



BLOCK:Z33HL

OPERATION: Nootka

TENURE:TFL19

CUTTING PERMIT: 389

MAP DATE: 16/01/2019

PRODUCED BY: Colin McKenzie



SAFETY COORDINATES: LAT: 49 59 49 / LONG: 126 56 07

Species %								<u>Net Harvest Area</u>	4.2	2300
Cw	Cy	Fd	Hw	Ba	Ss	Other	Decid	Retention Areas	0.7	
<u>31</u>	<u>0</u>	<u>22</u>	<u>47</u>	<u>-</u>	<u>0</u>	<u>0</u>	<u>0</u>	Non Merch Areas		
OG %: 100			SG %: 0		Vol/Ha: 547.6			<u>Gross Area</u>	4.9	2300

Block Features		Landing Backspar/Tailhold Temp Creek Crossing Special Mgt. Instruction See Back of Map Harv Instruct Line See Back of Map No Decking Machine Trail Harvest Instruct Poly See Back of Map		Road Constructed Road Deactivated Road Located Road Unknown Road Old Grade/Overgrown Highway Street Railway Steep Grades	
Falling Corner Falling Boundary Crown Modification Planned Block Harvest Complete (Gross) Harvest Complete (Prod)		Wildlife Tree Retention Retention Partial Retention Non-Productive Other Yarding Corridor		Cultural Features Cultural Cedar (LCC) CMT Other Archaeology Site Gov	
Harvesting Features		Road Features		Safety Features	
Pole Removal Single Tree Removal Single Tree Retention Big Tree Retention Deflection Lines		CMP Planned WBC Planned CMP Existing WBC Existing CMP/WBC Removed Bridge Planned Bridge Existing Bridge Removed		Hydro Structure Hazard Identification - See Back of Map for Specifics Hydro Line Safety Trail Hazard Line Hazard Area	



All employees, supervisors and contractors associated with these Harvest Instructions shall be fully advised of their content requirements and be aware and knowledgeable of WFP's Environmental Management Systems (EMS) and appropriate Standard Operating Procedures (SOPs).

SAFETY	ENVIRONMENTAL	GENERAL INSTRUCTIONS	BLOCK SPECIFIC INSTRUCTIONS																																																																																																															
<p>Hazard Identification: Refer to Workplace Safety Plan - Known Hazards & Controls section for description of hazards and controls in place. Any new identified permanent hazards must be reported back to WFP Planning Dept. using a Hazard Report Form.</p> <p>Identified hazards highlighted below. See map for locations.</p> <table><tr><td>1</td><td>1. Avalanche Zone</td></tr><tr><td>2</td><td>2. Blasting Zone</td></tr><tr><td>3</td><td>3. Communication Issues</td></tr><tr><td>4</td><td>4. Metal Debris/Cable</td></tr><tr><td>5</td><td>5. Danger Tree(s) / Snags</td></tr><tr><td>6</td><td>6. Karst / Cave</td></tr><tr><td>7</td><td>7. No Entry Zones</td></tr><tr><td>8</td><td>8. Powerlines</td></tr><tr><td>9</td><td>9. Loose Boulders</td></tr><tr><td>10</td><td>10. Rock bluffs</td></tr><tr><td>11</td><td>11. Rock Fall Hazard</td></tr><tr><td>12</td><td>12. Safe Work Zone ID'd</td></tr><tr><td>13</td><td>13. Sensitive Terrain</td></tr><tr><td>14</td><td>14. Sink Holes</td></tr><tr><td>15</td><td>15. Steep Grade</td></tr><tr><td>16</td><td>16. Steep Terrain</td></tr><tr><td>17</td><td>17. Windfall Areas</td></tr><tr><td>18</td><td>18. Other:</td></tr><tr><td>19</td><td>19. Overhead Hazard</td></tr><tr><td>20</td><td>20. Wildlife</td></tr><tr><td>21</td><td>21. High public use / recreation</td></tr><tr><td>22</td><td>22. Stream Hazard</td></tr></table> <p>8. Powerlines - Follow WFP "Working in Proximity to Power Lines" Safety Standard.</p> <p>16. Steep Terrain - Workers to be made aware of these areas and avoid whenever possible. Plan work accordingly.</p> <p>21. High Public Use / Recreation Fair Harbor Rd is adjacent to Drop Zones. Take appropriate measures to minimize the potential for negative interaction with the public.</p> <p>Signage: Post signage warning of operational activities and restricted access when necessary.</p> <p>Steep Grades: No Steep grades identified for block Z33HL. Before hauling commences on any road section >18%, a steep grade assessment must be conducted by a qualified supervisor. Monitor conditions continually and adjust hauling activities to suit the traction conditions (See Safety Map for Haul Restriction Sections and Refer to Attached Steep Grade Assessment for hauling limitations). In the event any additional in block hazards (temporary or permanent) are encountered/developed during harvest phases must be reported back to WFP Planning Dept.</p>	1	1. Avalanche Zone	2	2. Blasting Zone	3	3. Communication Issues	4	4. Metal Debris/Cable	5	5. Danger Tree(s) / Snags	6	6. Karst / Cave	7	7. No Entry Zones	8	8. Powerlines	9	9. Loose Boulders	10	10. Rock bluffs	11	11. Rock Fall Hazard	12	12. Safe Work Zone ID'd	13	13. Sensitive Terrain	14	14. Sink Holes	15	15. Steep Grade	16	16. Steep Terrain	17	17. Windfall Areas	18	18. Other:	19	19. Overhead Hazard	20	20. Wildlife	21	21. High public use / recreation	22	22. Stream Hazard	<p>Rainfall Shutdown Area/Station: Zeballos</p> <p>Shutdown Criteria Wet/Very Wet Zone: Activities must shut down if: The total rainfall reaches 100mm in 24 hours or less, 75mm of rain has fallen since the start of the shift and rain is continuing, or the water balance is equal to or greater than 100mm, whichever occurs first.</p> <p>Start-up Criteria Wet/Very Wet Zone: Activities may start-up when: The total rainfall is equal to or less than 50mm in 48 hours, or the water balance falls below 100mm. Soil drainage rate is 50mm in 24 hours.</p> <p>Riparian: PRIMARY OBJECTIVE: TO PROTECT WATER QUALITY - MAINTAIN STREAM BANKS AND THEIR NATURAL WATERCOURSE</p> <p>High stump non merchantable and saplings along in-block streams to provide visual reference for subsequent yarding phases. A 5 meter machine-free zone will be maintained except at designated crossings, or as required for other prescribed activity such as creek cleaning. Crossings on map are approximate and indicate that machine crossing of creek is permitted. Construct temporary crossings on streams using puncheon to protect stream banks and channel where necessary. All puncheon introduced at crossings on backspar trails shall be removed once trail is no longer required Logs will not be decked in stream channels unless bridge logs suspend the channel and support the decked logs and flow is maintained at all times. Any introduced material at crossings will be removed immediately after loading. Equipment should not be fueled or serviced within the riparian management area (RMA) of a stream, lake or wetland.</p> <table><thead><tr><th>Class</th><th>Width</th><th>RRZ (m)</th><th>RMZ (m)</th><th>RMA (m)</th></tr></thead><tbody><tr><td>S1</td><td>>20</td><td>50</td><td>20</td><td>70</td></tr><tr><td>S2</td><td>>5 ≤20</td><td>30</td><td>20</td><td>50</td></tr><tr><td>S3</td><td>1.5 ≤5</td><td>20</td><td>20</td><td>40</td></tr><tr><td>S4</td><td>< 1.5</td><td>0</td><td>30</td><td>30</td></tr><tr><td>S5</td><td>>3</td><td>0</td><td>30</td><td>30</td></tr><tr><td>S6</td><td>≤3</td><td>0</td><td>20</td><td>20</td></tr></tbody></table> <p>*Fish/Community Watershed Stream</p> <table><thead><tr><th colspan="4">STREAM PRESCRIPTIONS</th></tr><tr><th>Stream ID</th><th>Stream Class</th><th>GULLY</th><th>Riparian Management Strategies.</th></tr></thead><tbody><tr><td>1,2,3</td><td>S6</td><td>N</td><td>Inside block. Fall across and Yard across. No cleaning required.</td></tr><tr><td>A,B</td><td>S6</td><td>N</td><td>Outside block. Fall away and yard away. No cleaning required.</td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></tbody></table> <p>Debris Size: Fine = twigs, needles, leaves; V. Small = < 3'x6"; Small = < 12'x6", Large = > 12'x6".</p>	Class	Width	RRZ (m)	RMZ (m)	RMA (m)	S1	>20	50	20	70	S2	>5 ≤20	30	20	50	S3	1.5 ≤5	20	20	40	S4	< 1.5	0	30	30	S5	>3	0	30	30	S6	≤3	0	20	20	STREAM PRESCRIPTIONS				Stream ID	Stream Class	GULLY	Riparian Management Strategies.	1,2,3	S6	N	Inside block. Fall across and Yard across. No cleaning required.	A,B	S6	N	Outside block. Fall away and yard away. No cleaning required.									<p>Ground Based Operations: Ensure sufficient brush matting and puncheon is utilized in order to minimize soil disturbances. If excessive soil disturbance occurs, cease operations until soil moisture conditions improve or move to an area where drier conditions exist.</p> <p>Backspar Tree/Tailholds/Guyline Stumps: Cutting Permit special conditions allow for the following: May fall trees outside of block if person conducting tree felling or rigging of tail hold/anchor trees determines that the tree represents a safety hazard according to the Worksafe BC Standards.</p> <p>Cultural Resources: No CMT's or cultural resources identified within or adjacent to block. If an unidentified cultural heritage resource is encountered, operations will cease in the immediate vicinity of the feature and WFP Planning shall be notified immediately.</p> <p>Wildlife Resources: In the event any unidentified bear dens or raptor nest trees are encountered during falling, but before the tree has been cut, the faller will go elsewhere for the day and report this potential wildlife tree to a WFP Supervisor. Fallers are not to return to the vicinity of the wildlife tree until notification from WFP Planning has been given. If the discovery of a bear den or potential nest tree occurs while the tree is being felled, the decision to proceed is at the faller's discretion in regards to safety and Worksafe BC requirements. If it is unsafe to leave the tree partially cut, the faller will complete falling the tree and report the incident to WFP Planning.</p> <p>Retention: Internal retention not specified on the map requires review with WFP Planning prior to implementing and necessitates a 'change in plan'. Individual trees along boundary edges may be left standing due to safety or operability issues and do not require documentation unless they pose hazard to subsequent phases. Groups of trees left along boundary edges for safety and/or operability issues need to be reported to WFP Planning.</p> <p>Timbermarking Requirements: All decked timber must be sufficiently marked (at least 10%) when the setting is in-active.</p> <p>Setting timber to be marked to the block cutting permit.</p> <p>Professional Seal and Signature:</p> <div></div> <p>January 21, 2019</p> <p>I certify that I have reviewed this document, and I while I did not personally supervise the work described, I have determined that this work has been done to the standards expected of a member of the Association of BC Forest Professionals.</p>	<p>Risk Category: Low</p> <p>Power Lines: Maximum Allowable Load Heights</p> <table><thead><tr><th>Road Name</th><th>Allowable Load Height</th></tr></thead><tbody><tr><td>Fair Harbour ML and F-30 Jct.</td><td>15.1m/49.5 feet max safe clearance.</td></tr></tbody></table> <p> Special Management Instruction:</p> <p> Harvest Instruct Poly:</p> <p>Terrain: Block Z33HL is located within an area of low to moderate likelihood of landslides. No specific prescription required.</p> <p>Recreation: No specific resources identified, therefore no special prescription required.</p> <p>Invasive Plants: There are no known invasive plants in or adjacent to the harvest area.</p> <p>Big Tree: Any Big Trees discovered during falling are to be left standing. If Big Tree(s) poses a safety risk and cannot be left, stop work and notify WFP Planning and go work elsewhere for the day. Direction will be given from WFP Planning in regards on how to proceed.</p> <p>Leave Trees: There are no individual leave trees associated with this block.</p> <p>Visuals: Block Z33HL has been deemed acceptable from a visual perspective.</p> <p>WTRA, Retention, OGMA: Block boundary is adjacent to WTRA, Retention Areas, and/or OGMA in multiple locations. Danger trees fell from within these areas are to remain in place where operationally feasible. Tail holds and guyline tiebacks may be established in these areas.</p> <table><thead><tr><th colspan="2">Haul Distances</th></tr></thead><tbody><tr><td>Zeballos</td><td>11km</td></tr></tbody></table> <p>Field Work Completed By: SNRC Checked By: Colin McKenzie</p> <p>Signoff:</p> <p>_____ Date: _____</p> <p>_____ Date: _____</p>	Road Name	Allowable Load Height	Fair Harbour ML and F-30 Jct.	15.1m/49.5 feet max safe clearance.	Haul Distances		Zeballos	11km
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