





Licence	A18697		Cutting Permit	432	Timber Mark	EU6432	AND Effective Date	2012-10-22
OR ECAS	ID 4459	98	_					
ACKNO	WLEDG	SEMENTS						
			s of this date, truthful in prepared according to the			ed, site condition	s, harvesting, development,	and
If the R.P.F.	or R.F.T. is	s not a staff membe	er of the Licensee, the	n the				
License	e Repres	entative is:						
Name:		,						
Phone:								
Fax:								
E-mail Add	dress:							
Check if a	opropriate							
	I certify that there have been no changes, to the data elements, specified operation or detailed engineering methodologies, or amendments to the cutting authority since the last appraisal or reappraisal.							
	-		2000 cubic metres of m		-		rea and that no timber is	
Select one	of the opti	ions below						
0	certify I per	sonally completed to	he work described here	ein.				
	I certify that the work described herein fulfils the standards expected of a member of the Association of British Columbia Forest Professionals and that I did personally supervise the work.							
()	I certify that I have reviewed this document and, while I did not personally supervise the work described, I have determined that this work has been done to the standards expected of a member of the Association of British Columbia Forest Professionals.							
Register	ed Profe	essional Fores	ster/Registered I	Forest Tech	nologist:			
Name:		Hales, Shaur	1					
R.P.F./R.F	.T #:	3979		Registere	d Forest Technolo	gist:]	
Phone:		(250)378-12	282					
Fax:								
E-mail Add	dress:	SHAUN.HA	LES@TOLKO.CO	М				
The inform	nation con	tained in this pac	kage may be releas	ed under the F	reedom of Informa	ation and Prote	ection of Privacy Act.	

REFERENCE INFORMATION

Reference Timber Mark (Tied to:)	N/A	ECAS Status: CON - Confirmed		
AAC:	100000m3	_		
Administrative Forest District:	DCS - Cascades Forest District	Geographic Forest District:	DCS - Cascades Forest District	
Tenure Type:	A01 - Forest Licence	_		
TSA:	18 - Merritt TSA	TSB:	18E - Merritt TSA Block 5	
Appraisal Effective Date: 201	12-10-22	Appraisal Expiry Date:	2016-10-21	
Appraisal Type: • New Reappraisal Reason:		Rate Calculation Method:	OCVP ● MPS	
Point of Appraisal: MERR - M	erritt	Comparative Cruise:		
		Salvage:	● Yes ○ No	
Stand Rate Eligibility: Conifer	rous: C - CB Live and Dead			

Deciduous: C - CB Live and Dead

Log Transportation / Administration

Log Transportation

Truck Haul					
Primary Haul Method:	H - Highway	Primary Cycle Time:	4.8 hours Secondary Cy	/cle Time:	hours
Water Transportation					
Water Transportation:		Tow Distance:	km Dewater/Reload:	O Yes	No
Special Transportatio	n Systems				
1. Railway					
Truck to Rail Transfer:	BC Rail Dease Lake	Other None			
Rail Transportation:					
2. Barge Ferry Used for Truck	c Haul:	Yes No			
3. Barge Ferry Used for Crew	Transportation:	Yes No			
Administration					
Road Management?		● Yes ○ No			
Woodlot Road Management C Estimate: (from IAM table)	Cost	\$/m3			
Approved Road Use Charge:		0.30 \$/m3 Description	1:		
Camps:		Rail Access Oth	ner Access None		
Basic Silviculture Required?		● Yes ○ No			

Circular Pipe	Diameter (m)	Circular Pipe Length (m)	Number
Applicable Volume:		m3	
Culverts (Tabulated)			
Culverts			

Tabular Road Construct	ion (New)	
Applicable Volume:		35419 m3

Tabular Roads

						Subgrad	de			Stabilizi	ng Material	
Road Identifier	Road Group	BGC Zone	Road Section Number		Section Length (km)	Soil Moisture (blank, W)	Side Slope (%)		Stabilizing Required	Length (km)	Mat. Type (blank, Q)	Distance to Source (km)
4	9 - Road Group 9	IDF	4	L - Long Term	0.20		8	5	No			
Total:			-		0.20							
1	9 - Road Group 9	MS	1	L - Long Term	3.10		8	6	Yes	1.5		4.8
Total:					3.10							
2	9 - Road Group 9	MS	2	L - Long Term	0.30		18	7	No			
Total:		•	•		0.30							
3	9 - Road Group 9	MS	3	L - Long Term	0.20		31	10	No			
Total:					0.20					<u>.</u>		
5	9 - Road Group 9	MS	5	S - Short Term	0.90		11	6	No			
Total:	•	•	•		0.90							
6	9 - Road Group 9	MS	6	S - Short Term	0.50		25	9	No			
Total:					0.50							
Grand Total	l:				5.20							

Ecas ID: 44598 Primary Timber Mark: EU6432 Appraisal Effective Date: 2012-10-22 Printed Date: 2013-02-04 1:07:32PM FNR-2013-00028 Page 6

Other Development

Other Structures

Fencing:	0 (in 100's of metres)
Number of Cattle Guards:	0
Number of Single Pipeline Crossings:	0
Number of Multiple Pipeline Crossings:	4

Allocated Development

Identifier	Description	Cost Base Year of Original Cost	Original Cost (\$)	Trended Cost(\$)*	Applicable Volume (m3)

^{*} Trended to the Cost Base of the current Manual

Engineered Development

Identifier	Description	Cost Base Year of Original Cost	Original Cost (\$)	Trended Cost(\$)*	Applicable Volume (m3)	Amended
1	Upgrade #1	2010	3557.16	3557.16	35419	
2	Upgrade #2	2010	4857.54	4857.54	35419	

^{*} Trended to the Cost Base of the current Manual

OPERATING COST INFORMATION				
Specified Operations				
Description	Rate \$/ m³			
COMMENTS:				

Control

Forest District

CON - Confirmed

Was the Appraisal Data Field Checked: O Yes No Was this CP Check Cruised: O Yes No Appraisal Data Submission has been validated against FTA: \$0.00 \$0.00 Silviculture Levy **Development Levy Data Submission Reviewed By** Email **Date Submitted Date Received** 2012-10-22 Dosch, Marlon Marlon.Dosch@gov.bc.ca 2012-09-20 **Forest Region** Adjusted Quarterly: # of issues: TOA Eligible: Yes No Yes No MVI Eligible: O Yes No **TOA Miscellaneous Cost:** 0.00 MPS/CVP Differential: 0 \$/m3 **Date Sent To Date Transferred** Reviewed By Email Region to GAS 2012-10-22 2013-01-11 Chantler, Ken Ken.Chantler@gov.bc.ca **ECAS Status**

Cruise Information / Tree to Truck Data

Cruise Information

Total Net Coniferous Cruise Volume: 35419 m3 CP Avg. Vol / Tree: .39 m3/tree Net Merchantable Area: 98.2 ha CP Avg. Vol / ha: 361.0 m3/ha 19 % 98.2 ha CP Average Slope: Net Area to be Reforested: Deciduous Volume (m3): **BEC Zone:** MS SubZone: dm Variant: %: 0 m3 Sampling Error % (at 2 stand.dev): 11 % **BEC Zone:** SubZone: Variant: %:

Selling Price Zone: 7 - Southern Interior

Species	Volume (m3)	Decay (%)	Stud Log (%)	LRF	Burn (%)
BA - Balsam	1015	13	70	174	0
FI - Fir	8878	4	35	183	0
LO - Lodge-Pine	19234	5	65	119	0
SP - Spruce	6292	7	28	203	0

Total 35419

Insect Damage Type	Volume (m3)
Gray Attack	13838
Green Attack	2720
Red Attack	324
Other Insects	374

Tree to Truck

Support Centre: Distance to Support Centre: 76 km (one way)

	Convent	tional	Ov	verhead Cable		Other Systems				
	Ground SI	kidding	Highlead / G	irapple	Skyline	Helico	Horse			
	Clear Cut	· · · · · · · · · · · · · · · · · · ·		Partial Cut	_	Clear Cut	Partial Cut			
Vol. To be harvested (m3)	35419									
Lodgepole Pine Vol. (m3)										
Hemlock Vol. (m3)										
Spruce Volume (m3)										
Biogeoclimatic zone	MS									
Net volume / tree (m3)	.39									
Volume / hectare (m3)	361									
Stand defect (%)	18									
Partial cut (%)										
Average slope (%)	19									
Blowdown (%)	6									
Heavy fire damage (%)	0									
Dead useless snags (%)	3	3								
Skyline Yarding Dist. (m)										
Heli Yarding Dist. (km)										
Uphill Yarding?		·		·				_		

Attachments

If submitting attachments as a single zip file, submit belo					
Please check off below what attachments are contained in Attach File: 432 ECAS Sub.zip	n the zip f	file.			
Appraisal Map	Compa	rative Cruise Info. as	per Cruising Manual		✓ Detailed Cycle Time Calculation
✓ Cruise Compilation	Amende	ements to Original Cr	uise Compilation		Engineered Estimates Detailed Calculations and Support In
Percent Rock Calculation	Specifie	ed Operations Detaile	d Calculations and S	ipport In	Road Use Charges (copy of approved document)
Extended Amortization Detailed Agreeme	Allocate	ed Development Detai	iled Calculations		BCTS Application in Tender (FS574)
Miscellaneous					
If attaching individually, submit below.		aladada ayaa ayaa		District.	
If the item applies to this appraisal then the attachment m	ust be in	Electronic	Paper Copy	NA	Attachment
		(Attached)	to Follow		
Appraisal Map		O	O	•	
Comparative Cruise Info. as per Cruising Manual		O	O .	•	
Detailed Cycle Time Calculation		O	O	•	
Cruise Compilation		O	O	•	
Amendements to Original Cruise Compilation		O	0	•	
Engineered Estimates Detailed Calculations and Support In		O	O .	•	
Percent Rock Calculation		O	0	•	
Specified Operations Detailed Calculations and Support In		O	O .	•	
Road Use Charges (copy of approved document)		•	0	0	EU6433_2.pdf
Extended Amortization Detailed Agreement		O	O	•	
Allocated Development Detailed Calculations		O	O	•	
BCTS Application in Tender (FS574)		O	O	•	

	Electronic (Attached)	Paper Copy to Follow	NA	Attachment
Miscellaneous No Description Available	0	O	•	







Licence A65006	Cutting Permit 403 Timber Mark AK4403 AND Effective Date 2011-10-14	_
<u>OR</u> ECAS ID 38611		
ACKNOWLEDGE	MENTS	
silviculture plans and othe	ission contains, as of this date, truthful information on the timber to be harvested, site conditions, harvesting, development, and information, all prepared according to the <i>Interior Appraisal Manual</i> . ot a staff member of the Licensee, then the	
Licensee Represe	ntative is:	
Name:	Kuzio, Shaun M	
Phone:	(250)378-2277	
Fax:	(250)378-2541	
E-mail Address:	shaunk@stuwix.com	
the cutting auti	ere have been no changes, to the data elements, specified operation or detailed engineering methodologies, or amendments to nority since the last appraisal or reappraisal. Beer are less than 2000 cubic metres of merchantable timber remaining on the cutting authority area and that no timber is harvested during the next year. I am requesting that the current appraisal be extended. Be below The property of the work described herein. Be work described herein fulfils the standards expected of a member of the Association of British Columbia Forest Professionals ersonally supervise the work. Beever reviewed this document and, while I did not personally supervise the work described, I have determined that this work has ne standards expected of a member of the Association of British Columbia Forest Professionals. Besional Forester/Registered Forest Technologist:	
Name:	Shaun, Kuzio	
R.P.F./R.F.T #:	4099 Registered Forest Technologist:	
Phone:	(250)997-2738	
Fax:		
E-mail Address:	shaunk@stuwix.com	
The information conta	ned in this package may be released under the Freedom of Information and Protection of Privacy Act.	

REFERENCE INFORMATION

Reference Timber Mark (Tied to:)		ECAS Status: CON - Confirm	ned		
AAC:	303886m3	_			
Administrative Forest District:	DCS - Cascades Forest District	Geographic Forest District:	DCS - Cascades Forest District		
Tenure Type:	A01 - Forest Licence	_			
TSA:	18 - Merritt TSA	TSB:	18F - Merritt TSA Block 6		
Appraisal Effective Date: 201	11-10-14	_ Appraisal Expiry Date:	2013-10-13		
		Rate Calculation Method:	OCVP ● MPS		
Reappraisal Reason:			0 V - N		
Point of Appraisal: PRIN - Prin	nceton	Comparative Cruise:	OYes ● No		
		Salvage:	Yes No		
Stand Rate Eligibility: Conifer	ous: S - Sawlog Grades				

Deciduous: N - No Grades

Log Transportation / Administration

Log Transportation

Truck Haul					
Primary Haul Method:	H - Highway	Primary Cycle Time:	4.8 hours Secondary Cy	/cle Time: _	hours
Water Transportation	ı				
Water Transportation:		Tow Distance:	km Dewater/Reload:	O Yes	No
Special Transportation	on Systems				
1. Railway					
Truck to Rail Transfer:	O BC Rail Dease Lake	Other None			
Rail Transportation:					
2. Barge Ferry Used for Truc	ck Haul:	Yes No			
3. Barge Ferry Used for Crev	w Transportation:	Yes No			
Administration					
Road Management?		● Yes ○ No			
Woodlot Road Management Estimate: (from IAM table)	Cost	\$/m3			
Approved Road Use Charge	<u></u>	0.00 \$/m3 Description	n:		
Camps:		Rail Access Oth	ner Access None		
Basic Silviculture Required	?	● Yes ○ No			

Circular Pipe	Diameter (m)	Circular Pipe Length (m)	Number
Applicable Volume:		m3	
Culverts (Tabulated)			
Culverts			

Tabular Road Construct	ion (New)	
Applicable Volume:	71757 m	3

Tabular Roads

Ecas ID: 38611 Primary Timber Mark: AK4403 Appraisal Effective Date: 2011-10-14 FNR-2013-00028 Printed Date: 2013-02-04 1:08:38PM

Page 18

						Subgrad	le			Stabilizi	ng Material	g Material				
Road Identifier	Road Group	BGC Zone	Road Section Number		Section Length (km)	Soil Moisture (blank, W)	Side Slope (%)		Stabilizing Required	Length (km)	Mat. Type (blank, Q)	Distance to Source (km)				
403.06.2	9 - Road Group 9	ESSF	2	L - Long Term	0.40		9	4	Yes	.4		1.4				
Total:					0.40				-							
403.08	9 - Road Group 9	ESSF	1	S - Short Term	0.70		11	1	No							
Total:					0.70											
403.02	9 - Road Group 9	MS	1	L - Long Term	2.00		27	1	Yes	2		1.3				
Total:	•				2.00											
403.03	9 - Road Group 9	MS	1	L - Long Term	1.90		16	1	Yes	1.9		1.1				
Total:		1		I	1.90			l		ı						
403.05	9 - Road Group 9	MS	1	S - Short Term	0.70		20	1	No							
Total:	_ I	I			0.70					l						
403.06.1	9 - Road Group 9	MS	1	L - Long Term	2.10		25	4	Yes	2.1		1.9				
Total:	•			•	2.10				•							
403.07	9 - Road Group 9	MS	1	S - Short Term	0.60		15	3	No							
Total:					0.60											
Grand Total:					8.40											

Other Development

Other Structures 0 (in 100's of metres) Fencing: 0 **Number of Cattle Guards: Number of Single Pipeline Crossings:** 0 0 **Number of Multiple Pipeline Crossings: Allocated Development** Identifier Original Cost (\$) Trended Cost(\$)* **Applicable** Description **Cost Base** Volume (m3) Year of **Original Cost** * Trended to the Cost Base of the current Manual

Engineered Development

Identifier	Description	Cost Base Year of Original Cost	Original Cost (\$)	Trended Cost(\$)*	Applicable Volume (m3)	Amended

^{*} Trended to the Cost Base of the current Manual

OPERATING COST INFORMATION		
Specified Operations		
Description	Rate \$/	m ³
High Development Cost		0.00
COMMENTS:		
D. LD:		0.00
Root Disease COMMENTS:		0.00
COMMENTS.		
Skidder Swinging		0.00
COMMENTS:		
Suitable Secondary Structure Survey Specified Operation		0.00
COMMENTS:		

Control

Forest District													
Was the Appraisal Data Field Ch	neck	ed:				C	Yes	•	No				
Was this CP Check Cruised:						C	Yes	•	No				
Appraisal Data Submission has	bee	n vali	dated a	gair	nst FTA	٨:		\checkmark]				
Silviculture Levy			Dev	velo	pment	Levy							
Data Submission Reviewed By			Email								Date Su	bmitted	Date Received
Dosch, Marlon Marlon.Dosch@go				gov.bc.c	a				2011-0	8-12	2011-11-25		
Forest Region													
Adjusted Quarterly:	•	Yes		\bigcirc	No	#	of issues	:		TOA	Eligible:	Yes	O No
MVI Eligible:	\bigcirc	Yes		•	No					TOA	Miccellon	eous Cost:	
MPS/CVP Differential:				0	\$/m3					IOA	Miscellan	eous Cost.	
Reviewed By			Email								Date Se Region	nt To	Date Transferred to GAS
Chantler, Ken		_	Ken.C	Char	ntler@	gov.bc.ca	l				2011-1	1-25	2011-12-20
ECAS Status													
CON - Confirmed													

Cruise Information / Tree to Truck Data

Cruise Information

Total Net Coniferous Cruise Volume: 71757 m3 CP Avg. Vol / Tree: .43 m3/tree 137.6 ha Net Merchantable Area: CP Avg. Vol / ha: 521.0 m3/ha 33 % 137.6 ha CP Average Slope: Net Area to be Reforested: Deciduous Volume (m3): **BEC Zone:** MS SubZone: dm Variant: 0 m3 %: Sampling Error % (at 2 stand.dev): 9 % **BEC Zone: ESSF** SubZone: dc Variant: %:

Selling Price Zone: 7 - Southern Interior

Species	Volume (m3)	Decay (%)	Stud Log (%)	LRF	Burn (%)
BA - Balsam	6135	10	36	185	0
FI - Fir	4975	2	39	184	0
LO - Lodge-Pine	47483	3	65	175	0
SP - Spruce	13164	3	28	204	0

Total 71757

Insect Damage Type	Volume (m3)
Gray Attack	690
Green Attack	6158
Red Attack	7317
Other Insects	1726

Tree to Truck

Support Centre: Princeton Distance to Support Centre: 49 km (one way)

	Conventional		Ov	verhead Cable		Other Systems			
	Ground SI	kidding	Highlead / G	irapple	Skyline	Helicopter		Horse	
	Clear Cut	Partial Cut	Clear Cut	Partial Cut		Clear Cut	Partial Cut		
Vol. To be harvested (m3)	55423		16334						
Lodgepole Pine Vol. (m3)			10233						
Hemlock Vol. (m3)									
Spruce Volume (m3)									
Biogeoclimatic zone	MS		MS						
Net volume / tree (m3)	.44		.41						
Volume / hectare (m3)	507.5		575.1						
Stand defect (%)	8		7						
Partial cut (%)									
Average slope (%)	30		44						
Blowdown (%)	4		5						
Heavy fire damage (%)	0		0						
Dead useless snags (%)	1		0						
Skyline Yarding Dist. (m)									
Heli Yarding Dist. (km)									
Uphill Yarding?									

Attachments

If submitting attachments as a single zip file, submit below. Please check off below what attachments are contained in the a	zip file.			
Appraisal Map Cor	mparative Cruise Info. as	per Cruising Manual		Detailed Cycle Time Calculation
Cruise Compilation	endements to Original Cr	uise Compilation		Engineered Estimates Detailed Calculations and Support In
Percent Rock Calculation Spe	cified Operations Detaile	d Calculations and S	upport In	Road Use Charges (copy of approved document)
Extended Amortization Detailed Agreeme Allo	ocated Development Deta	iled Calculations		BCTS Application in Tender (FS574)
Miscellaneous				
If attaching individually, submit below. If the item applies to this appraisal then the attachment must be	included or paper co	ny submitted to the	District	
in the item applies to this appraisal then the attachment must be	Electronic (Attached)	Paper Copy to Follow	NA NA	Attachment
Appraisal Map	•	O	O	cp403_appraisal_Nov17.pdf
Comparative Cruise Info. as per Cruising Manual	O	0	•	
Detailed Cycle Time Calculation	•	0	0	Detailed Cycle Time CP 403.xls
Cruise Compilation	•	O .	0	A65006_403.pdf
Amendements to Original Cruise Compilation	0	0	•	
Engineered Estimates Detailed Calculations and Support In	O	O .	•	
Percent Rock Calculation	0	0	•	
Specified Operations Detailed Calculations and Support In	O .	0	•	
Road Use Charges (copy of approved document)	O	O	•	
Extended Amortization Detailed Agreement	O	O	•	
Allocated Development Detailed Calculations	O	O	•	
BCTS Application in Tender (FS574)	9	O	•	

	Electronic (Attached)	Paper Copy to Follow	NA	Attachment
Miscellaneous No Description Available	•	0	0	A65006_403.dat
SP Notes	•	O	0	CP 403_2 Biogeo map.zip
Reserved Timber	•	O	O	A65006 CP 403 Schedule B1.doc



Ministry of Forests and Range



INTERIOR APPRAISAL DATA SUBMISSION

Licence	A18698		Cutting Permit	185	_ Timber Mark	EU7185	AND Effective Date	2011-11-21	
OR ECAS I	D 39564		_						
ACKNO	WLEDGE	MENTS							
			s of this date, truthful repared according to			ted, site condition	s, harvesting, development,	and	
If the R.P.F.	or R.F.T. is n	ot a staff membe	r of the Licensee, the	en the					
Licensee	Represe	ntative is:							
Name:		,							
Phone:									
Fax:									
E-mail Add	ress:								
Check if ap	propriate								
I certify that there have been no changes, to the data elements, specified operation or detailed engineering methodologies, or amendments to the cutting authority since the last appraisal or reappraisal.									
	•				ber remaining on the current appraisal be	,	rea and that no timber is		
Select one	of the optior	ns below							
0	certify I perso	nally completed th	ne work described her	ein.					
	I certify that the work described herein fulfils the standards expected of a member of the Association of British Columbia Forest Professionals and that I did personally supervise the work.								
I certify that I have reviewed this document and, while I did not personally supervise the work described, I have determined that this work has been done to the standards expected of a member of the Association of British Columbia Forest Professionals.									
Register	ed Profes	sional Fores	ter/Registered	Forest Tech	nnologist:				
Name:		Carmichael, J	Jason						
R.P.F./R.F.	T #:	3163		Register	ed Forest Technol	ogist:			
Phone:		(250)295-32	81						
Fax:									
E-mail Add	ress:	jason.carmic	chael@weyerhae	user.com					
The inform	ation conta	ined in this pac	kage may be relea	sed under the	Freedom of Inform	ation and Prot	ection of Privacy Act.		

Ecas ID: 39564 Primary Timber Mark: EU7185 Appraisal Effective Date: 2011-11-21 FNR-2013-00028 Printed Date: 2013-02-04 1:09:35PM

REFERENCE INFORMATION

Reference Timber Mark (Tied to:)		ECAS Status: CON - Confirm	ON - Confirmed			
AAC:	413566m3	-				
Administrative Forest District:	DCS - Cascades Forest District	Geographic Forest District:	DCS - Cascades Forest District			
Tenure Type:	A01 - Forest Licence	_				
TSA:	18 - Merritt TSA	TSB:	18H - Merritt TSA Block 8			
Appraisal Effective Date: 201	1-11-21	Appraisal Expiry Date:	2015-11-20			
Appraisal Type: New Reappraisal Reason:		Rate Calculation Method:	○CVP • MPS			
Point of Appraisal: PRIN - Prin	nceton	Comparative Cruise:				
		Salvage:	● Yes ○ No			
Stand Rate Eligibility: Conifer	ous: S - Sawlog Grades					

Deciduous: N - No Grades

Log Transportation / Administration

Log Transportation

Truck Haul					
Primary Haul Method:	H - Highway	Primary Cycle Time:	3.1 hours Secondary Cy	/cle Time: _	hour
Water Transportation					
Water Transportation:		Tow Distance:	km Dewater/Reload:	O Yes	No
Special Transportation	n Systems				
1. Railway					
Truck to Rail Transfer:	BC Rail Dease Lake	Other None			
Rail Transportation:					
2. Barge Ferry Used for Truck	(Haul:	Yes No			
3. Barge Ferry Used for Crew	Transportation:	Yes ■ No			
Administration					
Road Management?		● Yes ○ No			
Woodlot Road Management C Estimate: (from IAM table)	Cost	\$/m3			
Approved Road Use Charge:		0.00 \$/m3 Description	1:		
Camps:		○ Rail Access ○ Oth	ner Access None		
Basic Silviculture Required?		● Yes ○ No			

Ecas ID: 39564 Primary Timber Mark: EU7185 Appraisal Effective Date: 2011-11-21 FNR-2013-00028 Printed Date: 2013-02-04 1:09:35PM

Circular Pipe Diameter (m)	Circular Pipe Length (m)	Number
Applicable Volume:	m3	
Culverts (Tabulated)		
Culverts		

Tabular Roads

Tabular Road Construct	ion (New)	
Applicable Volume:	299558 m3	3

						Subgrad	de			Stabilizi	ng Material	
Road Identifier	Road Group	BGC Zone	Road Section Number	Туре	Section Length (km)	Soil Moisture (blank, W)	Side Slope (%)	Rock (%)	Stabilizing Required	Length (km)	Mat. Type (blank, Q)	Distance to Source (km)
2	9 - Road Group 9	ESSF	2	S - Short Term	10.40		23	1	No			
Total:					10.40				-			
3	9 - Road Group 9	ESSF	1	L - Long Term	8.20		23	1	No			
Total:	•				8.20			•	•			•
1	9 - Road Group 9	MS	3	S - Short Term	4.80		23	1	No			
Total:		•			4.80							
4	9 - Road Group 9	MS	4	L - Long Term	2.00		23	1	No			
Total:					2.00					_		
Grand Total:					25.40							

Ecas ID: 39564 Primary Timber Mark: EU7185 Appraisal Effective Date: 2011-11-21 FNR-2013-00028 Printed Date: 2013-02-04 1:09:35PM

Other Development

Other Structures

Fencing:	0 (in 100's of metres)
Number of Cattle Guards:	0
Number of Single Pipeline Crossings:	0
Number of Multiple Pipeline Crossings:	0

Allocated Development

Identifier	Description	Cost Base Year of Original Cost	Original Cost (\$)	Trended Cost(\$)*	Applicable Volume (m3)

^{*} Trended to the Cost Base of the current Manual

Engineered Development

Identifier	Description	Cost Base Year of Original Cost	Original Cost (\$)	Trended Cost(\$)*	Applicable Volume (m3)	Amended
1	Surfacing on Existing Roads	2009	59565.00	59565.00	299558	
2	Road Upgrade	2009	282.80	282.80	299558	
3	Road Upgrade	2009	2985.60	2985.60	299558	

^{*} Trended to the Cost Base of the current Manual

OPERATING COST INFORMATION					
Specified Operations					
Description	Rate \$/ m³				
COMMENTS:					

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Control

O Yes	No	
O Yes	No	
ted against FTA:	\checkmark	
Development Levy		
mail	Date Submitted	Date Received
craig.Sine@gov.bc.ca	2011-10-04	2011-10-31
O. N. Watterson		Q. No
	TOA Eligible: Yes	O No
● No	TOA Miscellaneous Cost:	
0 \$/m3		
mail	Date Sent To Region	Date Transferred to GAS
en.Chantler@gov.bc.ca	2011-10-31	2011-12-22
	Yes Ited against FTA: Development Levy Imail Craig.Sine@gov.bc.ca No # of issues: No	TOA Eligible: No No No No No No No No No N

Cruise Information / Tree to Truck Data

Cruise Information

Total Net Coniferous Cruise Volume: 299558 m3 CP Avg. Vol / Tree: .53 m3/tree Net Merchantable Area: 623 ha CP Avg. Vol / ha: 480.8 m3/ha 23 % 623.0 ha CP Average Slope: Net Area to be Reforested: **BEC Zone:** MS SubZone: dm Deciduous Volume (m3): 0 m3 Variant: %:

Sampling Error % (at 2 stand.dev): _______9 % BEC Zone: ESSF SubZone: dc Variant: 2 %: 69

Selling Price Zone: 7 - Southern Interior

Species	Volume (m3)	Decay (%)	Stud Log (%)	LRF	Burn (%)
BA - Balsam	20450	13	36	188	0
FI - Fir	100	3	29	208	0
LO - Lodge-Pine	209339	7	42	169	0
SP - Spruce	69669	6	28	204	0

Total 299558

Insect Damage Type	Volume (m3)
Gray Attack	32645
Green Attack	38216
Red Attack	43668
Other Insects	4284

Tree to Truck

Support Centre: Princeton Distance to Support Centre: 37 km (one way)

	Conventional		Overhead Cable			Other Systems		
	Ground Skidding		Highlead / G	irapple	Skyline	Helicopter		Horse
	Clear Cut	Partial Cut	Clear Cut	Partial Cut	-	Clear Cut	Partial Cut	
Vol. To be harvested (m3)	299558							
Lodgepole Pine Vol. (m3)								
Hemlock Vol. (m3)								
Spruce Volume (m3)								
Biogeoclimatic zone	ESSF							
Net volume / tree (m3)	.53							
Volume / hectare (m3)	481							
Stand defect (%)	18							
Partial cut (%)								
Average slope (%)	23							
Blowdown (%)	5							
Heavy fire damage (%)	0							
Dead useless snags (%)	5							
Skyline Yarding Dist. (m)							_	
Heli Yarding Dist. (km)								
Uphill Yarding?								_

Attachments

If submitting attachments as a single zip file, submit below. Please check off below what attachments are contained in t				
Attach File:	ne zip me.			
Appraisal Map	Map Comparative Cruise Info. as per Cruising Manual			Detailed Cycle Time Calculation
Cruise Compilation	Amendements to Original Co	ruise Compilation		Engineered Estimates Detailed Calculations and Support In
Percent Rock Calculation	Specified Operations Details	ed Calculations and S	upport In	Road Use Charges (copy of approved document)
Extended Amortization Detailed Agreeme	Allocated Development Deta	ailed Calculations		BCTS Application in Tender (FS574)
Miscellaneous				
If attaching individually, submit below.			5 1.4.4.4	
If the item applies to this appraisal then the attachment mus	Electronic	Paper Copy	NA NA	Attachment
	(Attached)	to Follow		
Appraisal Map	•	O	O	Appraisal Maps.zip
Comparative Cruise Info. as per Cruising Manual	O	0	•	
Detailed Cycle Time Calculation	•	0	O	FL A18698 CP 185 Cycle time revised.xlsx
Cruise Compilation	•	0	O	CP 185 appraisal compilations.zip
Amendements to Original Cruise Compilation	O	0	•	
Engineered Estimates Detailed Calculations and Support In	•	0	O	A18698 CP 185 Engineered Cost Estimates_modified 2011_10_27.pdf
Percent Rock Calculation	0	0	•	
Specified Operations Detailed Calculations and Support In	O	O	•	
Road Use Charges (copy of approved document)	O	O	•	
Extended Amortization Detailed Agreement	O	0	•	
Allocated Development Detailed Calculations	O	0	•	
BCTS Application in Tender (FS574)	O	O	•	

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	Electronic (Attached)	Paper Copy to Follow	NA	Attachment
Miscellaneous Cycle Time Rationale	•	O	0	Response to Appraisal Review.pdf