PORCUPINE
WOOD PRODUCTS

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Biodiversity Analysis

FL A30171 CP 416 – Bulmer Face

Cooper Creek Cedar Ltd is proposing a cutting permit (CP 416) in the Bulmer Face area. The Kootenay Boundary Higher Level Plan Order (2002) established legal requirements for Mature + Old seral stage targets with specific requirements by Landscape Unit - BEC/NDT type pairings and within connectivity corridor.

The proposed CP 416 falls within the following Landcape Unit / BEC pairings, with the associated targets as per KBHLPO Objective 2:

Landscape Unit /BEC Pairing	Natural Disturbance Type	Biodiversity Emphasis Option	Mature Target %	Mature (yrs)	Old Target %	Old (yrs)
K16 / ICHdw	3	L	N/A	101+	4.7	141+
K16 / ICHmw2	2	L	N/A	101+	3.0	251+

Mature + Old

LU K16/ ICHmw2 and LU K16/ ICHdw do not have Mature + Old seral forest targets and therefore no targets in Connectivity Corridor either.

Mature + Old analysis is not applicable to the unit combinations associated with CP 416.

Old

Cooper Creek Cedar's FSP (2018 to 2023 Forest Stewardship Plan for Cooper Creek Cedar Ltd – Forest Licence A30171) Section 3.5.3 states Old Forest requirements will be met through spatially, non-legal Old Growth Management Areas (OGMA's) (Method 1). This applies to the proposed CP 416.

In May 2019 the District distributed a letter identifying Landscape Unit/BEC pairings falling short of meeting Old Forest targets. The LU/BEC pairings in this analysis are not on that list. The guidance also suggested licensees analyze Old Forest cover (Method 2) to be cognizant of seral stage distribution prior to logging Old forest. There is planned harvest of Old in LU K16/ ICHdw and no planned harvest of Old in LU K16 ICHmw2.

There is no planned harvest of OGMA in CP 416.

SUMMARY:

Analysis shows **targets for Old will be met** after harvesting of CP 416 spatially through non-legal OGMA's in both LU K16/ICHmw2 & K16/ICHdw (Method 1). Analysis shows actual, aspatial **surpluses of Old** in both LU/BEC pairings post harvest (Method 2).

Post – CP 416 Harvest Old Area Calculation LU K16 ICHdw **(in hectares)**:

OGMA as Old (Method 1)

Total Area	Target Area (4.7%)	Actual Area in OGMA	Old Area Surplus	Old Area in Connectivity Corridor
1797.7	85.4	340.4	255.9	184.8

Actual Old (Method 2)

Total Area	Target Area (4.7%)	Total area contributing as Old	Old Area Surplus	Old Area in Connectivity Corridor
1797.7	85.4	216.1	131.6	171.1

Post – CP 416 Harvest Old Area Calculation LU K16 ICHmw2 **(in hectares)**:

OGMA as Old (Method 1)

Total Area	Target Area (3%)	Actual Area in OGMA	Old Area Surplus	Old Area in Connectivity Corridor
8130.0	243.9	2212.3	1968.4	372.6

Actual Old (Method 2)

Total Area	Target Area (3%)	Total area contributing as Old	Old Area Surplus	Old Area in Connectivity Corridor
8130.0	243.9	951.7	707.8	433.2

Source: Selkirk Geospatial Research Centre's Higher Level Plan Order Reporting Suite. Queried January 5, 2022. Data updated annually.

Tom Haukaas, RFT

Post-harvest biodiversity analysis including proposed CP 416. (Hectares)

	PART 2	BA	BB	CA	CB	DA	DB	DC	DD	DE	DF	DG	EA	EB	EC	ED	EE	EF	EG	FA	FB	FC	FD	FE	FF	FG
1	LU: K16 BGC: ICHdw BEO: L NDT: 3	OGMA (as OLD) Method1		MATURE + OLD (OGMA as OLD) Method1		OLD SERAL FOREST Method 2							MATURE + OLD SERAL FOREST Method 2							MATURE SERAL FOREST for info only						
2	Age	All		All		141+							101+							101-140						
3	Target %	4.7		n/a		4.7							n/a													
4	Target Area	84.5		n/a		84.5							n/a													
5	Actual Area (ha)	In OGMA		Total		In OGMA		Out OGMA		Park	Total		In OGMA		Out OGMA		Park	Total		In OGMA		Out OGMA		Park	Total	
6		340.4		1390.2		117.8		97.0		1.3	216.1		301.1		1017.3		32.5	1351.0		183.3		920.4		31.2	1134.9	
7	Connectivity Area (ha)	In	Out	In	Out	In	Out	In	Out	In/Out	In	Out	In	Out	In	Out	In/Out	In	Out	In	Out	In	Out	In/Out	In	Out
8		184.8	155.6	1354.8	35.5	76.3	41.5	93.5	3.5	1.3	171.1	45.0	149.3	151.8	981.9	35.5	32.5	1163.7	187.3	73.0	110.3	888.4	32.0	31.2	992.6	142.3
9	Surplus/Deficit to Target (ha)	255.9		n/a	n/a						131.6							n/a	n/a							

	PART 2	BA	BB	CA	CB	DA	DB	DC	DD	DE	DF	DG	EA	EB	EC	ED	EE	EF	EG	FA	FB	FC	FD	FE	FF	FG
1	LU: K16 BGC: ICHmw2 BEO: L NDT: 2	OGMA (as OLD) Method1		MATURE + OLD (OGMA as OLD) Method1		OLD SERAL FOREST Method 2							MATURE + OLD SERAL FOREST Method 2							MATURE SERAL FOREST for info only						
2	Age	All		All		251+							101+							101-250						
3	Target %	3.0		n/a		3.0							n/a													
4	Target Area	243.9		n/a		243.9							n/a													
5	Actual Area (ha)	In OGMA		Total		In OGMA		Out OGMA		Park	Total		In OGMA		Out OGMA		Park	Total		In OGMA		Out OGMA		Park	Total	
6		2212.3		6077.5		532.4		0.0		419.4	951.7		1794.2		1716.7		2148.	5659.4		1261.9		1716.7		1729.	4707.7	
7	Connectivity Area (ha)	In	Out	In	Out	In	Out	In	Out	In/Out	In	Out	In	Out	In	Out	In/Out	In	Out	In	Out	In	Out	In/Out	In	Out
8		372.6	1839.	5605.2	472.3	13.8	518.6	0.0	0.0	419.4	433.2	518.6	345.8	1448.	1244.	472.3	2148.	3738.8	1920.7	332.1	929.8	1244.	472.3	1729.	3305.	1402.
9	Surplus/Deficit to Target (ha)	1968.4		n/a	n/a						707.8							n/a	n/a							