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Introduction and Executive Summary

Malksope Inlet is located 12 km north of Kyuquot on Vancouver Island's northwest coast. Malksope IR7 is at the head of the inlet, and Upsowis IR 6 is at its mouth. Recreational activity is, reportedly, mainly at the entrance, and at Bunsby Islands Marine Provincial Park directly opposite to the inlet, which is south of Brooks Peninsula.

Malksope Inlet has steep-sided hilly-to-mountainous terrain reaching from 600m to 900m over its 6 km length. Blocks 327 and 327A are located along the southern sidehills of Malksope Inlet, within VSU 257. VSU 257, and the neighbouring, more prominent, VSU 2174 towards the mouth of the inlet, have been assigned a VQO of Partial Retention. At the outer end lays VSU 268 which has a Retention VQO. This unit includes Mt. Paxton made famous by the National Geographic cover back in 1992. Only the north-east side of that VSU with its distinct peak is seen from the inlet, along with a visible, but unclassified, area not captured in the Visual Landscape Inventory. VSU 2174 has one central peak and one half-shared with VSU 257. VSU 257 has one primary hill, a back hill, and the hill half-shared with VSU 2157. Low-laying unclassified area along the head of the inlet near the Malksope River was added to VSU 257 for analysis purposes. A VSU further up Malksope River - VSU 252 also forms part of the viewshed, along with VSU 2145 in the background.

Cutblocks CHM 327 and CHM 327A are located in VSU 268 along the inner part of the inlet's south side. The blocks are generally angled outwards down the inlet and will be variably visible while boating along the inlet. They will be seen in conjunction with several new (ENG) blocks in VSUs 2174 and 268 and intervening areas marked as not visually sensitive but seen from the viewpoints, recent harvesting not yet visually greened-up (nonVEG), satisfactorily restocked (SR) areas nearly or fully achieving VEG, and fully greened-up areas (VEG). For this analysis, all SR blocks were considered still to be nonVEG. Forthcoming photographic analysis will be used to determine the adequacy of VEG conditions.

The inlet provides a continous array of viewing opportunities, with the landscape continually changing in the view. With no fixed viewpoints identified, ten transitory viewpoints were selected for analysis along middle of the inlet from the head to its mouth. Viewpoints 0, 1, 1A, 2 and 3, near the head of Malksope Inlet, offer the most direct views towards CHM 327 and CHM 327A. Viewpoint 0 and 1 at the extreme head offer less viewing opportunity as the blocks are partially obscured. Viewpoints 4, 5, 6, and 6A are closer to the mouth of the inlet offer less visible alteration from the 2 blocks, and less total alteration in view, when considered together with the adjacent VSU 2174. Viewpoint 7 and 8 provide no viewing opportunity towards CHM 327 and CHM 327A, though some glimpses of CHM 327 are afforded north of VP7 near the north shore, and further west towards the Bunsbys, where not obscured by the intervening small islets within the inlet. These outer viewpoints also bring some recent and engineered blocks into view in VSUs 2174 and 268 and the unclassified area between them.

The view from each transitory viewpoint (from 0 to 6 and 6A) was simulated using Visual Nature Studio built from data provided by Interfor (10m contours, forest heights, and roads. Percent alteration of alteration in each view was determined by digitizing each VSU and alteration in the perspective rendered viewpoint image and calculating the percent contributions within VSU 257 alone and within VSU 257 and VSU 2174 combined in order to consider the cumulative effects along the corridor as would be experienced by boaters. The results for each viewpoint are presented in the image sheets provided in this report. A summary of percent alteration in each of the transitional viewpoints for the single and combined VSUs is presented on the final page of the report. The results for VSU 257 alone, for both existing and new alteration, showed that the Partial Retention VQO of 7% maximum would be exceeded from 7 of the 9 viewpoints, reaching 15% from two viewpoints. The results for VSU are indicative of the 10% planimetric area for the 2 blocks when considered relative to the planimetric area of the VSU (635 ha). Steep slopes can cause the 1:1 plan-to-perspective relationship which is in evidence in the inlet landscapes. The percent alteration tends to increase when progressing down the inlet. This effect was predictable due to increasing perspective foreshortening, making the measured VSU appear smaller. The VSU appears largest and alteration least at VP 1. Viewing can occur for up to 500 m east of VP1 to the east shore at the head of the inlet near IR 7 and the Malksope River offering even broader views of the VSU and therefore relatively less visible alteration, well within the PR limits for VSU 257 (see VP 0 image sheet), and with CHM 327 (the upper block) now fully hidden.

If the percent alteration measure was restricted to the single VSU or landform, the new blocks would clearly exceed the VQO, exceeding the VQO from all but 2 viewpoints (VP 0 and VP 1) and no further harvesting would likely occur. When VSUs 257 and 2174 were combined (for a total width of 6 km), as they might be experienced while moving up the inlet without any fixed viewpoints, 6 of 9 transitory viewpoints will achieve Partial Retention, and from those exceeding the VQO, they exceed by 0.5%, 2.5% and 1.3% in perspective from viewpoints VP1a, VP2, and VP3 respectively. These viewpoints are in the upper end of the inlet where VSU 2174 makes less of a contribution. Although the landforms are segmented as 3 peaks within the 2 VSUs, divisions become less distinct towards the lower half of the inlet and at its mouth as viewing becomes more oblique, forming overall a fairly cohesive visual unit and viewing experience which continually change along the way. It is considered that the combined VSU approach is appropriate given the predominance of VSU 2174 relative to reported user concentrations keeping to the mouth of the inlet and further out at the Bunsby Islands. An averaging of the percent alteration for the combined approach across the viewpoints keeps the average within Partial Retention (5.75%). This figure will be less if/when some of SR blocks are deemed to meet VEG. Caution: FREP audit and C&E procedures could possibly base their determinations on the individual hills within the VSUs as the measurement "landforms", despite the viewer-based logic expressed in the combined approach.

> Malksope Inlet Visual Assessment and Design Recommendation RDI Resource Design Inc 2013 Third Draft

The next levels of analysis are design quality (including visual force) and verbal definition. The steep, incised landscape provides very strong visual forces along the south side of Malksope Inlet. These invite a bolder pattern of alteration and appear to have been utilized by, and obviously guided, the layout of CHM 327 and 327A, as well as past and other engineered blocks. The two main blocks are oriented down the inlet. The original angularity at the base CHM 327A was reduced with a leave patch, suggested by RDI and refined by IFP, following a lower road. The before and after effect of this change is presented from each viewpoint in the report (VPs 1 to 6A). While dominant in the face-on views towards VS2174U 257, the blocks become subordinate when the full south-side landform is taken into consideration (VSUs 257 and 2174 combined), particularly from down-inlet viewpoints, using the following FREP description of Partial Retention:

PR - "easy to see, natural appearing, not rectangular". Range 1.5% to 7.0% in perspective view. M - "very easy to see, large in scale, natural appearing, or small to medium in scale but with some angular characteristics". Range 7.1% to 18% in perspective view.

Note: visible contribution of existing blocks subject to evaluation of photography (forthcoming).

Other existing nonVEG blocks exhibit good responses to the strong visual forces, and contain leave patches which contribute to good design and reduce scale.

The VIA Summary Table follows.



Visual Impact Assessment Summary Table

	Dis	strict: Cam	pbell River	•	Lic	cens	see: I	nternatio	onal Fo	rest Pr	odu	cts L	td.			
Licence	Chamis	CP# &	CHM 327	Мар	Γ	092	L01	Proposed	d year	2013		Prop	osed	Silv	CC	with
Number		BLK #, or	СНМ	Reference		3		of Harves	st			Syst	em		lea	ıve
		RP#:	327A	#:											l	
Type of Pro	oposed Alte	ration		•				Cutblock	s, roads							
(e.g. Cutble	ock, Road o	r Pipeline R/V	V, Oil lease, e	etc.)												
VISUAL LA	NDSCAPE I	NVENTORY L	ABEL (old)	VLU#:			VSR:		VAC:		ΕV	C:		EVQC):	
VISUAL LA	ANDSCAPE I	NVENTORY L	ABEL	VSU#:	25	7	VSC:		VAC:		EV	C:		EVQC):	PR
DOES EVO	EXCEED T	HE ESTABLIS	SHED VQO?	PI	R R				J		l	Yes			N	lo
Number 8		EWING CO Viewpoints		n the 9		wpo pelov										
Indicate \	√iewpoint ∣	Importance.				•		y transitory y for greater		Major wa	iterwa	y VPs	7-8 (m	outh of	Inlet)	. See
Viewing [Distance (F	g, Mg or B	g.)	M (F		-1km;	; MG=1	km-8km)								

				VQO Achiev Alteration*	ement - Total
VP	Latitude	Longitude	Mapsheet	VSU 257	VSUs 257, 2174
0	50d 8' 9.846" N	127d 25' 19.330" W	92L013	Υ	Υ
1	50d 8' 1.241" N	127d 25' 34.491" W	92L013	Υ	Υ
1 A	50d 7' 53.065" N	127d 25' 58.466" W	92L013	N	N
2	50d 7' 47.388" N	127d 26' 26.538" W	92L013	N	N
3	50d 7' 44.112" N	127d 27' 10.867" W	92L013	N	N
4	50d 7' 35.716" N	127d 27' 54.117" W	92L013	N	Υ
5	50d 7' 25.800" N	127d 28' 19.332" W	92L013	N	Υ
6A	50d 7' 22.407" N	127d 28' 56.985" W	92L013	N	Υ
6	50d 7' 16.136" N	127d 28' 41.143" W	92L013	Υ	Υ
7	50d 6' 42.749" N	127d 29' 28.362" W	92L013	N/A	N/A
8	50d 6' 17.887" N	127d 29' 34.541" W	92L013	N/A	N/A

^{*}based mainly on percent alteration due to complexity of existing and new blocks and deep shading - see report chart on final page for totals of percent alteration by viewpoint.

ASSESSING BASIC VQO DEFINITION

Does the proposed alteration, in combination with any existing Non-Veg alterations, achieve the basic VQO definition for the established VQO from each of the identified viewpoints? Yes and No (see FPPR definition below and table above (based on percent alteration). See Executive Summary for greater details.

The elements of design incorporated into block planning and engineering meet the definition of PR as per FPPR S 1.1. The principal blocks are within VSU 257, exposed by their position along the length of the inlet. The blocks have an undulating design conforming to the lines of force. A leave area was added in CHM 327A to break lower angularity and strengthen visual forces.

"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 (FPPR S 1.1).

If applicable state reasons why the proposal does not achieve the basic definition.

The blocks, together with nonVEG alteration tend exceed the VQO in VSU 257, but total alteration is more in line when considered together with VSU 2174. The north-facing aspect increases VAC, including a reduction in contrast

	ieet?		55 V C				isting Non-VEG			
N/A □ or	P 🗆	R □	PR X□ (see	M X □ chart above)	MM 🗆	EM 🗆				
	VISUAL DES									
•	•	on(s) exhibit ele	•		•		YES X□ NO □			
Does the pro	posed alteration	ons respond to	the lines of fo	orce analysis	?		YES X□ NO □			
f No why?										
Describe the	design princip	les and practic	es used to bl	end the prop	osed alteration	(s) with the land	dscape			
Describe the design principles and practices used to blend the proposed alteration(s) with the landscape (e.g. edge treatment & feathering, irregular boundaries, leave trees/patches, etc.) Irregular boundaries follow lines of										
							aries follow lines of			
		hering, irregula CHM 327A to					aries follow lines of			
force; leave p	patch added in	CHM 327A to	strengthen lir	nes of force (see map and i	mage sheets).	aries follow lines of			
force; leave p	patch added in		strengthen lir	nes of force (see map and i	mage sheets).	aries follow lines of			
force; leave p	patch added in sting human m	CHM 327A to	strengthen lirs	nes of force (unit showin	see map and i	mage sheets).	aries follow lines of EG to be assessed			

calculations) (See Appendix 4 for example of calculation)

See individual image sheets for percent alteration calculation and summary chart on last page of the report. Also, See Executive Summary for greater details.

Scale of Alteration - Interfor Final Leave Patch Addenda - Conclusions The leave patch, totalling 2.4 ha in area, resulted in a small reduction in percent alteration but a strong improvement in design.

FOREGROUND ALTERATIONS AND SCREEN DESIGN

years? (i.e. all blocks proposed by the same or different licensees)

Is the proposed alteration within 1 kilometre of the viewing locations?	YES X 🗆	both	<u> </u>	
Does vegetative or landform screening exist?	YES X□		NO 🗆	
If yes, what type: Deciduous□ Coniferous X□ Mixed Forest □ Landfo	orm X□			
Would the screen hide proposed operations?	YES X□	both	X□	
Is vegetative screen designed properly ie responds to lines of force,				
shape & scale and remains a viable unit for future removal?	YES X	NO □	N/A □	
Is vegetative screen expected to be windfirm?	YES X	NO 🗆	N/A	
It alteration would not be screened or only partially screened, describe	e the actions pror	osed to red	duce the v	isual
If alteration would not be screened or only partially screened, describe impact in the immediate foreground (e.g. landing location, roadside clean-up, etc. The screening is in place along the inlet - not as a direct part of block design		osed to red	duce the v	isual
impact in the immediate foreground (e.g. landing location, roadside clean-up, etc.		osed to red	duce the v	isual
impact in the immediate foreground (e.g. landing location, roadside clean-up, etc. The screening is in place along the inlet - not as a direct part of block design)			isual
impact in the immediate foreground (e.g. landing location, roadside clean-up, etc. The screening is in place along the inlet - not as a direct part of block design ADDITIONAL CONSIDERATIONS Does the EVC in adjacent units exceed the established VQO for those	e units and how v			isual
impact in the immediate foreground (e.g. landing location, roadside clean-up, etc. The screening is in place along the inlet - not as a direct part of block design ADDITIONAL CONSIDERATIONS Does the EVC in adjacent units exceed the established VQO for those	e units and how v	ould this a		isual

Has this VIA submission incorporated all known alterations proposed within the Visual Sensitivity Unit for the next 5

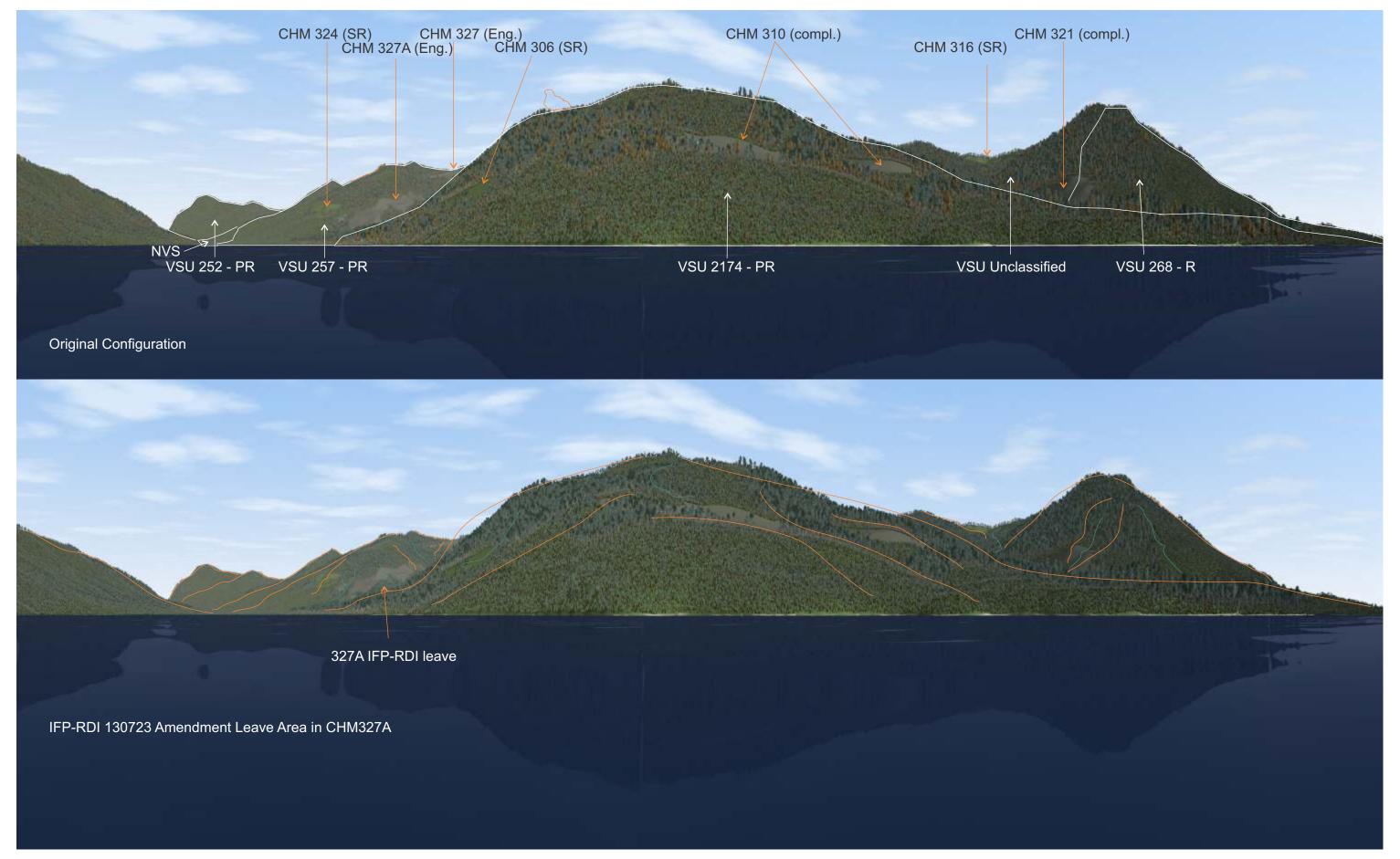
Comments:

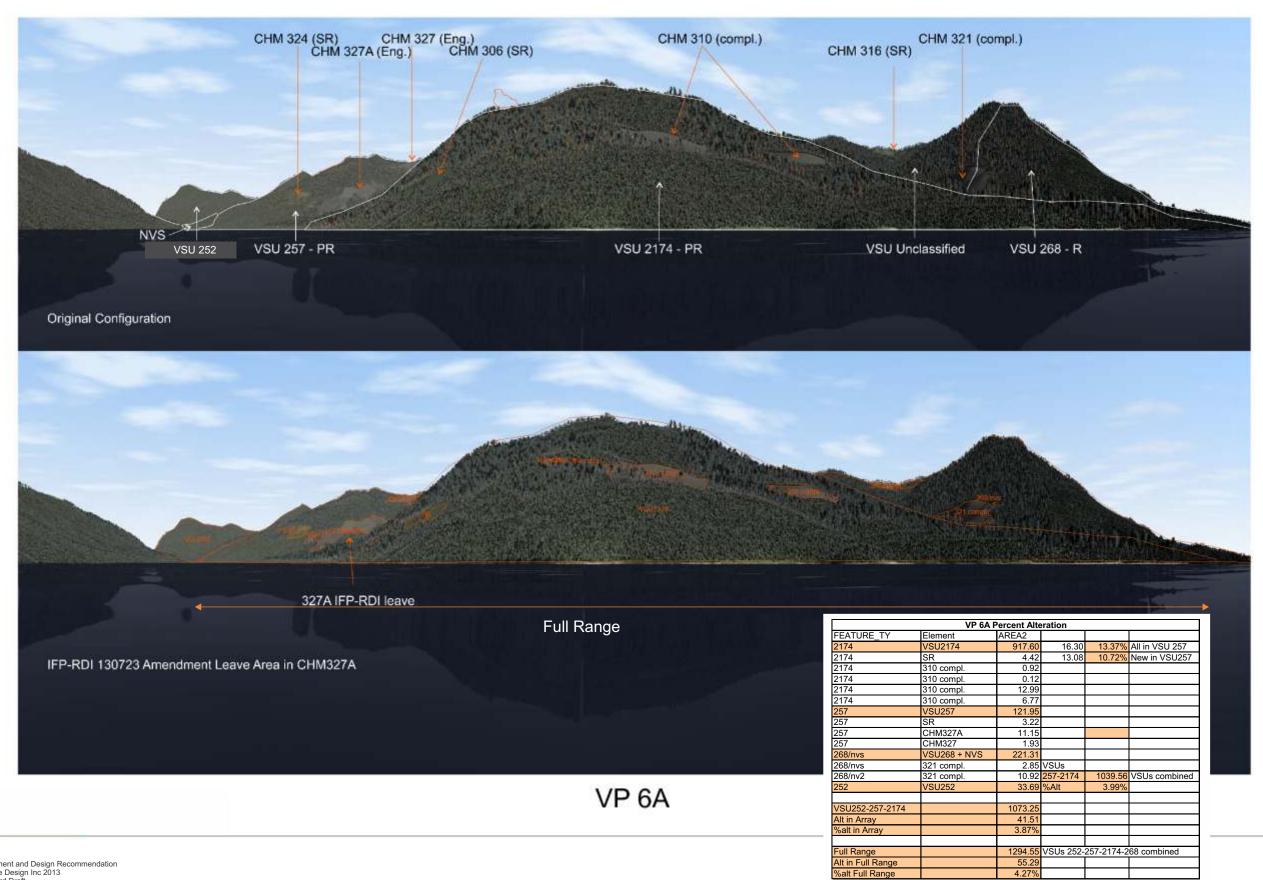
Completed by: Ken B. Fairhurst, R.P.F.

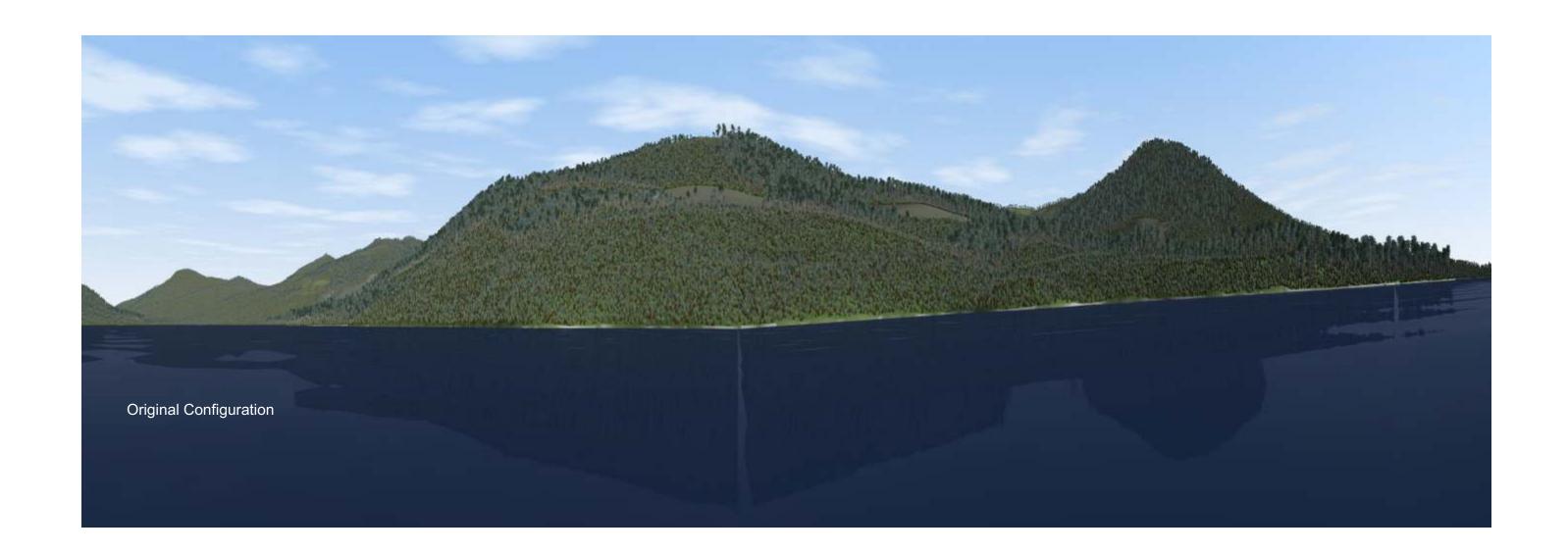
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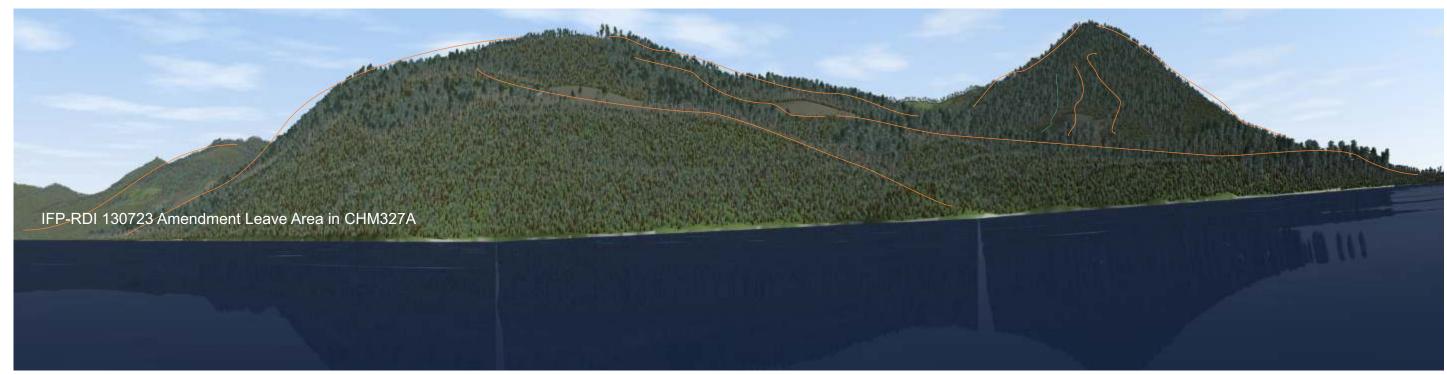
YES X

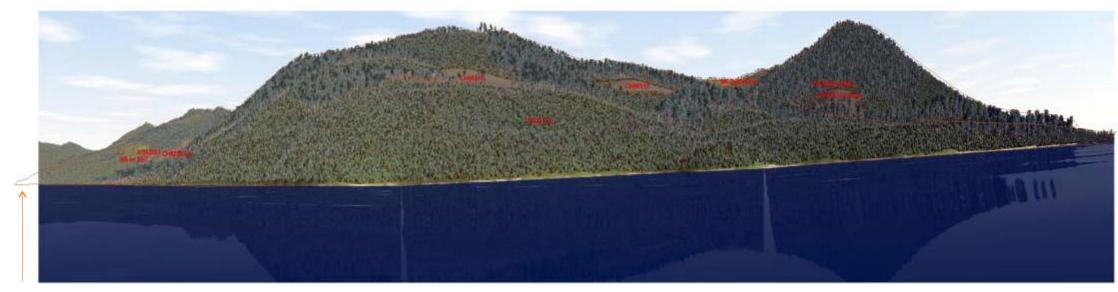
NO□







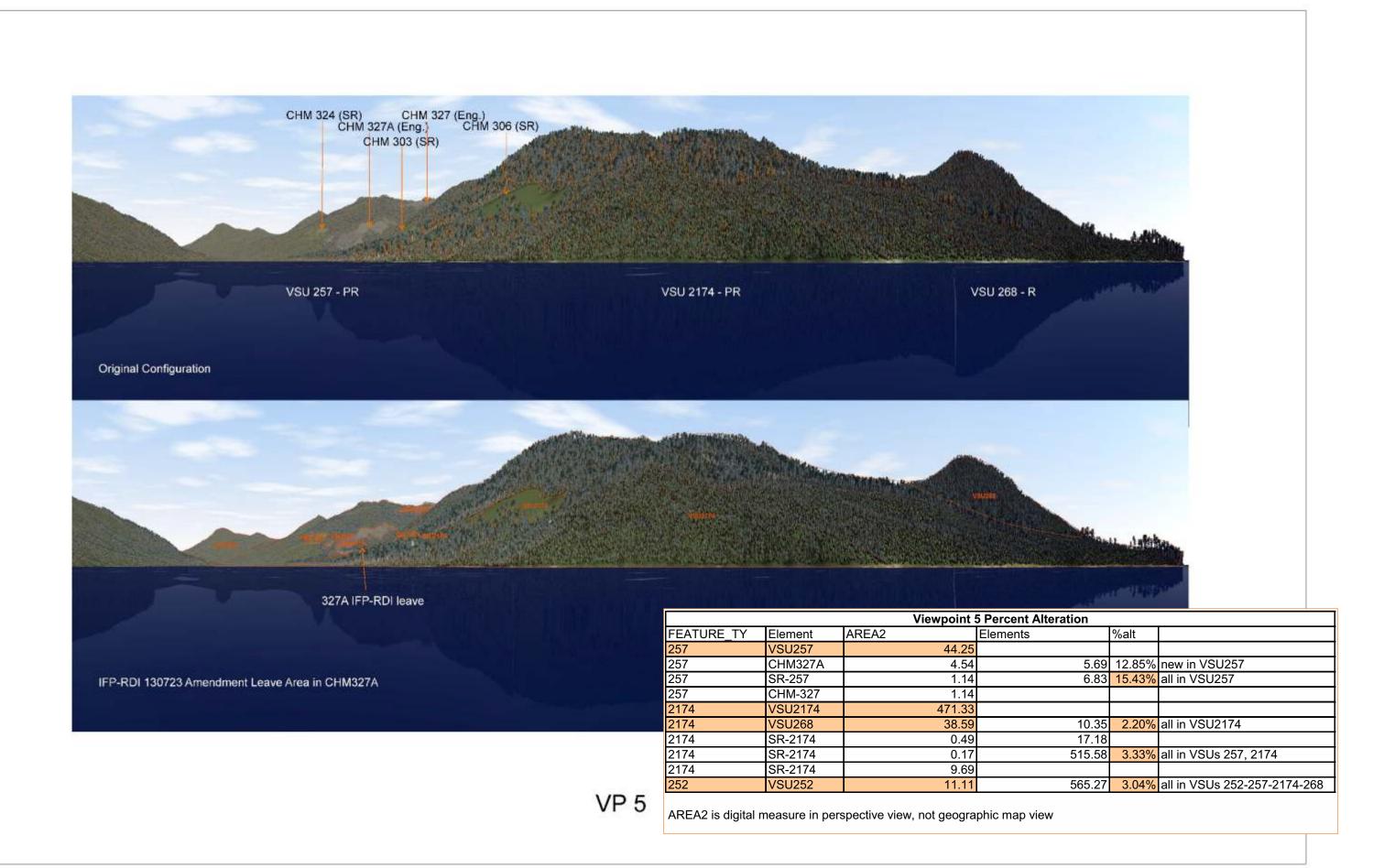


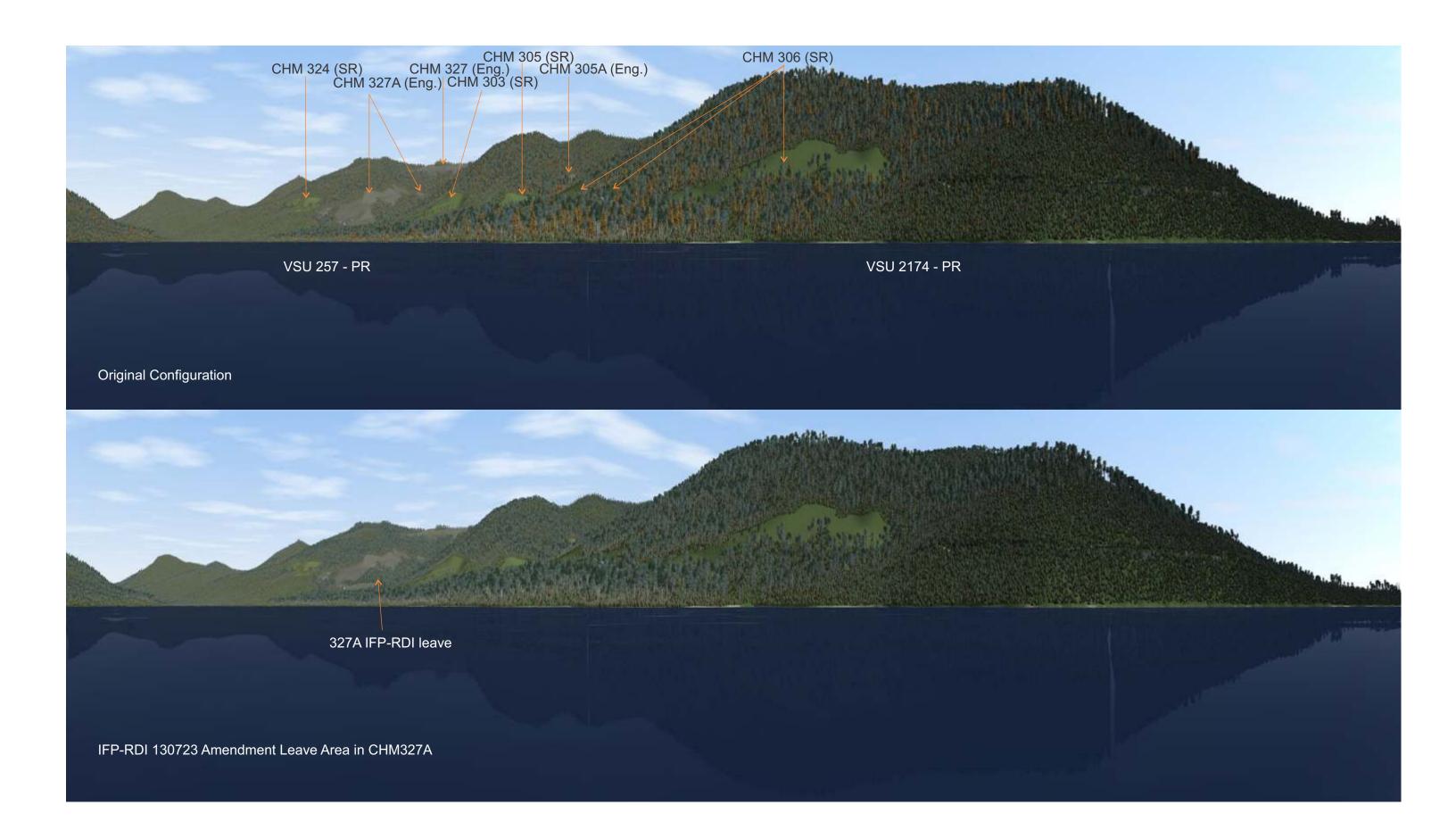


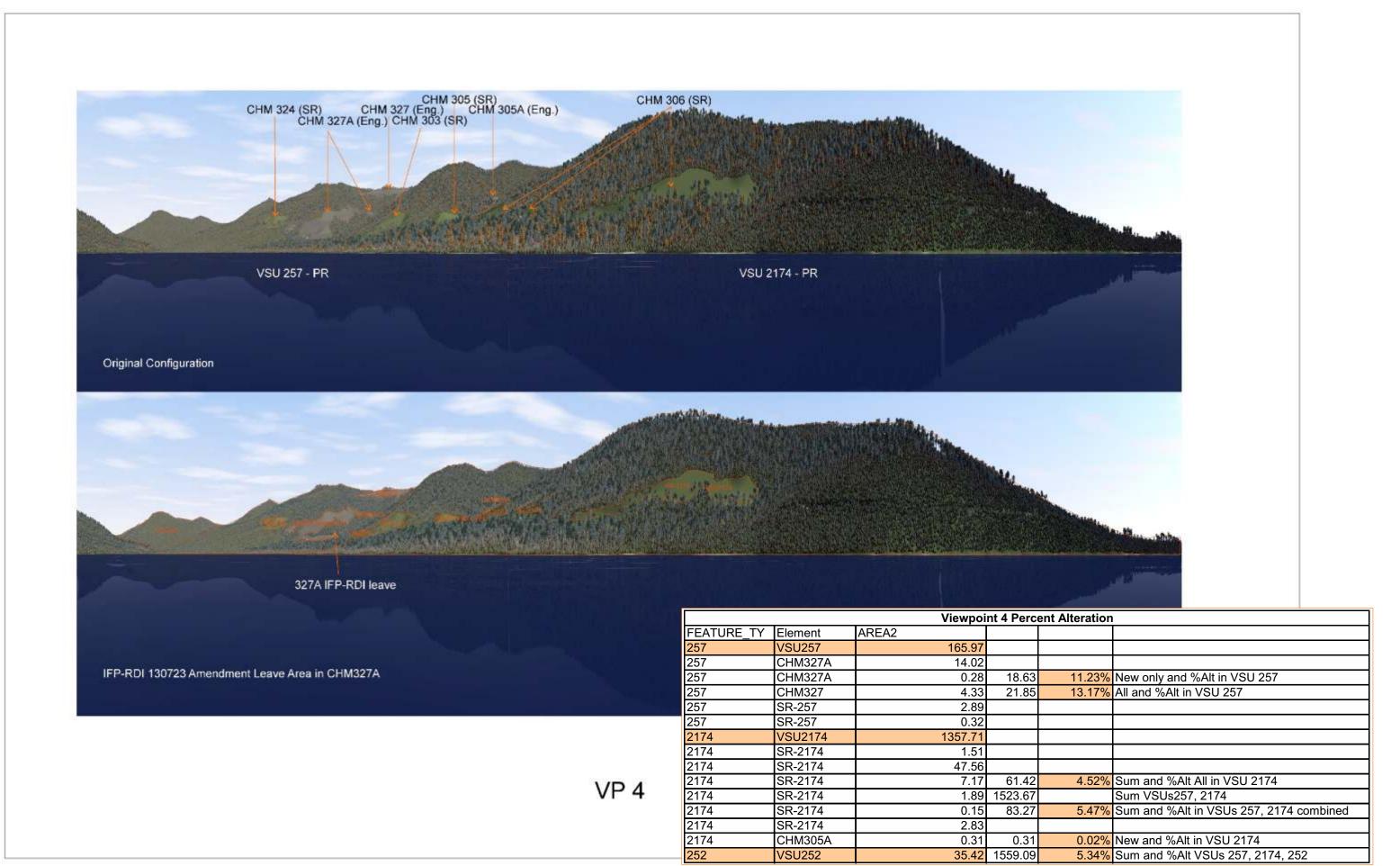
Full landform shown in upper image, previous page

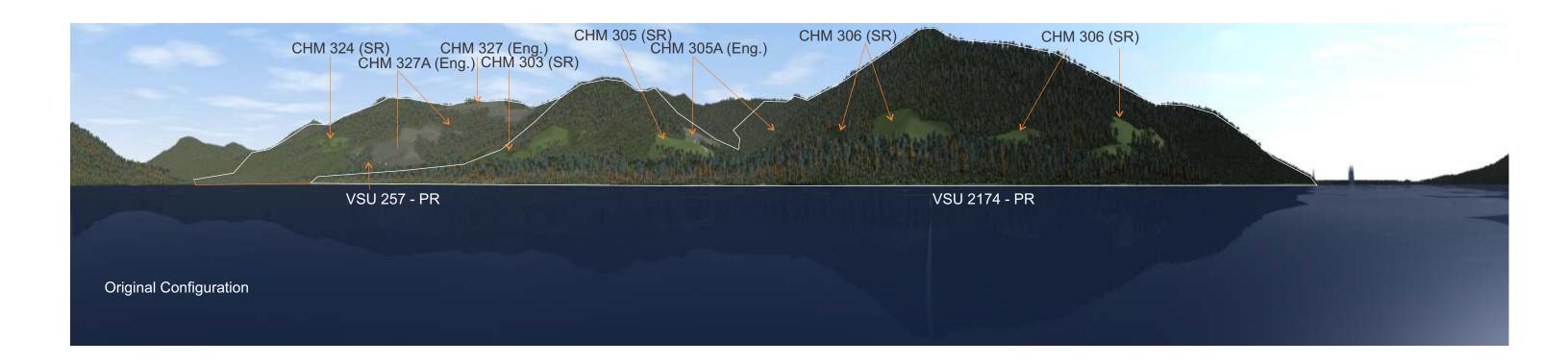
		Viewpoint 6 Percent A	Alteration		
FEATURE_TY	Element	AREA2			
257	VSU257	47.34		4.93%	new in VSU257
257	CHM327A	2.33	3.88	8.20%	all in VSU257
257	SR in 257	1.55			
2174	VSU2174	542.91			
2174	CHM310	6.89	10.91	2.01%	all in VSU2174
2174	CHM310	4.02			
268	VSU268+UNCL.	103.65			
268	SR-268+uncl.	1.50	5.80	5.59%	all in VSU268+uncl.
268	CHM321compl.	4.30			
			590.25380996100		Sum VSUs 274-2174
				2.24%	new in VSUs257 and 2174comb.
			14.78939853515	2.51%	all in 257+2174
			693.90616885200		Sum combo 257-2174-268
			20.58770111733	2.97%	all in range 257-2174-268

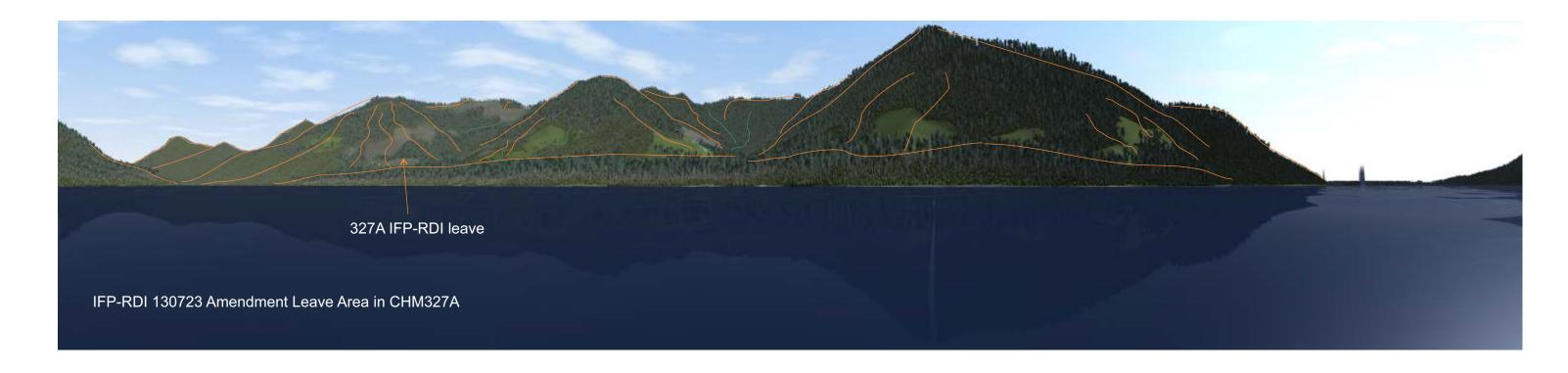


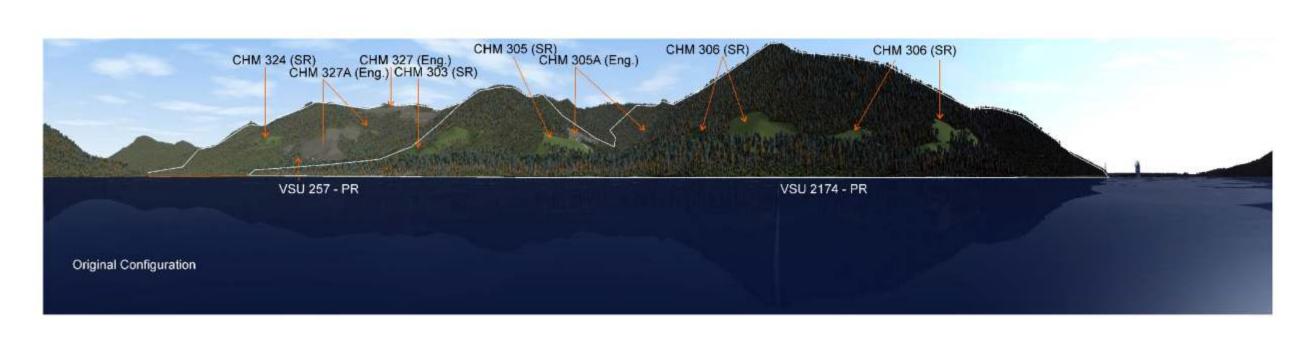


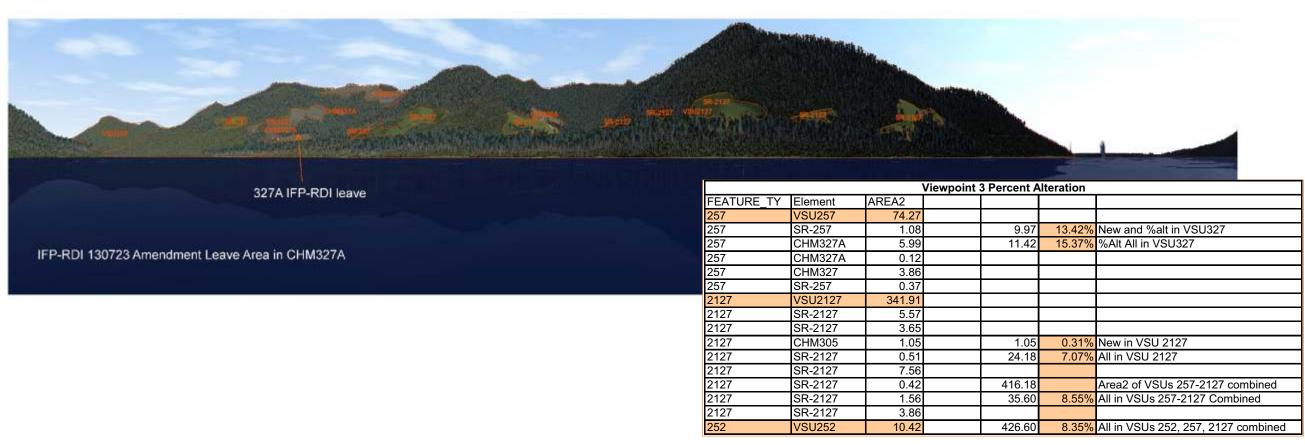






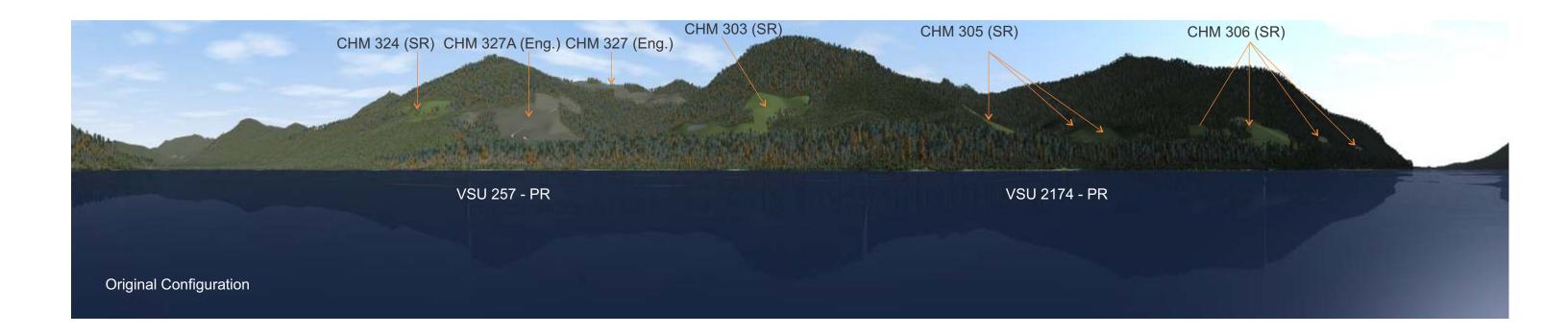




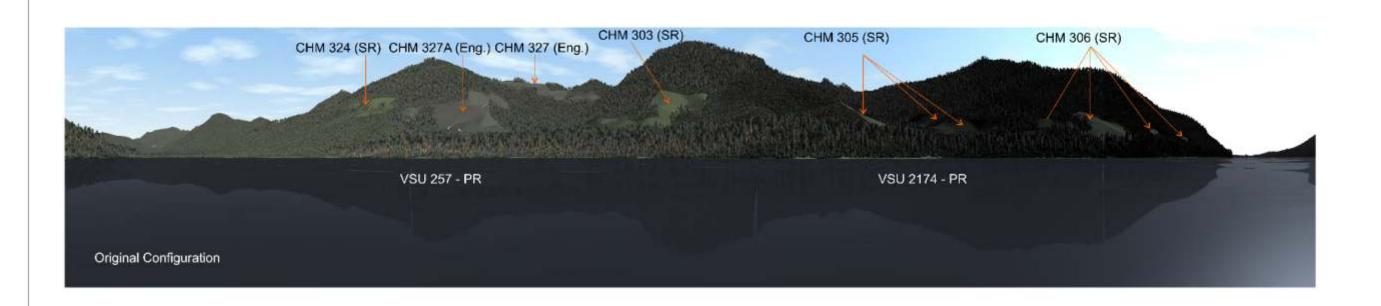


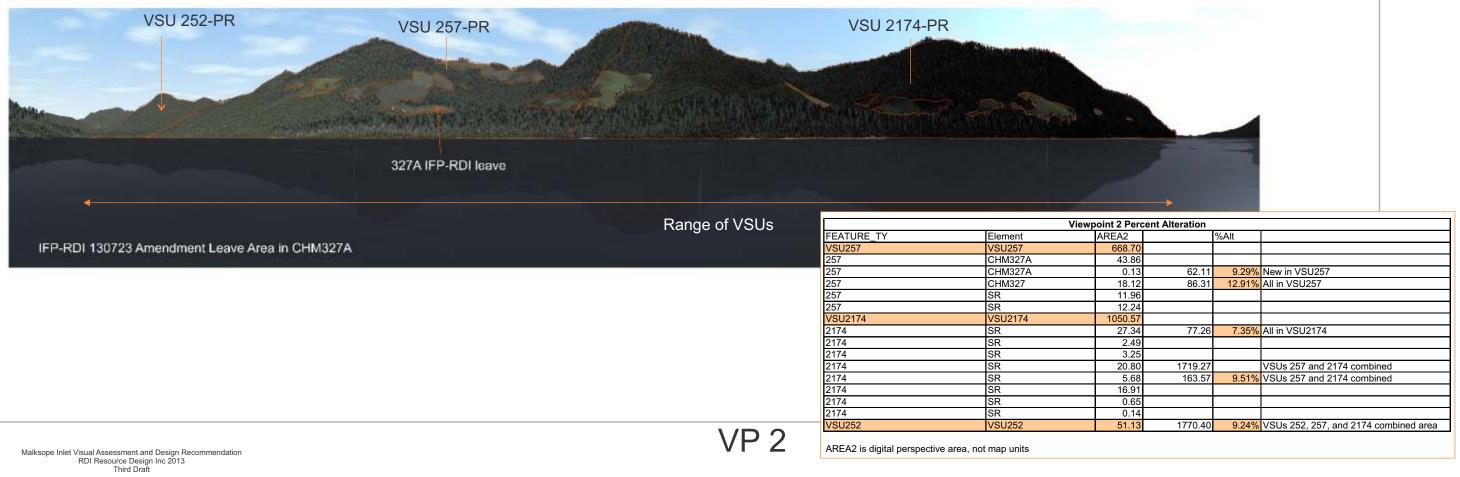
VP 3

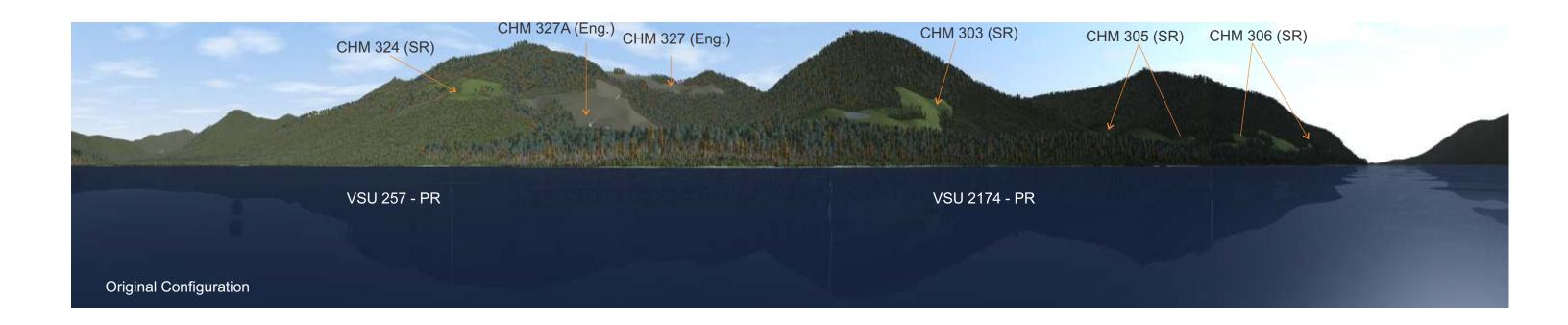
Area2 is digital measure of perspective area, not map units



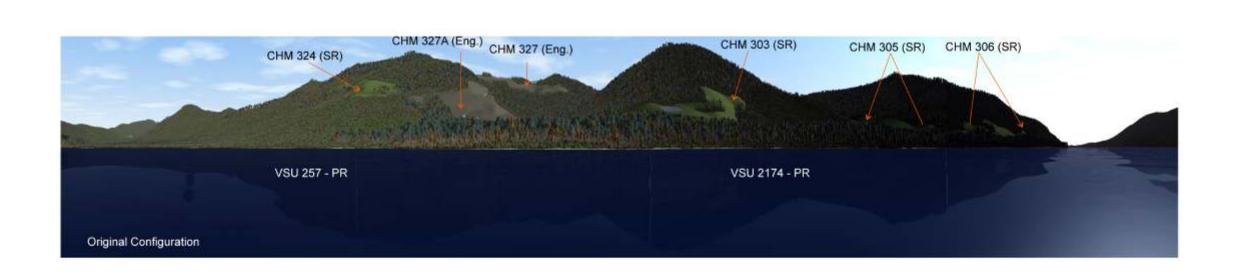








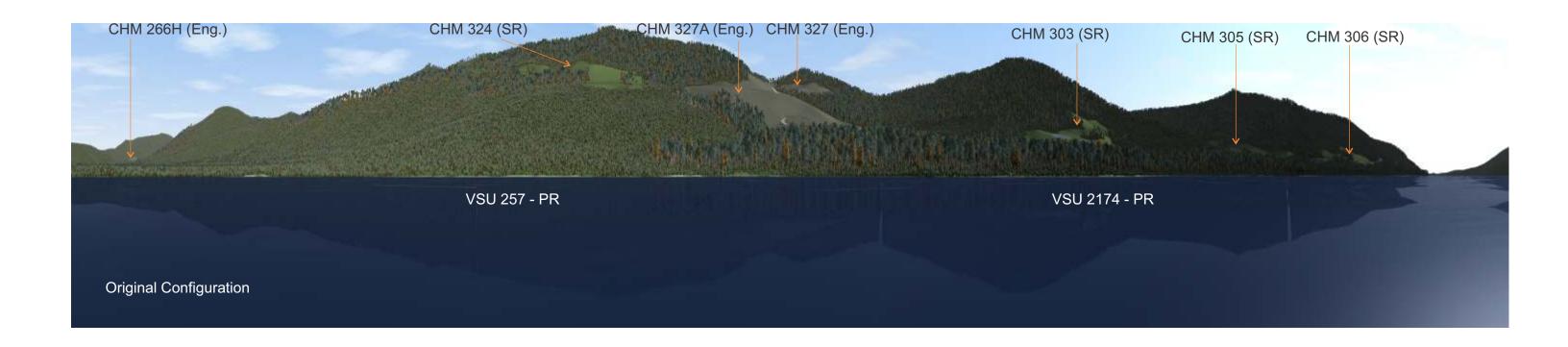


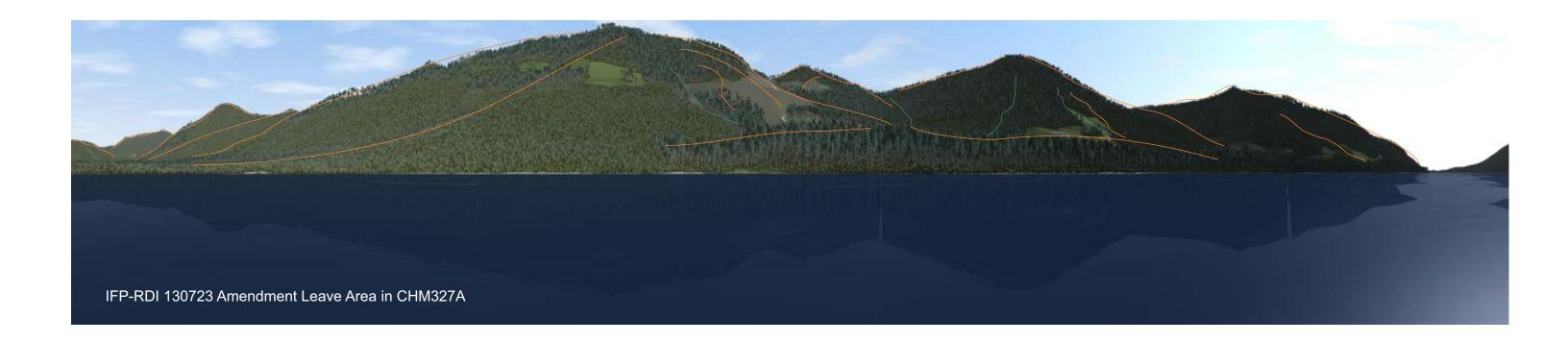


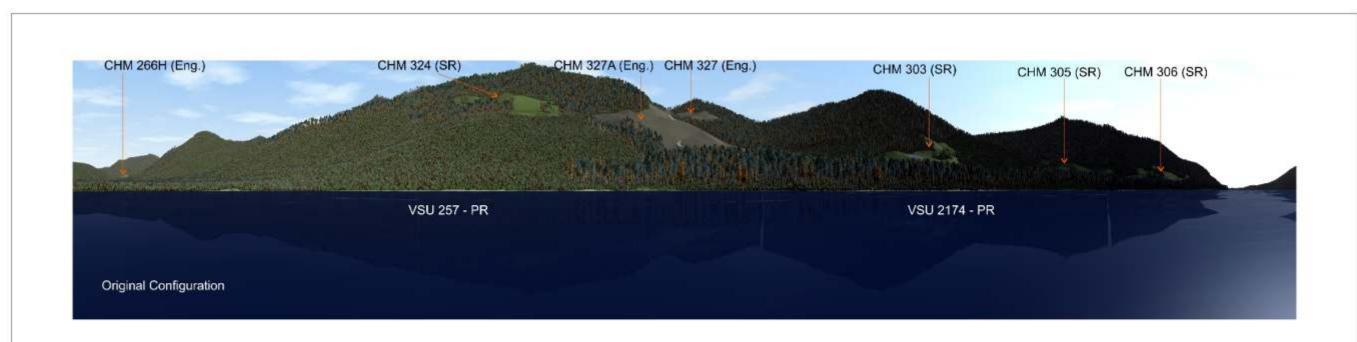


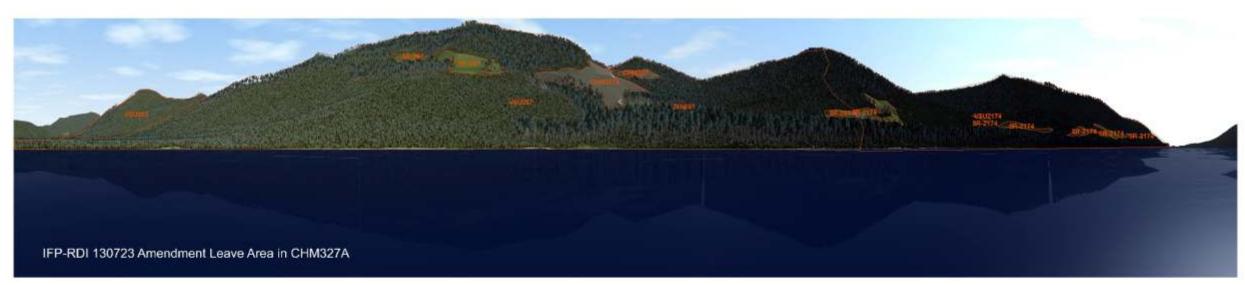
			Vie	wpoint 1A Perce	nt Alteration			
FEATURE_TY	Element	AREA2	Area2 Sum	%ALT PER vsu	Area2 Sum	VSU Area2	Combined %	
257	VSU257	233.61		VSU257				
257	SR-257	5.08	22.04	9.43%				
257	CHM327A	0.20						
257	CHM327	3.43						
257	CHM327A	10.19			33.52	438.07	7.65%	VSUs 257 & 2174
257	SR-257	3.13						
2174	VSU2174	182.42		VSU2174				
2174	SR-327	1.17	11.49	6.30%				
2174	SR-327	3.15						
2174	SR-327	0.12						
2174	SR-327	0.91						
2174	SR-327	6.14						
253	VSU253	11.97	0	0.00%	33.52	428.00	7.83%	VSUs 257, 2174, 253

VP 1A
Area2 means area in perpsective view, not geographic units



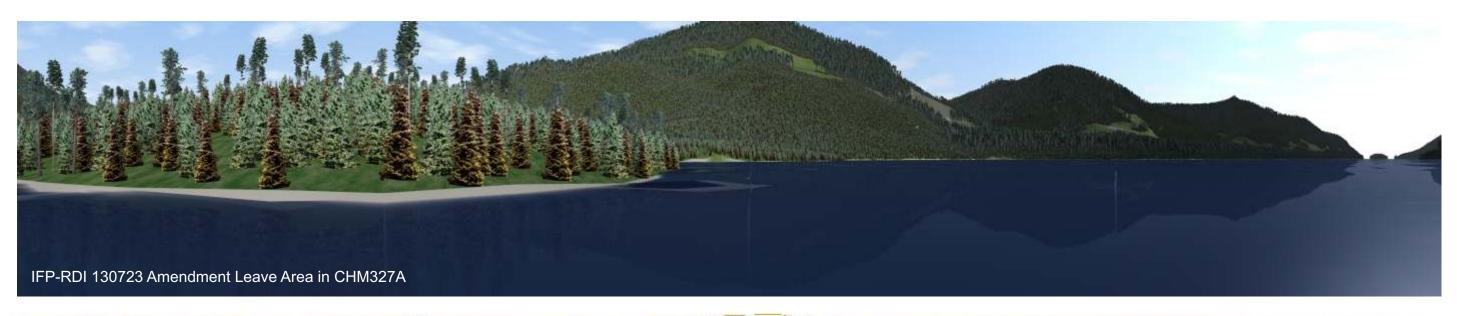


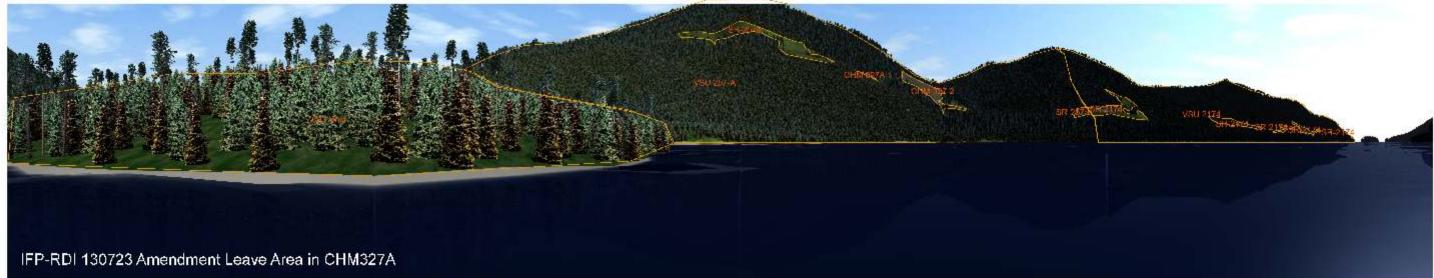




FEATURE TY	Element	AREA2	Area Sums	% Alt	%Alt Groups	
257	VSU257	8053.329465				
257	CHM327A	226.0150293	261.028633	3.24%		New VSU257
257	SR-257	105.8416492	410.2862298	5.09%		New, SR VSU257
257	CHM327	35.01360363				
257	SR-257	1.137249943				
257	SR-257	21.60477183				
257	SR-257	20.67392583				
2174	VSU2174	2350.67218				
2174	SR-2174	58.80334908	112.635301	4.79%		VSU 2174
2174	SR-2174	4.510593151				
2174	SR-2174	21.8881261				
2174	SR-2174	13.15064293	522.9215308	10404	5.03%	Sumalt VSUs 257, 2174
2174	SR-2174	14.08772295				
2174	SR-2174	0.194866794				
253	VSU253	364.4231693		10768.42	4.86%	Sumalt VSUs 257, 2174, 253

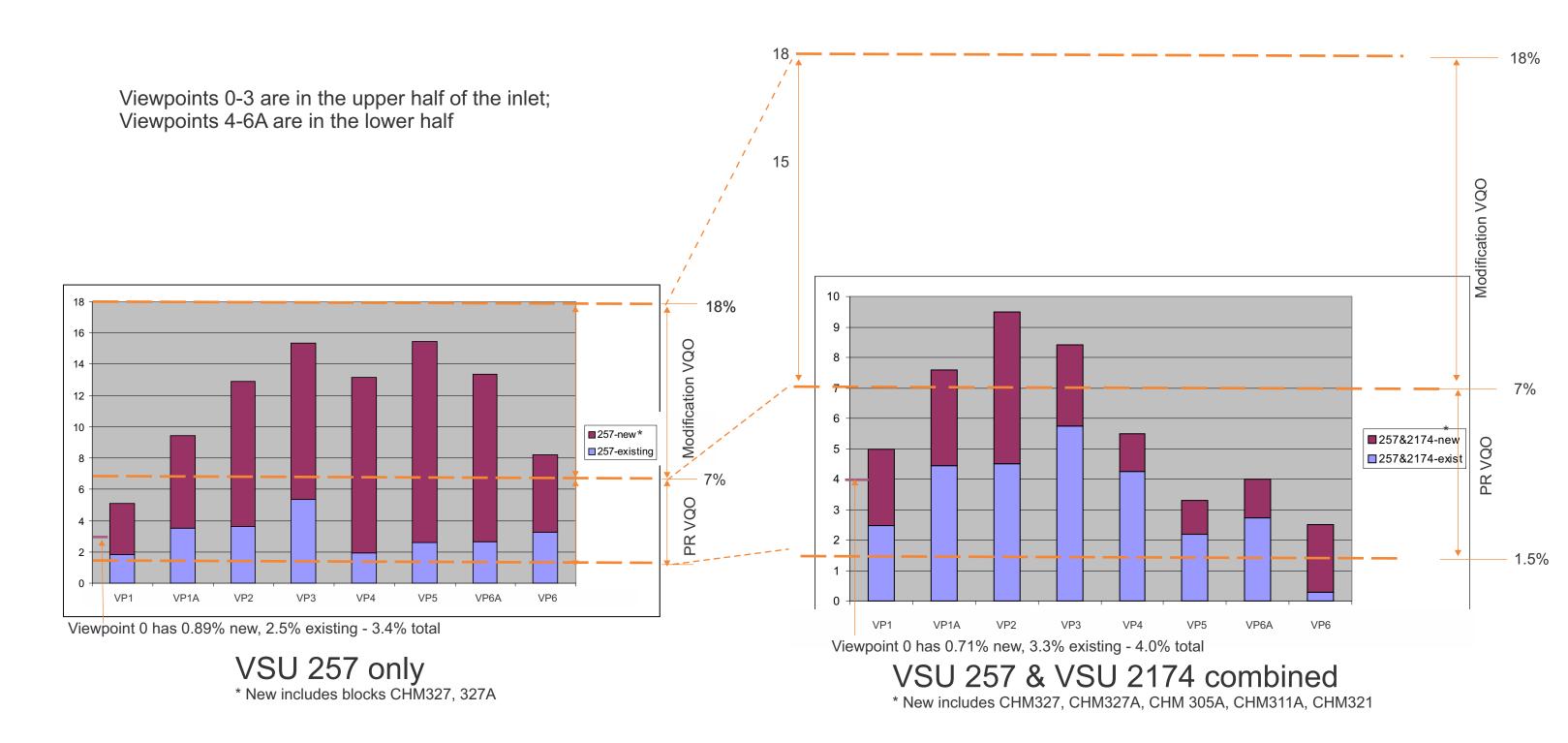
VP 1





Viewpoint 0 Percent Alteration										
Element	AREA2	SUM ALT per VSU	%Alt	SUM Alt. Comb.	Comb. VSU-Uncl.	%alt Comb.				
VSU 257	215.32									
CHM 327A-1	0.09									
CHM 327A-2	1.83	7	3.41%				VSU 257			
SR-257a	4.99		0.89%				VSU 257 New			
SR-257a	0.43		2.51%				VSU Existing			
VSU 2174	55.59									
SR-2174	2.23	3.62	6.51%				VSU 2174			
SR-2174	0.83									
SR-2174	0.21			11	270.90	4.05%	VSU 245 2174 comb.			
SR-2174	0.34			0.71%			Comb. New			
SR-2174	0.01			3.33%			Comb. Existing			
VSU-Uncl	222.09									
VSU 257 + UNCL	437.41		1.68%				VSU 257+Uncl.			
VSU 257+2174+Uncl.					708.31	1.55%	VSU 257+2174+Uncl.			

Percent Alteration in VSU 257 and VSUs 257 & 2174 Combined, by Viewpoint



PR - "easy to see, natural appearing, not rectangular". Range 1.5% to 7.0% in perspective view. M - "very easy to see, large in scale, natural appearing, or small to medium in scale but with some angular characteristics". Range 7.1% to 18% in perspective view.

Note: visible contribution of existing blocks subject to evaluation of photography (forthcoming).