

**BCTS Avola-2018 Visual Assessment
TA0030 plus Adjacent
Prepared by
RDI Resource Design Inc
October, 2018**

- TA0030VPs
- HWY5
- RDI_Landforms
- River_Clip
- River
- TA0030_Rds_aug14_18
- AvolaCTRuse
- Blocks_adjacent_to_TA0030
- TA0030
- Avola_2015_Waterbodies_Clip
- VLlclip-Avola**
- NVS
- Modification VQO
- Partial Retention VQO



0 245490 980 1,470 1,960 2,450
Meters

Amended November 6, 2018 (Final)

Contents

1	Key Map
2	Contents
3	VIA Summary
4	Viewpoint 1717
5	Viewpoint 1720 (Bridge)
6	Viewpoint 1720 Percent Alteration
7	Viewpoint 2000m north of Bridge
8	Viewpoint Kinder Morgan Pull-out
9	Viewpoint Kinder Morgan Percent Alteration
10	Viewpoint 3780m north of Bridge

Visual Impact Assessment TA0030 Cutblocks 1-7 and Adjacent Openings

TA 0030 is located to the north of the Avola bridge on the North Thompson River. TA0030 is comprised of 7 openings of various sizes and shapes. They are located in VSUs 937 (PR VQO) and 924 (M VQO). These are delineated for purposes of this analysis as Landforms 1 and 2 on the Key Map (page 1), and as indicated in the following chart:

Cutblocks by VSU-Landform	
Landform 1 (VSU 937-PR)	Landform 2 (VSU 924-M)
TA0030-1	TA0030-5
TA0030-2	TA0030-6
TA0030-3	TA0030-7
TA0030-4	Adjacent
P/L ROW	P/L ROW
Landform 2 does not include steeper landform (VSU 911 (M))	

A third VSU, VSU 911, also M VQO, sits on a steeper landform along the river but is not considered part of the analysis.

Five viewpoints were selected for this assessment:
 1717 (600m south of Avola Bridge)
 1720 (Avola Bridge)
 2000m north of Bridge
 Kinder Morgan Pull-out 2900m north of Bridge
 3780m north of Bridge.

Cutblocks generally conform to visual forces from all viewpoints as evidenced in the image pages. Viewpoints 1720 and Kinder Morgan were selected for full analysis, including Visual Force Analysis and Percent Alteration as presented on the pages for each viewpoint.

The 1720 Bridge viewpoint provides a broad view of the Landforms 1 and 2, achieving 4.88% and 3.52% perspective alteration respectively, easily meeting the established Partial Retention VQO. The powerline ROW accounts for 1.48% in Landform 1 as it leads to and runs between TA0030-3 and 4 (a total of 4.2%). The powerline also contributes 1% alteration in Landform 2. However, FLNRO guidance suggests transmission lines need not be included in forest alteration calculations and should already have been removed for cut calculations according to the following document: https://www.for.gov.bc.ca/dkm/2014_Memo_Utility_Corridors.pdf. I did not seek further advice within the Thompson Okanagan Forest Region.

The Kinder Morgan Pull-out view of Landform 1 exceeds PR by 0.9% perspective alteration at 7.9%, including the calculation for P/L ROW (1.06%). The powerline clearing was included as it runs between Cutblocks 3 and 4, coalescing with the 2 cutblocks (a total of 5.52%). FLNRO guidance suggests exclusion as already noted in the Viewpoint 1720 discussion. Regardless of inclusion or exclusion of the powerline from calculations, I find the combined effect of blocks 3 and 4 with the frequently cleared line between as seen from the Kinder Morgan pull-out presents overly open exposure that would benefit from some leave patches.

As a further consideration, TA0030-5 causes half of the perspective alteration in Landform 2 (3.12%). Although the total percent alteration in Landform 2 (6.46%) is below the allowance for the established VQO of Modification (7.1%-18%), I raise this as a concern as the cutblock also has 5 potentially visible switchbacks that could draw attention. Addition of some leave patches in this cutblock is recommended.

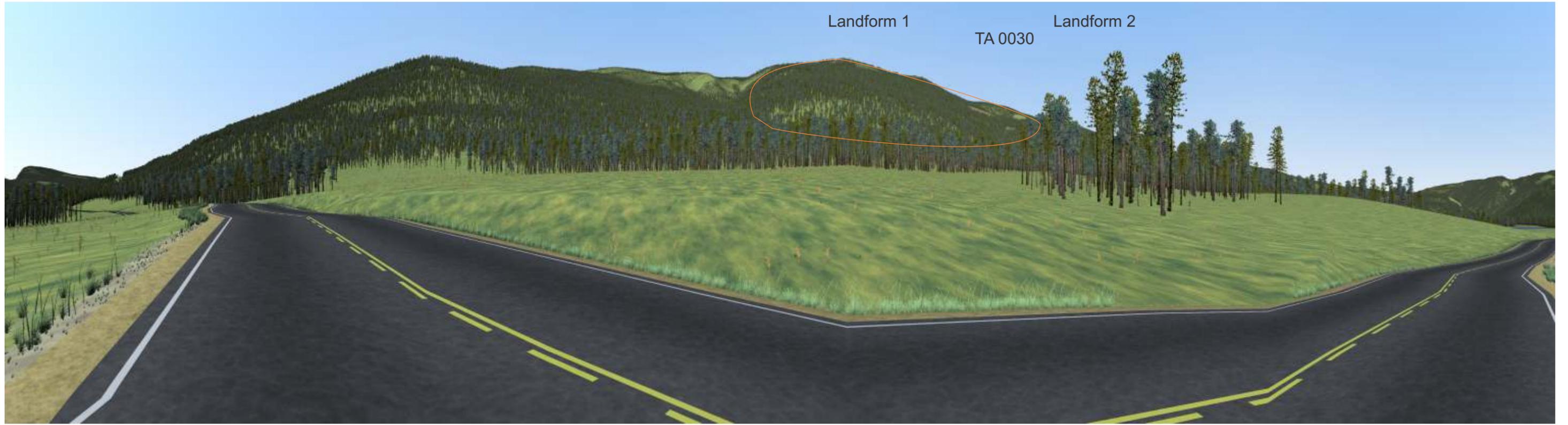


RDI Resource Design Inc
 October 29, 2018
 Amended November 6, 2018

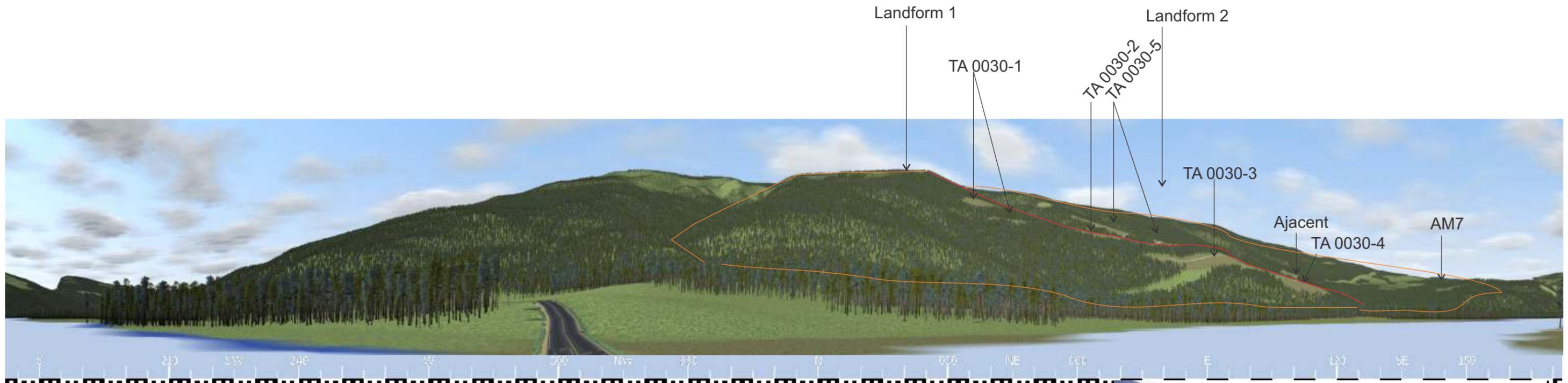
Percent Alteration Viewpoint 1720 (Bridge)		
NAME_1	AREA_Pers	% Alt
Landform1	442106	
TA0030-1	1640	0.37%
TA0030-1	299	0.07%
TA0030-2	83	0.02%
TA0030-2	85	0.02%
TA0030-2	832	0.19%
TA0030-3	7727	1.75%
TA0030-4	4348	0.98%
P/L ROW	462	0.10%
P/L ROW	6103	1.38%
Sum Alt L1	21579	4.88%
Landform2	123452	
TA0030-5	1750	1.42%
TA0030-5	542	0.44%
Adjacent	527	0.43%
AM7	263	0.21%
P/L ROW	1267	1.03%
Sum Alt L2	4349	3.52%

Updated November 1, 2018

Percent Alteration Kinder Morgan VP		
NAME_1	AREA_Pers	% Alt
Landform1	341074	
TA0030-1	4244	1.24%
TA0030-2	3859	1.13%
TA0030-3	11126	3.26%
TA0030-4	4091	1.20%
P/L ROW	3621	1.06%
Sum Alt	26941	7.90%
Landform2	307601	
TA0030-5	9594	3.12%
TA0030-7	4091	1.33%
Adjacent	2874	0.93%
Adjacent	3325	1.08%
Sum Alt	19884	6.46%



— Landform Delineation



— Landform Delineation



Photo by Ches Clem, BCTS 2013

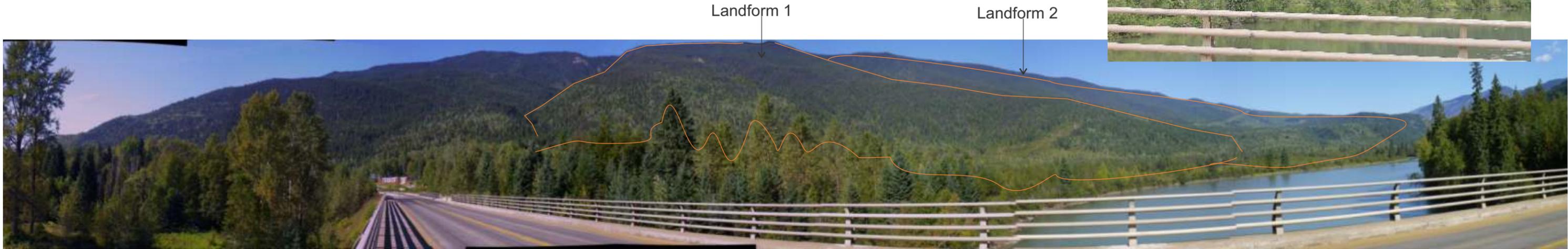
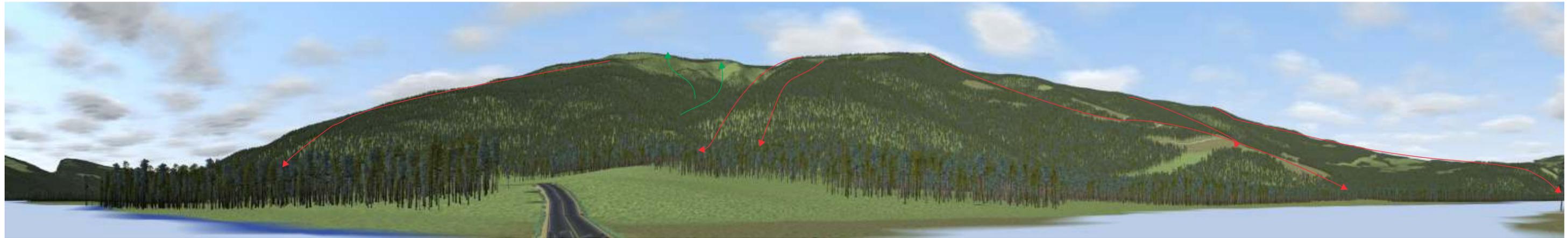
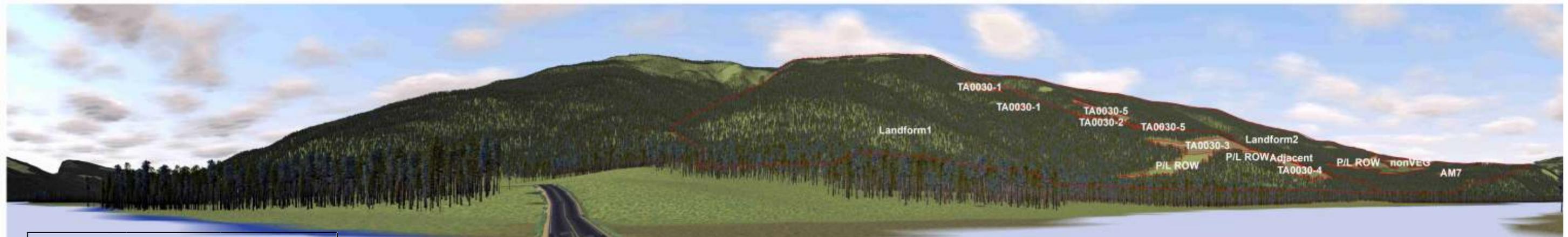


Photo by Ken Fairhurst 2013

Viewpoint 1720

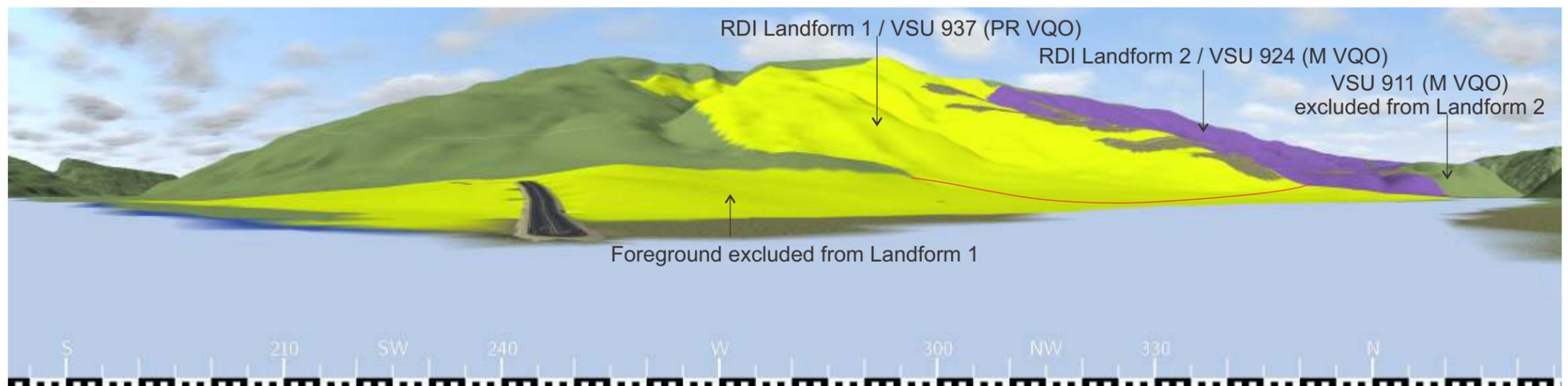


- Visual Force Convexity
- Visual Force Concavity



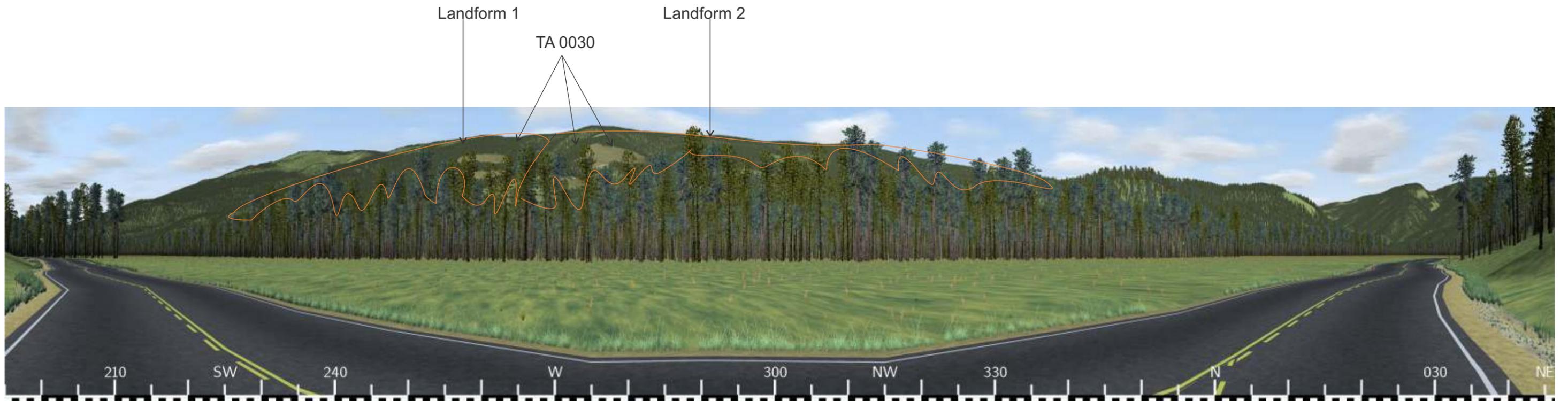
Percent Alteration Line-work from ArcGIS

Percent Alteration Viewpoint 1720 (Bridge)		
NAME_1	AREA_Pers	% Alt
Landform1	442106	
TA0030-1	1640	0.37%
TA0030-1	299	0.07%
TA0030-2	83	0.02%
TA0030-2	85	0.02%
TA0030-2	832	0.19%
TA0030-3	7727	1.75%
TA0030-4	4348	0.98%
P/L ROW	462	0.10%
P/L ROW	6103	1.38%
Sum Alt L1	21579	4.88%
Landform2	123452	
TA0030-5	1750	1.42%
TA0030-5	542	0.44%
Adjacent	527	0.43%
AM7	263	0.21%
P/L ROW	1267	1.03%
Sum Alt L2	4349	3.52%

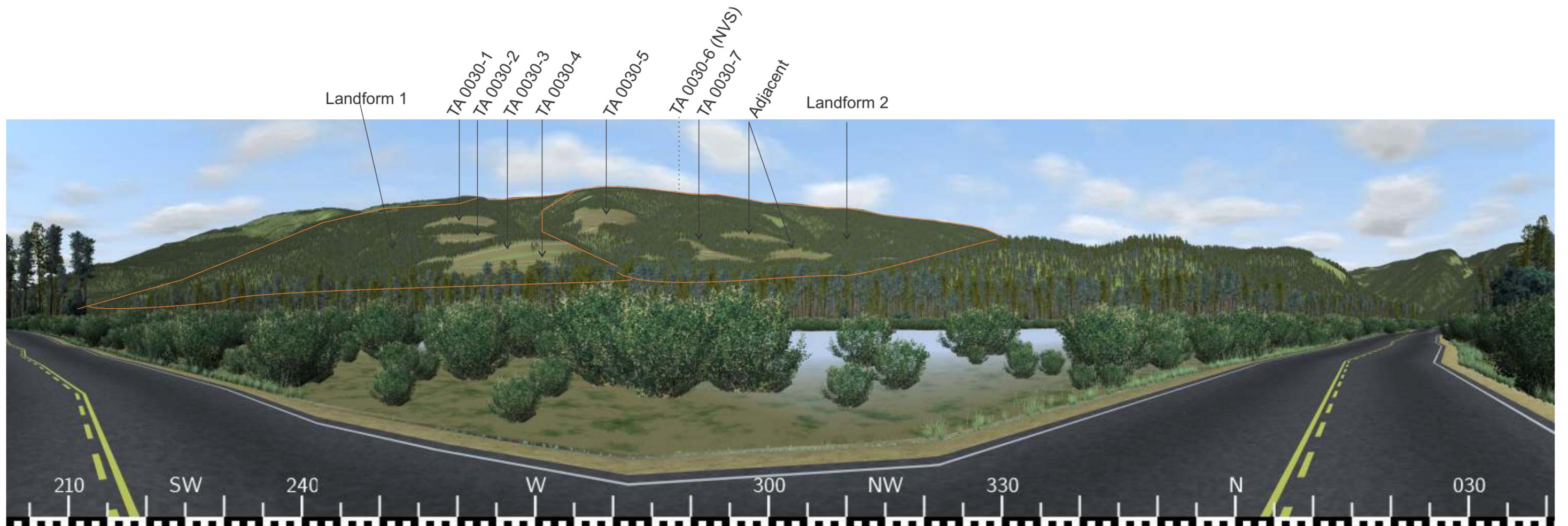


RDI Landforms / VLI Visual Sensitivity Units

Viewpoint 1720 Percent Alteration and Visual Force Analysis



— Landform Delineation



— Landform Delineation

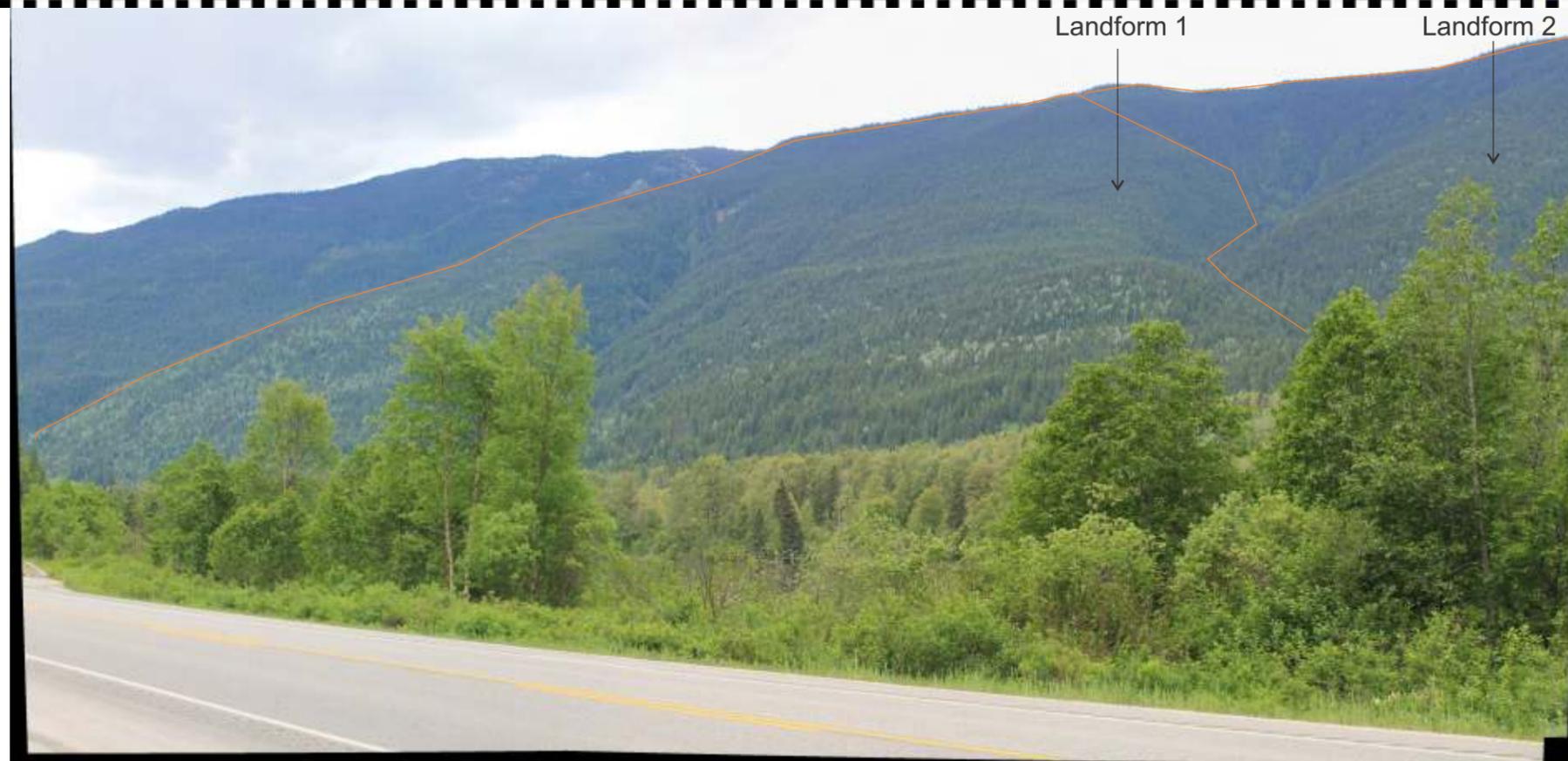
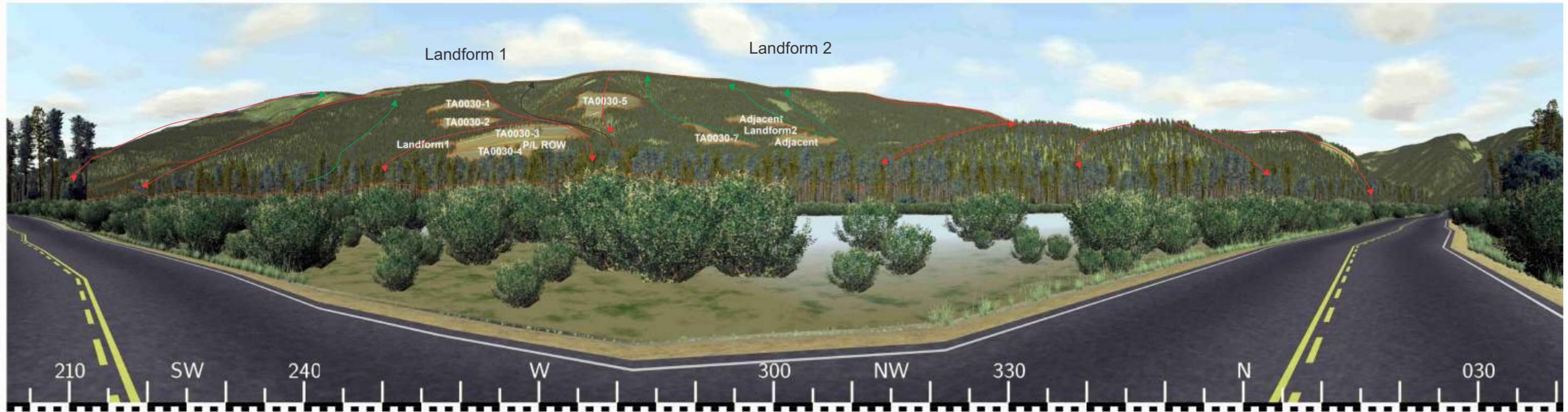


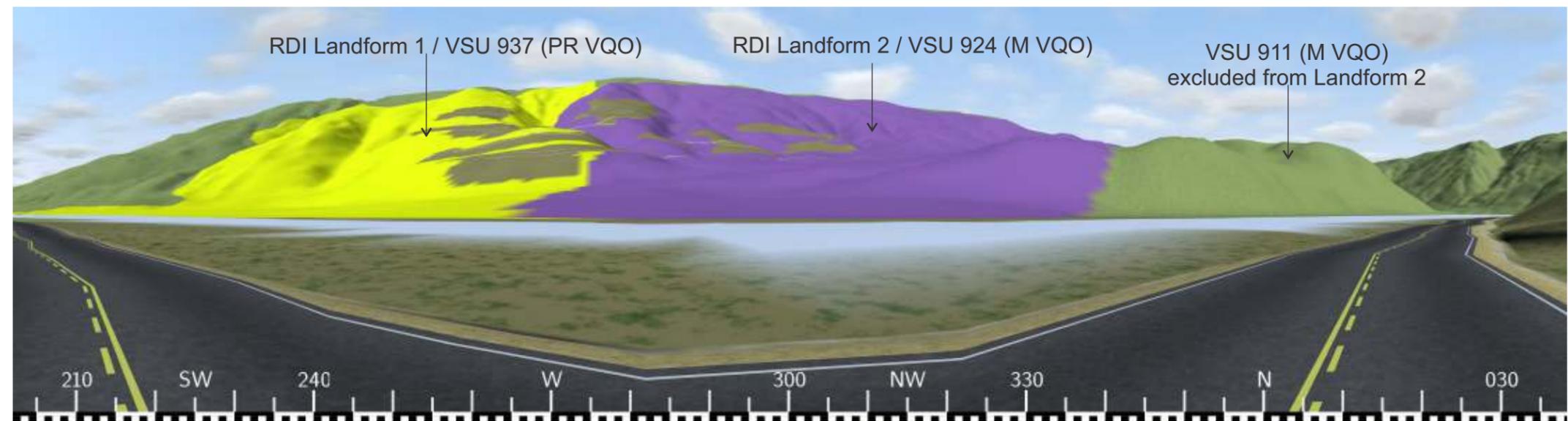
Photo by Ches Clem, BCTS 2018

Kinder Morgan Viewpoint 2900m North of Bridge



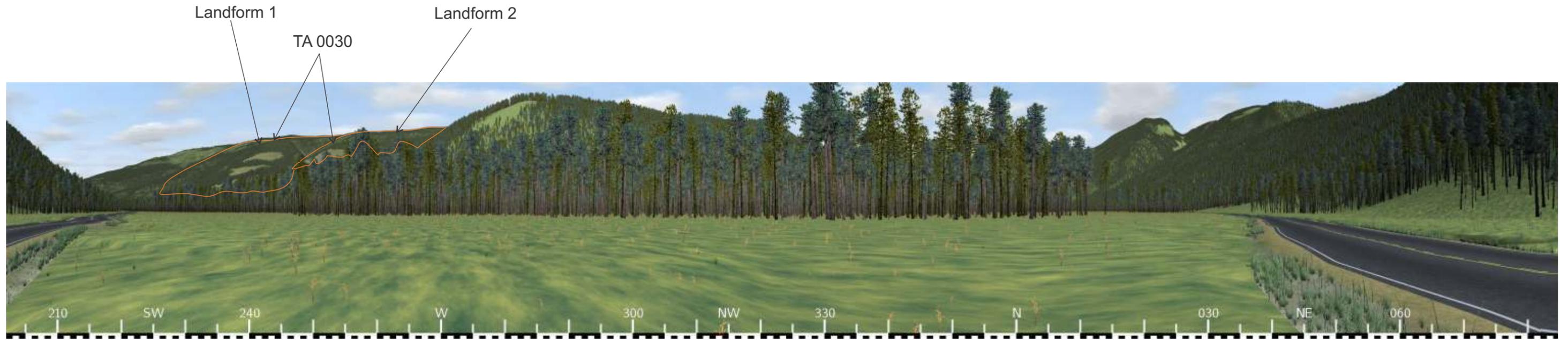
→ Visual Force Convexity
→ Visual Force Concavity

Percent Alteration Kinder Morgan VP		
NAME_1	AREA_Pers	% Alt
Landform1	341074	
TA0030-1	4244	1.24%
TA0030-2	3859	1.13%
TA0030-3	11126	3.26%
TA0030-4	4091	1.20%
P/L ROW	3621	1.06%
Sum Alt	26941	7.90%
Landform2	307601	
TA0030-5	9594	3.12%
TA0030-7	4091	1.33%
Adjacent	2874	0.93%
Adjacent	3325	1.08%
Sum Alt	19884	6.46%



RDI Landforms / VLI Visual Sensitivity Units

Landform 1 Percent Alteration includes 1% from Powerline ROW.
 Combination of blocks 3 and 4 with ROW is 5.52% on their own.
 These 2 cutblocks could benefit from some leave patches
 to reduce scale and apparency.



Viewpoint 3780m North of Bridge