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Date: October 24, 2016

To: Interior Executive Directors

From: Honourable Steve Thomson, Minister of Ministry of Forests, Lands and Natural Resource Operations

Re: Amendment No. 2 to the *Interior Appraisal Manual (IAM)*

The following sections have been amended:

Section 1.1 – Applicable Volume Definition

Housekeeping – a reference that is no longer applicable has been removed.

Table 4-7 – New Biogeoclimatic Ecosystem Classification (BEC) Units in Silviculture Cost Estimates

New BEC units released by the Forest Analysis and Inventory Branch on August 30, 2016 have been added to the silviculture cost estimates table. Units that have expired and are still included in active appraisals are indicated in the table, and are not to be used in new appraisals going forward. Several historic, expired BEC units that are no longer in use have been deleted from the table.

Section 6.1.1 and 6.1.2 – Commercial Thinning Exceptions

The new policy (July 2016) to remove the disincentive for commercial thinning is currently not applicable for Community Forest Agreements or Woodlot Licences, which is clarified in this section.

Section 6.1.2 – Pre-Harvest Waste Assessment Exceptions

The new policy (August 2016) to allow concurrent harvesting of special forest products is currently not applicable for Woodlot Licences, which is clarified in this section.

Table 6-1, 6-2, 6-4, and 6-5 – Tabular Rates Update

The regular semi-annual updates of tabular stumpage rates are included in these tables.

Section 6.3 - Road Permit Stumpage Rates

Interior Executive Directors

Housekeeping – text revised for clarity and former subsection 6 was removed as it is no longer applicable.

Appendix 3 – New BEC Units in Soil Moisture Conversion

New BEC units have been added to the soil moisture conversion table. Listings in the table for the Coast Area have been removed as well.

This amendment will come into force on November 1, 2016. Copies of the amendment and the amended IAM are available at the following link:

<http://www2.gov.bc.ca/gov/content/industry/forestry/competitive-forest-industry/timber-pricing/interior-timber-pricing/interior-appraisal-manual>

Further amendments or revisions to this manual require my approval.



Steve Thomson
Minister

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TIMBER PRICING BRANCH

Interior Appraisal Manual

Effective July 1, 2016

Cost Base of: 2014

Includes Amendments

Amendment No. 1

[Amendment No. 2](#)

Effective Date

August 1, 2016

[November 1, 2016](#)



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1 Introduction

1.1 Definitions

In this manual:

“**AAC**” means Allowable Annual Cut;

“**Act**” means *Forest Act*;

“**Agreement**” means a form of agreement granting rights to harvest Crown timber referred to in section 12 of the *Act*, or a pulpwood agreement;

“**Anniversary date**” means the annual recurrence of the month and day when the term of the cutting authority began;

“**Applicable Volume**” means:

1. Except as provided in section 2.2.1(2)(e), and subject to paragraph (2) of this definition, where the harvesting is authorized on a cutting authority area under an agreement other than a BCTS licence, the Total Net Coniferous Volume;
2. Where the cutting authority is cruise based and the deciduous timber has not been reserved, the Total Net Cruise Volume; or
3. Where the harvesting is authorized on a cutting authority area under a BCTS licence, the Total Net Cruise Volume;

“**Appraisal Data Submission (ADS)**” means the information required by the person who determines the stumpage rate to determine the stumpage rate including the forest professional’s signed submission in the form required by the director, and any other information required by the regional manager or district manager;

“**Appraisal Summary Report**” means the appraisal summary report from the cruise compilation for the cutting authority area;

“**Attack Volume**” means the volume of green, red, grey or other insect attack reported in the appraisal summary report;

“**BCTS**” means BC Timber Sales;

“**BCTS licence**” means a timber sale licence entered into under section 20 of the *Act*;

“**Billing history record**” means a record of log scale data derived from a record kept by Timber Pricing Branch of log scale data reported on stumpage invoices issued by the Timber Pricing Branch for timber scaled under section 94 of the *Act*;

“**Bonus Bid**” means a bonus bid described in section 103(1)(d) of the *Act*;

“**Bonus Offer**” means a bonus offer described in section 103(2) of the *Act*;

Where:

PCUT	=	Logging method PCUT (%)
CAPCUT	=	Cutting Authority (CA) partial cut percent
V	=	Harvest Method Volume (m ³) required to be logged by each system
Heli (C)	=	helicopter logging (clear cut)
Heli (P)	=	helicopter logging (partial cut)
Horse(C)	=	horse logging (clear cut)
GS (C)	=	ground skidding (clear cut)
GS (P)	=	ground skidding (partial cut)
OC(C)	=	overhead cable logging (clear cut)
OC(P)	=	overhead cable logging (partial cut)
SK(C)	=	skyline logging (clear cut)

4.5.1 Root Disease Control

1. Costs for root disease control may only be included in the calculation of the TOA when the treatment is based on a field assessment and signed by a qualified professional.
2. The cost estimates are determined on the basis of information at hand using the procedures approved by the region or Timber Pricing Branch.

4.5.2 Total Silviculture Cost Estimate

Total Silviculture (\$/m³) =

$$\text{Basic Silviculture (\$/m}^3\text{)} + \frac{\text{Root Disease Control (\$)}}{\text{ATNCV or TNCRV (m}^3\text{)}^1}$$

¹ For scale based CAs, use ATNCV. For cruise based CAs use TNCRV.

Table 4-7: BEC Silviculture Cost Estimates

The dollar per hectare (\$/ha) cost estimates are net of overhead.

BEC Unit	\$/ha	BEC Unit	\$/ha	BEC Unit	\$/ha
BWBS(un)	1199	ESSFdk4*	1067*	ESSFxc1	1005
BWBSdk	1199	ESSFdm	1082	ESSFxcv1	397
BWBSdk1	1199	ESSFdv	1082	ESSFxcv2	397
BWBSdk2	1199	ESSFdvp	1082	ICH(un)	1549
BWBSmk	1199	ESSFmc	898	ICHdk	1549
BWBSmw	1243	ESSFmh	1692	ICHdm	1549
BWBSmw1	1256	ESSFmk	1082	ICHdw	1398
BWBSmw2	1243	ESSFmm1	1082	ICHdw1	1699
BWBSvk	1199	ESSFmm2	1082	ICHdw2	1540
BWBSwk1	1089	ESSFmv1	679	ICHdw4	1692
BWBSwk2	1138	ESSFmv2	1048	ICHmc1	739
BWBSwk3	1138	ESSFmv3	903	ICHmc2	739
CWH(un)	695	ESSFmv4	859	ICHmk1	1066
CWHvh1	695	ESSFmw	1044	ICHmk2	1245
CWHvh2	695	ESSFvc	3365	ICHmk3	1180
CWHvm	695	ESSFvv	1082	ICHmm	1549
CWHvm1	695	ESSFwc1	1889	ICHmw1	1657
CWHvm2	695	ESSFwc2	1406	ICHmw2	1692
CWHvm3	695	ESSFwc3	1452	ICHmw3	1561
CWHwh1	695	ESSFwc4	1575	ICHmw4	1692
CWHwh2	695	ESSFwh1	1889	ICHmw5	1692
CWHwm	695	ESSFwh2	2021	ICHvc	1549
CWHws1	694	ESSFwh3	1889	ICHvk1	3250
CWHws2	643	ESSFwk1	1273	ICHvk2	2971
CWHxm1	695	ESSFwk2	1123	ICHwc	1549
CWHxm2	695	ESSFwm	2021	ICHwk1	2343
ESSF(un)	1082	ESSFwm2	2021	ICHwk2	1185
ESSFdc1	1136	ESSFwm3	1575	ICHwk3	2183
ESSFdc2	1108	ESSFwm4	1082	ICHwk4	2183
ESSFdk	1067	ESSFwv	1082	ICHxw	1549
ESSFdk1	1067	ESSFxc	1005	IDF(un)	794

IDFdc	794
IDFdk*	735*
IDFdk1	1042
IDFdk2	1054
IDFdk3	584
IDFdk4	508
IDFdm1	1033
IDFdm2	544
IDFdw	794
IDFmw1	1556
IDFmw2	1461
IDFww	794
IDFhx1	1093
IDFhx2	1093
IDFhx4	1093
IDFxm	794
IDFwx	794
MH(un)	1561
MHmm2	1561
MS(un)	748
MSdc1	1015
MSdc2	1015

MSdk	906
MSdk1	906
MSdk4*	906*
MSdm1	876
MSdm2	963
MSdv	748
MSxk	764
MSxk1	761
MSxk2	761
MSxv	397
PP(un)	72
PPdh1	72
PPdh2	72
PPxh1	72
PPxh2	72
SBPS(un)	510
SBPSdc	571
SBPSmc	584
SBPSmk	568
SBPSxc	277
SBS(un)	870
SBSdh1	870

SBSdh2	870
SBSdk	904
SBSdw1	986
SBSdw2	746
SBSdw3	793
SBSmc1	1008
SBSmc2	803
SBSmc3	654
SBSmh	870
SBSmk1	838
SBSmk2	801
SBSmm	913
SBSmw	1030
SBSvk	1471
SBSwk1	1117
SBSwk2	1102
SBSwk3	968
SWB(un)	1197
SWBmk	1197
SWBmks	1197
SWBvk	1197
SWBvks	1197

* Indicates BEC units that have expired and are not to be included in appraisals submitted after October 31, 2016. Reference applicable Land Management Handbook crosswalk tables where necessary.

4.6 Low Grade Percent Adjustment

1. The POA low grade percent adjustment by timber species as shown in Tables 4-8 and 4-9 must be used in the calculation of the tenure obligation adjustment to account for the timber that is priced at the statutory rate.
2. The low grade percent adjustment for each timber species to be used in the appraisal or reappraisal of the cutting authority area must be the percent adjustment by timber species by the POA to which the cutting authority area is appraised. Where the Total Net Coniferous Volume of timber on the cutting authority area is comprised of 35% or greater red and grey Mountain Pine Beetle (MPB) attacked Lodgepole pine, the adjustment from Table 4-9 is used. For cutting authorities with less than 35% red and grey MPB attacked Lodgepole pine, the adjustment is used from Table 4-8.
3. The low grade percent adjustment to be used in the calculation of the tenure obligation adjustment for a cutting authority area being appraised or reappraised is the sum of the products of the net coniferous cruise volume of each timber species in the cutting authority area multiplied by the low grade percent adjustment for that species, divided by the Total Net Coniferous Volume on the cutting authority area.
4. The low grade percent adjustment does not apply to cruise based cutting authorities.

6 Miscellaneous Policies

6.1 Coniferous Average Sawlog Stumpage Rates by Forest Zone and Species

1. Each of the following forest zones referred to in Tables 6-1, 6-2, 6-4, 6-5 and 6-6 is made up of the following forest districts and or geographic units:
 - a. North Central Zone - Fort St. James, Mackenzie, Nadina, Prince George (less Robson Valley TSA), Quesnel and Vanderhoof.
 - b. North East Zone - Fort Nelson and Peace.
 - c. North West Zone - Coast Mountain (excluding that portion that lies geographically within the North Coast Timber Supply Area), Skeena Stikine.
 - d. South Central Zone – Williams Lake TSA Blocks A, B, C, D, E & I.
 - e. South East Zone - Okanagan Shuswap, Rocky Mountain, Selkirk, and Thompson Rivers (plus Robson Valley TSA).
 - f. South West Zone - 100 Mile House, Cascades, and Williams Lake TSA Blocks F, G, H, and J to N.
2. Where a species of coniferous timber is not listed in Table 6-1, 6-2, 6-4 and 6-5, the rate that must be used for that species of timber is the rate listed in the column headed as OTHER.

Table 6-1: Coniferous Average Sawlog Stumpage Rates in \$/m³ by Forest Zone and Species

FOREST ZONE	BALSAM	CEDAR	FIR	HEMLOCK	LARCH	L. PINE	SPRUCE	W. PINE	Y. PINE	OTHER ¹
North Central	16.01	-	26.54	19.06	-	13.79	18.92	-	-	17.55
North East	4.15	-	-	-	-	4.98	4.32	-	-	4.50
North West	5.20	7.93	-	5.23	-	8.37	7.92	-	-	6.75
South Central	3.15	-	4.32	-	-	3.61	2.85	-	-	3.51
South East	14.68	20.30	19.06	14.56	18.02	16.69	15.80	15.82	18.04	17.11
South West	17.97	8.20	19.19	13.22	23.69	20.80	18.46	17.17	-	19.30

¹ Average for the Forest Zone

6.1.1 Community Forest Agreements

1. The sawlog stumpage rate for each species of coniferous timber harvested under any cutting authority issued under a Community Forest Agreement is the rate prescribed in Table 6-2 for the forest zone in which the cutting authority area is located.
2. Section 1.4(1)(d), sections 6.1.2 through 6.5, [commercial thinning in section 6.6](#), and sections 6.7 through 6.9 do not apply to Community Forest Agreement cutting authorities.
3. The stumpage rate determined under this section is redetermined on August 1 of each year in accordance with this section.

6.1.2 Woodlot Licences

1. Except as provided in subsection (2) of this section, the sawlog stumpage rate for each species of coniferous timber harvested under a cutting permit issued for a woodlot licence with an effective date after November 30, 2008 is the rate prescribed in Table 6-2 for the forest zone in which the cutting authority area is located.
2. Where a woodlot licence cutting permit has been issued with an effective date after November 30, 2008 for the purpose of using amounts from an eligible extended road amortization agreement in an appraisal, then the stumpage rate will be determined using the procedures in this manual excluding this section.
3. Except as provided in subsection (4) of this section, the sawlog stumpage rate for coniferous timber harvested under a road permit issued for a woodlot licence is the rate prescribed in Table 6-2 for the forest zone in which the timber mark applies.
4. Where a woodlot has an eligible extended road amortization agreement before December 1, 2008 the sawlog stumpage rate for a road permit with an effective date on or after December 1, 2008 is calculated using the procedures in section 6.3.
5. The sawlog stumpage rate for each species of coniferous timber harvested under a blanket salvage cutting authority issued for a woodlot licence is the rate prescribed in Table 6-2 for the forest zone in which the blanket salvage cutting authority applies.
6. The stumpage rate determined under subsections (1), (3) and (5) of this section is redetermined on August 1, each year in accordance with this section.
7. Except as provided in subsections (2) and (4) of this section, sections 1.4(1)(d), 6.1.1, 6.1.3 through 6.5, [commercial thinning and Pre-harvest Waste Assessment in section 6.6](#), and sections 6.7 through 6.9 do not apply to Woodlot Licence cutting authorities.

Table 6-2: Community Forest Agreements and Woodlot Licences: Coniferous Average Sawlog Stumpage Rates in \$/m³

FOREST ZONE	BALSAM	CEDAR	FIR	HEMLOCK	LARCH	L. PINE	SPRUCE	W. PINE	Y. PINE	OTHER ¹
North Central	2.40	-	3.98	2.86	-	2.07	2.84	-	-	2.63
North East	0.62	-	-	-	-	0.75	0.65	-	-	0.68
North West	0.78	1.19	-	0.78	-	1.26	1.19	-	-	1.01
South Central	0.47	-	0.65	-	-	0.54	0.43	-	-	0.53
South East	2.20	3.05	2.86	2.18	2.70	2.50	2.37	2.37	2.71	2.57
South West	2.70	1.23	2.88	1.98	3.55	3.12	2.77	2.58	-	2.89

¹ Average for the Forest Zone

6.1.3 Incidental Conifer in Deciduous Leading Stands

1. Except as provided in section 5.1.1(6), this section applies to coniferous timber in a cutting authority area where the total estimated volume of all deciduous species to be harvested is greater than 70% of the total estimated volume of all species to be harvested.
2.
 - a. The stumpage rate for coniferous timber is the rate prescribed in Table 6-3 for the smaller of the area of the forest district/district portion, timber supply area, region, or Area in which the entire cutting authority area for the tenure is located.
 - b. Where the Crown is responsible for basic silviculture on the cutting authority area, the stumpage rate for each species of coniferous timber must be the sum of the rate determined under paragraph (a) of this subsection and the silviculture levy determined under section 5.3.
3. A stumpage rate determined under subsection 2 must be redetermined on June 1, of each year in accordance with this section.
4. Notwithstanding subsection (2) in this section, the stumpage rate may be determined through a full appraisal in accordance with chapters 1, 2, 3, 4, and 5.
5.
 - a. In this section the area of a forest district or the area of a timber supply area does not include the area of a park located within that district or timber supply area.
 - b. In this section the area of a Tree Farm Licence will be included in the area of the district or timber supply area in which it is geographically located.

- iii. For the purpose of utilizing post-harvest material in piles on landings or at roadside after a waste assessment has been made.

Then, the upset stumpage rate must be the rate approved by the Regional Manager.

- b. Where the invitation for applications for a forestry licence to cut awarded to the highest bidder referred to in paragraph (1)(a) of this subsection requires a bonus offer, and the amount of stumpage payable will be based on a cruise instead of a scale of the timber under section 106 of the *Act*, the upset stumpage rate must be the rate approved by the Regional Manager, and must apply to the net merchantable volume on the cutting authority area.
 - c. Where the forestry licence to cut is issued without competition for the purposes described in paragraph (1)(a)(i) of this section the sawlog stumpage rate for such species of coniferous timber must be:
 - i. Except as provided in (ii), the stumpage rate in Table 6-1 for the forest zone in which the cutting authority area is located.
 - ii. If more than one-third of the total volume of coniferous timber on the cutting authority area is damaged timber as defined in section 6.4(3), the stumpage rate in Table 6-4 for the forest zone in which the cutting authority area is located.
 - iii. When the licence to cut is issued to the lowest eligible bidder on a contract issued for the purpose referred to in paragraph (1)(a)(i) of this subsection, the stumpage rate determined from the applicable paragraph (c)(i) or (c)(ii) above.
 - d. Where the forestry licence to cut is issued without competition meets the requirements set out in paragraph (1)(a)(ii) of this section, the coniferous sawlog stumpage rate must be \$1.20/m³ when the licence to cut is issued to the lowest eligible bidder on a contract issued for the purpose referred to in paragraph (1)(a)(ii).
 - e. Notwithstanding any paragraph in this subsection when the timber on the cutting authority area will be scaled as chips or hogged tree material the reserve stumpage rate must be the rate from Table 6-7.
2. An upset stumpage rate determined under this section must be calculated using the *Interior Appraisal Manual* in effect on the date that the rate is determined and must not be less than the district's variable cost to prepare the timber for sale as calculated by the district manager.
 3. Notwithstanding subsections 1(c) or (d) the stumpage rate for the forestry licence to cut may be determined through a full appraisal in accordance with chapters 1, 2, 3, 4 and 5. The cruise data that is used in the appraisal may be from the cruise of a comparable cutting authority as per section 1.5.1.1.
 4. Except as provided in section 2.2.2, when the upset stumpage rate or stumpage rate is determined under this section, the total stumpage rate is fixed for the term of the cutting authority and all extensions.

6.3 Road Permit Stumpage Rates

1. a. In this section the area of a forest district or the area of a timber supply area does not include the area of a park located within that district or timber supply area.
 - b. In this section the area of a Tree Farm Licence will be included in the area of the district or timber supply area in which it is geographically located.
2. This section does not apply to Community Forest Agreements in section 6.1.1, Woodlots Licences in section 6.1.2 except 6.1.2(4), or any timber in the Research Forests noted in Table 6-7.
3. A stumpage rate determined under this section, other than for a road permit for a BCTS licence under subsection (6), must be re-determined annually on June 1st in accordance with this section.
4. Except as provided in subsection (6)(b), stumpage rates determined under this section are scale based for billing.
5. Except as provided in subsection (6) of this section, the stumpage rate for a road permit must be the stumpage rate:
 - a. from the table of licence average rates by district provided to the regional Area by Timber Pricing Branch if there is a minimum positive scale based billed volume of 500 m³ of coniferous sawlogs from which the weighted average sawlog stumpage rate may be determined, or
 - b. where a rate under (a) is not available, the stumpage rate is that prescribed in Table 6-3 for the smaller area of the forest district/district portion, timber supply area, region, or Area in which the entire cutting authority area for the tenure is located.
6. a. The total stumpage rate (\$/m³) for a road permit granted to the holder of a scale based timber sale licence entered into under section 20 of the Act must be the same as the total stumpage rate (\$/m³) for the timber sale licence which entitled the holder to apply for the road permit.
 - b. The total stumpage rate (\$/ha) for a road permit granted to the holder of a cruise based timber sale licence entered into under section 20 of the Act must be the same as the total stumpage rate (\$/ha) of the timber sale licence which entitled the holder to apply for the road permit.

7. Where a woodlot has an eligible extended road amortization agreement before December 1, 2008 the sawlog stumpage rate for a road permit with an effective date on or after December 1, 2008 is calculated using the procedures in this section.

Table 6-3: Coniferous Average Sawlog Stumpage Rates by Smallest Geographic Unit

TSA is Smallest Geographic Unit			
District	Rate (\$/m ³)	TSA	Rate (\$/m ³)
Cascades	18.78	Lillooet	8.49
		Merritt	21.13
Coast Mountain (excluding North Coast Timber Supply Area)	0.75	Cascadia Blks 9,10,11	0.41
		Kalum	0.41
		Nass	1.24
		Pacific Blks 28A,28B	0.41
Nadina	11.85	Lakes	11.85
		Morice	11.85
Peace	4.86	Dawson Creek	5.54
		Fort St John	3.88
Prince George	22.62	Robson Valley	5.50
Quesnel	15.75	Cascadia Blks 5,6,7,8	15.75
		Quesnel	15.75
Rocky Mountain	15.80	Cranbrook	14.88
		Invermere	16.34
Selkirk	13.91	Arrow	16.00
		Boundary	13.36
		Cascadia Blks 1,2,3	16.00
		Cascadia Blk. 4	9.23
		Golden	11.68
		Kootenay Lake	14.61
		Revelstoke	9.23
Skeena Stikine	7.17	Bulkley	6.76
		Cassiar	1.35
		Kispiox	11.90

District/District Portion is Smallest Unit			
TSA	Rate (\$/m ³)	District/District Portion	Rate (\$/m ³)
Prince George	23.13	Fort St. James	19.71
		Vanderhoof	14.44
Williams Lake	16.40	Cariboo Chilcotin	16.40
		Williams Lake TSA Blks, A, B, C, D, E & I	2.53

District & TSA are the same		
District	TSA	Rate (\$/m ³)
*Fort Nelson	Fort Nelson	4.86
Mackenzie	Mackenzie	14.14
Okanagan Shuswap	Okanagan	16.67
Thompson Rivers	Kamloops	19.44
100 Mile House	100 Mile House	8.70

*Regional rate

Region is Smallest Unit			
Area	Rate (\$/m ³)	Region	Rate (\$/m ³)
North	14.05	Northeast	4.86
		Omenica	19.81
		Skeena	8.72
South	16.37	Cariboo	14.88
		Kootenay Boundary	14.61
		Thompson-Okanagan	17.92

6.4 Salvage Timber Stumpage Rates

6.4.1 Post-Harvest Material or Damaged Timber

1. This section applies to cutting authorities issued under licences which do not have an allowable annual cut.
2. Post-Harvest Material is defined as:
 - a. wooden culverts and bridges, or
 - b. post logging residue.
3. Damaged Timber is defined as:
 - a. Trees that are dead or damaged as a result of wind, fire, snow press, drought, landslide, flooding; or
 - b. Trees as a result of the effects of forest pests or disease that are dead; or
 - c. Trees that require management and control of insect infestation or will die within one year (sanitation timber salvage), as determined by the district manager.
4. Except as provided in section 6.2.1(1)(c)(ii), the criteria and methodology for the calculation of salvaged timber stumpage rates are:
 - a. Post-harvest material may not be combined in the same cutting authority area with damaged timber.
 - b. Except where damage to adjacent or contiguous timber occurs after harvesting is completed on the adjacent primary logging cutting permit area and the harvesting equipment has been demobilized from the area, damaged timber salvage cutting authority areas must be scattered, and not be adjacent to or contiguous with an existing cutting authority area.
 - c. Cut block(s) must be less than or equal to 5 hectares in size; (unless the silviculture system used on the cut block is other than clear cutting, and at the completion of harvest the trees retained on the harvested area conform to the specifications in the Chief Forester's Reference Guide for Forest Development Plan Stocking Standards for the applicable silviculture system).
 - d. Salvage logging stumpage rates may only be determined for a cutting authority where more than one-third of the total estimated volume of coniferous timber to be harvested in the cutting authority area is damaged timber.
 - e. Post-Harvest Material salvage may only occur after primary logging has been satisfactorily completed and residue and waste assessments have been submitted to and accepted by the Ministry.

- f. Salvage cannot occur on a road right-of-way which has an active timber mark associated with it.
 - g. Except as provided in section 2.2.2, a stumpage rate determined under this section is fixed for the term of the cutting authority and all extensions.
5. a. The Damaged Timber sawlog stumpage rate for each species of coniferous timber is the rate in Table 6-4 for the Forest Zone in which the cutting authority area is located.
 - b. Where the Crown is responsible for basic silviculture on the cutting authority area, the stumpage rate for each species of coniferous timber must be the sum of the rate determined under paragraph (a) of this subsection and the silviculture levy determined under section 5.3.
 - c. Notwithstanding paragraph (a), the stumpage rate for Damaged Timber may be determined through a full appraisal in accordance with chapters 1, 2, 3, 4 and 5.
 6. The Post-Harvest Material sawlog stumpage rate for each species of coniferous timber is the rate in Table 6-5 for the forest zone in which the cutting authority area is located.

Table 6-4: Coniferous Average Sawlog Stumpage Rates for Salvage of Damaged Timber by Forest Zone and Species in \$/m³

FOREST ZONE	BALSAM	CEDAR	FIR	HEMLOCK	LARCH	L. PINE	SPRUCE	W. PINE	Y. PINE	OTHER ¹
North Central	9.60	-	23.89	11.43	-	10.34	17.03	-	-	10.53
North East	2.49	-	-	-	-	3.73	3.89	-	-	2.70
North West	3.12	7.13	-	3.14	-	6.28	7.13	-	-	4.05
South Central	1.89	-	3.89	-	-	2.71	2.57	-	-	2.11
South East	8.81	18.27	17.15	8.74	16.22	12.52	14.22	11.87	13.53	10.27
South West	10.78	7.38	17.27	7.93	21.33	15.60	16.62	12.88	-	11.58

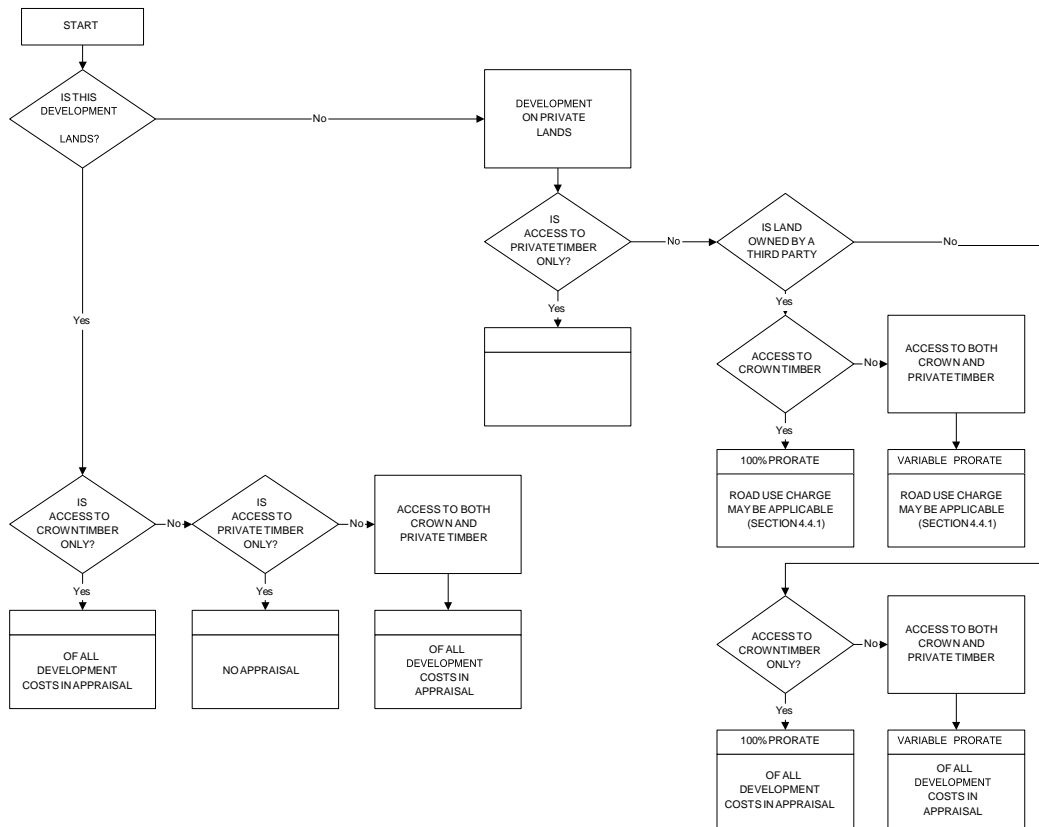
¹ Average for the Forest Zone

Table 6-5: Coniferous Average Sawlog Stumpage Rates for Salvage of Post-Harvest Material by Forest Zone and Species in \$/m³

FOREST ZONE	BALSAM	CEDAR	FIR	HEMLOCK	LARCH	L. PINE	SPRUCE	W. PINE	Y. PINE	OTHER ¹
North Central	4.00	-	13.27	4.76	-	6.89	9.46	-	-	3.51
North East	1.04	-	-	-	-	2.49	2.16	-	-	0.90
North West	1.30	6.34	-	1.31	-	4.19	3.96	-	-	1.35
South Central	0.79	-	2.16	-	-	1.81	1.43	-	-	0.70
South East	3.67	16.24	9.53	3.64	9.01	8.34	7.90	7.91	9.02	3.42
South West	4.49	6.56	9.60	3.31	11.85	10.40	9.23	8.58	-	3.86

¹ Average for the Forest Zone

Appendix II Development Cost Proration



Crown Timber = Appraised timber including appraised Timber Licences

Private Timber = Non-appraised timber

Variable Prorate = A tributary-volume type prorate between appraised and non-appraised timber

Appendix III Relative Soil Moisture to Absolute Soil Moisture Conversion Table

Area	BEC Zone	Subzone	Relative Soil Moisture Regime Class (from field guide)							
			0	1	2	3	4	5	6	7
SOUTH	BG	xh1	ED	ED	ED	ED	ED	SD	M	W
SOUTH	BG	xh2	ED	ED	ED	ED	ED	SD	M	W
SOUTH	BG	xh3	ED	ED	ED	ED	ED	SD	M	W
SOUTH	BG	xw1	ED	ED	ED	ED	ED	SD	M	W
SOUTH	BG	xw2	ED	ED	ED	ED	ED	SD	M	W
SOUTH	ESSF	dc1	VD	MD	MD	SD	SD/F	M	VM	W
SOUTH	ESSF	dc2	VD	MD	MD	SD	SD/F	M	VM	W
SOUTH	ESSF	dk	VD	MD	MD	SD	SD/F	M	VM	W
SOUTH	ESSF	dv	VD	MD	MD	SD	SD/F	M	VM	W
<u>SOUTH</u>	<u>ESSF</u>	<u>mh</u>	<u>VD</u>	<u>MD</u>	<u>MD</u>	<u>SD</u>	<u>F</u>	<u>M</u>	<u>VM</u>	<u>W</u>
SOUTH	ESSF	mw	VD	MD	MD	SD	F	M	VM	W
SOUTH	ESSF	vc	MD	SD	SD	F	M	VM	VM	W
SOUTH	ESSF	vv	MD	SD	SD	F	M	VM	VM	W
SOUTH	ESSF	wc1	MD	MD	SD	F	M	M	VM	W
SOUTH	ESSF	wc2	MD	MD	SD	F	M	M	VM	W
SOUTH	ESSF	wc3	MD	MD	SD	F	M	M	VM	W
SOUTH	ESSF	wc4	MD	MD	SD	F	M	M	VM	W
<u>SOUTH</u>	<u>ESSF</u>	<u>wh1</u>	<u>MD</u>	<u>MD</u>	<u>SD</u>	<u>F</u>	<u>F</u>	<u>M</u>	<u>VM</u>	<u>W</u>
<u>SOUTH</u>	<u>ESSF</u>	<u>wh2</u>	<u>MD</u>	<u>MD</u>	<u>SD</u>	<u>SD/F</u>	<u>F</u>	<u>M</u>	<u>VM</u>	<u>W</u>
<u>SOUTH</u>	<u>ESSF</u>	<u>wh3</u>	<u>MD</u>	<u>MD</u>	<u>SD</u>	<u>F</u>	<u>F</u>	<u>M</u>	<u>VM</u>	<u>W</u>
SOUTH	ESSF	wk1	MD	MD	SD	F	M	M	VM	W
SOUTH	ESSF	wm	MD	MD	SD	F	F	M	VM	W
<u>SOUTH</u>	<u>ESSF</u>	<u>wm2</u>	<u>MD</u>	<u>MD</u>	<u>SD</u>	<u>F</u>	<u>F</u>	<u>M</u>	<u>VM</u>	<u>W</u>
<u>SOUTH</u>	<u>ESSF</u>	<u>wm3</u>	<u>MD</u>	<u>MD</u>	<u>SD</u>	<u>F</u>	<u>F</u>	<u>M</u>	<u>VM</u>	<u>W</u>
<u>SOUTH</u>	<u>ESSF</u>	<u>wm4</u>	<u>MD</u>	<u>MD</u>	<u>SD</u>	<u>SD</u>	<u>F</u>	<u>M</u>	<u>VM</u>	<u>W</u>
SOUTH	ESSF	xc	VD	VD	MD	MD	SD	M	VM	W
SOUTH	ESSF	xv	VD	VD	MD	MD	SD	F	M	W
SOUTH	ICH	dk	VD	VD	VD	MD	SD	M	VM	W
SOUTH	ICH	dw1	VD	VD	MD	SD	F	M	VM	W
SOUTH	ICH	dw2	ED	ED	VD	MD	SD	M	VM	W
<u>SOUTH</u>	<u>ICH</u>	<u>dw4</u>	<u>ED</u>	<u>VD</u>	<u>MD</u>	<u>MD</u>	<u>SD</u>	<u>F</u>	<u>M</u>	<u>VM</u>
SOUTH	ICH	mk1	VD	MD	MD	SD	F	M	VM	W

Area	BEC Zone	Subzone	Relative Soil Moisture Regime Class (from field guide)							
			0	1	2	3	4	5	6	7
SOUTH	ICH	mk2	VD	MD	MD	SD	F	M	VM	W
SOUTH	ICH	mk3	VD	MD	MD	SD	F	M	VM	W
SOUTH	ICH	mw1	VD	MD	MD	SD	F	M	VM	W
SOUTH	ICH	mw2	VD	MD	MD	SD	F	M	VM	W
SOUTH	ICH	mw3	VD	MD	MD	SD	F	M	VM	W
<u>SOUTH</u>	<u>ICH</u>	<u>mw4</u>	<u>VD</u>	<u>MD</u>	<u>MD</u>	<u>SD</u>	<u>F</u>	<u>M</u>	<u>VM</u>	<u>VM</u>
<u>SOUTH</u>	<u>ICH</u>	<u>mw5</u>	<u>VD</u>	<u>MD</u>	<u>MD</u>	<u>SD</u>	<u>F</u>	<u>M</u>	<u>VM</u>	<u>W</u>
SOUTH	ICH	vk1	MD	MD	SD	F	M	M	VM	W
SOUTH	ICH	wk1	VD	MD	SD	F	F	M	VM	W
SOUTH	ICH	wk2	VD	MD	SD	F	F	M	VM	W
SOUTH	ICH	wk4	VD	MD	SD	F	F	M	VM	W
SOUTH	ICH	xw	VD	VD	VD	MD	SD	M	VM	W
SOUTH	IDF	dk1	ED	VD	VD	VD	MD	F	M	W
SOUTH	IDF	dk2	ED	VD	VD	VD	MD	F	M	W
SOUTH	IDF	dk3	ED	VD	VD	VD	MD	F	M	W
SOUTH	IDF	dk4	ED	VD	VD	VD	MD	F	M	W
SOUTH	IDF	dm1	ED	VD	VD	VD	MD	F	M	W
SOUTH	IDF	dm2	ED	VD	VD	VD	MD	F	M	W
SOUTH	IDF	mw1	VD	VD	VD	MD	SD	F	VM	W
SOUTH	IDF	mw2	VD	VD	VD	MD	SD	F	VM	W
SOUTH	IDF	u	ED	VD	VD	MD	MD	F	VM	W
SOUTH	IDF	ww	VD	VD	VD	MD	SD	F	M	W
SOUTH	IDF	xh1	ED	ED	VD	VD	MD	SD	M	W
SOUTH	IDF	xh2	ED	ED	VD	VD	MD	SD	M	W
SOUTH	IDF	xm	ED	ED	VD	VD	MD	SD	M	W
SOUTH	IDF	xw	ED	ED	VD	VD	MD	SD	M	W
SOUTH	MS	dc	VD	VD	VD	MD	SD	M	VM	W
SOUTH	MS	dk	VD	VD	VD	MD	SD	M	VM	W
SOUTH	MS	dm1	VD	VD	VD	MD	SD	M	VM	W
SOUTH	MS	dm2	VD	VD	VD	MD	SD	M	VM	W
SOUTH	MS	xk	VD	VD	VD	VD	MD	F	M	W
SOUTH	MS	xv	VD	VD	VD	MD	SD	F	VM	W
SOUTH	PP	dh1	ED	ED	ED	VD	VD	SD	M	W
SOUTH	PP	dh2	ED	ED	ED	VD	VD	SD	M	W

Area	BEC Zone	Subzone	Relative Soil Moisture Regime Class (from field guide)							
			0	1	2	3	4	5	6	7
SOUTH	PP	xh1	ED	ED	ED	ED	VD	SD	M	W
SOUTH	PP	xh2	ED	ED	ED	ED	VD	SD	M	W
SOUTH	SBPS	dc	ED	ED	VD	MD	SD	F	M-VM	W
SOUTH	SBPS	mc	VD	VD	VD	MD	SD	F	M-VM	W
SOUTH	SBPS	mk	ED	VD	VD	MD	SD	F	M-VM	W
SOUTH	SBPS	xc	ED	ED	VD	VD	MD	SD	M	W
SOUTH	SBS	dw1	VD	MD	MD	SD	SD	F	M	W
SOUTH	SBS	dw2	VD	MD	MD	SD	SD	F	M	W
SOUTH	SBS	mc1	VD	MD	MD	SD	F	M	VM	W
SOUTH	SBS	mc2	VD	MD	MD	SD	F	M	VM	W
SOUTH	SBS	mh	VD	MD	MD	SD	SD	M	VM	W
SOUTH	SBS	mm	VD	MD	MD	SD	F	M	VM	W
SOUTH	SBS	mw	VD	MD	MD	SD	F	M	VM	W
SOUTH	SBS	wk1	VD	MD	SD	F	F	M	VM	W
NORTH	BWBS	dk	VD	MD	MD	SD	F	M	VM	W
NORTH	BWBS	mk	VD	MD	MD	SD	F	M	VM	W
NORTH	BWBS	mw	VD	MD	MD	SD	F	M	VM	W
NORTH	BWBS	wk1	VD	MD	SD	SD	F	M	VM	W
NORTH	BWBS	wk2	VD	MD	SD	SD	F	M	VM	W
NORTH	BWBS	wk3	VD	MD	SD	SD	F	M	VM	W
NORTH	CWH	vh2	SD	SD	F	F	M	VM	W	W
NORTH	CWH	vm1	MD	SD	SD	F	F	M	VM	W
NORTH	CWH	vm2	MD	SD	SD	F	F	M	VM	W
NORTH	CWH	wm	SD	SD	SD	F	F	M	VM	W
NORTH	CWH	ws1	VD	MD	MD	SD	F	M	VM	W
NORTH	CWH	ws2	VD	MD	MD	SD	F	M	VM	W
NORTH	ESSF	mc	VD	MD	SD	SD	F	M	VM	W
NORTH	ESSF	mk1	VD	MD	MD	SD	F	M	VM	W
NORTH	ESSF	mm1	VD	MD	MD	SD	F	M	VM	W
NORTH	ESSF	mv1	VD	MD	SD	SD	F	M	VM	W
NORTH	ESSF	mv2	VD	MD	SD	SD	F	M	VM	W
NORTH	ESSF	mv3	VD	MD	SD	SD	F	M	VM	W
NORTH	ESSF	mv4	VD	MD	SD	SD	F	M	VM	W
NORTH	ESSF	wc2	MD	MD	SD	F	M	M	VM	W
NORTH	ESSF	wc3	MD	MD	SD	F	M	M	VM	W

Area	BEC Zone	Subzone	Relative Soil Moisture Regime Class (from field guide)							
			0	1	2	3	4	5	6	7
NORTH	ESSF	wk1	MD	MD	SD	F	M	M	VM	W
NORTH	ESSF	wk2	MD	MD	SD	F	M	M	VM	W
NORTH	ESSF	wv	MD	SD	SD	F	F	M	VM	W
NORTH	ICH	mc1	VD	MD	SD	SD	F	M	MV	W
NORTH	ICH	mc1a	VD	MD	SD	SD	F	M	MV	W
NORTH	ICH	mc2	VD	MD	SD	SD	F	M	MV	W
NORTH	ICH	mm	VD	MD	MD	SD	F	M	VM	W
NORTH	ICH	vc	MD	SD	SD	F	M	M	VM	W
NORTH	ICH	vk2	MD	SD	SD	F	M	M	VM	W
NORTH	ICH	wc	MD	MD	SD	F	F	M	VM	W
NORTH	ICH	wk1	VD	MD	SD	F	F	M	VM	W
NORTH	ICH	wk3	VD	MD	SD	F	F	M	VM	W
NORTH	ICH	wk4	VD	MD	SD	F	F	M	VM	W
NORTH	MH	mm1	SD	SD	F	F	F	M	VM	W
NORTH	MH	mm2	SD	SD	F	F	F	M	VM	W
NORTH	MH	wh	SD	SD	F	F	F	M	VM	W
NORTH	SBPS	mc	VD	VD	VD	MD	SD	F	M-VM	W
NORTH	SBS	dh	VD	MD	MD	SD	SD	F	M	W
NORTH	SBS	dk	VD	MD	MD	SD	SD	F	M-VM	W
NORTH	SBS	dw1	VD	MD	MD	SD	SD	F	M	W
NORTH	SBS	dw3	VD	MD	MD	SD	SD	F	M	W
NORTH	SBS	dw3	VD	MD	MD	SD	SD	F	M	W
NORTH	SBS	mc2	VD	MD	MD	SD	F	M	VM	W
NORTH	SBS	mc3	VD	MD	MD	SD	F	M	VM	W
NORTH	SBS	mh	VD	MD	MD	SD	SD	M	VM	W
NORTH	SBS	mk1	VD	MD	MD	SD	F	M	VM	W
NORTH	SBS	mk2	VD	MD	MD	SD	F	M	VM	W
NORTH	SBS	mw	VD	MD	MD	SD	F	M	VM	W
NORTH	SBS	vk	MD	SD	SD	F	M	M	VM	W
NORTH	SBS	wk1	VD	MD	SD	F	F	M	VM	W
NORTH	SBS	wk2	VD	MD	SD	F	F	M	VM	W
NORTH	SBS	wk3	VD	MD	SD	F	F	M	VM	W

NOTES:

- ED = Extremely (0, extreme xeric)
- VD = Very Dry (1, xeric)
- MD = Moderately Dry (2, sub-xeric)
- SD = Slightly Dry (3, sub-mesic)
- F = Fresh (4, mesic)
- M = Moist (5, sub-hygic)
- VM = Very Moist (6, hygic)
- W = Wet (7, sub-hydric)

Absolute Soil Moisture	Soil Moisture Code
ED, VD, or MD	D-Dry
SD or F	M-Moist
M, VM or W	W-Wet

Appendix IV Appraisal Map Content

The map(s) submitted with the appraisal data submission must be at a scale of 1:5000 or 1:10000. Additional maps at other scales may be included as required. At a minimum the map(s) must indicate the following information:

- a. Cutting authority boundaries.
- b. Delineation of retention or reserved areas within the cutting authority.
- c. Delineation of biogeoclimatic zone, subzone and variant areas.
- d. Delineation of areas by harvest method (ground, cable, or helicopter, etc.) and clear cut or partial cut (as defined in the IAM).
- e. Delineation of areas that are the subject of cost estimates (e.g. root disease control).
- f. Delineation of the cutting authority area forming the polygon referred to in section 1.4 (1) (d); unless the distance between the furthest boundaries of the furthest cutblocks is less than 10 km.
- g. The geographic centre point of each cutblock and common junction of the permit.
- h. Existing roads.
- i. Roads to be built by type (long term, short term) and by section, as submitted in the ADS, including sections to be gravelled and or sections that are “wet” (as defined in this manual).
- j. Location of roads/structures that are included in detailed engineered estimates.
- k. Location and type of other development such as remedial fencing, cattleguards and pipeline crossings.
- l. Map Scale indicated using a graphic bar scale.

The appraisal map may include other information considered relevant to the appraisal, and must be attached to the appraisal data submission in electronic format.

For reappraisal data submissions, reference may be made to the original map submitted. Any change to the harvest plan or area of harvest due to a “changed circumstance” (section 2.2.1) during the term of the cutting authority must be mapped and submitted to the district with the ADS, for the reappraisal.

Appendix V Geophysical Clearance Line Categories

The following categories of geophysical line clearing apply to Table 6-7. All clearing activity in the categories below must follow the best practices of meandering avoidance, line of site to a maximum of 200 metres, and avoidance of merchantable timber wherever possible. Failure to employ these best practices (as determined by the district manager) will result in the line clearing being billed as Category 1. The categories are defined as follows:

Category 1 - Any line section over 100 metres in length and over 4.25 metres in width.

Category 2 - Any line section over 100 metres in length and between 3.0 metres and 4.25 metres in width.

Category 3 - Any line section over 100 metres in length and less than 3.0 metres in width.

Appendix VI Appraisal Log Dumps

Area	District	Marine (M) Natural (N) or Reservoir (R)	Water Body Name	Dump Location Name
NORTH	Coast Mountain	M	Devastation Channel	Heysham Creek
NORTH	Coast Mountain	M	Devastation Channel	Hugh Creek
NORTH	Coast Mountain	M	Devastation Channel	North Kitsaway
NORTH	Coast Mountain	M	Devastation Channel	Pike/Sleeman
NORTH	Coast Mountain	M	Devastation Channel	South Kitsaway
NORTH	Coast Mountain	M	Douglas Channel	Miskatla
NORTH	Coast Mountain	M	Eagle Bay	Eagle Bay
NORTH	Coast Mountain	M	Gardner Canal	Barrie Creek
NORTH	Coast Mountain	M	Gardner Canal	Collins Bay
NORTH	Coast Mountain	M	Gardner Canal	Kemano Bay
NORTH	Coast Mountain	M	Kildala Arm	Dala River
NORTH	Coast Mountain	M	Kildala Arm	Falls River
NORTH	Coast Mountain	M	Kitimat Arm	Minette Bay
NORTH	Coast Mountain	M	Verney Passage	Cheenis Creek
NORTH	Mackenzie	R	Williston Lake	Bear Valley
NORTH	Mackenzie	R	Williston Lake	Chowika
NORTH	Mackenzie	R	Williston Lake	Clearwater
NORTH	Mackenzie	R	Williston Lake	Factor Ross
NORTH	Mackenzie	R	Williston Lake	Ingenika
NORTH	Mackenzie	R	Williston Lake	Lost Cabin
NORTH	Mackenzie	R	Williston Lake	Manson
NORTH	Mackenzie	R	Williston Lake	Mesilinka
NORTH	Mackenzie	R	Williston Lake	Nation
NORTH	Mackenzie	R	Williston Lake	Omineca
NORTH	Mackenzie	R	Williston Lake	Ospika
NORTH	Mackenzie	R	Williston Lake	Swannell
NORTH	Nadina	R	Knewstubb Lake	Ootsa Cheslatta
NORTH	Nadina	R	Knewstubb Lake	Ootsa Deerhorn
NORTH	Nadina	R	Knewstubb Lake	Table Bay
NORTH	Nadina	R	Knewstubb Lake	Tahtsa Reach
SOUTH	Okanagan Shuswap	N	Okanagan Lake	Bear Creek
SOUTH	Okanagan Shuswap	N	Shuswap Lake	Lee Creek
SOUTH	Okanagan Shuswap	N	Shuswap Lake	2 Mile
SOUTH	Okanagan Shuswap	N	Shuswap Lake	Wilson Creek
SOUTH	Selkirk	R	Arrow Lakes	Cayuse
SOUTH	Selkirk	R	Arrow Lakes	Fosthall
SOUTH	Selkirk	R	Arrow Lakes	Halfway
SOUTH	Selkirk	R	Arrow Lakes	Island Point - Gladstone

Area	District	Marine (M) Natural (N) or Reservoir (R)	Water Body Name	Dump Location Name
SOUTH	Selkirk	R	Arrow Lakes	Needles
SOUTH	Selkirk	R	Arrow Lakes	Octopus
SOUTH	Selkirk	R	Arrow Lakes	Renata
SOUTH	Selkirk	R	Arrow Lakes	Shelter Bay
SOUTH	Selkirk	R	Arrow Lakes	Snag Bay
SOUTH	Selkirk	R	Arrow Lakes	Stobo
SOUTH	Selkirk	N	Slocan Lake	Rosebery
SOUTH	Thompson Rivers	N	Adams Lake	North end

Appendix VII Amortization Agreement Form - Interior



Ministry of
Forests, Lands and
Natural Resource Operations

Amortization Agreement - Interior

This document constitutes an agreement to distribute a portion of the development cost estimate included in the appraisal for the cutting authority indicated below to the tributary cutting authority or cutting authorities identified below in accordance with the *Interior Appraisal Manual* in effect at the time the agreement is signed.

The agreement must be reviewed and approved by the Regional Executive Director (or designate). A copy of this agreement becomes an integral part of the appraisal for each of the tributary cutting authorities identified below.

Complete Legal Name of Licensee:			
Licensee Address:			
Licence:	CP:	Mark:	ECAS ID:

Project(s): <i>(see attached)</i>	
TOTAL COST ESTIMATE FOR APPORTIONMENT (\$):	
Licence and Cutting Authority	Amount Apportioned (\$)
Total Amount Apportioned (\$):	

This agreement is made for appraisal purposes only and does not confer any obligation on the Crown to compensate licensees for any unamortized costs.

Approved by Regional Executive Director or designate Name & Title (printed)	Licensee Representative Name & Title (printed)
RED or Designate Signature	Licensee Representative Signature
Date Signed (yyyy-mm-dd)	Date Signed (yyyy-mm-dd)

FS 1422 HVA 2016/07
of Privacy Act

Please be advised that this information may be released under the *Freedom of Information and Protection of Privacy Act*

