Cooper Creek Cedar Ltd.

Visual Impact Assessment
CP 409 blocks 8 & 9
Balfour Face

Prepared by:

April 2, 2019

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Cooper Creek Cedar

Visual Impact Assessment – Project Information

CP: 409 (Balfour Face) blocks 8, 9
Proposed Year of Harvest: 2019

Proposed Silviculture System: CC/RES

Type of Proposed Operation: Logging

Block Area ha (no WTRAs):
Block 8: 30.5
Block 9: 6.8

Visual Resource Management	VLI	VSC:	VAC:	EVC:	EVQO:
Block 8: 1.2 ha	90	3	M	PR	PR
Block 8: 29.3 ha	91	3	M	M	PR
Block 9: 6.8 ha	91	3	M	M	PR

Kootenay-Boundary Higher Level Plan Order	VSU#	Class: _
	90	3
	91	3

Foreground = 0-1km Midground = 1 – 5km Background = 5 –12km

Date Visual Landscape Inventory Completed:__Nov 2016__	DOES EVC EXCEED ESTABLISHED VQO?	**Yes ___**	**No** X

VIEWPOINTS & PHOTOGRAPH INFORMATION

Number and name of viewpoints from which the proposal is visible and photos are taken	**VP #1** Fishermans Wharf	**VP #2** Kootenay Lake Ferry	**VP #3** Harrop Procter Road
Viewpoint importance (Major/Minor/Potential)	Major	Major	Minor
Viewpoint co-ordinates (Lat./Long. or UTM inc. elevation (m)	x- 502935 y- 5496423 z-534m	x-504985 y- 5498257 z-534m	x-501594 y- 5495554 z-573m
Viewing distance (Foreground/Midground/Background)	2.1 Km (Mid)	2.6 Km (Mid)	2.8 Km (Mid)
Viewing duration (High/Moderate/Low)	High	High	Mod
Focal length of camera lens (digital equivalent mm)	50	50	50
Direction of view (degrees true)	312^0-12^0	280^0	310^0-15^0

1. ASSESSING BASIC VQO DEFINITION

Describe the level of impact that the proposed alteration, in combination with any existing non-VEG alterations, will have on the landscape from each viewpoint, using one of the following terms: ***Not visible, Not visually evident, Subordinate, Dominant, Out of scale***	**VP1** *Not visually evident*	**VP2** *Not visually evident*	**VP3** *Not visually evident*			
Which basic VQO definition would the proposed alteration, in combination with any existing non-VEG alterations, meet from all the selected viewpoints and taking into account viewpoint importance, viewing distance and viewing duration? P ___ R ___ PR X M ___ MM ___						
If applicable, state reasons why the proposed alteration(s) does not achieve the basic definition of the established VQO from any of the selected viewpoints. **Not applicable – PR is achieved.**						

2. ASSESSING VISUAL DESIGN

Have major lines of force been identified and used to develop the size and shape of the proposed operation? (If Yes, attach visual force analysis to this form.)	Yes ___ No X
Has the proposed operation borrowed from the natural character of the landscape? **Blocks and WTRAs have been designed to follow natural landscape patterns.**	Yes X No ___
Have edge treatments been incorporated into the design of the proposed operation (feathered edges, irregular cutblock design, etc.)? **Blocks and WTRAs have been designed to have irregular boundaries that follow natural landscape patterns.**	Yes X No ___
Have "islands," or patches of trees, been maintained to mitigate visual impacts and other resource management objectives? **WTRAs have been established within all blocks, and individual leave trees, to mitigate visual impacts as well as maintaining biodiversity.**	Yes X No ___
Are there any existing human-made alterations visible in the unit that exhibit poor design? If **Yes**, describe design deficiencies below:	Yes ___ No X
If applicable, list any additional design techniques used and/or state reasons why certain design techniques could not be employed. **Un-naturally straight timber harvest boundary lines have been kept to a minimum.**	

3. ASSESSING NUMERICAL DATA

Complete either the clearcut or partial-cutting section below depending on the silviculture system used.

Percent Alteration Worksheet for Clearcutting

Use photograph or computer simulation output from each viewpoint for percent alteration calculations. See Appendix 8 of Visual Impact Assessment Guidebook (2nd edition, Jan 2001) for example of calculation.	VP1	VP2	VP3		
1. Total area of landform/VSU in perspective view as seen from each viewpoint (measured in cm^2)	168	85.6	141		
2. Visible ground area of *proposed* alteration(s) in perspective view as seen from each viewpoint (measured in cm^2)	1.2	1.1	2.9		
3. Visible ground area of all *existing* alterations in non-VEG state in perspective view as seen from each viewpoint (measured in cm^2)	2.5	0.9	4.9		
4. Total % alteration of the viewshed in perspective view as seen from each viewpoint	2.2%	2.3%	5.5%		
Identify for each viewpoint which VQO will be achieved based on % alteration. See Table 3 in VIA Guidebook for % alteration guidelines.	PR	PR	PR		

Which VQO would the proposed alteration, in combination with any existing non-VEG alterations, meet from all the selected viewpoints based on percent alteration only?

P __ R __ PR X M __ MM __ or Other _____

Partial-cutting Evaluation – Not applicable to CP 409 blocks 8 and 9.

What percent volume or stems retention is proposed?	%Volume Remaining	% Stems Remaining

Which VQO would the proposed alteration, in combination with any existing non-VEG alterations, meet from all the selected viewpoints based on volume or stems remaining?

(See Table 4 in VIA Guidebook (2nd edition, Jan 2001) for partial-cutting guidelines, if applicable)

P __ R __ PR __ M __ MM __

VIA SUMMARY – CP 409 blks 8, 9

Does the proposal, in combination with any existing non-VEG alterations, achieve the basic definition for the established VQO?	Yes X No ___
Have visual design concepts and principles been incorporated into block/road design? **Block Boundary, WTRA Design and dispersed leave trees work in concert to ensure Visual Impacts will be minimized.**	Yes X No ___
Does the proposal, in combination with any existing non-VEG alterations, fall within the numerical ranges for the established VQO?	Yes X No ___

Given the three criteria listed above, does the proposal meet the established VQO from all the selected viewpoint(s)? **The proposal meets the established VQO based on the basic definition of PR, percent alteration, and the size, shape and design of proposed blocks.**	Yes X No___

Completed By: Timberland Consultants (2001) Date Completed: April 2, 2019.

	
	Robert Borhi, RPF April 2, 2019 *I certify that the work described herein fulfills standards expected of a member of the Association of British Columbia Forest Professionals, and that I did personally supervise the work.*

NOTES:

1. Proposed alterations are assessed using three criteria (the first two being the most critical ones): (1) meeting basic definition and intent of VQO, (2) quality of design, and (3) scale of alteration.
2. Silvicultural systems leaving significant tree cover will be assessed using volume or stems remaining rather than by scale of alteration as outlined in *Visual Impacts of Partial Cutting* (1997).
3. Visual quality objectives must be achieved from all selected viewpoints.

ADDITIONAL CONSIDERATIONS

Has this visual impact assessment incorporated all known alterations proposed in the scenic area for the next 5 years (i.e., all operations proposed by the same or different licensees)? [In scenic areas where operating areas are shared among licensees, there should be co-ordination between licensees in preparing VIAs (i.e., existing and proposed cutblocks/roads, if visible from the same viewpoints, must be shown for all licensees). Potential benefits are that one VIA may satisfy the requirements of several licensees, and/or digital data may be shared between licensees when preparing the VIAs.] **Yes** X **No** __

Comments: _____

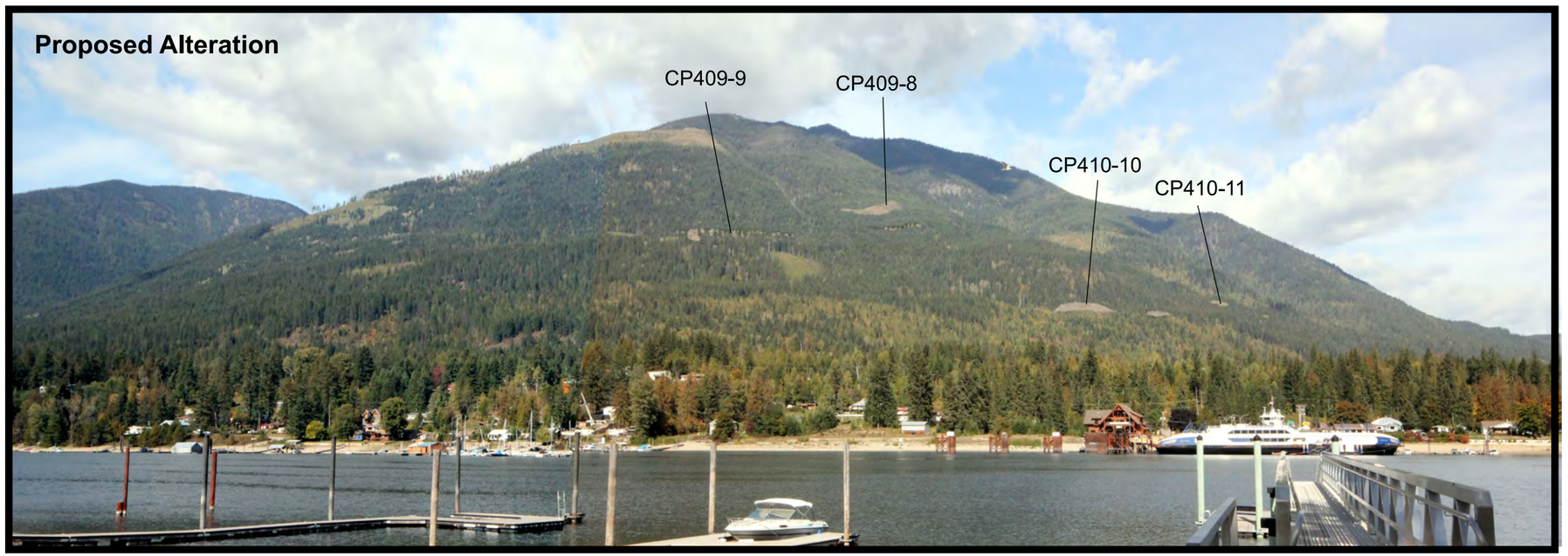
Cooper Creek Cedar

CP 409
Laird Creek

Viewpoint 1 North
Fishermans Wharf

Existing Condition

Proposed Alteration



Prepared By:

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Apr. 02 2019

Cooper Creek Cedar

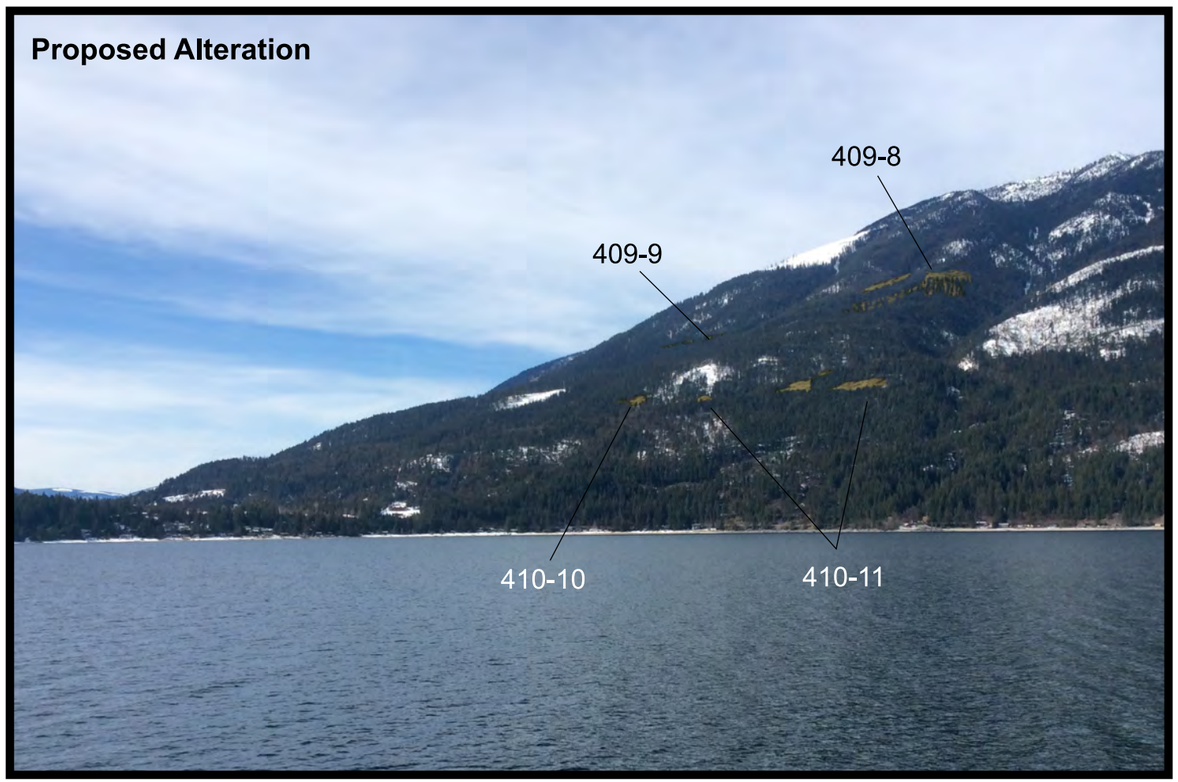
CP 409
Laird Creek

Viewpoint 2
Kootenay Lake Ferry

Visual Impact Assessment

Existing Condition

Proposed Alteration



Photography by Timberland: Jan 15th 2018

Prepared By:

Apr. 02 2019

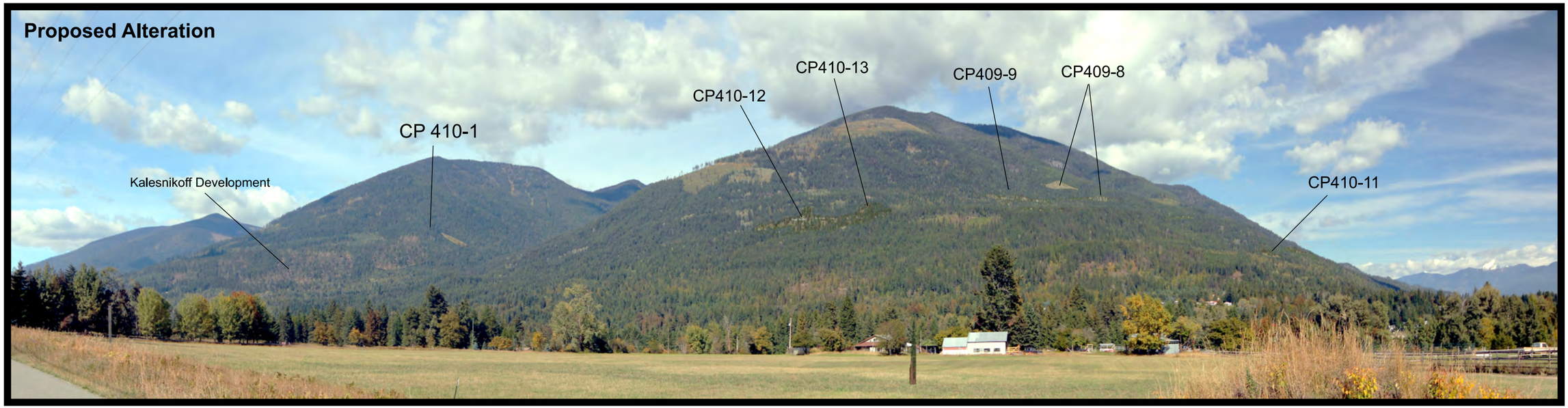
Cooper Creek Cedar

CP 409
Laird Creek

Viewpoint 3
Harrop /Procter Road

Visual Impact Assessment

Photography by Timberland: Sep.25 2018



Prepared By:

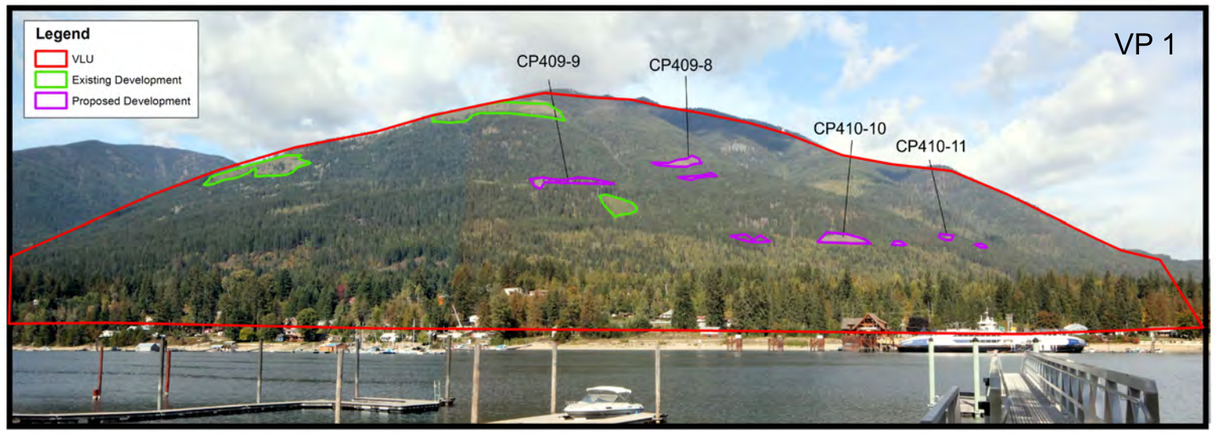
timberland mountain

Apr. 02 2019

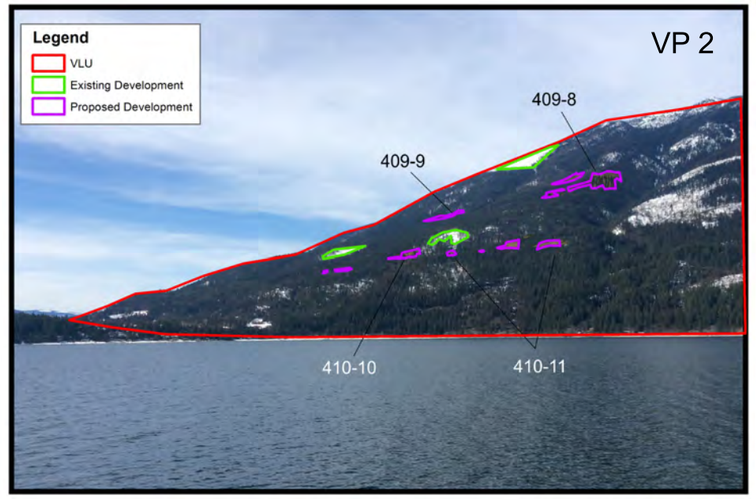
Cooper Creek Cedar

CP 409
Laird Creek

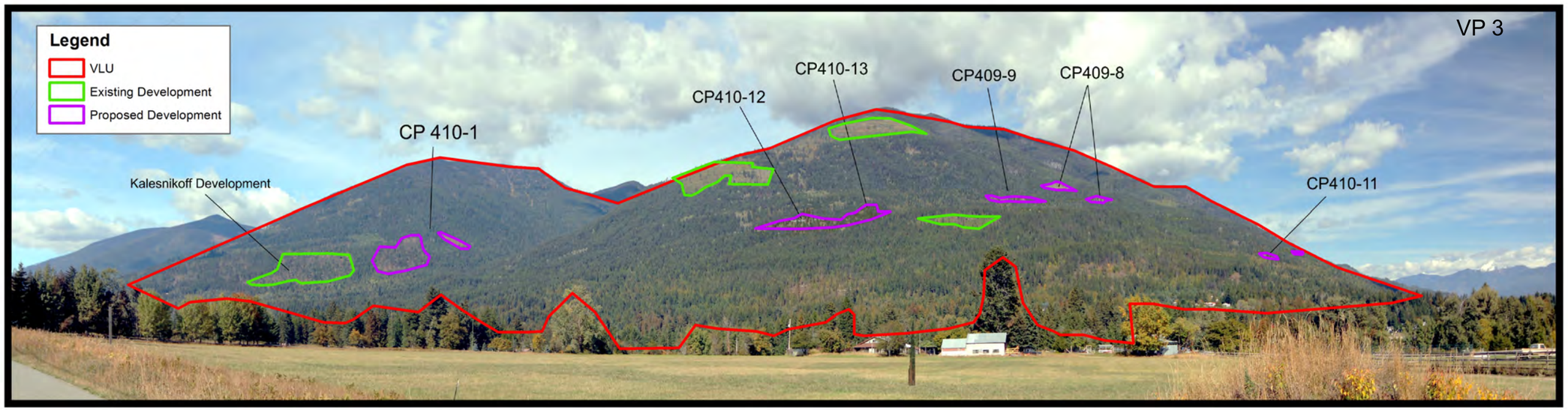
Calculations



VLU: 168 cm^2
Existing Harvesting: 2.5 cm^2
Proposed Alteration: 1.2 cm^2
% Alteration: 2.2%



VLU: 85.6 cm^2
Existing Harvesting: 0.9 cm^2
Proposed Alteration: 1.1 cm^2
% Alteration: 2.3%



VLU: 141 cm^2
Existing Harvesting: 4.9cm^2
Proposed Alteration: 2.9 cm^2
% Alteration: 5.5 %

Prepared By:
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Apr. 02 2019

COOPER CREEK CEDAR

CP 409
VIA Overview Map
Balfour Face

1:20,000

Legend

- Viewpoints
- CP 409 Blocks
- CP 410 Blocks
- Proposed Roads
- Existing Roads
- HWY
- VQO Linework

SU_ID

- WTRA

Stocking Code

- IMM
- MAT
- NP
- NSR
- Private Land

N W E S

Date: 3/27/2019

timberland

498000 499000 500000 501000 502000 503000 504000 505000

5500000 5499000 5498000 5497000 5496000

409-8 409-9 410-1 410-10 410-11 410-12 410-13

PR R VP1 VP2 VP3

Queens Bay

West Arm

Fraser Narrows

Document Path: G:\PROJ\cooper_crk\CP409\via\CP409_VIA_Overview.mxd