

**BCTS Foghorn VIA Update
prepared by
RDI Resource Design Inc
March 18, 2016**



- FO81S_blk_Mar_15_2016
- FO81J_BLOCK_BOUNDARY
- FO81K_BLOCK_BOUNDARY
- Contours_Clip
- FO81S_RD_Mar_15_2016
- Viewpoints
- FO81G_WTRAS
- FO7PS_NHZ
- A92773_KDC_reserves_Jan_7-2015
- FO81J_WTRA
- FO81S_WTRA
- FO81K_WTRA
- A92773_wtra
- FO7EM_H2014
- FO7EL-H2014
- Landform_Lines
- A92773_blk_boundaries_Jan7-2015
- Woodlot_new_blk_for_Ken
- 2008-2015completeclip
- Ften2008-2015completed
- FO8L9 Block shape
- MapGrid
- Highway5
- Harvested_blks_08-09
- CFP-2012-A18688
- N-Thompson

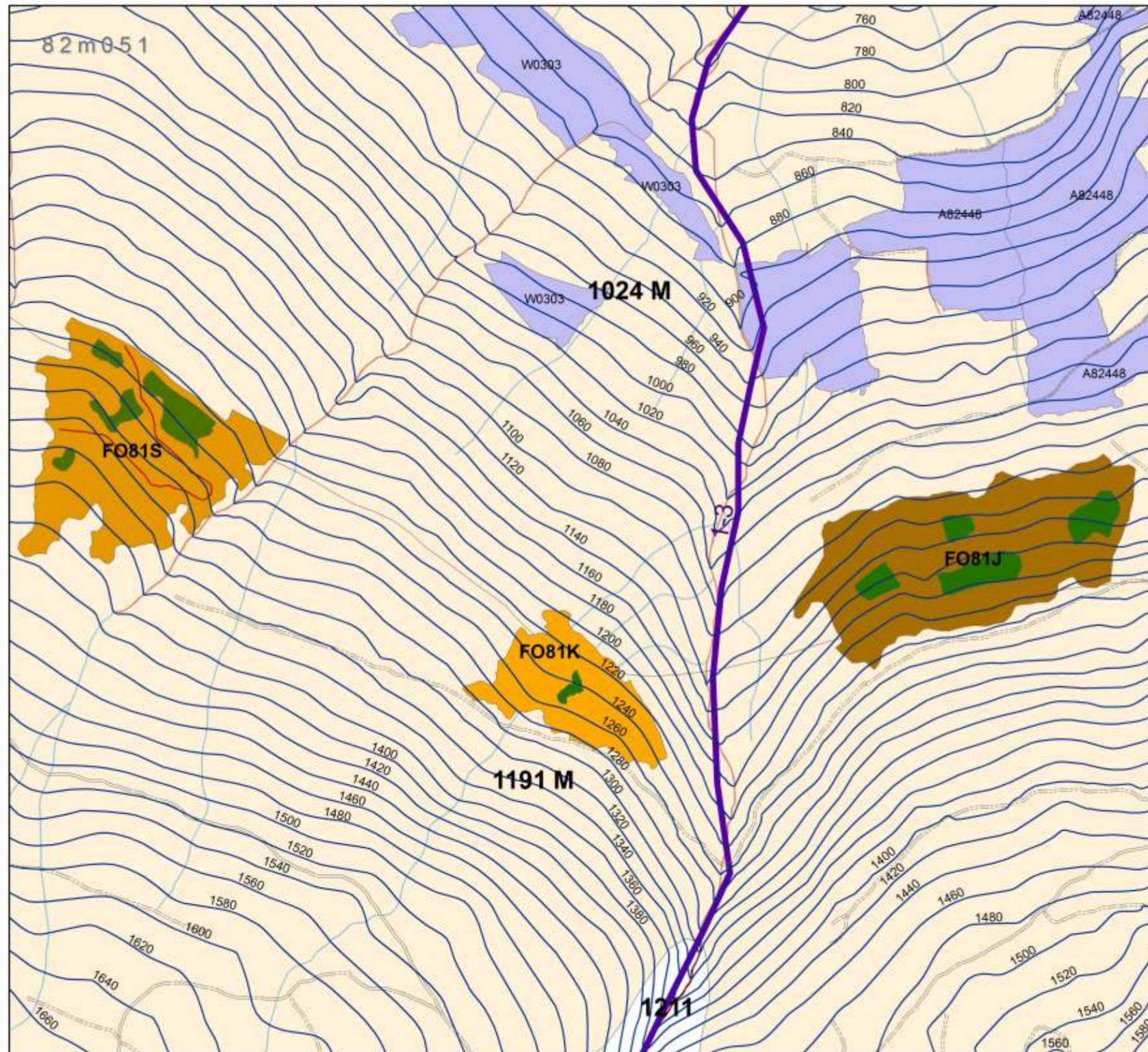
Current Analysis

(Feb. 20 2016 VIA)

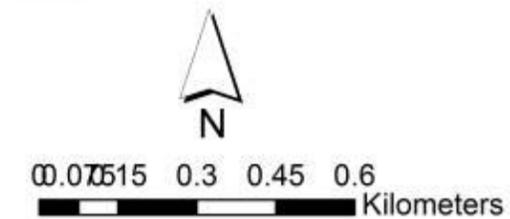
(Nov. 8 2015 Fo8L9 VIA)



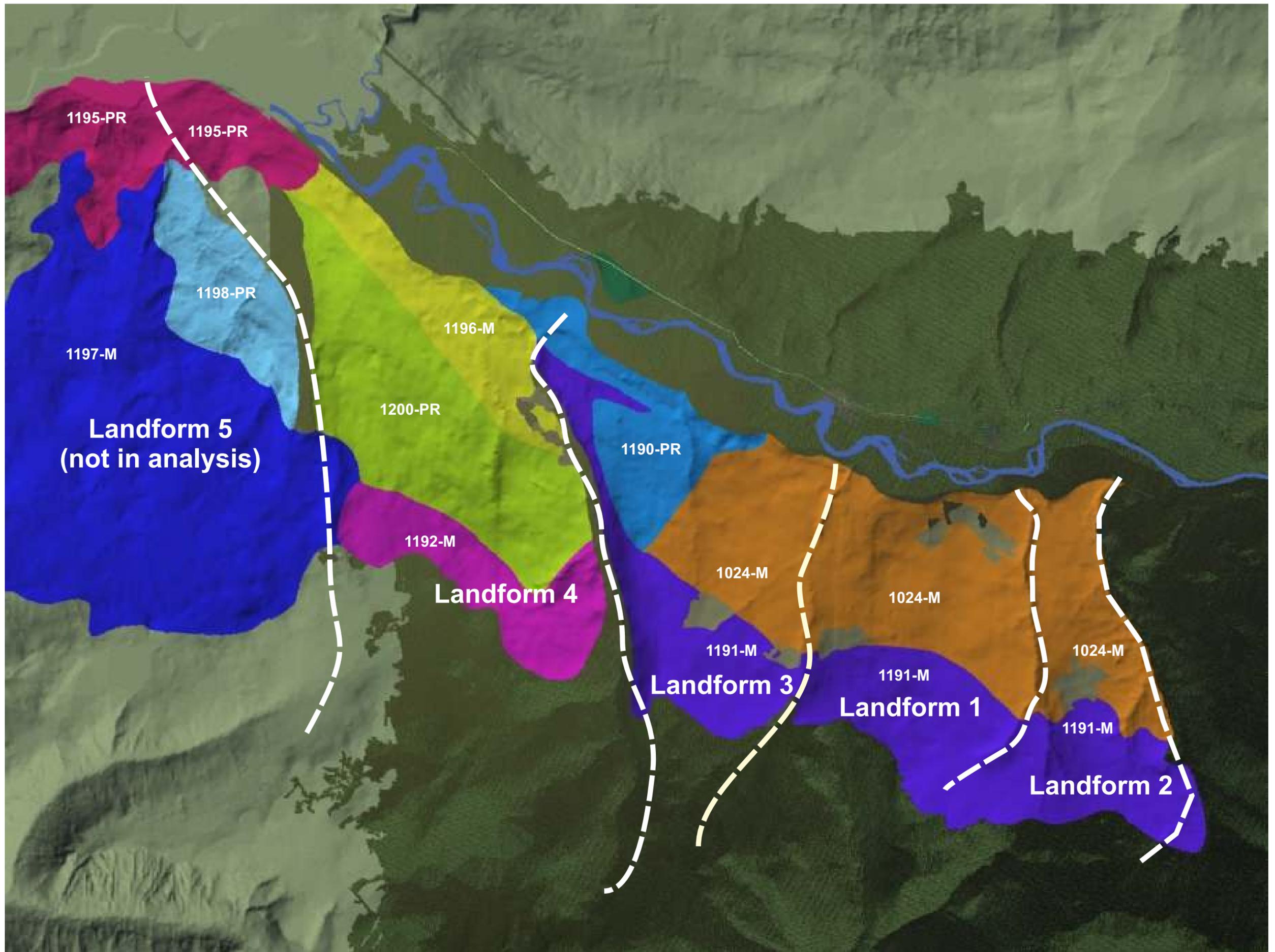
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Foghorn Keymap Close-up



VNS Simulation of Landforms and Visual Sensitivity Units

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Visual Impact Assessment Summary Table

District: Clearwater

Licensee: BCTS Kamloops Business Area

Licence	Block	Mapsheet	Landform	VSU/VQO	Most Restrictive VQO applied to Landform
Clearwater	Fo81J	82m051	1	1024-M, 1191-M	M
Clearwater	Fo81K	82m051	3	1190-PR, 1024-M, 1191-M	PR
Clearwater	Fo81S	82m051	3	1190-PR, 1024-M, 1191-M	PR
Clearwater	Fo8L9	82m051	4	1196-M, 1200-PR, 1192-M, 1195-M	PR
A92773	Fo81G	82m051	1	1024-M, 1191-M	M
A92773	Fo7PS	82m051	1	1024-M, 1191-M	M

Proposed year of Harvest: **2016-17** Proposed Silv System: **CC with WTRAs**

Type of Proposed Alteration (e.g. Cutblock, Road or Pipeline R/W, Oil lease, etc.): **Cutblock**

VISUAL LANDSCAPE INVENTORY LABEL (old)
VISUAL LANDSCAPE INVENTORY LABEL
Kamloops LRMP
VLU#s: See above; Ratings in VQO_Kamloops Shapefile

DOES EVC EXCEED THE ESTABLISHED VQO?

VSU#: VSR: VAC: EVC: EVQO:

No - see chart below

EVQO: **PR; M**

Viewpoints, Viewing Conditions, and Landforms/Cutblocks have been summarized in the following table:

VIEWPOINTS & VIEWING CONDITIONS, CUTBLOCKS AND LANDFORMS SUMMARY

		Sandbox	McCorvie	Birch	Miller	Raft
Viewpoint Importance	Major - Hwy 5	Major - Hwy 5	Major - Hwy 5	Major - Hwy 5	Major - Hwy 5	Major - Hwy 5
Viewing Distance - FO81J	MG - 5.5k	MG - 4.1k	far MG - 7.2k	BG - 9.7k	BG - 11.9k	
Landform	Cutblocks					
L1 - M	Fo81J	OK	OK - KDC-leave-160220	OK - KDC-leave-160220	OK - KDC-leave-160220	OK - KDC-leave-160220
L1 - M	Fo7PS	OK - KDC-leave-160220	OK - KDC-leave-160220	OK - KDC-leave-160220	NVS	NVS
L1 - M	Fo81G	OK - KDC-leave-160220	OK - KDC-leave-160220	OK - KDC-leave-160220	NVS	OK - KDC-leave-160220
L3 - PR	Fo81K	OK	OK	NVS	NVS	NVS
L3 - PR	Fo81S	OK - KDC-leave-160220	OK	NVS	NVS	NVS
L4 - PR	Fo8L9	NVS	NVS	OK	OK - minor	OK - minor
L2 - M	A18688-CFP	Visible from all viewpoints; east of L1				

ASSESSING BASIC VQO DEFINITION (confirmed with on-site visit)

Do the proposed alterations achieve the basic VQO definition for the established VQO from each of the identified viewpoints? If applicable state reasons why the proposal does not achieve the basic definition. Include any existing Non-Veg alterations.

Fo81J is seen in conjunction with Fo7PS and Fo81G also in Landform 1. RDI also made some design recommendations for those blocks that have been satisfactorily implemented in the 160318 final plans. See following table for summary of findings about VQO definition, Design, and Percent Alteration (if significant).

	Viewpoint				
Landform (VQO)	Sandbox	McCorvie	Birch	Miller	Raft
L1 (M)	M - 9.3	M - 8.9	Far MG - % not calc.	BG - % not calc.	Far BG - % not calc.
L2(M) (CFP only)	PR - 2.1	MM - 19.9 (sliver only)	BG - % not calc.	BG - % not calc.	BG - % not calc.
L3 (PR)	PR - 3.1	Minor - % not calc.	No new viz.	No new viz. - % not calc.	Distant - % not calc.
L4 (PR)	Distant - Nil	Distant - Nil	No new viz.	Minor viz. - % not calc.	Minor viz. - % not calc.
L5(PR)	NVS	Distant - Nil	Distant - Nil	Nil	Nil

ASSESSING VISUAL DESIGN

Do the proposed alterations exhibit elements of good visual design? YES NO

Do the proposed alterations respond to the lines of force analysis? YES NO

If No why?

An original hard angle forming the northwest corner of Fo81J would have been obvious travelling east on Highway 5. Fo81S also would have had a hard angle, seen mainly from Sandbox. These concerns have been addressed in the final plan with re-shaping, and addition of WTPAs and NHZs, thereby achieving the VQO definitions of Modification (L1) and Partial Retention (L3) based on both quality of design and percent alteration.

Fo81J is seen in conjunction with Fo7PS and Fo81G also in Landform 1. RDI also made some design recommendation for those blocks. These were addressed in the August VIA and further as demonstrated in this VIA Update of 160318. The existing CFP block is still somewhat dominant travelling east, seen in conjunction with the new blocks. It is located in a separate landform (Landform2), and not considered part of the BCTS assessment.

Partial Retention" means an alteration of a forest landscape resulting from the presence of cutblocks or roads, such that, when assessed from a viewpoint that is representative of significant public viewing opportunities, the alteration (a) is easy to see, (b) is small to moderate in scale, and (c) has a design that appears natural and is not angular or geometric. Acceptable Range for Partial Retention: 1.5-7%.

"Modification" means an alteration of a forest landscape resulting from the presence of cutblocks or roads, such that, when assessed from a viewpoint that is representative of significant public viewing opportunities, the alteration is very easy to see and is either (a) large in scale with a design that is natural in its appearance, or (b) small to moderate in scale but with a design that has some angular characteristics.

Acceptable Range for Modification VQO: 7%-18%.

Are there existing human made alterations visible in the unit showing no or poor design? NO YES

FOREGROUND ALTERATIONS AND SCREEN DESIGN

Is the visible portion of proposed alteration within 1 kilometre of the viewing locations? YES NO

Does vegetative or landform screening exist? YES NO

If yes, what type: Deciduous Coniferous Mixed Forest Landform

Would the screen hide proposed operations? YES

Would the screen hide proposed operations? YES NO

A substantial screen exists along the valley bottom.

Is vegetative screen designed properly ie responds to lines of force, shape & scale and remains a viable unit for future removal? YES NO N/A River

Is vegetative screen expected to be windfirm? YES NO N/A not known

If alteration would not be screened or only partially screened, describe the actions proposed to reduce the visual impact in the immediate foreground (e.g. landing location, roadside clean-up, etc.)

No foreground

ADDITIONAL CONSIDERATIONS

Does the EVC in adjacent units exceed the established VQO for those units and how would this affect the management of the present unit proposed for alteration? YES NO

Comments: Perspective foreshortening causes CFP block to exceed M. Seen together with Landform 1 which has RDI design changes as specified above.

Has this VIA submission incorporated all known alterations proposed within the Visual Sensitivity Unit for the next 5 years? (i.e. all blocks proposed by the same or different licensees) YES NO

Comments:

Prepared by:

Ken B. Fairhurst, PhD, RPF
RDI Resource Design Inc
March 18, 2016

RDI Resource Design Inc
March 18, 2016



Sandbox Viewpoint Photo by T. Luedke, May 2015

7100 Pixel 2400 Indent



Sandbox Viewpoint VNS Simulations with Final WTPAs and NHZs as of 160318

Window in to view the distinctions between the two scenarios for Fo7PS, Fo81G, Fo81J, Fo81K and Fo81S.



Sandbox Viewpoint VNS Simulations - 151017 Configuration

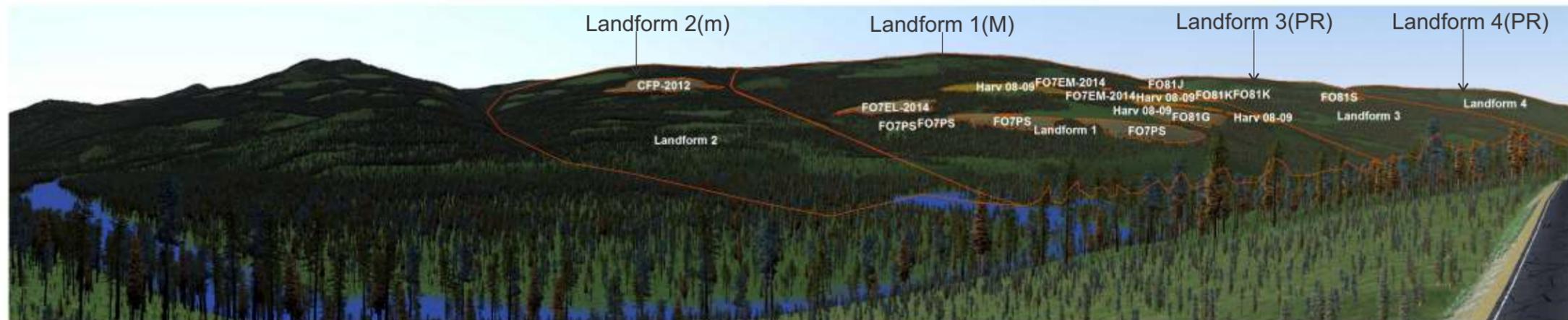


Sandbox Viewpoint Photo by T. Luedke, May 2015

7167 Pixel VNS



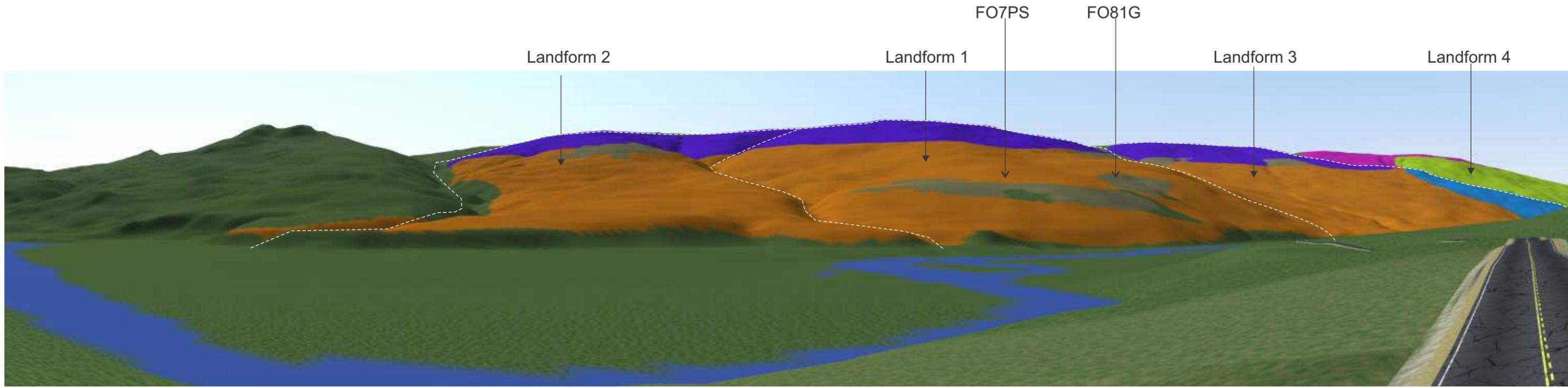
Sandbox Viewpoint VNS Simulations with Final WTPAs and NHZs as of 160318



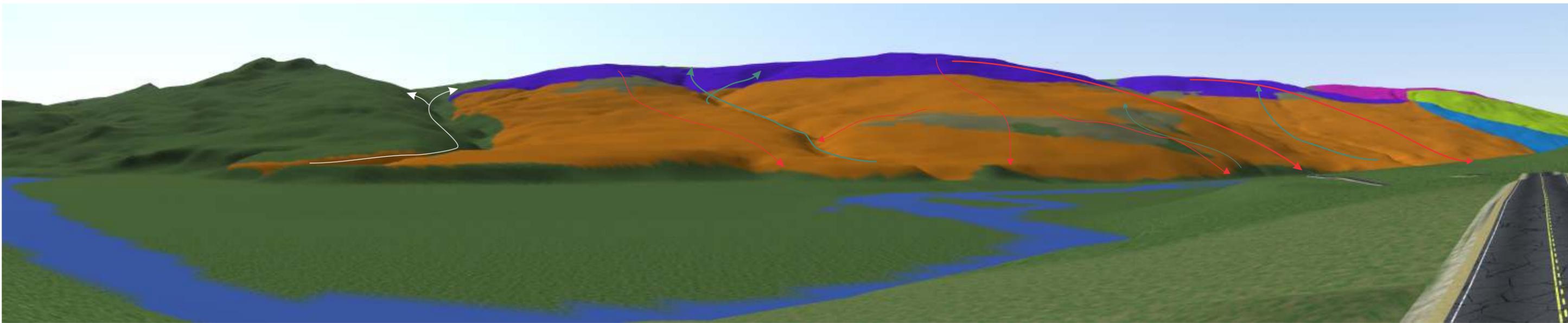
Fo7PS - reduced angularity, more leave patches
 Fo81G - reduced angularity, more leave patches
 Fo81S - reduced angularity, more leave patches
 Fo81J - reduced angularity, more leave patches
 FO81K - reduced angularity, leave patch
 Window in to view the distinctions between the two scenarios for Fo7PS, Fo81G, Fo81J, and Fo81S.

Item	Digital Area	Percent Alteration
Landform 2	346698.72	
CFP-2012	7436.91	2.1%
Landform 1	496921.82	
FO7EL-2014	6518.28	1.3%
FO7PS	8860.15	1.8%
FO7PS	115.90	0.0%
FO7PS	24.53	0.0%
FO7PS	169.82	0.0%
FO7PS	16.62	0.0%
FO7PS	14.51	0.0%
FO7PS	13492.61	2.7%
FO81G	6616.76	1.3%
FO7EM-2014	417.08	0.1%
FO7EM-2014	36.14	0.0%
FO7EM-2014	8.35	0.0%
FO7EM-2014	102.40	0.0%
FO7EM-2014	16.62	0.0%
Harv 08-09	2835.28	0.6%
Harv 08-09	1166.83	0.2%
Harv 08-09	189.49	0.0%
Harv 08-09	143.11	0.0%
Harv 08-09	344.36	0.1%
Harv 08-09	5296.44	1.1%
Sum Landform 1	46385.27	9.3%
Landform 3	127788.68	
FO81J	621.35	0.5%
FO81K	1279.77	1.0%
FO81K	140.97	0.1%
FO81S	1881.96	1.5%
Sum Landform 3	3924.05	3.1%
Landform 4	46342.46	
No visible alteration	0.00	0.0%

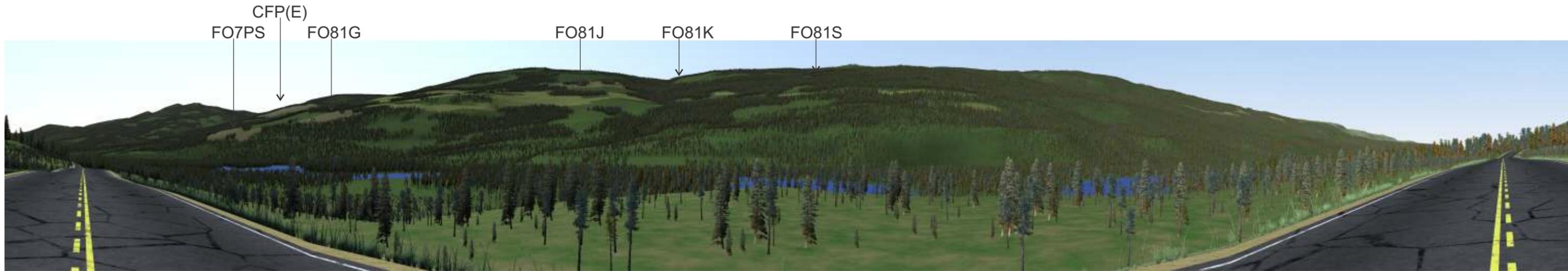
Percent Alteration as of 1510 left unchanged
 Minor adjustment only with new changes
 Shapes and Leave Areas Enhanced to meet VQOs



- VSU 1024 - Modification
- VSU 1191 - Modification

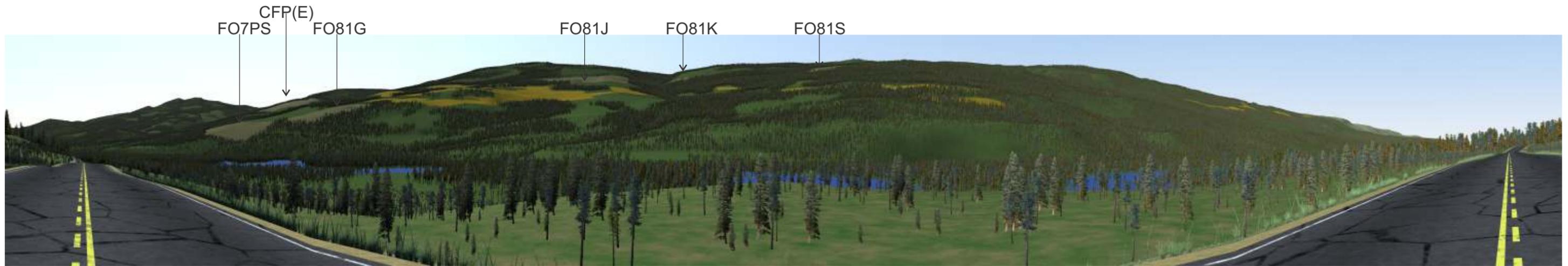


- Visual Force Convexity
- Visual Force Concavity



McCorvie Final - 160318 with KDC leave

9800 pixel width



McCorvie original. Existing nonVEG in orange.

- Fo7PS - reduced angularity, more leave patches
- Fo81G - reduced angularity, more leave patches
- Fo81S - reduced angularity, more leave patches
- Fo81J - reduced angularity, more leave patches
- Fo81K - reduced angularity, leave patch

Window in to view the distinctions between the two scenarios for Fo7PS, Fo81G, Fo81J, Fo81K, and Fo81S.

McCorvie with RDI Leave. Existing nonVEG in pale green.
Only Fo81K and Fo81S in L3. See also Sandbox.

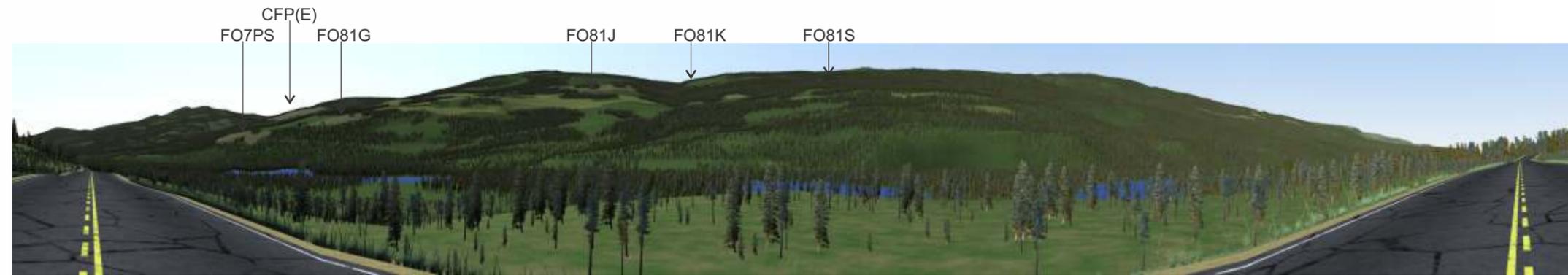
No Percent Alteration prepared for Landform 3 due small size of Fo8L9.

McCorvie Viewpoint Photo by T. Luedke, May 2015



Landforms L1 and L1+L2 within VSU

with RDI Recommended Changes to BCTS Plan

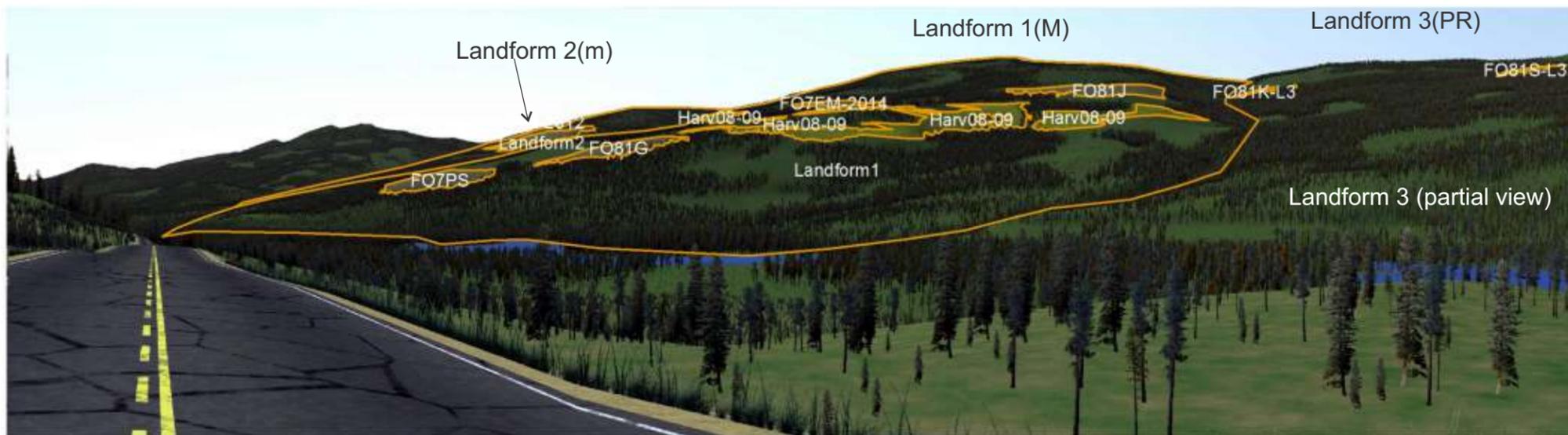


McCorvie Final - 160318 with KDC leave

9800 pixel width

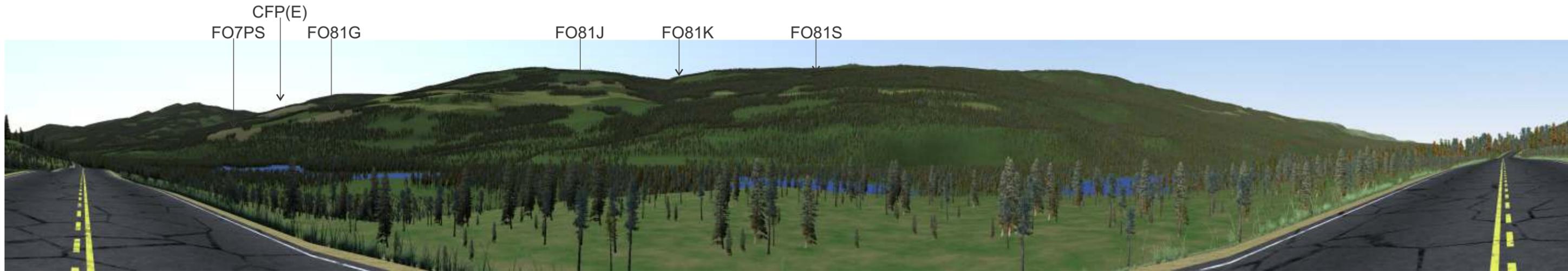
McCorvie Percent Alteration Landform 1		
Item	Area2	%Alt L1
Landform1	634671.5	
FO7PS	7400.8	1.2%
FO81G	5933.9	0.9%
FO7EM-2014	1852.0	0.3%
Harv08-09	23632.0	3.7%
Harv08-09	300.9	0.0%
Harv08-09	752.6	0.1%
Harv08-09	8414.1	1.3%
Retained	1161.7	-0.2%
Harv08-09	1383.9	0.2%
FO81J	6735.2	1.1%
Sum Alt L1	56405.4	8.9%

McCorvie Total Percent Alteration Landform 1+2			
		%Alt L2	%Alt L1+L2
Landform2	26607.0		
CFP-2012	3969.2	14.9%	0.6%
Sum L1+L2	661278.5		
Sum Alt L1+L2	60374.6		9.1%



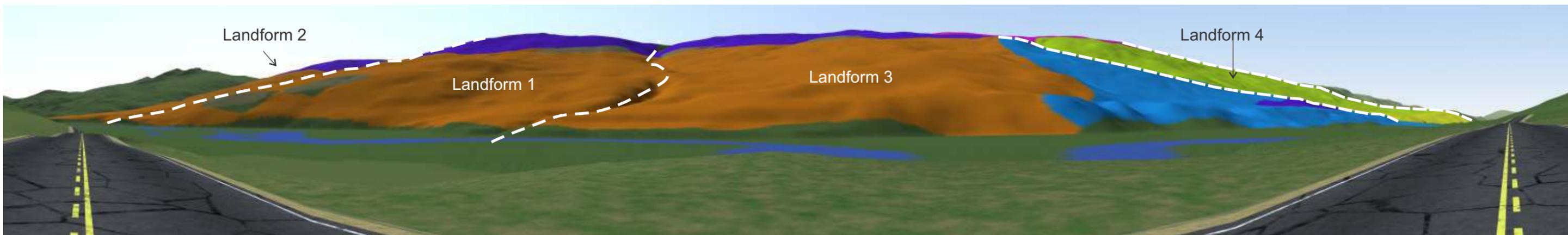
Updated to 151017

No update for Percent Alteration - minor change only
 Landform 2 with existing CFP block presented
 for information only
 Percent Alteration for Landform 3 not calculated
 Partial representation only of landform in this rendering.
 See Sandbox, p.6.

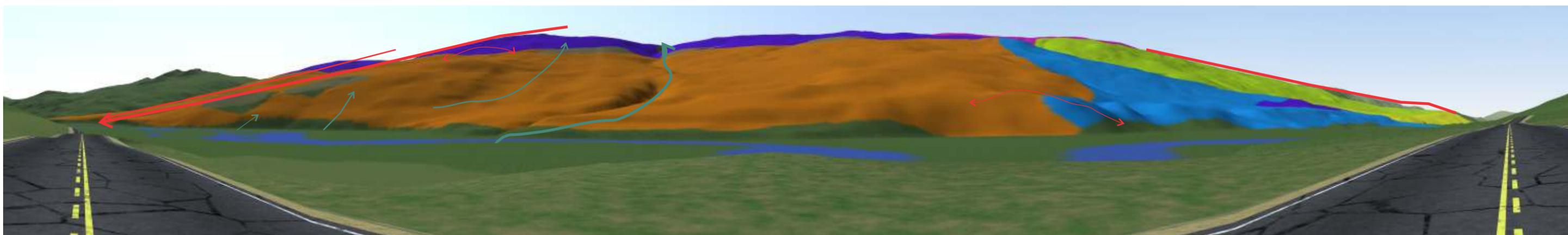


McCorvie Final - 160318 with KDC leave

9800 pixel width

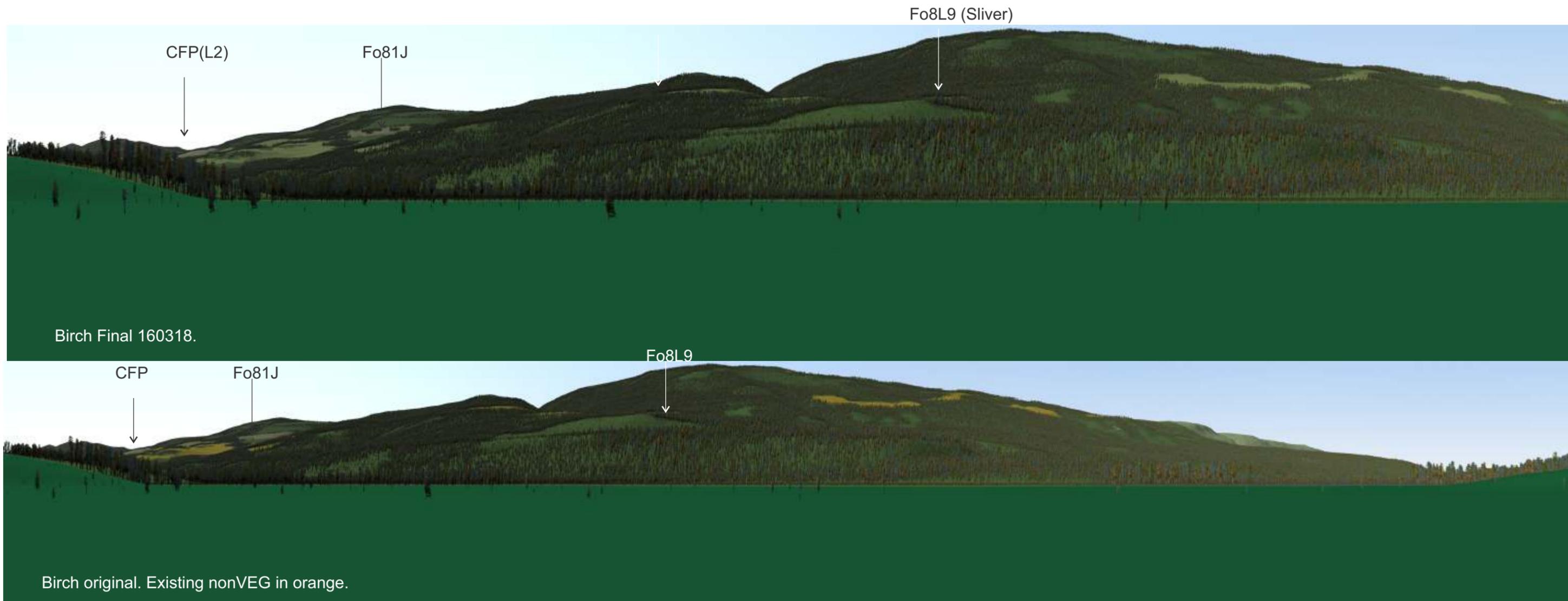


- VSU 1024 - Modification
- VSU 1191 - Modification
- VSU 1190 - Partial Retention
- VSU 1200 - Partial Retention



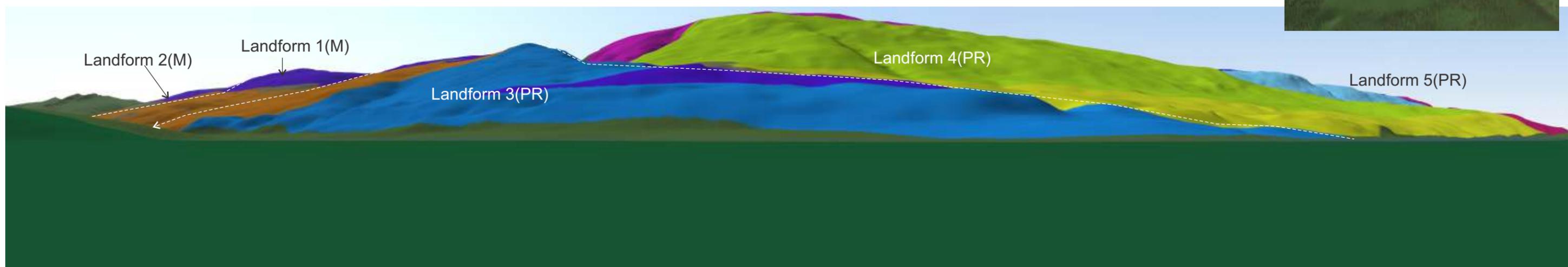
No Percent Alteration prepared for Landform 3 due small size of Fo8L9.

- Visual Force Convexity
- Visual Force Concavity



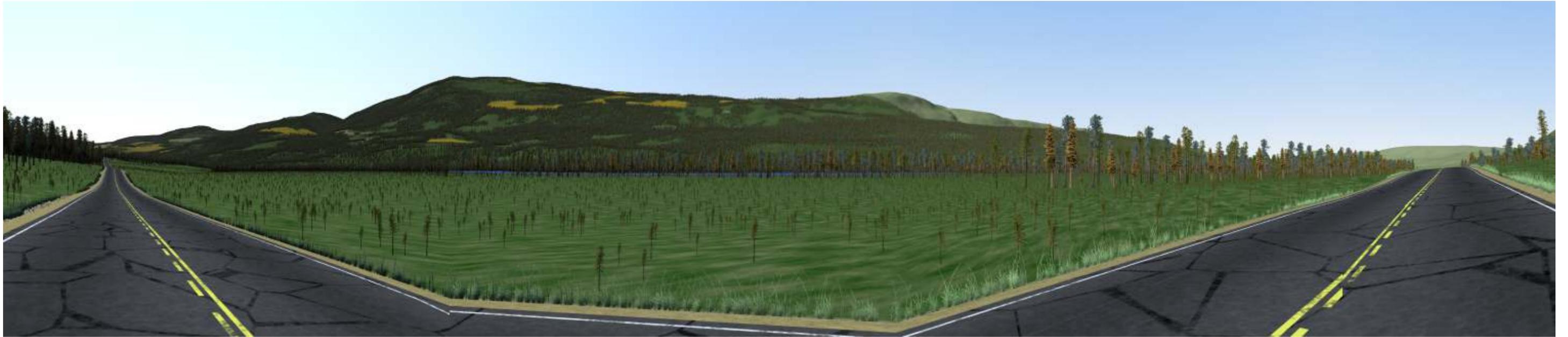
9327 pixels

Fo81J- reduced angularity, more leave patches
 Window in to view the distinctions between the two scenarios for Fo81J.
 No Percent Alteration prepared for Landform 3 due small size of Fo8L9.



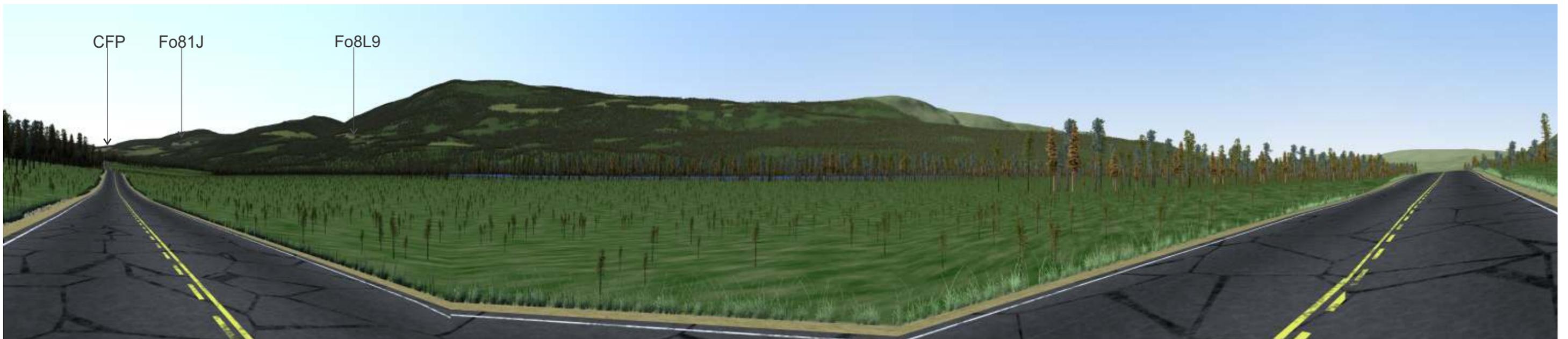
Fo8L9 only in L4. See McCorvie and Sandbox for L1 blocks.

No Percent Alteration prepared for Landform 3 Fo8L9 sliver only.
See Sandbox, pp.5 - 7 for Fo81K and Fo81S Percent Alteration.



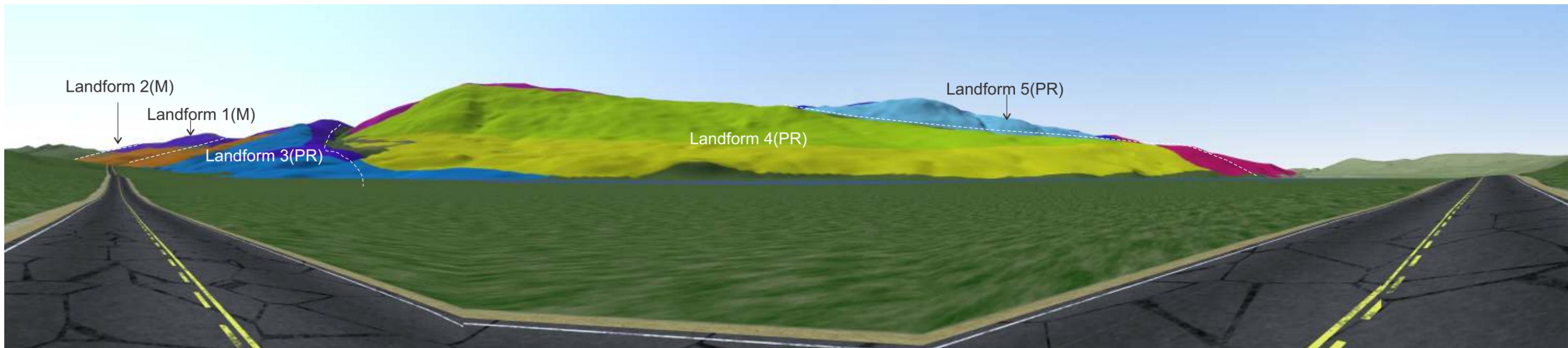
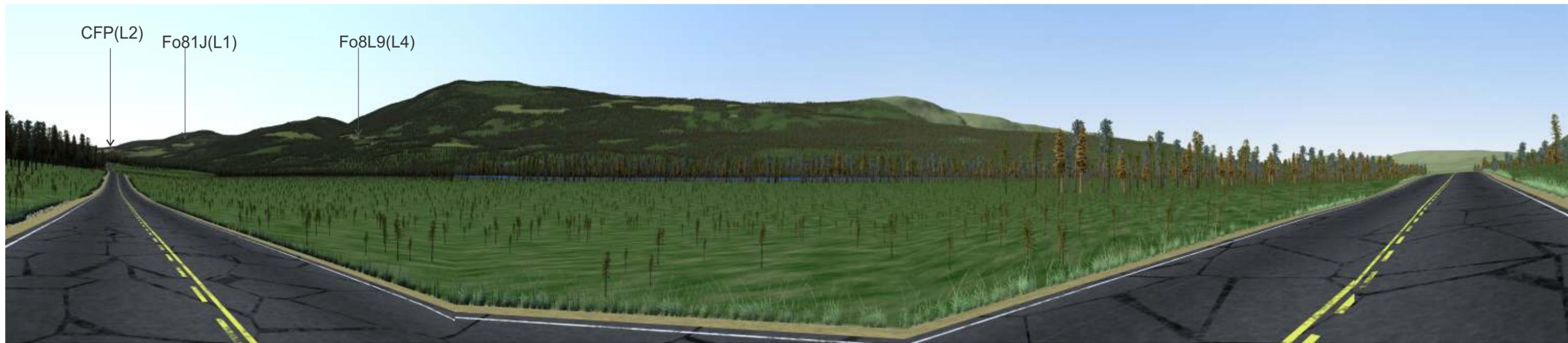
Miller original. Existing nonVEG in orange.

6676 pixels



Miller final. Existing nonVEG in pale green.

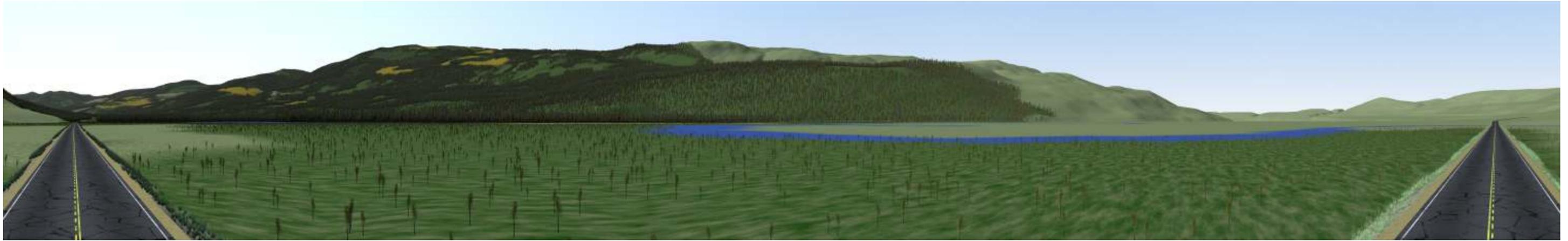
Fo81J- reduced angularity
Window in to view the distinctions between the two scenarios for Fo81J.



Fo8L9 only in L4. See McCorvie and Sandbox for L1 and L3 blocks.

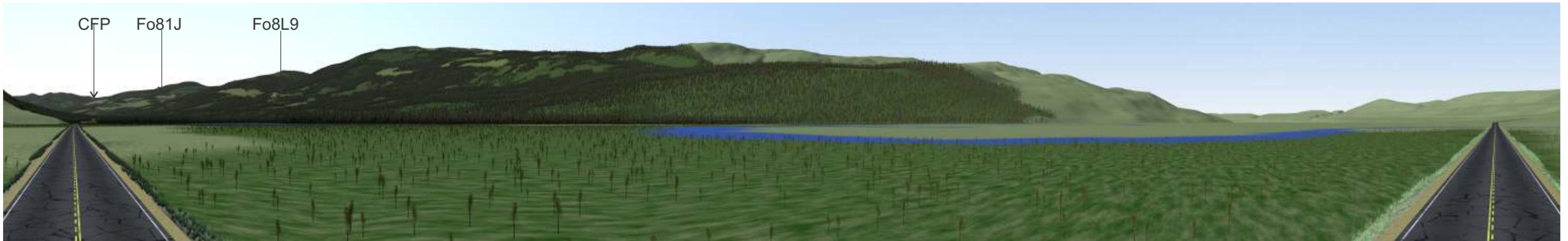
No Percent Alteration prepared for Landform 4 due small size of Fo8L9.

Miller Viewpoint VNS Simulations with Visual Sensitivity Units and Photography



Raft original. Existing nonVEG in orange

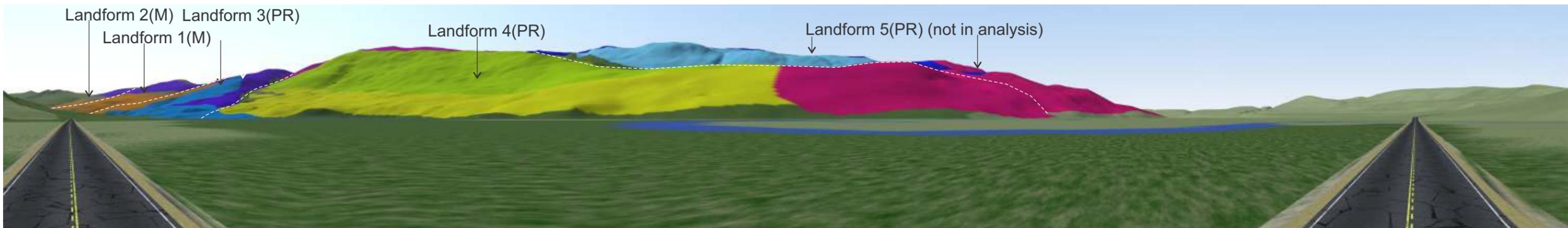
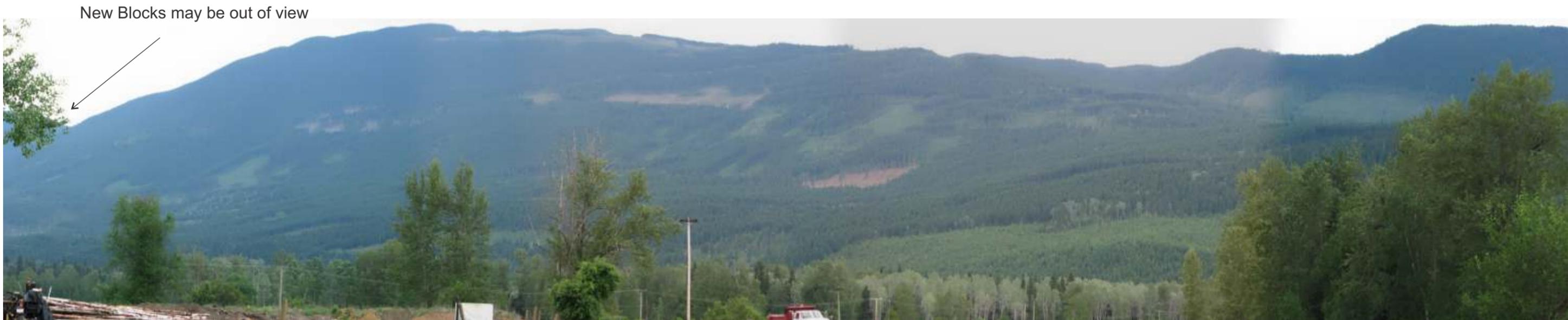
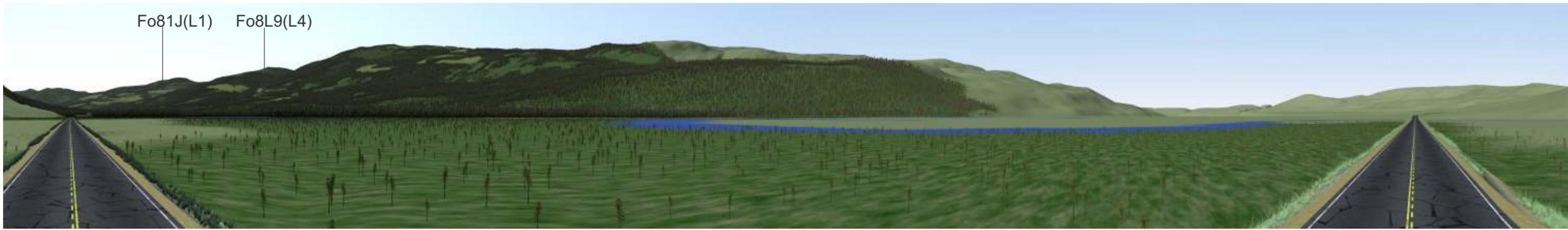
9425



Raft final. Existing nonVEG in pale green.

Fo81J- reduced angularity

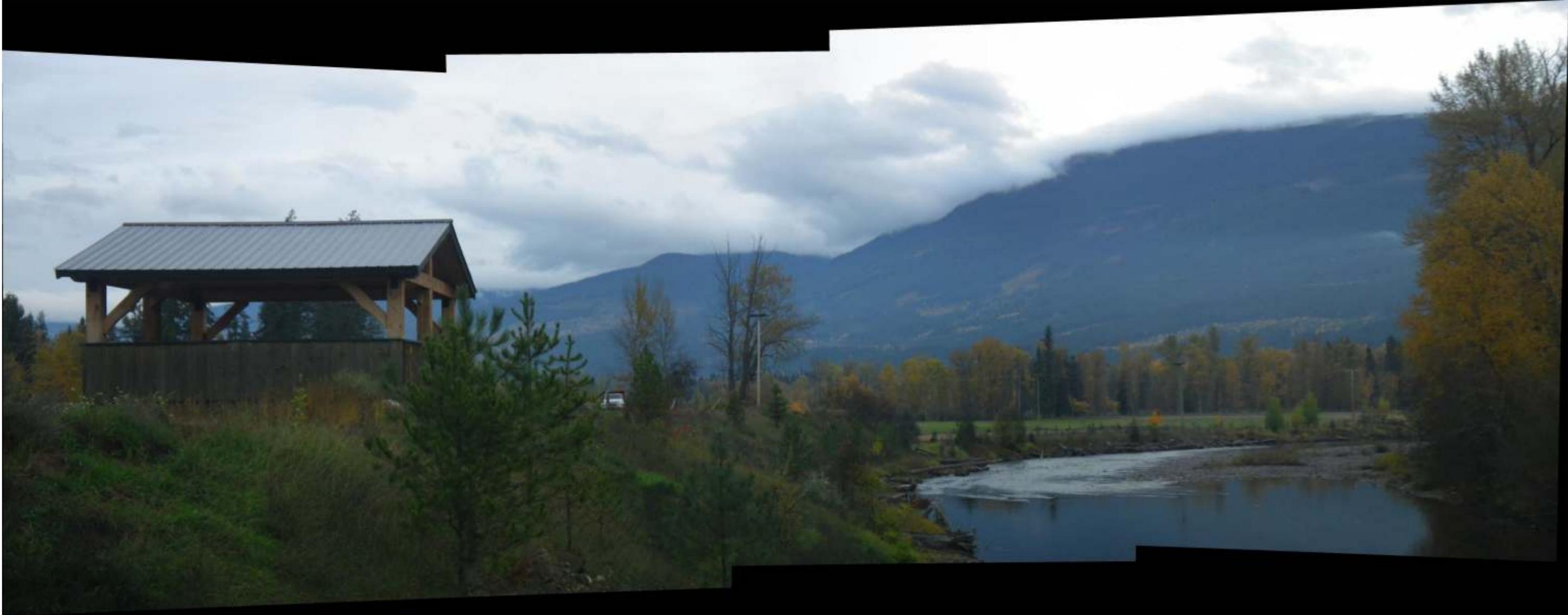
Window in to view the distinctions between the two scenarios for Fo81J.
No Percent Alteration prepared for Landform 4 due small size of Fo8L9.



Fo8L9 only in L4. See McCorvie and Sandbox for L1 and L3 blocks.

10015

No Percent Alteration prepared for Landform 4 due small size of Fo8L9.



Raft Photo