy Debris Customby (<= Fast) (% curs)	,⊜ ,	Scattlered, <10 coverage	10-25-сомнаде 7	>25 concases. < 14 can deep 10	>25 umeunje. > 10 om desp 15
5	Large Shooty Debris Continuity (> Faut- (% cover)	•	Scattered. <10 coverage	10-25-coverage 5	> 15 overage. not desires	>25 corresage. partially densited 10
6	Life and Dead Guilferns	<u>কে</u>	20-46	41-46	41-80	>60
	Court Court (N)	T T	5	H	15	8108
'	Live Decidences Corner Classer (%)	SALES CALLED	61-80	41-66	20-40	420
•	Line and Dead Carefus Green State Weight (m)	5-e or <20% comfer (Marry Glosore D	(3)	2-45 7	1-<2 10	4 1 15
•	Line and Dend Suppressed and Understamp Continue Editors/Aut)	€	581-2080 5	1001-2000 18	3981-4988 20	> 4004 30
-	Formi Realth (to all demicrate and on demicrate storic)	Scanding Dead and Paulip Done < 5 or < 20 stems/ho	Standing Dead and Partly Dawn	Standing Dead and Faulty Down >15-54	Standing Great and Partin Down >50 - 75	Standing Dead and Farth Drawn >75 10
1	Continuous Forces Starts Corner	4-20	21:0	10	20 61-84	.w. >#4
٠	mile See (II)	0 4-10	5	. (°)	31-99	10
	10000		20 COSSES	76 W.W. 1928	Seals To col	32 198
_	Wester	A			<u> </u>	E
!	Biopodinatic Zone	AT, krigates	Gwh, CBS, Mh Gry Janel Rel 5 3	KH. SIS, ESSF Bry Jonel Met 10 7 3	DE NE SHE (WHI as a doub). Deta (1887) Bry fored Rect	15
3	Remoted Whither December (by Will Fire Zone)	GS, B1, R2, GS, Y5, R9, V9, V3, RS, RB, Y7	GJ, GL, RS. SL, W., 61, 60, WI	67, C5, 64 (4), 91, c1, 86 8	61, KS, KJ, CQ, CQ, HS, KG, HG, K7, M2 FO	N7. CENT NE
	10. 12-12 NO.	pt reserv		W	Sub Tetal	3070
_	Topography		1	c	P	E.
	Adverte () 15% physical	Rzeth O	(iat)	< 16% stope all aspects 10	West 87	South
5	Sher (St	- <16 ! .	16-29 and run score for literth dages	Č	86-54 12	>55
	<u> </u>	Rut	Asilog	Scood terrain		Canadatare dans
		ī	1	manor lear trian din en	Consistence ptops, deep drawns or shallow guilles:	deep galles
7	Exerbayer Rengagativ Linitation is HTMThe Syroni	< 5 ha nolated fares: land B	Morth and/or each agreed dominate, widefur special restricted free South and/or West 2	Misurcainess ferrain, broken topography, requisir aspect and stope changes, multiple restrictions to will discourse large, affect bodies	Rolling terrain, miner water bedies, mineral aspect and slape changes, errors resinctions to wild fan spead 19	Continuous, consistent isoography ite resinction to wildfare spread 15
	L, WEATHER AND TOPO	COTORA			Sub Total Sub Total PARISH TRANSPER EMORPHISM	Z3 85
o E	Strectural	SRAPHY A		C	ES PLANTO PER THRONE TAGRE	951 nam
	Problem of Structure/ Community on Steps	Ha Structures Values within 2 km	Cettors of stope.	Michigan tenchiana, elevated mility, < 10% slape 10	Mil-siege etchewits,	Upper 1/2 of Slope 15
	(pe of Dévelopment	He Structures Values nother 2 km	Penaneteripterlace,	Peniseterimeriace, via indicases	Imeraca > 1 dructernha	intenne « i sun etarish jefrastructure 3)
•	Profess of Assessment Sons Relation to Televas	Na Szruczania Volecza nietkari Z kon O	*Seo 200-500 < 200 m 1 10 20	5 d-ME >500 240-500 -2200 m 1 13 25	>500 200-500 < 200-m 1 12 75	>500 200-500 <200 m 1 15 3F
461	owię II feel wa coral u>29. po Structycal component oraly a Willia p Score p >95 fee untherted polygo	ra.		1014	KE WILDFINE THREATSCORE I. Will Divine Th reats Core	AO m an
virte	96-149	(Check applicable dass)		Lee 6 Nodeste 14 High 27	38	check applicable dasa)
me	>149			Extreme >	≫ - 	Updated: January 14,

Syp

 $City\ of\ Kamloops-Wildfire\ Threat\ Assessment\ Picture-Plot\ 81$



Photo 81-1 @ 190 degrees

WII	DLAND URBAN INTE	DEACE WAR DEIRI	THEFAT ASSESS	KENT WORKSHEE	T Re-	person R Post-treatment
Mel 4	97	(convert)	CA. IV	1		
lanes	of Mount	2 30 30 30 30	changers have	C17,000	Jan	- 20 - 30
20000	17 1 120	SPUBLIK IN	14/ 20	(3.48 C)	May 25, 3	711
Date:	101 JOLD	Sand Desarrate	p Acrown Ame	37.1. 0		
92771						
*	THE RESERVE OF THE PARTY OF THE		The second of			
	Feel			<)	•	>#
1	Pull Dayer and Melster Regime (44)	1=c2 3	try and	Sec 10 Bry Josef Rei 10 4 2	10-20 Dry Eunal Wet 12 B 4	pry /anal Wet 15 10 5
2	Surface Read: Committee by (N. committee)	د. 0	10 -4 0 2	61 -6 0	81—40 4	.
1	Hydrinion Ford Composition	Mess, Hartis, Julgated Chaps, boar Fjurnnablijkry Weeds 1	Perto. Decidações Serabs	Urbea, Conder Skriebs 1	Paergrass Igraper 4	Sapetrush Barchgeas, Arcaline Brush State Dearn 5
1	Place Wessely Dathela Continuity (<=7cm) (No cores)	**	Scattered, c10 overage 5	19-25 coverage 7	>25 coverage. < 10 cm deep 10	>25 (414,1791 , > 10 cm deep IS
3	Large Strong States Continetty (>700) (N GMC)	<1carcage	Saltered Saltered	18-25 coverage 5	> 15 (sequiple, and devated ?	>25 coverage, partially desided (d
	(See and Dead Continues (page (Separt (N)		10-40	41-00 10	63 -8 0 15	>10
7	(Inc. Decreases Grame Charact (NA)	200 or < 44% constraint of motion of section	51-81 }	41-44]	25 <u>4</u> 0	s in
,	Line and Soul Godfer Owner Error Melyler (m)	See Care corder confidence	3-5 6	7-<}	1-<2 10	< 1 15
,	Disc and Dead Suppressed and Disdustring Contines (Steam, Aus)	_ 🕭 _	5e1-13e0 5	100 1-2000 10	2091-4800 20	> 4011 36
W	Forest Profits (% of department and on-department should	Standing Deed and Parity Owen 4 5 on 4 70 stemaths 0	Standing Great and Smith Brian	Standing Bearl and Family Deam > 25-50 10	Standing Deed and Partly Cover >50 - 75 28	Staryling bead and Partly Brown >75 92
11	Continues Forest/Short Forest within Dim (%)	D-25 d	21-#F 3	(5)	61-10 7	>40 10
					Sain Fertal	30 m
¥	Masther Especiant Inc	AT, Immyeriesi	CWH, GM, Min Disy Zonal Vers	KH, SRS, ESSE Dry Zonal Wee	MF, MS, SBPS, CMIT-6, I G-662, amps, swit _ Day Arrail Wes 15 _ LOS _ S	Will line
10	Marrical Wilder	65, R1, R2, 66, V5, R9, V9, V5, R5, R8, V7	5 3 1 G), Ga, RS, 46. 94, G1, 69, VI	10 / 3 67, 65, 64, 64, 91, 61, 86	15 (40) 5 81, 75, 43, 62, 69. 85, 86, 84, 87, 82	H7, 64-42 ISI (15)
	Occupancy By ISSE Plan Sure)	7	YH. GT. GA. VI) b) Sub Teksi	
					D	7/2 m
14	Topography Aprils (>15% steps)	/S.	East	Party and the same of	W-u	South-
9250		ري ا	5	<10% slept of aspects M	.12 _	15
15	Shar (%)	c 16 1	16-29 and man toute topffeith shows	W-44	45-54	>55 15
16	Foreix	Ret 1	Rolling	Sieped terrain, minor lowedlef draws	Canazzione singe. deep din uri de philipela giallus	Consistent stops.
T	Landscope Exposmolis United to Minister Spread	< 5 ha isolated licrost land	Retile and/or tipic impacts describes white spread resources from South	Hosetainous teach, breken topography, rigidar supers and ulsper-through, malight researchers to writing spread targe mater bodies	22 (25	Confirmous, conscient repulpately Na realizaben in will the spread
FU	EL WEATHER AND TOPO	GRAPHY			Sele Testa DENDANGE TIMBERT SCORE	17 /7 /240-
	Structural		· •	C	Ó	1 1
18	Applica of Streetwey Community on Steps	He Structures Values airthin 2 on 4	Eattorn of slope, salter betters	Mid-steps benefitand, deposited using, <16% steps M	Michilege gradunacus, > 15% stoph 12	Upper 1/3 of Slope 15
19	Special Development	No Structures Values unites 2 ten D	Penade interfect	Fescheter historie with industrial	leterms > 1 Streetow/ha	Internus <1 structurelles Intestructure 10
M	Pathins of Assessment Asses Belanka to Values	Mo Structures Values writin 2 km	A\$000 >500 700-500 < 246 m 1 M 20	Sub-half >500 200-500 < Mem 6 12 25	Firt/Rating >584-204-508 < 200 m 1 12 25	>501 204-500 (7804) 1 15 20
Property	t only if Fuel substitutel is:>29. Its Stan, land compound only if Wil ur Scare is >95 for animated polygo	thre lived	100	WHEELAND URBAN INTERFE	Lit c	45 %
	tre Behandout Threat Class	i (Oked): appis: abite «1216)			Interloce Threat Class	ickeok applirable risesi
koe Malaa	048 ☐ 4 41.65 ☐			Lam + Nadesate 14		
Haden Refi	41-95 (35). 95-149			Madesale 14 Majo 27	-26 -39	
- Tires				747 5 100 - 30		st Updated: Seemery 24, 20



Photo 82-1 @ 360 degrees

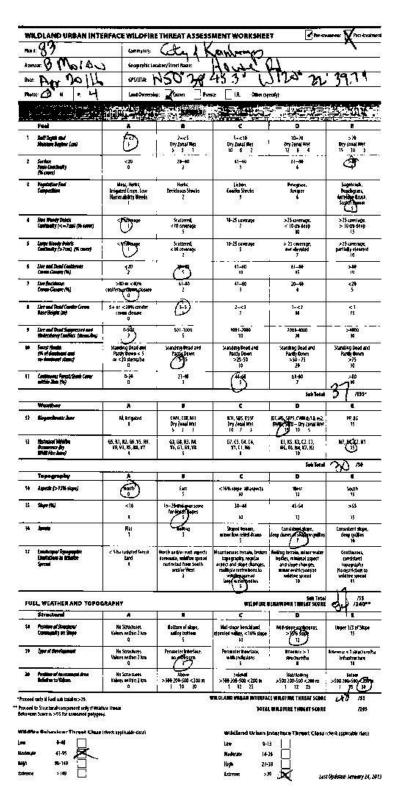






Photo 83-1 @ 360 degrees

030v	A.I	Tos 59	+-	MENT WORKSHEE		faunt Anti-trains
W I:	84	Community.	Cily -	Kany	10001	
9619	· B WAY	7 tra Geographic Lo	carren/amort Hame: 🖺	CP 69	1002 10 5 105	2000
uhr:	Mar Will	E EPSIUTINE A	155 180	52.5' \	1154, 13,	14.1'
et:	(C) 1 - 4			- 100 100 - 10	u- 1.:	
-	200			_		27793 927
S	na n		西 布茨基础表			
3	Feel	.A	1.5	c ∫	10-24	B K<
! _33	def depth and Michigan Region (cm)	T .	bry bened 5 1	Ory Conal Wel HI 6 2	Dry Zonak Wes. 12 E 4	Dry Zanal Wet 15 IO S
1	Sectors Park Gradually - (Normal)	<20 0	3.0-43	67-60 5	63-86	(3)
3	Negotation Final Compacition	Moss, Herto, Intigated Cases, Bose Harmpackhty Monds	Perito. Decidores Stratos	Uither. Confer Strubs 3	Prengress, Interper 4	Septiment, Bankhguns, Antrikon Brush Septiment
4	Ane Wandy Selvin Continuity (<=7cm) (16 stotes)	el unici age I	Constant	10-25-coverage T	>25 co strage. < 14 cm dec) 10	> 25 (comeage), > 50 cm dates 15
5	(age Wardy Balas Collector (>7cm) (% cores)	c Latterer	Scattered.	03-35 coverage 5	> 25 coverage, nat directed	>25 canadage. partrally elevated 10
6	Unit and final Continues (room Classes (III)	<.00	(1)	41 -6 0 10	61+4 1	5 40
†	(Ne Decisions Grant Chaire (K)	200 er celle understandenser	6H40	41 -60	20-40	<2# 5
•	Live and David Castler Crosso Stars Helgier das	5+ or <20% conites grown decars		1-41	1-c2 16	_ _
1	Line and Deed Supercood and Understony Gusters & Stanisha)	(3)	501-100 1	1001-2000 80	2011 -8004 20	>4000 30
×	Farms South (% of destroys and or-deminant draw)	Secretting Dead and Partity Dead of 5 or <30 stems(45	Standing Dead and Party Brain	Steading Dead and Parity Down > 25-50 10	Standing Bred and Partit Dean >50 - 75 20	Standing Dead and Partly Denot > 75 10
11	Continuous Fancs/Shath Cover adrible 2864 (RG)	05.4 0	21-40	0	41-34)	>80
					Self-Tetal	ر الاستار <u>ح</u>
·	Techer			· C	D	E
Z	Negatinatic law	il Impired I	Pry Zonal Wei	ECH, SES, ESSF Dry Jonal Wei In 1 b	DE NS. 5075, CHR-0214 457. BHB's ARE - Dry Zanol Well	PP. QC 15
12	Hipselad Middle Construct By 1996 Fire Engl	G5, R1, B2, G6, T5, R4, V3, V3, R5, R6, V7 1	65, 62, 83, 84, 76, 61, 61, 76	67.45, 64.44, V1, 61, M6	10, KS, KO, CQ, CQ, MS, TA, HA, 167, N2 10	MACE III
		2:	10 St	70 S	Solt Tetal	30 ™
***	Topegraphy	A		_ c	D	
H	Agents (> 150s steped	Hores. D	ල	<1600 slope all aspects	12 12	50mth 15
H	Sign (NJ	eli I	16-79 and man score too had to stopes	51-44 10	65-54 12	>55 15
ii.	Junio .	Ra 1	1	Sleped remain, mores less select de ens	Enrathiest slape, array maks or shallow galles	Coractest slope.
17	Landaupe, Represente Linearies m White Spread	< 5 ha included forest land	North antiror east aspects deninate, melfilm special restricted tree South embler West	Manager serrain, broken hopography, regular agreed and dapp changes, multiple restunited to without press targets agreed targets agent poders	0.000	Continuous, consistent repopraphy He restriction to whither spread is
ful	EL, WEATHER AND TOPO	GRAPHY		WILHER	Sub Total Dimmagen Transpar Score	99 755
20.10	Structural				Ů.	Carrier Minister
14	Produce of Structure/ Community at Stope	No Structures Volves within 2 her P	Section of slope, spling bellions 5	Mid-slope bench hand de-west party. 16th dops 18	Mito-disperturments, >19% disper	Upper 1/3 of Stope 15
H	Specif Developmen	No Structures Values with le 2 has D	Pentrecer Ingelia	Preparative injustace with enclasions	intermento i strecimento 1	Internal <1 structure/ Indicative/cor 10
×	Paties of Assessment Aver Rabelin & Valence	No Structures Valley, weekle 2 km O	>500 200-500 < 200 mg	5 600 700-500 4000 rs F 12 25	Ret/Rolling >500-201-500 < 100 m 1 02 25	>500 700-500 < 200 e
	orly of Final sub-local type 27.	78	00/9550 0K		CE WILDFINE INCENT SCOTE	50-0300000000000
ceed	only of Pupit sub Local Ign 29. In Structural component with 11 Wil of Score in >95 for universited polygic				Į WĄDO (OB TWOSAT SCHOL	
di	re Sahaylaar Throat Chu	n jehoek nypikabih almaj		Wildland Urban	Interface Threat Class	(check applicable class)
	D-H [nerd 20100000000000000000000000000000000000		Lanw G-	11	
	Jens.			920forms 13	200	
Sessi h	98-149				.s .	



Photo 84-1 @ 150 degrees

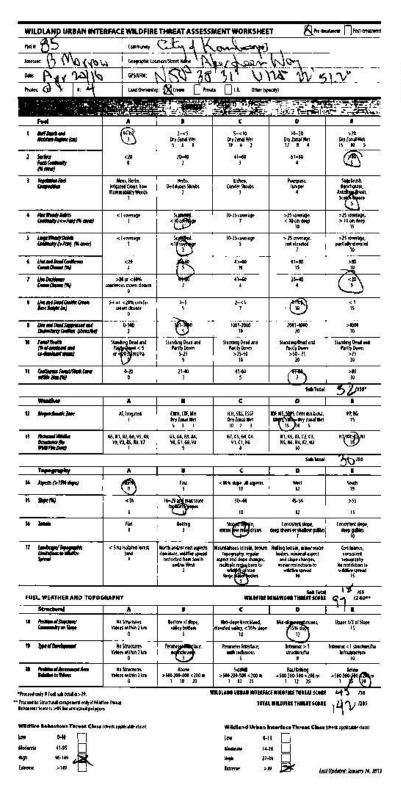






Photo 85-1 @ 315 degrees

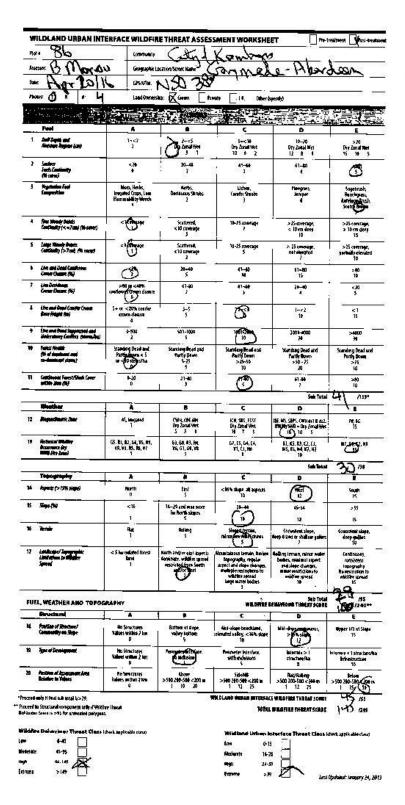
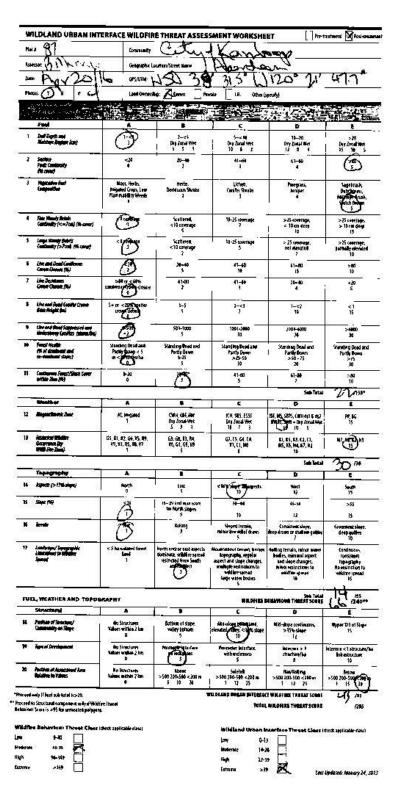






Photo 86-1 @ 315 degrees





City of Kamloops – Wildfire Threat Assessment Picture – Plot 87



Photo 87-1 @ 160 degrees

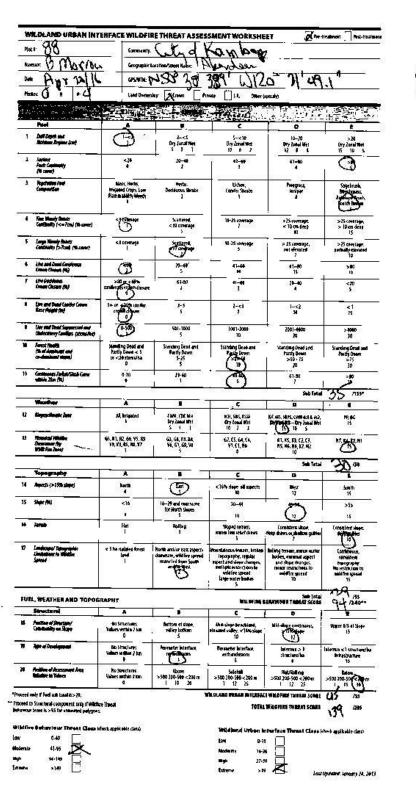
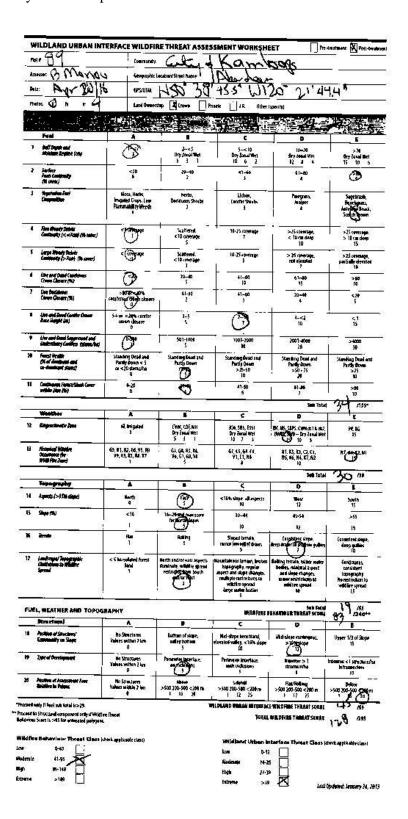






Photo 88-1 @ 290 degrees

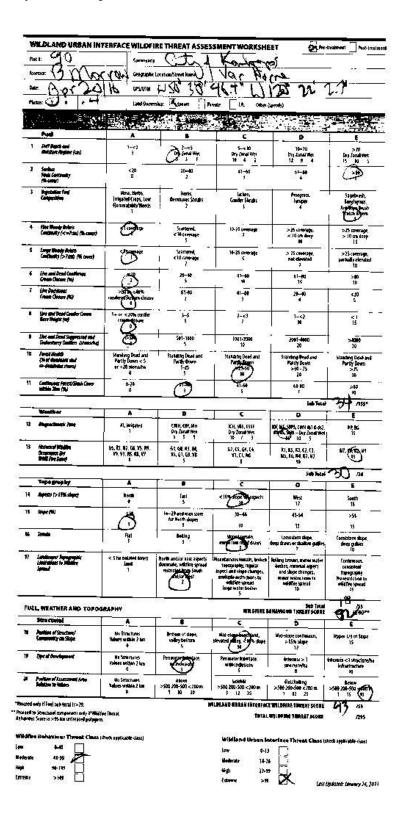


J

City of Kamloops – Wildfire Threat Assessment Picture – Plot 89



Photo 89-1 @ 180 degrees





 $City\ of\ Kamloops-Wildfire\ Threat\ Assessment\ Picture-Plot\ 90$



Photo 90-1 @ 180 degrees

WILDLAND URBAN IN	ENFACE WILDS	IRE THREAT ASSE		EET H	e-treatment Real-t
<u> </u>	Communi	· Cetta 1	Comes	<u>~</u> _	100011101
BALLON	A Geographi	c Lacabon/Street Asser	71.10	Man Ou	0.8
* Par 20 16	e sura	137 38	487017	17 7 W.	37.51 —
NIES (I) N I: 44	Land Drees			(specifi)	37
		THE RESERVE OF THE PERSON NAMED IN	FE PARK STATE		ne e≅ dese
No.					
	1- c)	+ :-	· -	P	
Moisture Royane (cur)	1	Zonal Wes	Fig. 2018 Wei 10 6 3	10-20 Bry Zonad Mei 12 B 4	>20 Dry Zonal Week 35 HP S
Surface Field Continuity (Ni count)	6 6	20—4a	#1—44 3	61-NO	③
Vegetation Red Compatition	Moss, Herts, Imported Crops, Low Rich mobility Weeds	Hartic Securities Struty)	Lichen, Contier Shrufty	Protegiese, kunpu	Segebrisch. Briedligens, Antologie Brisch Sebzelligeons
Fine History Points Committee (4 = 7 cm) (% comp)	<1 correspond	(Section)	10-25 to mage	> 15 coverage. < 10 on the p	> 25 sprenge. > 10 m deep
Large House Bulant Contrasts (>7-pa) (% const)	<1 symflige	Killnet,	10-25 otherage	> 25 centrage, net desired	>25 coverage, partially elevated
Lite and Board (configures Grove Obsert (N)	(A)	20-11	#I- 44	61-E0 15	>80
Core Cleaner (%)	centrolis chila cloure	61 -16	41-60	20-40	<10 5
itm and Bend Carifor Groun Proc Adapte (m)	Se or compete	1 3-5)-d1	3-e2 10	e1 15
Live and Book Suppressed and Bioleculary Casalins (Americka)	3	\$01-1000	1601- 240 0 10	2001-8004 26	54000 34
Forest Hought (In of destinant and co-destinated steam)	Stateling Dead and Partly Deam < 5 or < 20 strenges 0	Standing Decitions Factor Sopra	Standing Dead per Paully Down >25-54 10	Stanting Dead and Faith Board > 50 - 75 30	Standing Dead on Partly Deam >75 30
Carifficians Forgat Stack Cover will be a fix	0.70		41-10 5	41-FG ?	>80
Westher				540 Text	The state of the s
Physiologic Proc	AT. Imparies	CWH, CAF, MH Dip Zond Wes	KH. SNS, ESSE Day Zonal Met	IDE NS, SSPS, EWH at 1 \$ 452 PRESERVE - Day Januar West 18 10 5	Ph. DS.
Historial Middle Contract By Stati Per Zum)	65, \$1, 42, 64, 75, 64. 15, 93, 85, 44, 97	Ga. Ga, Ra. Ra. 195, G1, G1, 198	G7. (5, 64, 64, V1, (1, No	KI, BS, KE, Q. G. KS, MS, MS, KP, KR	", ", ", "
		to 1960	-	Sab Teta	30 11
Тородгарду] <u>c</u>		
Apperts (> 199 stope)	Heith	(3)	<16% slope all aspects to	Bed 12	Soeth 15
Shipe (%)	<16	In and new store	19 =4	45-14	>11
		fer Morth slages	மு	12	15
Remark	1 1	Raffing 5	Slaped Lettela, raints forwalled streets	Cansistert slepe, deep drawnes(IIII) on Julies	fatsioleet slege. deep guilles 10
Landings / Engagedis Contractor or White: Springs	< 5 Pla Hotaled Firest land 	Shorth profess card aspects deminate, saletine spaced restricted from January 2	Mountains is terrala, brosser fophyriddin, requilar aspectatul Jope changes, multiple reductions to widdle special forge water bothes 5	Rolling terrale, miles water badies, mileral aspect and absentingues, whose resinctions to wild for spread	Continuous, consistem reportugingly No restriction to wildling agreed IS
L WEATHER AND TOPOS			ALT MININ	Seb Tetal	98 240
Structural				_ D	77
Paidia of Stracture/ Columnity on Stope	No Sinctures Values orinin 2 tan B	Buttom of dope, valley settum	Alterstage benchistre. Interested and ep. of My. Mayor 10	Mid-Single continuous, > MESSage 12	Piper I/3 of Slaga 15
Ope of Development	He Same lares Values within 2 km D	Primelectate lace and the sales	Permenter tree-four, write-makeue as	Inserting > 1 Sherberging	Internal v. 2 pice, force) Internal vice
Position of Assessment Area Relative to Vojecs	No Sillactures Values origina / ser B	>500 /00-500 < 240 m	>500 700-500 < 240 m		Star 700 Store 700 r
ely if feet sub-istal (5>29. Structural companent colly of Wildler Score 11 >45 for athrested polygens.	e Nucut		ACMITAIN SEPTIMENTAL PRICES PO	LWILDSFAR THREAT SCORE	25 85 295
Schoolag Toron Class H	neck applicable (1950)		Low 0-13 Nodewis (4-2	-	dterk applicable class;
			Heggs 27-3		

City of Kamloops – Wildfire Threat Assessment Picture – Plot 91



Photo 91-1 @ 40 degrees

T I	LDLAND URBAN INT	HATAKE WILDE	RETHREAT ASSES	SSMENT WORKSH	EET No	destinent Post-re
Photo o	42	[HERVING	C.T.	IK ~ II-	- ^	
mes.	- Brown	This security	Loranes/Street Basse:	1 Bruss	The D	
				1402	MON- 1	Y 1 1
ele:	-	GPS/UTAL	H& 38,2	33. Malle	M 113	
hoje	200			made [] t.C. Diber	(specify)	ASSI-18
					our hos	
	Feel					
	- 6	<u> </u>	<u> </u>	€	ļ <u>.</u>	E
1	Dell Depth and Maistan England (and	1-43	Constant Men	5-c16 Dry Zonal Wes 10 B 2	05-01 158 km2 km8 4 5 51	>20 Dry Johal Wet 15 10 S
	Satter Fool: Continuity (N. const)	e 246 d	20-44 1	41 -64 3	61- 9 0 4	(3)
,	Teperation Fact Composition	Mess, Hents, tinguised Crops, Law Rammusk try Weeds	Herta Decideous Sharbs 7	Lichen. Confer Stanler I	Pinegrati, Jelisper L	Sagabrinia Benchgrass, Maryland drovis, Social Brown
•	First Breety Seins Contractly (<-Too) (N com)	4	Scatterel. <10-overage 5	10-15-roverage 7	>25 consegge, < 16 cm desp	>25 cenesage, = 10 cm deep 15
5	Large Plandy Defent Continuity (> Food 1th cover)	***************************************	Scattered, < Hresverage	10-25 comusqu 5	> 15 coverage and retrailed	>25 correspo. partially elevated
	Cher and Dead Conditions: Chern Chinari (SL)	(P)	26-40	11-60 10	6!-30	>88
	Dec Decidence Contr Grance (St.)	seaferals days doses	61-H 2	41-60 5	.ro_40	<.N
	i he deal Dead Conflor (1960) Sace Height (m.)	Se or < 20% cetalfer grown dosum	3-5		10°	<1 15
_	Ore and Dead Suppressed and Orderstook Confles (Houselfu)	4-500 }	503-1000 \$	10 10	1005-4006 34	>4000
	ferst Health To al deminent son CO-debinger stopps	Manding Deal and Portly Dees < 5 or < 10 stems/ha 0	Mandang Bread sale Tracky Denon	Standing Develops Facily Deven >15-51 10	Manting Read and Partly flown >50 - 75 20	Standing Dead and Partly Plous >75 10
	Continuent Ferent/Supel Comp official 2004 (NC)	6-70	0	41-40	61-40	
_				18	Sale Jeta	14 /19-
	Ynether	<u> </u>	<u> </u>	<u> </u>		
	Nopositanic Jun	AF, briggled	CWH, CDF, mH Sty Zonal Wel 5 1 1	NCH, SRS, FSSF Pry Book Wel 10 7 3	DV.MC SBHS, CWR do to 412 DWG SIMP - Ony Journal Best 15 16 5	PR 96 15
	Material (Mapley Scriptore fly 1542 Aur Jape)	GS, AT, R2, GS, VS, 10, V4, V3, AS, ML V7	64, 64, Rt, B4, V6, 61, 60, Vq S	67, CS, 64, CA, VI., C1, NG	#1. Its, #3, E2, C5. H5, H5, H4, K7, M2 10	47.4KDV:111
	_03			-	Seb Tetal	30 m
	(e pography	A		r	D	_ ~ _
1	layeds (>1916 slape)	Acerth O		<16% slage of aspects 10	1 %-ni 12	Saule 15
	Signe (NA)	514	16-29 and war store let fromb slopes	(10)	#5-54 12	>55
1	in Natio	Huc 1	Reling	Sloped terrain, patter few relief draws	Constitutions stope,	Constituti slage, deep galles
i i	mainings / Topographic Industries in Wigdler proof	< Sha lichard farest band)	Horth and/or each expects develope, which appeal retrieved from South	Nicertainees lerrein, broten topegraphs, righter agent and stope (Agages, matriple reductions in matrix spread large mater bodies	Belling serials, respect water booker, relations aspect and slape changes, distances including to wild her spread to	Continuoss, consistent lopography Microstoneo is- wildfire spread
EL.	WEATHER AND TOPOG	AAUY	300		بيدا ها	754
	trectural	A	-		BUINEYR THREAT KORE	de 1340
B	nition of Processes	No Structures Yakses within 2 km	Ballon of slope, wiley bottom	C Vind-slape bermisend, planated willey, <16% daper 10	Nin-Hole (goldman), 3000 Mape	Upper 1/3 of Stope
į	ye of Davidgement	No Shartures Values walkle 2 kgs	Northead blant are.	Printpeter leterface.	Heregy > 1 structure/he	internal of processors
2	Stime of Assessment Anna Street to Values	No Shartares Values anthun 3 tops of	Доли >300 же-500 и 1 10 20	540 cHo 250 pg	Revisions >500 200-500 < 200-en	>500 200-500
600	/#fuel nub total is > 21.	200	- W. C.	i 12 25 Fir plane versan herelefac	1 12 75	
bo S	re-sea not use to 25. Nectoral component only (f Wildlin Ove IS > 95 For untreated polygons.	e litreat	jas		WHEN THE THREAT SCORE	7295
-	School our Threat Class &	hech applicable dassi		We diam't list, - 1		14/
2/8	0-40	- 10 - 11 STAIN		Lev 0-1	nterface Throat Class (ktiech applicable dans)
ŧ	41-95			Nodruste (4-)		
	#4-140 📈			Hage 37-1	300 <u> </u>	
	>149				. .	





Photo 92-1 @ 315 degrees

	ILDLAND URBAN INT		^ * ·	-/ -		e-treatment X Post-tre
Pla	11.7	Community	Coty J	Kanton	0	
55	6220L/) (1/966	Geographic	Location/Street Name:	Summe	De Just	
at	1/26/30/1	GPS/UTM:	NSI 34	199 (1)	10 V	36
h	tos: N + 4	Land Owner	rship: 🛮 (rown 📗 P	Private	(specify)	
10	Paris Commence of the Commence	12	1206	¥ 1	A Page 1	
III.	Fuel	A	T 8		D	
1	Duff Depth and Maisture Regime (cm)	1-<2	Dry Zonal Wet	5-<10 Dry Zonal Wet 10 6 2	10-20 Dry Zonal Wet 12 8 4	>20 Ory Zonal Wet 15 10 5
2	Surface Fuels Continuity (% cover)	<20 0	20 -40 2	41-60	61–80 4	3
3	Vegetation Fuel Composition	Moss, Herbs, Irrigated Crops, Low Flammability Weeds 1	Herbs, Deciduous Shrubs 2	Lichen, Conifer Shrubs 3	Pinegrass, Juniper 4	Sagebrush, Bunchgrass, Antelope Brush, Scorch Broom
4	Fine Woody Debris Continuity (<=7cm) (% cover)	< Grage	Scattered, < 10 coverage 5	10-25 coverage 7	>25 coverage, < 10 (m deep 10	>25 coverage, > 10 cm deep 15
5	Large Woody Debris Continuity (>7cm) (% cover)	- Consu	Scattered, <10 coverage 2	10-25 coverage 5	> 25 coverage, not elevated 7	>25 coverage, partially elevated 10
7	Live and Dead Coniferous Crown Closure (%)	>8046740%	20-40	41-60 10	61–80 15	>80 10
	Crown Closure (%) Live and Dead Conifer Crown	coniferous crown closure 5+ or \$2000 onifer	61-80	41-60	20-40	<20 5
9	Base Height (m)	crown dostre	3-5	2-<3	1-<2 10	<1 15
	Live and Dead Suppressed and Understorey Conifers (stems/ha)	2	501-1000	1001-200	2001-4000 20	>4000 30
0	Forest Health (% of document and co-dominant stems)	Standing Dead and Partly Down < 5 or 20 structs/ha	Standing Dead and Partly Down 5-25 5	Standing Dead and Partly Down >25-50 10	Standing Dead and Partly Down >50 - 75 20	Standing Dead and Partly Down >75 30
1	Continuous Forest/Stash Cover within 2km (%)	0-20 0	3	41-60 5	61-80	>80 10
	Weather	A .			Sub Tota	
	Biogeochmatic Zone	AT, Irrigated	CWH, CDF, MH Dry Zonal Wet 5 3 1	ICH, SBS, ESSF Dry Zonal Wet 10 7 3	IDF, MS, S&PS, CWH ds1 & ds2 BWBS, SWB — Dry Zonal Wel 15 10 5	PP, BG
	Historical Wildfire Occurrence (by WMB Fire Zone)	G5, R1, R2, G6, V5, R9, V9, V3, R5, R8, V7	G3, G8, R3, R4, V6, G1, G9, V8	G7, C5, G4, C4, V1, C1, N6	K1, K5, K3, C2, C3, N5, K6, N4, K7, N2	NZ_352. N1
100					Sub Tota	30 /30
_	Topography	A	В	C	D	
	Aspects (>15% slepe)	Charty	East 5	<16% slope all aspects 10	West 12	South 15
	Stape (%)	<16 1	16-29 and max score for Harth slopes	30-44 10	45-54 12	>55 15
	Terrain	Flat 1	Rolling 3	Sloped terrain, minor low lever draws	Consistent slope, deep draws or shallow gullies 7	Consistent slope, deep gullies 10
8 8 8	Landscape/Topographic Limitations to Wilatire Spread	< 5 ha isolated forest land 1	North and/or east aspects dominate, wildfire spread restricted from South approximent	Mountainous terrain, broken topography, regular aspect and slope changes, multiple restrictions to wildfire spread large water bodies 5	Rolling terrain, minor water bodies, minimal aspect and slope changes, minor restrictions to wildfire spread 10	Continuous, consistent topography No restriction to wildfire spread 15
JEL	, WEATHER AND TOPOG	RAPHY		WILDFIRE B	Sub Total EHAVIOUR THREAT SCORE	77/240**
	Structural	A		С	D	E
100000	Position of Structure/ Community on Slope	No Structures Values within 2 km O	Bottom of slope, valley bottom 5	Mid-slope benchland, elevated valley, < 16% slope 10	Mid-slope continuous,	Upper 1/3 of Slope 15
_	Type of Development	No Structures Values within 2 km 0	Perimeter Interface, no inclusions	Perimeter Interface, with inclusions 5	Intermix > 1 structure/ha 8	Intermix < 1 structure/ha Infrastructure 10
	esition of Assessment Area Relative to Values	No Structures Values within 2 km 0	Above >500 200-500 <200 m 1 10 20	Sidehill >500 200-500 <200 m 1 12 25	Flat/Rolling >500 200-500 < 200 m i 1 12 25	>500 209-500 <201 m
to ur!	ly if Fuel sub total is>29. Structural component only if Wildfir core is >95 for untreated polygons. Behaviour Threat Class (cl		<u> </u>		WILDFIRE THREAT SCORE	155 /295
te	0-40 41-95 96-149 >149	oppiicadfé Cláss)		Wildland Urban Ir low 0-13 Moderate 14-21 High 27-31	• 🗒	check applicable class)



M

City of Kamloops – Wildfire Threat Assessment Picture – Plot 93

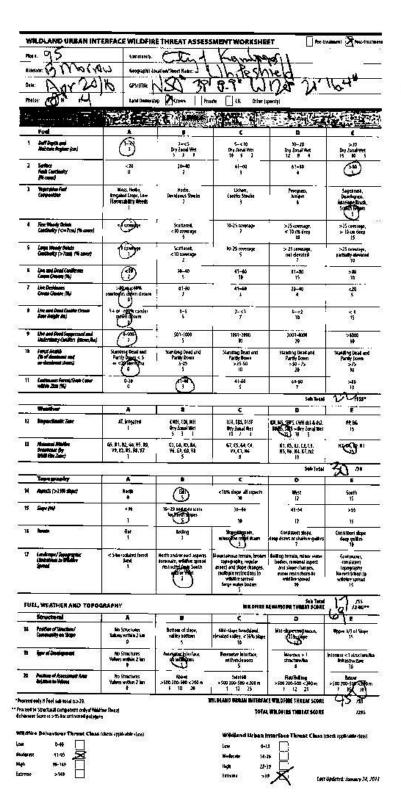


Photo 93-1 @ 210 degrees

гипин Прин	ET Pre-1	MENT WORKSHE	C A			harden.
	9 2	Kanlo	Cottant 1	Construity.	. 94	141
	V	ileda	KIRANSKANI KARA	€ Geographic L	- Q 11 press	wes
43	MR JA	[49 L]	N30 39	C KANE	Axy 201	LTM:
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gy ya e e.		2000	अक्ष्माक	r		
diam'r to			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	, S, 145	TO 100 100 100 100 100 100 100 100 100 10	3.63
E	-	- S	<u> </u>	*		_
5-26 Dry ZoAni Med 15 10 5	TO-20 Bry Cond Wel By J d	5—< 10 Ony Jonal Met ; 10 6 2	2-c5 Dry Zonal Het 5 3 1	i 🖰	Auf Depth and Makeur Regime (cm)	1
ෟ	61-40 6	f1—10 }	26-40	<.50	Series Serie Contracty (Theoret)	2
Sagetrush, Januthyrase, Antrikon Sreat, Septin Britan	Anequae Imper	Liden Confer Skrubs 3	Beddues Shrufts	Mona Serbs, Initiated Coops, Low Harmanhalty Monds	Physiological Companion	
> /3 coverage, > 10 cm seep >5	> 15 coverage. < 10 cm deep	10-25 c om/age 3	Sufficied. e 16 contage 5	- Company	ion Root Belos Cantonity (<=/art (fiction)	1
>35 coverage, partially elevate	> 15 coverage, act devalue	10-25 certal pt	Scattered_ <10 casesage	500	Large Photo Debris Gabbanky (> Kardy (% cares)	5
> 36 10	61— 36 85	41-60 10	30-40 5	(D)	Unr and Book Confirmes Creen Cosum (K)	
€2 9 3	70-44	11-60	614b 2	conteres des cinare	the Business Court Classes (%)	_
{ 15 15	1-<1	1-c3	3-5	S+ or Commer	Here and Breed Country Corner Searc Malgian (ex)	
30	7081-4080 70	1001-2000	581-1980 5	(3)	The sail Deal Supremed and Deductions Control (Supreme)	
Handing Dead an Partly Down >75 36	Standing Dead and Pacify Open >56 - 35 26	Standing Dead and Partly Bown > 25-50 80	Han Rag Deed and Parily Bosen. 3-25 5	Standing Dead and Partly Depen < 5 or < 20 maghuling	Family Realth (% of democratic and or-democratic Realth)	•
) NO	63- b 0	3	+ 21-46 —	0.50	Continues French Stack Congradion Zion (Ni)	•
UR.	San Belaj	5 10 00 X71				
E	D	<u> </u>			Weather	0. 1
IS IS	EMPONET - Bry (on all the)	Mith, SBA, 6566 Dry Zomail Wel 10 7 J	CWH, CDE MH bry (one) Mg) 5 3 1	il injured	iliyadasii bar	
NS. P. M.	81, 85, 43, 62, 63, 85, 86, 86, 87, 82 10	67,63,64,64. 91,61,86	G3, G8, R5, B4, W6, 61, 62, VJ S	45, 81, R2, 44, V5, R9, V9, V3, 15, R8, T7	Michaelma Milatina December By Brill Fibr June)	
300	Sub Total	21 2		- 64	125	
1	D	C		۸	Topography	8.
Soeth 15	4	c 16% dope all aspects	East 5	Rorah P	Appets (> 19% alles)	
>56	10-34 	30-44	16-70 and gran scare for Humbalopes	<#	Sign (N)	
15	12	ы		1		
Consistent dope. doop galles	Consistent slape, desp durns er skallere gelites ?	State Section	Calling	위 와 1	leak .	
Continuous, cooresteral inpography the restriction to writing spread IS	Rolling tell sin, minor water bodies, minoral aspect and slape changen, menor restrictions to wild fee spread to	Meantame es ferrale, broken hopegraphy, regular wared and slope changes, multiple resektions to whether spread large wares bodies	Morth analysi east aspects deminate, midflet specari restricted from South and or World	< 5 Ne rudabed leress land l	Landrague Papagagain Landrague en Waglie Sprinsi	
15 24	SAGE TANKS SHAVIOUR THREAT SCHOOL	MIDSHE		AAPHY	L WEATHER AND TOPOG	VE L
TM F	D	·c ·			Structural	,
Upper 1/8 of Slope 15	Man depet Confessors.	Nid-stope benefitand, dentified talley, < 16% stope to	Boxness of slepe, *alley belform	No Structures Yaheed within 2 has #	Addition of Structure/ Community on Supe	,
hierau c latarion infrastructure M	hiernia > 1 saectarenta	Pensisten Infections, with indusers	Parmetechierisce,	He Speciares Values within 2 days	Not of Directorists	i (
-540 Helen	#6474ching >560300-560 < 200 m 1 17 25	560000 >560 201-500 e700-ss 1 12 25	Above >540-200-500 c200 m 1 10 20	He Structures Values within 3 km	Pasting of Assessment Area Believes to Tables	
	E WILDPINE THREAT SCORE	UP OF VIEW IN STREET BILLY HAVE	LC S	re Thecat	only if Field sub-total to >29. a Structural composere, unity of Wildle Scale is >95 for a national of polygons	ol to
фей. фринава фак	Intifect Throat Class is			Prock applicable plans)	Baharlaut Threat Class	fer.
	· —	Low 0-1;			9-90 9-95	Mer.
	· 😐	Moderate 16-2			96-149 D	
	;	Migh 27-9 Emperu >8				



Photo 94-1 @ 315 degrees





City of Kamloops – Wildfire Threat Assessment Picture – Plot 95



Photo 95-1 @ 180 degrees

_	ALPLAND URBAN RIT	rater ampli	DE ITHUEALI MASE	SOMENI WORKSHI	EE3 64	Charlement A Post-life
n,	<u> </u>	(onning	التكتاء	Kam	Seves.	34 1077
ш	en BMm	AU Georgia	LOCKHOON SHOW HANDS	la la la ma	ton	20.0
	A Vall	GEATH:	NS6° 391	18 34	1120 2	y 508"
	m(y h st	Lead Dwne			NOT TO SECURE AND ADDRESS OF THE PARTY OF TH	2 24
			STATE OF THE STATE		(specialy)	
				Sar La		
_	Fool				D	
1	Dylf Dayes and Motter Region (cm)		2—<5 Disp Const Wet	5-c of Day Fornal Wes 10 6 3	16—30 Dry Zosal Wes 12 3 4	370 Dry fortal Then 13 M 5
2	Sandage Fresh Completelly (Ni comp)	¢20	10-40	41-60 3	61-60	٧
,	Prophotolog Fact Compaction	Mess, Herby, Impacted Crops, Low Rathernability Meeds	Heris, Developed Shruls 2	Comiter Shrutus 3	Program, fullpet	Septemb. Lundagues, Antelogo Brysh. Settah Troops
	Procedurate (Contract)	C. Course	Scattered < 10 coverage 5	10-25 canal ego	> 25 commage. < 10 cm steep 16	>25 coverage, > 10 cm evep 15
S	(arge Weeky Public Continuity (> Juliu) (% count)	- Allen	Sultimed, <10 townage	18-25 ca eerage 5	> 25 coverage. nat deniced	>35 coverage, purbably elevated 10
5	thre east Desid Constitues Coron George (Ni)	3	20-40	41–40 10	61-80	S#
2000	Line Desidences Green Channe (No)	>Ha<#6	61-80	41-64	25-40 4	<a1 .<="" td=""></a1>
	the and there could Cross Since Height this	5+ or «)Distraction strate () ()	9-5 5	2-<1	1-02	د ا ۳5
	Live and Dead Supposered and Orderstony Copilles (Manuality)	- €	501-1000	1091-2004 10	2101-1400	>4046
+	Sant House	Sensitive first and	Standing Dead and	Standard Dead any	30 Mendenotherd and	10 500000 CmJ ma
	(% of depole per and co-deminate decor)	Fartly Day 25	Fartly Dovets 5-23 5	Partly Down >25-50 M	Handing Dead and Partly Deam >50-15 20	Standing Great and Farity Descripts > 25 30
	Continuents Furnish Stack Const within July (56)	g-30	[(F)	M-46	61- 40 7	>46 11
	- mi		2000 - C 2000 00 00 00 00 00 00 00 00 00 00 00 0		SAP THE	20 11550
	Wasther	_ ^ _		c	D	E
	Birgoodmak Zure	AT, Imigalest 1	Carry (DF, MH Dry Zonel Veet 5 3 1	KHL SBS. ESSF Dry James Meet 10 / 3	EDI, MS, SEPS, (MHI to 1 & ds.), FRETE, SEPS - Dry Janual Rept La 5	. Fr. 26 1
	Hannes Walles Secures Sy 1996 For Leas)	GS, RF, R2, GG, VS, R5, VFU-93, R5, R8, V7	63, 64, 63, 84, 96, 63, 69, 110 5	67, ES, 64, (4, Y1, C1, M6	KP. 85, K3, C2, C0, H5, K4, M4, 87, H2 16	HJ, EQ. 20, H1
			· ·	NO 12 42 7	Sub Bet al	204
	Tepography			C	D	- F
	Aspects (> 15% sieps)	(5)	LINE 5	< 10% stope all aspects.	W+51 12	Seeth 15
	Super (H4)	eM 1	16-29 and man stere for flores slopes		45-54 1/	>55 IS
Š	Facquis	R# 1	Tatling 1	Store South Court	Consistent slape, deep draws or shallow guillet	Consistent slope.
	Emokaper japangshir Embanas in Hilliadis Spread	< 5 ha indigined longst land	North antifor nam aspects destinate, relative speed restacted loss South aspects 100	International interlation of the control of the con	Polling terrain, minor ware, bodes, eriornal aspect and slope (langes, minor peroximate to writte spread	Continuous, consistent tempography No restriction to middles spraph
B	L, WEATHER AND TOPOG	RAPHY		TAKES!	Sen fetal LELITADOS TRANSPORTAÇORS	(3 /35
_	Structural	A .		<	p p	6 1 1740m
	Fapities of Structure/ Community on Stage	No Sinchines Natives within 2 km	Bottlers of slope, walley socran	Mid-slape bearbland, cleanord valley, < MPs slape 10	Mid-Approved Manny (2150 Mag)	Oppos V3 of Slape IS
	Spe of Development	No Stractures Values within 2 day	Asserter Intelliger	Ferreter interface, with wide term	historie Suchrofie	hieran <1 sinchesik fritasinetare
	Architect of Assertment Arque Enterting to Values	No Structures Values within 2 los- 0	Above >504-204-500 < 100 m 1 14 10	\$150000 >550-200-500-2000 m 1 17 25	Plat/Noting >560 260-560 < 256 m 1 12 25	14 Letau (200)
	ndy at Rawl sub cotal in > 29.		1	NIEDLAND HUUDH INTERPAC	1 126 106 (1969)	C/3 /55
	Sharteral component only if Wildlin Score H. 595 for extrested polygons.	re Theogr			WILMPIOE TRIPEAT SCORE	/tes
	Phinesour Threat Claps & OH	hrch applicable data[Wildland Orban II low 6-11 Moderne 14-2	=	alect applicable class)

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City of Kamloops – Wildfire Threat Assessment Picture – Plot 96

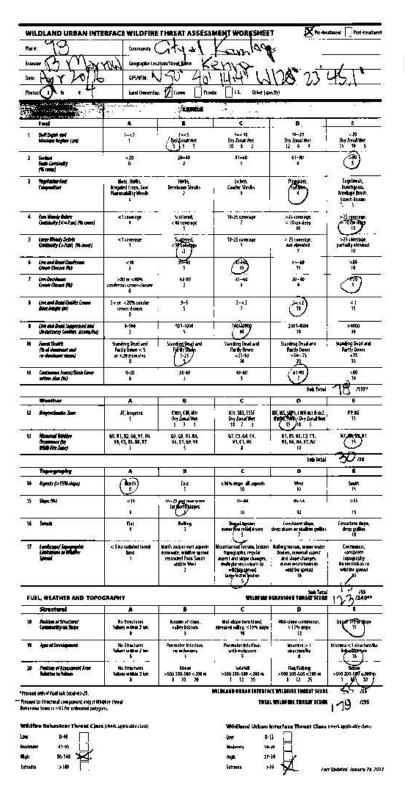


Photo 96-1 @ 90 degrees

ģØ	ILDLAND URBAN INT	1	2+ 1	17 H		brestment Andrews
Mo	11. (4)	(company	and of	Fambo	25	
191	······································	Geographic	ecation/street Name }	Kenno		u
	· Day Will	€P¥UI#	11.50 48	5" 11 12	\$ 2415	つ" -
b	HEC (7) 4 14	Land Descrip	he Crown Pr	une IR Other	opeuly)	366
Ē		Steel Francis		Hate the Control	Name and State	CALL SHOW
Σ:	Fuel	第二世 马耳克克				-115 ADE
1	NE ROOM	- 1	la-ci	e e		
2	Molistair Region (cm)	- 	Dry Espai Mei S 3 I	S—c 10 Dry Esrual Wer 16 6 2	03-20 Dry Zonal Wet 12 0 4	Day Zonal Weg 15 NO 5
2	Surface Forth Continetty (% areas)	0 0	10 -40	1 41-60	67-10	3
1	Proprietar Ford Composition	Moss, Herbs, Imigated Cross, Low Planerpublity Micels	Heric, Secularin Structs	Lichen. Contine Shruhu	Program.	Segebreit, Bandsgrep, Amelier Boch, Soch Brown
1	Fine Booky Delets Contractly (<=First (N curs))	<1 concessor	Scattered, <10 coverage 5	10-25 coverage	235 militaryon. C Marin Sprint	> 25 coverage. > 14 cm deep
\$	Large Woody Delaids Continuity (> Fam) (% cover)	< Lovernge	Second .	10-25 comozge S	> 15 coverage tot eleptrol	>25 coverage, partially derived.
7	Live and Band Continues Crosts Classes (Fig.)	<90 <	10-40	11-60	61-80 15	3 ta
7	Over Occidence County (SQ)	>10 or <47% conferrer come closure 0	51-46 2	61-60 3	20-44	(*)
•	Directed Sout Contier Comm Base Meight Seri	5+ or < 2010 confer constructions 0	3-5	}-c5 7	1-<2	(3)
C	Description Conference and Districtions Conference (States Aut)	D-586	541-1059 5	700F2900	2001-4044 20	>4004 30
ò	Force lingits (16 of deciman and co-deciman regul	Standing bead and Parily Down < 5 or <20 ptempts	State on Dead and Parties	Standing Dead and Parely Breas >25-50	Standing Dead and Parity Down >34 - 75	Statisting Dead and Partly Dawn >75
1	Continues Parcel/Stack Coor within Stac (%)	D-26 0	n 4	61-6d	61-40	34. 346 10
	AND THE STREET		200	<u> </u>	Sub Total	200
	Wester			< .		[, Lan -
1	Megacinanic Zuar	AT, Hrigates	CWH, CJF, MH Dry Zonal Yeer 5 3 1	ICH, SBS, ESSE Dry Zorud Wes 10 7 3	EX NS. 5975, OWN as 1 & dra., 67075, 5941 — Dry Zonal West 15 10 5	Œ
U	Alaberty Station Commune for 1200 Fee Arts	GS, Att. R2, GB, VS, E9, VS, Y3, R5, R8, V2	63. GB. RJ. Na. 95.61. GB. VB 5	ध्य,ध्य,ध्य,ध्य भा,द्वा,₩	KV. US, N3, C2, C3, N5, N8, M4, N7, N3 10	10.14CD.101
	219 - 53 20-00-00-00-00-00-00-00-00-00-00-00-00-0			**************************************	Sois Total	2000
- 15	Topography	_ ^ _		c	0	1
•	Aspects (> 15% sinps)	(o	Face 5	< 16% sloge all aspects 10	Well LL	Sount 15
5	Shape (Nb)		16-29 and map store	36-44	65-54	>55
_			Manage Contract	10	U.	IS
	James .	Rec 1	Rolling 3	Stoped terrals, rains and fell of thems	Canochese slepe, deep disets on shallow guillers ?	Concessions single, deep quilles 10
•	Landsuper Sprographic Little area to Mindre Spend	< \$ Au regulated forest tame 1	Morth and/or out raspects dominate, willding spread restricted from Seach and/or West	Neumataised female, surject basequarite, cogolise expect and stage changes, make pie resultantes to wild free provid large fill also basiles.	Selfing terrain, minor souter bodes, minimal aspert and dept shanges, more selfin lappy by solding special 16	Candinuous, consistent topography Horisin Clean to wild fire spread 85
VI	L WIATHER AND TOPOS	RAPHY			Seb Total Seb Total Sebusto Tables of Contract	AA 2000
	Structural	A		C	O D	1710000
ı	Function of Strangery Continuously on Steps	Mo Sinucrumer Values writing 2 km D	Rathers of stage, vidity believe	Mad-steps beny heard allowated spiller, a light steps	Aint-slape continuous, > 15% glope	Upper 1/3 of Mape 15
	190 of Development	No Strectures Values withou 2 lan	Penting and late.	Penneter Reerlace.	frienc > 1 structuralis	केन्द्रसम्बद्धाः स्टब्स् विकासम्बद्धाः
•	Andrea of Assessment Area Belleton in Yellow	No Shartiares Valets within 2 km	>500 700-500 (270 m)	>504-200-600 -2200 m	9 44/4-ling > 590 240-594 - 201 m 1 12 25	\$21000 >500-250-450 <220 m 1 _ 15 _ 50
•4	poly if feel rule total in 524.			VILOLANO UUBAR IRTEUFAC	500 300 755	757 786
04	o Shucturel component only if Wildle Score is >95 for unbested polygons	te Threat			WITH HE LINES WORF	7) IM
A	e Behaviour Throat Class is	heck applicable clam;		Widtend Urben I	eterfore threat Class (theek assessment of our
	0-40			los de		and the same court?
	H AT					
sb:	9-10			Nedoule 14-)	* ፲	



Photo 97-1 @ 200 degrees

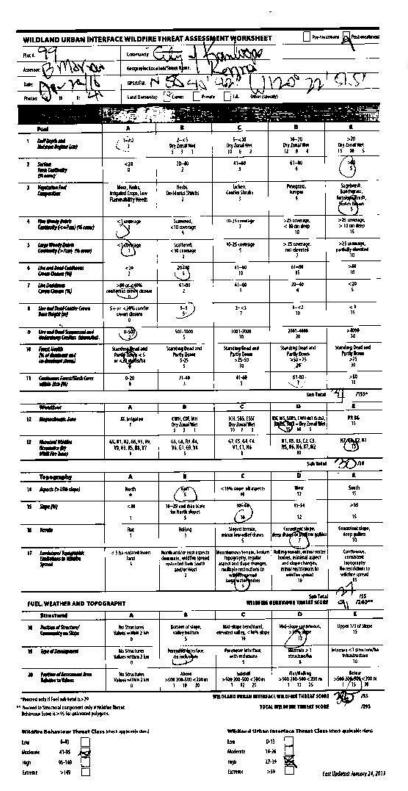




 $City\ of\ Kamloops-Wildfire\ Threat\ Assessment\ Picture-Plot\ 98$



Photo 98-1 @ 45 degrees



99

 $City\ of\ Kamloops-Wildfire\ Threat\ Assessment\ Picture-Plot\ 99$



Photo 99-1 @ 80 degrees

Appendix C Fire Weather Data

Year	Danger Class	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total days
20 AFTON														
Average	Extreme	0.00	0.00	0.00	0.10	2.00	2.00	8.20	6.30	1.30	0.10	0.10	0.00	20.10
Average	High	0.00	0.00	0.00	0.80	9.40	7.20	12.80	17.90	11.20	4.00	0.10	0.00	63.40
Average	Moderate	0.50	0.00	0.40	10.50	10.10	8.60	5.40	4.00	7.00	8.80	3.70	0.30	59.30
	Extreme					1	3	14	8					26
2006	High				3	10	5	15	17	8				58
	Moderate				13	13	11		5	2				44
	Extreme					10	5	9	3	1				28
2007	High				1	17	11	14	21	13				77
	Moderate				17	4	9	4	6	5	1	1		47
	Extreme						3	16	11	2				32
2008	High				2	10	12	14	18	23	5			84
	Moderate				16	17	10	1	2	5	20	6		77
	Extreme					1	9	16	18	1				45
2009	High					8	17	10	13	15	14			77
	Moderate				9	12	4	3		10	3	7		48
	Extreme							3	2					5
2010	High					6	1	17	19	1				44
	Moderate			1	14	11	8	7	6	3	7	1		58
	Extreme							5	2	5		1		13
2011	High					2	2	6	28	23	4	1		66
	Moderate				8	14	13	8	1	2	25	21	3	95
	Extreme					4		1	2	1	1			9
2012	High					14	4	4	19	18	17			76
	Moderate	5		3	8	10	3	11	8	8	7			63
	Extreme					2		5	5					12
2013	High					6		13	18	6				43
	Moderate				2	12	4	12	6	15	1			52
	Extreme							7	6					13
2014	High						8	14	6					28
	Moderate				4		12	5	3	5	6			35
	Extreme				1	2		6	6	3				18
2015	High				2	21	12	21	20	5				81
	Moderate				14	8	12	3	3	15	18	1		74

Year	Danger Class	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total days
20 LEIGHTON LAKE														
Average	Extreme	0.00	0.00	0.00	0.00	0.00	0.20	0.80	2.70	1.80	0.10	0.00	0.00	5.60
Average	High	0.00	0.00	0.00	0.00	1.80	1.70	10.20	15.00	8.30	3.00	0.10	0.00	40.10
Average	Moderate	0.00	0.00	0.00	1.30	7.20	5.30	13.00	8.50	8.40	6.90	2.60	0.00	53.20
	Extreme								4	1				5
2006	High							18	12					30
	Moderate				7	9	4	11	10	7				48
	Extreme							3						3
2007	High					4		15	16	6				41
	Moderate					16	10	7	10	10				53
	Extreme								3	3				6
2008	High						2	12	17	15	3			49
	Moderate				2	5	6	13	10	9	7			52
	Extreme							2	6	2				10
2009	High						5	12	25	8	2			52
	Moderate					3	10	12		13	13			51
	Extreme													0
2010	High							2	6					8
	Moderate					2	5	17	13	1	2	3		43
	Extreme								1	9				10
2011	High							2	13	17	6	1		39
	Moderate						4	14	14	4	16	21		73
	Extreme								2	2	1			5
2012	High					4	2	1	18	18	18			61
	Moderate				1	11	2	17	8	7	2			48
	Extreme								3					3
2013	High					3		16	17	9				45
	Moderate					11		14	11	10				46
	Extreme							3	2					5
2014	High							8	10					18
	Moderate							15	5	10	10			40
	Extreme						2		6	1				9
2015	High					7	8	16	16	10	1			58
	Moderate				3	15	12	10	4	13	19	2		78

Year	Danger Class	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total days
20 PASKA LAKE														
Average	Extreme	0.00	0.00	0.00	0.00	0.00	0.10	0.10	1.40	1.30	0.00	0.00	0.00	2.90
Average	High	0.00	0.00	0.00	0.00	0.00	0.40	6.60	10.10	4.40	1.10	0.00	0.00	22.60
Average	Moderate	0.00	0.00	0.00	0.00	2.10	3.10	12.50	10.80	8.20	4.90	0.10	0.00	41.70
	Extreme								2					2
2006	High							10	13					23
	Moderate						4	16	8	7	1			36
	Extreme													0
2007	High							4	2					6
	Moderate					6	3	16	12	6				43
	Extreme								2	5				7
2008	High							13	20	7	2			42
	Moderate						3	11	7	11	2			34
	Extreme								3	2				5
2009	High							9	20	12	2			43
	Moderate						9	16	8	8	14			55
	Extreme													0
2010	High													0
	Moderate							5	17					22
	Extreme									4				4
2011	High								5	17				22
	Moderate							5	18	9	9	1		42
	Extreme									2				2
2012	High								5	6	7			18
	Moderate					5		11	15	18	14			63
	Extreme								1					1
2013	High							9	17	2				28
	Moderate						1	16	9	12	2			40
	Extreme													0
2014	High							6	12					18
	Moderate							16	3	7	4			30
	Extreme						1	1	6					8
2015	High						4	15	7					26
	Moderate					10	11	13	11	4	3			52

Year	Danger Class	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total days
20 SPARKS LAKE														
Average	Extreme	0.00	0.00	0.00	0.00	0.00	0.30	1.60	2.00	0.40	0.00	0.00	0.00	4.30
Average	High	0.00	0.00	0.00	0.00	3.50	2.50	12.20	15.00	8.50	2.20	0.00	0.00	43.90
Average	Moderate	0.00	0.00	0.00	1.40	8.40	5.80	9.60	10.20	6.90	3.00	0.60	0.00	45.90
	Extreme							3	3					6
2006	High					2	3	17	15	7				44
	Moderate				4	11	4	9	11	2				41
	Extreme						1	3						4
2007	High					17	2	17	14	4				54
	Moderate				2	9	9	5	10	6				41
	Extreme							1	1					2
2008	High						3	15	12	16	3			49
	Moderate				1	4	9	10	16	13	8	3		64
	Extreme						2	2	6					10
2009	High					1	11	20	12	16	1			61
	Moderate					10	10	5	11	10	14			60
	Extreme													0
2010	High							4	8					12
	Moderate				7	9	1	17	10	1	1	1		47
	Extreme									3				3
2011	High							3	15	16				34
	Moderate					5	2	5	16	10	5	2		45
	Extreme								4	1				5
2012	High							2	21	24	18			65
	Moderate					12	3	14	6	3	1			39
	Extreme							1						1
2013	High					5		13	26	2				46
	Moderate					12		12	5	6				35
	Extreme							3	1					4
2014	High							14	13					27
	Moderate						6	9	9	13	1			38
	Extreme							3	5					8
2015	High					10	6	17	14					47
	Moderate					12	14	10	8	5				49

Appendix D City of Kamloops Overview Map 1

Appendix E City of Kamloops Wildfire Threat Map 2

Appendix F City of Kamloops PSTA, Fire History, Critical Infrastructure Map 3

Appendix G City of Kamloops PSTA Fuel Types Map 4

Appendix H City of Kamloops CWPP Fuel Types Map 5