Wildfire Threat Assessment Worksheet - Fuel Assessment (Site Level) **Plot #** MILLSTREAM-1

Location	Shields Park	Date 2/21/25	Assessor/ Professional Designation J. Sunderwald
Coordinates (Lat/Long – Degrees/Decimal minutes): 49 21.225386 , -123 9.423804			FIT
Crown Species Composition (species %)	Hw95Fd05		
Ladder Fuel Species Composition (species %)	Hw100(Cw)		

	Component/ Sub Component	Levels/ Classes				
	Forest Floor and Organic Layer					
1	Depth of Organic layer (cm)	1–<2 ○ 1	2–<5 ● 3	5–<10 ○ 5	10–20 ○ 3	>20 ○ 2
	Surface and Ladder Fuel (0.1 – 3.0 meters in height)					
2	Surface fuel composition	Moss, Herbs and Deciduous Shrubs ○ 4	Lichen, Conifer Shrubs ○ 6	Dead fines (Leaves, Needles or fine branch material) fuel (<1 cm) ● 8	Pinegrass ○ 10	Sagebrush, Bunchgrass, Juniper Scotch broom ○ 15
3	Dead and Down material Continuity (<7cm)	Absent ○ 0	Scattered <10 coverage ○ 4	10 -25% coverage ● 8	26-50% coverage ○ 12	>50% Coverage ○ 15
4	Ladder fuel composition	Deciduous ○ 0	Mixwood ○ 5	Other conifer ● 8	Elevated dead fuel ○ 10	Spruce/ Fir/ Pine ○ 15
5	Ladder fuel horizontal continuity	Absent ○ 0	Sparse <10% coverage ○ 2	Scattered 10 – 39% coverage ● 8	Patchy 40-60% coverage ○ 10	Uniform >60% coverage ○ 15
6	Stem/ha (understory)[3]	<500 ○ 2	501-800 ○ 4	801-1200 ○ 6	1201-1500 ● 8	>1500 ○ 10
	Stand Structure and Composition (Dominant and Co- Dominate stems)					
7	Overstory Composition/ CBH (Crown Base Height)	Deciduous (< 25% conifer) ○ 0	Mixwood (% Conifer) 25% ○ 0 50% ○ 2 75% ○ 3	Conifer with high CBH (>10m) ● 3	Conifer with moderate CBH (5-9M) ○ 4	Conifer with low CBH (<4m) ○ 5
8	Crown Closure	< 20% ○ 0	20 -40% (Or Deciduous) ○ 1	41-60% ○ 2	61-80% ○ 5	>80% ● 4
9	Fuel Strata Gap[4] (m)		> 10 ○ 0	6-9 ● 1	3-6 ○ 3	<3 ○ 5
10	Stems/ha live/ grn dom & codom (overstory)	<400 ○ 0	401-600 ○ 2	601-900 ● 3	901-1 200 ○ 4	>1 200 ○ 5
11	Dead and Dying (% of dominant and co-dominant stems)		Standing Dead/ Partial down <20% ● 2	Standing Dead/ Partial down 21-50% ○ 5	Standing Dead/ Partial down 51- 75% ○ 8	Standing Dead/ Partial down >75% ○ 10

Ecoprovince	Threat Assessment	WTA Total
Coast and Mountains, Georgia Depression (0/42/58/70)	Moderate	56

Comments:

Shields Park, within the Millstream PTU, just upslope of access road and new builds. Two layer western hemlock (Hw) second growth stand with considerable Hw regeneration. Surface fuel loading is of fine woody debris is low and scattered on average, though there is a high continuity of dead fines throughout.

Healthy forest and good access. 5+ meter CBH on overstory.

Previous dead Hw removal adjacent to PTU area resulted in trees cut down in pieces with all CWD material left on site. Fine woody debris was chipped. If treating this area, there are likely opportunities for lopping and scattering.
**QA'd by Q. Schmidt, RPF

Q. Schmidt

[3] Understory is considered ladder and suppressed stems in this category (distinct break between these stems and overstory)
[4] Fuel Strata Gap – Distance from top of ladder fuel to live crown base height of overstory

PROJECT: District of West Vancouver CWRP

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British Columbia Wildfire Service - Photo Guide

SITE INFORMATION Date Sampled: 2/21/25

Plot # MILLSTREAM-1

General Location: Shields Park

Coordinates: 49 21.225386 , -123 9.423804

FBP Fuel Type: C-5

Slope (%): 20

Aspect (deg.): 144

Elevation (m): 370

Canopy Closure (%): 85

Average Forest Floor Depth (cm): 2.5

SURFACE FUELS:

Photo comment:

High continuity of dead fines but very low volume overall. Mix of moss, herbs, and shrubs.

Other (specif

LADDER FUELS

Other (specify)

Photo Comment:

Pockets of Hw regeneration (L3 and L4). Discontinuous across stand. High fuel strata gap.

CROWN FUELS:

Other (specif

Photo Comment:

High crown closure, dense second growth stand. Photo removed to reduce file size.