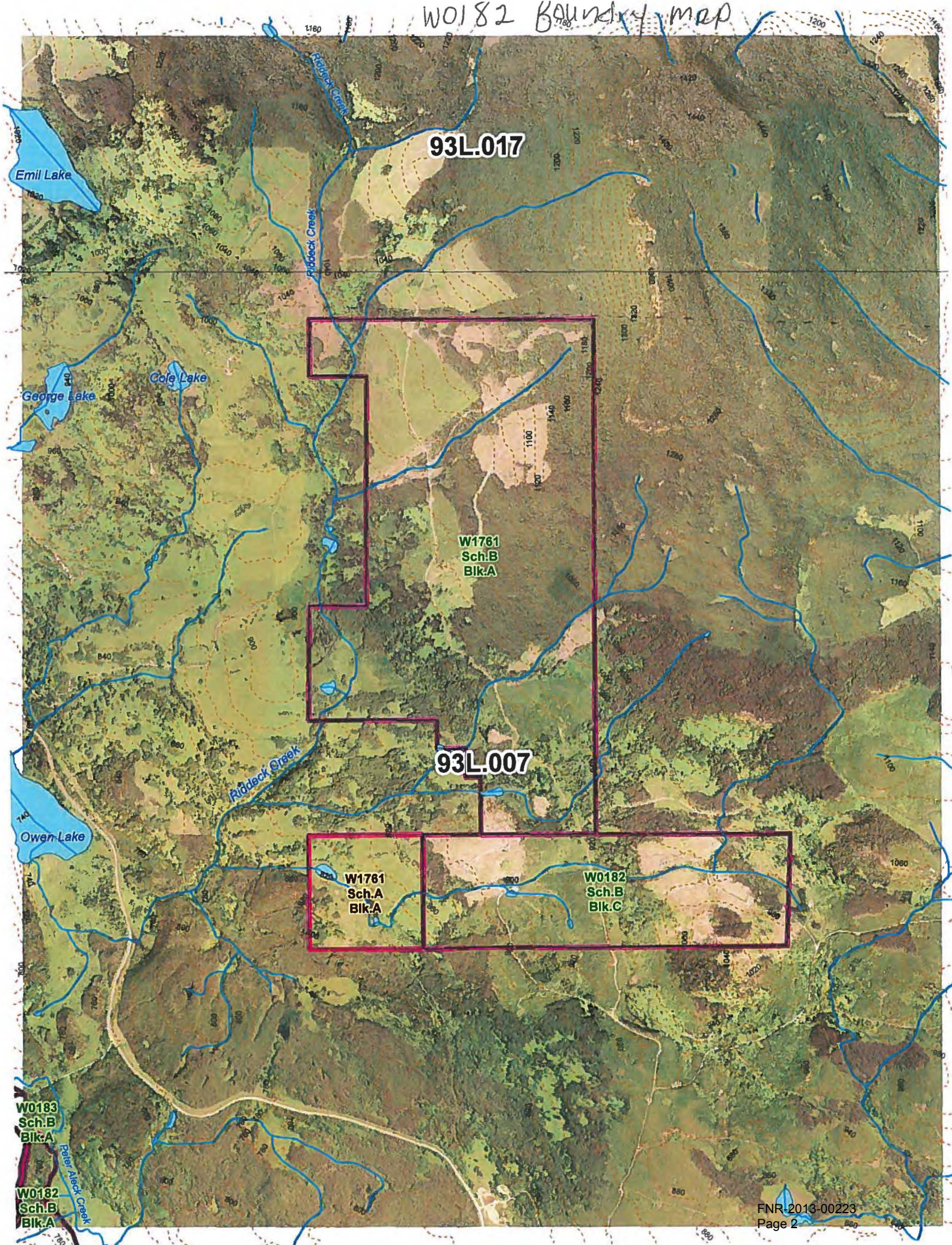






# W0182 Boundary map





**TIMBER LEASE**

THIS AGREEMENT made as of the 19 day of Aug. 2009

BETWEEN:

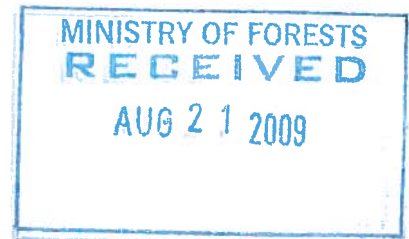
**CHARLES DONALD CHRISTMANN**, Rancher  
PO Box 1409, Houston BC V0J 1Z0

("Christmann")

AND:

**OWEN LAKE RANCH LTD.**  
Inc. No. 243899  
Box 10, Houston BC V0J 1Z0

("Owen Lake")



WHEREAS:

- A. Owen Lake holds Woodlot Tenure W1761 (the "Woodlot Tenure") a copy of which is attached to this Agreement;
- B. PID 015-275-949 District Lot 5366 Range 5 Coast District (the "Schedule A Lands") constitutes Schedule A lands for the Woodlot Tenure;
- C. Christmann has exercised his option to buy the Schedule A Lands and has agreed to grant this Timber Lease to Owen Lake so that it can continue to own and operate the Woodlot Tenure pursuant to the requirements of the *Forest Act* (the "Act").

WITNESSETH that in consideration of the mutual covenants and agreements of the parties and the payment of \$1 by Owen Lake to Christmann, the receipt and sufficiency of which is hereby acknowledged by Christmann, the parties agree as follows:

- 1. The term (the "Term") of this Agreement starts on the date of application for registration of a transfer of an estate in fee simple of the Schedule A Lands from Owen Lake to Christmann and continues for the duration of the Woodlot Tenure and all renewals, extensions, replacements or permitted assignments of it. The Term will end upon the termination of the Woodlot Tenure, its expiration without renewal, its cancellation, or at the conclusion of any other process or event which ends the Woodlot Tenure.
- 2. Christmann grants to Owen Lake during the Term, the sole and exclusive right, privilege and liberty to enter onto the Schedule A Lands together with its servants,





## WOODLOT LICENCE

**W0182**



**THIS Licence**, dated *February 1, 1997*

**BETWEEN:**

HER MAJESTY THE QUEEN IN RIGHT  
OF THE PROVINCE OF BRITISH COLUMBIA, as represented by the  
District Manager of the Nadina Forest District, MINISTRY OF FORESTS  
AND RANGE.

**Nadina Forest District  
Bag 3500,  
Burns Lake, British Columbia  
V0J 1E0**

Phone: **250-692-2200** Fax: **250-692-7461**

(the "District Manager")

**AND:**

**Lee Westergard,  
P.O. Box 844,  
Houston, British Columbia  
V0J 1Z0**

Phone: **250-845-7404** Fax:

(the "licensee")

**WHEREAS:**

- A. Pursuant to s. 46(1) of the *Forest Act*, the District Manager offered the Licensee a replacement for Woodlot Licence No. **W0182** which term began on *February 1, 1997*;
- B. The Licensee accepted the replacement offer;
- C. The parties have entered into this Licence pursuant to s. 46(7) of the *Forest Act*.



**SITE PLAN CHECKLIST**  
(based on WLFMR dated December 17, 2002)

Item	Description	Y/N or N/A	Action Req'd?
Section 14 - Site Plan	biogeo classification for area within each standards unit	Y	
	total area of cutblock	Y	
	net area to be reforested and non-productive area	Y	
	reserve areas or NCBR where fg not req'd	N/A	
	NAR for each standards unit	Y	
	regen method (natural or planting)	Y	
	elevation range for planting	Y	
	preferred and acceptable species for each standards unit	Y	
	in known ungulate winter range - stand structure to be retained and characteristics, species and function of leave trees	N/A	
	fish streams in or adjacent to cutblock	Y	
	riparian class of streams, wetlands and lakes in or adjacent to cutblock	Y	
	if harvesting is proposed in RMZ or RRZ whether or not falling or yarding across streams will be undertaken and measures for debris management	N/A	
	selection criteria and level of retention of wildlife trees and wildlife tree patches (unless comprehensive plan is in fdp or free growing is not required on block)	comprehensive plan	
	location and measures to protect (or not) known resource feature(s)	none	
	if terrain stability assessment is req'd a statement saying it has been carried out; that harvesting complies; and whether the fdp is consistent or inconsistent	N/A	
	field traverse of block	Y	
	map showing (a) standards units and their biogeo classifications; (b) approximate locations of reserves > 0.25 ha (wildlife trees and RRZs included)	Y	
	in RMZ - stand structure to be retained; characteristics, species and function of leave trees; and basal area or trees/ha or minimum no.	N/A	
	is harvesting proposed within RMZ of a stream that is a direct tributary to a temperature sensitive stream? If yes, specify stand structure that will provide necessary shade	N/A	
	is harvesting proposed within RMZ of a stream that is a direct tributary to S1, S2, S3 or marine sensitive zone? If yes, specify stand structure to maintain stream bank and channel stability	N/A	


Woodlot Licence: W01825  
BKS 1-9

Review Date: 2007-01-19



<b>Section 19 - Additional Info</b>	map describing approximate location of access structures to be rehabed and timing		
	map describing approximate location of permanent access structure(s)	✓	
	map describing approximate location of harvesting and related forest practices	✓	
	maps indicating location of proposed roads (based on field traverse)		
	Is the area of permanent access structures going to exceed 7%? If so, variance must be requested.	no	
	Is the area of soil disturbance going to exceed 5%? If so, variance must be requested.	no	
	Soil hazard assessments - if soil disturbance is to exceed 5%		
	detailed description of silvicultural system		
	stand structure to be retained at the completion of harvest		
	stocking requirements if different from WLFMR	✓	
	description of measures to accommodate non-timber resources		
	excavated or bladed trails		
	results of a forest health assessment	✓	
	measures to reduce significant forest health risks		
	Is the site plan consistent with the FDP currently in effect?		
<b>Section 21 - area larger than cutblock</b>	Is the site plan for an area larger than the proposed cutblock?		
	Has the map been signed by RPF?		
<b>Section 22 - signatures</b>	site plan must contain signatures of RPF and woodlot licence holder if not part of FDP	Y	



SIGNATURE OF WOODLOT LICENSEE OR PERSON AUTHORIZED ON BEHALF OF THE WOODLOT LICENSEE(S)	RPF SIGNATURE AND SEAL
<p>Signature <u><i>[Signature]</i></u> Date <u>06/12/15</u> (yy/mm/dd)</p>	<p></p>
SIGNATURE FOR DISTRICT MANAGER APPROVAL	<p>RPF Signature and Seal <u><i>[Signature]</i></u> Date <u>06/12/14</u> (yy/mm/dd)</p>
<p>Signature <u><i>[Signature]</i></u> Date <u>2007-01-19</u> (yy/mm/dd) <i>for Mark Viner</i></p>	<p>RPF Name (Printed) <u>Melissa J. Steidle</u> NO. 3917</p>



**NON-TIMBER RESOURCES AND RESOURCE FEATURES IN OR ADJACENT TO THE CUTBLOCK**

Feature(s)	Measures to protect or accommodate or the reason for not protecting the feature(s)
N/A	No CMT's were noted during field work. If the harvesting carries forward into the summer months or the licensee decides to utilize site preparation prior to harvest then a CHR reconnaissance will be completed under snow free conditions.

**RIPARIAN MANAGEMENT**

Riparian Class of Feature	S4 default	Designation on Map	Stream 1	Falling and/or Skidding or Yarding Across a Stream	No
Post-harvest stand structure: N/A					
Comments: The block boundary of both associated blocks is outside of the stream channel and associated draw. The intent to maintain the integrity of the stream should be met.					
Harvesting is proposed in the RMZ of an S4, S5, or S6 stream that is a direct tributary to a known temperature sensitive S1, S2, S3, or S4 stream and there are currently sufficient numbers of shade trees in the RMZ.					N/A
Harvesting is proposed in the RMZ of an S4, S5, or S6 stream that is a direct tributary to a S1, S2, or S3 stream or a marine-sensitive zone and there are sufficient numbers and distribution of trees in the RMZ to provide or contribute significantly to the maintenance of stream bank or channel stability.					N/A
Measures for debris management if falling and/or skidding or yarding across a stream is proposed				N/A	

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Other (identify)	Length (m) N/A	Width (m) N/A	Area (ha) N/A
Total Cutblock Area (ha)	34.6	Total Area of Permanent Access (ha)	0
		Maximum % of the Total Cutting Permit Area to be occupied by Permanent Access Structures	7.0%
Trails that will be used for repeated harvest entries are proposed as permanent access structures.		N/A	
Roads, landings, borrow pits, or quarries within this cutblock are proposed for rehabilitation.		N/A	

**REHABILITATION MEASURES**

Describe the structures to be rehabilitated as well as the measures and timing for rehabilitation if the measures in the WLFMR will not be used

Structures	N/A	Measures and Timing	N/A
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**SOIL DISTURBANCE**Maximum Percentage of the Net Area to be Reforested 5  
to be occupied by Soil Disturbance (% of NAR)

Rationale for greater than 5% of the NAR being occupied by soil disturbance

Due to the present snow pack a soil pit was not dug. The SP has been defaulted to Very High in each hazard in an effort to manage the risk of soil degradation. If these blocks are not harvested in the winter of 2006/07 a field visit will be conducted in the spring to verify the soil hazards.

Compaction Hazard	SU I: VH	Erosion Hazard	SU I: VH	Displacement Hazard	SU I: VH
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**WILDLIFE TREE STRATEGY**

Describe proposed wildlife trees and wildlife tree patches:

The WTP strategy is a Wildlife Tree Patch Retention strategy for the entire woodlot with the approval of the WLP. In the meantime 8% of the TAUP has been set aside as a WTP in accordance with the spirit of the Forest and Range Practices Act and the Woodlot Licence Planning and Practices Regulations.

Deciduous species as well as scattered conifers will be maintained throughout the block to retain stand structure, diversity and soften the visual impacts of harvesting.

Selection Criteria/ Level of Retention	<ul style="list-style-type: none"> <li>Mature deciduous stems will be maintained through the logged block where operationally feasible. These large diameter stems should provide habitat for various wildlife species.</li> </ul>
---	--

**MEASURES FOR COARSE WOODY DEBRIS**

Describe proposed measures to satisfy objectives for CWD stated in the Forest Development Plan

The licensee will use on-site material to fulfill biodiversity obligations with respect to coarse woody material. A portion of the logging debris left in the vicinity of standing timber and riparian areas will be placed into piles and retained on site.

CWD pieces should be large logs, which are defined as logs longer than 15 meters in length and a diameter greater than 20 cm at the butt. Smaller pieces should also be maintained but the focus will be to maintain all possible larger stems within the strategies outlined.

The licensee may utilize the following strategies to maintain CWD throughout the block:

1. Leave standing, or fell and leave intact, stems estimated to be grade 5 (dead and dry with severe check or rotten) or poorer;
2. Maintain clumps of immature trees and patches of natural non-merchantable deadfall intact where operationally feasible and available;
3. Fall or stub dead grade 5 or lower trees and place in or alongside an existing clump where possible, or create a new clump or row;
4. If possible, place felled snags and stub tops in a natural orientation so that it simulates natural deadfall patterns;
5. Ensure that the clumps are obvious or marked in some way so that the skidder operator can maintain them during skidding.
6. Ensure operational productivity is maintained.

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JAN 19 2007



Province of  
British ColumbiaMinistry of  
Forests

## Northern Interior Forest Region

## WOODLOT LICENSE SITE PLAN

Woodlot Licence	W182	Cutting Permit	S	Block	1-9	Opening #	N/A
Total Area (ha)	<del>40.5</del> 40.4 AP	NAR (ha)	<del>37.1</del> 37.0 AP	Non-Prod. Natural (ha)	0	Non-Prod. Un-Nat. (ha)	0
Area of Reserve (ha)	3.3	Type of Reserve	Group	Air Photo #s			
Harvest Method	Conventional Ground Based						
Silvicultural System	Clearcut with reserves						

SU	NAR (ha)	Biogeoclimatic Ecosystem Classification				Regeneration Method	Preferred Species	Acceptable Species
		Zone	Subzone	Variant	Site Series			
I	<del>37.1</del> 37.0 AP	SBS	mc	2	01	PLANT	Pli, Sx	BI
Elevation range if planting is specified		• 860-1020 for the area near the Owen North FSR.						
Forest Health Assessment and Measures to be taken		• The stand is infested with Mountain Pine Beetle. Harvesting will remove dead timber and replace with an immature mixed stand. The pine component is greater than 80%, while the infest levels within the pine is over 90%.						

## STOCKING SPECIFICATIONS FOR SILVICULTURAL SYSTEMS OTHER THAN SINGLE TREE SELECTION

SU	Regen. Date (yrs)	FG Date Early (yrs)	FG Date Late (yrs)	MITD (m)	TSS (sph)	MSSpa (sph)	MSSp (sph)	Maximum Density (sph)	Min. FG Ht. by Species		Crop Tree to Brush Ratio (%)
									Species	Ht (m)	
I	7	12	15	1.5	1200	700	600	10,000	Pli Other	1.6 0.8	150

## PERMANENT ACCESS STRUCTURES Block 8

Rationale for greater than 7% of the total cutblock area being occupied by permanent access structures:

Roads	Length (m)	115	Width (m)	10	Area (ha)	0.1
Landings	Length (m)		Width (m)		Area (ha)	
Other (Identify)	Length (m)	N/A	Width (m)	N/A	Area (ha)	N/A
Total Cutblock Area (ha)	2.5	Total Area of Permanent Access (ha)	0.1	Maximum % of the Total Cutting Permit Area to be occupied by Permanent Access Structures	7.0%	
Trails that will be used for repeated harvest entries are proposed as permanent access structures.						N/A
Roads, landings, borrow pits, or quarries within this cutblock are proposed for rehabilitation.						N/A

## PERMANENT ACCESS STRUCTURES

## All other blocks

Rationale for greater than 7% of the total cutblock area being occupied by permanent access structures:

These blocks have some scattered skid trails through them, these trails will be planted during the reforestation process.

Roads	Length (m)	0	Width (m)	0	Area (ha)	0
Landings	Length (m)		Width (m)		Area (ha)	

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JAN 19 2007





File: 19720-45  
19720-55-W0182 CP S  
18750-20

January 23, 2007

Lee Westergard,  
Box 844,  
Houston, British Columbia  
V0J 1Z0

Dear Lee:

Enclosed you will find your approved Site Plans for Woodlot Licence 182 Cutting Permit S blocks 1 - 9.



Yours truly,

Rena Betemps  
Tenures Resource Clerk  
Nadina Forest District

Attachment

Cc. Compliance and Enforcement  
Integrated Woods Services Ltd.



## Woodlot Licence Route Card

Licence: W0182  
Cutting Permit: S  
Block(s): 1 - 9

Licensee: Lee Westergard  
Location: Owen Lake

Indicate Function:

- ☐ Site Plan Exemption  
☐ Free Growing Exemption

**X Site Plan**

- ☐ Site Plan Amendment  
☐ Silviculture Prescription Amendment

Task and Responsibility	Date	Initials
<u>Tenures Forester</u> Date Document Received: 2007-01-19 Ledger #: 1577 Review submission for completeness Return to licensee for revision Ensure all changes are incorporated Forward to Approval Authority	2007 01 19	AP
<u>Comments</u>		
<u>Approval Authority</u> Review and approve and forward to Resource Clerk	2007 01 19	AP
<u>Resource Clerk</u>  <b>Site Plan</b> <ul style="list-style-type: none"> <li>• Approval letter and copy of approved site plan to licensee ✓</li> <li>• Original filed Woodlot file 19720 55 ✓</li> <li>• Copies filed <ul style="list-style-type: none"> <li>• Cutting Permit file 19720 45 ✓</li> <li>• Opening File (number generated by RESULTS) 18750 20 ✓</li> </ul> </li> <li>• Copies sent <ul style="list-style-type: none"> <li>• C&amp;E staff ✓</li> <li>• Data entry ✓</li> </ul> </li> </ul> <b>Exemption</b> <ul style="list-style-type: none"> <li>• Approval letter, copy of exemption and map to licensee</li> <li>• Original submission (form and map) and approval letter filed Woodlot file 19720 45</li> <li>• Copies of submission (form and map) filed <ul style="list-style-type: none"> <li>• Silviculture Exemption file 18790 40</li> <li>• Opening file (number generated in RESULTS) 18750 20</li> </ul> </li> <li>• Copies of submission (form and map) sent <ul style="list-style-type: none"> <li>• C&amp;E staff</li> <li>• Data entry</li> </ul> </li> </ul>	Feb. 01.23	RB



<b>Section 19 - Additional Info</b>	map describing approximate location of access structures to be rehabed and timing		
	map describing approximate location of permanent access structure(s)		
	map describing approximate location of harvesting and related forest practices		
	maps indicating location of proposed roads (based on field traverse)		
	Is the area of permanent access structures going to exceed 7%? If so, variance must be requested.		
	Is the area of soil disturbance going to exceed 5%? If so, variance must be requested.		
	Soil hazard assessments - if soil disturbance is to exceed 5%		
	detailed description of silvicultural system		
	stand structure to be retained at the completion of harvest		
	stocking requirements if different from WLFMR		
	description of measures to accommodate non-timber resources		
	excavated or bladed trails		
	results of a forest health assessment	✓	
	measures to reduce significant forest health risks		
	Is the site plan consistent with the FDP currently in effect?		
<b>Section 21 - area larger than cutblock</b>	Is the site plan for an area larger than the proposed cutblock?		
	Has the map been signed by RPF?		
<b>Section 22 - signatures</b>	site plan must contain signatures of RPF and woodlot licence holder if not part of FDP	Y	





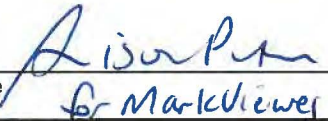
**SITE PLAN CHECKLIST**  
(based on WLFMR dated December 17, 2002)

Item	Description	Y/N or N/A	Action Req'd?
<b>Section 14 - Site Plan</b>	biogeo classification for area within each standards unit	Y	
	total area of cutblock	Y	
	net area to be reforested and non-productive area	Y	
	reserve areas or NCBR where fg not req'd	N/A	
	NAR for each standards unit	Y	
	regen method (natural or planting)	Y	
	elevation range for planting	Y	
	preferred and acceptable species for each standards unit	Y	
	<b>in known ungulate winter range</b> - stand structure to be retained and characteristics, species and function of leave trees	N/A	
	fish streams in or adjacent to cutblock	Y	
	riparian class of streams, wetlands and lakes in or adjacent to cutblock	Y	
	if harvesting is proposed in RMZ or RRZ whether or not falling or yarding across streams will be undertaken and measures for debris management	no	
	selection criteria and level of retention of wildlife trees and wildlife tree patches (unless comprehensive plan is in fdp or free growing is not required on block)	Y	
	location and measures to protect (or not) <b>known</b> resource feature(s)	none	
	if terrain stability assessment is req'd a statement saying it has been carried out; that harvesting complies; and whether the fdp is consistent or inconsistent	N/A	
	field traverse of block	Y	
	map showing (a) standards units and their biogeo classifications; (b) approximate locations of reserves > 0.25 ha (wildlife trees and RRZs included)	Y	
	in RMZ - stand structure to be retained; characteristics, species and function of leave trees; and basal area or trees/ha or minimum no.	N/A	
	is harvesting proposed within RMZ of a stream that is a direct tributary to a temperature sensitive stream? If yes, specify stand structure that will provide necessary shade	no	
	is harvesting proposed within RMZ of a stream that is a direct tributary to S1, S2, S3 or marine sensitive zone? If yes, specify stand structure to maintain stream bank and channel stability	no	

Woodlot Licence: W0182 CPS  
BK13

Review Date: 2007-02-19



SIGNATURE OF WOODLOT LICENSEE OR PERSON AUTHORIZED ON BEHALF OF THE WOODLOT LICENSEE(S)	RPF SIGNATURE AND SEAL
 Signature _____ Date <u>02/02/14</u> (yy/mm/dd)	 RPF Signature and Seal _____ Date <u>07/02/14</u> (yy/mm/dd)
SIGNATURE FOR DISTRICT MANAGER APPROVAL	
 Signature _____ Date <u>2007-02-19</u> (yy/mm/dd)	RPF Name (Printed) <u>Melissa Steidle</u>



RIPARIAN MANAGEMENT			
Riparian Class of Feature	S4 default	Designation on Map	Stream 1
		Falling and/or Skidding or Yarding Across a Stream	No
Post-harvest stand structure: N/A			
Comments: The block boundary of both associated blocks is outside of the stream channel and associated draw. The intent to maintain the integrity of the stream should be met.			
Harvesting is proposed in the RMZ of an S4, S5, or S6 stream that is a direct tributary to a known temperature sensitive S1, S2, S3, or S4 stream and there are currently sufficient numbers of shade trees in the RMZ.			N/A
Harvesting is proposed in the RMZ of an S4, S5, or S6 stream that is a direct tributary to a S1, S2, or S3 stream or a marine-sensitive zone and there are sufficient numbers and distribution of trees in the RMZ to provide or contribute significantly to the maintenance of stream bank or channel stability.			N/A
Measures for debris management if falling and/or skidding or yarding across a stream is proposed		N/A	



**SOIL DISTURBANCE**

Maximum Percentage of the Net Area to be Reforested 5  
to be occupied by Soil Disturbance (% of NAR)

Rationale for greater than 5% of the NAR being occupied by soil disturbance

Due to the present snow pack a soil pit was not dug. The SP has been defaulted to Very High in each hazard in an effort to manage the risk of soil degradation. If these blocks are not harvested in the winter of 2006/07 a field visit will be conducted in the spring to verify the soil hazards.

Compaction Hazard SU I: VH

Erosion Hazard SU I: VH

Displacement Hazard SU I: VH

**WILDLIFE TREE STRATEGY**

Describe proposed wildlife trees and wildlife tree patches:

The WTP strategy is a Wildlife Tree Patch Retention strategy for the entire woodlot with the approval of the WLP. In the meantime 8% of the TAUP has been set aside as a WTP in accordance with the spirit of the Forest and Range Practices Act and the Woodlot Licence Planning and Practices Regulations. The WTP is small and has been attached to the WTP that is part of the site plan for CP S blocks 1-9. This should increase the effectiveness of a 0.2 ha WTP.

Deciduous species as well as scattered conifers will be maintained throughout the block to retain stand structure, diversity and soften the visual impacts of harvesting.

Selection Criteria/  
Level of Retention

- Mature deciduous stems will be maintained through the logged block where operationally feasible. These large diameter stems should provide habitat for various wildlife species.

**MEASURES FOR COARSE WOODY DEBRIS**

Describe proposed measures to satisfy objectives for CWD stated in the Forest Development Plan

The licensee will use on-site material to fulfill biodiversity obligations with respect to coarse woody material. A portion of the logging debris left in the vicinity of standing timber and riparian areas will be placed into piles and retained on site.

CWD pieces should be large logs, which are defined as logs longer than 15 meters in length and a diameter greater than 20 cm at the butt. Smaller pieces should also be maintained but the focus will be to maintain all possible larger stems within the strategies outlined.

The licensee may utilize the following strategies to maintain CWD throughout the block:

1. Leave standing, or fell and leave intact, stems estimated to be grade 5 (dead and dry with severe check or rotten) or poorer;
2. Maintain clumps of immature trees and patches of natural non-merchantable deadfall intact where operationally feasible and available;
3. Fall or stub dead grade 5 or lower trees and place in or alongside an existing clump where possible, or create a new clump or row;
4. If possible, place felled snags and stub tops in a natural orientation so that it simulates natural deadfall patterns;
5. Ensure that the clumps are obvious or marked in some way so that the skidder operator can maintain them during skidding.
6. Ensure operational productivity is maintained.

**NON-TIMBER RESOURCES AND RESOURCE FEATURES IN OR ADJACENT TO THE CUTBLOCK**

Feature(s)	Measures to protect or accommodate or the reason for not protecting the feature(s)
N/A	No CMT's were noted during field work. If the harvesting carries forward into the summer months or the licensee decides to utilize site preparation prior to harvest then a CHR reconnaissance will be completed under snow free conditions.



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British ColumbiaMinistry of  
Forests

## Northern Interior Forest Region

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FEB 14 2007

## WOODLOT LICENSE SITE PLAN

Woodlot Licence	W182	Cutting Permit	S	Block	13	Opening #	N/A
Total Area (ha)	2.1	NAR (ha)	1.9	Non-Prod. Natural (ha)	0	Non-Prod. Un-Nat. (ha)	0
Area of Reserve (ha)	0.2	Type of Reserve	Group	Air Photo #s			
Harvest Method	Conventional Ground Based						
Silvicultural System	Clearcut with reserves						

SU	NAR (ha)	Biogeoclimatic Ecosystem Classification				Regeneration Method	Preferred Species	Acceptable Species
		Zone	Subzone	Variant	Site Series			
I	1.9	SBS	mc	2	01	PLANT	Pli, Sx	BI
Elevation range if planting is specified		• 860-1020 for the area near the Owen North FSR.						
Forest Health Assessment and Measures to be taken		• The stand is infested with Mountain Pine Beetle. Harvesting will remove dead timber and replace with an immature mixed stand. The pine component is greater than 80%, while the infest levels within the pine is over 90%.						

## STOCKING SPECIFICATIONS FOR SILVICULTURAL SYSTEMS OTHER THAN SINGLE TREE SELECTION

SU	Regen. Date (yrs)	FG Date Early (yrs)	FG Date Late (yrs)	MITD (m)	TSS (sph)	MSSpa (sph)	MSSp (sph)	Maximum Density (sph)	Min. FG Ht. by Species		Crop Tree to Brush Ratio (%)
									Species	Ht (m)	
I	7	12	15	1.5	1200	700	600	10,000	Pli Other	1.6 0.8	150

## PERMANENT ACCESS STRUCTURES

## Block 13

Rationale for greater than 7% of the total cutblock area being occupied by permanent access structures: The blocks has some scattered skid trails through them, these trails will be planted during the reforestation process.

Roads	Length (m)	0	Width (m)	0	Area (ha)	0	
Landings	Length (m)		Width (m)		Area (ha)		
Other (Identify)	Length (m)	N/A	Width (m)	N/A	Area (ha)	N/A	
Total Cutblock Area (ha)		2.1	Total Area of Permanent Access (ha)		0	Maximum % of the Total Cutting Permit Area to be occupied by Permanent Access Structures	7.0%
Trails that will be used for repeated harvest entries are proposed as permanent access structures.						N/A	
Roads, landings, borrow pits, or quarries within this cutblock are proposed for rehabilitation.						N/A	

## REHABILITATION MEASURES

Describe the structures to be rehabilitated as well as the measures and timing for rehabilitation if the measures in the WLFMR will not be used

Structures	N/A	Measures and Timing	N/A
------------	-----	---------------------	-----





File: 19720-45  
19720-55-W0182 CP S  
18750-20

February 27, 2007


Lee Westergard,  
Box 844,  
Houston, British Columbia  
V0J 1Z0

Dear Lee:

Enclosed you will find your approved Site Plans for Woodlot Licence 182 Cutting Permit S block 13.



Yours truly,

  
Rena Betemps  
Tenures Resource Clerk  
Nadina Forest District

Attachment

Cc. Compliance and Enforcement  
Integrated Woods Services Ltd.



## Woodlot Licence Route Card

Licence: W0182  
Cutting Permit: S  
Block(s): 13

Licensee: Lee Westergard  
Location: Owen Lake

Indicate Function:

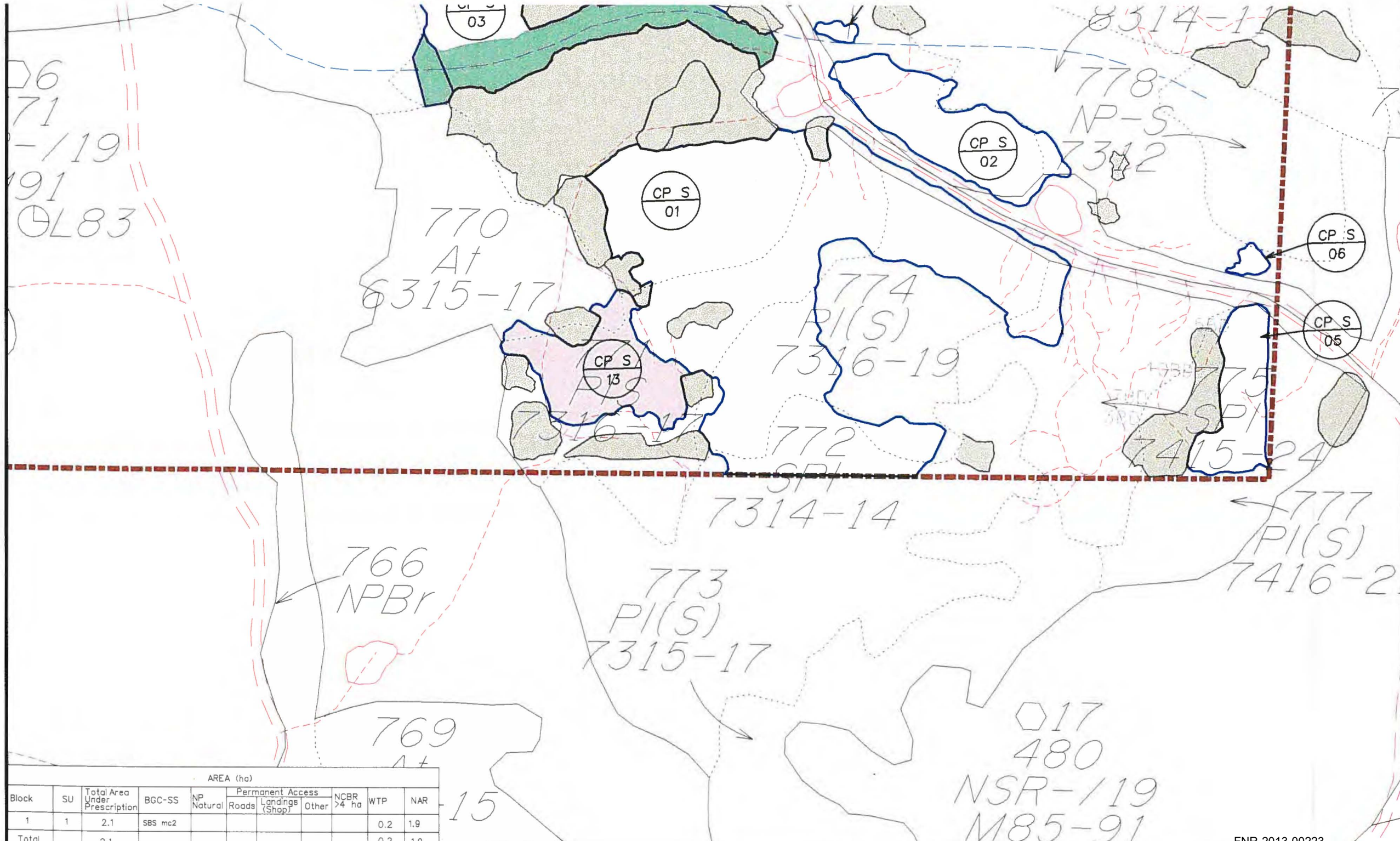
- ☐ Site Plan Exemption  
☐ Free Growing Exemption

**X Site Plan**

- ☐ Site Plan Amendment  
☐ Silviculture Prescription Amendment

Task and Responsibility	Date	Initials
<u>Tenures Forester</u> Date Document Received: 2007 02 14 Ledger #: 1607 Review submission for completeness Return to licensee for revision Ensure all changes are incorporated Forward to Approval Authority	2007 02 19	AP
<u>Comments</u> WTP shown in block total has been added to WTP on block 3.		
<u>Approval Authority</u> Review and approve and forward to Resource Clerk	2007 02 19	AP
<u>Resource Clerk</u>  <b>Site Plan</b> <ul style="list-style-type: none"> <li>• Approval letter and copy of approved site plan to licensee ✓</li> <li>• Original filed Woodlot file 19720 55 ✓</li> <li>• Copies filed <ul style="list-style-type: none"> <li>• Cutting Permit file 19720 45 ✓</li> <li>• Opening File (number generated by RESULTS) 18750 20 ✓</li> </ul> </li> <li>• Copies sent <ul style="list-style-type: none"> <li>• C&amp;E staff ✓</li> <li>• Data entry ✓</li> </ul> </li> </ul> <b>Exemption</b> <ul style="list-style-type: none"> <li>• Approval letter, copy of exemption and map to licensee</li> <li>• Original submission (form and map) and approval letter filed Woodlot file 19720 45</li> <li>• Copies of submission (form and map) filed <ul style="list-style-type: none"> <li>• Silviculture Exemption file 18790 40</li> <li>• Opening file (number generated in RESULTS) 18750 20</li> </ul> </li> <li>• Copies of submission (form and map) sent <ul style="list-style-type: none"> <li>• C&amp;E staff</li> <li>• Data entry</li> </ul> </li> </ul>	2007.02.27	RB





Block	SU	Total Area Under Prescription	BGC-SS	AREA (ha)				NCBR >4 ha	WTP	NAR
				NP Natural	Permanent Access Roads	Landings (Shop)	Other			
1	1	2.1	SBS mc2						0.2	1.9
Total		2.1							0.2	1.9





Woodlot # 0182  
CPS BLK 1-8  
Site Plan Map

Region: NIFR	Datum: NAD83
District: Nadina	UTM Zone: 10
Timber Supply Area:	Mapsheet: 093L007
Inventory Region: 60/67	Scale: 1: 10,000
Inventory Comp: 67/26	Date Drawn: Jan 16, 2007
Forest Inventory Zone: H/J	Date Revised:
P.S.Y.U. Morice/Ootsa	Drawn By: L. Johnson
Air Photo **	Project Manager: M. Steidle

LEGEND

RMZ	RRZ
SHA	SMZ
Lake	MFZ
Wetland	WTP
NSR Blocks	POTENTIAL WTP
SR Blocks	Other CP Blocks

[Symbol]	Approved Block Boundary
[Symbol]	Proposed Block Boundary
[Symbol]	Existing Road
[Symbol]	Existing Landings
[Symbol]	Proposed Road Permit Section
[Symbol]	Built Road Permit Section
[Symbol]	Proposed Roads
[Symbol]	Proposed Spur
[Symbol]	Stream
[Symbol]	Drainage/Seepage
[Symbol]	Contour Line
[Symbol]	Contour Label
[Symbol]	Bridge
[Symbol]	Culvert
[Symbol]	Designated Crossing
[Symbol]	Power Lines
[Symbol]	Fence
[Symbol]	Proposed (SCC) Salv Blocks
[Symbol]	Approved (SCC) Salv Block
[Symbol]	Retention Zone
[Symbol]	Standard Unit Label

[Symbol]	SP Plots
[Symbol]	SU 1
[Symbol]	SU 2
[Symbol]	SU 3

Block	SU	Total Area Under Prescription	BGC-SS	NP Natural	Permanent Access			NCRB >4 ha	WTP	NAR
					Roads	Landings (Shop)	Other			
1	1	12.3	SBS mc2							12.3
2	1	2.3	SBS mc2							2.3
3	1	3.6	SBS mc2						1.7	1.9
4	1	0.1	SBS mc2							0.1
5	1	1.2	SBS mc2							1.2
6	1	0.1	SBS mc2							0.1
7	1	18.1	SBS mc2						1.6	14.5
8	1	2.6	SBS mc2		0.1					2.5
9	1	2.1	SBS mc2							2.1
Total		40.4			0.1				3.3	37.0



CLIFF MANNING FORESTRY SERVICES LTD.  
BOX 251 BURNS LAKE, B.C. V0J1E0  
TEL: (250) 692-3459 FAX: (250) 692-3460  
e-mail: lorett@cliffmanning.ca



DECLINATION 25 27  
NAD 83  
Scale = 1:5000  
1995 - LFM

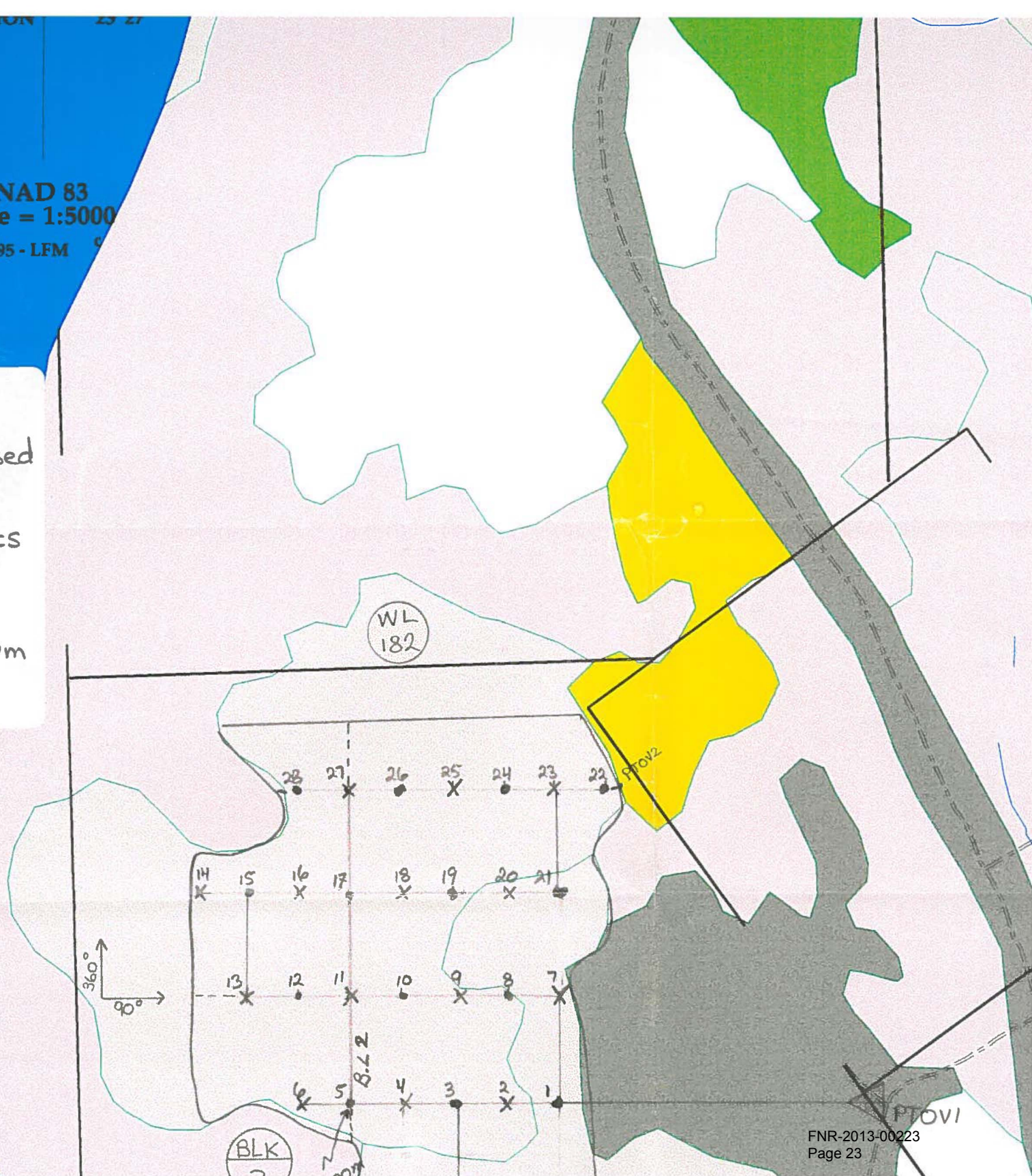
Woodlot #182  
cruise design - Scale based  
Block 3

• = 16 Full Measure Plots

Map Scale = 1:5000

Spacing 100m x 100m

May 6, 1996





Following pages are maps  
from

W 1761-A

Legal file



**ROAD LAYOUT AND DESIGN MAP**  
**WOODLOT 1761 CP 'A'**  
**HARRY VANDENBERG**

Region: Rupert  
 District: Maricopa  
 Mapsheet: 993-1007  
 Cutting Permit: A  
 Block: 1  
 Air Photo: 96138: 167-168  
 Location: Owen Lake/Riddeck Creek F.S.R.  
 Date: Nov.28/Dec.19, 2001/Apr.11 9.2002

**SCALE 1:10 000**  
 RE SUPPLEMENTAL CORRECTED  
 ELEVATION MAP 19  
 N.T.S. - LESS OR EQUAL TO 4  
 S.I.C. 1  
 OPS DATA COLLECTED IN S.A.S. 13  
 BASE MAPS ARE NOT FOR S.A.S. 13

**LEGEND**

- RMA
- SMZ
- LOGGED
- WETLAND
- MPB Salvage
- MFZ
- L.T. WTP
- P.C. WTP
- Woodlot Boundary
- Harvest Boundary
- Stream
- Drainage/Seepage
- Reach Break
- Standard Unit Boundary
- Standard Unit Label
- SP Plots
- Existing Road
- Existing Landings
- Existing Trail
- Proposed Road Location
- Proposed Spur
- Proposed Landings
- Gully
- Edge of Embankment
- Proposed Bridge
- Culvert
- Designated Crossing
- Culturally Modified Tree

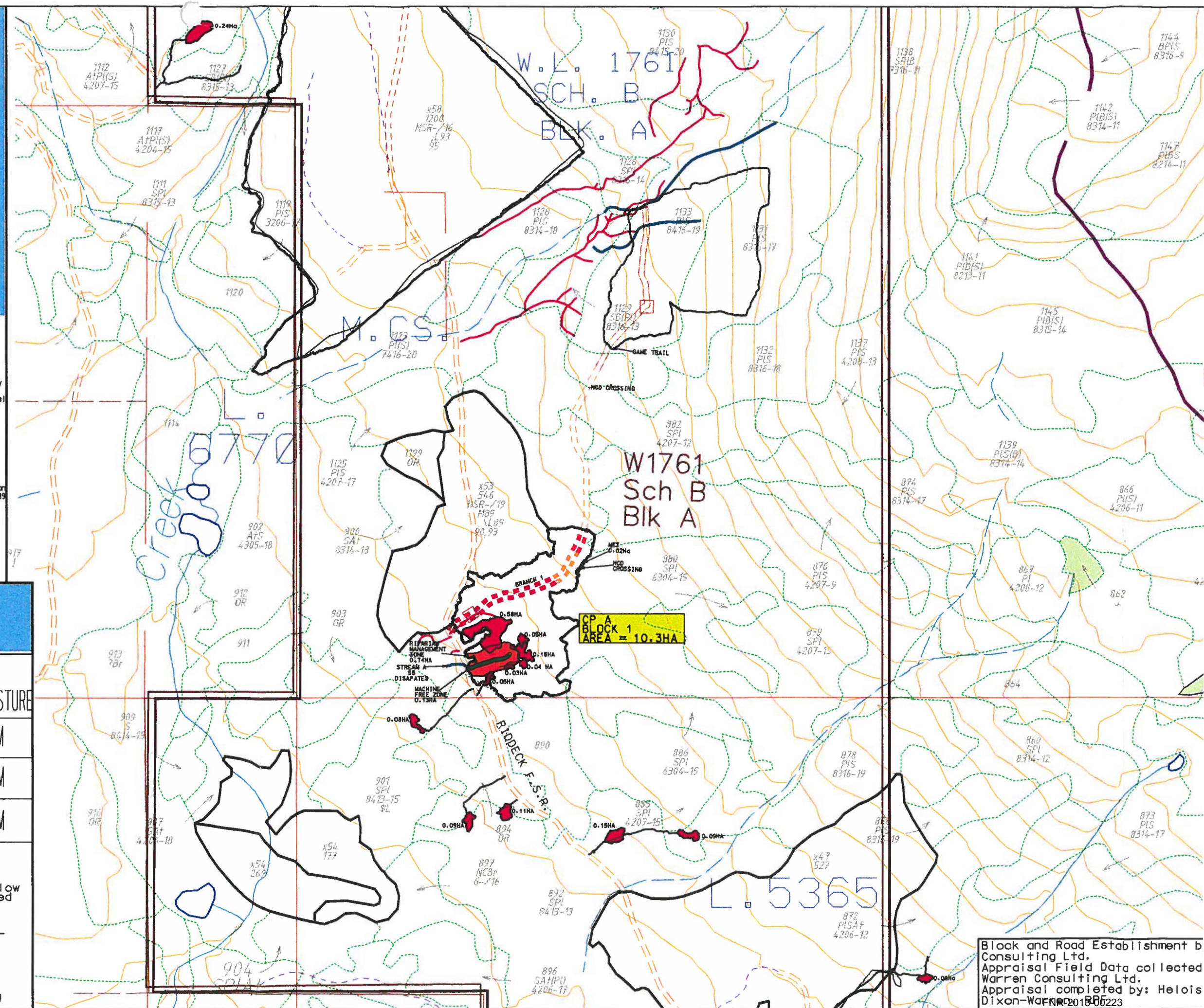
**APPRAISAL DATA**

ROAD SECTION	LENGTH (M)	% SLOPE	% ROCK	MOISTURE
	300	7	15	M
	100	16	15	M
	25	12	15	M

**RIBBON COLOUR**

Site Plan plots & Strip Lines: Yellow  
 Maching Free Zone: Lime Green-Printed  
 Riparian Management Zone: Orange - Printed  
 Block Boundary: Pink (block is not ribboned along road and opening 53-plantation)  
 Road Centre Line: Red  
 Cruise Plots and Strip Lines: Blue  
 Skid Trails: Yellow - Printed

FILE - W1761 APPRAISAL.dgn DATE: 01/12/19



Block and Road Establishment b  
 Consulting Ltd.  
 Appraisal Field Data collected  
 Warren Consulting Ltd.  
 Appraisal completed by: Helois  
 Dixon-Warner 201805223



REG	67
COMPT.	026
L	007

PLANNING CALL NO.	
MANAGEMENT UNIT	
TYPE	
NUMBER	

MAP SHOWN IN BOLD SOLID LINE OF		DATE <b>02/05/24</b>	
W1761 CPA		DRAWN BY <b>M. ROBINSON</b>	
J.T.M.	ZONE	EAST ±	NORTH ±
GRID	096521235994939		
REF. MAP	93L007	AREA	10.3ha hectares ±
BASE MAP	93L007	SCALE	1: 5000
FOREST REGION	PRINCE RUPERT	SHOWN AS	
FOREST DISTRICT	MORICE	ORCS NO.	19120-40-W1761-A
LAND DISTRICT	CR5	MDM I.D.	
PULPWOOD AGREEMENT		CASCADES	
NUMBER		EAST	
BLOCK		WEST	
SUB-BLOCK			

### LEGEND

- RMA
- SMZ
- LOGGED
- WETLAND
- MPB EXISTING BROODS
- MFZ
- L.T. WTP
- P.C. WTP
- Woodlot Boundary
- Harvest Boundary
- Stream
- Drainage/Seepage
- Reach Break
- Standard Unit Boundary
- Standard Unit Label
- SP Plots
- Existing Road
- Existing Landings
- Existing Trail
- Proposed Road Location
- Proposed Spur
- Proposed Landings
- Gully
- Edge of Embankment
- Proposed Bridge
- Culvert
- Designated Crossing
- Culturally Modified Tree

### ROAD SYMBOLS

- PROPOSED ROAD CONSTRUCTION
- ROAD UNDER CONSTRUCTION
- EXISTING ROADS
- EXISTING TRAILS

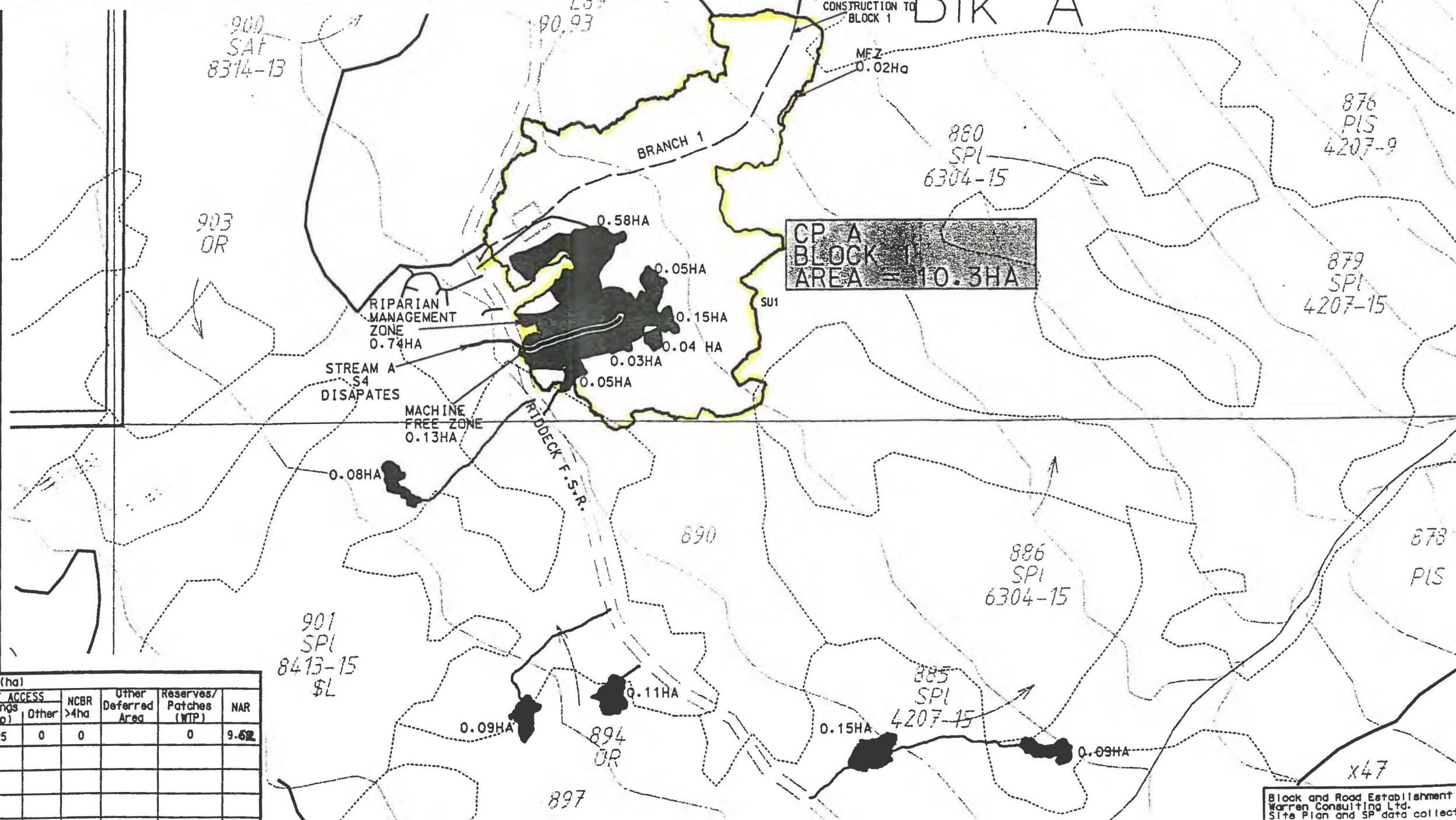
### RIBBON COLOUR

Site Plan Plots & Strip Lines: Yellow  
Machine Free Zone: Lime Green-Printed  
Riparian Management Zone: Orange-Printed  
Block Boundary: Pink/black not ribboned along road and opening 53-plantation!  
Road Centerline: Red  
Cruise Plots and Strip Lines: Blue  
Skid Trails: Yellow-printed

FILE - W1761 SITE PLAN MAP.dgn

DATE: 01/12/19

Standard Unit	Total Area Under Prescription	BGC-SS SBS mc2	NP Natural	AREA (ha)				NCBR >4ha	Other Deferred Area	Reserves/Patches (WTP)	NAR
				Roads	Landings (Shoo)	Other					
1	10.3	05.06.01	0	0.43	0.25	0	0			0	9.62





# APPRAISAL

WOODLOT 1761  
HARRY VANDENBERG

Region: Rupert  
District: Morice  
Mapsheet: 093 L007  
Cutting Permit: A  
Block: 1

Air Photo: 96138: 167-168  
Location: Owen Lake/Riddeck Creek F.S.R.  
Date: Nov-28/Dec-19, 2001



SCALE 1:10 000

NO DIFFERENTIAL CORRECTED  
ELEVATION MAX 10  
P.S.D.F. LESS OR EQUAL TO 3  
S.M.M. 1  
GPS DATA COLLECTED IN N.A.D. 83  
BASE MAPS ARE NEW FCN S.M.M. 83

## LEGEND

- RMA
- SMZ
- LOGGED
- WETLAND
- WFB Salvage
- WFB
- L.T. WTP
- P.C. WTP
- Woodlot Boundary
- Harvest Boundary
- Stream
- Drainage/Seepage
- Reach Break
- Standard Unit Boundary
- Standard Unit Label
- SP Plate
- Existing Road
- Existing Landings
- Existing Trail
- Proposed Road Location
- Proposed Spur
- Proposed Landings
- Gully
- Edge of Embankment
- Proposed Bridge
- Culvert
- Designated Crossing
- Culturally Modified Tree
- Air Photo Centre
- Forest Cover Polygon
- Forest Cover Label
- Contour Lines
- District Lot Label
- Inventory Region Boundary
- Compartment Boundary
- Region / Compartment Label
- PowerLine
- Timber Type Boundary
- Timber Type Label
- Measure Plot
- Ground Slope
- Riparian Reserve Zone
- Wildlife Tree Patch
- Schedule A Land
- Schedule B Land
- Special Harvest Area
- Proposed Road Construction
- Road Under Construction '99
- Existing Roads
- Existing Trail
- GPS'ED Streams

## APPRAISAL DATA

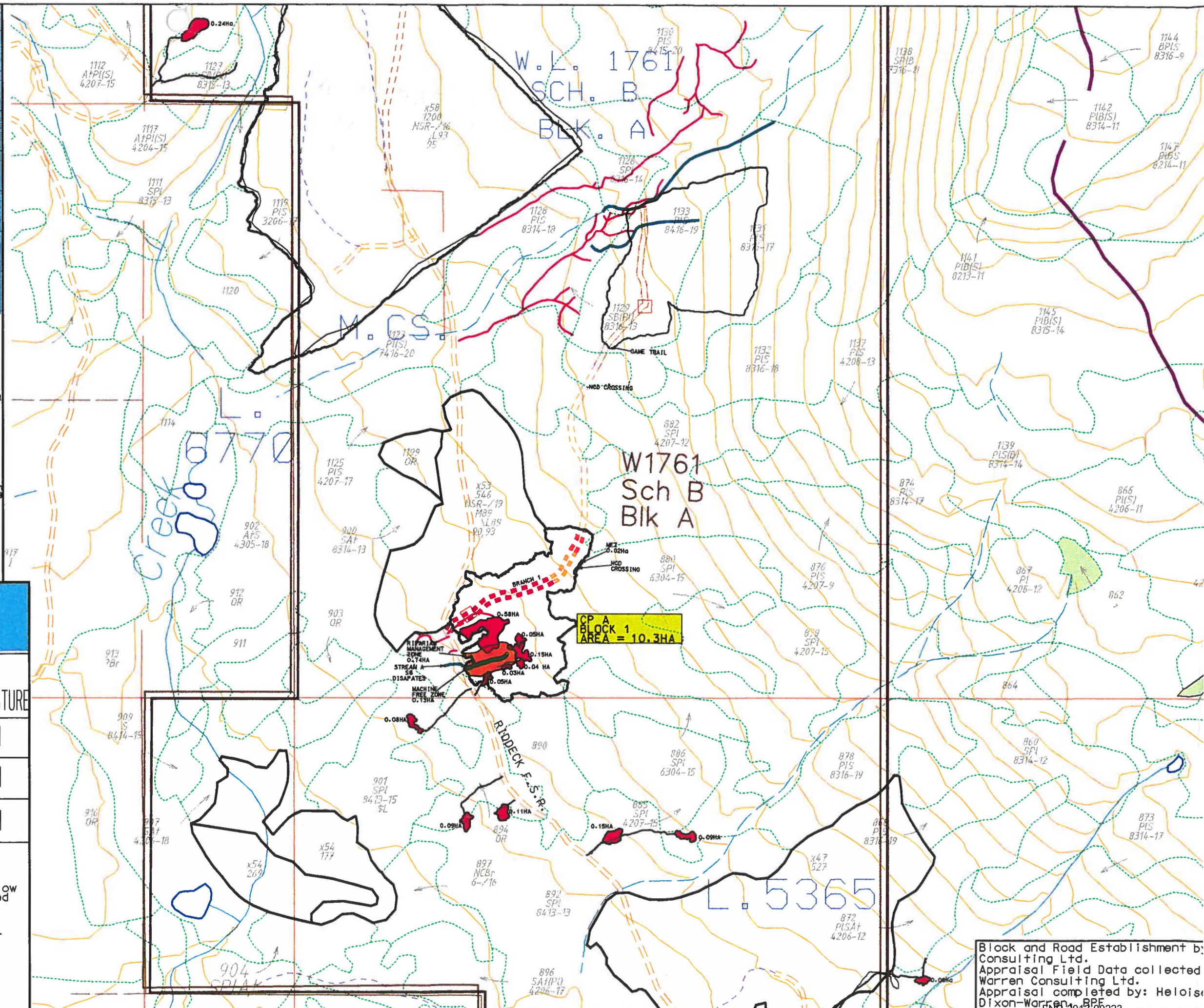
ROAD SECTION	LENGTH (M)	% SLOPE	% ROCK	MOISTURE
	300	7	15	M
	100	16	15	M
	25	12	15	M

## RIBBON COLOUR

Site Plan Plots & Strip Lines: Yellow  
Machining Free Zone: Lime Green-Printed  
Riparian Management Zone: Orange - Printed  
Block Boundary: Pink (block is not ribboned along road and opening 53-plantation)  
Road Centre Line: Red  
Cruise Plots and Strip Lines: Blue  
Skid Trails: Yellow - Printed

FILE - WL1761\_APPRAISAL.dgn

DATE: 01/12/19



Block and Road Establishment by:  
Consulting Ltd.  
Appraisal Field Data collected  
Warren Consulting Ltd.  
Appraisal completed by: Heloise  
Dixon-Warren, BPE  
ENR-2013-00223







# FOREST DEVELOPMENT PLAN MAP

WOODLOT 1761  
HARRY VANDENBERG

Region: Prince Rupert  
District: Morice  
Mapsheet: 093 L007  
Air Photo:  
96138-62-5; 96138-166-68; 96111-086-88  
Compartment: 134 . 26  
Region: 60 . 67  
Location: Owen Lake / Riddeck Creek  
F.S.R.

Date: December 19, 20, 2001



N  
SCALE 1:20 000

SCALE 1 : 20 000

30 DIFFERENTIAL CORRECTED  
ELEVATION MASK 10

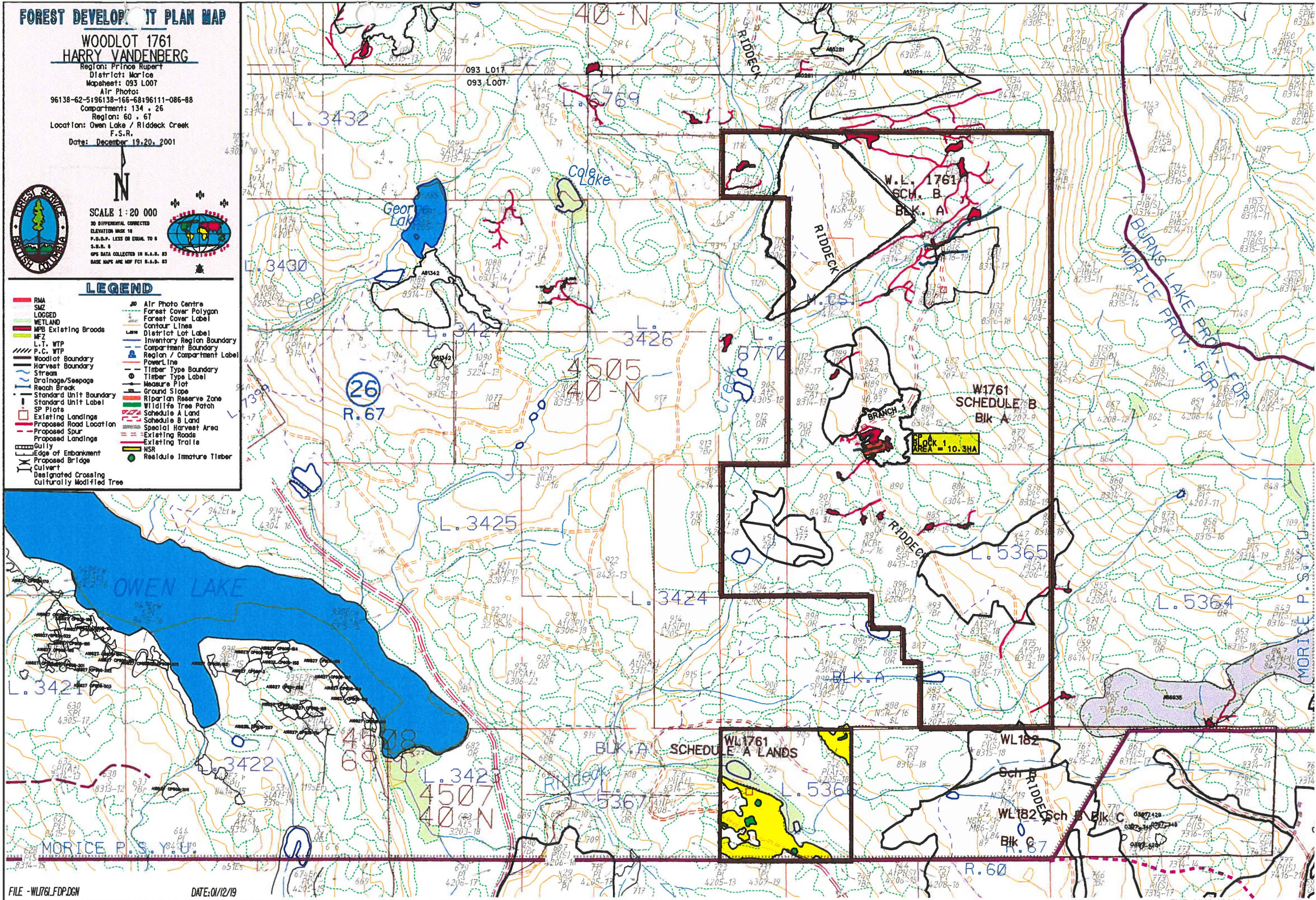
P.O.D.P. LESS OR EQUAL TO 6

**S.N.R. 6**  
**GPS DATA COLLECTED IN N.A.D.**

BASE MAPS ARE MDG FC1 H.A.D.

### LEGEND

- |  |                          |  |     |                            |
|--|--------------------------|--|-----|----------------------------|
|  | RMA                      |  | 300 | Air Photo Centre           |
|  | SMZ                      |  | 100 | Forest Cover Polygon       |
|  | LOGGED                   |  | 50  | Forest Cover Label         |
|  | WETLAND                  |  | 100 | Contour Lines              |
|  | MPB Existing Broods      |  | 100 | District Lot Label         |
|  | MPZ                      |  | 100 | Inventory Region Boundary  |
|  | L.T. WTP                 |  | 100 | Compartment Boundary       |
|  | P.C. WTP                 |  | 100 | Region / Compartment Label |
|  | Woodlot Boundary         |  | 100 | Power Line                 |
|  | Harvest Boundary         |  | 100 | Timber Type Boundary       |
|  | Stream                   |  | 100 | Timber Type Label          |
|  | Drainage/Seepage         |  | 100 | Measure Plot               |
|  | Reach Break              |  | 100 | Ground Slope               |
|  | Standard Unit Boundary   |  | 100 | Riparian Reserve Zone      |
|  | Standard Unit Label      |  | 100 | Wildlife Tree Patch        |
|  | SP Plots                 |  | 100 | Schedule A Land            |
|  | Existing Landings        |  | 100 | Schedule B Land            |
|  | Proposed Road Location   |  | 100 | Special Harvest Area       |
|  | Proposed Spur            |  | 100 | Existing Roads             |
|  | Proposed Landings        |  | 100 | Existing Trails            |
|  | Gully                    |  | 100 | NSR                        |
|  | Edge of Embankment       |  | 100 | Residue Immature Timber    |
|  | Proposed Bridge          |  | 100 |                            |
|  | Culvert                  |  | 100 |                            |
|  | Designated Crossing      |  | 100 |                            |
|  | Culturally Modified Tree |  | 100 |                            |





Following pages are  
from

W 1761-A

Legal file





Ministry of  
Forests, Lands and  
Natural Resource Operations



## BC TIMBER SALES

### APPLICATION AND TENDER FOR TIMBER SALE LICENCE A 88885 UNDER SECTION 20 OF THE FOREST ACT

This form of application and tender must be completed in full by the applicant and submitted to the Timber Sales Manager.

I/WE 0955807 BC Ltd BC0955807 00168113  
FULL LEGAL NAME (as per SBFE or BCTS Certificate) S.I.N. / INCORPORATION NO. SBFE or BCTS Reg.#  
Box 320, Houston BC V0J1Z0  
MAILING ADDRESS POSTAL CODE  
gbcltd@telus.net (250)845-0093 (250)845-0094  
E-MAIL ADDRESS TELEPHONE NO. FAX NO.

1. make this Application and tender and provide other information required in the Invitation for applications (the Invitation) for the above stated timber sale licence
2. have read and understand the Invitation, this Application and Tender for Timber Sale Licence A88885 and the associated tender package contents.
3. understand that:
  - a) the Timber Sale Licence area is Fully appraised with only one Timbermark, and
  - b) the Total Stumpage Value for this licence is: \$650,675.61
4. agree to pay the Total Stumpage Value stated above for all timber under this licence.
5. offer to pay to the government, in addition to other amounts payable under the *Forest Act* and the *Regulation*,
  - a) stumpage under Part 7 of the *Forest Act* in respect to all grades of sawlogs cut under this licence, and
  - b) a Bonus Offer in the amount of 164,000.00
6. will pay the deposits and charges upon request, and/or as specified in any applicable legislation, regulation or agreement.
7. hereby apply for a road permit if this Application is approved and if it will be necessary for me/us to construct one or more roads to access the cutting authority area.
8. declare that I/we (check one)
  - a) do ☐
  - b) do not ☒

owe money to the Government, inclusive of any repayment arrangements satisfactory to the revenue minister, in an account greater than 28 days past due.





File: 18750-20-93L 007 076  
19720-41 W1761 CP A

June 28, 2005

Harry Vandenberg,  
Owen Lake Ranch Ltd.  
Box 10,  
Houston, British Columbia  
VOJ 1Z0

Dear Harry:

In accordance with Part 3 of the *Forest Practices Code of British Columbia Act*, please be advised that the amendment to Silviculture Prescription for Wood Lot W1761 Cutting Permit A block 1 has been approved.

Yours truly,

Rena Betemps  
Resource Clerk  
Nadina Forest District

Attachment



VANCOUVER 2010  
CANDIDATE CITY

IT'S OUR TIME  
TO SHINE

Ministry of  
Forests

Nadina Forest District

Location:  
185 Yellowhead Hwy,  
Burns Lake, BC

Mailing Address:  
PO Box 3500 Stn Prov Govt  
Burns Lake, BC V0J 1E0

Tel: (250) 692-2200  
Fax: (250) 692-7461





P.O. BOX 3849 SMITHERS, B.C. V0J 2N0

PHONE: (250) 847-4822 FAX: (250) 847-4211 email: mview@mail.bulkley.net

June 14, 2005

Ministry of Forests  
Nadina Forest District  
Box 3500  
Burns Lake, B.C.  
V0J 1E0

Attention: Alison Patch

**RE: Woodlot 1761 Site Plan A-1 Amendment**

Dear Alison,

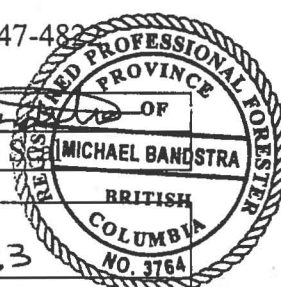
Please find enclosed a siteplan amendment for Woodlot 1761 CP A-1. The amendment serves to add Pine as a preferred species. Discussion with the original signing forester and subsequent field examination indicates Pine will perform well on site and was not excluded by design. Pine is currently a preferred species on this site series under current standards. Please find below the amended table, which replaces that found in the original prescription:

S.U.	NAR (ha)	ECOLOGICAL CLASSIFICATION	SITE SERIES	REGEN METHOD	PREFERRED SPECIES	ACCEPTABLE SPECIES
1	9.62	SBS mc 2	05 (60%) 06 (30%) 01 (10%)	Plant	Pl, Sx, Bl	N/A

Elevation Range for planting: 930-970 metres.

If you have any questions or concerns, please feel free to call our office at 847-4822

RPF Approval	Mike Bandstra	Signature & Date
	Print Name	
Designated Forest Official Approval	Alison Patch	2005-06-23
	Print Name	Signature/Date



**RATIONALE:**



## Welsh, Rena FOR:EX

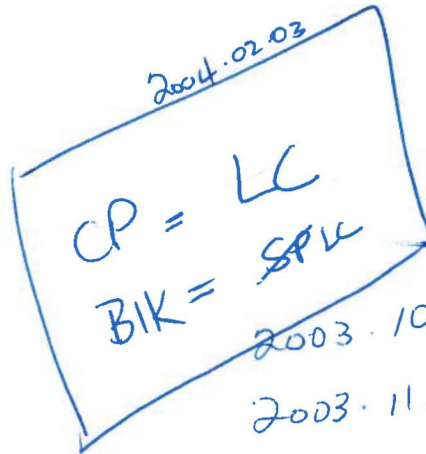
---

**From:** Patch, Alison G FOR:EX  
**Sent:** Wednesday, October 15, 2003 8:56 AM  
**To:** Wandler, Paul F FOR:EX  
**Cc:** Welsh, Rena FOR:EX  
**Subject:** W1761 CP A

Harry Vandenberg called this morning and is wondering why he is still getting rate letters for W1761 CP A when the block is complete and heading for silviculture. Could you final the block? It is still in FTAS as SP only. Thanks.

### Alison Patch

Tenures Forester  
Nadina Forest District  
phone: 250-692-2236  
fax: 250-692-7461  
mailto:Alison.Patch@gems9.gov.bc.ca



2003.10.24 - Status SP remains

2003.11.10 - no change.

Done - 2004.02.03



double signed.



OFFICE: Morice District

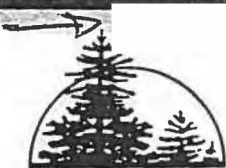
MINISTRY OF FORESTS  
Payment Transmittal Sheet

Date: 2003/03/10  
Sheet No. \_\_\_\_\_

TR-LAKE-18

PAYOR	AMOUNT	COMMENTS
1 Domino Logging	\$649.50	Rent of W1761A, invoice # A043626 Client Acct # 00100616 00 Please provide receipt
2		
3		
4		
5		
6		MAILED: Terrie-Lynne @ Region 10 March 03
7		
8		
9		
10		
11		
12		
13		





s.21

Domino Logging  
Box 127  
Houston, B.C. V0J 1Z0  
Tel: (250) 845-7073

s.21

March 7, 2003  
DATE

PAY to Ministry of Finance  
the order of

\$ 649.50

SIX HUNDRED & FORTY-NINE

50 DOLLARS Security features included.



ROYAL BANK OF CANADA  
HOUSTON BRANCH  
3232 W YELLOWHEAD HWY 16  
HOUSTON, BC V0J 1Z0

Domino Logging

RE Rent of W1761A  
from March 31/03 - March 31/04

PER

s.21

IF THIS DOCUMENT CONTAINS SECURITY FEATURES - SEE REVERSE





File: 19720-45/W1761, CP A

May 31, 2002

Owen Lake Ranch Ltd.  
Box 10  
Houston, British Columbia  
V0J 1Z0

Dear Harry Vandenberg:

Enclosed is your copy of Cutting Permit A, issued in accordance with Section 1.02(b) of Woodlot Licence 1761.

1. You must notify a Forest Official/Forest Officer five (5) days prior to commencement of block operations.
2. A markholder letter must be submitted annually to the Morice District Scaling Supervisor and approved prior to hauling of timber, unless stratums and scale site(s) were previously approved under a current stratification plan.
3. Exemption from 100% hammer marking is hereby granted.
4. The Trapper/Guide Outfitter identified in paragraph 2.00 of Schedule 'A' must be informed of your harvesting schedule.



Before operations commence on the cutting permit, please read the cutting permit document and be prepared to comply with all conditions.

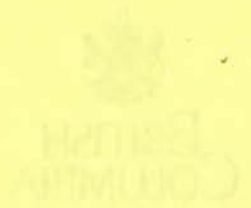
This letter forms an integral part of the cutting permit document and should be attached to it.

Yours truly,

Dave Nakashoji  
Field Operations Supervisor

Enclosure





THE GOVERNMENT OF BRITISH COLUMBIA

MINISTER OF FORESTRY

OFFICE OF THE MINISTER

1000 - 1000

VICTORIA, B.C.

FOR THE MINISTER

1000 - 1000

1000 - 1000

1000 - 1000

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1000 - 1000

1000 - 1000

1000 - 1000

1000 - 1000

*[Handwritten signature]*





**WOODLOT LICENCE NO. 1761**  
**CUTTING PERMIT NO. A**



PURSUANT TO Woodlot Licence No. (the "Licence"), this Cutting Permit is issued to:

**Owen Lake Ranch Ltd.**  
**Box 10**  
**Houston, British Columbia**  
**V0J 1Z0**

(the "Licensee")

**1.00 PERMIT AREA AND TERM**

- 1.01 Subject to the Licence and the Acts, regulations and standards referred to in paragraph 10.01 of the Licence, the Licensee is authorized to harvest timber from the lands within the Licence Area that are designated for harvest on the map attached as Exhibit "A" to this Cutting Permit.
- 1.02 Subject to paragraph 1.03, the term of this Cutting Permit is, **beginning on May 31, 2002, and ending on May 30, 2007.**
- 1.03 The District Manager, in a notice given to the Licensee, may
  - (a) extend the term of this Cutting Permit, and
  - (b) if he or she does so, amend this Cutting Permit to the extent necessary to ensure it is consistent with the forest development plan in effect at the time this Cutting Permit is extended.

**2.00 SPECIAL CONDITIONS AND REQUIREMENTS**

- 2.01 The Licensee must comply with the conditions and requirements set out in Schedule "A" to this Cutting Permit.

**3.00 FELLING, BUCKING AND UTILIZATION SPECIFICATIONS**

- 3.01 Subject to paragraph 3.04, the Licensee must
  - (a) fell standing timber of the species specified in Schedule "B" to this Cutting Permit, in accordance with the felling specifications set out in that Schedule,
  - (b) buck felled and dead-and-down timber of the species referred to in paragraph (a) in accordance with the bucking specifications set out in Schedule "B" to this Cutting Permit, and
  - (c) utilize all timber of the species and grades specified as obligatory utilization in Schedule "B" to this Cutting Permit if the timber meets the utilization specifications set out in that Schedule.



- 3.02 Schedule "B" to this Cutting Permit may include a requirement that the Licensee fell other timber in addition to the timber referred to in paragraph 3.01(a), in which case, subject to paragraph 3.04, the Licensee must fell but need not utilize such timber.
- 3.03 Subject to paragraph 3.04, the Licensee may utilize
- (a) timber of the species and grades specified as optional utilization in Schedule "B" to this Cutting Permit, and
  - (b) timber referred to in paragraph 3.02.
- 3.04 The Licensee must not fell standing timber, or must not buck or utilize felled or dead-and-down timber, as the case may be, if
- (a) the timber is specified as reserved timber in Schedule "B" to this Cutting Permit, or
  - (b) under an operational plan or the Acts, regulations or standards referred to in paragraph 10.01 of the Licence, the Licensee is required not to fell the timber, or not to buck or utilize the timber, for any reason, including silviculture, biodiversity or other forest management reasons.

#### **4.00 TIMBER MARK**

- 4.01 The timber mark(s) for timber harvested from Schedule A Land under this Cutting Permit is/are:
- N/A
- 4.02 The timber mark(s) for timber harvested from Schedule B Land under this Cutting Permit is/are:
- W17**  
**61A**
- 4.03 The Licensee must erect signs at all exits from the areas of land referred to in paragraph 1.01, clearly showing the timber mark(s) referred to in paragraphs 4.01 and 4.02.

#### **5.00 SCALE-BASED STUMPAGE**

- 5.01 For the purpose of determining the amount of stumpage payable in respect of timber harvested from the areas of Schedule B Land authorized for harvest under this Cutting Permit, the volume or quantity of timber harvested will be determined using information provided in a scale of the timber.
- 5.02 The Licensee must ensure that
- (a) all timber harvested from the areas of land referred to in paragraph 1.01 is scaled, and



- (b) the scale of the timber is conducted properly in accordance with the requirements of the *Forest Act* and the regulations made under that Act.

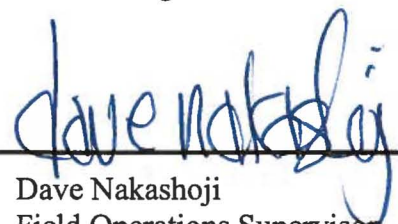
## **6.00 ROADS**

- 6.01 Subject to the Licence and the Acts, regulations and standards referred to in paragraph 10.01 of the Licence, the Licensee may construct or modify roads under the authority of this Cutting Permit on areas of Schedule B Land authorized for harvest under this Cutting Permit if the roads are identified on an operational plan.

## **7.00 MISCELLANEOUS**

- 7.01 The Exhibit and the Schedules to this Cutting Permit are deemed to be part of this Cutting Permit.
- 7.02 As provided in the Licence, this Cutting Permit is deemed to be part of the Licence.
- 7.03 The Licence will govern the interpretation of this Cutting Permit.

DATED May 31, 2002

  
Dave Nakashoji  
Field Operations Supervisor  
Morice Forest District



## **SCHEDULE "A"**

### **SPECIAL CONDITIONS AND REQUIREMENTS**

#### **1.00 Orderly Condition**

- 1.01 The Licensee shall, concurrently with harvesting operations, leave all areas in an orderly and sanitary condition.

#### **2.00 Other Occupiers of Land**

- 2.01 The rights granted under this permit are subject to other rights of use and occupation, and the Licensee must not interfere with exercise of those rights.
- 2.02 The rights of use and occupation referred to in paragraph 1.01 of the permit document are as follows:
- (a) Trapper number 608T008
  - (b) Guide number 609G003.

#### **3.00 Direction for Controlling MPB or SB Beetle Infestation**

- 3.01 The Licensee must comply with any direction of the District Manager for the purpose of controlling beetle infestation.
- (a) Logging must be completed prior to the estimated yearly flight period of the Mountain Pine Beetle and Spruce Bark Beetle as determined by the Forest Officer, unless otherwise authorized in writing by the Forest Officer.
  - (b) All felled and decked material is to be removed yearly from the logged areas and must be removed prior to the estimated yearly flight period of the Mountain Pine Beetle and Spruce Bark Beetle as determined by the Forest Officer, unless otherwise authorized in writing by the Forest Officer.
  - (c) No hauling of wood is to be done during the flight period of the Mountain Pine Beetle or Spruce Bark Beetle as determined by the forest Officer, unless otherwise authorized in writing by the Forest Officer.
  - (d) All infested Pine and Spruce trees must be removed from the licence area and must be processed in a wood processing plant prior to July 15, unless otherwise authorized in writing by the Forest Officer



**4.00 Hazard Trees**

- 4.01 The hazard tree felling area surrounding the cutblock boundary(s) identified on the attached map as Exhibit "A", is subject to an exemption from the requirement for a forest development plan as provided under Section 28 (1)(a)(i) of the *Forest Practices Code of British Columbia Act*, for the purposes of hazard tree felling. The hazard tree felling area extends thirty-five (35) metres beyond the cutblock boundary(s).
- 4.02 The Licensee may fell trees outside of the cutblock boundary(s) but within the area described in paragraph 4.01 if the person conducting tree felling or rigging tail hold/anchor trees determines that the tree represents a safety hazard according to Workers' Compensation Board standards.
- 4.03 The Licensee must not buck or utilize a tree felled under paragraph 4.02 without the consent of the District Manager.
- 4.04 If consent is granted under paragraph 4.03, the felled hazard tree(s) shall be bucked and utilized according to the standards specified in Schedule "B" of this authority, unless otherwise directed by the District Manager.

**5.00 Falling or Yarding Adjacent to Young Growth**

- 5.01 All trees must be felled so that they fall within the area of land referred to in paragraph 1.01 of the Licence, and any slash must not be left or allowed to accumulate within twenty (20) metres of any boundaries of areas on which cutting is authorized.

**6.00 Full Tree Skidding**

- 6.01 Within designated areas, the Licensee must full tree skid or yard all felled trees to landings as approved in the logging plan and there must dispose of the limbs and tops as instructed by the District Manager.

**7.00 Commencement Date**

- 7.01 The Licensee must advise the Compliance and Enforcement Officer designated for your Woodlot Licence, of the date harvesting will commence on cut block(s) at least five days before the commencement.



## **SCHEDULE "B"**

### **INTERIOR**

#### **FELLING, BUCKING AND UTILIZATION SPECIFICATIONS**

##### **1.00 FELLING SPECIFICATIONS**

- 1.01 Subject to paragraph 1.02, standing timber of the species shown on the table attached to this Schedule must be felled in accordance with the following specifications:
- (a) all timber meeting the minimum diameter at stump height shown for that species in the table attached to this Schedule must be felled; and
  - (b) unless otherwise authorized in writing by the District Manager, timber must be felled to a stump height that does not exceed the maximum stump height shown for that species in the table attached to this Schedule.
- 1.02 The Licensee must not fell standing timber if
- (a) under an operational plan or the Acts, regulations or standards referred to in paragraph 10.01 of the Licence, the Licensee is required not to fell the timber for any reason, including silviculture, biodiversity or other forest management reasons.

##### **2.00 BUCKING SPECIFICATIONS**

- 2.01 Subject to paragraph 2.02, felled and dead-and-down timber of the species referred to in paragraph 1.01 must be bucked so as to maximize the volume of logs and slabs which
- (a) meet the utilization specifications referred to in paragraph 3.01, and
  - (b) are of the species and grades specified as obligatory utilization under Part 4.00.
- 2.02 The Licensee must not buck felled or dead-and-down timber if
- (a) under an operational plan or the Acts, regulations or standards referred to in paragraph 10.01 of the Licence, the Licensee is required not to buck the timber for any reason, including silviculture, biodiversity or other forest management reasons.



### **3.00 UTILIZATION SPECIFICATIONS**

- 3.01 Subject to paragraphs 3.02 and 3.03, the following utilization specifications apply to timber authorized for harvest under this Cutting Permit:
- (a) all butt logs meeting
    - (i) the minimum diameter at stump height,
    - (ii) the minimum log length, and
    - (iii) the minimum top diameter
 shown for that species in the table attached to this Schedule must be utilized; and
  - (b) all top logs meeting
    - (i) the minimum log length, and
    - (ii) the minimum top diameter
 shown for that species in the table attached to this Schedule must be utilized;
  - (c) all slabs meeting
    - (i) the minimum slab length, and
    - (ii) the minimum slab thickness
 shown for that species in the table attached to this Schedule must be utilized.
- 3.02 The Licensee need not utilize timber of the species and grades specified in Part 5.00 as optional utilization.
- 3.03 The Licensee must not utilize timber if
- (a) under an operational plan or the Acts, regulations or standards referred to in paragraph 10.01 of the Licence, the Licensee is required not to utilize the timber for any reason, including silviculture, biodiversity or other forest management reasons.

### **4.00 OBLIGATORY UTILIZATION**

- 4.01 Timber of the following species and grades is specified as obligatory utilization:
- (a) all coniferous species that are Sawlog Grade.

### **5.00 OPTIONAL UTILIZATION**

- 5.01 Timber of the following species and grades is specified as optional utilization:
- (a) firmwood rejects;
  - (b) all deciduous species of all grades; and
  - (c) all coniferous species of the following grades:
    - (i) Lumber Reject (Grade Code 4);



- (ii) Dead and Dry Lumber Reject (Grade Code 5): and
- (iii) Undersized Log Grade (Grade code 6).

## **6.00 DEFINITIONS**

6.01 In this Schedule, as exemplified by the diagrams attached to this Schedule,

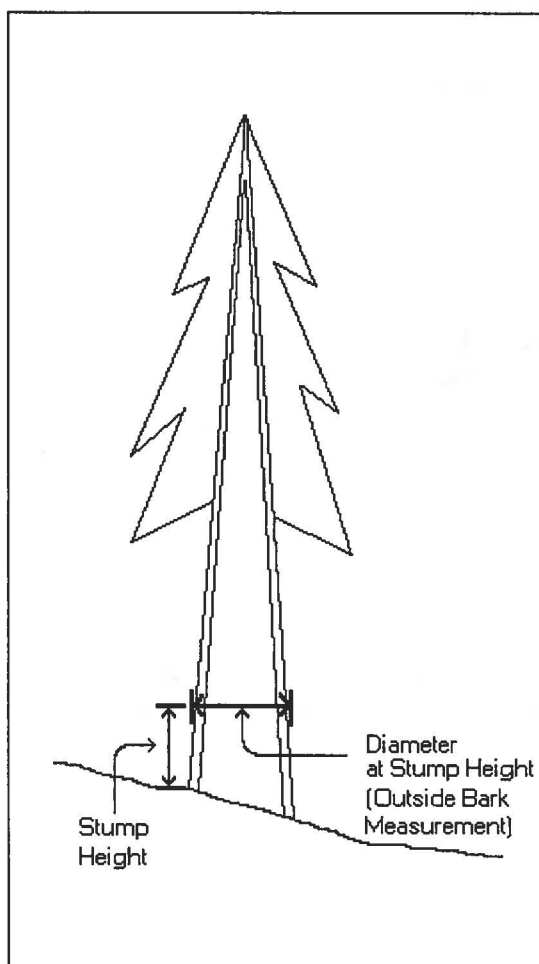
- (a) "butt end" means the log end that was previously attached to the stump;
- (b) "butt log" means the log cut from the portion of the tree that was previously attached to the stump;
- (c) "diameter at stump height" means
  - (i) in the case of standing timber, the diameter of the tree (outside bark) measured at the point of the maximum stump height shown in the table attached to this Schedule, and
  - (ii) in the case of a butt log, the diameter (outside bark) at the butt end of the log; and
- (d) "slab" means one of 2 or more parts of a log produced as a result of the log fracturing along its length;
- (e) "stump height" means the height of the stump measured on the side of the stump adjacent to the highest ground;
- (f) "top diameter" means the diameter (inside bark) at the narrowest end of the log;
- (g) "top log" means any log that is not a butt log.



## SCHEDULE "B" - Interior

### Diagrams and Tables for Block(s)

#### 1. Falling Specifications



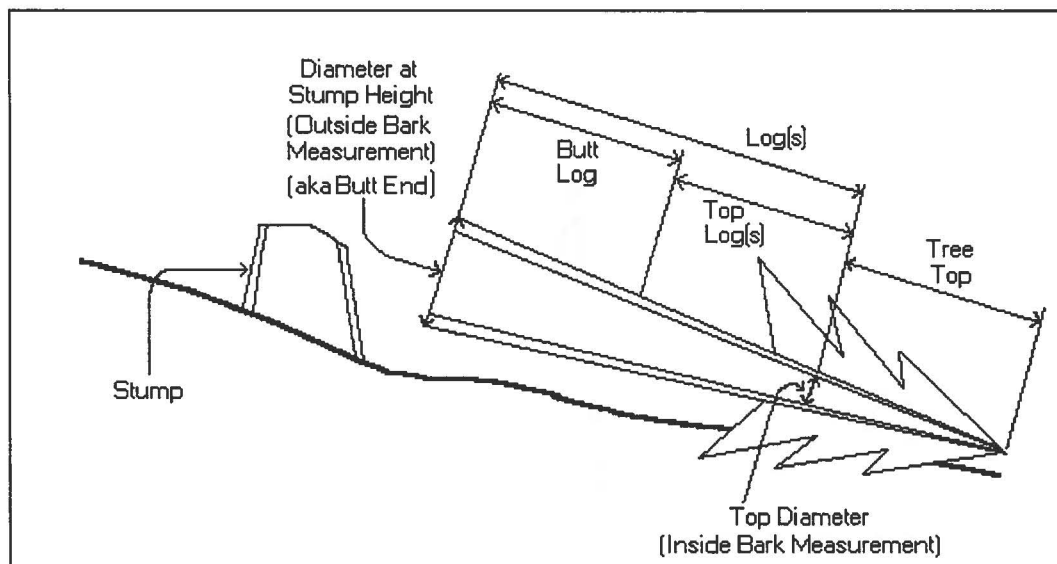
Species	Maximum Stump Height	Minimum Diameter at Stump Height
Pine	30 cm	15 cm
Spruce	30 cm	20 cm
Balsam	30 cm	20 cm



## SCHEDULE "B" - INTERIOR

### Diagrams and Tables for Block(s)

#### 2. Utilization Specifications



Species	Minimum Log or Slab Length	Minimum Diameter at Stump Height	Minimum Top Diameter or Slab Thickness
Pine	3.0 m	15 cm	10 cm
Spruce	3.0 m	20 cm	10 cm
Balsam	3.0 m	20 cm	10 cm





File: 19720-46/W1761 CP A

April 17, 2002

Harry Vandenberg  
Box 10  
Houston, British Columbia  
V0J 1Z0

Dear Harry Vandenberg:

Attached is your copy of the approved Woodlot Licence Road Layout and Design for Cutting Permit A, submitted to our office April 11 2002.

Please ensure this letter remains attached to your document as it now forms an integral part of it.

If you have any questions, please contact Mary Robinson at (250) 845-6209.

Yours truly,

Dennis Singer, R.P.F  
Acting District Manager

Attachments



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• THE GOVERNMENT OF BRITISH COLUMBIA IS AN "EMPLOYMENT EQUITY EMPLOYER" •

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Ministry of  
Forests

Morice Forest District

Location:  
2430 Butler Avenue  
Houston, BC

Mailing Address:  
Bag 2000  
Houston, BC V0J 1Z0

Tel: (250) 845-6200  
Fax: (250) 845-6276





THE GOVERNMENT OF BRITISH COLUMBIA

MINISTER OF REVENUE

1100 WATERLOO STREET

VICTORIA, BRITISH COLUMBIA

V8W 2K6

TEL: (250) 386-3000

FOR INFORMATION: THE GOVERNMENT OF BRITISH COLUMBIA IS CURRENTLY REVIEWING THE PROPOSAL FOR A NEW TAX ON THE SALE OF REAL ESTATE. THE PROPOSAL IS BEING REVIEWED BY THE REVENUE COMMISSION AND THE LEGISLATIVE ASSEMBLY.

IF YOU HAVE ANY COMMENTS OR QUESTIONS, PLEASE CONTACT THE REVENUE COMMISSION AT (250) 386-3000.

THE GOVERNMENT OF BRITISH COLUMBIA

2013

2013-00223

2013-00223



Woodlot 1761  
Owen Lake Ranch  
Mr. Harry Vandenberg  
CPA  
April 10, 2002

**WOODLOT LICENCE ROAD LAYOUT AND DESIGN**  
**SCHEDULE FS 1178(A1)**

Road Permit ☐ N/A  
Cutting Permit ☒ A  
Special Use Permit ☐ N/A

Amendment Number: N/A

Road Name/Reference: Branch 1

1. As required by Woodlot Licence Forest Management Regulation (WLFMR) Section 43(6)(f), the revegetation specifications shall be: Application of Ministry of Forests approved erosion control grass seed which will be applied at a rate of 10 kg/ha. Seed to be applied in spring follow harvest.
2. Actions for protecting the known non-timber forest resources shall be:  
N/A
3. The following; geometric road design(s), other drawings, maps and prescription/reports, including measures to maintain slope stability (and any required analysis) in areas of moderate or high likelihood of landslides or measures to maintain water quality in a community watershed where the surface soil erosion hazard is high or very high are submitted with the application and form an integral part of the permit: N/A
4. The following statement is ☐ applicable ☒ not applicable:  
There is new road encroachment within a riparian management zone or riparian reserve zone [reference WLFMR, Section 43(3)&(5)] and this is clearly shown on the accompanying map.
5. Road Widening on Curves: the widening required on curves shall be that:  
☒ provided in the Guidebook, or ☐ provided in the table below

Radius of Curve (m)	180	90	60	45	35	25	20	15
Minimum Subgrade Width Required								

6. The maximum dimensions and weights of the intended loaded vehicle for use on the road are:  
☐ conforms to Ministry of Transportation and Highways regulations  
☒ Other. If other, complete the following:
  - Length 30.5 m
  - Width 3.24 m
  - Height 5.5 m
  - Overhang beyond rear trailer bunk 12 m
  - Weight Axle (tandem) 13,400 kg
  - GVW: 5 axle 67,000 kg
  - 6 + axles 74,500 kg.







## WOODLOT LICENCE ROAD LAYOUT AND DESIGN SCHEDULE FS 1178(A1)

Complete any or all sections on this page only where plan/profiles are not prepared or where plan/profiles are deficient of necessary information. Sections 8 to 20 must be completed to show whether the item is either a standard specification or a variation from the standard specification.

7.	<b>ROAD NAME/SECTION NUMBER &amp; LENGTH / MAP AND EXHIBIT A REFERENCE</b>	Branch 1 0+000 – 0+500			
		<sup>1</sup> Standard Specification	Variation from Standard Specification		
8.	<b>ROAD TYPE:</b> (PERMANENT/SNOW/PLANNED 5-YEAR/ ONE-SEASON WINTER)	Permanent			
9.	<b>STUMPS/ROOTS/LOGS IN ROAD PRISM (YES OR NO)</b>	No			
10.	<b>CORDUROY/PUNCHEON/INVERTED STUMPS IN ROAD PRISM (YES OR NO)</b>	No			
11.	<b>ROAD SUBGRADE WIDTH:</b> (m)	6m			
12.	<b>RIGHT OF WAY WIDTH:</b>	10 metres			
13.	<b>TURNOUTS:</b> MAXIMUM DISTANCE BETWEEN (m)	350 metres			
14.	<b>TURNOUTS:</b> USABLE LENGTH /WIDTH (m/m)	6/10 metres			
15.	<b>MINIMUM CURVE RADIUS:</b> (m)	65 metres			
16.	<b>MAXIMUM SUSTAINED GRADE:</b> ADVERSE (%)	5			
17.	FAVOURABLE (%)	12			
18.	<b>MAXIMUM SHORT PITCH GRADE:</b> ADVERSE (%)	5			
19.	FAVOURABLE (%)	16			
20.	<b>MINIMUM CROSS-DRAIN CULVERT SIZE:</b> ROUND PIPE (mm)	400 mm			
21.	<b>OTHER CULVERT SHAPES – OPENING SIZE (mm / mm)</b>	500 mm			

<sup>1</sup> The standard specifications reflect the WL holder's normal design criteria, and will apply to the roads under consideration unless a variation to the standard specification is provided in the remaining columns. There is no need to reproduce previously submitted standard specifications here.







## WOODLOT LICENCE ROAD LAYOUT & DESIGN SCHEDULE FS 1178(A2)

### BRIDGES, STREAM CULVERTS, AND ENGINEERED STRUCTURES TABLE

Road Permit ☐ Amendment No. \_\_\_\_\_ Cutting Permit ☒ A Special Use Permit ☐

ROAD NAME	CLASS OF STRUCTURE	DESIGN LOAD	STRUCTURE LOCATION. (KM)	STREAM NAME & RIPARIAN CLASS	FISH STREAM IN A COMMUNITY WATER-SHED? (Y OR N)	STRUCTURE SIZE (Length x height)	GENERAL ARRANGEMENT DRAWING NO.	COMMENTS
Branch 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b><u>Class of Structures Legend</u></b>						<b>Notes:</b>		
<b>H</b> (retaining wall <1.5 m) <b>R</b> (retaining wall >1.5 m) <b>FD</b> (ford) <b>CG</b> Cattleguard <b>Other</b> (e.g. engineered fill with geotextile)  <b>Bridges:</b> <b>BT</b> (Bridge Temporary) (life up to 15 years at the specified location) <b>BP</b> (Bridge Permanent) (life greater than 15 years at the specified location)		<b>Culverts</b>  <b>Pipe</b> <b>Log</b>		All structures indicated "*" (in structure location column), upon termination or cancellation of the permit (see clause 2.03 in the road permit), may be removed and re-used by the road permit holder  Specify design load of bridge structures (e.g. L75, L100, etc.) A professional engineer must design retaining walls > 1.5 m. Structure size - for bridges show length and height of abutment; for culverts show opening dimensions. Refer to Section 46 of the WLFMR for design responsibility. Attach a General Arrangement drawing for each bridge/major culvert				



Woodlot 1761  
Owen Lake Ranch  
Mr. Harry Vandenberg  
CPA

April 10, 2002

**WOODLOT LICENCE ROAD LAYOUT AND DESIGN ASSESSMENTS SCHEDULE FS 1179(1)  
RIPARIAN, VISUAL, ARCHAEOLOGICAL  
AND SOIL EROSION FIELD ASSESSMENTS**

Road Permit ☐ N/A  
Cutting Permit ☒ A  
Special Use Permit ☐ N/A

Amendment Number: N/A

Road Name/Reference: Branch 1

Tick ☐ to validate statements.

☒ None of the assessments or other information described below are required.

  
Printed Name & Signature of WL holder or authorized representative

03/04/11  
Date

**OR**

**As required by the Woodlot Licence Forest Management Regulation section 43 (1)&(2) and 45(1)**

An "assessment" or information to demonstrate to the satisfaction of the DM that the proposed road construction or modification in a scenic area is consistent with the established visual quality objectives is ☐ required, ☒ not required

An assessment to determine the riparian classes of streams, wetlands and lakes that are in or adjacent to the proposed road or road work is ☐ required, ☒ not required

An assessment to identify fish streams in community watersheds that are in or adjacent to the proposed road or road work is ☐ required, ☒ not required

☐ the stream will default to being a fish stream without an assessment to confirm the presence or absence of fish.

An archaeological impact assessment necessary to adequately manage and conserve archaeological sites in the area affected by the road or road work is ☐ required, ☒ not required

A soil erosion field assessment in a community watershed is ☐ required, ☒ not required

Each of the above assessments indicated as being required, has been carried out, and the road layout and design is consistent with the results and recommendations of the assessments.

\_\_\_\_\_  
Printed Name & Signature of the WL holder or authorized representative

\_\_\_\_\_  
Date

**NOTE:** A signature and seal of a registered professional forester is not required by the WLFMR, but may expedite the approval of the road layout and design.



Woodlot 1761  
Owen Lake Ranch  
Mr. Harry Vandenberg  
CPA  
April 10, 2002

**WOODLOT LICENCE ROAD LAYOUT & DESIGN ASSESSMENTS SCHEDULE FS 1179(2)**  
**TERRAIN STABILITY FIELD ASSESSMENT AND MEASURES**

Road Permit  
Cutting Permit

☐ N/A  
☒ A

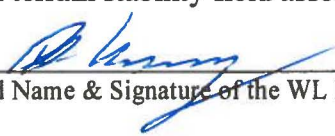
Amendment Number:  
Special Use Permit

☐ N/A  
☐

Road Name/Reference: Branch 1

***Terrain Stability:***

☒ A terrain stability field assessment is not required

  
Printed Name & Signature of the WL holder or authorized representative

02/04/11  
Date

**OR**

**As required by the Woodlot Licence Forest Management Regulation section 44,**

A terrain stability field assessment has been carried out and one of the following two statements applies (tick one box):

- ☐ the terrain stability field assessment indicated that the road is not in any areas identified as having a moderate or high likelihood of landslides (this includes "adjacent" areas impacted by the road), or
- ☐ for areas shown in that assessment as having a moderate or high likelihood of landslides, the proposed measures to maintain slope stability are included in the geometric road design.

A signed and sealed statement by a qualified registered professional indicating that the road construction or modification has been carried out in general conformance with the road layout and design (tick one box)

☐ will be required on the following sections of the road:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

OR

☐ will not be required

With respect to a measure to maintain slope stability, referred to above, either the designer (tick one box):

- ☐ has stated that the measure is the one that is least likely to result in a landslide occurrence; or
- ☐ has prepared an analysis of the likelihood of a landslide occurrence, the potential consequences of a landslide, and the nature of any remedial actions that would be required after a landslide.

Printed Name, Signature and Seal of Qualified Registered Professional

\_\_\_\_\_  
Date

(Note: The qualified registered professional must have suitable skills and experience to recognize that the proposed measures to maintain slope stability have been included in the geometric road design. The qualified registered professional may or may not be the person who prepared the geometric road design.)







Woodlot 1761  
Owen Lake Ranch  
Mr. Harry Vandenberg  
CP A  
April 10, 2002

**WOODLOT LICENCE ROAD LAYOUT & DESIGN SCHEDULE FS 1179(3)**

**ROAD SUBGRADE PREPARATION**

Road Permit ☐ N/A Amendment Number: N/A  
Cutting Permit ☒ A  
Special Use Permit ☐ N/A Road Name/Reference: Branch 1

**As required by the Woodlot Licence Forest Management Regulation sections 43(6)(d) 47.2 and 48(1)(b)**

Tick the appropriate ☐ to validate each statement covered by the signature below.

1. The area of proposed road construction has a moderate or high likelihood of landslides.  
☐ applicable ☒ not applicable (If "not applicable" 2, 3 or 4 are allowed. If "applicable" only 5 is allowed.)
2. Stumps, roots and embedded logs are to be left or placed in the road prism on the outside of the road subgrade width on the downhill side, and I have reasonable grounds to believe that doing so will not significantly increase the risk of a failure of the road subgrade. [Reference Sections 43(6)(d) and 47.2(1)]  
☒ applicable ☐ not applicable
3. Stumps, roots and embedded logs are to be left or placed in the road prism within the road subgrade width, and I have reasonable grounds to believe that doing so will not significantly increase the risk of a failure of the road subgrade. [Reference Sections 43(6)(d) and 47.2(2)]  
☐ applicable ☒ not applicable
4. Inverted stumps and corduroy or puncheon are to be placed in the road subgrade width to support the fill material and the required vehicle loads. I have reasonable grounds to believe that doing so will not significantly increase the risk of a failure of the road subgrade. [Reference Sections 43(6)(d) and 47.2(3)]  
☐ applicable ☒ not applicable
5. Stumps and logs are to be used as retaining structures under or against the fill as a measure to maintain slope stability that has been prepared by a qualified registered professional for a road on a site with moderate or high likelihood of landslides. I have reasonable grounds to believe that doing so will not significantly increase the risk of a failure of the road subgrade [Reference Sections 43(6)(d) and 48.1(1)(b)]  
☐ applicable ☐ not applicable

**Road Layout & Design,**

**Woodlot Licence Forest Management Regulation  
Section 43(6)(g)**

I am the Woodlot Licence holder (or authorized representative) required by legislation to prepare this road layout and design, and I confirm that the submission is complete.

ED Vandenberg  
Name

[Signature]  
Signature

02/04/11  
Date

**NOTE:** Signature applies to entire road layout and design package that is submitted for approval.







## WOODLOT LICENCE SITE PLAN

Woodlot Licence	1761	Cutting Permit	A	Block	1	Opening #	03L.007 -
Total Area (ha)	10.30	NAR (ha)	9.62	Non-Prod. Natural (ha)	N/A	Non-Prod. Un-Nat. (ha)	0.68
Area of Reserve (ha)	N/A	Type of Reserve	N/A	Air Photo #s	96138: 167 - 168		
Harvest Method	Ground based harvesting - feller buncher/FB or handfelling (HF) with grapple or line skidding to landing on dry or frozen soils or on snowpack.						
Silvicultural System	Clearcut. All At (trembling aspen/ <i>Populus tremuloides</i> ) are not to be harvested. Immature trees are to retained wherever possible. It is anticipated that the leave trees will not be uniformly distributed over the cut over area.						

**Note:** Small Scale Salvage harvesting has occurred within this block resulting in both patches and skid trails. The total area harvested is 0.94 ha. Five patches ranging from 0.03 ha. to 0.58 ha. exist within the block whereas one patch totalling 0.05 ha. is only partially within the block. The total area comprised of patches and skid trails is respectively 0.86 ha. and 0.08 ha. (210 metres at 4 metres width). These areas have been included in the NAR.

SU	NAR (ha)	Biogeoclimatic Ecosystem Classification				Regeneration Method	Preferred Species	Acceptable Species
		Zone	Subzone	Variant	Site Series			
1	9.62	SBS	mc	2	05 <sub>80</sub> 06 <sub>30</sub> 01 <sub>10</sub>	Plant	Sx (hybrid white spruce), BI (subalpine fir)	N/A
Elevation range if planting is specified 930-970 metres								

## STOCKING SPECIFICATIONS FOR SILVICULTURAL SYSTEMS OTHER THAN SINGLE TREE SELECTION

These Stocking Specifications are consistent with the Woodlot Licence Forest Management Regulation (November, 1998) Division 2 of Part 6 and Table A of Schedule A.

SU	Regen. Date (yrs)	FG Date (yrs)	MITD (m)	TSS (sph)	MSSpa (sph)	MSSp (sph)	Maximum Density (sph)	Post Spacing Density (sph)	Min. FG Ht. by Species		Crop Tree to Brush Ratio (%)
									Species	Ht (m)	
1	4	15	1.5	1200	700	600	10,000	2,000	PI Other (Sx, BI)	1.6 0.8	150

## PERMANENT ACCESS STRUCTURES

Rationale for greater than 7% of the total cutblock area being occupied by permanent access structures:

The percent area occupied by permanent access structures equates to 6.6%.

Roads	Length (m)	425	Width (m)	10	Area (ha)	0.43	
Landings	Length (m)	50	Width (m)	50	Area (ha)	0.25	
Other (Identify)	Length (m)	N/A	Width (m)	N/A	Area (ha)	N/A	
Total Cutblock Area (ha)		10.30	Total Area of Permanent Access (ha)		0.68	Maximum % of the Total Cutblock Area to be Occupied by Permanent Access Structures	6.6
Trails that will be used for repeated harvest entries are proposed as permanent access structures.						No	
Roads, landings, borrow pits, or quarries within this cutblock are proposed for rehabilitation						No	



SOIL DISTURBANCE		
Maximum Percentage of the Net Area to be Reforested to be occupied by Soil Disturbance (% of NAR)	5	
Rationale for greater than 5% of the NAR being occupied by soil disturbance N/A		
Compaction Hazard	VH	Erosion Hazard M
		Displacement Hazard L-M

WILDLIFE TREE STRATEGY	
Describe proposed wildlife trees and wildlife tree patches	
Selection Criteria	<ul style="list-style-type: none"> <li>All mature deciduous trees (e.g. At/trembling aspen) shall be retained on-site as residuals unless they impede access or must be fallen for safety. Should they be harvested, they shall be left on-site as CWD.</li> <li>An average of 3-5 stubs/ha. (3-5 metres in height) shall be retained throughout the block. To determine trees to be retained as stubs, preference will be given to those trees which display wildlife values.</li> <li>Individual and clumps of immature (saplings and regeneration) trees shall be left on-site where possible. To be retained these trees must display good health, form and vigour. These trees shall provide some shelter for wildlife in addition to enhancing the vertical and horizontal structure of the regenerating stand.</li> <li>Although no WTP has been associated with this block, approximately 8% (50.7 ha.) of the Woodlot area will be designated as WTP.</li> </ul>
Level of Retention	<ul style="list-style-type: none"> <li>It is anticipated that the distribution of immature leave stems (saplings and regeneration) will not be uniform across the cut-over area of the block. The level of retention will be 1-10 SPH.</li> <li>It is anticipated that the proportion and distribution of deciduous trees within the stand shall be maintained.</li> <li>An average of 3-5 stubs per hectare shall be retained throughout the block.</li> </ul>

MEASURES FOR COARSE WOODY DEBRIS (CWD)	
Describe proposed measures to satisfy objectives for CWD stated in the Forest Development Plan	
<ul style="list-style-type: none"> <li>The retention of CWD will ensure that structural (horizontal and vertical) habitat is retained.</li> <li>If a deciduous tree is felled for reasons of access or safety, it shall remain on-site as CWD.</li> </ul>	

NON-TIMBER RESOURCES AND RESOURCE FEATURES IN OR ADJACENT TO THE CUTBLOCK	
Feature(s) Mining Claims	<p>Measures to protect or accommodate or the reason for not protecting the feature(s)</p> <p>Two sites are located within the proposed block. These sites were marked with metal tags. The following information is presented on these tags:</p> <ul style="list-style-type: none"> <li>Final Post (No. 2), # 716501, 716502, 716503, 716504, Claim Name: L6, Locator: Ed Davis, Date: June 1, 1967</li> <li># 876441, 876149, 876150, Locator: C. Hawgan, Date: June 11, 1968</li> </ul> <p>The FDP for WL1761 was referred to Ministry of Energy and Mines on September 14, 1998. Based upon a review of Mines Branch databases indicated that there were no conflicts with existing mineral tenures nor with previously conducted mineral exploration work recorded with the Ministry. A note was received pertaining to this on September 18, 1998. This note is part of the approved FDP.</p>
Range and Forage	<p>Grazing Licence RAN070273 exists over the Woodlot area. The holder of this license is Owen Lake Ranch but upon the sale of the ranch in 2001, the license was transferred to Mr. Don Christmann. All conditions as stated in the Management Plan and Forest Development Plan for Woodlot 1761 still apply.</p>



Woodlot Licence Site Plan Template

RIPARIAN MANAGEMENT			
Riparian Class of Feature	S4 (refer to Note below)	Designation on Map	Stream A
		Falling and/or Skidding or Yarding Across a Stream	No
Post-harvest stand structure			
All non-merchantable coniferous trees, deciduous trees, shrubs and herbaceous vegetation shall be retained wherever operationally feasible within the RMZ and MFZ. A trembling aspen grove was noted to exist proximal to this stream and within this RMZ.			
Trees to be Retained	Species At/trembling aspen, Pl/lodgepole pine, Sx/spruce, Bl/subalpine fir		
	Characteristics Retain all deciduous trees unless they must be fallen for access and/or safety. All non-merchantable coniferous trees, shrubs and herbaceous vegetation shall be retained wherever operationally feasible within the RMZ and MFZ. Snags shall be stubbed at 3-5 metres height.		
	Function The residual trees, shrubs and herbaceous vegetation will assist in protecting the integrity of the stream and water quality.		
Minimum	Basal Area (m <sup>2</sup> /ha)	5% of cruise compilation (= 2.2 m <sup>3</sup> /ha)	or Number of Trees N/A
Harvesting is proposed in the RMZ of an S4, S5, or S6 stream that is a direct tributary to a known temperature sensitive S1, S2, S3, or S4 stream and there are currently sufficient numbers of shade trees in the RMZ.			
Harvesting is proposed in the RMZ of an S4, S5, or S6 stream that is a direct tributary to a S1, S2, or S3 stream or a marine-sensitive zone and there are sufficient numbers and distribution of trees in the RMZ to provide or contribute significantly to the maintenance of stream bank or channel stability.			
Measures for debris management if falling and/or skidding or yarding across a stream is proposed N/A			

**Note:** This stream has been classified as an S4 stream through default as it has not been inventoried. Hence, it is classified as "fish bearing". It was GPS traversed in the field and was found to disappear outside of the block to the west. A 30 metre RMZ has been established, in the field, along this stream. This RMZ includes a 5 metre MFZ.

RIPARIAN MANAGEMENT			
Riparian Class of Feature	NCD	Designation on Map	NCD
		Falling and/or Skidding or Yarding Across a Stream	No
Post-harvest stand structure			
All non-merchantable coniferous trees, deciduous trees, shrubs and herbaceous vegetation shall be retained wherever operationally feasible within the MFZ.			
Trees to be Retained	Species At/trembling aspen, Sx/spruce, Pl/lodgepole pine, Bl/subalpine fir		
	Characteristics Retain all deciduous trees unless they must be fallen for access and/or safety. All non-merchantable coniferous trees, shrubs and herbaceous vegetation shall be retained wherever operationally feasible within the RMZ and MFZ. Snags shall be stubbed at 3-5 metres height.		
	Function The residual trees, shrubs and herbaceous vegetation will assist in protecting the integrity of this riparian feature.		
Minimum	Basal Area (m <sup>2</sup> /ha)	5% of cruise compilation (= 2.2 m <sup>3</sup> /ha)	or Number of Trees N/A
Harvesting is proposed in the RMZ of an S4, S5, or S6 stream that is a direct tributary to a known temperature sensitive S1, S2, S3, or S4 stream and there are currently sufficient numbers of shade trees in the RMZ.			
Harvesting is proposed in the RMZ of an S4, S5, or S6 stream that is a direct tributary to a S1, S2, or S3 stream or a marine-sensitive zone and there are sufficient numbers and distribution of trees in the RMZ to provide or contribute significantly to the maintenance of stream bank or channel stability.			

**Note:** This stream is a NCD (Non-classified drainage) as it is not a stream as per the *Forest Practices Code of British Columbia Act*. A 5 metre MFZ has been established along this NCD.



SIGNATURE OF WOODLOT LICENSEE OR PERSON AUTHORISED ON BEHALF OF THE WOODLOT LICENSEE(S)	RPF SIGNATURE AND SEAL
<p>Signature <u>[Signature]</u> Date <u>02/04/11</u> (yy/mm/dd)</p>	
SIGNATURE FOR DISTRICT MANAGER APPROVAL	
<p>Signature <u>[Signature]</u> Date <u>02/04/17</u> (yy/mm/dd)</p>	<p>RPF Signature and Seal <u>[Signature]</u> Date <u>2002-04-10</u> (yy/mm/dd) <u>Heloise R. Dixon-Warren, BSc, RPF 2886</u> RPF Name (Printed)</p>

Attachments:

- Site Plan Map (1:5000)
- Site Plan photographs
- Site Plan field data cards



## Heloise Dixon-Warren, BSc, RPF

Until April 17, 2002  
3365-6<sup>th</sup> Street,  
C-2, Site 17, SS# 1,  
Houston, British Columbia,  
V0J 1Z0  
Tel.: (250) 845-2736  
Fax: (250) 845-3672  
Email: hdwtt@bulkley.net

Effective April 19, 2002  
2861 Nazko Road,  
Quesnel,  
British Columbia,  
V2J 7E5  
Tel.: (250) 249-5329  
Fax: (250) 249-5359  
Email: dixon-warren@integratedwoods.com

April 11, 2002

Mary Robinson  
Woodlot Technician  
2430-Butler Ave.,  
Bag Service 2000,  
Houston,  
British Columbia  
V0J 1Z0

### **Re: WOODLOT 1761 – Cutting Permit A Revisions**

Dear Mary:

On behalf of the **Mr. Harry Vandenberg**, the licensee for Woodlot Licence 1761, please note that the following revisions have been made to CP A. For further information, please refer to your "File Note" dated February 13, 2002 and your WL Licence Site Plan review checklist:

#### **Site Plan**

- Changes were made based upon your review checklist and our meeting on February 14, 2002
- 3 new Site Plan Maps with changes are attached

#### **Appraisal**

- Changes were made based upon your review checklist and our meeting on February 14, 2002

#### **Road Layout and Design**

- Changes were made based upon your review checklist and our meeting on February 14, 2002
- 3 copies of a "*Road Layout and Design Map*" are included in the CP package.

All documents have been signed by Mr. Ed Vandenberg who has signing authority.

Please note that no comments and/or concerns were received resulting from the referral letters sent dated December 28, 2001.

Should you have any questions or concerns regarding these documents, please contact the undersigned. All contact information is given above.

Thank you.

Yours,

  
Heloise R. Dixon-Warren, RPF





Heloise Dixon-Warren, RPF  
3365-6<sup>th</sup> Street,  
C-2, Site 17, SS#1,  
Houston, British Columbia,  
V0J 1Z0  
Tel.: (250) 845-2736  
Fax: (250) 845-3672  
Email: hdwtt@bulkley.net

January 4, 2002

Mary Robinson  
Woodlot Technician  
2430-Butler Ave.,  
Bag Service 2000,  
Houston,  
British Columbia  
V0J 1Z0



**Re: WOODLOT 1761 – Cutting Permit A**

Dear Mary:

On behalf of the **Mr. Harry Vandenberg**, the licensee for Woodlot Licence 1761, please find attached the following pertaining to Cutting Permit A:

- Cover Letter addressed to District Manager
- CP A Application Package (complete with Site Plans, Appraisal, Road Layout and Design, Cruise, updated FDP Map, referral letters, etc. and various associated maps)
- Completeness Quality Checklist

Please note that the scheduled date for submission of this document is January 11, 2002.

Ambush Forest Enterprises has completed all the digital mapping for this Cutting Permit. I shall request that they submit all the digital data associated with this CP via the .ftp site. The data submitted will also include that digital data associated with the Site Plan for CB1 of WL 1761's Schedule A Lands (submitted December 28, 2001).

If you disassemble the Cutting Permit Application Package, I would greatly appreciate receiving the binder and the plastic sleeves back.

Should you have any questions or concerns regarding these documents, please contact the undersigned. All contact information is given above.

Thank you.

Yours,

  
Heloise R. Dixon-Warren, RPF



Heloise Dixon-Warren, BSc, RPF  
3365-6<sup>th</sup> Street,  
C-2, Site 17, SS#1,  
Houston, British Columbia,  
V0J 1Z0  
Tel.: (250) 845-2736  
Fax: (250) 845-3672  
Email: hdwtt@bulkley.net



January 4, 2002

Mr. W.J. (Bill) Warner,  
District Manager  
Morice Forest District,  
2430 Butler Avenue,  
Bag 2000, Houston,  
BC, V0J 1Z0

**Re: Cutting Permit A Application**

Dear Mr. District Manager:

On behalf of **Mr. Harry Vandenberg**, the licensee for **Woodlot Licence 1761**, please find enclosed the following documents and associated paperwork for the licensee's application to harvest under Cutting Permit A.

- Woodlot CP/SP/RP/RLD Completeness Quality Checklist
- Cutting Permit Application Package

No concerns were received during the FDP's advertising period and no features have been noted requiring special management. Only Block 1 and all associated road has been included under this Cutting Permit.

Block 1 and road layout and associated development (cruising, Site Plan data collection) was completed in 1999. Block 2 has been established in the field but no further development (cruising, Site Plan data collection) has occurred; hence it has not been included with this Cutting Permit.

The licensee would like to have the opportunity to begin road construction and right-of-way development for Block 1 by the end of 2002. They would like to have the option of commencing with road development prior to break up. Hence, it is requested that this Cutting Permit be issued within 2 months of the submittal date so that these timeframes can be achieved.




Please note that for the appraisal, it is requested that the expiry date be 5 years from the effective date. An effective date has not been given based upon my meeting with Mary Robinson on December 13, 2001. She stated that she will give this date. Additionally, the licensee wishes an allowance for graveling the road. The gravel source will be the Ministry of Forests gravel pit located at the junction of the Owen North and Morice-Owen FSR's.

Although not included with the CP document, the digital data associated with this CP shall be submitted electronically via the .ftp site.

I trust you find the contents of the enclosed content. Should you have any questions, please do not hesitate to contact the undersigned. All my contact information is given above.

Thank you.

Yours,



Heloise R. Dixon-Warren, RPF

Cc: Mr. Ed Vandenberg  
Mr. Harry Vandenberg









## **Application For Cutting Permit A**

**Woodlot Licence 1761**



**FDP Term:  
January 1, 1999 - December 31, 2003**

**Licensee:** Mr. Harry Vandenberg  
Box 10 - Houston  
British Columbia, V0J 1Z0

**Submitted by:** Heloise R. Dixon-Warren, BSc, RPF  
**Tel.:** (250) 845-2736  
**Fax.:** (250) 845-3672  
**Email:** hdwtt@bulkley.net

**Date submitted:** January, 2002



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- I. Cutting Permit (CP) Area Descriptions
- II. Site Plan, Site Plan Map (1:5,000), Photographs and Data Cards
- III. Riparian (Stream) Classifications
- IV. Interior Appraisal Data Sheet(s) for Cutting Permit A
- V. Appraisal Map (1:10,000) for Cutting Permit A
- VI. Road Layout and Design and Maps (3 copies)
- VII. Cruise Compilation for Cutting Permit A
- VIII. Final Cruise Maps for Cutting Permit A – CP A, Block 1 Cruise Map (1:5000).
- IX. Referral Letters
- X. WL 1761 Forest Development Plan Map (1:20,000) - displays actual block and road locations based upon GSP traversing



## **I. Cutting Permit (CP) Area Descriptions**

**Woodlot Licence 1761  
Mr. Harry Vandenberg  
Cutting Permit A  
January, 2002**



## Cutting Permit (CP) Area Descriptions

<b>Licence Number:</b> WL 1761	<b>CP Letter:</b> A	<b>CP Geographic Location/Mapsheet:</b> Owen Lake/Riddeck Creek FSR/093L007
<b>Licensee Name:</b> Mr. Harry Vandenberg	<b>Licencee Address:</b> 2001 Gushwa Road, Box 10, Houston, BC, V0J 1Z0	<b>Licencee Telephone/Facsimile-:</b> (250) 845-7283

Cutting Permit Area Summary by Block								
Block #	Gross (ha)	NP Nat. (ha)	NP Unnat. (ha)	Riparian			Other (ha)	Net Area (ha)
				RMZ (ha)	RRZ (ha)	MFZ (ha)		
1	10.30	0	0.68	0.74	0	0.13		9.62
Total	10.30	0	0.68	0.74	0	0.13		9.62

**Woodlot Licence 1761**  
**Mr. Harry Vandenberg**  
**Cutting Permit A**  
**January, 2002**



<b>Harvesting Information by block</b>		
<b>Description</b>	<b>Block #</b>	
	<b>1</b>	<b>2</b>
<b>Harvesting Schedule</b>	Winter 2001-2002/Summer 2002	N/A
<b>Harvesting prescription with attention to special management constraints</b>	N/A	N/A
<b>Objectives involving Special Management Zones (i.e. Partial Cut, Machine Free Areas, Habitat Retention, Group Selection, etc.)</b>	N/A	N/A
<b>Harvesting System</b>	Conventional/Ground Based – Feller Buncher/Hand falling with Grapple or Line Skidding to Landings	N/A

<b>Harvesting Information for the CP access</b>	
<b>R/W Logging Schedule</b>	February/March, 2002 – complete by March/April, 2002
<b>Road Construction Schedule (includes stages of completion for roads built in stages or sections)</b>	Winter 2001-02 (complete by spring 2002)
<b>Indication of Authority for Harvesting (i.e. Road Permit, CP)</b>	Cutting Permit A

Woodlot Licence 1761  
 Mr. Harry Vandenberg  
 Cutting Permit A  
 January, 2002



MINISTRY OF FORESTS  
**RECEIVED**

APR 11 2002

MONTREAL P.Q.



Scaling Information	
Scale Site	253; Houston Forest Products (HFP)
Scale based permit	Yes
Population	N/A
Stratification	Based upon the wood profile

Note: This information will vary upon Scale Site. This table has been completed using HFP as the Scale Site.

Inventory Information		
Description	Block #	
	1	2
Timber Types to be harvested by :	Age Class: 8 Height Class: 3 Stocking Class: 1 Site Index: 19 Crown Closure Class: 5	N/A
Area of each type to be harvested by block	7.8 ha. – polygon 891 2.5 ha. – polygons 879 and 890	N/A
Polygon number of each timber type harvested by block	093L007:	N/A
Region and Compartment	Region 67, Compartment 26	N/A

Woodlot Licence 1761  
Mr. Harry Vandenberg  
Cutting Permit A  
January, 2002



## **IX. Referral Letters**

**Woodlot Licence 1761  
Mr. Harry Vandenberg  
Cutting Permit A  
January, 2002**



Heloise Dixon-Warren, BSc, RPF  
3365-6<sup>th</sup> Street,  
C-2, Site 17, SS#1,  
Houston, British Columbia,  
V0J 1Z0  
Tel.: (250) 845-2736  
Fax: (250) 845-3672  
Email: hdwtt@bulkley.net

December 28, 2001

Ronald Fitch  
c/o Grizzly Lake Outfitters  
Box 452, Houston,  
British Columbia  
V0J 1Z0

**Re: Notice of Cutting Permit A**

Dear Mr. Fitch:

As the registered holder of Guide Territory 609G004, please find enclosed an updated copy of the Forest Development Plan Map for Woodlot 1761 displaying Cutting Permit A. This Cutting Permit is comprised of a single block, Block 1 and all associated road. This Block was approved under the licensee's current Forest Development Plan (January 1, 1999 to December 31, 2003).

Harvesting under Cutting Permit A is schedule to occur in the spring of 2002. This block was referred to you for comments on September 29, 1998.

Thank you.

Yours,

  
Heloise R. Dixon-Warren, RPF



COPY



Heloise Dixon-Warren, BSc, RPF  
3365-6<sup>th</sup> Street,  
C-2, Site 17, SS#1,  
Houston, British Columbia,  
V0J 1Z0  
Tel.: (250) 845-2736  
Fax: (250) 845-3672  
Email: hdwtt@bulkley.net

December 28, 2001

Andrew George Sr.,  
RR1, Highway 16 West,  
Burns Lake,  
British Columbia  
V0J 1E0

**Re: Notice of Cutting Permit A**

Dear Mr. George:

As the registered holder of Guide Territory 609G004, please find enclosed an updated copy of the Forest Development Plan Map for Woodlot 1761 displaying Cutting Permit A. This Cutting Permit is comprised of a single block, Block 1 and all associated road. This Block was approved under the licensee's current Forest Development Plan (January 1, 1999 to December 31, 2003).

Harvesting under Cutting Permit A is schedule to occur in the spring of 2002. This block was referred to you for comments on September 29, 1998.

Thank you.

Yours,

  
Heloise R. Dixon-Warren, RPF

COPY





**Heloise Dixon-Warren, BSc, RPF**  
3365-6<sup>th</sup> Street,  
C-2, Site 17, SS#1,  
Houston, British Columbia,  
V0J 1Z0  
Tel.: (250) 845-2736  
Fax: (250) 845-3672  
Email: hdwtt@bulkley.net

January 3, 2002

Mr. Donald Christmann  
Box 1409  
Houston, BC  
V0J 1Z0

**Re: Notice of Cutting Permit A**

Dear Mr. Christmann:

As the holder of Grazing Licence RAN070273, please find enclosed an updated copy of the Forest Development Plan Map for Woodlot 1761 displaying Cutting Permit A. This Cutting Permit is comprised of a single block, Block 1 and all associated road.

This Block was approved under the licensee's current Forest Development Plan (January 1, 1999 to December 31, 2003). No comments were received on this block during the Forest Development Plan referral period in 1998.

Harvesting under Cutting Permit A is currently scheduled to occur prior to the end of 2002. Should you have any questions pertaining to this, do not hesitate to contact the undersigned.

Thank you.

Yours,



Heloise R. Dixon-Warren, RPF

**COPY**





**X. WL 1761 Forest Development Plan Map (1:20,000)**  
**- displaying established actual roads and blocks in the field-**

Woodlot Licence 1761  
Mr. Harry Vandenberg  
Cutting Permit A  
January, 2002





Woodlot 1761  
Owen Lake Ranch  
Mr. Harry Vandenberg  
CPA  
April 10, 2002

**WOODLOT LICENCE ROAD LAYOUT & DESIGN SCHEDULE FS 1179(3)**

**ROAD SUBGRADE PREPARATION**

Road Permit ☐ N/A Amendment Number: N/A  
Cutting Permit ☒ A  
Special Use Permit ☐ N/A Road Name/Reference: Branch 1

**As required by the Woodlot Licence Forest Management Regulation sections 43(6)(d) 47.2 and 48(1)(b)**

Tick the appropriate ☐ to validate each statement covered by the signature below.

1. The area of proposed road construction has a moderate or high likelihood of landslides.  
☐ applicable ☒ not applicable (If "not applicable" 2, 3 or 4 are allowed. If "applicable" only 5 is allowed.)
2. Stumps, roots and embedded logs are to be left or placed in the road prism on the outside of the road subgrade width on the downhill side, and I have reasonable grounds to believe that doing so will not significantly increase the risk of a failure of the road subgrade. [Reference Sections 43(6)(d) and 47.2(1)]  
☒ applicable ☐ not applicable
3. Stumps, roots and embedded logs are to be left or placed in the road prism within the road subgrade width, and I have reasonable grounds to believe that doing so will not significantly increase the risk of a failure of the road subgrade. [Reference Sections 43(6)(d) and 47.2(2)]  
☐ applicable ☒ not applicable
4. Inverted stumps and corduroy or puncheon are to be placed in the road subgrade width to support the fill material and the required vehicle loads. I have reasonable grounds to believe that doing so will not significantly increase the risk of a failure of the road subgrade. [Reference Sections 43(6)(d) and 47.2(3)]  
☐ applicable ☒ not applicable
5. Stumps and logs are to be used as retaining structures under or against the fill as a measure to maintain slope stability that has been prepared by a qualified registered professional for a road on a site with moderate or high likelihood of landslides. I have reasonable grounds to believe that doing so will not significantly increase the risk of a failure of the road subgrade [Reference Sections 43(6)(d) and 48.1(1)(b)]  
☐ applicable ☐ not applicable

**Road Layout & Design,**

**Woodlot Licence Forest Management Regulation  
Section 43(6)(g)**

I am the Woodlot Licence holder (or authorized representative) required by legislation to prepare this road layout and design, and I confirm that the submission is complete.

ED Vandenberg  
Name

[Signature]  
Signature

02/04/11  
Date

**NOTE:** Signature applies to entire road layout and design package that is submitted for approval.



Following pages are  
Woodlot 1761 A Operational file.



# ROUTE CARD - WOODLOT SITE PLAN

LICENCEE HARRY VANDEER ERG.

Location Owen Lake / Radech Crk FSR

WL# 1761

WOODLOT RT

BLOCK: 001

MARY ROBINSON

	Start Week	Stop Week
<b>STARS DATA ENTRY (JUDY)</b> <ul style="list-style-type: none"> <li>Receives Woodlot package from FD, puts in green folders and attaches route cards</li> <li>STARS entry (Create STARS route card by entering schedule type, target and actual dates)</li> <li>Breaks out SP/RLD/APPRAISALS, ECE, CRUISE in STARS (date entry)</li> <li>STARS entry: Finish date and next Role start date</li> </ul>	0	1
<b>RESOURCE CLERK TIMBER</b> <ul style="list-style-type: none"> <li>Receives Woodlot package from RMC (Judy)</li> <li>FTAS entry</li> <li>STARS entry: Finish date and next Role start date</li> </ul>	1	1
<b>WOODLOT RESOURCE TECHNICIAN</b> <ul style="list-style-type: none"> <li>Receives woodlot package from RC</li> <li>Reviews quality checklist</li> <li>Review SP according to criteria in legislation (ensure SP is consistent with FDP), check resource conflicts (e.g. First Nations)</li> <li>Type up SP review summary and recommendations                             <ul style="list-style-type: none"> <li>Stop the clock if SP does not meet standards of review (SR1, SR2 and SR3), date stamp return date, attach review summary and return SP package to the Licencee.</li> <li>Check GPS data, if correct, post to G:\Archive\Woodlot</li> <li>If incorrect, return to Licencee, stop clock.</li> </ul> </li> <li>If SP meets all requirements, Pass to DM for signing.</li> <li>STARS Entry: Finish Date and DM Start Date</li> </ul>	1	3
<b>DISTRICT MANAGER</b> <ul style="list-style-type: none"> <li>Receives SP(s) from WLRT</li> <li>Review SP summary</li> <li>Sign, pass SP to RC</li> </ul>	3	4
<b>RESOURCE CLERK FORESTRY</b> <ul style="list-style-type: none"> <li>Receive SP from DM, STARS Entry: Start date and DM finish date and SP approval date in the 'Effective' box on the top line next to the 'Actual' date.</li> <li>Pass original approved SPs to WLRT (in separate Green Folders).</li> <li>STARS Entry: Finish date and WLRT start date.</li> </ul>	4	4
<b>WOODLOT RESOURCE TECHNICIAN</b> <ul style="list-style-type: none"> <li>WLRT receives approved SPs (wait for all approved, each SP/RP/CP/ExA in separate folders, band together)</li> <li>Continues with CP DOC/EXHIBIT 'A' process (make sure CP/ExA route card is attached)</li> <li>Attaches RLD/RP (if required).</li> <li>Pass to LIM.</li> <li>STARS Entry: Finish date and next Start date.</li> </ul>	4	4
<b>LIM - Bonnie Ellen</b> <ul style="list-style-type: none"> <li>Receives approved SPs from WLRT</li> <li>Creates opening numbers and maps</li> <li>Forwards to RMC for file creation</li> <li>STARS Entry: Finish date and next Start date.</li> </ul>	4	7
<b>RECORDS MGT CLERK</b> <ul style="list-style-type: none"> <li>Receives SP files from LIM</li> <li>Creates opening files</li> <li>Forwards to RC Forestry for ISIS data entry</li> <li>STARS Entry: Finish date and next LIM Start date.</li> </ul>	7	8
<b>RESOURCE CLERK FORESTRY</b> <ul style="list-style-type: none"> <li>Receives SPs files from RMC</li> <li>Enters ISIS data</li> <li>Make copies: C&amp;E, file, original SP to WLRT</li> <li>STARS Entry: Finish date and next Start date.</li> </ul>	7	8
<b>WOODLOT RESOURCE TECH</b> <ul style="list-style-type: none"> <li>Receives original SPs from RC</li> <li>Waits for CP/RLD/EXHIBIT 'A' and distributes all documents to Licensee</li> <li>STARS Entry: Finish date</li> </ul>	8	8

Revised: 01/06/12



# WOODLOT ROUTE CARD - CUTTING PERMIT / EXHIBIT 'A' PROCESS

Licence W.1761

CP A

Block (CB) 001

ZONE B

WOODLOT TECHNICIAN: Mary Robinson

		Start & Stop Weeks	
		1	4
<b>WOODLOT TECH (WLRT)</b> <ul style="list-style-type: none"> <li>Receives package from RC,</li> <li>Reviews <b>COMPLETENESS / QUALITY</b> checklist</li> <li>Prepares CP doc request, sends Exhibit A and Opening Number request with original copy of SP, digital data, RP, CP to LIM / see SP route card for OP# process</li> <li>Appraisal review</li> <li>Reviews with Region Valuation</li> <li>STARS Entry: Finish date and next role Start date</li> </ul>		02/01/09	02/02/12 <i>sent back for revisions.</i>
<b>LIM - EXHIBIT A - Bonnie Ellen</b> <ul style="list-style-type: none"> <li>Create Exhibit A</li> <li>FTAS entry</li> <li>Pass green folders with Exhibit As to RC Timber</li> <li>STARS Entry: Finish date and next role Start date</li> </ul>		02/09/19	
<b>RESOURCE CLERK TIMBER MARY</b> <ul style="list-style-type: none"> <li>Receives package request from LIM</li> <li>Prepares CP doc and creates CP in FTAS.</li> <li>Trappers/Guides, Effective date and term, Timber Mark</li> <li>Forwards green folder package to FOS</li> <li>STARS Entry: Finish date and next role Start date</li> </ul>		02/05/22	02/05/31
<b>PREAWARD FOS</b> <ul style="list-style-type: none"> <li>Receive CP/SP/RDL green folder from RC</li> <li>Signs CP doc</li> <li>STARS Entry: Finish date and RC start date</li> </ul>		02/05/31	02/05/31
<b>RESOURCE CLERK</b> <ul style="list-style-type: none"> <li>Receives package from FOS</li> <li>Make copies of documents and sends CP and RLD to WLRT</li> <li>Copy of CP and map for C&amp;E, filing</li> <li>FTAS entries 'HI'</li> <li>STARS Entry: Finish date and next role Start date</li> </ul>		02/05/31	02/05/31
<b>WOODLOT RESOURCE TECH</b> <ul style="list-style-type: none"> <li>Receives signed SPs from RC</li> <li>Receives signed CP doc/Ex A/RLD/RP (if required) from RC</li> <li>Sends approved documents to Licencee (ensures complete approved package)</li> <li>STARS Entry: Finish date</li> </ul>		02/05/31	02/05/31





BRITISH  
COLUMBIA



# Woodlot CP/SP/RP/RLD Completeness Quality Checklist



<b>Woodlot #</b> 1761		<b>CP A</b> <b>BLK. 1</b>	
<b>Licensee or Consultant</b>		<b>MoF RA</b>	
Heloise R. Dixon-Warren, RPF Tel: 250-845-2736 / Fax: 250-845-3672 Email: hdwtt@bulkley.net		Mary Robinson	
<b>Geographic Location</b>		<b>FTAS Zone:</b>	
Riddeck Creek FSR/ Owen Lake (named lakes, rivers, mountains)		(MoF to complete)	
<b>DATE:</b> January 4, 2002 (scheduled submittal date: January 11, 2002)		<b>Timber Mark(s)</b>	
		(MoF to complete)	

	Standard	Comments/Rationale	Licensee			MOF	
			YES	NO	N/A	YES	NO
1	1 Site Plan with 3 hard copy Maps per block		✓				
2	Cover Letter Identifying any issues, time frames or FDP comments		✓				
3	Stream Classification completed and Attached		✓				
4	Appraisal and 2 Maps attached		✓				
5	Professional ECE Approved (if required)	N/A			✓		
	Non Professional ECE attached (if required)	N/A			✓		
6	Cruise Compilation and final cruise map attached	Cruise approved by MoF November 8, 1999. Recompiled on November 29, 2001.	✓				
7 <sup>1</sup>	Road layout and design Schedule "A1", "A2" 3 hard copy Maps specific to RLD within Woodlot.		✓				
8	Is proposed block larger than what's approved in the FDP	N/A		✓			
9	Assessments attached (if Required)	N/A			✓		
10	Guides #'s	609G004	Updated FDP Map with letter referred on December 28, 2001	✓			
	Trappers #	609T008	Updated FDP Map with letter referred on December 28, 2001	✓			
	Range	RAN070273	Updated FDP Map with letter referred on January 3, 2002	✓			
	Letters Attached		Included in CP application pkg.	✓			
11	Road Permit required RLD – outside WL requires 3 Maps	N/A			✓		
12	Digital information as per Provincial & District standards.	CP – will be submitted by Ambush over the .ftp site.	✓				
		RP – N/A					

<sup>1</sup> A Road Permit application and a Road Layout and Design package, specific to the Forest Road Regulation and the Act, is to be submitted for all road construction occurring outside the Woodlot Licence. If road within the Woodlot Licence is part of the Cutting Permit, then a Road Layout and Design package specific to the Woodlot Licence Forest Management Regulation is to be submitted.



OWEN LAKE RANCH LTD.  
WOODLOT 1761, Block 1  
East of Owen Lake on Riddeck Creek F.S.R.

November 29, 2001

Compiled by Cynthia Stoltenberg  
Silvicon Services Inc.

Although this cruise compilation was compiled by Silvicon Services Inc., the data was collected and supplied by another agency; therefore, Silvicon Services Inc. cannot warrant the accuracy of the data.



OWEN LAKE RANCH LTD.

Cruise Compilation Project Report

Project Identification :

Location of Cruise : RIDDECK CR.  
 Licence : WL1761  
 Project Number : WL1761  
 Cutting Permit : 001  
 Forest Inventory Zone : J  
 Forest District : 2  
 Sustained Yield Unit : PSYU : Morice

Compilation Specifications :

Volume and Taper Equations : A. Kozak 1989  
 Decay Waste and Breakage Factors : BCFS Zonal and PSYU  
 Compiled By : Silvicon Services Inc.  
 Cruised By : WARREN  
 Under Licence From : Olympic Resource Management  
 Program Version : 2001.0  
 Date of Compilation : 29-Nov-2001 : 01:52:29PM  
 Method : Average Line Method

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage,

British Columbia Close Utilization  
 Net Volume ( Gross Volume less DWB )

Utilization Levels:	Minimum DBH	Top Diameter	Stump Height
Mature Blocks: (cm)	17.5	10.0	30
Immature Blocks: (cm)	12.0	10.0	30
Exception[PL]: (cm)	12.5	10.0	30
Standard Log Length:	5.00		

Land Area Statement :

Treatment Unit Areas

Block Areas

Block 001	Total	A
Type 1	8.90	8.90
Type 2	1.40	1.40
Total	10.30	10.30

Harvest Method Areas

Method SC	Total	A
Type 1	8.90	8.90
Type 2	1.40	1.40
Total	10.30	10.30



Compiled by : Silvicon Services Inc.  
 Cruised by : WARREN  
 Average Line Method  
 OWEN LAKE RANCH LTD.  
 Licence Number : WL1761  
 Cutting Permit : 001

\*\*\* FOR APPRAISAL PURPOSES \*\*\*  
 MAP AREA STATEMENT REPORT  
 Calculations Use All Plots in Type  
 Gross - Comp DWB  
 Forest Inventory Zone : J  
 Region : 2 - Prince Rupert  
 Useless Volumes Excluded  
 PSYU : Morice  
 District : 2 - Morice

MAS- 1  
 Filename: wl1761.ccp  
 29-Nov-2001 01:52:29PM  
 Project : WL1761  
 Version : 2001.0

#### Card A Cruise Identity Card

Licence #: WL1761  
 Forest District: Morice  
 Quota: Prop./Mngd.PSYU,TFL,or SSA  
 Co-ordinates Zone: Unknown  
 Total Merch Area: 10.30  
 Locality Description: RIDDECK CR.  
 Cutting Permit #: 001  
 Type: PSYU  
 Sale Type: None  
 East: 0  
 Report Type: \*\*\* FOR APPRAISAL PURPOSES \*\*\*  
 Number of Blocks: 1  
 Unit No: Morice  
 Elevation: 0  
 North: 0  
 Forest Region: Prince Rupert  
 Tenure: Woodlot Licences (INTERIOR)

#### Card B Compilation Standard Card

Damage: Damage  
 Double Sampling: Measure Plots Only  
 Species Compilation: Exceptions Used  
 Selective: Compile All Trees  
 Special Compilation: Interior Wet Belt Fir  
 Type of Compilation: Interior

Compilation Standard:	Mature	Immature	PL
DBH Limit:	17.50	12.00	12.50
Stump Height:	30	30	30
Top Diameter:	10.00	10.00	10.00

#### Card C Type Description Card

Type no:	Type Description:	Silvicultural Treatment Units					
		A	B	C	D	E	F
1	1 S(Pl)	8.9	0.0	0.0	0.0	0.0	0.0
2	2 Pl	1.4	0.0	0.0	0.0	0.0	0.0

#### Card D Block Description Card

Block No.	Block Desc.	Maturity.	Type no:	Silvicultural Treatment Units					
				A	B	C	D	E	F
001	Block 1	M	1	8.9	0.0	0.0	0.0	0.0	0.0
			2	1.4	0.0	0.0	0.0	0.0	0.0

#### Card F Harvesting Description Card

Harvest Method	Harvest Desc	Type no:	Silvicultural Treatment Units					
			A	B	C	D	E	F
SC	Conventional	1	8.9	0.0	0.0	0.0	0.0	0.0
		2	1.4	0.0	0.0	0.0	0.0	0.0

#### Card G Treatment Unit Description Card

Code.	Description.
A	A
B	B
C	C
D	D
E	E
F	F

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage,



Compiled by : Silvicon Services Inc.

\*\*\* FOR APPRAISAL PURPOSES \*\*\*

VLS- 1

Cruised by : WARREN

VOLUME STATISTICAL ANALYSIS

Average Line Method

Calculations Use All Plots in Type

OWEN LAKE RANCH LTD.

Gross - Comp DWB

Useless Volumes Excluded

Filename: wl1761.ccp

29-Nov-2001 01:52:29PM

Licence Number : WL1761

Forest Inventory Zone : J

PSYU : Morice

Project : WL1761

Cutting Permit : 001

Region : 2 - Prince Rupert

District : 2 - Morice

Version : 2001.0

Utilization Levels: Minimum DBH Top Diameter Stump Height

Mature Blocks: (cm)	17.5	10.0	30
Immature Blocks: (cm)	12.0	10.0	30
Exception[PL]: (cm)	12.5	10.0	30

Standard Log Length: 5.00

Forest Type	Cnt	Mea	Tot	Area ha.	Net Volume m3/ha.	Proportional Volume	Cnt	Mea	Tot	Standard Deviation	Coeff. of Variation	Sampling Error 1 S.E.	Error 2 S.E.
1 :1 S(Pl)	0	8	8	8.9	357.7	0.89	0	52	52	222.1749	62.1	22.0	51.9
2 :2 Pl	0	2	2	1.4	273.6	0.11	0	10	10	14.6711	5.4	3.8	48.2
TOTAL	0	10	10	10.3	346.3		0	62	62		55.4	19.6	45.2

Number of live & dead potential trees sampled is 62

Number of dead useless trees sampled is 0

Number of live useless trees sampled is 0

The weighted sampling error is 45.2% at the 95% confidence level

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage,



Compiled by : Silvicon Services Inc.

Cruised by : WARREN

Average Line Method

OWEN LAKE RANCH LTD.

Licence Number : WL1761

Cutting Permit : 001

\*\*\* FOR APPRAISAL PURPOSES \*\*\*  
BASAL AREA STATISTICAL ANALYSIS  
Calculations Use All Plots in Type  
Gross - Comp DWB  
Forest Inventory Zone : J  
Region : 2 - Prince Rupert  
Useless Volumes Excluded  
PSYU : Morice  
District : 2 - Morice

BAS- 1

Filename: wl1761.ccp  
29-Nov-2001 01:52:29PM  
Project : WL1761  
Version : 2001.0

Utilization Levels:            Minimum DBH      Top Diameter      Stump Height

Mature Blocks: (cm)	17.5	10.0	30
Immature Blocks:(cm)	12.0	10.0	30
Exception[PL]: (cm)	12.5	10.0	30
Standard Log Length:	5.00		

Forest Type	Plots			Area ha.	Basal Area m2/ha.	Proportional Basal Area	Trees			Standard Deviation	Coeff. of Variation	Sampling Error	
	Cnt	Mea	Tot				Cnt	Mea	Tot			1 S.E.	2 S.E.
1 :1 S(Pl)	0	8	8	8.9	45.5	0.89	0	52	52	23.6643	52.0	18.4	43.5
2 :2 Pl	0	2	2	1.4	35.0	0.11	0	10	10	0.0000	0.0	0.0	0.0
TOTAL	0	10	10	10.3	44.1		0	62	62		46.4	16.4	37.8

Number of live & dead potential trees sampled is 62

Number of dead useless trees sampled is 0

Number of live useless trees sampled is 0

The weighted sampling error is 37.8% at the 95% confidence level

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage,

44.1  
0.05  
22.05



Compiled by : Silvicon Services Inc.  
 Cruised by : WARREN  
 Average Line Method  
 OWEN LAKE RANCH LTD.  
 Licence Number : WL1761  
 Cutting Permit : 001

Gross - Comp DWB  
 Forest Inventory Zone : J  
 Region : 2 - Prince Rupert

\*\*\* FOR APPRAISAL PURPOSES \*\*\*  
 CUTTING PERMIT SUMMARY  
 Calculations Use All Plots in Type  
 Useless Volumes Excluded  
 PSYU : Morice  
 District : 2 - Morice

CP- 1

Filename: wl1761.ccp  
 29-Nov-2001 01:52:29PM  
 Project : WL1761  
 Version : 2001.0

Net Area: [ A : 10.3 ]  
 Gross Area: [ Grand Total : 10.3 ]

	Total	Conifer	S	PL
<b>Utilization Limits</b>				
Min DBH cm (M)			17.5	12.5
Stump Ht cm (M)			30.0	30.0
Top Dia cm (M)			10.0	10.0
Log Len m			5.0	5.0
<b>Volume and Size Data</b>				
Gross Merchantable m3	4139	4139	3348	791
Net Merchantable m3	3567	3567	2916	651
Net Merch - All m3/ha	346	346	283	63
Species Distribution %	100	100	82	18
Decay %gross	9	9	8	11
Waste %gross	3	3	3	4
Waste(billing) %net	3	3	3	5
Breakage %gross	2	2	2	2
Total Cull (DWB) %gross	14	14	13	18
Stems/Ha (Live & D.P.)	889.7	889.7	777.2	112.5
Avg. DBH (Live & D.P.)	25.1	25.1	24.4	29.7
Snags/Ha				
Avg Snag DBH				
Gross Merch Vol/Tree m3	0.45	0.45	0.42	0.68
Net. Merch Vol/Tree m3	0.39	0.39	0.36	0.56
Avg. Weight Total Ht. m	24.4	24.4	24.5	24.0
Avg. Weight Merch Ht. m	18.3	18.3	18.1	19.2
Avg. 5.0 m Log Net Mer m3	0.13	0.13	0.12	0.16
Avg. 5.0 m Log Gr. Mer m3	0.15	0.15	0.14	0.19
Avg. # of 5.0 m Logs/Tree	3.10	3.10	3.03	3.63
Net Immature %	21	21	25	
% Average Slope	12			
<b>Lumber and Chips</b>				
%Net Merch - Stud	61	61	64	49
%Net Merch - Small Log	92	92	93	85
%Net Merch - Large Log	8	8	7	15
LRF Small Logs bd ft/m3	177	177	177	180
LRF Large Logs bd ft/m3	213	213	213	212
Avg LRF All bd ft/m3	180	180	179	185
Chip Yield units/m3	0.14	0.14	0.14	0.15
<b>Algorithm Grades %</b>				
#1 Sawlog	1	89	89	100
#3 Sawlog (Dead)	3	11	11	13
#4 Chipper	4			
#5 Chipper (Dead)	5		1	
<b>Statistical Summary</b>				
Coeff. of Variation	55.4	55.4	56.0	116.5
Two Standard Error	45.2	45.2	45.7	95.1
Number and Type of Plots	MP = 10			
Number of Potential Trees	62			
Plots/Ha	1.0			
Trees/Plot	6.2			

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage, , Wet Belt Fir



Compiled by : Silvicon Services Inc.  
 Cruised by : WARREN  
 Average Line Method  
 OWEN LAKE RANCH LTD.  
 Licence Number : WL1761  
 Cutting Permit : 001

\*\*\* FOR APPRAISAL PURPOSES \*\*\*  
 EXTENDED CP SUMMARY  
 Calculations Use All Plots in Type  
 Gross - Comp DWB  
 Forest Inventory Zone : J  
 Region : 2 - Prince Rupert  
 Useless Volumes Excluded  
 PSYU : Morice  
 District : 2 - Morice

EXTCP- 1

Filename: wl1761.ccp  
 29-Nov-2001 01:52:29PM  
 Project : WL1761  
 Version : 2001.0

Net Area: [ A : 10.3 ]  
 Gross Area: [ Grand Total : 10.3 ]

	Total	Conifer	S	PL
<b>Utilization Limits</b>				
Min DBH cm (M)			17.5	12.5
Stump Ht cm (M)			30.0	30.0
Top Dia cm (M)			10.0	10.0
Log Len m			5.0	5.0
<b>Volume and Size Data</b>				
Gross Merchantable m3	4139	4139	3348	791
Net Merchantable m3	3567	3567	2916	651
Net Merch - All m3/ha	346	346	283	63
Species Distribution %	100	100	82	18
Decay %gross	9	9	8	11
Waste %gross	3	3	3	4
Waste(billing) %net	3	3	3	5
Breakage %gross	2	2	2	2
Total Cull (DWB) %gross	14	14	13	18
Stems/Ha (Live & D.P.)	889.7	889.7	777.2	112.5
Avg. DBH (Live & D.P.)	25.1	25.1	24.4	29.7
Snags/Ha				
Avg Snag DBH				
Gross Merch Vol/Tree m3	0.45	0.45	0.42	0.68
Net. Merch Vol/Tree m3	0.39	0.39	0.36	0.56
Avg. Weight Total Ht. m	24.4	24.4	24.5	24.0
Avg. Weight Merch Ht. m	18.3	18.3	18.1	19.2
Avg. 5.0 m Log Net Mer m3	0.13	0.13	0.12	0.16
Avg. 5.0 m Log Gr. Mer m3	0.15	0.15	0.14	0.19
Avg. # of 5.0 m Logs/Tree	3.10	3.10	3.03	3.63
Net Immature %	21	21	25	
% Average Slope	12			
All Burn Volume %				
Heavy Fire Volume %				
Blowdown Volume %	5	5	6	
Insect Volume %	17	17	21	
<b>Lumber and Chips</b>				
%Net Merch - Stud	61	61	64	49
%Net Merch - Small Log	92	92	93	85
%Net Merch - Large Log	8	8	7	15
LRF Small Logs bd ft/m3	177	177	177	180
LRF Large Logs bd ft/m3	213	213	213	212
Avg LRF All bd ft/m3	180	180	179	185
Chip Yield units/m3	0.14	0.14	0.14	0.15
<b>Algorithm Grades %</b>				
#1 Sawlog	1	89	89	86
#3 Sawlog (Dead)	3	11	11	13
#4 Chipper	4			
#5 Chipper (Dead)	5			1

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage,



Compiled by : Silvicon Services Inc.

\*\*\* FOR APPRAISAL PURPOSES \*\*\*

CPDAM- 1

Cruised by : WARREN

CUTTING PERMIT DAMAGE SUMMARY [ Blowdown Damage ]

Average Line Method

OWEN LAKE RANCH LTD.

Licence Number : WL1761

Cutting Permit : 001

Gross - Comp DWB

Forest Inventory Zone : J

Region : 2 - Prince Rupert

Useless Volumes Excluded

PSYU : Morice

District : 2 - Morice

Filename: wl1761.ccp

29-Nov-2001 01:52:29PM

Project : WL1761

Version : 2001.0

Net Area: [ A : 10.3 ]

Gross Area: [ Grand Total : 10.3 ]

Species: Spruce

Type of Damage:

Total Normal Down

Volume and Size Data

Gross Merchantable m3 3348 2451 267

Net Merchantable m3 2916 2222 169

Net Merch - All m3/ha 283 216 16

Species Distribution % 82 62 6

Decay %gross 8 6 25

Waste %gross 3 2 9

Waste(billing) %net 3 2 15

Breakage %gross 2 2 2

Total Cull (DWB) %gross 13 9 37

Stems/Ha (Live & D.P.) 777.2 621.6 16.3

Avg. DBH (Live & D.P.) 24.4 23.6 42.0

Snags/Ha

Avg Snag DBH

Gross Merch Vol/Tree m3 0.42 0.38 1.59

Net. Merch Vol/Tree m3 0.36 0.35 1.00

Avg. Weight Total Ht. m 24.5 23.8 30.8

Avg. Weight Merch Ht. m 18.1 17.3 25.9

Avg. 5.0 m Log Net Mer m3 0.12 0.12 0.22

Avg. 5.0 m Log Gr. Mer m3 0.14 0.13 0.34

Avg. # of 5.0 m Logs/Tree 3.03 2.97 4.62

Net Immature % 25 33

Lumber and Chips

%Net Merch - Stud 64 67 9

%Net Merch - Small Log 93 94 57

%Net Merch - Large Log 7 6 43

LRF Small Logs bd ft/m3 177 177 182

LRF Large Logs bd ft/m3 213 221 199

Avg LRF All bd ft/m3 179 179 189

Chip Yield units/m3 0.14 0.14 0.12

Algorithm Grades %

#1 Sawlog 1 86 93 46

#3 Sawlog (Dead) 3 13 5 54

#4 Chipper 4 1 1

#5 Chipper (Dead) 5 1 1

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage,



Compiled by : Silvicon Services Inc.  
 Cruised by : WARREN  
 Average Line Method  
 OWEN LAKE RANCH LTD.  
 Licence Number : WL1761  
 Cutting Permit : 001

\*\*\* FOR APPRAISAL PURPOSES \*\*\*  
 CUTTING PERMIT DAMAGE SUMMARY [ Insect Damage ]  
 Calculations Use All Plots in Type  
 Gross - Comp DWB  
 Forest Inventory Zone : J  
 Region : 2 - Prince Rupert  
 Useless Volumes Excluded  
 PSYU : Morice  
 District : 2 - Morice

CPDAM- 2

Filename: wl1761.ccp  
 29-Nov-2001 01:52:29PM  
 Project : WL1761  
 Version : 2001.0

Net Area: [ A : 10.3 ]  
 Gross Area: [ Grand Total : 10.3 ]  
 Species: Spruce  
 Type of Damage:

	Total	Normal	Grn-Live	Gry-Dead
Volume and Size Data				
Gross Merchantable m3	3348	2451	386	244
Net Merchantable m3	2916	2222	344	181
Net Merch - All m3/ha	283	216	33	18
Species Distribution %	82	62	12	6

Decay %gross	8	6	7	17
Waste %gross	3	2	2	6
Waste(billing) %net	3	2	2	9
Breakage %gross	2	2	2	2
Total Cull (DWB) %gross	13	9	11	26

Stems/Ha (Live & D.P.)	777.2	621.6	69.0	70.3
Avg. DBH (Live & D.P.)	24.4	23.6	26.4	23.4
Snags/Ha				
Avg Snag DBH				

Gross Merch Vol/Tree m3	0.42	0.38	0.54	0.34
Net. Merch Vol/Tree m3	0.36	0.35	0.48	0.25
Avg. Weight Total Ht. m	24.5	23.8	27.0	20.7
Avg. Weight Merch Ht. m	18.1	17.3	20.7	14.4
Avg. 5.0 m Log Net Mer m3	0.12	0.12	0.14	0.10
Avg. 5.0 m Log Gr. Mer m3	0.14	0.13	0.15	0.13
Avg. # of 5.0 m Logs/Tree	3.03	2.97	3.54	2.67

Net Immature %	25	33		
----------------	----	----	--	--

Lumber and Chips				
%Net Merch - Stud	64	67	51	89
%Net Merch - Small Log	93	94	100	100
%Net Merch - Large Log	7	6		
LRF Small Logs bd ft/m3	177	177	184	163
LRF Large Logs bd ft/m3	213	221		
Avg LRF All bd ft/m3	179	179	184	163
Chip Yield units/m3	0.14	0.14	0.13	0.15
Algorithm Grades %				
#1 Sawlog	1	86	93	100
#3 Sawlog (Dead)	3	13	5	100
#4 Chipper	4		1	
#5 Chipper (Dead)	5	1	1	

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage,



Compiled by : Silvicon Services Inc.  
 Cruised by : WARREN  
 Average Line Method  
 OWEN LAKE RANCH LTD.  
 Licence Number : WL1761  
 Cutting Permit : 001  
 Location : RIDDECK CR.

Gross - Comp DWB  
 Forest Inventory Zone : J  
 Region : 2 - Prince Rupert  
 No Of Blocks : 1

\*\*\* FOR APPRAISAL PURPOSES \*\*\*  
 APPRAISAL SUMMARY REPORT  
 Calculations Use All Plots in Type  
 Useless Volumes Excluded  
 PSYU : Morice  
 District : 2 - Morice

APPSM- 1

Filename: wl1761.ccp  
 29-Nov-2001 01:52:29PM  
 Project : WL1761  
 Version : 2001.0

Utilization Levels:	Minimum DBH	Top Diameter	Stump Height
Mature Blocks: (cm)	17.5	10.0	30
Immature Blocks:(cm)	12.0	10.0	30
Exception[PL]: (cm)	12.5	10.0	30
Standard Log Length:	5.00		

Net Area: [All Treatment Units : 10.3 ]

#### All Method Summary

	Net Volume	Decay%	Stud Log%	LRF	All Burn%
Species					
L.P.Pine	651	11	49	185	0
Spruce	2916	8	64	179	0
Conifer	3567	9	61	180	0
Total	3567	9	61	180	0

#### Harvesting Method Summaries - Conifer

Harvest Method	Net Volume	Average Slope%	Net Vol /Tree	Net Vol Hectare	Stand Defect%	Partial Cut%	All Fire%	Heavy Fire%	Down Tree%	Dead Useless%
SC	3567	12	0.39	346.288	14		0	0	5	0

#### Harvesting Method Summaries - Total

Harvest Method	Net Volume	Average Slope%	Net Vol /Tree	Net Vol Hectare	Stand Defect%	Partial Cut%	All Fire%	Heavy Fire%	Down Tree%	Dead Useless%
SC	3567	12	0.39	346.288	14		0	0	5	0

#### Cutting Authority

95% Confidence Interval	45.2
Plots/Ha	1.0
Trees/Plot	6.2

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage,



Compiled by : Silvicon Services Inc.  
 Cruised by : WARREN  
 Average Line Method  
 OWEN LAKE RANCH LTD.  
 Licence Number : WL1761  
 Cutting Permit : 001

\*\*\* FOR APPRAISAL PURPOSES \*\*\*

TYPE SUMMARY

TS- 1

Calculations Use All Plots in Type

Gross - Comp DWB  
 Forest Inventory Zone : J  
 Region : 2 - Prince Rupert

Useless Volumes Excluded  
 PSYU : Morice  
 District : 2 - Morice

Filename: wl1761.ccp  
 29-Nov-2001 01:52:29PM  
 Project : WL1761  
 Version : 2001.0

Net Area: Type 1 (M):1 S(Pl), Plots in Type: 8, TUs: [ A : 8.9 ]

	Total	Conifer	S	PL
<b>Utilization Limits</b>				
Min DBH cm (M)			17.5	12.5
Stump Ht cm (M)			30.0	30.0
Top Dia cm (M)			10.0	10.0
Log Len m			5.0	5.0
<b>Volume and Size Data</b>				
Gross Merchantable m3	3661	3661	3348	313
Net Merchantable m3	3184	3184	2916	268
Net Merch - All m3/ha	358	358	328	30
Species Distribution %	100	100	92	8
Decay %gross	8	8	8	9
Waste %gross	3	3	3	3
Waste(billing) %net	3	3	3	4
Breakage %gross	2	2	2	2
Total Cull (DWB) %gross	13	13	13	14
Stems/Ha (Live & D.P.)	974.1	974.1	899.4	74.6
Avg. DBH (Live & D.P.)	24.4	24.4	24.4	24.4
Snags/Ha				
Avg Snag DBH				
Gross Merch Vol/Tree m3	0.42	0.42	0.42	0.47
Net. Merch Vol/Tree m3	0.37	0.37	0.36	0.40
Avg. Weight Total Ht. m	24.4	24.4	24.5	23.8
Avg. Weight Merch Ht. m	18.1	18.1	18.1	18.3
Avg. 5.0 m Log Net Mer m3	0.12	0.12	0.12	0.12
Avg. 5.0 m Log Gr. Mer m3	0.14	0.14	0.14	0.14
Avg. # of 5.0 m Logs/Tree	3.06	3.06	3.03	3.45
Net Immature %	23	23	25	

<b>Lumber and Chips</b>				
%Net Merch - Stud	65	65	64	82
%Net Merch - Small Log	94	94	93	100
%Net Merch - Large Log	6	6	7	
LRF Small Logs bd ft/m3	176	176	177	174
LRF Large Logs bd ft/m3	213	213	213	
Avg LRF All bd ft/m3	179	179	179	174
Chip Yield units/m3	0.14	0.14	0.14	0.16
<b>Algorithm Grades</b>				
#1 Sawlog	1	87	87	100
#3 Sawlog (Dead)	3	12	12	13
#4 Chipper	4			
#5 Chipper (Dead)	5	1	1	1
<b>Statistical Summary</b>				
Coeff. of Variation	62.1	62.1	56.0	282.8
Two Standard Error	51.9	51.9	46.9	236.5
Number and Type of Plots	MP = 8			
Number of Potential Trees	52			
Plots/Ha				
Trees/Plot				

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage, , Wet Belt Fir



Compiled by : Silvicon Services Inc.  
 Cruised by : WARREN  
 Average Line Method  
 OWEN LAKE RANCH LTD.  
 Licence Number : WL1761  
 Cutting Permit : 001

\*\*\* FOR APPRAISAL PURPOSES \*\*\*

TYPE SUMMARY

Gross - Comp DWB  
 Forest Inventory Zone : J  
 Region : 2 - Prince Rupert

Useless Volumes Excluded  
 PSYU : Morice  
 District : 2 - Morice

TS- 2

Filename: wl1761.ccp  
 29-Nov-2001 01:52:29PM  
 Project : WL1761  
 Version : 2001.0

Net Area: Type 2 (M):2 Pl, Plots in Type: 2, TUs: [ A : 1.4 ]

	Total	Conifer	S	PL
<b>Utilization Limits</b>				
Min DBH cm (M)			17.5	12.5
Stump Ht cm (M)			30.0	30.0
Top Dia cm (M)			10.0	10.0
Log Len m			5.0	5.0
<b>Volume and Size Data</b>				
Gross Merchantable m3	477	477		477
Net Merchantable m3	383	383		383
Net Merch - All m3/ha	274	274		274
Species Distribution %	100	100		100
Decay %gross	13	13		13
Waste %gross	5	5		5
Waste(billing) %net	6	6		6
Breakage %gross	2	2		2
Total Cull (DWB) %gross	20	20		20
Stems/Ha (Live & D.P.)	353.2	353.2		353.2
Avg. DBH (Live & D.P.)	35.5	35.5		35.5
Snags/Ha				
Avg Snag DBH				
Gross Merch Vol/Tree m3	0.97	0.97		0.97
Net. Merch Vol/Tree m3	0.77	0.77		0.77
Avg. Weight Total Ht. m	24.2	24.2		24.2
Avg. Weight Merch Ht. m	19.9	19.9		19.9
Avg. 5.0 m Log Net Mer m3	0.20	0.20		0.20
Avg. 5.0 m Log Gr. Mer m3	0.25	0.25		0.25
Avg. # of 5.0 m Logs/Tree	3.88	3.88		3.88
<b>Net Immature %</b>				
<b>Lumber and Chips</b>				
%Net Merch - Stud	26	26		26
%Net Merch - Small Log	74	74		74
%Net Merch - Large Log	26	26		26
LRF Small Logs bd ft/m3	186	186		186
LRF Large Logs bd ft/m3	212	212		212
Avg LRF All bd ft/m3	193	193		193
Chip Yield units/m3	0.14	0.14		0.14
Algorithm Grades %				
#1 Sawlog 1	100	100		100
<b>Statistical Summary</b>				
Coeff. of Variation	5.4	5.4		5.4
Two Standard Error	48.2	48.2		48.2
Number and Type of Plots	MP = 2			
Number of Potential Trees	10			
Plots/Ha				
Trees/Plot				

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage, , Wet Belt Fir



Compiled by : Silvicon Services Inc.  
 Cruised by : WARREN  
 Average Line Method  
 OWEN LAKE RANCH LTD.  
 Licence Number : WL1761  
 Cutting Permit : 001

Gross - Comp DWB  
 Forest Inventory Zone : J  
 Region : 2 - Prince Rupert

\*\*\* FOR APPRAISAL PURPOSES \*\*\*  
 EXTENDED TYPE SUMMARY  
 Calculations Use All Plots in Type  
 Useless Volumes Excluded  
 PSYU : Morice  
 District : 2 - Morice

EXTTS- 1

Filename: wl1761.ccp  
 29-Nov-2001 01:52:29PM  
 Project : WL1761  
 Version : 2001.0

Net Area: Type 1 (M):1 S(Pl), Plots in Type: 8, TUs: [ A : 8.9 ]

	Total	Conifer	S	PL
<b>Utilization Limits</b>				
Min DBH cm (M)			17.5	12.5
Stump Ht cm (M)			30.0	30.0
Top Dia cm (M)			10.0	10.0
Log Len m			5.0	5.0
<b>Volume and Size Data</b>				
Gross Merchantable m3	3661	3661	3348	313
Net Merchantable m3	3184	3184	2916	268
Net Merch - All m3/ha	358	358	328	30
Species Distribution %	100	100	92	8
Decay %gross	8	8	8	9
Waste %gross	3	3	3	3
Waste(billing) %net	3	3	3	4
Breakage %gross	2	2	2	2
Total Cull (DWB) %gross	13	13	13	14
Stems/Ha (Live & D.P.)	974.1	974.1	899.4	74.6
Avg. DBH (Live & D.P.)	24.4	24.4	24.4	24.4
Snags/Ha				
Avg Snag DBH				
Gross Merch Vol/Tree m3	0.42	0.42	0.42	0.47
Net. Merch Vol/Tree m3	0.37	0.37	0.36	0.40
Avg. Weight Total Ht. m	24.4	24.4	24.5	23.8
Avg. Weight Merch Ht. m	18.1	18.1	18.1	18.3
Avg. 5.0 m Log Net Mer m3	0.12	0.12	0.12	0.12
Avg. 5.0 m Log Gr. Mer m3	0.14	0.14	0.14	0.14
Avg. # of 5.0 m Logs/Tree	3.06	3.06	3.03	3.45
Net Immature %	23	23	25	
All Burn Volume %				
Heavy Fire Volume %				
Blowdown Volume %	5	5	6	
Insect Volume %	19	19	21	
<b>Lumber and Chips</b>				
%Net Merch - Stud	65	65	64	82
%Net Merch - Small Log	94	94	93	100
%Net Merch - Large Log	6	6	7	
LRF Small Logs bd ft/m3	176	176	177	174
LRF Large Logs bd ft/m3	213	213	213	
Avg LRF All bd ft/m3	179	179	179	174
Chip Yield units/m3	0.14	0.14	0.14	0.16
<b>Algorithm Grades %</b>				
#1 Sawlog	1	87	87	86
#3 Sawlog (Dead)	3	12	12	13
#4 Chipper	4			
#5 Chipper (Dead)	5	1	1	1

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage,



Compiled by : Silvicon Services Inc.

\*\*\* FOR APPRAISAL PURPOSES \*\*\*

EXTTS- 2

Cruised by : WARREN

EXTENDED TYPE SUMMARY

Average Line Method

Calculations Use All Plots in Type

Filename: wl1761.ccp

OWEN LAKE RANCH LTD.

Gross - Comp DWB

Useless Volumes Excluded

29-Nov-2001 01:52:29PM

Licence Number : WL1761

Forest Inventory Zone : J

PSYU : Morice

Project : WL1761

Cutting Permit : 001

Region : 2 - Prince Rupert

District : 2 - Morice

Version : 2001.0

Net Area: Type 2 (M):2 Pl, Plots in Type: 2, TUs: [ A : 1.4 ]

	Total	Conifer	S	PL
<b>Utilization Limits</b>				
Min DBH cm (M)			17.5	12.5
Stump Ht cm (M)			30.0	30.0
Top Dia cm (M)			10.0	10.0
Log Len m			5.0	5.0
<b>Volume and Size Data</b>				
Gross Merchantable m3	477	477		477
Net Merchantable m3	383	383		383
Net Merch - All m3/ha	274	274		274
Species Distribution %	100	100		100
<b>Decay</b>				
%gross	13	13		13
Waste %gross	5	5		5
Waste(billing) %net	6	6		6
Breakage %gross	2	2		2
Total Cull (DWB) %gross	20	20		20
<b>Stems/Ha (Live &amp; D.P.)</b>				
Avg. DBH (Live & D.P.)	353.2	353.2		353.2
Snags/Ha	35.5	35.5		35.5
<b>Avg Snag DBH</b>				
Gross Merch Vol/Tree m3	0.97	0.97		0.97
Net. Merch Vol/Tree m3	0.77	0.77		0.77
Avg. Weight Total Ht. m	24.2	24.2		24.2
Avg. Weight Merch Ht. m	19.9	19.9		19.9
Avg. 5.0 m Log Net Mer m3	0.20	0.20		0.20
Avg. 5.0 m Log Gr. Mer m3	0.25	0.25		0.25
Avg. # of 5.0 m Logs/Tree	3.88	3.88		3.88

Net Immature %

All Burn Volume %  
 Heavy Fire Volume %  
 Blowdown Volume %  
 Insect Volume %

	Total	Conifer	S	PL
<b>Lumber and Chips</b>				
%Net Merch - Stud	26	26		26
%Net Merch - Small Log	74	74		74
%Net Merch - Large Log	26	26		26
LRF Small Logs bd ft/m3	186	186		186
LRF Large Logs bd ft/m3	212	212		212
Avg LRF All bd ft/m3	193	193		193
Chip Yield units/m3	0.14	0.14		0.14
<b>Algorithm Grades %</b>				
#1 Sawlog	1	100	100	100

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage,



Compiled by : Silvicon Services Inc.

\*\*\* FOR APPRAISAL PURPOSES \*\*\*

TSDAM- 1

Cruised by : WARREN

TYPE DAMAGE SUMMARY [ Blowdown Damage ]

Average Line Method

Calculations Use All Plots in Type

Filename: wl1761.ccp

OWEN LAKE RANCH LTD.

Gross - Comp DWB

Useless Volumes Excluded

29-Nov-2001 01:52:29PM

Licence Number : WL1761

Forest Inventory Zone : J

PSYU : Morice

Project : WL1761

Cutting Permit : 001

Region : 2 - Prince Rupert

District : 2 - Morice

Version : 2001.0

Net Area: Type 1 (M):1 S(Pl), Plots in Type: 8, TUs: [ A : 8.9 ]

Species: Spruce

Type of Damage:

Total Normal Down

Volume and Size Data

Gross Merchantable m3 3348 2451 267

Net Merchantable m3 2916 2222 169

Net Merch - All m3/ha 328 250 19

Species Distribution % 92 70 6

Decay %gross 8 6 25

Waste %gross 3 2 9

Waste(billing) %net 3 2 15

Breakage %gross 2 2 2

Total Cull (DWB) %gross 13 9 37

Stems/Ha (Live &amp; D.P.) 899.4 719.3 18.9

Avg. DBH (Live &amp; D.P.) 24.4 23.6 42.0

Snags/Ha

Avg Snag DBH

Gross Merch Vol/Tree m3 0.42 0.38 1.59

Net. Merch Vol/Tree m3 0.36 0.35 1.00

Avg. Weight Total Ht. m 24.5 23.8 30.8

Avg. Weight Merch Ht. m 18.1 17.3 25.9

Avg. 5.0 m Log Net Mer m3 0.12 0.12 0.22

Avg. 5.0 m Log Gr. Mer m3 0.14 0.13 0.34

Avg. # of 5.0 m Logs/Tree 3.03 2.97 4.62

Net Immature % 25 33

Lumber and Chips

%Net Merch - Stud 64 67 9

%Net Merch - Small Log 93 94 57

%Net Merch - Large Log 7 6 43

LRF Small Logs bd ft/m3 177 177 182

LRF Large Logs bd ft/m3 213 221 199

Avg LRF All bd ft/m3 179 179 189

Chip Yield units/m3 0.14 0.14 0.12

Algorithm Grades %

#1 Sawlog 1 86 93 46

#3 Sawlog (Dead) 3 13 5 54

#4 Chipper 4 1 1

#5 Chipper (Dead) 5 1 1

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage,



Compiled by : Silvicon Services Inc.

\*\*\* FOR APPRAISAL PURPOSES \*\*\*

TSDAM- 2

Cruised by : WARREN

TYPE DAMAGE SUMMARY [ Insect Damage ]

Average Line Method

Calculations Use All Plots in Type

OWEN LAKE RANCH LTD.

Gross - Comp DWB

Useless Volumes Excluded

Filename: wl1761.ccp

Licence Number : WL1761

Forest Inventory Zone : J

PSYU : Morice

29-Nov-2001 01:52:29PM

Cutting Permit : 001

Region : 2 - Prince Rupert

District : 2 - Morice

Project : WL1761

Version : 2001.0

Net Area: Type 1 (M):1 S(Pl), Plots in Type: 8, TUs: [ A : 8.9 ]

Species: Spruce

Type of Damage:

Total Normal Grn-Live Gry-Dead

Volume and Size Data

Gross Merchantable m3	3348	2451	386	244
Net Merchantable m3	2916	2222	344	181
Net Merch - All m3/ha	328	250	39	20
Species Distribution	92	70	12	6

Decay %gross	8	6	7	17
Waste %gross	3	2	2	6
Waste(billing) %net	3	2	2	9
Breakage %gross	2	2	2	2
Total Cull (DWB) %gross	13	9	11	26

Stems/Ha (Live & D.P.)	899.4	719.3	79.8	81.4
Avg. DBH (Live & D.P.)	24.4	23.6	26.4	23.4
Snags/Ha				
Avg Snag DBH				

Gross Merch Vol/Tree m3	0.42	0.38	0.54	0.34
Net. Merch Vol/Tree m3	0.36	0.35	0.48	0.25
Avg. Weight Total Ht. m	24.5	23.8	27.0	20.7
Avg. Weight Merch Ht. m	18.1	17.3	20.7	14.4
Avg. 5.0 m Log Net Mer m3	0.12	0.12	0.14	0.10
Avg. 5.0 m Log Gr. Mer m3	0.14	0.13	0.15	0.13
Avg. # of 5.0 m Logs/Tree	3.03	2.97	3.54	2.67

Net Immature %	25	33		
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Lumber and Chips

%Net Merch - Stud	64	67	51	89
%Net Merch - Small Log	93	94	100	100
%Net Merch - Large Log	7	6		
LRF Small Logs bd ft/m3	177	177	184	163
LRF Large Logs bd ft/m3	213	221		
Avg LRF All bd ft/m3	179	179	184	163
Chip Yield units/m3	0.14	0.14	0.13	0.15

Algorithm Grades %

#1 Sawlog	1	86	93	100
#3 Sawlog (Dead)	3	13	5	100
#4 Chipper	4		1	
#5 Chipper (Dead)	5	1	1	

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage,



Compiled by : Silvicon Services Inc.  
 Cruised by : WARREN  
 Average Line Method  
 OWEN LAKE RANCH LTD.  
 Licence Number : WL1761  
 Cutting Permit : 001

\*\*\* FOR APPRAISAL PURPOSES \*\*\*  
 BLOCK SUMMARY  
 Calculations Use All Plots in Type  
 Gross - Comp DWB Useless Volumes Excluded  
 Forest Inventory Zone : J PSYU : Morice  
 Region : 2 - Prince Rupert District : 2 - Morice

BS- 1

Filename: wl1761.ccp  
 29-Nov-2001 01:52:29PM  
 Project : WL1761  
 Version : 2001.0

Net Area: Block : (M) - 001:Block 1, Plots in Block: 10, TUs: { A : 10.3 }

	Total	Conifer	S	PL
Utilization Limits				
Min DBH cm (M)			17.5	12.5
Stump Ht cm (M)			30.0	30.0
Top Dia cm (M)			10.0	10.0
Log Len m			5.0	5.0
Volume and Size Data				
Gross Merchantable m3	4139	4139	3348	791
Net Merchantable m3	3567	3567	2916	651
Net Merch - All m3/ha	346	346	283	63
Species Distribution %	100	100	82	18
Decay %gross	9	9	8	11
Waste %gross	3	3	3	4
Waste(billing) %net	3	3	3	5
Breakage %gross	2	2	2	2
Total Cull (DWB) %gross	14	14	13	18
Stems/Ha (Live & D.P.)	889.7	889.7	777.2	112.5
Avg. DBH (Live & D.P.)	25.1	25.1	24.4	29.7
Snags/Ha				
Avg Snag DBH				
Gross Merch Vol/Tree m3	0.45	0.45	0.42	0.68
Net. Merch Vol/Tree m3	0.39	0.39	0.36	0.56
Avg. Weight Total Ht. m	24.4	24.4	24.5	24.0
Avg. Weight Merch Ht. m	18.3	18.3	18.1	19.2
Avg. 5.0 m Log Net Mer m3	0.13	0.13	0.12	0.16
Avg. 5.0 m Log Gr. Mer m3	0.15	0.15	0.14	0.19
Avg. # of 5.0 m Logs/Tree	3.10	3.10	3.03	3.63
Net Immature %	21	21	25	
% Average Slope	12			
Lumber and Chips				
%Net Merch - Stud	61	61	64	49
%Net Merch - Small Log	92	92	93	85
%Net Merch - Large Log	8	8	7	15
LRF Small Logs bd ft/m3	177	177	177	180
LRF Large Logs bd ft/m3	213	213	213	212
Avg LRF All bd ft/m3	180	180	179	185
Chip Yield units/m3	0.14	0.14	0.14	0.15
Algorithm Grades %				
#1 Sawlog	1	89	89	86
#3 Sawlog (Dead)	3	11	11	13
#4 Chipper	4			
#5 Chipper (Dead)	5		1	
Statistical Summary				
Coeff. of Variation	55.4	55.4	56.0	116.5
Two Standard Error	45.2	45.2	45.7	95.1
Number and Type of Plots	MP = 10			
Number of Potential Trees	62			
Plots/Ha				
Trees/Plot				

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage, , Wet Belt Fir



Compiled by : Silvicon Services Inc.  
 Cruised by : WARREN  
 Average Line Method  
 OWEN LAKE RANCH LTD.  
 Licence Number : WL1761  
 Cutting Permit : 001

Gross - Comp DWB  
 Forest Inventory Zone : J  
 Region : 2 - Prince Rupert

\*\*\* FOR APPRAISAL PURPOSES \*\*\*  
 EXTENDED BLOCK SUMMARY  
 Calculations Use All Plots in Type  
 Useless Volumes Excluded  
 PSYU : Morice  
 District : 2 - Morice

EXTBL- 1

Filename: wl1761.ccp  
 29-Nov-2001 01:52:29PM  
 Project : WL1761  
 Version : 2001.0

Net Area: Block : (M) - 001:Block 1, Plots in Block: 10, TUs: [ A : 10.3 ]

	Total	Conifer	S	PL
<b>Utilization Limits</b>				
Min DBH cm (M)			17.5	12.5
Stump Ht cm (M)			30.0	30.0
Top Dia cm (M)			10.0	10.0
Log Len m			5.0	5.0
<b>Volume and Size Data</b>				
Gross Merchantable m3	4139	4139	3348	791
Net Merchantable m3	3567	3567	2916	651
Net Merch - All m3/ha	346	346	283	63
Species Distribution %	100	100	82	18
<b>Decay</b>				
%gross	9	9	8	11
Waste %gross	3	3	3	4
Waste(billing) %net	3	3	3	5
Breakage %gross	2	2	2	2
Total Cull (DWB) %gross	14	14	13	18
<b>Stems/Ha (Live &amp; D.P.)</b>				
Avg. DBH (Live & D.P.)	25.1	25.1	24.4	29.7
Snags/Ha				
Avg Snag DBH				
<b>Gross Merch Vol/Tree m3</b>				
Net. Merch Vol/Tree m3	0.45	0.45	0.42	0.68
Avg. Weight Total Ht. m	24.4	24.4	24.5	24.0
Avg. Weight Merch Ht. m	18.3	18.3	18.1	19.2
Avg. 5.0 m Log Net Mer m3	0.13	0.13	0.12	0.16
Avg. 5.0 m Log Gr. Mer m3	0.15	0.15	0.14	0.19
Avg. # of 5.0 m Logs/Tree	3.10	3.10	3.03	3.63
<b>Net Immature %</b>				
	21	21	25	
<b>% Average Slope</b>				
	12			
<b>All Burn Volume %</b>				
Heavy Fire Volume %				
Blowdown Volume %	5	5	6	
Insect Volume %	17	17	21	
<b>Lumber and Chips</b>				
%Net Merch - Stud	61	61	64	49
%Net Merch - Small Log	92	92	93	85
%Net Merch - Large Log	8	8	7	15
LRF Small Logs bd ft/m3	177	177	177	180
LRF Large Logs bd ft/m3	213	213	213	212
Avg LRF All bd ft/m3	180	180	179	185
Chip Yield units/m3	0.14	0.14	0.14	0.15
<b>Algorithm Grades %</b>				
#1 Sawlog	1	89	86	100
#3 Sawlog (Dead)	3	11	13	
#4 Chipper	4			
#5 Chipper (Dead)	5		1	

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage,



Compiled by : Silvicon Services Inc.

\*\*\* FOR APPRAISAL PURPOSES \*\*\*

BSDAM- 1

Cruised by : WARREN

BLOCK DAMAGE SUMMARY [ Blowdown Damage ]

Average Line Method

Calculations Use All Plots in Type

Filename: wl1761.ccp

OWEN LAKE RANCH LTD.

Gross - Comp DWB

Useless Volumes Excluded

29-Nov-2001 01:52:29PM

Licence Number : WL1761

Forest Inventory Zone : J

PSYU : Morice

Project : WL1761

Cutting Permit : 001

Region : 2 - Prince Rupert

District : 2 - Morice

Version : 2001.0

Net Area: Block : (M) - 001:Block 1, Plots in Block: 10, TUs: [ A : 10.3 ]

Species: Spruce

Type of Damage:

Total Normal Down

Volume and Size Data

Gross Merchantable m3 3348 2451 267

Net Merchantable m3 2916 2222 169

Net Merch - All m3/ha 283 216 16

Species Distribution % 82 62 6

Decay %gross 8 6 25

Waste %gross 3 2 9

Waste(billing) %net 3 2 15

Breakage %gross 2 2 2

Total Cull (DWB) %gross 13 9 37

Stems/Ha (Live & D.P.) 777.2 621.6 16.3

Avg. DBH (Live & D.P.) 24.4 23.6 42.0

Snags/Ha

Avg Snag DBH

Gross Merch Vol/Tree m3 0.42 0.38 1.59

Net. Merch Vol/Tree m3 0.36 0.35 1.00

Avg. Weight Total Ht. m 24.5 23.8 30.8

Avg. Weight Merch Ht. m 18.1 17.3 25.9

Avg. 5.0 m Log Net Mer m3 0.12 0.12 0.22

Avg. 5.0 m Log Gr. Mer m3 0.14 0.13 0.34

Avg. # of 5.0 m Logs/Tree 3.03 2.97 4.62

Net Immature % 25 33

Lumber and Chips

%Net Merch - Stud 64 67 9

%Net Merch - Small Log 93 94 57

%Net Merch - Large Log 7 6 43

LRF Small Logs bd ft/m3 177 177 182

LRF Large Logs bd ft/m3 213 221 199

Avg LRF All bd ft/m3 179 179 189

Chip Yield units/m3 0.14 0.14 0.12

Algorithm Grades %

#1 Sawlog 1 86 93 46

#3 Sawlog (Dead) 3 13 5 54

#4 Chipper 4 1 1

#5 Chipper (Dead) 5 1 1

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage,



Compiled by : Silvicon Services Inc.

\*\*\* FOR APPRAISAL PURPOSES \*\*\*

BSDAM- 2

Cruised by : WARREN

BLOCK DAMAGE SUMMARY [ Insect Damage ]

Average Line Method

Calculations Use All Plots in Type

Filename: wl1761.ccp

OWEN LAKE RANCH LTD.

Gross - Comp DWB

Useless Volumes Excluded

29-Nov-2001 01:52:29PM

Licence Number : WL1761

Forest Inventory Zone : J

PSYU : Morice

Project : WL1761

Cutting Permit : 001

Region : 2 - Prince Rupert

District : 2 - Morice

Version : 2001.0

Net Area: Block : (M) - 001:Block 1, Plots in Block: 10, TUs: [ A : 10.3 ]

Species: Spruce

Type of Damage:

Total Normal Grn-Live Gry-Dead

Volume and Size Data

	Total	Normal	Grn-Live	Gry-Dead
Gross Merchantable m3	3348	2451	386	244
Net Merchantable m3	2916	2222	344	181
Net Merch - All m3/ha	283	216	33	18
Species Distribution %	82	62	12	6
Decay %gross	8	6	7	17
Waste %gross	3	2	2	6
Waste(billing) %net	3	2	2	9
Breakage %gross	2	2	2	2
Total Cull (DWB) %gross	13	9	11	26
Stems/Ha (Live & D.P.)	777.2	621.6	69.0	70.3
Avg. DBH (Live & D.P.)	24.4	23.6	26.4	23.4
Snags/Ha				
Avg Snag DBH				
Gross Merch Vol/Tree m3	0.42	0.38	0.54	0.34
Net. Merch Vol/Tree m3	0.36	0.35	0.48	0.25
Avg. Weight Total Ht. m	24.5	23.8	27.0	20.7
Avg. Weight Merch Ht. m	18.1	17.3	20.7	14.4
Avg. 5.0 m Log Net Mer m3	0.12	0.12	0.14	0.10
Avg. 5.0 m Log Gr. Mer m3	0.14	0.13	0.15	0.13
Avg. # of 5.0 m Logs/Tree	3.03	2.97	3.54	2.67
Net Immature %	25	33		
Lumber and Chips				
%Net Merch - Stud	64	67	51	89
%Net Merch - Small Log	93	94	100	100
%Net Merch - Large Log	7	6		
LRF Small Logs bd ft/m3	177	177	184	163
LRF Large Logs bd ft/m3	213	221		
Avg LRF All bd ft/m3	179	179	184	163
Chip Yield units/m3	0.14	0.14	0.13	0.15
Algorithm Grades %				
#1 Sawlog	1	86	93	100
#3 Sawlog (Dead)	3	13	5	100
#4 Chipper	4		1	
#5 Chipper (Dead)	5	1	1	

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage,



Compiled by : Silvicon Services Inc.  
 Cruised by : WARREN  
 Average Line Method  
 OWEN LAKE RANCH LTD.  
 Licence Number : WL1761  
 Cutting Permit : 001

\*\*\* FOR APPRAISAL PURPOSES \*\*\*  
 LOG DISTRIBUTION BY CUTTING PERMIT  
 Calculations Use All Plots in Type  
 Gross - Comp DWB  
 Forest Inventory Zone : J  
 Region : 2 - Prince Rupert  
 Useless Volumes Excluded  
 PSYU : Morice  
 District : 2 - Morice

LDCP- 1

Filename: wl1761.ccp  
 29-Nov-2001 01:52:29PM  
 Project : WL1761  
 Version : 2001.0

Treatment Units : { A : 10.3 }

Species	10	15	Top Diameter		30	35	40	Total
			20	25				
All Species								
No. of Logs	919.0	993.3	453.1	262.7	90.4	32.0	6.9	2760.5
Volume (m3)	56.3	104.7	72.0	63.0	29.7	14.3	3.2	346.3
Volume/Log	0.061	0.105	0.159	0.240	0.329	0.447	0.461	0.125
Lineal Metre	4649.9	4966.5	2265.3	1313.5	451.8	160.1	34.5	13857.4
Conifers								
No. of Logs	919.0	993.3	453.1	262.7	90.4	32.0	6.9	2760.5
Volume (m3)	56.3	104.7	72.0	63.0	29.7	14.3	3.2	346.3
Volume/Log	0.061	0.105	0.159	0.240	0.329	0.447	0.461	0.125
Lineal Metre	4649.9	4966.5	2265.3	1313.5	451.8	160.1	34.5	13857.4
L.P.Pine								
No. of Logs	112.5	90.4	119.7	43.5	32.8	7.2	2.7	408.7
Volume (m3)	7.8	9.7	19.0	10.7	11.3	3.2	1.6	63.2
Volume/Log	0.070	0.107	0.159	0.245	0.344	0.443	0.573	0.155
Lineal Metre	606.3	452.0	598.4	217.4	163.8	35.9	13.6	2087.5
Spruce								
No. of Logs	806.6	902.9	333.4	219.2	57.6	24.8	4.2	2351.8
Volume (m3)	48.5	95.0	53.0	52.3	18.4	11.1	1.6	283.1
Volume/Log	0.060	0.105	0.159	0.239	0.320	0.448	0.388	0.120
Lineal Metre	4043.6	4514.5	1666.8	1096.1	288.0	124.2	20.9	11769.8

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage,



Compiled by : Silvicon Services Inc.  
 Cruised by : WARREN  
 Average Line Method  
 OWEN LAKE RANCH LTD.  
 Licence Number : WL1761  
 Cutting Permit : 001

\*\*\* FOR APPRAISAL PURPOSES \*\*\*  
 LOG DISTRIBUTION BY TYPE  
 Calculations Use All Plots in Type  
 Gross - Comp DWB  
 Forest Inventory Zone : J  
 Region : 2 - Prince Rupert  
 Useless Volumes Excluded  
 PSYU : Morice  
 District : 2 - Morice

LDTYP- 1

Filename: wl1761.ccp  
 29-Nov-2001 01:52:29PM  
 Project : WL1761  
 Version : 2001.0

Type 1 (M):1 S(Pl), Plots in Type: 8, TUs: [ A : 8.9 ]

Species	10	15	Top Diameter		20	25	30	35	40	Total
All Species										
No. of Logs	1008.1	1127.5	473.2	266.5	66.7	28.7	4.8			2979.1
Volume (m3)	61.3	118.5	74.6	63.6	21.3	12.9	1.9			357.7
Volume/Log	0.061	0.105	0.158	0.239	0.320	0.448	0.388			0.120
Lineal Metre	5102.1	5637.3	2366.2	1332.5	333.3	143.7	24.2			14957.5
Conifers										
No. of Logs	1008.1	1127.5	473.2	266.5	66.7	28.7	4.8			2979.1
Volume (m3)	61.3	118.5	74.6	63.6	21.3	12.9	1.9			357.7
Volume/Log	0.061	0.105	0.158	0.239	0.320	0.448	0.388			0.120
Lineal Metre	5102.1	5637.3	2366.2	1332.5	333.3	143.7	24.2			14957.5
L.P.Pine										
No. of Logs	74.6	82.5	87.4	12.8						257.4
Volume (m3)	5.2	8.5	13.3	3.1						30.1
Volume/Log	0.070	0.104	0.152	0.240						0.117
Lineal Metre	422.4	412.6	437.1	64.0						1336.2
Spruce										
No. of Logs	933.4	1044.9	385.8	253.7	66.7	28.7	4.8			2721.8
Volume (m3)	56.1	109.9	61.3	60.6	21.3	12.9	1.9			327.6
Volume/Log	0.060	0.105	0.159	0.239	0.320	0.448	0.388			0.120
Lineal Metre	4679.7	5224.6	1929.0	1268.5	333.3	143.7	24.2			13621.3

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage,



Compiled by : Silvicon Services Inc.  
 Cruised by : WARREN  
 Average Line Method  
 OWEN LAKE RANCH LTD.  
 Licence Number : WL1761  
 Cutting Permit : 001

\*\*\* FOR APPRAISAL PURPOSES \*\*\*  
 LOG DISTRIBUTION BY TYPE  
 Calculations Use All Plots in Type  
 Gross - Comp DWB  
 Forest Inventory Zone : J  
 Region : 2 - Prince Rupert  
 Useless Volumes Excluded  
 PSYU : Morice  
 District : 2 - Morice

LDTYP- 2

Filename: wl1761.ccp  
 29-Nov-2001 01:52:29PM  
 Project : WL1761  
 Version : 2001.0

Type 2 (M):2 Pl, Plots in Type: 2, TUs: [ A : 1.4 ]

Species	Top Diameter							Total
	10	15	20	25	30	35	40	
All Species								
No. of Logs	353.2	140.5	324.8	238.6	241.1	52.9	20.0	1371.0
Volume (m3)	24.4	17.0	55.4	59.0	83.0	23.4	11.5	273.6
Volume/Log	0.069	0.121	0.170	0.247	0.344	0.443	0.573	0.200
Lineal Metre	1775.0	702.6	1623.9	1192.9	1205.4	264.3	100.0	6864.1
Conifers								
No. of Logs	353.2	140.5	324.8	238.6	241.1	52.9	20.0	1371.0
Volume (m3)	24.4	17.0	55.4	59.0	83.0	23.4	11.5	273.6
Volume/Log	0.069	0.121	0.170	0.247	0.344	0.443	0.573	0.200
Lineal Metre	1775.0	702.6	1623.9	1192.9	1205.4	264.3	100.0	6864.1
L.P.Pine								
No. of Logs	353.2	140.5	324.8	238.6	241.1	52.9	20.0	1371.0
Volume (m3)	24.4	17.0	55.4	59.0	83.0	23.4	11.5	273.6
Volume/Log	0.069	0.121	0.170	0.247	0.344	0.443	0.573	0.200
Lineal Metre	1775.0	702.6	1623.9	1192.9	1205.4	264.3	100.0	6864.1

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage,



Compiled by : Silvicon Services Inc.  
 Cruised by : WARREN  
 Average Line Method  
 OWEN LAKE RANCH LTD.  
 Licence Number : WL1761  
 Cutting Permit : 001

\*\*\* FOR APPRAISAL PURPOSES \*\*\*  
 LOG DISTRIBUTION BY BLOCK  
 Calculations Use All Plots in Type  
 Gross - Comp DWB  
 Forest Inventory Zone : J  
 Region : 2 - Prince Rupert  
 Useless Volumes Excluded  
 PSYU : Morice  
 District : 2 - Morice

LDBLK- 1

Filename: wl1761.ccp  
 29-Nov-2001 01:52:29PM  
 Project : WL1761  
 Version : 2001.0

Block : (M) - 001:Block 1, Plots in Block: 10, TUs: [ A : 10.3 ]

Species	10	15	Top Diameter		20	25	30	35	40	Total
All Species										
No. of Logs	919.0	993.3	453.1	262.7	90.4	32.0	6.9	2760.5		
Volume (m3)	56.3	104.7	72.0	63.0	29.7	14.3	3.2	346.3		
Volume/Log	0.061	0.105	0.159	0.240	0.329	0.447	0.461	0.125		
Lineal Metre	4649.9	4966.5	2265.3	1313.5	451.8	160.1	34.5	13857.4		
Conifers										
No. of Logs	919.0	993.3	453.1	262.7	90.4	32.0	6.9	2760.5		
Volume (m3)	56.3	104.7	72.0	63.0	29.7	14.3	3.2	346.3		
Volume/Log	0.061	0.105	0.159	0.240	0.329	0.447	0.461	0.125		
Lineal Metre	4649.9	4966.5	2265.3	1313.5	451.8	160.1	34.5	13857.4		
L.P.Pine										
No. of Logs	112.5	90.4	119.7	43.5	32.8	7.2	2.7	408.7		
Volume (m3)	7.8	9.7	19.0	10.7	11.3	3.2	1.6	63.2		
Volume/Log	0.070	0.107	0.159	0.245	0.344	0.443	0.573	0.155		
Lineal Metre	606.3	452.0	598.4	217.4	163.8	35.9	13.6	2087.5		
Spruce										
No. of Logs	806.6	902.9	333.4	219.2	57.6	24.8	4.2	2351.8		
Volume (m3)	48.5	95.0	53.0	52.3	18.4	11.1	1.6	283.1		
Volume/Log	0.060	0.105	0.159	0.239	0.320	0.448	0.388	0.120		
Lineal Metre	4043.6	4514.5	1666.8	1096.1	288.0	124.2	20.9	11769.8		

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage,



Compiled by : Silvicon Services Inc.  
 Cruised by : WARREN  
 Average Line Method  
 OWEN LAKE RANCH LTD.  
 Licence Number : WL1761  
 Cutting Permit : 001

\*\*\* FOR APPRAISAL PURPOSES \*\*\*

LOG REPORT

LOG- 1

Gross - Comp DWB  
 Forest Inventory Zone : J  
 Region : 2 - Prince Rupert

Useless Volumes Excluded  
 PSYU : Morice  
 District : 2 - Morice

Filename: wl1761.ccp  
 29-Nov-2001 01:52:29PM  
 Project : WL1761  
 Version : 2001.0

Utilization Levels:

Minimum DBH	Top Diameter	Stump Height
Mature Blocks: (cm)	17.5	10.0
Immature Blocks:(cm)	12.0	10.0
Exception[PL]: (cm)	12.5	10.0
Standard Log Length:	5.00	
Minimum Log Length :	2.5	
Maximum Log Length :	7.5	

Block	Strip	Plot	Type	Tree	Species	Log	Length	Volume							Grade	# of Logs	Stems Per/HA						
								DIB Top	DIB Bottom	Gross Merch	Less Decay	Less DW	Less DWB										
001	02	4	1	1	Spruce	1	5.00	14.06	20.14	0.098	0.098	0.098	0.096	1	2	281.30							
						2	5.59	10.00	14.06	0.066	0.066	0.066	0.065	1									
						Merch Ht	10.89	DBH = 17.80		0.164	0.164	0.164	0.161										
						1	5.00	16.80	24.22	0.140	0.140	0.140	0.137	1									
						2	5.00	13.00	16.80	0.089	0.089	0.089	0.088	1									
						3	2.80	10.00	13.00	0.029	0.029	0.029	0.029	1									
						Merch Ht	13.10	DBH = 21.20		0.259	0.259	0.259	0.254										
						1	5.00	16.83	24.31	0.141	0.141	0.141	0.138	1									
						2	5.00	12.88	16.83	0.089	0.089	0.089	0.087	1									
						3	2.61	10.00	12.88	0.027	0.027	0.027	0.027	1									
						Merch Ht	12.91	DBH = 21.30		0.257	0.257	0.257	0.252										
						1	5.00	14.04	20.27	0.099	0.099	0.099	0.097	1									
						2	5.04	10.00	14.04	0.060	0.060	0.060	0.058	1									
						Merch Ht	10.34	DBH = 18.00		0.159	0.159	0.159	0.155										
						1	5.00	14.34	20.40	0.100	0.100	0.100	0.098	1									
						2	6.60	10.00	14.34	0.081	0.081	0.081	0.079	1									
						Merch Ht	11.90	DBH = 17.90		0.181	0.181	0.181	0.177										
		5	1	3	Spruce	1	5.00	15.66	22.34	0.119	0.119	0.119	0.117	1	3	234.39							
						2	5.00	12.58	15.66	0.080	0.080	0.080	0.078	1									
						3	2.92	10.00	12.58	0.030	0.030	0.030	0.029	1									
						Merch Ht	13.22	DBH = 19.50		0.229	0.229	0.229	0.225										
						1	5.00	16.24	23.52	0.132	0.132	0.132	0.129	1									
						2	6.84	10.00	16.24	0.099	0.099	0.099	0.097	1									
						Merch Ht	12.14	DBH = 20.70		0.231	0.231	0.231	0.226										
						1	5.00	19.53	28.35	0.189	0.189	0.189	0.185	1									
						2	5.00	15.41	19.53	0.122	0.122	0.122	0.120	1									
						3	4.48	10.00	15.41	0.059	0.059	0.059	0.058	1									
						Merch Ht	14.78	DBH = 24.60		0.371	0.371	0.371	0.363										
						1	5.00	17.28	24.95	0.148	0.148	0.148	0.145	1									
						2	5.00	13.43	17.28	0.095	0.095	0.095	0.093	1									
						3	3.13	10.00	13.43	0.034	0.034	0.034	0.034	1									
						Merch Ht	13.43	DBH = 21.80		0.277	0.277	0.277	0.272										
						1	5.00	14.86	21.32	0.109	0.109	0.109	0.107	1									
						2	6.26	10.00	14.86	0.080	0.080	0.080	0.078	1									
						Merch Ht	11.56	DBH = 18.80		0.189	0.189	0.189	0.186										
		6	1	2	Spruce	1	5.00	17.04	24.58	0.144	0.142	0.142	0.139	1	3	192.81							
						2	5.00	13.22	17.04	0.092	0.091	0.091	0.089	1									
						3	2.97	10.00	13.22	0.032	0.032	0.032	0.031	1									
						Merch Ht	13.27	DBH = 21.50		0.268	0.265	0.265	0.260										
						1	5.00	19.01	27.41	0.177	0.175	0.175	0.172	1									
						2	5.00	15.50	19.01	0.119	0.118	0.118	0.115	1									
						3	5.18	10.00	15.50	0.069	0.068	0.068	0.067	1									
						Merch Ht	15.48	DBH = 23.70		0.365	0.361	0.361	0.354										
						1	5.00	44.00	67.65	0.997	0.987	0.987	0.967	1									
						2	5.00	36.26	44.00	0.637	0.631	0.631	0.618	1									
						3	5.00	26.66	36.26	0.396	0.392	0.392	0.384	1									
						4	7.08	10.00	26.66	0.204	0.202	0.202	0.198	1									
						Merch Ht	22.38	DBH = 55.20		2.235	2.212	2.212	2.168										
						03	8	1	1	Spruce	1	5.00	33.47	49.64			0.552	0.528	0.524	0.512	1	5	52.76
											2	5.00	29.27	33.47			0.388	0.371	0.368	0.360	1		
											3	5.00	23.89	29.27			0.281	0.269	0.266	0.261	1		
											4	5.00	16.93	23.89			0.167	0.160	0.159	0.155	1		
											5	4.20	10.00	16.93			0.062	0.059	0.059	0.057	1		
											Merch Ht	24.50	DBH = 41.10				1.450	1.387	1.375	1.346			
		1	5.00	17.91	25.59						0.153	0.148	0.148	0.145	1								
		2	5.00	15.79	17.91						0.112	0.108	0.108	0.106	1								
		3	5.00	12.70	15.79						0.081	0.078	0.078	0.077	1								
		4	3.31	10.00	12.70						0.034	0.033	0.033	0.032	1								
		Merch Ht	18.61	DBH = 21.70							0.381	0.367	0.367	0.359									
		1	5.00	19.46	27.98						0.184	0.177	0.177	0.173	1								
		2	5.00	16.43	19.46						0.128	0.123	0.123	0.121	1								
		3	6.72	10.00	16.43			0.097	0.094	0.094	0.092	1											
		Merch Ht	17.02	DBH = 24.00				0.409	0.394	0.393	0.385												
		1	5.00	33.23	49.26			0.544	0.474	0.449	0.439	1											
		2	5.00	29.08	33.23			0.383	0.334	0.316	0.309	1											
		3	5.00	23.74	29.08			0.277	0.242	0.229	0.224	1											
		4	5.00	16.83	23.74			0.165	0.144	0.136	0.133	1											
		5	4.17	10.00	16.83			0.061	0.053	0.050	0.049	1											
		Merch Ht	24.47	DBH = 40.80				1.431	1.247	1.182	1.153												
		1	5.00	19.57	28.45			0.190	0.183	0.183	0.179	1											
		2	5.00	15.35	19.57			0.122	0.118	0.118	0.115	1											
		3	4.35	10.00	15.35			0.057	0.055	0.055	0.053	1											
		Merch Ht	14.65	DBH = 24.70				0.370	0.356	0.355	0.348												

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage,



Compiled by : Silvicon Services Inc.

\*\*\* FOR APPRAISAL PURPOSES \*\*\*

LOG- 2

Cruised by : WARREN  
Average Line Method  
OWEN LAKE RANCH LTD.  
Licence Number : WL1761  
Cutting Permit : 001

Gross - Comp DWB  
Forest Inventory Zone : J  
Region : 2 - Prince Rupert

LOG REPORT  
Calculations Use All Plots in Type  
Useless Volumes Excluded  
PSYU : Morice  
District : 2 - Morice

Filename: wl1761.ccp  
29-Nov-2001 01:52:29PM  
Project : WL1761  
Version : 2001.0

Utilization Levels:

Minimum DBH	Top Diameter	Stump Height
Mature Blocks: (cm)	17.5	10.0
Immature Blocks: (cm)	12.0	10.0
Exception[PL]: (cm)	12.5	10.0
Standard Log Length:	5.00	
Minimum Log Length :	2.5	
Maximum Log Length :	7.5	

Block	Strip	Plot	Type	Tree	Species	Log	Length	Volume								# of Logs	Stems Per/HA
								DIB Top	DIB Bottom	Gross Merch	Less Decay	Less DW	Less DWB	Grade			
001	03	8	1	7	Spruce	1	5.00	23.08	33.50	0.260	0.197	0.167	0.162	3	4	109.73	
						2	5.00	19.58	23.08	0.181	0.137	0.116	0.113	3			
						3	5.00	14.59	19.58	0.117	0.089	0.076	0.073	3			
						4	3.58	10.00	14.59	0.043	0.033	0.028	0.027	3			
			Merch Ht		18.88	DBH =	28.50	0.601	0.456	0.387	0.375						
			1	8	Spruce	1	5.00	22.53	32.65	0.247	0.238	0.237	0.232	1	4	115.32	
						2	5.00	19.15	22.53	0.172	0.166	0.165	0.162	1			
						3	5.00	14.29	19.15	0.112	0.108	0.108	0.105	1			
						4	3.44	10.00	14.29	0.041	0.039	0.039	0.038	1			
			Merch Ht		18.74	DBH =	27.80	0.573	0.551	0.548	0.537						
			9	1	1	Spruce	1	5.00	19.08	27.52	0.179	0.157	0.150	0.147	1	3	157.35
							2	5.00	15.51	19.08	0.120	0.105	0.101	0.098	1		
							3	5.13	10.00	15.51	0.068	0.060	0.058	0.056	1		
							Merch Ht		15.43	DBH =	23.80	0.366	0.322	0.309	0.302		
			1	3	Spruce	1	5.00	16.97	24.29	0.140	0.124	0.119	0.116	1	3	200.19	
						2	5.00	13.80	16.97	0.095	0.083	0.080	0.079	1			
						3	4.06	10.00	13.80	0.046	0.041	0.039	0.038	1			
						Merch Ht		14.36	DBH =	21.10	0.281	0.248	0.239	0.233			
			1	4	Spruce	1	5.00	27.96	40.98	0.382	0.334	0.318	0.310	1	4	75.76	
						2	5.00	24.38	27.96	0.271	0.237	0.225	0.220	1			
						3	5.00	19.58	24.38	0.193	0.168	0.160	0.157	1			
						4	7.21	10.00	19.58	0.132	0.116	0.110	0.108	1			
			Merch Ht		22.51	DBH =	34.30	0.978	0.855	0.814	0.794						
			1	5	Spruce	1	5.00	27.06	39.55	0.356	0.341	0.339	0.332	1	5	81.84	
						2	5.00	23.96	27.06	0.257	0.246	0.244	0.239	1			
						3	5.00	19.83	23.96	0.191	0.183	0.182	0.178	1			
						4	5.00	14.34	19.83	0.117	0.112	0.112	0.109	1			
						5	3.31	10.00	14.34	0.039	0.038	0.037	0.036	1			
			Merch Ht		23.61	DBH =	33.00	0.960	0.920	0.913	0.894						
			1	6	Spruce	1	5.00	32.92	48.71	0.530	0.462	0.437	0.427	1	5	55.70	
						2	5.00	29.59	32.92	0.384	0.335	0.317	0.310	1			
						3	5.00	25.52	29.59	0.301	0.262	0.248	0.242	1			
						4	5.00	20.21	25.52	0.208	0.182	0.172	0.168	1			
						5	7.48	10.00	20.21	0.143	0.125	0.118	0.115	1			
			Merch Ht		27.78	DBH =	40.00	1.566	1.365	1.293	1.262						
			1	7	Spruce	1	5.00	27.89	40.83	0.378	0.363	0.360	0.353	1	5	77.10	
						2	5.00	24.73	27.89	0.273	0.262	0.260	0.254	1			
						3	5.00	20.58	24.73	0.204	0.196	0.194	0.190	1			
						4	5.00	15.06	20.58	0.127	0.122	0.121	0.119	1			
						5	3.81	10.00	15.06	0.048	0.046	0.046	0.045	1			
Merch Ht		24.11	DBH =	34.00	1.030	0.988	0.981	0.960									
1	8	Spruce	1	5.00	25.54	37.20	0.315	0.276	0.264	0.258	1	5	92.74				
			2	5.00	22.82	25.54	0.230	0.202	0.193	0.188	1						
			3	5.00	19.21	22.82	0.175	0.154	0.147	0.143	1						
			4	5.00	14.37	19.21	0.113	0.099	0.094	0.092	1						
			5	3.71	10.00	14.37	0.044	0.039	0.037	0.036	1						
Merch Ht		24.01	DBH =	31.00	0.878	0.769	0.735	0.718									
1	9	Spruce	1	5.00	39.22	58.73	0.762	0.497	0.403	0.388	3	5	38.68				
			2	5.00	34.70	39.22	0.538	0.350	0.284	0.274	3						
			3	5.00	29.25	34.70	0.405	0.264	0.214	0.206	3						
			4	5.00	22.31	29.25	0.265	0.173	0.140	0.135	3						
			5	7.18	10.00	22.31	0.158	0.103	0.084	0.080	3						
Merch Ht		27.48	DBH =	48.00	2.128	1.387	1.126	1.083									
1	10	Spruce	1	5.00	24.06	34.95	0.279	0.268	0.267	0.261	1	5	105.25				
			2	5.00	21.63	24.06	0.206	0.198	0.197	0.193	1						
			3	5.00	18.42	21.63	0.159	0.153	0.152	0.149	1						
			4	5.00	14.07	18.42	0.105	0.101	0.101	0.099	1						
			5	3.81	10.00	14.07	0.044	0.042	0.042	0.041	1						
Merch Ht		24.11	DBH =	29.10	0.793	0.762	0.759	0.743									
1	11	Spruce	1	5.00	26.74	39.06	0.348	0.304	0.290	0.283	1	4	83.35				
			2	5.00	23.49	26.74	0.249	0.218	0.207	0.202	1						
			3	5.00	19.11	23.49	0.181	0.158	0.150	0.147	1						
			4	7.41	10.00	19.11	0.131	0.115	0.109	0.107	1						
Merch Ht		22.71	DBH =	32.70	0.909	0.795	0.756	0.738									
1	14	Spruce	1	5.00	32.03	47.49	0.508	0.355	0.294	0.284	3	4	56.84				
			2	5.00	27.47	32.03	0.350	0.245	0.202	0.195	3						
			3	5.00	21.45	27.47	0.239	0.167	0.138	0.133	3						
			4	7.11	10.00	21.45	0.149	0.104	0.086	0.083	3						
Merch Ht		22.41	DBH =	39.60	1.246	0.871	0.720	0.695									
10	1	1	Spruce	1	5.00	22.67	33.40	0.259	0.196	0.167	0.162	3	3	107.45			
				2	5.00	17.61	22.67	0.163	0.123	0.105	0.102	3					
				3	5.19	10.00	17.61	0.082	0.062	0.053	0.051	3					
				Merch Ht		15.49	DBH =	28.80	0.504	0.382	0.324	0.314					
1	2	Spruce	1	5.00	16.11	23.54	0.132	0.127	0.127	0.125	1	2	206.00				
			2	6.16	10.00	16.11	0.088	0.085	0.085	0.083	1						
Merch Ht		11.46	DBH =	20.80	0.220	0.212	0.212	0.208									



Compiled by : Silvicon Services Inc.

\*\*\* FOR APPRAISAL PURPOSES \*\*\*

LOG- 3

Cruised by : WARREN

Average Line Method

OWEN LAKE RANCH LTD.

Licence Number : WL1761

Cutting Permit : 001

Gross - Comp DWB

Forest Inventory Zone : J

Region : 2 - Prince Rupert

LOG REPORT

Calculations Use All Plots in Type

Useless Volumes Excluded

PSYU : Morice

District : 2 - Morice

Filename: wl1761.ccp

29-Nov-2001 01:52:29PM

Project : WL1761

Version : 2001.0

Utilization Levels: Minimum DBH Top Diameter Stump Height

Mature Blocks: (cm) 17.5 10.0 30

Immature Blocks: (cm) 12.0 10.0 30

Exception[PL]: (cm) 12.5 10.0 30

Standard Log Length: 5.00

Minimum Log Length: 2.5

Maximum Log Length: 7.5

Block	Strip	Plot	Type	Tree	Species	Log	Length	Volume						Grade	# of Logs	Stems Per/HA	
								DIB Top	DIB Bottom	Gross Merch	Less Decay	Less DW	Less DWB				
001	04	1	2	1	L.P.Pine	1	5.00	26.62	36.59	0.352	0.309	0.295	0.288	1			
						2	5.00	22.01	26.62	0.234	0.206	0.196	0.192	1			
						3	5.00	15.54	22.01	0.143	0.126	0.120	0.117	1			
						4	3.12	10.00	15.54	0.041	0.036	0.035	0.034	1			
			Merch Ht		18.42	DBH =	32.60	0.770	0.678	0.645	0.630		4	83.86			
			2		2	L.P.Pine	1	5.00	20.71	27.61	0.207	0.186	0.177	0.173	1		
				2			5.00	17.46	20.71	0.145	0.130	0.124	0.121	1			
				3			6.75	10.00	17.46	0.108	0.098	0.093	0.091	1			
				Merch Ht			17.05	DBH =	25.20	0.459	0.414	0.394	0.385		3	140.35	
			2	4			L.P.Pine	1	5.00	37.73	55.25	0.751	0.637	0.588	0.573	1	
					2	5.00		29.67	37.73	0.449	0.381	0.351	0.342	1			
					3	5.00		19.85	29.67	0.248	0.211	0.194	0.189	1			
					4	4.02		10.00	19.85	0.074	0.063	0.058	0.056	1			
			Merch Ht		19.32	DBH =	47.20	1.523	1.291	1.191	1.160		4	40.01			
			2		5	L.P.Pine	1	5.00	28.43	38.56	0.395	0.348	0.331	0.323	1		
				2			5.00	24.22	28.43	0.273	0.241	0.229	0.224	1			
				3			5.00	18.66	24.22	0.185	0.162	0.155	0.151	1			
				4			5.29	10.00	18.66	0.091	0.080	0.076	0.075	1			
			Merch Ht			20.59	DBH =	34.40	0.944	0.831	0.791	0.772		4	75.32		
			2	6		L.P.Pine	1	5.00	30.63	42.76	0.472	0.409	0.385	0.376	1		
					2		5.00	25.17	30.63	0.308	0.267	0.251	0.245	1			
					3		5.00	17.96	25.17	0.188	0.163	0.153	0.150	1			
					4		4.06	10.00	17.96	0.065	0.057	0.053	0.052	1			
			Merch Ht		19.36	DBH =	37.60	1.033	0.896	0.843	0.823		4	63.04			
			11		1	1	L.P.Pine	1	5.00	19.72	26.04	0.185	0.167	0.159	0.155	1	
				2				5.00	16.84	19.72	0.132	0.119	0.114	0.111	1		
				3				6.86	10.00	16.84	0.105	0.095	0.090	0.088	1		
				Merch Ht				17.16	DBH =	23.90	0.423	0.381	0.362	0.354		3	156.03
				1	2			L.P.Pine	1	5.00	18.83	24.60	0.167	0.151	0.143	0.140	1
		2				5.00	16.34		18.83	0.122	0.110	0.105	0.102	1			
		3				7.19	10.00		16.34	0.106	0.095	0.091	0.088	1			
		Merch Ht				17.49	DBH =		22.70	0.395	0.357	0.339	0.331		3	172.96	
		1		3		Spruce	1		5.00	27.32	39.94	0.363	0.348	0.345	0.338	1	
					2		5.00	24.21	27.32	0.262	0.251	0.249	0.244	1			
					3		5.00	20.10	24.21	0.195	0.187	0.186	0.182	1			
					4		5.00	14.63	20.10	0.121	0.116	0.115	0.113	1			
		Merch Ht			23.83	DBH =	33.30	0.983	0.943	0.936	0.916		5	80.37			
		1			5	Spruce	1	5.00	23.04	33.37	0.257	0.247	0.246	0.241	1		
				2			5.00	20.05	23.04	0.184	0.177	0.176	0.172	1			
				3			5.00	15.85	20.05	0.129	0.124	0.123	0.121	1			
				4			5.15	10.00	15.85	0.070	0.067	0.067	0.066	1			
		Merch Ht		20.45		DBH =	28.20	0.640	0.615	0.612	0.599		4	112.08			
		1		8		L.P.Pine	1	5.00	24.68	32.52	0.289	0.258	0.245	0.240	1		
					2		5.00	21.72	24.68	0.212	0.189	0.180	0.176	1			
					3		5.00	17.76	21.72	0.156	0.139	0.132	0.129	1			
					4		6.13	10.00	17.76	0.099	0.089	0.084	0.082	1			
		Merch Ht			21.43	DBH =	29.50	0.756	0.674	0.642	0.627		4	102.42			
		1			9	Spruce	1	5.00	17.49	24.96	0.147	0.142	0.142	0.139	1		
				2			5.00	14.97	17.49	0.105	0.101	0.101	0.099	1			
				3			6.28	10.00	14.97	0.080	0.077	0.077	0.076	1			
				Merch Ht			16.58	DBH =	21.40	0.332	0.320	0.320	0.313		3	194.62	
		1		10			Spruce	1	5.00	23.03	33.34	0.256	0.246	0.245	0.240	1	
					2	5.00		20.20	23.03	0.185	0.178	0.177	0.173	1			
					3	5.00		16.27	20.20	0.133	0.128	0.127	0.124	1			
					4	5.79		10.00	16.27	0.082	0.078	0.078	0.076	1			
		Merch Ht			21.09	DBH =	28.10	0.655	0.630	0.627	0.614		4	112.87			
		1			11	L.P.Pine	1	5.00	19.28	25.17	0.175	0.166	0.165	0.162	1		
				2			5.00	16.79	19.28	0.129	0.122	0.121	0.119	1			
				3			5.00	12.96	16.79	0.089	0.084	0.084	0.083	1			
				4			2.65	10.00	12.96	0.028	0.026	0.026	0.026	1			
		Merch Ht		17.95		DBH =	23.20	0.421	0.398	0.397	0.389		4	165.59			
		1		12		Spruce	1	5.00	29.79	43.80	0.432	0.414	0.411	0.403	1		
					2		5.00	26.70	29.79	0.314	0.301	0.299	0.293	1			
					3		5.00	22.78	26.70	0.243	0.233	0.231	0.226	1			
					4		5.00	17.61	22.78	0.163	0.156	0.155	0.152	1			
		Merch Ht			26.16	DBH =	36.20	1.243	1.192	1.183	1.158		5	68.01			
		1			14	Spruce	1	5.00	14.67	20.80	0.104	0.092	0.092	0.090	3		
				2			5.00	12.09	14.67	0.072	0.064	0.064	0.062	3			
				3			2.81	10.00	12.09	0.027	0.024	0.024	0.024	3			
				Merch Ht			13.11	DBH =	18.10	0.203	0.180	0.180	0.176		3	272.05	
		1		15		Spruce	1	5.00	15.35	21.76	0.113	0.099	0.096	0.093	1		
							2	5.00	13.18	15.35	0.081	0.071	0.069	0.067	1		
			3		4.81		10.00	13.18	0.052	0.046	0.044	0.043	4				
			Merch Ht		15.11		DBH =	18.70	0.245	0.216	0.208	0.203		3	254.89		



Compiled by : Silvicon Services Inc.  
 Cruised by : WARREN  
 Average Line Method  
 OWEN LAKE RANCH LTD.  
 Licence Number : WL1761  
 Cutting Permit : 001

\*\*\* FOR APPRAISAL PURPOSES \*\*\*

LOG REPORT

LOG- 4

Gross - Comp DWB  
 Forest Inventory Zone : J  
 Region : 2 - Prince Rupert

Calculations Use All Plots in Type

Useless Volumes Excluded  
 PSYU : Morice  
 District : 2 - Morice

Filename: wl1761.ccp  
 29-Nov-2001 01:52:29PM  
 Project : WL1761  
 Version : 2001.0

Utilization Levels: Minimum DBH Top Diameter Stump Height

Mature Blocks: (cm) 17.5 10.0 30  
 Immature Blocks:(cm) 12.0 10.0 30  
 Exception[PL]: (cm) 12.5 10.0 30

Standard Log Length: 5.00  
 Minimum Log Length : 2.5  
 Maximum Log Length : 7.5

Block	Strip	Plot	Type	Tree	Species	Log	Length	Volume						Grade	# of Logs	Stems Per/HA
								DIB Top	DIB Bottom	Gross Merch	Less Decay	Less DW	Less DWB			
001	04	12	1	1	Spruce	1	5.00	24.27	35.40	0.289	0.253	0.242	0.236	1	4	98.37
						2	5.00	20.41	24.27	0.198	0.174	0.166	0.162	1		
						3	5.00	14.92	20.41	0.126	0.110	0.105	0.103	1		
						4	3.53	10.00	14.92	0.044	0.039	0.037	0.036	1		
						Merch Ht	18.83	DBH =	30.10	0.657	0.576	0.550	0.537			
			1	3	Spruce	1	5.00	31.40	47.84	0.512	0.358	0.296	0.286	3		
						2	5.00	24.01	31.40	0.307	0.215	0.178	0.171	5		
						3	6.83	10.00	24.01	0.170	0.119	0.098	0.095	5		
						Merch Ht	17.13	DBH =	40.30	0.990	0.692	0.572	0.552		3	54.88
			1	4	Spruce	1	5.00	22.46	32.63	0.247	0.238	0.237	0.232	1		
						2	5.00	18.69	22.46	0.168	0.162	0.161	0.158	1		
						3	7.40	10.00	18.69	0.129	0.124	0.123	0.121	1		
						Merch Ht	17.70	DBH =	27.90	0.545	0.524	0.521	0.510		3	114.50
			1	7	Spruce	1	5.00	18.24	26.33	0.164	0.137	0.125	0.122	3		
						2	5.00	14.46	18.24	0.107	0.089	0.082	0.080	3		
						3	4.05	10.00	14.46	0.049	0.041	0.037	0.036	3		
						Merch Ht	14.35	DBH =	22.90	0.320	0.267	0.245	0.238		3	169.96
			1	9	Spruce	1	5.00	14.65	20.99	0.106	0.102	0.102	0.100	1		
						2	6.19	10.00	14.65	0.078	0.075	0.075	0.073	1		
						Merch Ht	11.49	DBH =	18.50	0.184	0.177	0.177	0.173		2	260.41
			1	11	Spruce	1	5.00	16.12	23.16	0.128	0.114	0.114	0.111	3		
						2	7.48	10.00	16.12	0.108	0.096	0.096	0.093	3		
						Merch Ht	12.78	DBH =	20.30	0.236	0.209	0.209	0.205		2	216.28
			1	13	Spruce	1	5.00	15.62	22.43	0.121	0.116	0.116	0.114	1		
						2	7.04	10.00	15.62	0.097	0.093	0.093	0.091	1		
						Merch Ht	12.34	DBH =	19.70	0.217	0.210	0.210	0.205		2	229.65
			1	14	Spruce	1	5.00	19.17	27.60	0.179	0.149	0.137	0.133	3		
						2	5.00	15.81	19.17	0.122	0.102	0.093	0.091	3		
						3	5.67	10.00	15.81	0.078	0.065	0.059	0.058	3		
						Merch Ht	15.97	DBH =	23.80	0.379	0.315	0.290	0.282		3	157.35
99	2	12	2	1	L.P.Pine	1	5.00	32.99	44.60	0.529	0.459	0.432	0.421	1	5	56.84
						2	5.00	28.65	32.99	0.373	0.324	0.305	0.297	1		
						3	5.00	23.45	28.65	0.270	0.234	0.220	0.215	1		
						4	5.00	16.20	23.45	0.159	0.138	0.130	0.127	1		
						5	3.32	10.00	16.20	0.046	0.040	0.038	0.037	1		
						Merch Ht	23.62	DBH =	39.60	1.378	1.195	1.124	1.097			
			2	2	L.P.Pine	1	5.00	30.50	41.94	0.461	0.405	0.386	0.377	1		
						2	5.00	25.63	30.50	0.311	0.274	0.260	0.254	1		
						3	5.00	19.32	25.63	0.203	0.179	0.170	0.166	1		
						4	5.17	10.00	19.32	0.093	0.082	0.078	0.076	1		
						Merch Ht	20.47	DBH =	37.10	1.068	0.940	0.895	0.873		4	64.75
			2	3	L.P.Pine	1	5.00	29.16	39.48	0.414	0.365	0.347	0.339	1		
						2	5.00	24.98	29.16	0.289	0.254	0.242	0.236	1		
						3	5.00	19.57	24.98	0.199	0.175	0.167	0.163	1		
						4	5.91	10.00	19.57	0.109	0.096	0.092	0.089	1		
						Merch Ht	21.21	DBH =	35.20	1.011	0.890	0.847	0.827		4	71.93
			2	5	L.P.Pine	1	5.00	31.28	43.19	0.486	0.422	0.397	0.387	1		
						2	5.00	26.20	31.28	0.326	0.282	0.266	0.259	1		
						3	5.00	19.66	26.20	0.211	0.183	0.172	0.168	1		
						4	5.21	10.00	19.66	0.096	0.084	0.079	0.077	1		
						Merch Ht	20.51	DBH =	38.10	1.120	0.971	0.914	0.892		4	61.40
			2	7	L.P.Pine	1	5.00	34.79	49.02	0.614	0.521	0.480	0.468	1		
						2	5.00	28.63	34.79	0.397	0.336	0.310	0.302	1		
						3	5.00	20.99	28.63	0.248	0.210	0.194	0.189	1		
						4	5.28	10.00	20.99	0.107	0.091	0.084	0.082	1		
						Merch Ht	20.58	DBH =	42.70	1.365	1.158	1.068	1.040		4	48.88

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage,



Compiled by : Silvicon Services Inc.  
 Cruised by : WARREN  
 Average Line Method  
 OWEN LAKE RANCH LTD.  
 Licence Number : WL1761  
 Cutting Permit : 001

\*\*\* FOR APPRAISAL PURPOSES \*\*\*  
 VOLUME AND LUMBER RECOVERY INFORMATION  
 Calculations Use All Plots in Type  
 Gross - Comp DWB  
 Forest Inventory Zone : J  
 Region : 2 - Prince Rupert  
 Useless Volumes Excluded  
 PSYU : Morice  
 District : 2 - Morice

LRF- 1

Filename: wl1761.ccp  
 29-Nov-2001 01:52:29PM  
 Project : WL1761  
 Version : 2001.0

Spruce

Log Top Dia (cm)	LRF	Gross Merch.	Risk Group #1 % Net Decay Merch.	F.B.M.	Gross Merch.	Risk Group #2 % Net Decay Merch.	F.B.M.	Gross Merch.	Risk Group #3 % Net Decay Merch.	F.B.M.
---------------------	-----	-----------------	--	--------	-----------------	--	--------	-----------------	--	--------

0.1 - 4.4	0												
4.5 - 5.4	91												
5.5 - 6.4	103												
6.5 - 7.4	113												
7.5 - 8.4	123												
8.5 - 9.9	134												
10.0 - 14.9	158	699	1.7	672	105307.2	152	12.3	125	18471.0	186	17.4	141	20289.7
15.0 - 19.9	185	687	2.3	656	120060.6	176	12.3	145	25152.5	156	17.7	115	19400.8
20.0 - 24.9	202	370	4.0	346	68547.2	152	12.5	124	23481.1	108	27.2	64	11141.8
25.0 - 29.9	217	189	3.9	177	37634.2	162	12.6	132	26737.0	40	32.2	21	3866.1
30.0 - 34.9	226	32	4.4	30	6648.8	65	12.8	53	11122.0	87	31.4	47	8987.2
35.0 - 39.9	234	21	1.0	20	4683.7					33	34.8	17	3225.4
40.0 - 44.9	240	32	1.0	31	7516.6								
45.0 - 49.9	246												
50.0 - 54.9	252												
55.0 - 59.9	258												
60.0 - 64.9	263												
65.0 - 69.9	266												
70.0 - 74.9	267												
75.0 - 79.9	265												
80.0 - 84.9	263												
85.0 - 89.9	261												
90.0 - 94.9	259												
95.0 - 99.9	257												
100.0+	254												

Total All Logs L.R.F.	2031	2.5	1933	350398.3	708	12.5	577	104963.6	609	23.1	405	66911.0
				182				182				166

Average L.R.F.	Group 1	182		Group 1+2	182		Group 2+3	176
Average L.R.F.	Groups 1+2+3	180						
Chip Recovery	Group 1	0.136 units/m3		Group 1+2	0.136 units/m3		Group 2+3	0.139 units/m3
% Decay	Group 1	2.6		Group 1+2	7.5		Group 2+3	17.8
% Stud Log Net Mer	Group 1	68.8		Group 1+2	63.7		Group 2+3	53.5
% Small Log Net Mer	Group 1	95.8		Group 1+2	94.7		Group 2+3	88.2
% Large Log Net Mer	Group 1	4.3		Group 1+2	5.4		Group 2+3	11.9

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage,



Compiled by : Silvicon Services Inc.  
 Cruised by : WARREN  
 Average Line Method  
 OWEN LAKE RANCH LTD.  
 Licence Number : WL1761  
 Cutting Permit : 001

\*\*\* FOR APPRAISAL PURPOSES \*\*\*  
 VOLUME AND LUMBER RECOVERY INFORMATION  
 Calculations Use All Plots in Type  
 Gross - Comp DWB  
 Forest Inventory Zone : J  
 Region : 2 - Prince Rupert  
 Useless Volumes Excluded  
 PSYU : Morice  
 District : 2 - Morice

LRF- 2

Filename: wl1761.ccp  
 29-Nov-2001 01:52:29PM  
 Project : WL1761  
 Version : 2001.0

L.P.Pine

Log Top Dia (cm)	LRF	Gross Merch.	Risk Group #1 % Decay	Net Merch.	F.B.M.	Gross Merch.	Risk Group #2 % Decay	Net Merch.	F.B.M.	Gross Merch.	Risk Group #3 % Decay	Net Merch.	F.B.M.
0.1 - 4.4	0												
4.5 - 5.4	91												
5.5 - 6.4	103												
6.5 - 7.4	113												
7.5 - 8.4	123												
8.5 - 9.9	134												
10.0 - 14.9	158					92	11.0	76	11324.7				
15.0 - 19.9	185	22	5.5	20	3064.7	211	10.8	174	30471.3				
20.0 - 24.9	202	56	5.5	52	9302.1	139	11.5	114	21755.0				
25.0 - 29.9	217					145	13.0	116	23584.0				
30.0 - 34.9	226					105	13.4	83	17513.7				
35.0 - 39.9	234					21	15.2	16	3467.1				
40.0 - 44.9	240												
45.0 - 49.9	246												
50.0 - 54.9	252												
55.0 - 59.9	258												
60.0 - 64.9	263												
65.0 - 69.9	266												
70.0 - 74.9	267												
75.0 - 79.9	265												
80.0 - 84.9	263												
85.0 - 89.9	261												
90.0 - 94.9	259												
95.0 - 99.9	257												
100.0+	254												
Total All Logs L.R.F.		78	5.5	72	12366.8 173	713	11.9	580	108115.8 187				0
Average L.R.F.		Group 1		173		Group 1+2		186		Group 2+3		187	
Average L.R.F.		Groups 1+2+3		186									
Chip Recovery		Group 1		0.164 units/m3		Group 1+2		0.150 units/m3		Group 2+3		0.148 units/m3	
% Decay		Group 1		5.5		Group 1+2		8.8		Group 2+3		12.0	
% Stud Log Net Mer		Group 1		100.1		Group 1+2		49.4		Group 2+3		43.2	
% Small Log Net Mer		Group 1		100.1		Group 1+2		84.8		Group 2+3		83.0	
% Large Log Net Mer		Group 1		0.0		Group 1+2		17.1		Group 2+3		17.1	

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage,



Compiled by : Silvicon Services Inc.  
 Cruised by : WARREN  
 Average Line Method  
 OWEN LAKE RANCH LTD.  
 Licence Number : WL1761  
 Cutting Permit : 001

\*\*\* FOR APPRAISAL PURPOSES \*\*\*  
 VOLUME AND LUMBER RECOVERY INFORMATION  
 Calculations Use All Plots in Type  
 Gross - Comp DWB  
 Forest Inventory Zone : J  
 Region : 2 - Prince Rupert  
 Useless Volumes Excluded  
 PSYU : Morice  
 District : 2 - Morice

LRF- 3

Filename: wl1761.ccp  
 29-Nov-2001 01:52:29PM  
 Project : WL1761  
 Version : 2001.0

ALL SPECIES:

Log Top Dia (cm)	LRF	Risk Group #1			F.B.M.	Risk Group #2			F.B.M.	Risk Group #3			F.B.M.
		Gross Merch.	% Decay	Net Merch.		Gross Merch.	% Decay	Net Merch.		Gross Merch.	% Decay	Net Merch.	
0.1 - 4.4	0												
4.5 - 5.4	0												
5.5 - 6.4	0												
6.5 - 7.4	0												
7.5 - 8.4	0												
8.5 - 9.9	0												
10.0 - 14.9	0	720	1.8	692	108371.9	244	11.8	200	29795.7	186	17.4	141	20289.7
15.0 - 19.9	0	743	2.5	708	129362.7	387	11.5	319	55623.7	156	17.7	115	19400.8
20.0 - 24.9	0	370	4.0	346	68547.2	292	12.0	238	45236.1	108	27.2	64	11141.8
25.0 - 29.9	0	189	3.9	177	37634.2	307	12.8	248	50321.0	40	32.2	21	3866.1
30.0 - 34.9	0	32	4.4	30	6648.8	170	13.2	136	28635.7	87	31.4	47	8987.2
35.0 - 39.9	0	21	1.0	20	4683.7	21	15.2	16	3467.1	33	34.8	17	3225.4
40.0 - 44.9	0	32	1.0	31	7516.6								
45.0 - 49.9	0												
50.0 - 54.9	0												
55.0 - 59.9	0												
60.0 - 64.9	0												
65.0 - 69.9	0												
70.0 - 74.9	0												
75.0 - 79.9	0												
80.0 - 84.9	0												
85.0 - 89.9	0												
90.0 - 94.9	0												
95.0 - 99.9	0												
100.0+	0												
Total All Logs L.R.F.		2109	2.6	2005	362765.1 181	1421	12.2	1157	213079.4 185	609	23.1	405	66911.0 166
Average L.R.F.		Group 1		181		Group 1+2		183		Group 2+3		180	
Average L.R.F.		Groups 1+2+3		181									
Chip Recovery		Group 1		0.137 units/m3		Group 1+2		0.139 units/m3		Group 2+3		0.143 units/m3	
% Decay		Group 1		2.7		Group 1+2		7.5		Group 2+3		17.7	
% Stud Log Net Mer		Group 1		69.9		Group 1+2		60.8		Group 2+3		49.7	
% Small Log Net Mer		Group 1		96.0		Group 1+2		92.7		Group 2+3		86.2	
% Large Log Net Mer		Group 1		4.1		Group 1+2		7.4		Group 2+3		13.9	

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage,



Compiled by : Silvicon Services Inc.  
 Cruised by : WARREN  
 Average Line Method  
 OWEN LAKE RANCH LTD.  
 Licence Number : WL1761  
 Cutting Permit : 001

\*\*\* FOR APPRAISAL PURPOSES \*\*\*  
 CUTTING PERMIT STAND TABLE (stems/ha)  
 Calculations Use All Plots in Type  
 Gross - Comp DWB  
 Forest Inventory Zone : J  
 Region : 2 - Prince Rupert  
 Useless Volumes Excluded  
 PSYU : Morice  
 District : 2 - Morice

CSTND- 1

Filename: wl1761.ccp  
 29-Nov-2001 01:52:29PM  
 Project : WL1761  
 Version : 2001.0

Treatment Units : [ A : 10.3 ]

Utilization Limits	S	PL	Total	DP	DU	LU
Min DBH cm (M)	17.5	12.5		17.5	17.5	17.5
Stump Ht cm (M)	30.0	30.0		30.0	30.0	30.0
Top Dia cm (M)	10.0	10.0		10.0	10.0	10.0
Log Len m	5.0	5.0		5.0	5.0	5.0

Class	S	PL	Total	DP	DU	LU
5						
10						
15						
20	414.7		414.7	52.7		
25	82.5	63.0	145.5	35.4		
30	81.1	11.1	92.2	23.5		
35	50.4	20.1	70.5			
40	17.5	12.3	29.8	12.1		
45		6.0	6.0			
50				4.2		
55	3.2		3.2			
60						
65						
70						
75						
80						
85						
90						
95						
100						
105						
110						
115						
120						
125						
130						
135						
140						
145						
150						
175						
200						
225						
250						
275						
Total	649.4	112.5	761.9			
Dead P	127.8			127.8		
Dead U						
Live U						

Average DBH(cm) at 5 Levels

12.5 +	24.0	29.7	25.0	26.0
17.5 +	24.0	29.7	25.0	26.0
22.5 +	30.0	29.7	29.9	30.0
27.5 +	32.8	36.0	33.6	34.8
32.5 +	36.8	37.6	37.1	42.2

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage,



Compiled by : Silvicon Services Inc.

\*\*\* FOR APPRAISAL PURPOSES \*\*\*

CSTCK- 1

Cruised by : WARREN

CUTTING PERMIT STOCK TABLE (m3/ha)

Average Line Method

Calculations Use All Plots in Type

OWEN LAKE RANCH LTD.

Gross - Comp DWB

Useless Volumes Excluded

Filename: wl1761.ccp

Licence Number : WL1761

Forest Inventory Zone : J

PSYU : Morice

29-Nov-2001 01:52:29PM

Cutting Permit : 001

Region : 2 - Prince Rupert

District : 2 - Morice

Project : WL1761

Version : 2001.0

Treatment Units : [ A : 10.3 ]

Utilization Limits	S	PL	Total	DP	DU	LU
Min DBH cm (M)	17.5	12.5		17.5	17.5	17.5
Stump Ht cm (M)	30.0	30.0		30.0	30.0	30.0
Top Dia cm (M)	10.0	10.0		10.0	10.0	10.0
Log Len m	5.0	5.0		5.0	5.0	5.0

DBH

Class

5						
10						
15						
20	91.5		91.5	10.0		
25	28.9	22.8	51.7	9.2		
30	49.1	6.9	56.0	8.1		
35	45.5	15.4	60.9			
40	21.9	11.5	33.4	7.5		
45		6.6	6.6			
50				4.5		
55	6.8		6.8			
60						
65						
70						
75						
80						
85						
90						
95						
100						
105						
110						
115						
120						
125						
130						
135						
140						
145						
150						
175						
200						
225						
250						
275						

Total

Dead P

Total	243.8	63.2	307.0			
Dead P	39.3			39.3		
				Total Volumes for 7 Levels		

17.5 +						
22.5 +						
27.5 +	243.8	63.2	307.0	39.3		
32.5 +	152.3	63.2	215.5	29.3		
37.5 +	123.4	40.5	163.8	20.2		
42.5 +						
47.5 +						

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage,



Compiled by : Silvicon Services Inc.

\*\*\* FOR APPRAISAL PURPOSES \*\*\*

CBASL- 1

Cruised by : WARREN

CUTTING PERMIT BASAL AREA TABLE (m2/ha)

Average Line Method

Calculations Use All Plots in Type

OWEN LAKE RANCH LTD.

Gross - Comp DWB

Useless Volumes Excluded

Filename: wl1761.ccp

Licence Number : WL1761

Forest Inventory Zone : J

PSYU : Morice

29-Nov-2001 01:52:29PM

Cutting Permit : 001

Region : 2 - Prince Rupert

District : 2 - Morice

Project : WL1761

Version : 2001.0

Treatment Units : [ A : 10.3 ]

Utilization Limits	S	PL	Total	DP	DU	LU
Min DBH cm (M)	17.5	12.5		17.5	17.5	17.5
Stump Ht cm (M)	30.0	30.0		30.0	30.0	30.0
Top Dia cm (M)	10.0	10.0		10.0	10.0	10.0
Log Len m	5.0	5.0		5.0	5.0	5.0

DBH

Class

5						
10						
15						
20	12.9		12.9	1.5		
25	3.8	2.7	6.5	1.5		
30	5.3	0.8	6.0	1.5		
35	4.5	1.9	6.4			
40	2.3	1.4	3.7	1.5		
45		1.0	1.0			
50				0.8		
55	0.8		0.8			
60						
65						
70						
75						
80						
85						
90						
95						
100						
105						
110						
115						
120						
125						
130						
135						
140						
145						
150						
175						
200						
225						
250						
275						

Total	29.5	7.8	37.3			
Dead P	6.8			6.8		

Dead U

Live U

Average Basal Area (m2) at 5 Levels

12.5 +	29.5	7.8	37.3	6.8
17.5 +	29.5	7.8	37.3	6.8
22.5 +	16.6	7.8	24.4	5.3
27.5 +	12.9	5.0	17.9	3.8
32.5 +	7.6	4.3	11.8	2.3

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage,



Compiled by : Silvicon Services Inc.  
 Cruised by : WARREN  
 Average Line Method  
 OWEN LAKE RANCH LTD.  
 Licence Number : WL1761  
 Cutting Permit : 001

\*\*\* FOR APPRAISAL PURPOSES \*\*\*  
 BLOCK STAND TABLE (stems/ha)  
 Calculations Use All Plots in Type  
 Gross - Comp DWB  
 Forest Inventory Zone : J  
 Region : 2 - Prince Rupert  
 Useless Volumes Excluded  
 PSYU : Morice  
 District : 2 - Morice

BSTND- 1

Filename: wl1761.ccp  
 29-Nov-2001 01:52:29PM  
 Project : WL1761  
 Version : 2001.0

Block : (M) - 001:Block 1, Plots in Block: 10, TUs: [ A : 10.3 ]

	S	PL	Total	DP	DU	LU
Utilization Limits						
Min DBH cm (M)	17.5	12.5		17.5	17.5	17.5
Stump Ht cm (M)	30.0	30.0		30.0	30.0	30.0
Top Dia cm (M)	10.0	10.0		10.0	10.0	10.0
Log Len m	5.0	5.0		5.0	5.0	5.0

Class	S	PL	Total	DP	DU	LU
5						
10						
15						
20	414.7		414.7	52.7		
25	82.5	63.0	145.5	35.4		
30	81.1	11.1	92.2	23.5		
35	50.4	20.1	70.5			
40	17.5	12.3	29.8	12.1		
45		6.0	6.0			
50				4.2		
55	3.2		3.2			
60						
65						
70						
75						
80						
85						
90						
95						
100						
105						
110						
115						
120						
125						
130						
135						
140						
145						
150						
175						
200						
225						
250						
275						
Total	649.4	112.5	761.9			
Dead P	127.8			127.8		
Dead U						
Live U						

Average DBH(cm) at 5 Levels

	S	PL	Total	DP	DU	LU
12.5 +	24.0	29.7	25.0	26.0		
17.5 +	24.0	29.7	25.0	26.0		
22.5 +	30.0	29.7	29.9	30.0		
27.5 +	32.8	36.0	33.6	34.8		
32.5 +	36.8	37.6	37.1	42.2		

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage,



Compiled by : Silvicon Services Inc.  
 Cruised by : WARREN  
 Average Line Method  
 OWEN LAKE RANCH LTD.  
 Licence Number : WL1761  
 Cutting Permit : 001

\*\*\* FOR APPRAISAL PURPOSES \*\*\*  
 BLOCK STOCK TABLE (m3/ha)  
 Calculations Use All Plots in Type  
 Gross - Comp DWB  
 Forest Inventory Zone : J  
 Region : 2 - Prince Rupert  
 Useless Volumes Excluded  
 PSYU : Morice  
 District : 2 - Morice

BSTCK- 1

Filename: wl1761.ccp  
 29-Nov-2001 01:52:29PM  
 Project : WL1761  
 Version : 2001.0

Block : (M) - 001:Block 1, Plots in Block: 10, TUs: [ A : 10.3 ]

	S	PL	Total	DP	DU	LU
Utilization Limits						
Min DBH cm (M)	17.5	12.5		17.5	17.5	17.5
Stump Ht cm (M)	30.0	30.0		30.0	30.0	30.0
Top Dia cm (M)	10.0	10.0		10.0	10.0	10.0
Log Len m	5.0	5.0		5.0	5.0	5.0

Class	S	PL	Total	DP	DU	LU
5						
10						
15						
20	91.5		91.5	10.0		
25	28.9	22.8	51.7	9.2		
30	49.1	6.9	56.0	8.1		
35	45.5	15.4	60.9			
40	21.9	11.5	33.4	7.5		
45		6.6	6.6			
50				4.5		
55	6.8		6.8			
60						
65						
70						
75						
80						
85						
90						
95						
100						
105						
110						
115						
120						
125						
130						
135						
140						
145						
150						
175						
200						
225						
250						
275						
Total	243.8	63.2	307.0	39.3		
Dead P	39.3					
			Total Volumes for 7 Levels			
17.5 +						
22.5 +						
27.5 +	243.8	63.2	307.0	39.3		
32.5 +	152.3	63.2	215.5	29.3		
37.5 +	123.4	40.5	163.8	20.2		
42.5 +						
47.5 +						

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage,



Compiled by : Silvicon Services Inc.  
 Cruised by : WARREN  
 Average Line Method  
 OWEN LAKE RANCH LTD.  
 Licence Number : WL1761  
 Cutting Permit : 001

\*\*\* FOR APPRAISAL PURPOSES \*\*\*  
 BLOCK BASAL AREA TABLE (m2/ha)  
 Calculations Use All Plots in Type  
 Gross - Comp DWB  
 Forest Inventory Zone : J  
 Region : 2 - Prince Rupert  
 Useless Volumes Excluded  
 PSYU : Morice  
 District : 2 - Morice

BBASL- 1

Filename: wl1761.ccp  
 29-Nov-2001 01:52:29PM  
 Project : WL1761  
 Version : 2001.0

Block : (M) - 001:Block 1, Plots in Block: 10, TUs: [ A : 10.3 ]

	S	PL	Total	DP	DU	LU
Utilization Limits						
Min DBH cm (M)	17.5	12.5		17.5	17.5	17.5
Stump Ht cm (M)	30.0	30.0		30.0	30.0	30.0
Top Dia cm (M)	10.0	10.0		10.0	10.0	10.0
Log Len m	5.0	5.0		5.0	5.0	5.0
DBH						
Class						
5						
10						
15						
20	12.9		12.9	1.5		
25	3.8	2.7	6.5	1.5		
30	5.3	0.8	6.0	1.5		
35	4.5	1.9	6.4			
40	2.3	1.4	3.7	1.5		
45		1.0	1.0			
50				0.8		
55	0.8		0.8			
60						
65						
70						
75						
80						
85						
90						
95						
100						
105						
110						
115						
120						
125						
130						
135						
140						
145						
150						
175						
200						
225						
250						
275						
Total	29.5	7.8	37.3			
Dead P	6.8			6.8		
Dead U						
Live U						
Average Basal Area (m2) at 5 Levels						
12.5 +	29.5	7.8	37.3	6.8		
17.5 +	29.5	7.8	37.3	6.8		
22.5 +	16.6	7.8	24.4	5.3		
27.5 +	12.9	5.0	17.9	3.8		
32.5 +	7.6	4.3	11.8	2.3		

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage,



Compiled by : Silvicon Services Inc.

\*\*\* FOR APPRAISAL PURPOSES \*\*\*

TSTND- 1

Cruised by : WARREN

TYPE STAND TABLE (stems/ha)

Average Line Method

Calculations Use All Plots in Type

OWEN LAKE RANCH LTD.

Gross - Comp DWB

Useless Volumes Excluded

Licence Number : WL1761

Forest Inventory Zone : J

PSYU : Morice

Cutting Permit : 001

Region : 2 - Prince Rupert

District : 2 - Morice

Filename: wl1761.ccp

29-Nov-2001 01:52:29PM

Project : WL1761

Version : 2001.0

Type 1 (M):1 S(Pl), Plots in Type: 8, TUs: [ A : 8.9 ]

Utilization Limits	S	PL	Total	DP	DU	LU
Min DBH cm (M)	17.5	12.5		17.5	17.5	17.5
Stump Ht cm (M)	30.0	30.0		30.0	30.0	30.0
Top Dia cm (M)	10.0	10.0		10.0	10.0	10.0
Log Len m	5.0	5.0		5.0	5.0	5.0

DBH

Class

5						
10						
15						
20	479.9		479.9	61.0		
25	95.5	61.8	157.3	40.9		
30	93.9	12.8	106.7	27.1		
35	58.3		58.3			
40	20.3		20.3	14.0		
45						
50				4.8		
55	3.7		3.7			
60						
65						
70						
75						
80						
85						
90						
95						
100						
105						
110						
115						
120						
125						
130						
135						
140						
145						
150						
175						
200						
225						
250						
275						
Total	751.5	74.6	826.1			
Dead P	147.9			147.9		
Dead U						
Live U						

Average DBH(cm) at 5 Levels

12.5 +	24.0	24.4	24.1	26.0
17.5 +	24.0	24.4	24.1	26.0
22.5 +	30.0	24.4	28.9	30.0
27.5 +	32.8	29.5	32.6	34.8
32.5 +	36.8		36.8	42.2

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage,



Compiled by : Silvicon Services Inc.  
 Cruised by : WARREN  
 Average Line Method  
 OWEN LAKE RANCH LTD.  
 Licence Number : WL1761  
 Cutting Permit : 001

Gross - Comp DWB  
 Forest Inventory Zone : J  
 Region : 2 - Prince Rupert

\*\*\* FOR APPRAISAL PURPOSES \*\*\*  
 TYPE STAND TABLE (stems/ha)  
 Calculations Use All Plots in Type  
 Useless Volumes Excluded  
 PSYU : Morice  
 District : 2 - Morice

TSTND- 2

Filename: wl1761.ccp  
 29-Nov-2001 01:52:29PM  
 Project : WL1761  
 Version : 2001.0

Type 2 (M):2 Pl, Plots in Type: 2, TUs: { A : 1.4 }

Utilization Limits	S	PL	Total	DP	DU	LU
Min DBH cm (M)	17.5	12.5		17.5	17.5	17.5
Stump Ht cm (M)	30.0	30.0		30.0	30.0	30.0
Top Dia cm (M)	10.0	10.0		10.0	10.0	10.0
Log Len m	5.0	5.0		5.0	5.0	5.0

DBH  
 Class

5						
10						
15						
20						
25						
30						
35						
40						
45						
50						
55						
60						
65						
70						
75						
80						
85						
90						
95						
100						
105						
110						
115						
120						
125						
130						
135						
140						
145						
150						
175						
200						
225						
250						
275						

Total			353.2	353.2		
Dead P						
Dead U						
Live U						

Average DBH(cm) at 5 Levels

12.5 +	35.5	35.5
17.5 +	35.5	35.5
22.5 +	35.5	35.5
27.5 +	37.6	37.6
32.5 +	37.6	37.6

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage,



Compiled by : Silvicon Services Inc.  
 Cruised by : WARREN  
 Average Line Method  
 OWEN LAKE RANCH LTD.  
 Licence Number : WL1761  
 Cutting Permit : 001

\*\*\* FOR APPRAISAL PURPOSES \*\*\*  
 TYPE STOCK TABLE (m3/ha)  
 Calculations Use All Plots in Type  
 Gross - Comp DWB  
 Forest Inventory Zone : J  
 Region : 2 - Prince Rupert  
 Useless Volumes Excluded  
 PSYU : Morice  
 District : 2 - Morice

TSTCK- 1

Filename: wl1761.ccp  
 29-Nov-2001 01:52:29PM  
 Project : WL1761  
 Version : 2001.0

Type 1 (M):1 S(Pl), Plots in Type: 8, TUs: [ A : 8.9 ]

	S	PL	Total	DP	DU	LU
Utilization Limits						
Min DBH cm (M)	17.5	12.5		17.5	17.5	17.5
Stump Ht cm (M)	30.0	30.0		30.0	30.0	30.0
Top Dia cm (M)	10.0	10.0		10.0	10.0	10.0
Log Len m	5.0	5.0		5.0	5.0	5.0
DBH						
Class						
5						
10						
15						
20	105.9		105.9	11.5		
25	33.4	22.1	55.5	10.6		
30	56.8	8.0	64.8	9.4		
35	52.7		52.7			
40	25.4		25.4	8.7		
45						
50				5.2		
55	7.9		7.9			
60						
65						
70						
75						
80						
85						
90						
95						
100						
105						
110						
115						
120						
125						
130						
135						
140						
145						
150						
175						
200						
225						
250						
275						
Total	282.1	30.1	312.3	45.5		
Dead P	45.5					
			Total Volumes for 7 Levels			
17.5 +						
22.5 +						
27.5 +	282.1	30.1	312.3	45.5		
32.5 +	176.2	30.1	206.4	33.9		
37.5 +	142.8	8.0	150.8	23.3		
42.5 +						
47.5 +						

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage,



Compiled by : Silvicon Services Inc.  
 Cruised by : WARREN  
 Average Line Method  
 OWEN LAKE RANCH LTD.  
 Licence Number : WL1761  
 Cutting Permit : 001

Gross - Comp DWB  
 Forest Inventory Zone : J  
 Region : 2 - Prince Rupert

\*\*\* FOR APPRAISAL PURPOSES \*\*\*  
 TYPE STOCK TABLE (m3/ha)  
 Calculations Use All Plots in Type  
 Useless Volumes Excluded  
 PSYU : Morice  
 District : 2 - Morice

TSTCK- 2

Filename: wl1761.ccp  
 29-Nov-2001 01:52:29PM  
 Project : WL1761  
 Version : 2001.0

Type 2 (M):2 Pl, Plots in Type: 2, TUs: [ A : 1.4 ]

	S	PL	Total	DP	DU	LU
Utilization Limits						
Min DBH cm (M)	17.5	12.5		17.5	17.5	17.5
Stump Ht cm (M)	30.0	30.0		30.0	30.0	30.0
Top Dia cm (M)	10.0	10.0		10.0	10.0	10.0
Log Len m	5.0	5.0		5.0	5.0	5.0

DBH  
 Class

5						
10						
15						
20						
25						
30						
35						
40						
45						
50						
55						
60						
65						
70						
75						
80						
85						
90						
95						
100						
105						
110						
115						
120						
125						
130						
135						
140						
145						
150						
175						
200						
225						
250						
275						

27.0	27.0				
113.5	113.5				
84.5	84.5				
48.6	48.6				

Total	273.6	273.6			
Dead P					

Total Volumes for 7 Levels

17.5 +					
22.5 +					
27.5 +	273.6	273.6			
32.5 +	273.6	273.6			
37.5 +	246.6	246.6			
42.5 +					
47.5 +					

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage,



Compiled by : Silvicon Services Inc.  
 Cruised by : WARREN  
 Average Line Method  
 OWEN LAKE RANCH LTD.  
 Licence Number : WL1761  
 Cutting Permit : 001

\*\*\* FOR APPRAISAL PURPOSES \*\*\*  
 TYPE BASAL AREA TABLE (m2/ha)  
 Calculations Use All Plots in Type  
 Gross - Comp DWB  
 Forest Inventory Zone : J  
 Region : 2 - Prince Rupert  
 Useless Volumes Excluded  
 PSYU : Morice  
 District : 2 - Morice

TBASL- 1

Filename: wl1761.ccp  
 29-Nov-2001 01:52:29PM  
 Project : WL1761  
 Version : 2001.0

Type 1 (M):1 S(Pl), Plots in Type: 8, TUs: [ A : 8.9 ]

	S	PL	Total	DP	DU	LU
Utilization Limits						
Min DBH cm (M)	17.5	12.5		17.5	17.5	17.5
Stump Ht cm (M)	30.0	30.0		30.0	30.0	30.0
Top Dia cm (M)	10.0	10.0		10.0	10.0	10.0
Log Len m	5.0	5.0		5.0	5.0	5.0
DBH						
Class						
5						
10						
15						
20	14.9		14.9	1.7		
25	4.4	2.6	7.0	1.7		
30	6.1	0.9	7.0	1.7		
35	5.2		5.2			
40	2.6		2.6	1.7		
45						
50				0.9		
55	0.9		0.9			
60						
65						
70						
75						
80						
85						
90						
95						
100						
105						
110						
115						
120						
125						
130						
135						
140						
145						
150						
175						
200						
225						
250						
275						
Total	34.1	3.5	37.6			
Dead P	7.9			7.9		
Dead U						
Live U						
Average Basal Area (m2) at 5 Levels						
12.5 +	34.1	3.5	37.6	7.9		
17.5 +	34.1	3.5	37.6	7.9		
22.5 +	19.2	3.5	22.7	6.1		
27.5 +	14.9	0.9	15.7	4.4		
32.5 +	8.7		8.7	2.6		

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage,



Compiled by : Silvicon Services Inc.  
 Cruised by : WARREN  
 Average Line Method  
 OWEN LAKE RANCH LTD.  
 Licence Number : WL1761  
 Cutting Permit : 001

\*\*\* FOR APPRAISAL PURPOSES \*\*\*  
 TYPE BASAL AREA TABLE (m2/ha)  
 Calculations Use All Plots in Type  
 Gross - Comp DWB  
 Forest Inventory Zone : J  
 Region : 2 - Prince Rupert  
 Useless Volumes Excluded  
 PSYU : Morice  
 District : 2 - Morice

TBASL- 2

Filename: wl1761.ccp  
 29-Nov-2001 01:52:29PM  
 Project : WL1761  
 Version : 2001.0

Type 2 (M):2 Pl, Plots in Type: 2, TUs: [ A : 1.4 ]

	S	PL	Total	DP	DU	LU
Utilization Limits						
Min DBH cm (M)	17.5	12.5		17.5	17.5	17.5
Stump Ht cm (M)	30.0	30.0		30.0	30.0	30.0
Top Dia cm (M)	10.0	10.0		10.0	10.0	10.0
Log Len m	5.0	5.0		5.0	5.0	5.0

Class

5						
10						
15						
20						
25		3.5	3.5			
30						
35		14.0	14.0			
40		10.5	10.5			
45		7.0	7.0			
50						
55						
60						
65						
70						
75						
80						
85						
90						
95						
100						
105						
110						
115						
120						
125						
130						
135						
140						
145						
150						
175						
200						
225						
250						
275						

Total	35.0	35.0				
Dead P						
Dead U						
Live U						

Average Basal Area (m2) at 5 Levels

12.5 +	35.0	35.0
17.5 +	35.0	35.0
22.5 +	35.0	35.0
27.5 +	31.5	31.5
32.5 +	31.5	31.5

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage,



Compiled by : Silvicon Services Inc.  
 Cruised by : WARREN  
 Average Line Method  
 OWEN LAKE RANCH LTD.  
 Licence Number : WL1761  
 Cutting Permit : 001

\*\*\* FOR APPRAISAL PURPOSES \*\*\*  
 EXTENDED TYPE STAND & STOCK TABLE  
 Calculations Use All Plots in Type  
 Gross - Comp DWB  
 Forest Inventory Zone : J  
 Region : 2 - Prince Rupert  
 Useless Volumes Excluded  
 PSYU : Morice  
 District : 2 - Morice

XTS&S- 1

Filename: wl1761.ccp  
 29-Nov-2001 01:52:29PM  
 Project : WL1761  
 Version : 2001.0

Type : 1 (M) 1 S(Pl) [ Species:Spruce ][ A : 8.9 ]

DBH (cm)	AVERAGE			LIVING TREES							
	Height (m)	Gross Volume Per Tree (m3)	Net Volume Per Tree (m3)	Risk Group 1 (stems/ha)	Risk Group 2 (stems/ha)	Risk Group 3 (stems/ha)	Dead Potential (stems/ha)	Total (stems/ha)	Live Veterans (stems/ha)	Dead Useless (stems/ha)	Live Useless (stems/ha)
5											
10											
15											
20	20.1	0.231	0.217	423.02	56.88		61.04	540.95			
25	21.5	0.368	0.323	75.85	19.67		40.91	136.43			
30	25.7	0.644	0.547	70.00	23.89		27.15	121.04			
35	29.3	1.011	0.903	38.42	19.89			58.30			
40	27.9	1.335	0.997	6.60	13.66		13.96	34.22			
45											
50	31.9	2.128	1.083				4.84	4.84			
55	26.0	2.235	2.168	3.66				3.66			
60											
65											
70											
75											
80											
85											
90											
95											
100											
105											
110											
115											
120											
125											
130											
135											
140											
145											
150											
175											
200											
225											
250											
275											
Total of Averages				617.54	133.98		147.90	899.43			
Percent by Tree Class				68.66	14.90		16.44	100.00			
Average DBH(cm) at 5 Levels											
Trees 12.5 +				23.26	27.36		26.04	24.38			
Trees 17.5 +				23.26	27.36		26.04	24.38			
Trees 22.5 +				29.31	31.80		29.96	30.02			
Trees 27.5 +				32.14	34.12		34.82	33.22			
Trees 32.5 +				37.06	36.45		42.16	37.87			

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage,



Compiled by : Silvicon Services Inc.  
 Cruised by : WARREN  
 Average Line Method  
 OWEN LAKE RANCH LTD.  
 Licence Number : WL1761  
 Cutting Permit : 001

\*\*\* FOR APPRAISAL PURPOSES \*\*\*  
 EXTENDED TYPE STAND & STOCK TABLE  
 Calculations Use All Plots in Type  
 Gross - Comp DWB  
 Forest Inventory Zone : J  
 Region : 2 - Prince Rupert  
 Useless Volumes Excluded  
 PSYU : Morice  
 District : 2 - Morice

XTS&S- 2

Filename: wl1761.ccp  
 29-Nov-2001 01:52:29PM  
 Project : WL1761  
 Version : 2001.0

Type : 1 (M) 1 S(Pl) [ Species:L.P.Pine ][ A : 8.9 ]

DBH (cm)	AVERAGE				LIVING TREES								Live Veterans (stems/ha)	Dead Useless (stems/ha)	Live Useless (stems/ha)
	Height (m)	Gross Volume Per Tree (m3)	Net Volume Per Tree (m3)		Risk Group 1 (stems/ha)	Risk Group 2 (stems/ha)	Risk Group 3 (stems/ha)	Dead Potential (stems/ha)	Total (stems/ha)						
5															
10															
15															
20															
25	22.9	0.413	0.358		20.70	41.12				61.82					
30	26.1	0.756	0.627			12.80				12.80					
35															
40															
45															
50															
55															
60															
65															
70															
75															
80															
85															
90															
95															
100															
105															
110															
115															
120															
125															
130															
135															
140															
145															
150															
175															
200															
225															
250															
275															
Total of Averages					20.70	53.93				74.63					
Percent by Tree Class					27.74	72.26				100.00					
Average DBH(cm) at 5 Levels															
Trees 12.5 +					23.20	24.90				24.44					
Trees 17.5 +					23.20	24.90				24.44					
Trees 22.5 +					23.20	24.90				24.44					
Trees 27.5 +						29.50				29.50					
Trees 32.5 +															

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage,



Compiled by : Silvicon Services Inc.  
 Cruised by : WARREN  
 Average Line Method  
 OWEN LAKE RANCH LTD.  
 Licence Number : WL1761  
 Cutting Permit : 001

\*\*\* FOR APPRAISAL PURPOSES \*\*\*  
 EXTENDED TYPE STAND & STOCK TABLE  
 Calculations Use All Plots in Type  
 Gross - Comp DWB  
 Forest Inventory Zone : J  
 Region : 2 - Prince Rupert  
 Useless Volumes Excluded  
 PSYU : Morice  
 District : 2 - Morice

XTS&S- 3

Filename: wl1761.ccp  
 29-Nov-2001 01:52:29PM  
 Project : WL1761  
 Version : 2001.0

Type : 2 (M) 2 Pl [ Species:L.P.Pine ][ A : 1.4 ]

DBH (cm)	AVERAGE				LIVING TREES							
	Height (m)	Gross Volume Per Tree (m3)	Net Volume Per Tree (m3)		Risk Group 1 (stems/ha)	Risk Group 2 (stems/ha)	Risk Group 3 (stems/ha)	Dead Potential (stems/ha)	Total (stems/ha)	Live Veterans (stems/ha)	Dead Useless (stems/ha)	Live Useless (stems/ha)
5												
10												
15												
20												
25	21.9	0.459	0.385			70.17			70.17			
30												
35	24.2	0.938	0.767			147.93			147.93			
40	25.0	1.171	0.932			90.64			90.64			
45	23.7	1.436	1.094			44.44			44.44			
50												
55												
60												
65												
70												
75												
80												
85												
90												
95												
100												
105												
110												
115												
120												
125												
130												
135												
140												
145												
150												
175												
200												
225												
250												
275												
Total of Averages					353.19			353.19				
Percent by Tree Class					100.00			100.00				
Average DBH(cm) at 5 Levels												
Trees 12.5 +					35.52			35.52				
Trees 17.5 +					35.52			35.52				
Trees 22.5 +					35.52			35.52				
Trees 27.5 +					37.64			37.64				
Trees 32.5 +					37.64			37.64				

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage,



Compiled by : Silvicon Services Inc.  
 Cruised by : WARREN  
 Average Line Method  
 OWEN LAKE RANCH LTD.  
 Licence Number : WL1761  
 Cutting Permit : 001

\*\*\* FOR APPRAISAL PURPOSES \*\*\*

PLOT SUMMARY

Gross - Comp DWB  
 Forest Inventory Zone : J  
 Region : 2 - Prince Rupert

Calculations Use All Plots in Type  
 Useless Volumes Excluded  
 PSYU : Morice  
 District : 2 - Morice

PLSUM- 1

Filename: wl1761.ccp  
 29-Nov-2001 01:52:29PM  
 Project : WL1761  
 Version : 2001.0

Utilization Levels:

	Minimum DBH	Top Diameter	Stump Height
Mature Blocks: (cm)	17.5	10.0	30
Immature Blocks:(cm)	12.0	10.0	30
Exception[PL]: (cm)	12.5	10.0	30
Standard Log Length:	5.00		

Forest Type	Block	Strip	Plot #	Size	Slope %	Species	# of Stems	Stems / Ha	Avg. Diam.	Gross Merch	Less Decay	Less DB	Less DWB	Cruise Date	Loss Ref No.
1 S(Pl)	Block 001	02	04	7.000F	6	Spruce	5	1229.30	19.04	241.91	241.91	237.07	237.07	9910	503 0
						All Sp.	5	1229.30	19.04	241.91	241.91	237.07	237.07		
		02	05	7.000F	14	Spruce	5	1029.38	20.81	256.11	256.11	250.98	250.98	9910	503 0
						All Sp.	5	1029.38	20.81	256.11	256.11	250.98	250.98		
		02	06	7.000F	25	Spruce	3	380.74	26.51	174.96	173.20	169.70	169.70	9910	504 0
						All Sp.	3	380.74	26.51	174.96	173.20	169.70	169.70		
		03	08	7.000F	17	Spruce	7	821.45	27.56	474.56	435.97	426.48	414.24	9910	0 599
						All Sp.	7	821.45	27.56	474.56	435.97	426.48	414.24		
		03	09	7.000F	17	Spruce	11	1024.80	30.94	827.09	713.45	696.91	659.52	9910	0 599
						Down	3	151.22	42.05	240.35	179.22	174.41	151.70		0 599
						Grn-Live	4	432.44	28.72	302.03	278.38	272.33	266.24		0 599
						All Sp.	11	1024.80	30.94	827.09	713.45	696.91	659.52		
		03	10	7.000F	4	Spruce	2	313.46	23.85	99.43	84.74	82.75	76.53	9910	0 599
						Grn-Live	1	206.01	20.80	45.31	43.72	42.81	42.76		0 599
						Gry-Dead	1	107.45	28.80	54.12	41.02	39.93	33.76		0 599
						All Sp.	2	313.46	23.85	99.43	84.74	82.75	76.53		
		04	11	7.000F	5	L.P.Pine	4	597.00	24.44	281.48	256.11	250.48	241.03	9910	0 811
						Spruce	7	1094.88	23.88	491.53	463.19	453.36	449.62		0 599
						All Sp.	11	1691.88	24.08	773.00	719.30	703.84	690.66		
		04	12	7.000F	12	Spruce	8	1301.40	23.41	444.19	389.09	380.20	363.00	9910	0 599
						Gry-Dead	3	543.58	22.18	165.09	140.21	136.90	129.14		0 599
						All Sp.	8	1301.40	23.41	444.19	389.09	380.20	363.00		
2 Pl	Block 001	04	01	7.000F	9	L.P.Pine	5	402.58	33.28	326.25	285.72	279.19	263.24	9910	0 811
						All Sp.	5	402.58	33.28	326.25	285.72	279.19	263.24		
		04	99	7.000F	13	L.P.Pine	5	303.80	38.30	355.71	308.98	301.86	283.99	9910	0 811
						All Sp.	5	303.80	38.30	355.71	308.98	301.86	283.99		

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage,



Compiled by : Silvicon Services Inc.

\*\*\* FOR APPRAISAL PURPOSES \*\*\*

PLVOL- 1

Cruised by : WARREN

VOLUMES BY PLOT

Average Line Method

Calculations Use All Plots in Type

OWEN LAKE RANCH LTD.

Gross - Comp DWB

Useless Volumes Excluded

Filename: wl1761.ccp

Licence Number : WL1761

Forest Inventory Zone : J

PSYU : Morice

29-Nov-2001 01:52:29PM

Cutting Permit : 001

Region : 2 - Prince Rupert

District : 2 - Morice

Project : WL1761

Version : 2001.0

Utilization Limits		S	PL	Total
Min DBH	cm (M)	17.5	12.5	
Stump Ht	cm (M)	30.0	30.0	
Top Dia	cm (M)	10.0	10.0	
Log Len	m	5.0	5.0	

Type	Block	Strip	Plot			
1 :1 S(Pl)	001	02	4	237.1		237.1
1 :1 S(Pl)	001	02	5	251.0		251.0
1 :1 S(Pl)	001	02	6	169.7		169.7
1 :1 S(Pl)	001	03	8	414.3		414.3
1 :1 S(Pl)	001	03	9	659.5		659.5
1 :1 S(Pl)	001	03	10	76.5		76.5
1 :1 S(Pl)	001	04	11	449.6	241.0	690.7
1 :1 S(Pl)	001	04	12	363.0		363.0
2 :2 Pl	001	04	1		263.3	263.3
2 :2 Pl	001	04	99		284.0	284.0

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage,



Compiled by : Silvicon Services Inc.  
Cruised by : WARREN  
Average Line Method  
OWEN LAKE RANCH LTD.  
Licence Number : WL1761  
Cutting Permit : 001

Gross - Comp DWB  
Forest Inventory Zone : J  
Region : 2 - Prince Rupert

\*\*\* FOR APPRAISAL PURPOSES \*\*\*  
PLOT FREQUENCY REPORT  
Calculations Use All Plots in Type  
Useless Volumes Excluded  
PSYU : Morice  
District : 2 - Morice

PLFRQ- 1

Filename: wl1761.ccp  
29-Nov-2001 01:52:29PM  
Project : WL1761  
Version : 2001.0

MEASURE PLOTS  
Blocks

Timber Type  
1 2

BLOCK 001 (M)

# of Plots	8	2
Ha. / Plot	1.11	0.70

Cut. Permit

# of Plots	8	2
Ha. / Plot	1.11	0.70

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage,



Compiled by : Silvicon Services Inc.  
Cruised by : WARREN  
Average Line Method  
OWEN LAKE RANCH LTD.  
Licence Number : WL1761  
Cutting Permit : 001

\*\*\* FOR APPRAISAL PURPOSES \*\*\*  
PLOT FREQUENCY REPORT  
Calculations Use All Plots in Type  
Gross - Comp DWB  
Forest Inventory Zone : J  
Region : 2 - Prince Rupert  
Useless Volumes Excluded  
PSYU : Morice  
District : 2 - Morice

PLFRQ- 2

Filename: wl1761.ccp  
29-Nov-2001 01:52:29PM  
Project : WL1761  
Version : 2001.0

MEASURE PLOTS

Harvest Methods	1	2
METHOD SC		
# of Plots	8	2
Ha. / Plot	1.11	0.70
All Methods		
# of Plots	8	2
Ha. / Plot	1.11	0.70

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage,



Compiled by : Silvicon Services Inc.  
Cruised by : WARREN  
Average Line Method  
OWEN LAKE RANCH LTD.  
Licence Number : WL1761  
Cutting Permit : 001

\*\*\* FOR APPRAISAL PURPOSES \*\*\*  
PLOT FREQUENCY REPORT  
Calculations Use All Plots in Type  
Gross - Comp DWB  
Forest Inventory Zone : J  
Region : 2 - Prince Rupert  
Useless Volumes Excluded  
PSYU : Morice  
District : 2 - Morice

PLFRQ- 3

Filename: wl1761.ccp  
29-Nov-2001 01:52:29PM  
Project : WL1761  
Version : 2001.0

COUNT PLOTS  
Blocks

Timber Type  
1 2

BLOCK 001 (M)  
# of Plots  
Ha. / Plot

Cut. Permit  
# of Plots  
Ha. / Plot

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage,



Compiled by : Silvicon Services Inc.  
Cruised by : WARREN  
Average Line Method  
OWEN LAKE RANCH LTD.  
Licence Number : WL1761  
Cutting Permit : 001

\*\*\* FOR APPRAISAL PURPOSES \*\*\*  
PLOT FREQUENCY REPORT  
Calculations Use All Plots in Type  
Gross - Comp DWB  
Forest Inventory Zone : J  
Region : 2 - Prince Rupert  
Useless Volumes Excluded  
PSYU : Morice  
District : 2 - Morice

PLFRQ- 4

Filename: wl1761.ccp  
29-Nov-2001 01:52:29PM  
Project : WL1761  
Version : 2001.0

COUNT PLOTS

Harvest Methods                      Timber Type  
   1                      2

METHOD SC  
# of Plots  
Ha. / Plot

All Methods  
# of Plots  
Ha. / Plot

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage,



Compiled by : Silvicon Services Inc.  
 Cruised by : WARREN  
 Average Line Method  
 OWEN LAKE RANCH LTD.  
 Licence Number : WL1761  
 Cutting Permit : 001

\*\*\* FOR APPRAISAL PURPOSES \*\*\*  
 ALL METHOD SUMMARY  
 Calculations Use All Plots in Type  
 Gross - Comp DWB  
 Forest Inventory Zone : J  
 Region : 2 - Prince Rupert  
 Useless Volumes Excluded  
 PSYU : Morice  
 District : 2 - Morice

AHV- 1  
 Filename: wl1761.ccp  
 29-Nov-2001 01:52:29PM  
 Project : WL1761  
 Version : 2001.0

[All Treatment Units : 10.3 ]

	Total	Conifer	S	PL
<b>Utilization Limits</b>				
Min DBH cm (M)			17.5	12.5
Stump Ht cm (M)			30.0	30.0
Top Dia cm (M)			10.0	10.0
Log Len m			5.0	5.0
<b>Volume and Size Data</b>				
Gross Merchantable m3	4139	4139	3348	791
Net Merchantable m3	3567	3567	2916	651
Net Merch - All m3/Ha	346.288	346.288	283.062	63.226
Net Merch - Live m3/Ha	307.006	307.006	243.781	63.226
Net Merch - DP m3/Ha	39.281	39.281	39.281	
<b>Decay</b>				
%gross	9	9	8	11
Waste(billing) %net	3	3	3	5
Total Cull (DWB) %gross	14	14	13	18
<b>Net. Merch Vol/Tree m3</b>				
	0.39	0.39	0.36	0.56
<b>Avg. 5.0 m Log Net Mer m3</b>				
	0.13	0.13	0.12	0.16
<b>%Useless Dead/Living</b>				
<b>Net Second Growth %</b>				
All Burn Volume %				
Heavy Fire Volume %				
Blowdown Volume %	5	5	6	
Insect Volume %	17	17	21	
<b>Lumber and Chips</b>				
%Net Merch - Stud	61	61	64	49
%Net Merch - Small Log	92	92	93	85
%Net Merch - Large Log	8	8	7	15
LRF Small Logs bd ft/m3	177	177	177	180
LRF Large Logs bd ft/m3	213	213	213	212
Avg LRF All bd ft/m3	180	180	179	185
Chip Yield units/m3	0.14	0.14	0.14	0.15
<b>Algorithm Grades</b>				
#1 Sawlog	1	89	86	100
#3 Sawlog (Dead)	3	11	13	
#4 Chipper	4			
#5 Chipper (Dead)	5		1	

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage, , Wet Belt Fir



Compiled by : Silvicon Services Inc.  
 Cruised by : WARREN  
 Average Line Method  
 OWEN LAKE RANCH LTD.  
 Licence Number : WL1761  
 Cutting Permit : 001

\*\*\* FOR APPRAISAL PURPOSES \*\*\*  
 HARVEST METHOD SUMMARY  
 Calculations Use All Plots in Type  
 Gross - Comp DWB  
 Forest Inventory Zone : J  
 Region : 2 - Prince Rupert  
 Useless Volumes Excluded  
 PSYU : Morice  
 District : 2 - Morice

HV- 1

Filename: wl1761.ccp  
 29-Nov-2001 01:52:29PM  
 Project : WL1761  
 Version : 2001.0

Harvest Method : SC - Conventional [All Treatment Units : 10.3 ]

	Total	Conifer	S	PL
Utilization Limits				
Min DBH cm (M)			17.5	12.5
Stump Ht cm (M)			30.0	30.0
Top Dia cm (M)			10.0	10.0
Log Len m			5.0	5.0

Volume and Size Data				
Gross Merchantable m3	4139	4139	3348	791
Net Merchantable m3	3567	3567	2916	651
Net Merch - All m3/Ha	346.288	346.288	283.062	63.226
Net Merch - Live m3/Ha	307.006	307.006	243.781	63.226
Net Merch - DP m3/Ha	39.281	39.281	39.281	

Decay %gross	9	9	8	11
Waste(billing) %net	3	3	3	5
Total Cull (DWB) %gross	14	14	13	18

Net. Merch Vol/Tree m3	0.39	0.39	0.36	0.56
Avg. 5.0 m Log Net Mer m3	0.13	0.13	0.12	0.16
%Useless Dead/Living				

Net Second Growth %

All Burn Volume %				
Heavy Fire Volume %				
Blowdown Volume %	5	5	6	
Insect Volume %	17	17	21	
% Average Slope	12			

Lumber and Chips				
%Net Merch - Stud	61	61	64	49
%Net Merch - Small Log	92	92	93	85
%Net Merch - Large Log	8	8	7	15
LRF Small Logs bd ft/m3	177	177	177	180
LRF Large Logs bd ft/m3	213	213	213	212
Avg LRF All bd ft/m3	180	180	179	185
Chip Yield units/m3	0.14	0.14	0.14	0.15

Algorithm Grades %				
#1 Sawlog	1	89	89	86
#3 Sawlog (Dead)	3	11	11	13
#4 Chipper	4			
#5 Chipper (Dead)	5			1

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage, , Wet Belt Fir



Compiled by : Silvicon Services Inc.  
Cruised by : WARREN  
Average Line Method  
OWEN LAKE RANCH LTD.  
Licence Number : WL1761  
Cutting Permit : 001

\*\*\* FOR APPRAISAL PURPOSES \*\*\*  
FIELD DATA & SLOPE AVERAGES  
Calculations Use All Plots in Type  
Gross - Comp DWB  
Forest Inventory Zone : J  
Region : 2 - Prince Rupert  
Useless Volumes Excluded  
PSYU : Morice  
District : 2 - Morice

SLOPE- 1

Filename: wl1761.ccp  
29-Nov-2001 01:52:29PM  
Project : WL1761  
Version : 2001.0

Block	Strip	Plot	Type	Meth	Slp	Strip	Plot	Type	Meth	Slp	Strip	Plot	Type	Meth	Slp	Strip	Plot	Type	Meth	Slp			
					%					%					%					%			
BLOCK 001	04	11	1	SC	5	03	10	1	SC	4	04	12	1	SC	12	04	99	2	SC	13			
BLOCK 001	04	1	2	SC	9	02	5	1	SC	14	02	4	1	SC	6	02	6	1	SC	25			
BLOCK 001	03	9	1	SC	17	03	8	1	SC	17													
Block Summary:					Total % Slope:	122	No. of Plots:					10	Average % Slope:					12.3	(Weighted)				
																		12.2	(Arithmetic)				

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage,



Compiled by : Silvicon Services Inc.  
Cruised by : WARREN  
Average Line Method  
OWEN LAKE RANCH LTD.  
Licence Number : WL1761  
Cutting Permit : 001

\*\*\* FOR APPRAISAL PURPOSES \*\*\*  
FIELD DATA & SLOPE AVERAGES  
Calculations Use All Plots in Type  
Gross - Comp DWB  
Forest Inventory Zone : J  
Region : 2 - Prince Rupert  
Useless Volumes Excluded  
PSYU : Morice  
District : 2 - Morice

SLOPE- 2

Filename: wl1761.ccp  
29-Nov-2001 01:52:29PM  
Project : WL1761  
Version : 2001.0

Harvest Method Summary :

SC	:	Total % Slope:	122	No. of Plots:	10	Average % Slope:	12.3	
Total Slope Report	:	Total % Slope:	122	No. of Plots:	10	Average % Slope:	12.3	(Weighted)
						12.2		(Arithmetic)

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage,



Compiled by : Silvicon Services Inc.  
 Cruised by : WARREN  
 Average Line Method  
 OWEN LAKE RANCH LTD.  
 Licence Number : WL1761  
 Cutting Permit : 001

\*\*\* FOR APPRAISAL PURPOSES \*\*\*  
 TREE REPORT  
 Calculations Use All Plots in Type  
 Useless Volumes Excluded  
 PSYU : Morice  
 District : 2 - Morice  
 Gross - Comp DWB  
 Forest Inventory Zone : J  
 Region : 2 - Prince Rupert

TREE- 1

Filename: wl1761.ccp  
 29-Nov-2001 01:52:29PM  
 Project : WL1761  
 Version : 2001.0

Block	Strip	Plot	Type	Tree	Spcs.	Height	DBH	Stems Per/HA Factor	Gross Bio	Gross Merch	Less D	Less DW	Less DWB	TC	RG	Series	Mat.	Pathology	Quality	Dam.
001	02	4	1	1	S	18.3	17.8	281.30	0.197	0.164	0.164	0.164	0.161	1	1	503	YI	00000000	00000000	
				4	S	19.5	21.2	198.31	0.292	0.259	0.259	0.259	0.254	8	1	503	YI	00000000	00000000	
				7	S	19.2	21.3	196.45	0.290	0.257	0.257	0.257	0.252	1	1	503	YI	00000000	00000000	
				8	S	17.3	18.0	275.08	0.190	0.159	0.159	0.159	0.155	1	1	503	YI	00000000	00000000	
				9	S	19.8	17.9	278.16	0.216	0.181	0.181	0.181	0.177	1	1	503	YI	00000000	00000000	
				3	S	20.6	19.5	234.39	0.264	0.229	0.229	0.229	0.225	1	1	503	YI	00000000	00000000	
				5	S	18.4	20.7	208.00	0.263	0.231	0.231	0.231	0.226	2	1	503	YI	00100000	00000000	
				6	S	20.5	24.6	147.28	0.407	0.371	0.371	0.371	0.363	1	1	503	YI	00000000	00000000	
				7	S	19.7	21.8	187.54	0.311	0.277	0.277	0.277	0.272	2	1	503	YI	00100000	00000000	
				8	S	18.6	18.8	252.17	0.222	0.189	0.189	0.189	0.186	2	1	503	YI	00100000	00000000	
				2	S	19.6	21.5	192.81	0.302	0.268	0.268	0.265	0.260	1	1	504	OI	00000000	00000000	
				4	S	21.7	23.7	158.68	0.402	0.365	0.361	0.361	0.354	1	1	504	OI	00000000	00000000	
				6	S	26.0	55.2	29.25	2.353	2.235	2.212	2.212	2.168	8	1	504	OI	00000000	00000000	
				1	S	29.2	41.1	52.76	1.523	1.450	1.387	1.375	1.346	1	1	599	M	00000000	00000000	
				2	S	26.8	21.7	189.27	0.422	0.381	0.367	0.367	0.359	1	1	599	M	00000000	00000000	
				3	S	23.6	24.0	154.73	0.448	0.409	0.394	0.393	0.385	1	1	599	M	00000000	00000000	
				4	S	29.2	40.8	53.54	1.502	1.431	1.247	1.182	1.153	2	2	599	M	00100000	00000000	
				5	S	20.3	24.7	146.09	0.406	0.370	0.356	0.355	0.348	1	1	599	M	00000000	00000000	
				7	S	24.6	28.5	109.73	0.645	0.601	0.456	0.387	0.375	3	3	599	M	00000000	00000000	
				8	S	24.6	27.8	115.32	0.616	0.573	0.551	0.548	0.537	1	1	599	M	00000000	00000000	
				1	S	21.6	23.8	157.35	0.403	0.366	0.322	0.309	0.302	2	2	599	M	00100000	00000000	5
				3	S	21.3	21.1	200.19	0.317	0.281	0.248	0.239	0.233	2	2	599	M	00000000	00000000	
				4	S	27.8	34.3	75.76	1.033	0.978	0.855	0.814	0.794	2	2	599	M	00101000	00000000	
				5	S	29.3	33.0	81.84	1.014	0.960	0.920	0.913	0.894	1	1	599	M	00000000	00000000	
				6	S	33.0	40.0	55.70	1.638	1.566	1.365	1.293	1.262	2	2	599	M	00030000	00000000	5 E
				7	S	29.7	34.0	77.10	1.087	1.030	0.988	0.981	0.960	1	1	599	M	00000000	00000000	5
				8	S	30.2	31.0	92.74	0.930	0.878	0.769	0.735	0.718	2	2	599	M	00010000	00000000	5
				9	S	31.9	48.0	38.68	2.222	2.128	1.387	1.126	1.083	3	3	599	M	00000000	00000000	E
				10	S	30.8	29.1	105.25	0.843	0.793	0.762	0.759	0.743	1	1	599	M	00000000	00000000	5
				11	S	28.3	32.7	83.35	0.962	0.909	0.795	0.756	0.738	2	2	599	M	00011000	00000000	
				14	S	27.0	39.6	56.84	1.313	1.246	0.871	0.720	0.695	3	3	599	M	00000000	00000000	E
				1	S	20.4	28.8	107.45	0.545	0.504	0.382	0.324	0.314	3	3	599	M	00000000	00000000	7
				2	S	17.4	20.8	206.01	0.251	0.220	0.212	0.212	0.208	1	1	599	M	00000000	00000000	5
				1	PL	22.5	32.6	83.86	0.814	0.770	0.678	0.645	0.630	2	2	811	M	00130000	00000000	
				2	PL	21.9	25.2	140.35	0.493	0.459	0.414	0.394	0.385	2	2	811	M	00100000	00000000	
				4	PL	22.9	47.2	40.01	1.605	1.523	1.291	1.191	1.160	2	2	811	M	00100000	00000000	
				5	PL	24.7	34.4	75.32	0.992	0.944	0.831	0.791	0.772	2	2	811	M	00100000	00000000	
				6	PL	23.2	37.6	63.04	1.088	1.033	0.896	0.843	0.823	2	2	811	M	00730000	00000000	
				3	S	29.5	33.3	80.37	1.038	0.983	0.943	0.936	0.916	1	1	599	M	00000000	00000000	
				5	S	26.6	28.2	112.08	0.685	0.640	0.615	0.612	0.599	1	1	599	M	00000000	00000000	
				9	S	24.2	21.4	194.62	0.370	0.332	0.320	0.320	0.313	1	1	599	M	00000000	00000000	
				10	S	27.4	28.1	112.87	0.701	0.655	0.630	0.627	0.614	1	1	599	M	00000000	00000000	
				12	S	31.7	36.2	68.01	1.305	1.243	1.192	1.183	1.158	1	1	599	M	00000000	00000000	
				14	S	21.5	18.1	272.05	0.240	0.203	0.180	0.180	0.176	3	3	599	M	00000000	00000000	
				15	S	24.0	18.7	254.87	0.285	0.245	0.216	0.208	0.203	2	2	599	M	00000003	00000000	
				1	PL	22.3	23.9	156.03	0.455	0.423	0.381	0.362	0.354	2	2	811	M	00100000	00000000	
				2	PL	23.0	22.7	172.96	0.427	0.395	0.357	0.339	0.331	2	2	811	M	00030000	00000000	
				8	PL	26.1	29.5	102.42	0.796	0.756	0.674	0.642	0.627	2	2	811	M	00100000	00000000	
				11	PL	23.4	23.2	165.59	0.454	0.421	0.398	0.397	0.389	1	1	811	M	00000000	00000000	
				1	S	24.2	30.1	98.37	0.703	0.657	0.576	0.550	0.537	2	2	599	M	00100000	00000000	
				3	S	21.0	40.3	54.88	1.055	0.990	0.692	0.572	0.552	3	3	599	M	00000002	00000000	
				4	S	23.3	27.9	114.50	0.587	0.545	0.524	0.521	0.510	1	1	599	M	00000000	00000000	
				7	S	20.5	22.9	169.96	0.356	0.320	0.267	0.245	0.238	3	3	599	M	00000000	00000000	7
				9	S	18.7	18.5	260.41	0.217	0.184	0.177	0.177	0.173	1	1	599	M	00000000	00000000	
				11	S	19.5	20.3	216.28	0.269	0.236	0.209	0.209	0.205	3	3	599	M	00000000	00000000	7
				13	S	19.2	19.7	229.65	0.250	0.217	0.210	0.210	0.205	1	1	599	M	00000000	00000000	
				14	S	22.3	23.8	157.35	0.416	0.379	0.315	0.290	0.282	3	3	599	M	00000000	00000000	7
				1	PL	27.6	39.6	56.84	1.437	1.378	1.195	1.124	1.097	2	2	811	M	00120000	00000000	
				2	PL	24.4	37.1	64.75	1.121	1.068	0.940	0.895	0.873	2	2	811	M	00120000	00000000	
				3	PL	25.3	35.2	71.93	1.060	1.011	0.890	0.847	0.827	2	2	811	M	00100000	00000000	
				5	PL	24.4	38.1	61.40	1.175	1.120	0.971	0.914	0.892	2	2	811	M	00100000	00000000	
				7	PL	24.3	42.7	48.88	1.433	1.365	1.158	1.068	1.040	2	2	811	M	00050000	00000000	

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage,



Compiled by : Silvicon Services Inc.  
Cruised by : WARREN  
Average Line Method  
OWEN LAKE RANCH LTD.  
Licence Number : WL1761  
Cutting Permit : 001

\*\*\* FOR APPRAISAL PURPOSES \*\*\*  
PLOT LISTING REPORT  
Calculations Use All Plots in Type  
Gross - Comp DWB  
Forest Inventory Zone : J  
Region : 2 - Prince Rupert  
Useless Volumes Excluded  
PSYU : Morice  
District : 2 - Morice

PLIST- 1

Filename: wl1761.ccp  
29-Nov-2001 01:52:29PM  
Project : WL1761  
Version : 2001.0

Utilization Levels:	Minimum DBH	Top Diameter	Stump Height
Mature Blocks: (cm)	17.5	10.0	30
Immature Blocks: (cm)	12.0	10.0	30
Exception[PL]: (cm)	12.5	10.0	30
Standard Log Length:	5.00		

All Cards:

1. AWL1761001001202J0490009707	00000103A	RIDDECK CR. WARREN	
2. BWL17610011 1101 3175030100	5PL 3125 30100 5	A	
3. CWL1761001 011 S(Pl)	89		
4. CWL1761001 022 Pl	14		
5. DWL176100100101	89	02 14	M
6. FWL1761001 SC01	89	02 14	
7. GWL1761001A			
8. 9WL176100100102040010718M	7000F 75	SC 69910	
9. 2WL17610010010204001071801183S	1781		
10. 2WL17610010010204001071804195S	2128		
11. 2WL17610010010204001071807192S	2131		
12. 2WL17610010010204001071808173S	1801		
13. 2WL17610010010204001071809198S	1791		
14. 3WL17610010010204001071804195S	2122 66		
15. 3WL17610010010204001071807192S	2132		
16. 9WL176100100102050010818M	7000F 75	SC 149910	
17. 2WL17610010010205001081803206S	1951		
18. 2WL17610010010205001081805184S	2072 1		
19. 2WL17610010010205001081806205S	2461		
20. 2WL17610010010205001081807197S	2182 1		
21. 2WL17610010010205001081808186S	1882 1		
22. 3WL17610010010205001081803206S	1952		
23. 3WL17610010010205001081807197S	2182 74		
24. 9WL176100100102060011021M	7000F 75	SC 259910	
25. 2WL17610010010206001102102196S	2151		
26. 2WL17610010010206001102104217S	2371		
27. 2WL17610010010206001102106260S	5528		
28. 3WL17610010010206001102102196S	2152		
29. 3WL17610010010206001102106260S	5521 95		
30. 9WL176100100103080011327M	7000F 75	SC 179910	
31. 2WL17610010010308001132701292S	4111		
32. 2WL17610010010308001132702268S	2171		
33. 2WL17610010010308001132703236S	2401		
34. 2WL17610010010308001132704292S	4082 1		
35. 2WL17610010010308001132705203S	2471		
36. 2WL17610010010308001132707246S	2853		
37. 2WL17610010010308001132708246S	2781		
38. 3WL17610010010308001132702268S	2171		
39. 3WL17610010010308001132704292S	4081124		
40. 9WL176100100103090011324M	7000F 75	SC 179910	
41. 2WL17610010010309001132401216S	2382 1	5	
42. 2WL17610010010309001132403213S	2112 1		
43. 2WL17610010010309001132404278S	3432 1 1		
44. 2WL17610010010309001132405293S	3301		
45. 2WL17610010010309001132406330S	4002 3	5 E	
46. 2WL17610010010309001132407297S	3401	5	
47. 2WL17610010010309001132408302S	3102 1	5	
48. 2WL17610010010309001132409319S	4803	E	
49. 2WL17610010010309001132410308S	2911	5	
50. 2WL17610010010309001132411283S	3272 11		
51. 2WL17610010010309001132414270S	3963	E	
52. 3WL17610010010309001132404278S	3431126		
53. 3WL17610010010309001132405293S	3301		
54. 9WL176100100103100011518M	7000F 75	SC 49910	
55. 2WL17610010010310001151801204S	2883	7	
56. 2WL17610010010310001151802174S	2081	5	
57. 3WL17610010010310001151802174S	2082147		
58. 9WL176100100104110011327M	7000F 75	SC 59910	
59. 2WL17610010010411001132701223PL	2392 1		
60. 2WL17610010010411001132702230PL	2272 3		
61. 2WL17610010010411001132703295S	3331		
62. 2WL17610010010411001132705266S	2821		
63. 2WL17610010010411001132708261PL	2952 1		
64. 2WL17610010010411001132709242S	2141		
65. 2WL17610010010411001132710274S	2811		
66. 2WL17610010010411001132711234PL	2321		
67. 2WL17610010010411001132712317S	3621		
68. 2WL17610010010411001132714215S	1813		
69. 2WL17610010010411001132715240S	1872	3	
70. 3WL17610010010411001132705266S	2821124		
71. 3WL17610010010411001132711234PL	2322120		
72. 9WL176100100104120011318M	7000F 75	SC 129910	
73. 2WL17610010010412001131801242S	3012 1		
74. 2WL17610010010412001131803210S	4033	2	
75. 2WL17610010010412001131804233S	2791		
76. 2WL17610010010412001131807205S	2293	7	
77. 2WL17610010010412001131809187S	1851		
78. 2WL17610010010412001131811195S	2033	7	
79. 2WL17610010010412001131813192S	1971		
80. 2WL17610010010412001131814223S	2383	7	
81. 3WL17610010010412001131801242S	3012126		
82. 3WL17610010010412001131813192S	1972		
83. 9WL176100100104010021324M	7000F 75	SC 99910	
84. 2WL17610010010401002132401225PL	3262 13		
85. 2WL17610010010401002132402219PL	2522 1		
86. 2WL17610010010401002132404229PL	4722 1		
87. 2WL17610010010401002132405247PL	3442 1		
88. 2WL17610010010401002132406232PL	3762 73		
89. 3WL17610010010401002132401225PL	3262122		
90. 3WL17610010010401002132406232PL	3762		
91. 9WL176100100104990021324M	7000F 75	SC 139910	
92. 2WL17610010010499002132401276PL	3962 12		
93. 2WL17610010010499002132402244PL	3712 12		

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage,



Compiled by : Silvicon Services Inc.  
Cruised by : WARREN  
Average Line Method  
OWEN LAKE RANCH LTD.  
Licence Number : WL1761  
Cutting Permit : 001

\*\*\* FOR APPRAISAL PURPOSES \*\*\*  
PLOT LISTING REPORT  
Calculations Use All Plots in Type  
Gross - Comp DWB  
Forest Inventory Zone : J  
Region : 2 - Prince Rupert  
Useless Volumes Excluded  
PSYU : Morice  
District : 2 - Morice

PLLST- 2

Filename: wl1761.ccp  
29-Nov-2001 01:52:29PM  
Project : WL1761  
Version : 2001.0

Utilization Levels:	Minimum DBH	Top Diameter	Stump Height
Mature Blocks: (cm)	17.5	10.0	30
Immature Blocks:(cm)	12.0	10.0	30
Exception[PL]: (cm)	12.5	10.0	30
Standard Log Length:	5.00		

94. 2WL17610010010499002132403253PL 3522 1  
95. 2WL17610010010499002132405244PL 3812 1  
96. 2WL17610010010499002132407243PL 4272 5  
97. 3WL17610010010499002132403253PL 3521128

9 Cards only:

8.	9WL176100100102040010718M	7000F 75	SC 69910
16.	9WL176100100102050010818M	7000F 75	SC 149910
24.	9WL176100100102060011021M	7000F 75	SC 259910
30.	9WL176100100103080011327M	7000F 75	SC 179910
40.	9WL176100100103090011324M	7000F 75	SC 179910
54.	9WL176100100103100011518M	7000F 75	SC 49910
58.	9WL176100100104110011327M	7000F 75	SC 59910
72.	9WL176100100104120011318M	7000F 75	SC 129910
83.	9WL176100100104010021324M	7000F 75	SC 99910
91.	9WL176100100104990021324M	7000F 75	SC 139910

3 Cards only:

14.	3WL17610010010204001071804195S	2122 66
15.	3WL17610010010204001071807192S	2132
22.	3WL17610010010205001081803206S	1952
23.	3WL17610010010205001081807197S	2182 74
28.	3WL17610010010206001102102196S	2152
29.	3WL17610010010206001102106260S	5521 95
38.	3WL17610010010308001132702268S	2171
39.	3WL17610010010308001132704292S	4081124
52.	3WL17610010010309001132404278S	3431126
53.	3WL17610010010309001132405293S	3301
57.	3WL17610010010310001151802174S	2082147
70.	3WL17610010010411001132705266S	2821124
71.	3WL17610010010411001132711234PL	2322120
81.	3WL17610010010412001131801242S	3012126
82.	3WL17610010010412001131813192S	1972
89.	3WL17610010010401002132401225PL	3262122
90.	3WL17610010010401002132406232PL	3762
97.	3WL17610010010499002132403253PL	3521128

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage,





Ministry of Forests  
Prince Rupert Forest Region



MARKHOLDER'S SCALING / TIMBER MOVEMENT  
AGREEMENT

Timber Brand

[Empty box for Timber Brand]

# 683

Timber Mark

W1761A

Forest District of Origin:	Morice	Mark / Brand Expiry Date:	2007/05/29
Geographic Area Of Origin:	Riddeck FSR	Population Expiry Date:	
Decked Yes <input type="checkbox"/>	Block # R/W	Contractor:	Domino Logging
		Min. Util.	cm

SCALE SITE	253	253	253	
Sort	Pl & Sw	Ba	Dry	
Stratum	33		40	
Population / Sample Year	2253 02/03	2253 02/03	2253 02/03	
Estimated Volume M3	3000		200	
Estimated # of Loads	47		3	
Species	Pl & Sw	Ba	Pl/Sw/Ba	

to be completed by:

MARKHOLDER

- It is an offence to transport timber other than to the designated scale sites.
- Timber marking and transportation documents must comply with the Timber Marking and Transportation Regulation. (Regulation. 253/97)
- This agreement must be signed and approved by a Ministry of Forests official prior to timber transport or scaling.
- This agreement *does not* constitute an approval to harvest timber.
- This agreement must be submitted for ministry approval five (5) working days prior to timber transport.

By signing below I acknowledge the above conditions and accept responsibility for compliance.

Signature:

[Signature]

Address

Name (print):

Owen Lake Ranch Ltd.

Box 10

Date:

Sept. 19 2002

Houston, B.C.

To be completed by:

SCALE SITE OPERATOR

By signing below I acknowledge the timber referred to in this agreement will be scaled subject to the conditions specified in the scale site authorization for the above designated sites.

Site Owner / Operator:

Houston Forest Products

Signature:

[Signature]

Company:

Houston Forest Products

Title:

Log Buyer

Approved by:

[Signature]

Ministry Of Forests

Date Sept 20 2002

Comments:

- This agreement expires and will no longer be valid on: April 30 2003





Province of                      Ministry of  
British Columbia      Forests



**FILE NOTE**

SUBJECT: W1761 CPA -Road Layout and

DATE: April 15, 2002

Design

FILE NOTE:

ATTENTION: *for* *DS* Bill Warner (District Manager)

I have reviewed the Road Layout and Design and revisions, as per the Woodlot Licence Forest Management Regulations, and recommend approval.

Please sign the attached letters and return to me.

Thanks,

Mary Robinson, RT Woodlots




## INTERIOR APPRAISAL DATA SUBMISSION

<b>Licence:</b>	WL 1761	<b>Permit:</b>	CP A	<b>Mark:</b>	W1761A
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### ACKNOWLEDGEMENTS

This Appraisal Data Submission contains, as of this date, truthful information on the timber to be harvested, site conditions, harvesting, development, and silviculture plans and other information, all prepared according to the *Interior Appraisal Manual*.

*Registered Professional Forester:*

<b>Name:</b>	Heloise R. Dixon-Warren, RPF	<b>RPF's Signature and Seal</b> 
<b>RPF#:</b>	2886	
<b>Phone:</b>	(250) 845-2736	
<b>Fax:</b>	(250) 845-3672	
<b>Email:</b>	<a href="mailto:hdwtt@bulkley.net">hdwtt@bulkley.net</a>	
<b>Date:</b>	January 4, 2002	

The information contained in this package may be released under the *Freedom of Information and Protection of Privacy Act*.



# INTERIOR APPRAISAL DATA SHEET

(Signature Page)

<b>Licence</b>	WL1761	<b>Permit</b>	A	<b>Mark</b>	W1761A
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Associated Permits: N/A

(If CP, give road permit no. which accessed the CP)

## ACKNOWLEDGEMENTS

### Licence or Licensee's Agent

I certify this appraisal data sheet is a true statement of timber stand, site conditions and/or harvesting, development, silviculture and any other requirements for the documents named herein. It has been completed according to the requirements of the Interior Appraisal Manual currently in effect.

Initial Submission (Mandatory)

<b>Name:</b>	Heloise R. Dixon-Warren	<b>Date:</b>	2002/01/04
	(printed)	(signed)	(yyyy/mm/dd)
<b>Representing:</b>	Mr. Harry Vandenberg (Owen Lake Ranch)		

Revised Submission (Optional)

<b>Name:</b>	Heloise R. Dixon-Warren, RPF	<b>Date:</b>	2002/04/11
	(printed)	(signed)	(yyyy/mm/dd)

### Forest District Appraisal Staff

Entries on this appraisal data sheet have been reviewed for accuracy and completeness, and revised where necessary.

Receipt of Submission Date:	<b>Ministry Use Only</b>		
(yyyy/mm/dd)	Appraisal Data Field Verified	<input type="checkbox"/> YES	<input type="checkbox"/> NO
	Comments		
	Check Cruised (Y/N)	<input type="checkbox"/>	Standard Error <input type="checkbox"/> %

Data Sheet Prepared by:

<b>Name: (Printed)</b>	<b>Signed</b>	<b>Position</b>	<b>Date (yyyymmdd)</b>
Heloise R. Dixon-Warren, RPF		Consultant	2002/04/11

Reviewed by Supervisor:

<b>Name: (Printed)</b>	<b>Signed</b>	<b>Position</b>	<b>Date (yyyymmdd)</b>
N/A	N/A	N/A	N/A

### Forest Region Staff

Reviewed by Region:

<b>Name: (Printed)</b>	<b>Signed/Initialled</b>	<b>Position</b>	<b>Date (yyyymmdd)</b>
Dave Botten	DB	A/O	08 04/22

(Signed indicates complete review; Initialled indicates data not reviewed in its entirety)



## INTERIOR APPRAISAL DATA SHEET

Licence	W1761	Permit	A	Mark	W1761A
Effective Date:	2002/05/30 (yyyy/mm/dd)			Expiry Date:	2003/05/31 (yyyy/mm/dd)
District	Morice	TSA	Morice	Supply Block	C
If SBFEP, Indicate: S.20 <input type="checkbox"/> S.21 <input type="checkbox"/> or S.23 <input type="checkbox"/> If SBFEP, Indicate If Major (AAC > 10,000 m3) Yes <input type="checkbox"/> No <input type="checkbox"/> SBFEP (CVP only) Silviculture Levy (s.6.6) <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Development Levy <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>					
Point of Appraisal (s.2.5)		Houston		Actual destination: Houston	
Geographic Location:		Changes in area/vol. since compilation:			
Reference Mark (s.2.5) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Orig.compiled vol.(m3)		3567	
If yes, Timber Mark:		Deletions/Additions(m3)		445	
		(Include +/- sign) Equals:		3122	
Total Net Cruise Vol.	(s.4.2)	3122		Reason 0.94 ha. harvested as SSS (patches & trails)	
Total Merch. Area (ha)	(s.4.4)	9.0		348m3/ha * 0.94 ha. = 325.2 m3; 120m3 traptrees; T=445.24m3	
Is this a Specified Operation? (s.4.1.1)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Cruise Based?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
If yes, give description from manual N/A					
Woodlot Reappraisal Selection (s 2.4(2)): <input type="checkbox"/> Adjustable <input type="checkbox"/> Annual					

(Whole numbers) **SPECIES INFORMATION TABLE (1)**  
(information obtained from cruise summary)

Species*	Net Cruise Volume m3 (s.4.2)	Decay %	Stud Log % (s.3.3(4))	Average LRF (s.3.3(1))	Burn % (s.3.3)
BA					
CE					
HE					
LO	571	11	49	185	0
SP	2551	8	64	179	0
<b>Total</b>	<b>3122</b>	Must Equal Total Net Cruise Volume from above			

\* For species: LO=Lodgepole Pine, BA=Balsam & Fir, SP=Spruce, HE=Hemlock, CE=Cedar

Others tied to: <input type="text" value="LO"/> (BA, otherwise LO if BA does not exist)	HE Grade 4 Utilization Required <input type="checkbox"/> Yes <input type="checkbox"/> No (s.3.1(5)) Competitive Indicator Y/N <input type="checkbox"/> SP Zone <input type="text"/>
--	---



## INTERIOR APPRAISAL DATA SHEET

### TREE TO TRUCK DATA

<b>Site Location:</b>			
Support Centre (Sec.4.4.2(6))	Houston	One-way Distance (km):	66.5

Variables (Sec.4.4) <sup>1</sup>	Harvest Methods					
	Ground Skidding		Overhead		6.Skyline	7.Helicopter
	2.Clear Cut (Sec.4.4.3.1)	3.Partial Cut * (Sec.4.4.3.1)	4.Clearcut (Sec.4.4.3.4)	5.Partial Cut (Sec.4.4.3.4)	(Sec.4.4.3.4b)	(Sec.4.4.3.4b)
Vol.(m3) to be Harvested (Sec.4 pp5)	3122					
Biogeoclimatic Zone <sup>2</sup> (Sec. 4 pp. 29)	SBSmc2					
Net Volume/tree - m3(Sec. 4 pp. 31)	0.39					
Net Volume/hectare - m3(Sec. 4 pp. 28)	346					
Stand Defect (DW2B %)(Sec. 4 pp. 31)	14					
Partial cut <sup>3</sup> % (Sec. 4 pp. 29)	0					
Average Slope - % (Sec. 4 pp. 29)	12					
Blowdown - % (Sec. 4 pp. 29)	5					
Heavy Fire Damage - % (Sec. 4 pp. 35)	0					
Dead Useless Snags -%(Sec.4 pp.35)	0					
Yarding Distance						
Hemlock (HE) (m <sup>3</sup> )						
Douglas Fir (FI) (m <sup>3</sup> )						
Spruce (SP) (m <sup>3</sup> )						
Lodgepole Pine (LO) (m <sup>3</sup> )						

7.Horse Logging (Sec.4 pp.32)	0	m <sup>3</sup>
-------------------------------	---	----------------

**Total Volume (m3) based on above harvest methods:** 3122  
 (Confirm that total equals total net cruise vol. from p.2)

Specified Logging Operations (skidder swing and salvage logging (s. 4.1.1):		
Description	Applicable Volume	Cost Estimate \$/m3
N/A		
N/A		
Skidder swing will only be considered between harvest methods listed in sec. 4.4.1 (four methods), in order to deliver logs to an existing or appraised road/landing.		

<sup>1</sup> Information to be obtained from Harvest Method Summary of the cruise compilation.

<sup>2</sup> Separate zone for ea. method, dominant zone is that with highest volume

<sup>3</sup> Percent removal >=90% are to be appraised as clear cut (s.4.4.2(5))



# **INTERIOR APPRAISAL DATA SHEET**

## **LOG TRANSPORTATION DATA (s.4.5)**

<b>Method (s.4.5.1(2):</b>		Hwy: <input type="checkbox"/>	Off-hwy: <input checked="" type="checkbox"/>
Primary Cycle Time: <input type="text"/> (0.1 hrs)			
If Secondary Haul: (s.4.5.2.2)	Secondary Cycle Time: <input type="text"/> (0.1 hrs)		
<b>Water Transportation(s.4.5.3)</b>		<b>Road Maintenance (s.4.6)</b>	
Dump & Boom: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Road Use Charges (s.4.7) <input type="text"/> (\$/m3)		
Dump Site: <input type="text"/>	(page is available from region upon request)		
Lake tow distance: <input type="text"/> km			
Dewater and reload: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			
Lake Code: OOLK=Ootsa			

**Common Junction Location (s.4.5.1):**

**Table 4** Complete Columns (1)to(4); remainder (shaded) will be automatically calculated by GAS program

Common Junction Calculation (s.4.5.1)					Weighted average cycle time				
(1) Cutblock Section	(2) Volume M3	(3) Distance (0.1 km)	(4) Speed (km/hr)		(5) Time (min)*		(6) % of Total Vol	(7) %*Time (whole min)	
eg:			Loaded	Empty	Loaded	Empty		Loaded	Empty
1	N/A	N/A	N/A	N/A					
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
<b>Total Volume</b>									
<b>*Total Time=(Distance/Speed)X60(minutes)</b>					<b>Total Weighted Cycle Time</b>				

Note: Total volume equals Net Cruise Volume. If not, adjust largest.

(L=) (E=)  
Enter in table 6  
Dec 1, 2000



## INTERIOR APPRAISAL DATA SHEET

Table 5

<b>PRIMARY CYCLE TIME CALCULATION</b> (s.4.5.2.1 & s.2.5.1)						
<b>ROAD NAME</b>		<b>Distance</b> (0.1 km)	<b>Speed (km/hr)</b>		<b>Time (whole minutes)</b>	
<b>Identifier</b>	<b>P/S</b>		<b>Loaded</b>	<b>Empty</b>	<b>Loaded</b>	<b>Empty</b>
Branch 1	P	0.4	10	15		
Riddeck Cr. FSR	P	4.1	40	50		
Owen North FSR	P	3.0	40	50		
Morice-Owen FSR	P	27.0	59	80		
Morice FSR		27.0	59	80		
6						
7						
8						
9						
<b>Notes:</b>			<b>Subtotal</b>		(L=)	(E=)

P/S=Primary (p.4.5.2.1) / Secondary (s.4.5.2.2) Hauls

(enter in Table 6)

The time in the primary cycle time calculation (shaded above) will be automatically calculated by the GAS program.

Table 6

<b>LOG TRANSPORTATION SUMMARY</b>			
(Units = whole minutes)		Primary (s.4.5.2.1)	Secondary (s.4.5.2.2)
Load, Handling & delay (s.4.5.1)	A=	60*	50
Common Junction Time (L+E) from Table 4	B=		N/A
Cycle Time (L+E) from Table 5.	C=		
TOTAL CYCLE TIME (minutes) (A+B+C)			
TOTAL CYCLE TIME (hours rounded to 0.1)			

\* 75 minutes for Overhead Cable Yarding (prorate when combined with horse, ground skid or helicopter).

L=Loaded, E=Empty

### Special Transportation Systems (s.4.5.4)

<b>System Name</b>	<b>Code</b>	<b>Cost (\$/m3)</b>	<b>Applicable Volume (m3)</b>
_____	_____	_____	_____

#### Description

1. Barge ferry used for truck haul:

	<b>System Name</b>	<b>Code</b>	<b>Cost /m3</b>
A. Natural Lakes:	Babine Lake barges	BUA	\$1.97
	All other natural lakes	BUA	\$1.97

B. Reservoir Lakes	Ootsa Lake/Tahtsa Reach	BUO	\$3.68
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2. Barge ferry not used for truck haul:

Ootsa Lake (historically)	BFA	\$0.87
---------------------------	-----	--------



## INTERIOR APPRAISAL DATA SHEET

### ADMINISTRATION AND OTHER COSTS

(s.4.8)

Isolated Cutting Authority: No <input checked="" type="checkbox"/> X Yes <input type="checkbox"/>	Other costs: Rail = code 4 <input type="text"/> Lake / Ocean = code 3 <input type="text"/>
--	--

### ROAD AND DRAINAGE STRUCTURES (s.4.3.2)

1. **Culverts (Tabular) (s.4.3.2.4(1))** Applicable Volume (m3)   
 (only if different from net merch vol. p.2)

**Table 7**

	Location (station & road)	Size (Diameter) (m)	Length (m)	Number Required
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				

Culverts of the same dimensions may be totalled, but a map showing culvert locations and dimensions must be supplied to district.

2. **Bridges (Tabular) (s.4.3.2.4(2))** Applicable Volume (m3)   
 (only if different from net merch. vol. from p.2)

**Table 8**

	Bridge Location (station and road) and bridge number if applicable	Average Crib Height (m)	Span Length (m)
1	N/A		
2			
3			
4			
5			

**NOTE:** Tabular culverts are those of sizes included in IAM Table 4-4  
 Tabular bridges are those of sizes included in IAM Table 4-5



## INTERIOR APPRAISAL DATA SHEET

Mark Road Group:

☐ 1. Kalum, Kispiox

☐ 2. Bulkley/Cassiar

☒ 3. Lakes, Morice

**Table 9**

**Tabular Road Construction Data (New Construction Only)**

List sections separately by biogeoclimatic zone.

Biogeoclimatic Zone (s.4.3.2(6)) SBSmc2

Applicable Volume \* (m3) 0

			Subgrade (s.4.3.2.2)			Stabilizing Material (s.4.3.2.5)			
Road Identity (Station & Identity)	Road Type <sup>1</sup> O,B,W	Section Length (km) (0.1)	Soil Moist <sup>2</sup> W/blank	Uphill Side Slope (%)	Rock (%)	Stab. Length (km)	Haul Dist. <sup>3</sup> (0.1 km)	Mat. Type Q-rock <sup>4</sup> Yes/No	Stab. Source (Station)
1									
2 0+000 0+300	O	0.3		7	15	0.2	7.4	No	Jn. of Owen N. and Morice FSR
3 0+300 0+400	O	0.1		16	15	0.1	7.5	No	Jn. of Owen N. and Morice FSR
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
TOTAL LENGTH		0.4	Attach additional pages where necessary						

<sup>1</sup> O=Operational, B=Block, W=Winter/Snow road, as per s.4.3.2.2

<sup>2</sup> Soil moisture regime=W if site series is M, VM on soil table in App.IV, otherwise blank;  
no variable in Prince Rupert Region formulae

<sup>3</sup> One way haul distance is not a variable in road group 3;

<sup>4</sup> Q=quarried rock; is not a variable in rd. gp. 2

Prince Rupert Forest Region, Electronic Submission Format, Excel ver. 2000-1.2

Dec 1, 2000



## INTERIOR APPRAISAL DATA SHEET

**Table 10**      ***Other Structures (s.4.3.2.6)***

Type	Number	Distance
Wing Fencing (100's m)		
Cattle Guards		
Pipeline Crossing		

**Table 11**      ***Allocated Development (SBFEP)***

Identifier	Total Cost (\$)	Applicable Volume * (m3)
N/A		
N/A		
N/A		

**Table 12**      ***Engineered Development (Attach summary recommending approval by District Engineering Staff) (s.4.3.3)***

Identifier	Project Cost (\$)	Cost Base Year	Trend Factor	Trended Total Cost	*Applicable Volume (m3)	*Applicable Cost (m3)

\*Applicable Volume: complete only when different from net cruise volume on p.2. Use applicable cost (ECE project cost divided by applicable volume) when applicable volume is used.

**Table 13**      ***Basic Silviculture (s.4.10) (attach calculation sheets)***

Treatment Regime (p.4-51)	Net Treatable Merch. Area (0.1)	Net Treatable NCBR Area (0.1)	Removal Factor
A	2.9	0.0	1.0
B	6.7	0.0	1.0
Total Area:	9.6		1.0

ROOT DISEASE CONTROL	Total Cost (\$)
Specified operation (s. 4.1.1)	N/A

(Attach sufficient data to justify cost estimate)

Cost estimate (\$/m3)  
#VALUE!





BRITISH  
COLUMBIA



# Woodlot Opening/Exhibit "A"/Cutting Permit Request Form



Woodlot #	W1761-A			Date:	02/04/19
WL Contact				MoF RA	Mary Robinson
WL Licensee:	Harry Vandenberg			MAPSHEET	936007
Address::	Box 10				
Geographic Location	Owen Lk.			FTAS Zone:	(MOF to complete)
Road Permit #		Sections		Timber Mark(s)	W1761A
				(MOF to complete)	

## Opening Number

CP	Blocks	Map Sheet	OPENING#	Comments
A	1	936007		
A	2	936007		

## Exhibit "A"

File Location	<del>C:\transfer\woodlots</del> G:\DATA\WOODLOTS
File Name CP	W1761\CPA\wdlot1761-CPA_road+block.dgn
File Name RP	

## Cutting Permit Doc.

#	Standard	Comments/Rationale	MoF
1.	File Folder: one per CP request per Doc with appropriate colour		
2.	Trappers # 609T008		
3.	Guides # Ronald Fitch 6096003		
4.	Effective Date: 02/05/23 31 Effective Term: Term Max 5 Years 02/05/23 30		
5.	Road layout and design Attach Schedule A1 and A2 if required		
6.	Additional Clauses		

## Road Permit Doc.

Road Permit #:	Sections #:	Mapheet(s):
----------------	-------------	-------------





SUBJECT: Review of W1761 CPA  
FILE NOTE:

DATE: February 12, 2002

ATTENTION:    File/ Heloise Warren-Dixon

The following are review comments for W1761 CPA Road, Block 1

*changed  
02/04/11 +  
02/04/16*

**Site Plan**

Site Plan review checklist is attached for blocks 1. Please review and make revisions.

**Appraisal**

Page 1

- changed  
02/04/11 +  
02/04/16*
- ✓ 1. Can I change the effective date to the date it will be issued? (hopefully sometime in March) *02/05/30*
  - ✓ 2. The Total Merch. Area should be 9.0 (10.3-1.3 of broods and trails and trap trees)

Page 2

- changed  
02/04/11 +  
02/04/16*
- ✓ 1. One way distance is 5kms more than the Primary Cycle time on page 5. I added it to be 66.5km.

Page 7

- changed  
02/04/11 +  
02/04/16*
- ✓ 1. I think your total road is 425m which rounds down to 400m, the 4<sup>th</sup> line must be omitted.
  - ✓ 2. Is the Licencee going to gravel the entire road at 30cm thick? I think this is unlikely and half the amount would be more appropriate.
  - ✓ 3. Under stabilizing Material, Mat Type Q-rock, you indicated "Yes". This is for rock that needs to be blasted and drilled for making stabilizing material. You stated you will use the gravel pit at Owen North and Morice Owen junction, this pit does not require blasting and drilling. Please change to "No" ..

*changed &  
signed by  
Ed Vandenberg  
letter on  
25. file.*

**Road Layout and Design**

- 1. Please submit 3 copies of a Road Layout and Design Map. You can use the Appraisal Map, please rename it Road Layout and Design for W1761 CPA Road.
- 2. Do you have a letter signed by Harry Vandenberg to sign on his behalf. If so, please submit, and if not please have Harry sign all the pages requiring a signature.

Let me know if you have any concerns with my review comments.

Mary Robinson  
R.A Woodlots





File: 19720-40/W1761A

November 8, 1999

Harry Vandenberg  
P.O. Box 10  
Houston, British Columbia  
V0J 1Z0

Dear Harry:

This letter constitutes acceptance of the cruising field work that has been completed on Cutting Permit A of Woodlot Licence 1761.

Timber types must remain as indicated on the final cruise maps as submitted for check cruising, at the time of cruise compilation.

If you have any questions or concerns, please call me at 845-6245.

Yours truly,

P.F.W.

Paul F. Wandler  
Resource Technician  
Woodlots



cc. Warren Consulting LTD, P.O. Box 1567, Houston, B.C., V0J 1Z0