Verbrugge, Cheryl FLNR:EX

From: Connon, Hugh J FLNR:EX
Sent: Tuesday, November 18, 2014 3:07 PM
To: Birrell, Steve A FLNR:EX
Cc: Elliott, Terry C FLNR:EX; 'Josh Hiebert'
Subject: RE: CP AA

I have the go ahead from Terry to forward this permit to the DM or acting DM for issuance today.

Hugh Connon, RFT
Resource Technician
Ministry of Forests, Lands & Natural Resource Operations
Government of British Columbia
Phone: (250) 956-5117
Email: Hugh.Connon@gems4.gov.bc.ca

From: Birrell, Steve A FLNR:EX
Sent: Tuesday, November 18, 2014 2:42 PM
To: Elliott, Terry C FLNR:EX
Cc: Connon, Hugh J FLNR:EX
Subject: FW: CP AA

Hey Terry, is this going to happen today ?

From: Josh Hiebert [mailto:jhiebert@lemare.ca]
Sent: Tuesday, November 18, 2014 1:36 PM
To: Birrell, Steve A FLNR:EX
Subject: CP AA

Good Afternoon Steve
Can you let me know if this permit has gone for signature please
Thanks

Joshua Hiebert, RFT, ATC
Planning Manager
LEMARE

3341 Mine Road – PO Box 609
Port McNeill, B.C., Canada V0N 2R0
Telephone: (250) 956-3123
Cell: (250) 902-8991
Fax: (250) 956-4888
Email: jhiebert@lemare.ca

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LIONS GATE
FOREST PRODUCTS LTD

Andrew Ashford, District Manager
Ministry of Forests, Lands and Natural resources
North Island Central Coast District
2217 Mine Road, PO Box 7000
Port McNeill, BC
V0N 2R0

December 1, 2015

REFERENCE: CUTTING PERMIT APPLICATION – T0629 CP 'AF'

Lions Gate Forest Products Ltd (LGFP) makes application for Cutting Permit (CP) 'AF'.

This CP application is comprised of 2 cut-block (LEC15B and LEC3) s.18
s.18

The cut-block contained in this application are included in the Lemare Lions Gate FSP. The cut-blocks are entirely contained within T0629.

LGFP has notified the Quatsino and had a full information sharing session with Ralph Wallas, his team and Kathy DesRochers on September 29, 2015 regarding our plans for this area. During our information sharing it was determined that no Archaeological assessment would be required for the block LEC15, and a PFR would be reuired for LEC3 s.18 . During the PFR, engineering and field work there were no heritage features or archaeological important features identified within our proposed cut blocks or along our roads in LEC15 or LEC3.

The roads required to access these blocks are approved under road permit R17089, and/or pending approval.

Included in this CP application are the following attachments (attached in ECAS):

- 1 copy of the signed CP application (this letter);
- 1:5,000 scale Appraisal Map(s);
- 1:5,000 scale Cruise Map(s);
- Cruise DAT Files;
- Cruise Compilations;
- 1:5,000 scale Road Construction Map;
- 1:5,000 scale Plot Map;
- Notification to First Nations (Quatsino) of intent to construct new roads and harvest cut-blocks within T0629;

PO Box 1700.

Port McNeill, BC V0N 2R0

TEL (250) 956-3123 FAX (250) 956-4888 Email: office@lemare.ca

Please note, all the above attachments were submitted into ECAS. The electronic submissions associated with this application are:

- ECAS id/submission # 75691
- ESF id/submission # 1467814

Please send the approval to Lions Gate Forest Products Ltd. Attention: Josh Hiebert

For further information, please contact the undersigned.

Regards,

Digitally signed by Joshua Hiebert
DN: cn=Joshua Hiebert, o=Lemare, ou=Planning, email=jhiebert@lemare.ca, c=CA
Date: 2015.12.16 10:06:23 -08'00'

Joshua Hiebert, RFT, ATC
Planning Manager
LIONS GATE FOREST PRODUCTS LTD.
3341 Mine Road – PO Box 1700
Port McNeill, B.C., Canada V0N 2R0
Telephone: (250) 956-3123
Fax: (250) 956-4888
Email: jhiebert@lemare.ca

Page 004 to/à Page 013

Withheld pursuant to/removed as

s.18

Verbrugge, Cheryl FLNR:EX

From: Josh Hiebert <jhiebert@lemare.ca>
Sent: Wednesday, December 16, 2015 10:08 AM
To: FTA DIC P FLNR:EX
Subject: T0629 CP AF
Attachments: T0629_CP AF_01December2015.pdf; s.18

I have attached the cover letter for T0629 CP 'AF' Application that I have made on behalf of Lions Gate Forest Products Ltd. All data is entered in ECAS (ID:75691) and the ESF #1467814 was submitted also.
LGFP has notified the Quatsino and had a full information sharing session with Ralph Wallas, his team and Kathy DesRochers on September 29, 2015 regarding our plans for this area. During our information sharing it was determined that no Archaeological assessment would be required for the block LEC15B and we would follow 'Standard Operating Procedures', but a PFR would be required for LEC3 and the Quatsino had no further concerns with our plans. During the PFR, engineering and field work there were no heritage features or archaeological important features identified within our proposed cut blocks or along our roads.

Please let me know if you have any questions and I look forward to hearing from you soon.

Joshua Hiebert, RFT, ATC
Planning Manager
LEMARE

3341 Mine Road – PO Box 609
Port McNeill, B.C., Canada V0N 2R0
Telephone: (250) 956-3123
Cell: (250) 902-8991
Fax: (250) 956-4888
Email: jhiebert@lemare.ca

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This e-mail message and its attachments are intended only for the named recipient(s) and may contain information that is privileged, confidential and/or otherwise exempt from disclosure under applicable law. No waiver of privilege, confidence or otherwise is intended by virtue of such communication via the Internet. Any unauthorized use, dissemination or copying is strictly prohibited. If you have received this e-mail in error, or are not named as a recipient, please immediately notify the sender and delete this message and its attachments from your system. Before opening any attachments please check them for viruses and/or defects.

Verbrugge, Cheryl FLNR:EX

From: Schofield, Cyndi FLNR:EX
Sent: Friday, August 7, 2015 10:23 AM
To: Connon, Hugh J FLNR:EX
Cc: Sheaves, Betty FLNR:EX
Subject: T0629 CP AD

I have completed my review for this cutting permit.
Shapes appear to agree with Appraisal Maps, however CB LEC7 & LEC8 areas stated on Appraisal Map, does not agree with ESF Submission.

Cyndi Schofield
GIS Technician
Ministry of FLNRO
PO Box 7000
Port McNeill, BC
Phone: 250 956-5054
Email: Cyndi.Schofield@gov.bc.ca

CUTTING AUTHORITY DETAIL

Weighted Haul Distance: 8.0

Weighted Crew Transportation Distance: 20.7

Point of Appraisal: ALBE - Alberni

Cutblock #	Harvest Method	Volume (m3)	Point of Origin		Appraisal Log Dump	Other Log Dump	Truck Haul Distance (km)	Crew Transportation		Accessible / Isolated	Road Management	Major Centre	
			1	2				Distance (km)	Marshall Point			Major Centre	Distance (km)
LEC10	CY	4952	Cleagh Creek		OTH	KLASKISH	16.4	17.6	East Creek Camp	A	Yes	Campbell River	176
LEC7	GS	2257	Cleagh Creek		OTH	KLASKISH	5.6	21.3	East Creek Camp	A	Yes	Campbell River	177
LEC7	CY	9025	Cleagh Creek		OTH	KLASKISH	5.6	21.3	East Creek Camp	A	Yes	Campbell River	177
LEC8	GS	3727	Cleagh Creek		OTH	KLASKISH	6.1	21.8	East Creek Camp	A	Yes	Campbell River	176
LEC8	CY	3447	Cleagh Creek		OTH	KLASKISH	6.1	21.8	East Creek Camp	A	Yes	Campbell River	176

OPERATING COST INFORMATION

Development Cost - Bridges

Type	Road Name	Stn #		Bridge Type	Crib Height (m)	Span Length (m)	Crown %	Amortized %	Appraisal Year	Bridge Built?
		Start	End							
N	LEC3000	312	317	L - Log	1	5	100	100	2015	☐
N	LEC3000	420	425	L - Log	1	5	100	100	2015	☐
N	LEC3010	517	522	L - Log	1	5	100	100	2015	☐
N	LEC3800	175	183	L - Log	1	8	100	100	2015	☐
N	LEC3800	329	335	L - Log	1	6	100	100	2015	☐

OPERATING COST INFORMATION

Development Cost - Tabular Roads

Identity				Subgrade						
	Station #									
Road Name	Start	End	Section Length (km)	Bank Height Category	RMC	Appraisal Year	Crown %	Amortized %	Section Built?	
BR60	2841	2873	0.032	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
BR60	2898	2938	0.040	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
BR60	2978	3238	0.260	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
BR60	3258	3896	0.638	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
BR60	3998	4031	0.033	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
BR60	4128	4134	0.006	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
BR60	4170	4238	0.068	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
BR60	4278	4310	0.032	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
BR60	4330	4368	0.038	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
LEC3000	0	312	0.312	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
LEC3000	317	420	0.103	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
LEC3000	425	520	0.095	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
LEC3010	0	517	0.517	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
LEC3010	522	659	0.137	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
LEC3012	0	29	0.029	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
LEC3014	0	37	0.037	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
LEC3014	0	175	0.175	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
LEC3700	0	99	0.099	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
LEC3800	183	329	0.146	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
LEC3800	335	410	0.075	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	

Total for 2015 : 2.872 km

Tabular Road Total: 2.872 km

OPERATING COST INFORMATION

Development Cost - Road Reconstruction

Case	Road Name	Start	End	Section Length	Subgrade					Surfacing						Total Cost for Section	Appraisal Year	Crown %	Amortization %	Section Built
					Rem. Road Width	Construction Category	Uphill Side Slope %	Material Type	Cost per km	Required	Depth	Haul Distance	Pit Location	Material Type	Cost per km					
R1	BR60	0	2841	2.841	5.50	1	55	S	5922	☒	0.2		LOCAL	S	11558	49660	2015	100	100	☐
R1	EAST CREEK MAINLINE	5735	7218	1.483	5.50	1	55	S	5922	☒	0.2		LOCAL	S	11558	25923	2015	100	100	☐

Total for 2015: 4.324

OPERATING COST INFORMATION

Development Cost - End Haul

Type	Case	Road Name	Start	End	Section Length (km)	Subgrade							Surfacing					Partial %	Crown %	Amortized %	Total Cost for Section	Appraisal Year	Section Built
						Construction Category	Uphill Side Slope %	Material Type	Spoil Location	Haul Distance (km)	Total End Haul Volume (m3)	Total Cost End Haul ($/km)	Surfacing	Material Type	Pit Location	Haul Distance (km)	Total Cost / km ($/km)						
N	EH	BR60	2873	2898	0.025	5	60	S	br60 1+741	1.19	316	180720	☐					100	100	100	4518	2015	☐
N	EH	BR60	2938	2978	0.040	5	63	S	br60 1+741	1.26	658	236275	☐					100	100	100	9451	2015	☐
N	EH	BR60	3238	3258	0.020	5	55	S	br60 1+741	1.55	508	370450	☐					100	100	100	7409	2015	☐
N	EH	BR60	3896	3998	0.102	5	66	S	br60 1+741	2.25	1726	256441	☐					100	100	100	26157	2015	☐
N	EH	BR60	4031	4128	0.097	6	75	S	br60 1+741	2.38	1757	291464	☐					100	100	100	28272	2015	☐
N	EH	BR60	4134	4170	0.036	6	73	S	br60 1+741	2.45	1206	540806	☐					100	100	100	19469	2015	☐
N	EH	BR60	4238	4278	0.040	6	74	S	br60 1+741	2.56	602	244325	☐					100	100	100	9773	2015	☐
N	EH	BR60	4310	4330	0.020	5	55	S	br60 1+741	2.62	637	491800	☐					100	100	100	9836	2015	☐
N	EH	LEC3010	528	550	0.022	5	55	S	lec 3010 0+440	0.10	334	203773	☐					100	100	100	4483	2015	☐
		Total for 2015:			0.402																119368		
		Total:			0.402																119368		

SELLING PRICE INFORMATION

Grade %

Species	Peeler		Lumber				Sawlog			Shingle			Util.		Chip	Total Net Cruise Volume by Species	Grade Source Level
	B	C	D	E	F	G	H	I	J	K	L	M	U	X	Y		
Alder																117	
Balsam																1483	
Cedar																12134	
Cypress																312	
Hemlock																9362	

Selling Price Zone:

TOTAL NET CRUISE VOLUME: 23408

Second growth: ☐

Single Tree Selection Cruise Volume: ☐

TSA: 33 - Kingcome TSA

TSB: 33A - Kingcome TSA Brooks Block

Applicable Volume (m^3)	Appraisal Year	Area Unlogged (ha)
	2015	33.4

ATTACHMENTS

If submitting attachments as a single zip file, submit below.
Please check off below what attachments are contained in the zip file.

Attach File:

- ☐ Appraisal Map
- ☐ Approved Request for a Approval of a Road Use Charge

Specified Operations:

- ☐ A-frame Logging
- ☐ Blowdown Timber
- ☐ Single Tree Selection
- ☐ Group Selection
- ☐ Skyline Logging
- ☐ Lake Transportation
- ☐ Skidder Swing
- ☐ Towing to Tie-up Grounds
- ☐ Camp Move
- ☐ Destumping
- ☐ Tree Crown Modification
- ☐ Culvert Worksheet

Detailed Engineering

- ☐ Bridge Repairs
- ☐ Construction Estimate Form #1
- ☐ Construction Estimate Form #2
- ☐ Construction Estimate Form #3
- ☐ Construction Estimate Form #4
- ☐ Construction Estimate Form #5
- ☐ Greater than 5 Construction Estimate Forms

Cruise

- ☐ Cruise Compilation (.txt or .dat in ascii format for original & reduction data)
- ☐ Cruise Analysis Form (District Staff Only)
- ☐ Tenure Info. (District Staff Only)
- ☐ BC Timber Sales (FS 574) (BSTC Staff Only)
- ☐ Extended Road Amortization
- ☐ Miscellaneous

If attaching individually, submit below.

	Electronic (Attached)	Paper Copy To Follow	NA	Attachment
Appraisal Map	❍	❍	●	
Approved Request for a Approval of a Road Use Charge	❍	❍	●	
Specified Operation				
A-frame Logging	❍	❍	●	
Blowdown Timber	❍	❍	●	
Single-Tree Selection	❍	❍	●	
Group Selection	❍	❍	●	
Skyline Logging	❍	❍	●	
Lake Transportation	❍	❍	●	
Skidder Swing	❍	❍	●	
Towing To Tie-up Grounds	❍	❍	●	
Camp Move	❍	❍	●	
Destumping	❍	❍	●	
Tree Crown Modification	●	❍	❍	Copy of TreeCrownMod_06May2015.xls
Culvert Worksheet	❍	❍	●	
Detailed Engineering				
Bridge Repairs	❍	❍	●	
Construction Estimate Form #1	❍	❍	●	
Construction Estimate Form #2	❍	❍	●	
Construction Estimate Form #3	❍	❍	●	
Construction Estimate Form #4	❍	❍	●	
Construction Estimate Form #5	❍	❍	●	
If there are more than 5 CEF's please attach the remainder as a ZIP file	❍	❍	●	
Engineering info to Support Detailed Engineering	❍	❍	●	
Extended Road Amortization	●	❍	❍	FS1423_Road Ammortization Agreement_06May2015_signed.pdf
Cruise				
Cruise Compilation (.txt or .dat in ascii format for original & reduction data)	●	❍	❍	Cruise Data.zip
Cruise Analysis Form (District Staff Only)	❍	❍	●	
Tenure Info. (District Staff Only)	❍	❍	●	
BC Timber Sales (FS 574) (BCTS Staff Only)	❍	❍	●	
Miscellaneous				

End Haul Data	●	❍	❍	End Haul Data.zip
LEC10 APPRAISAL MAP	●	❍	❍	LEC10 Appraisal Map Portrait.pdf
LEC10 FINAL CRUISE MAP	●	❍	❍	LEC10 Final Cruise Map.pdf
LEC APPRAISAL MAP	●	❍	❍	LEC7 Appraisal Map.pdf
LEC7 FINAL CRUISE MAP	●	❍	❍	LEC7 Final Cruise Map.pdf
LEC8 APPRAISAL MAP	●	❍	❍	LEC8 Appraisal Map.pdf
LEC8 FINAL CRUISE MAP	●	❍	❍	LEC8 Final Cruise Map.pdf
End Haul Support Table	●	❍	❍	Road Table LEC10.pdf
	❍	❍	●	

LIONS GATE
FOREST PRODUCTS LTD

Andrew Ashford, District Manager
Ministry of Forests, Lands and Natural resources
North Island Central Coast District
2217 Mine Road, PO Box 7000
Port McNeill, BC
V0N 2R0

August 11, 2015

REFERENCE: CUTTING PERMIT APPLICATION – T0629 CP 'AE'

Lions Gate Forest Products Ltd (LGFP) makes application for Cutting Permit (CP) 'AE'.

This CP application is comprised of 1 cut-block (LEC17) located in the East Creek Drainage.

The cut-block contained in this application are included in the Lemare Lions Gate FSP. The cut-blocks are entirely contained within T0629.

LGFP has notified the Quatsino and had a full information sharing session with Ralph Wallas, his team and Kathy DesRochers on May 14, 2014 regarding our plans for this area. During our information sharing it was determined that no Archaeological assessment would be required for the block LEC17. During the engineering and field work there were no heritage features or archaeological important features identified within our proposed cut blocks or along our roads in LEC17.

The roads required to access these blocks are approved under road permit R17089, and/or pending approval.

Included in this CP application are the following attachments (attached in ECAS):

- 1 copy of the signed CP application (this letter);
- 1:5,000 scale Appraisal Map(s);
- 1:5,000 scale Cruise Map(s);
- Cruise DAT Files;
- Cruise Compilations;
- 1:5,000 scale Road Construction Map;
- 1:5,000 scale Plot Map;
- Notification to First Nations (Quatsino) of intent to construct new roads and harvest cut-blocks within T0629;

Please note, all the above attachments were submitted into ECAS. The electronic submissions associated with this application are:

PO Box 1700.

Port McNeill, BC V0N 2R0

TEL (250) 956-3123 FAX (250) 956-4888 Email: office@lemare.ca

- ECAS id/submission # 72568
- ESF id/submission # 1440218

Please send the approval to Lions Gate Forest Products Ltd. Attention: Josh Hiebert

For further information, please contact the undersigned.

Regards,

Joshua Hiebert, RFT, ATC
Planning Manager
LIONS GATE FOREST PRODUCTS LTD.
3341 Mine Road – PO Box 1700
Port McNeill, B.C., Canada V0N 2R0
Telephone: (250) 956-3123
Fax: (250) 956-4888
Email: jhiebert@lemare.ca

LIONS GATE
FOREST PRODUCTS LTD

Andrew Ashford, District Manager
Ministry of Forests, Lands and Natural resources
North Island Central Coast District
2217 Mine Road, PO Box 7000
Port McNeill, BC
V0N 2R0

July 13, 2015

REFERENCE: CUTTING PERMIT APPLICATION – T0629 CP 'AD'

Lions Gate Forest Products Ltd (LGFP) makes application for Cutting Permit (CP) 'AD'.

This CP application is comprised of 3 cut-blocks (LEC7, LEC8 and LEC10) located in the East Creek Drainage.

The cut-blocks contained in this application are included in the Lemare Lions Gate FSP. The cut-blocks are entirely contained within T0629.

LGFP has notified the Quatsino and had a full information sharing session with Ralph Wallas, his team and Kathy DesRochers on May 14, 2014 regarding our plans for this area. During our information sharing it was determined that no Archaeological assessment would be required for the block LEC7, 8 or 10. During the engineering and field work there were no heritage features or archaeological important features identified within our proposed cut blocks or along our roads in LEC7,8 and 10.

The roads required to access these blocks are approved under road permit R17089, and/or pending approval.

Included in this CP application are the following attachments (attached in ECAS):

- 1 copy of the signed CP application (this letter);
- 1:5,000 scale Appraisal Map(s);
- 1:5,000 scale Cruise Map(s);
- Cruise DAT Files;
- Cruise Compilations;
- 1:5,000 scale Road Construction Map;
- 1:5,000 scale Plot Map;
- Notification to First Nations (Quatsino) of intent to construct new roads and harvest cut-blocks within T0629;

PO Box 1700.

Port McNeill, BC V0N 2R0

TEL (250) 956-3123 FAX (250) 956-4888 Email: office@lemare.ca

Please note, all the above attachments were submitted into ECAS. The electronic submissions associated with this application are:

- ECAS id/submission # 72255
- ESF id/submission # 1439791

Please send the approval to Lions Gate Forest Products Ltd. Attention: Josh Hiebert

For further information, please contact the undersigned.

Regards,

Joshua Hiebert, RFT, ATC
Planning Manager
LIONS GATE FOREST PRODUCTS LTD.
3341 Mine Road – PO Box 1700
Port McNeill, B.C., Canada V0N 2R0
Telephone: (250) 956-3123
Fax: (250) 956-4888
Email: jhiebert@lemare.ca

Verbrugge, Cheryl FLNR:EX

From: Josh Hiebert <jhiebert@lemare.ca>
Sent: Friday, August 14, 2015 4:32 PM
To: Birrell, Steve A FLNR:EX
Cc: Elliott, Terry C FLNR:EX; Connon, Hugh J FLNR:EX; Mathieu, Phil FLNR:EX
Subject: RE: ECAS 72255 T0629 CP AD Appraisal Issue re EH

There is a chainage equation due to crew starting the traverse at the wrong station from the existing road. I can right and sign a rationale that could be attached within the end haul data if that would suffice. The map is the corrected stations to match fta,
If you require all the road to be redesigned I can have them complete that and send back with clarify
Thanks
Josh

From: Birrell, Steve A FLNR:EX [mailto:Steve.Birrell@gov.bc.ca]
Sent: August-14-15 11:20 AM
To: Josh Hiebert <jhiebert@lemare.ca>
Cc: Elliott, Terry C FLNR:EX <Terry.Elliott@gov.bc.ca>; Connon, Hugh J FLNR:EX <Hugh.Connon@gov.bc.ca>; Mathieu, Phil FLNR:EX <Phil.Mathieu@gov.bc.ca>
Subject: ECAS 72255 T0629 CP AD Appraisal Issue re EH

Josh, the EH data (xsections, volume stations and haul distances) for all the EH being claimed on BR60 is off by + 42m.

Please clarify, Steve.

TIMBER LICENCE T0629

CUTTING PERMIT AD

Ministry of Forests, Lands and Natural Resource Operations

PURSUANT TO Timber Licence T0629 (the "Licence") this Cutting Permit is issued to:

LIONS GATE FOREST PRODUCTS LTD.
POST OFFICE BOX 1700
PORT MCNEILL, BRITISH COLUMBIA
V0N 2R0
(the "Licensee")

1.00 PERMIT AREA AND TERM

1.01 Subject to the Licence and the forestry legislation, the Licensee is authorized to cut and remove timber from the areas of land within the harvest areas, **Cutblocks LEC7, LEC8 and LEC10,** as delineated and shown on the attached Exhibit A maps.

1.02 Subject to Paragraph 1.03, and the term of the Licence, the term of this Cutting Permit begins on **September 17, 2015** and expires **April 26, 2018**.

1.03 Provided the Licence does not prohibit extensions, the District Manager may extend the term of this Cutting Permit in accordance with section 58.1 of the *Forest Act*.

1.04 Notwithstanding Paragraph 1.03, the term of this Cutting Permit will not exceed 4 years.

1.05 The Licensee must make application for an extension of this Cutting Permit to the District Manager at least 60 days before the expiry of the Cutting Permit and in a form acceptable to the District Manager.

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 TIMBER HARVESTING AND WASTE ASSESSMENT

3.01 The Licensee must not fell standing timber, or must not buck or remove felled or dead and down timber, as the case may be, if:

(a) the timber is specified as reserved timber in Paragraph 3.02 of this Cutting Permit; or

(b) under an applicable operational plan or the forestry legislation, the Licensee must not fell, buck or remove the timber, for silviculture, biodiversity or other forest management reasons.

3.02 The following timber is specified as reserved timber:

See Schedule B.

3.03 Subject to Paragraph 3.01, all timber that meets or exceeds the merchantability specifications set out in the Waste Assessment Manual and that is not removed by the Licensee may be identified in an assessment described in Paragraph 3.04 of this Cutting Permit and the volume of that timber, whether standing or felled, that could have been removed under the Licence, but which is not removed may be dealt with as if it had been removed for the purposes of calculating stumpage.

3.04 For the purpose of conducting the assessment of the volume of timber that was not removed, but which could have been removed as described in Paragraph 3.03 and for the purpose of determining the volume of timber that is waste for the purposes of Paragraph 3.05:

(a) the Licensee must conduct an assessment in accordance with the current Waste Assessment Manual after the Licensee has declared that primary logging (felling timber and yarding or forwarding the timber to central landings or road sides, but does not include removing the timber) has been completed for the Cutting Permit; or

(b) the District Manager may conduct an assessment in accordance with the current Waste Assessment Manual after the expiry of the term of the Cutting Permit or Licence or the Licence and/or Cutting Permit otherwise being terminated, whichever occurs first.

3.05 The District Manager, in a notice given to the Licensee, may require the Licensee to pay in respect of the volume of timber determined under Paragraph 3.04, a monetary waste assessment for all timber, whether standing or felled, that could have been removed under the Licence, but is not removed, and that meets or exceeds the merchantability specifications as set out in the current Waste Assessment Manual.

4.00 TIMBER MARK

4.01 The timber mark(s) for this Cutting Permit is/are:

TATVAD

4.02 The Licensee shall erect signs at all exits from the harvest area, clearly showing the timber mark(s) referred to in Paragraph 4.01.

5.00 SCALE BASED STUMPAGE

5.01 For the purpose of determining the amount of stumpage payable in respect of timber removed from the harvest area, the volume or quantity of timber removed will be determined using information provided in a scale of the timber.

5.02 The Licensee must ensure that:

(a) all timber removed from the harvest area 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.

5.03 Immediately upon receipt of a notice, statement or invoice issued on behalf of the Crown, the Licensee must pay stumpage under Part 7 of the *Forest Act* at rates determined, redetermined and varied under section 105 of that Act for all timber removed from the harvest area or not removed and identified under part 3.00 of this Cutting Permit.

6.00 LEGISLATIVE FRAMEWORK

6.01 This Cutting Permit is subject to:

(a) the *Forest Act;*

(b) the *Forest Practices Code of British Columbia Act;*

(c) the *Forest and Range Practices Act*; and

(d) the regulations and standards made under those Acts.

6.02 The Licensee must:

(a) comply with the forestry legislation; and

(b) ensure that its employees, agents and contractors comply with the forestry legislation when engaging in or carrying out activities or operations under or associated with this Cutting Permit.

6.03 Nothing in this Cutting Permit is to be construed as authorizing the Licensee to cut or remove timber or engage in or carry out any other forest practices until all applicable operational plans for both the harvest area and any corresponding roads have been prepared or approved by the District Manager.

6.04 Nothing in this Cutting Permit is to be construed as authorizing the Licensee to carry out any operations or engage in any activities otherwise than in accordance with the requirements of the forestry legislation.

7.00 ROADS

7.01 The Licensee must ensure that all roads constructed or modified by or on behalf of the Licensee on the harvest area are:

(a) identified on a forest development plan or a forest stewardship plan and authorized under a road permit; or

(b) authorized under Paragraph 7.02.

7.02 Subject to the Licence and forestry legislation, the Licensee may construct or modify roads under the authority of this Cutting Permit on the harvest area if the roads are:

(a) identified on a logging plan;

(b) wholly contained within a cut block identified on a forest development plan; and

(c) not identified on a forest development plan or a forest stewardship plan as providing access to more than one cut block.

7.03 Subject to Paragraph 7.04, a road referred to in Paragraph 7.02 may be used for non-industrial purposes by any person without charge.

7.04 The Licensee may close or restrict use of a road referred to in Paragraph 7.02, if:

(a) in the opinion of the District Manager, activities or operations under or associated with this Cutting Permit represent a danger to life or property;

(b) the District Manager consents to the closure or restriction; and

(c) the Licensee complies with any directions of the District Manager with respect to the closure or restriction, including directions regarding the location and marking of gates and the posting of warning notices.

8.00 MISCELLANEOUS

8.01 The Schedules and Exhibit "A" map(s) attached to this Cutting Permit are deemed to be part of this Cutting Permit.

8.02 This Cutting Permit is deemed to be part of the Licence.

8.03 The Licence will govern the interpretation of this Cutting Permit.

8.04 The Licensee must notify the District Manager in writing in a form acceptable to the District Manager, when all harvest related obligations are complete.

9.00 INTERPRETATION

9.01 In this Cutting Permit:

"forestry legislation" means the legislation outlined in Paragraph 6.01 of this Cutting Permit;

"harvest area" means the area or areas allocated for the activities conducted by the Licensee pursuant to the Licence and this Cutting Permit and which for greater detail are outlined on the attached Exhibit "A" map(s);

"remove" means the removal of timber from the harvest area and "removed" and "removing" have the corresponding meanings;

"total merchantable area" means the total merchantable area as indicated in the appraisal for this cutting permit.

"waste" means timber, whether standing or felled, that could have been removed under the Cutting Permit but was not removed, and which meets or exceeds the specifications of timber merchantability as stated in the Waste Assessment Manual, and as determined in accordance with the Waste Assessment Manual; and

"Waste Assessment Manual" means the "Provincial Logging Residue and Waste Measurement Procedures Manual".

Signing on behalf of
Andrew Ashford, DM

2015.09.17
13:10:50 -07'00'

Andrew Ashford, RPF, District Manager
North Island – Central Coast Forest District

SCHEDULE A

SPECIAL CONDITIONS AND REQUIREMENTS

1.00 ORDERLY CONDITIONS

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

2.00 HAZARD TREES

2.01 The Licensee may cut and remove hazard trees from within fifty (50) metres of the boundaries of the cutblocks' total merchantable area.

2.02 The Licensee may fell trees outside of the cutblocks' boundaries but within the area described in Paragraph 2.01 if the person conducting tree felling or rigging tail hold/anchor trees determines that the tree represents a safety hazard according to the Worker's Compensation Board standards.

2.03 Trees felled under Paragraph 2.01 and Paragraph 2.02 shall be bucked and utilized according to the specifications included in the Licence and/or Cutting Permit.

3.00 TREE CROWN MODIFICATION

3.01 The Licensee may cut, damage or modify the crowns of the trees located outside the boundaries of the total merchantable area of the cutblocks identified on the attached Exhibit "A" maps and the locations of those specified trees are indicated coloured in pink and identified as "Windfirm" in the legend on the appraisal maps attached to the appraisal for this cutting permit. The purpose of the modification of the crowns of the aforementioned trees is to reduce the risk of damage by wind and hence windfallen timber at the cutblocks' boundaries and beyond.

4.00 OTHER RIGHTS

4.01 The Licensee's rights under this Permit are subject to any other rights of use and occupation over the Permit Area and the Clearing Area which the Crown has granted to third parties and the Licensee covenants not to obstruct or impede a third party in their authorized use or occupation of these areas.

4.02 Except where a mineral reserve established under section 22 (2) of the *Mineral Tenure Act* allows otherwise, the Licensee covenants and agrees not to obstruct or impede the use of tenures which have been, or which may be, issued to third parties under the *Mineral Tenure Act*.

4.03 In consideration of the foregoing, the Licensee agrees to indemnify and save harmless the Crown from and against all claims for loss or damage, whether caused by the Licensee's acts or omissions, including losses or damages arising out of the Licensee's interference or obstruction of a third party's authorized use, or occupation of the Permit Area or Clearing Area.

SCHEDULE B

RESERVED TIMBER

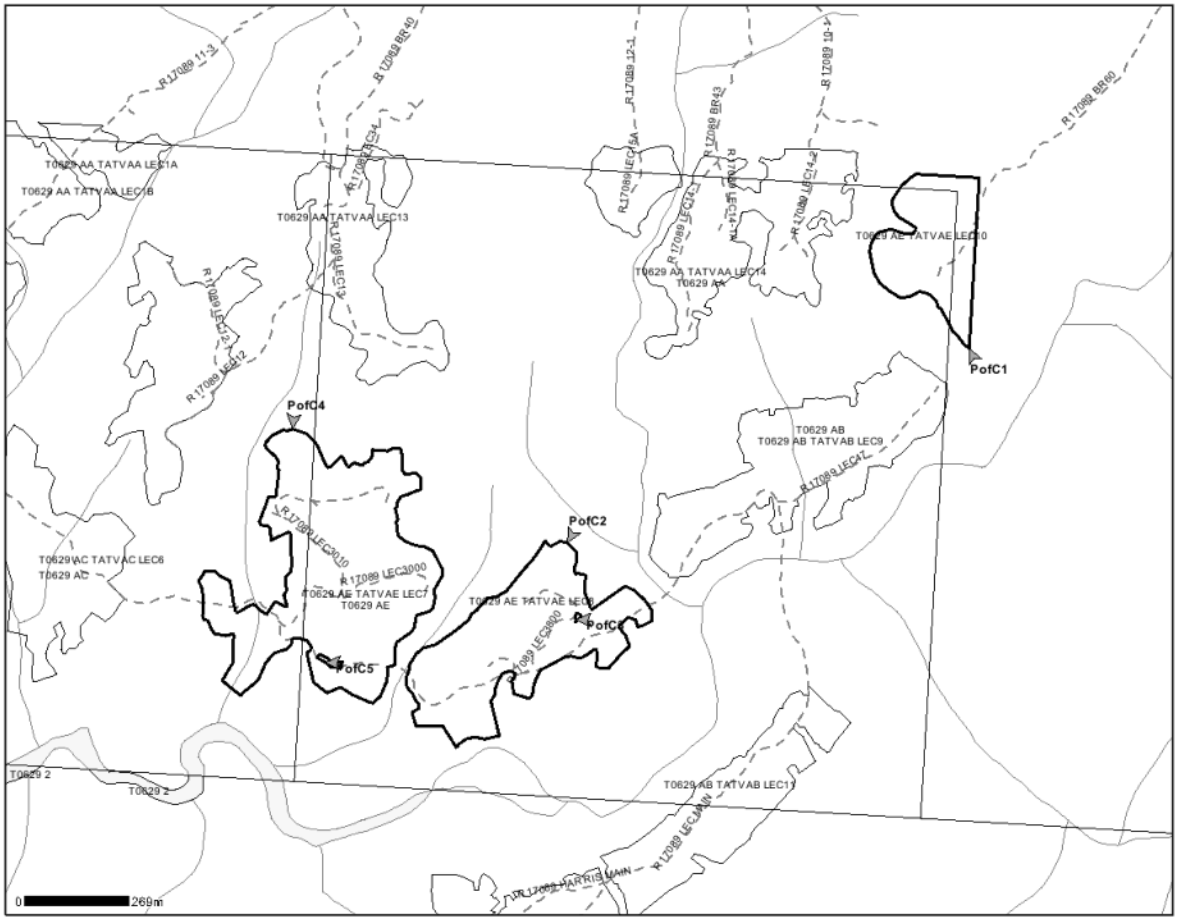
The following is specified as reserved timber under this cutting permit:

The areas cross-hatched in teal green identified as TLA(Timbered Leave Area) in the legend and the areas coloured in light green and the areas coloured in light green with dark green specks identified as WTRA(Wildlife Tree Retention Area) in the legend indicated on the appraisal maps attached to the appraisal for this cutting permit.

BRITISH COLUMBIA

EXHIBIT A

MAP OF : T0629 CP AD (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RUPERT DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : Outside Managed Units MGT UNIT NO :
ESF SUBMISSION ID : 1439791 BCGS MAPSHEET NO : 92L.022	SCALE : 1:15000 at A Size Area (Ha): 45.293	UTM : 9 NAD : NAD 83	DRAWN BY : FTA DATE : Jul 24, 2015



Legend

- Tenure Application
- Tenure Road Application
- Retired Tenure Road
- P of C
- P of T
- Tenure Feature
- Range
- TFL
- Provincial Forest
- Forest Service Road
- Highway
- Municipal Road
- Non Status Road
- Recreation Trails
- Road Permit
- SUP Road
- Right of Way
- Schedule B CP Road
- Mineral Tenure Points
- Cities
- Waterbodies
- River/Stream
- Coastline / Island

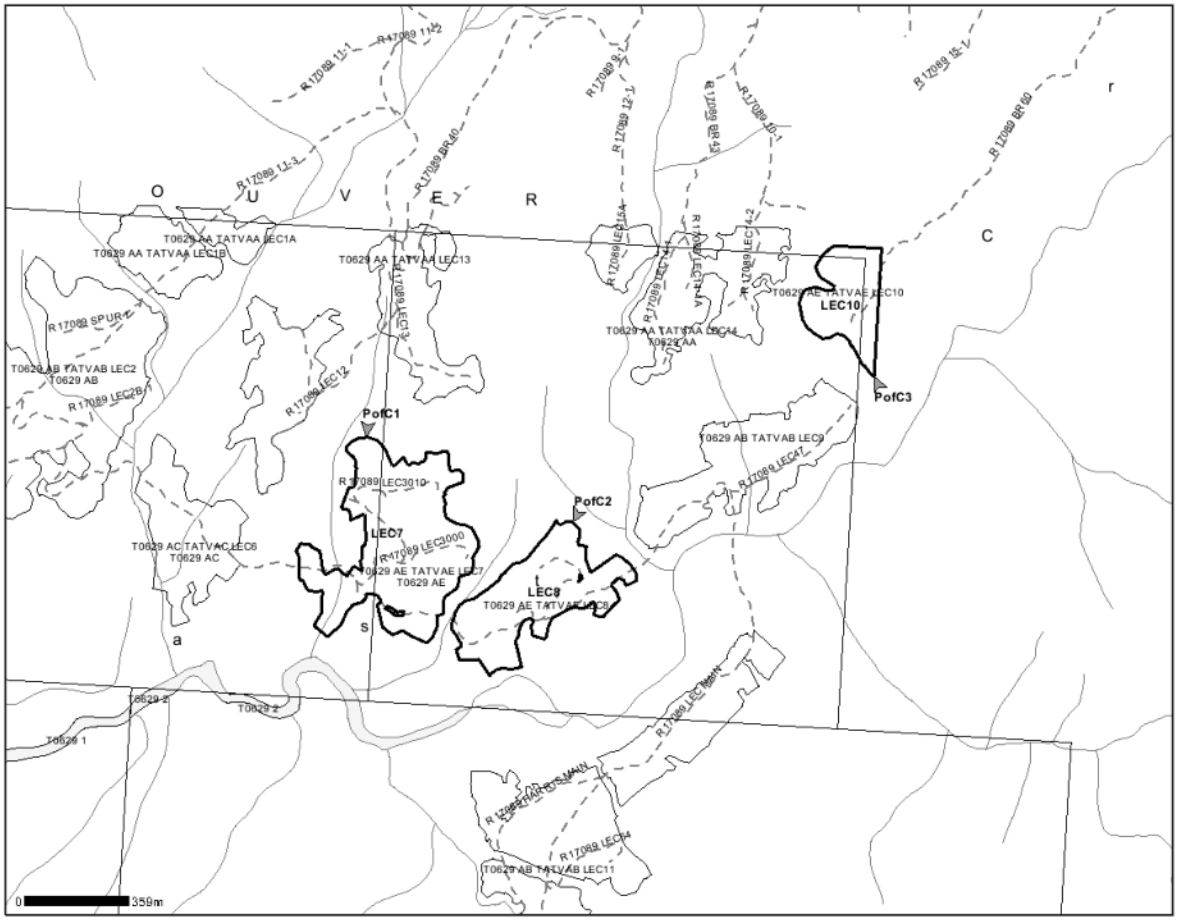
(45.293 Ha)
PofC1 UTM9 595328, 5568045
PofC2 UTM9 594319, 5567505
PofC3 UTM9 594349, 5567309
PofC4 UTM9 593602, 5567767
PofC5 UTM9 593711, 5567173

BRITISH COLUMBIA

MINISTRY OF FORESTS, LANDS AND NATURAL RESOURCE OPERATIONS

EXHIBIT A

MAP OF : T0629 CP AD (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RUPERT DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : Outside Managed Units MGT UNIT NO :
ESF SUBMISSION ID : 1439791 BCGS MAPSHEET NO : 92L.022	SCALE : 1:20000 at A Size Area (Ha): 45.293	UTM : 9 NAD : NAD 83	DRAWN BY : FTA DATE : Jul 24, 2015



Legend

- Tenure Application
- Tenure Road Application
- Retired Tenure Road
- P of C
- P of T
- Tenure Feature
- Range
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- Right of Way
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- Mineral Tenure Points
- Cities
- Waterbodies
- River/Stream
- Coastline / Island

LEC7 (23.353 Ha)
PofC1 UTM9 593602, 5567767
PofC2 UTM9 593711, 5567173
LEC8 (14.259 Ha)
PofC3 UTM9 594319, 5567505
PofC4 UTM9 594349, 5567309
LEC10 (7.681 Ha)
PofC5 UTM9 595328, 5568045

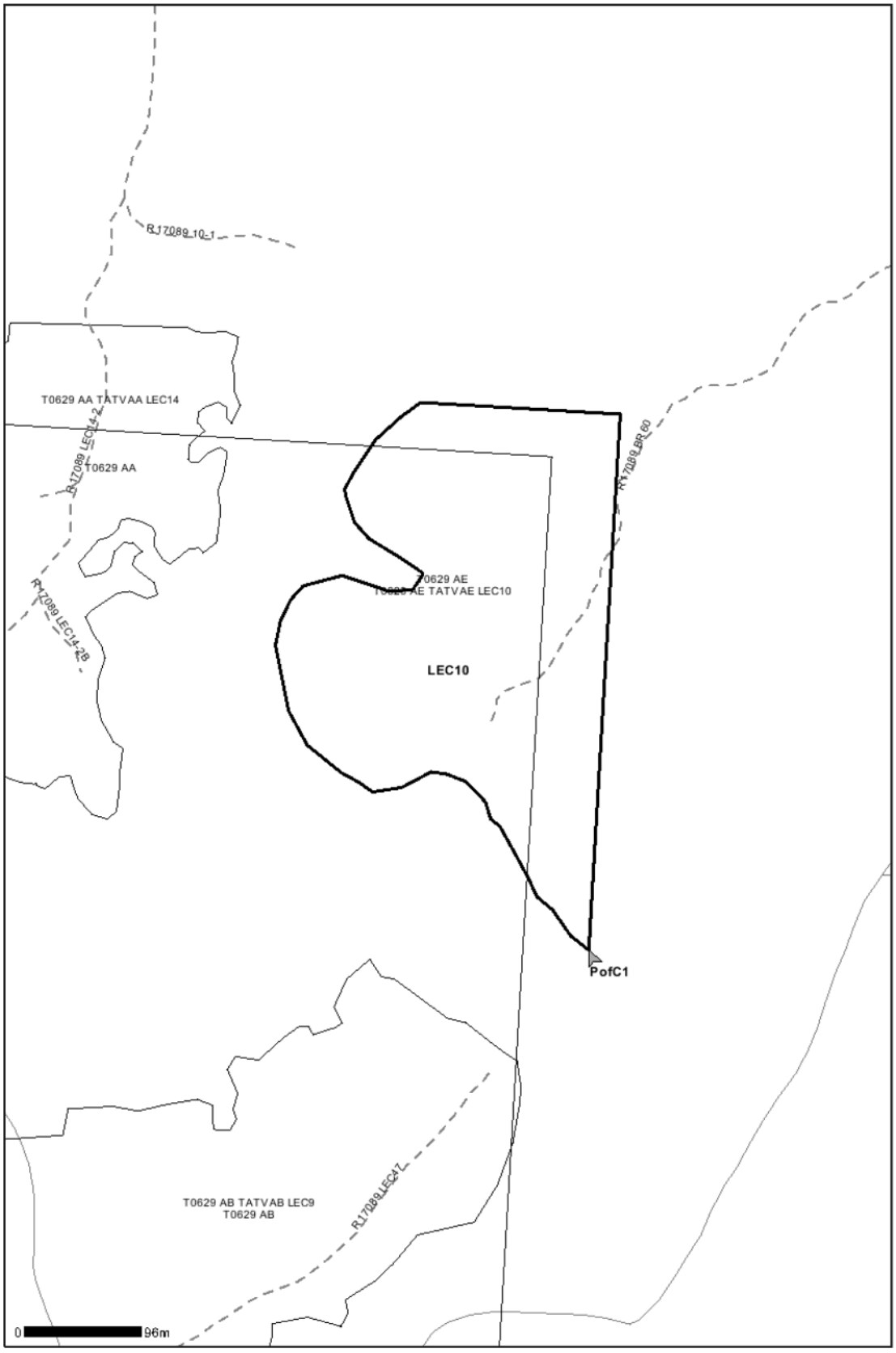
Inside Timber Licence T0629.
Timber Licence boundary is being displayed slightly off in this area
Save and Except the prior rights of R17089

REVIEWED
By Cyndi Schofield at 10:17 am, Aug 07, 2015

BRITISH COLUMBIA

EXHIBIT A

MAP OF : T0629 CP AD CB LEC10 (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RUPERT DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : Outside Managed Units MGT UNIT NO :
ESF SUBMISSION ID : 1439791 BCGS MAPSHEET NO : 92L.022	SCALE : 1:5000 at A Size Area (Ha): 7.681	UTM : 9 NAD : NAD 83	DRAWN BY : FTA DATE : Jul 24, 2015



Legend

- Tenure Application
- Tenure Road Application
- Retired Tenure Road
- P of C
- P of T
- Tenure Feature
- Range
- TFL
- Provincial Forest
- Forest Service Road
- Highway
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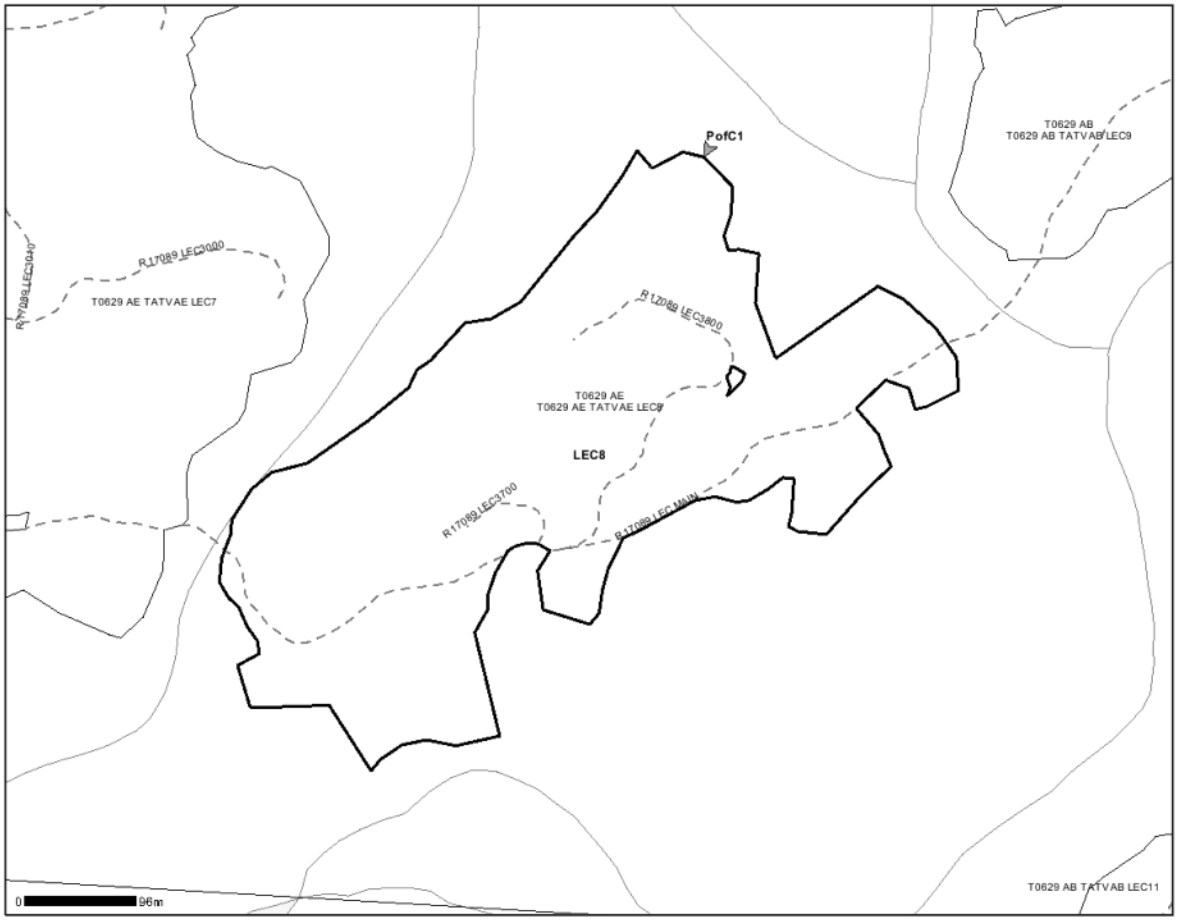
- Non Status Road
- Recreation Trails
- Road Permit
- SUP Road
- Right of Way
- Schedule B CP Road
- Mineral Tenure Points
- Cities
- Waterbodies
- River/Stream
- Coastline / Island

LEC10 (7.681 Ha)
PofC1 UTM9 595328, 5568045

BRITISH COLUMBIA

EXHIBIT A

MAP OF : T0629 CP AD CB LEC8 (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RUPERT DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : Outside Managed Units MGT UNIT NO :
ESF SUBMISSION ID : 1439791 BCGS MAPSHEET NO : 92L.022	SCALE : 1:5000 at A Size Area (Ha): 14.259	UTM : 9 NAD : NAD 83	DRAWN BY : FTA DATE : Jul 24, 2015



Legend

- Tenure Application
- Tenure Road Application
- Retired Tenure Road
- P of C
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- Tenure Feature
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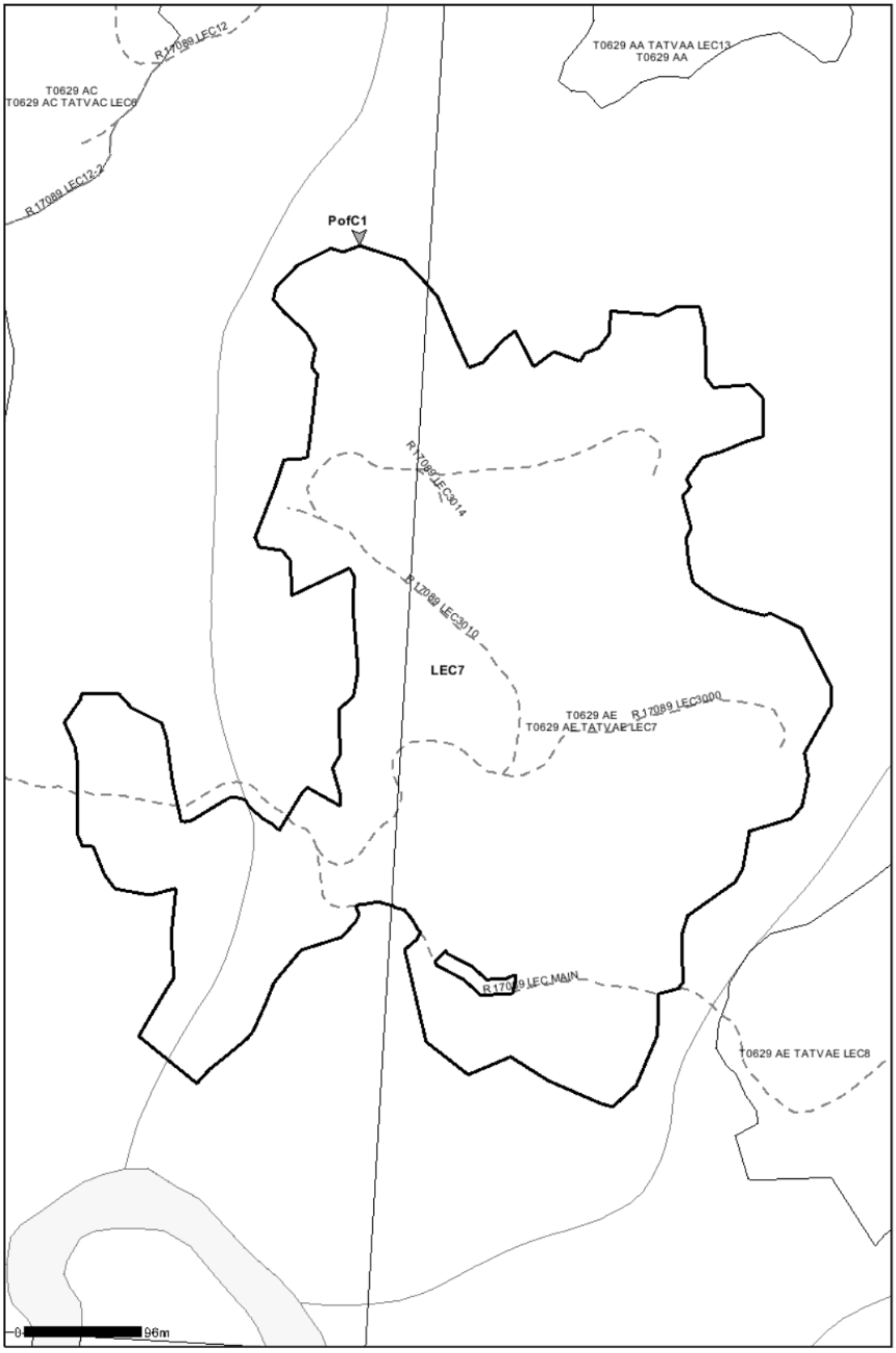
- TFL
- Provincial Forest
- Forest Service Road
- Highway
- Municipal Road
- Non Status Road
- Recreation Trails
- Road Permit
- SUP Road
- Right of Way
- Schedule B CP Road
- Mineral Tenure Points
- Cities
- Waterbodies
- River/Stream
- Coastline / Island

LEC8 (14.259 Ha)
PofC1 UTM9 594319, 5567505
PofC2 UTM9 594349, 5567309

BRITISH COLUMBIA

EXHIBIT A

MAP OF : T0629 CP AD CB LEC7 (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RUPERT DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : Outside Managed Units MGT UNIT NO :
ESF SUBMISSION ID : 1439791 BCGS MAPSHEET NO : 92L.022	SCALE : 1:5000 at A Size Area (Ha): 23.353	UTM : 9 NAD : NAD 83	DRAWN BY : FTA DATE : Jul 24, 2015



Legend

- Tenure Application
- Tenure Road Application
- Retired Tenure Road
- P of C
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- Forest Service Road
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- Right of Way
- Schedule B CP Road
- Mineral Tenure Points
- Cities
- Waterbodies
- River/Stream
- Coastline / Island

LEC7 (23.353 Ha)
PofC1 UTM9 593602, 5567767
PofC2 UTM9 593711, 5567173

LIONS GATE FOREST PRODUCTS LTD

LOCATION: Lower East Creek
BLOCK NAME: LEC11
ROAD NAME: Harris Main
DRAWN BY: M. Cottone
DATE: 2015-02-18

Possible
FULL BENCH ENDHAUL:

0+179 to 0+264

Cut Volume Total = 1606.8
Fill Volume Total =0.0
EH = 100%

Average Uphill Sideslope = 47%
Construction Category = CC5

***Note - Road grade crosses through mutliple draws within prescribed section of Full Bench Endhaul and require fill. Fill volumes will consist of controlled placement of coarse, angular rock and have not been included in endhaul calculations.**

Profile Vert Scale 1:200
Profile Horiz. Scale 1:2000

LEGEND

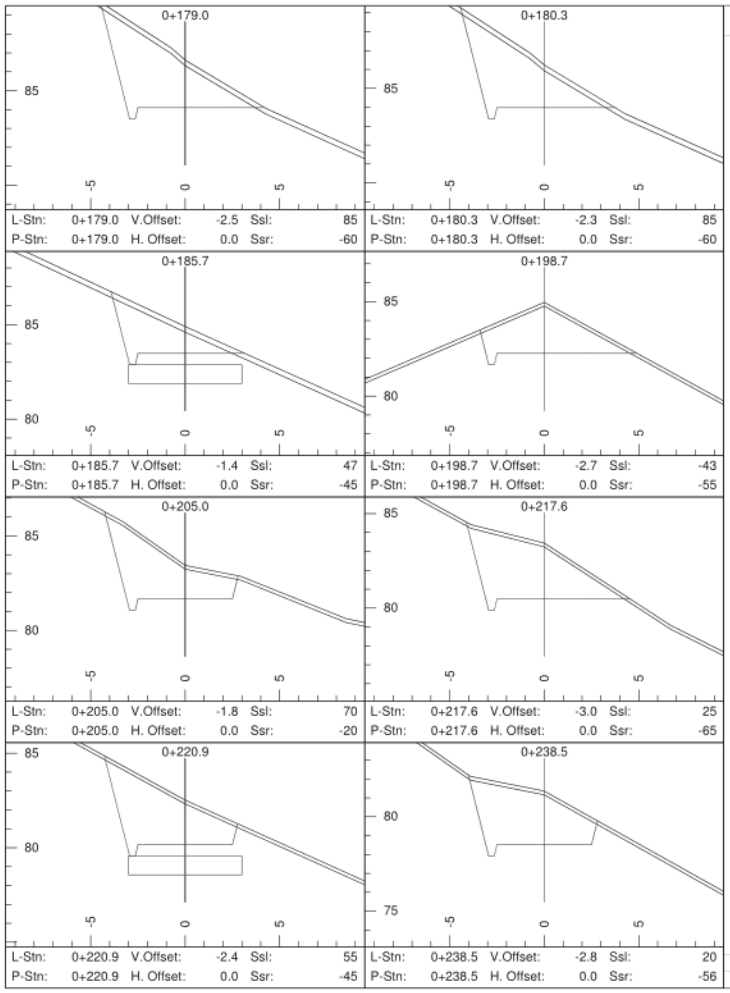
Profile Topography

Design Grade

Profile Culverts

STRATEGIC

15/02/18



P-Stn m.	Ssl %	Ssr %	SG Cut V. Cu. m.	SG Fill V. Cu. m.	Mass H. Cu. m.
0+178.0	85	-60	21.1	0.0	1018.4
0+179.0	85	-60	24.8	0.0	1039.5
0+180.3	85	-60	76.3	0.0	1064.3
0+185.7	47	-45	154.0	0.0	1140.6
0+198.7	-43	-55	84.7	0.0	1294.6
0+205.0	70	-20	218.9	0.0	1379.3
0+217.6	25	-65	61.3	0.0	1598.2
0+220.9	55	-45	302.9	0.0	1659.5
0+238.5	20	-56	150.0	0.0	1962.4
0+248.9	35	-55	74.8	0.0	2112.5
0+256.7	35	-55	97.7	0.0	2187.3
0+264.0	15	-70	17.8	0.0	2285.0
0+265.0	15	-70			2302.8
Pg. Tot.			1284.5	0.1	
Cum. Tot.			2562.9	260.1	

BRITISH COLUMBIA

Ministry of Forests, Lands and Natural Resource Operations

COAST APPRAISAL DATA SUBMISSION

Licence		**Cutting Permit**		**Primary Timber Mark**	TATVAD
ECAS ID	72255			**ECAS Status**	Received

ACKNOWLEDGEMENTS

This Appraisal Data Submission is prepared in accordance with the *Coast Appraisal Manual* as of this date with truthful information on the timber to be harvested, site conditions, harvesting, development, silviculture plans, and other information.

If the R.P.F. or R.F.T. is not a staff member of the Licensee, then the

Licensee Representative is:

Name: Hiebert, Josh M

Phone: (250)956-3123

Fax:

E-mail Address: jhiebert@lemare.ca

Registered Professional Forester/Registered Forest Technologist:

Select one of the options below

- ○ I certify I personally completed the work described herein.
- ● I certify that the work described herein fulfills 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 Britsh Columbia Forest Professionals.

Name: Hiebert, Joshua **R.P.F./R.F.T. #:** 0556

Phone: (250)956-3123 **Fax:** **Registered Forest Technologist:** P

E-mail Address: JHIEBERT@LEMARE.CA

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

REFERENCE INFORMATION

Licensee Name: | **ECAS Status:** Received

Timber Mark	Timber Mark Cruise Vol. (m^3)	Primary Mark
TATVAD	23,408	P

Geographic Forest District: DNI - North Island - Central Coast Natural Resource District

Administrative Forest District: DNI - North Island - Central Coast Natural Resource District

TSA: 33 - Kingcome TSA | **File Type:** A06 - Timber Licence

TSB: 33A - Kingcome TSA Brooks Block | **NRFL Bonus Bid:** $/$m^3$

Major Centre Distance: 176 km | **POA Distance:** 316 km

Appraisal Type: ● New Appraisal ○ Reappraisal

Reappraisal Reason:

Appraisal Effective Date: 2015-07-20 | **Appraisal Expiry Date:** 2018-04-26

Total Net Cruise Volume: 23408 m^3 | **Single Tree Selection Cruise Grades:** ☐

Single Tree Selection Volumes: 0 m^3 | **Is Second Growth Coniferous Volume >= 80% of Total Coniferous Volume:** ☐ 0%

Net Volume Second Growth Coniferous: 0 m^3 | **Total Coniferous Volume:** 23291 m^3

Sampling Error % (at 2 standard deviations): 17.5 %

Rate Calculation Method: ○CVP ● MPS

Volume by Species

Species	Volume (m^3)
Alder	117
Balsam	1483
Cedar	12134
Cypress	312
Hemlock	9362

Amendments Since Last Cruise Compilation

Block	Approval Date	Additions (ha)	Deletions (ha)
	Totals		

Initial Merchantable Area: (record to nearest 0.1 ha) 33.4 ha

Net Amendments: 0.0 ha

Total Merchantable Area: 33.4 ha

Appraisal Year	Area Logged (ha)
2015	0

OPERATING COST INFORMATION

Tree To Truck Cost Estimates

Average Side Slope: 49 %

CP Avg. Vol. / Log: 1.01 m^3

Conventional Logging

Cable Yarding:	17424 m^3
Ground Systems:	5984 m^3
Skyline > 600m:	0 m^3
NHSVPH:	697.76 m^3 /ha

Helicopter Logging

Land Drop:	0 m^3
Water Drop:	0 m^3
Total Helicopter:	0 m^3
Heli Single Standing Stem Selection:	0 m^3
Heli Selection (excludes HSSSS):	0 m^3

Log Transportation Estimates

Truck Hauling

Average Truck Hauling Distance: 8.0 km (nearest 0.1 km)

Approved Road Use Charge: $/$m^3$

Point of Appraisal: ALBE - Alberni

Water Transportation

Point of Origin: CLCK - Cleagh Creek

2nd Point Of Origin:

Administration and Other Estimates

Routine Road Management: ● Yes ○ No

The licensee incurs the Basic Silviculture Cost? ● Yes ○ No

Weighted Crew Transportation Distance: 20.7 km (nearest 0.1 km)

Is the Cutting Permit Accessible? ● Yes ○ No

OPERATING COST INFORMATION

Specified Operations

Description	Rate $/ m^3
Tree Crown Modification	1.89
COMMENTS:	

OPERATING COST INFORMATION

Road Development Check

Cut Block / Road Name	Station Start	Station End	Type	Road Section Partial Percent
BR60	0	2841	Road Recon 1	
BR60	2841	2873	Road	
BR60	2873	2898	End Haul	100
BR60	2898	2938	Road	
BR60	2938	2978	End Haul	100
BR60	2978	3238	Road	
BR60	3238	3258	End Haul	100
BR60	3258	3896	Road	
BR60	3896	3998	End Haul	100
BR60	3998	4031	Road	
BR60	4031	4128	End Haul	100
BR60	4128	4134	Road	
BR60	4134	4170	End Haul	100
BR60	4170	4238	Road	
BR60	4238	4278	End Haul	100
BR60	4278	4310	Road	
BR60	4310	4330	End Haul	100
BR60	4330	4368	Road	
EAST CREEK MAINLINE	5735	7218	Road Recon 1	
LEC3000	0	312	Road	
LEC3000	312	317	Bridge	0
LEC3000	317	420	Road	
LEC3000	420	425	Bridge	0
LEC3000	425	520	Road	
LEC3010	0	517	Road	
LEC3010	517	522	Bridge	0
LEC3010	522	659	Road	
LEC3010	528	550	End Haul	100
LEC3012	0	29	Road	
LEC3014	0	37	Road	
LEC3014	0	175	Road	
LEC3700	0	99	Road	
LEC3800	175	183	Bridge	0
LEC3800	183	329	Road	
LEC3800	329	335	Bridge	0
LEC3800	335	410	Road	

OPERATING COST INFORMATION

Development Cost - Culverts (Metal)

Circular Type		Crown %	Amortized %	Appraisal Year
Diameter	Total Length For Diameter			

Development Cost - Culverts (Wooden)

Number	Crown %	Amortized %	Appraisal Year	Unit Cost ($/Unit)
55	100	100	2015	1000

OPERATING COST INFORMATION

Appraised Roads

Road Name
BR60
EAST CREEK MAINLINE
LEC3000
LEC3010
LEC3012
LEC3014
LEC3700
LEC3800

OPERATING COST INFORMATION

Development Cost - New Construction Detailed Engineering

Cost Estimate Identifier	Road Length (km)	Crown %	Amortized %	Total Cost ($)	Appraisal Year	Comments
1	1.000	100	100	250000	2015	Extended Road Ammortizati
EH	0.402	100	100	119368	2015	

Total for 2015: 1.402 km $ 369368

Total Cost New Construction: $ 369368

Development Cost - Reconstruction & Replacement Detailed Engineering

Cost Estimate Identifier	Road Length (km)	Crown %	Amortized %	Total Cost ($)	Appraisal Year	Comments
RR	4.324	100	100	75583	2015	

Total for 2015: 4.324 km $ 75583

Total Cost Reconstruction & Replacement: $ 75583

BC TIMBER SALES

Sale Date: _____ **Sale Term:** _____ years _____ months **Sale Type:** _____

	Override Levy ($/ m^3)
Development Levy Applicable:	
Silviculture Levy Applicable:	

Bonus Bid: 0.00 **$/$m^3$**

Rate Adjustment Type: ❍ Fixed ● Adjustable

Upset stumpage rate under the CAM:

a) Section 6.1.1 (2): ❍ Yes ● No

b) Section 6.1.1 (3): ❍ Yes ● No

If yes to either a or b enter the variable cost to prepare the timber for sale: _____ $/$m^3$

Upset Stumpage Rate Selection

a) Old Growth: ❍ Yes ● No

b) Second Growth: ❍ Yes ● No

Upset Stumpage Rate Advertised: _____ $/m

Total Volume for the Licence: 23408 m^3

Total Road Length: 2.872 km (nearest 0.001 km)

Road Length Constructed by Licensee: _____ km (nearest 0.001 km)

CONTROL

Forest District

TOA Eligible:	❍ Yes ❍ No
Was the Appraisal Data Field Checked:	❍ Yes ● No
Was the CP Check Cruised:	❍ Yes ● No
Appraisal Data Submission Has Been Validated Against FTA:	☐

Data Submission Reviewed By	Email	Date Submitted	Date Received
Connon, Hugh	hugh.connon@gov.bc.ca	2015-07-21	2015-07-21

Forest Region

Adjust Quarterly:	❍ Yes ❍ No
TOA Miscellaneous Cost:	
MPS/CVP Differential:	_____ $/m

Reviewed By	Email	Date Sent To Region	Date Transferred To GAS	ECAS Status
				RCD

Verbrugge, Cheryl FLNR:EX

From: Josh Hiebert <jhiebert@lemare.ca>
Sent: Monday, January 4, 2016 1:16 PM
To: Birrell, Steve A FLNR:EX
Cc: Elliott, Terry C FLNR:EX; Connon, Hugh J FLNR:EX; Mathieu, Phil FLNR:EX
Subject: RE: ECAS 75691 CP AF Detailed Eng. Review

Please return for clarify and I will send updated maps

From: Birrell, Steve A FLNR:EX [mailto:Steve.Birrell@gov.bc.ca]
Sent: December-22-15 11:51 AM
To: Josh Hiebert <jhiebert@lemare.ca>
Cc: Elliott, Terry C FLNR:EX <Terry.Elliott@gov.bc.ca>; Connon, Hugh J FLNR:EX <Hugh.Connon@gov.bc.ca>; Mathieu, Phil FLNR:EX <Phil.Mathieu@gov.bc.ca>
Subject: ECAS 75691 CP AF Detailed Eng. Review

Hi Josh, please clarify where the EH on LEC15A is being spoiled. The Appraisal Map shows the Spoil Site on LEC15A at 0+000 to 0+020, but on the ECAS39 EH screen it is has it at BR40 3+500. Please provide an appropriate map if it is on BR40. If it is located where shown on the Appraisal Map then the Haul Distance will need correction. This submission does not have a TSA to justify the EH.

The rest of this submission will not be reviewed until after the New Year, so no action is required until then. Steve

LIONS GATE
FOREST PRODUCTS LTD

Andrew Ashford, District Manager
Ministry of Forests, Lands and Natural resources
North Island Central Coast District
2217 Mine Road, PO Box 7000
Port McNeill, BC
V0N 2R0

July 13, 2015

REFERENCE: CUTTING PERMIT APPLICATION – T0629 CP 'AD'

Lions Gate Forest Products Ltd (LGFP) makes application for Cutting Permit (CP) 'AD'.

This CP application is comprised of 3 cut-blocks (LEC7, LEC8 and LEC10) located in the East Creek Drainage.

The cut-blocks contained in this application are included in the Lemare Lions Gate FSP. The cut-blocks are entirely contained within T0629.

LGFP has notified the Quatsino and had a full information sharing session with Ralph Wallas, his team and Kathy DesRochers on May 14, 2014 regarding our plans for this area. During our information sharing it was determined that no Archaeological assessment would be required for the block LEC6 and a PFR was completed for LEC4 s.18 s.18 , and the Quatsino had no further concerns with our plans. During the engineering and field work there were no heritage features or archaeological important features identified within our proposed cut blocks or along our roads in LEC6.

The roads required to access these blocks are approved under road permit R17089, and/or pending approval.

Included in this CP application are the following attachments (attached in ECAS):

- 1 copy of the signed CP application (this letter);
- 1:5,000 scale Appraisal Map(s);
- 1:5,000 scale Cruise Map(s);
- Cruise DAT Files;
- Cruise Compilations;
- 1:5,000 scale Road Construction Map;
- 1:5,000 scale Plot Map;

PO Box 1700.

Port McNeill, BC V0N 2R0

TEL (250) 956-3123 FAX (250) 956-4888 Email: office@lemare.ca

- Notification to First Nations (Quatsino) of intent to construct new roads and harvest cut-blocks within T0629;

Please note, all the above attachments were submitted into ECAS. The electronic submissions associated with this application are:

- ECAS id/submission # 72255
- ESF id/submission # 1439791

Please send the approval to Lions Gate Forest Products Ltd. Attention: Josh Hiebert

For further information, please contact the undersigned.

Regards,

Joshua Hiebert, RFT, ATC
Planning Manager
LIONS GATE FOREST PRODUCTS LTD.
3341 Mine Road – PO Box 1700
Port McNeill, B.C., Canada V0N 2R0
Telephone: (250) 956-3123
Fax: (250) 956-4888
Email: jhiebert@lemare.ca

Verbrugge, Cheryl FLNR:EX

From: Josh Hiebert <jhiebert@lemare.ca>
Sent: Wednesday, August 5, 2015 4:06 PM
To: Schofield, Cyndi FLNR:EX
Cc: FTA DIC P FLNR:EX
Subject: RE: Missing Application letter for T0629 CP AD
Attachments: T0629_CP AD_13July2015.pdf; Notes from LGFP Info Sharing Mtg - 14 May 14.pdf

I have attached the cover letter for T0629 CP 'AC' Application that I have made on behalf of Lions Gate Forest Products Ltd. All data is entered in ECAS (ID:72255) and the ESF #1439791 was submitted also.
LGFP has notified the Quatsino and had a full information sharing session with Ralph Wallas, his team and Kathy DesRochers on May 14, 2014 regarding our plans for this area. During our information sharing it was determined that no Archaeological assessment would be required for the block LEC6 and we would follow 'Standard Operating Procedures', and the Quatsino had no further concerns with our plans. During the engineering and field work there were no heritage features or archaeological important features identified within our proposed cut blocks or along our roads. LEC4

Please let me know if you have any questions and I look forward to hearing from you soon.

Joshua Hiebert, RFT, ATC
Planning Manager
LEMARE

3341 Mine Road – PO Box 609
Port McNeill, B.C., Canada V0N 2R0
Telephone: (250) 956-3123
Cell: (250) 902-8991
Fax: (250) 956-4888
Email: jhiebert@lemare.ca

Please consider the environment before printing this e-mail or its attachment(s)

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From: Schofield, Cyndi FLNR:EX [mailto:Cyndi.Schofield@gov.bc.ca]
Sent: August-05-15 9:18 AM
To: Josh Hiebert <jhiebert@lemare.ca>
Subject: FW: Missing Application letter for T0629 CP AD

Sorry I meant CP AD.

From: Schofield, Cyndi FLNR:EX
Sent: Wednesday, August 5, 2015 9:16 AM
To: Josh Hiebert
Subject: Missing Application letter for T0629 CP AE

Hi Josh:
Just a reminder that the application letter and other information for T0629 CP AE is required to consider this a completed application.
We have the ESF Submission and ECAS data.

Cyndi Schofield
GIS Technician
Ministry of FLNRO
PO Box 7000
Port McNeill, BC
Phone: 250 956-5054
Email: Cyndi.Schofield@gov.bc.ca

CUTTING AUTHORITY DETAIL

Weighted Haul Distance: 51.3

Weighted Crew Transportation Distance: 52.0

Point of Appraisal: ALBE - Alberni

Cutblock #	Harvest Method	Volume (m3)	Point of Origin		Appraisal Log Dump	Other Log Dump	Truck Haul Distance (km)	Crew Transportation		Accessible / Isolated	Road Management	Major Centre	
			1	2				Distance (km)	Marshall Point			Major Centre	Distance (km)
LEC13	CY	6626	Cleagh Creek		MAHA		52.0	52.0	Mahatta	A	Yes	Campbell River	176
LEC14	CY	7084	Cleagh Creek		MAHA		46.7	52.0	Mahatta	A	Yes	Campbell River	175
LEC15A	CY	3867	Cleagh Creek		MAHA		54.0	52.0	Mahatta	A	Yes	Campbell River	177
LEC1A	GS	2288	Cleagh Creek		MAHA		52.0	52.0	Mahatta	A	Yes	Campbell River	177
LEC1B	CY	5489	Cleagh Creek		MAHA		54.0	52.0	Mahatta	A	Yes	Campbell River	177

OPERATING COST INFORMATION

Development Cost - Bridges

Type	Road Name	Stn #		Bridge Type	Crib Height (m)	Span Length (m)	Crown %	Amortized %	Appraisal Year	Bridge Built?
		Start	End							
R	Branch 43	347	353	L - Log	1	6	100	100	2014	☐
R	Branch 43	458	462	L - Log	1	4	100	100	2014	☐
R	Branch 43	528	532	L - Log	1	4	100	100	2014	☐
R	Branch 43	777	783	L - Log	1	6	100	100	2014	☐
R	Branch 43	816	824	L - Log	1	8	100	100	2014	☐
R	Branch 43	966	975	L - Log	1	9	100	100	2014	☐
N	LEC14-1A	102	107	L - Log	1	5	100	100	2014	☐

OPERATING COST INFORMATION

Development Cost - Tabular Roads

Identity				Subgrade						
	Station #									
Road Name	Start	End	Section Length (km)	Bank Height Category	RMC	Appraisal Year	Crown %	Amortized %	Section Built?	
15a	0	190	0.190	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2014	100	100	☐	
LEC Main	0	230	0.230	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2014	100	100	☑	
LEC Main	230	460	0.230	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2014	100	100	☑	
LEC13	0	500	0.500	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2014	100	100	☑	
LEC14-1 AP	0	8	0.008	OMRB - Other Material - Rock Ballast	H - Hard	2014	100	100	☐	
LEC14-1 AP	8	51	0.043	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2014	100	100	☐	
LEC14-1 AP	51	55	0.004	OMRB - Other Material - Rock Ballast	H - Hard	2014	100	100	☐	
LEC14-1 AP	55	66	0.011	OMRB - Other Material - Rock Ballast	H - Hard	2014	100	100	☐	
LEC14-1 AP	66	100	0.034	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2014	100	100	☐	
LEC14-1 AP	100	125	0.025	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2014	100	100	☐	
LEC14-1 AP	125	127	0.002	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	H - Hard	2014	100	100	☐	
LEC14-1 AP	127	139	0.012	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	H - Hard	2014	100	100	☐	
LEC14-1 AP	139	149	0.010	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2014	100	100	☐	
LEC14-1 AP	149	158	0.009	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	H - Hard	2014	100	100	☐	
LEC14-1 AP	158	175	0.017	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2014	100	100	☐	
LEC14-1 AP	175	176	0.001	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2014	100	100	☐	
LEC14-1 AP	176	206	0.030	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2014	100	100	☐	
LEC14-1 AP	206	220	0.014	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2014	100	100	☐	
LEC14-1 AP	220	226	0.006	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2014	100	100	☐	
LEC14-1 AP	226	230	0.004	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2014	100	100	☐	
LEC14-1 AP	230	247	0.017	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2014	100	100	☐	
LEC14-1 AP	247	249	0.002	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	H - Hard	2014	100	100	☐	
LEC14-1 AP	249	256	0.007	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2014	100	100	☐	
LEC14-1 AP	256	270	0.014	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	H - Hard	2014	100	100	☐	
LEC14-1 AP	270	294	0.024	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2014	100	100	☐	
LEC14-1 AP	294	310	0.016	OMRB - Other Material - Rock Ballast	H - Hard	2014	100	100	☐	
LEC14-1 AP	310	326	0.016	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2014	100	100	☐	
LEC14-1 AP	326	338	0.012	OMRB - Other Material - Rock Ballast	H - Hard	2014	100	100	☐	
LEC14-1 AP	338	374	0.036	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2014	100	100	☐	

LEC14-1 AP	374	398	0.024	OMRB - Other Material - Rock Ballast	H - Hard	2014	100	100	☐	
LEC14-1 AP	398	415	0.017	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2014	100	100	☐	
LEC14-1 AP	415	416	0.001	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2014	100	100	☐	
LEC14-1 AP	416	439	0.023	OMRB - Other Material - Rock Ballast	H - Hard	2014	100	100	☐	
LEC14-1 AP	439	450	0.011	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2014	100	100	☐	
LEC14-1 AP	450	471	0.021	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2014	100	100	☐	
LEC14-1 AP	471	478	0.007	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2014	100	100	☐	
LEC14-1 AP	478	488	0.010	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2014	100	100	☐	
LEC14-1 AP	488	497	0.009	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2014	100	100	☐	
LEC14-1 AP	497	525	0.028	OMRB - Other Material - Rock Ballast	H - Hard	2014	100	100	☐	
LEC14-1A	0	27	0.027	OMRB - Other Material - Rock Ballast	H - Hard	2014	100	100	☐	
LEC14-1A	27	40	0.013	OMRB - Other Material - Rock Ballast	H - Hard	2014	100	100	☐	
LEC14-1A	40	67	0.027	OMRB - Other Material - Rock Ballast	H - Hard	2014	100	100	☐	
LEC14-1A	67	88	0.021	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2014	100	100	☐	
LEC14-1A	88	98	0.010	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2014	100	100	☐	
LEC14-1A	98	104	0.006	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2014	100	100	☐	
LEC14-1A	104	111	0.007	OMRB - Other Material - Rock Ballast	H - Hard	2014	100	100	☐	
LEC14-1A	111	120	0.009	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2014	100	100	☐	
LEC14-1A	120	140	0.020	OMRB - Other Material - Rock Ballast	H - Hard	2014	100	100	☐	
LEC14-1A	140	158	0.018	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2014	100	100	☐	
LEC14-1A	158	170	0.012	OMRB - Other Material - Rock Ballast	H - Hard	2014	100	100	☐	
LEC14-1A	170	183	0.013	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2014	100	100	☐	
LEC14-2 AP	0	10	0.010	OMRB - Other Material - Rock Ballast	H - Hard	2014	100	100	☐	
LEC14-2 AP	10	36	0.026	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2014	100	100	☐	
LEC14-2 AP	36	40	0.004	OMRB - Other Material - Rock Ballast	H - Hard	2014	100	100	☐	
LEC14-2 AP	40	68	0.028	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2014	100	100	☐	
LEC14-2 AP	68	78	0.010	OMRB - Other Material - Rock Ballast	H - Hard	2014	100	100	☐	
LEC14-2 AP	78	90	0.012	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2014	100	100	☐	
LEC14-2 AP	90	109	0.019	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2014	100	100	☐	
LEC14-2 AP	109	117	0.008	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	H - Hard	2014	100	100	☐	
LEC14-2 AP	117	147	0.030	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2014	100	100	☐	
LEC14-2 AP	147	160	0.013	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	H - Hard	2014	100	100	☐	
LEC14-2 AP	160	213	0.053	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2014	100	100	☐	
LEC14-2 AP	213	220	0.007	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2014	100	100	☐	
LEC14-2 AP	220	227	0.007	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2014	100	100	☐	
LEC14-2 AP	227	235	0.008	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2014	100	100	☐	
LEC14-2 AP	235	252	0.017	OMRB - Other Material - Rock Ballast	H - Hard	2014	100	100	☐	
LEC14-2 AP	252	260	0.008	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2014	100	100	☐	
LEC14-2 AP	260	273	0.013	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2014	100	100	☐	
LEC14-2 AP	273	337	0.064	OMRB - Other Material - Rock Ballast	H - Hard	2014	100	100	☐	
LEC14-2 AP	337	374	0.037	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2014	100	100	☐	

LEC14-2 AP	374	424	0.050	OMRB - Other Material - Rock Ballast	H - Hard	2014	100	100	☐	
LEC14-2A AP	0	10	0.010	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2014	100	100	☐	
LEC14-2A AP	10	34	0.024	OMRB - Other Material - Rock Ballast	H - Hard	2014	100	100	☐	
LEC14-2B AP	0	10	0.010	OMRB - Other Material - Rock Ballast	H - Hard	2014	100	100	☐	
LEC14-2B AP	10	12	0.002	OMRB - Other Material - Rock Ballast	H - Hard	2014	100	100	☐	
LEC14-2B AP	12	20	0.008	OMRB - Other Material - Rock Ballast	H - Hard	2014	100	100	☐	
LEC14-2B AP	20	27	0.007	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2014	100	100	☐	
LEC14-2B AP	27	28	0.001	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2014	100	100	☐	
LEC14-2B AP	28	40	0.012	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2014	100	100	☐	
LEC14-2B AP	40	55	0.015	OMRB - Other Material - Rock Ballast	H - Hard	2014	100	100	☐	
LEC14-2B AP	55	56	0.001	OMRB - Other Material - Rock Ballast	H - Hard	2014	100	100	☐	
LEC14-2B AP	56	60	0.004	OMRB - Other Material - Rock Ballast	H - Hard	2014	100	100	☐	
LEC14-2B AP	60	73	0.013	OMRB - Other Material - Rock Ballast	H - Hard	2014	100	100	☐	

Total for 2014 : 2.389 km

Tabular Road Total: 2.389 km

OPERATING COST INFORMATION

Development Cost - Road Reconstruction

Case	Road Name	Start	End	Section Length	Subgrade					Surfacing						Total Cost for Section	Appraisal Year	Crown %	Amortization %	Section Built
					Rem. Road Width	Construction Category	Uphill Side Slope %	Material Type	Cost per km	Required	Depth	Haul Distance	Pit Location	Material Type	Cost per km					
RS	BRANCH 40	0	6569	6.569		3	30	S		☑	0.2			S	11558	75925	2014	100	100	☑
RS	Branch 43	0	2482	2.482		4	35	H		☑	0.2			S	11558	28687	2014	100	100	☑
RS	East Creek	0	10000	10.000		3	0	S		☑	0.2	3.00		S	16586	165860	2014	100	100	☑
RS	SPUR 10-1	0	643	0.643		3	35	S		☑	0.2			S	11558	7432	2014	100	100	☑
RS	SPUR 12-1	0	584	0.584		5	55	H		☑	0.2			H	15181	8866	2014	100	100	☐

Total for 2014: 20.278

OPERATING COST INFORMATION

Development Cost - End Haul

Type	Case	Road Name	Start	End	Section Length (km)	Subgrade							Surfacing					Partial %	Crown %	Amortized %	Total Cost for Section	Appraisal Year	Section Built
						Construction Category	Uphill Side Slope %	Material Type	Spoil Location	Haul Distance (km)	Total End Haul Volume (m3)	Total Cost End Haul ($/km)	Surfacing	Material Type	Pit Location	Haul Distance (km)	Total Cost / km ($/km)						
N	EH	LEC14-2 AP	100	117	0.017	5	50	H	Br.10-1	0.29	107	102882	☐					100	100	100	1749	2014	☐
N	EH	LEC1B	0	200	0.200	5	70	S	0	0.35	4500	306765	☐					100	100	100	61353	2014	☑
		Total for 2014:			0.217																63102		
		Total:			0.217																63102		

SELLING PRICE INFORMATION

Grade %

Species	Peeler		Lumber				Sawlog			Shingle			Util.		Chip	Total Net Cruise Volume by Species	Grade Source Level
	B	C	D	E	F	G	H	I	J	K	L	M	U	X	Y		
Balsam																1556	
Cedar																13762	
Cypress																1386	
Hemlock																8650	

Selling Price Zone:

TOTAL NET CRUISE VOLUME: 25354

Second growth: ☐

Single Tree Selection Cruise Volume: ☐

TSA: 33 - Kingcome TSA

TSB: 33A - Kingcome TSA Brooks Block

Applicable Volume (m^3)	Appraisal Year	Area Unlogged (ha)
	2014	32.4

ATTACHMENTS

If submitting attachments as a single zip file, submit below.
Please check off below what attachments are contained in the zip file.

Attach File: T0629_ECAS_CP AA_05September2014.zip

- [x] Appraisal Map
- [ ] Approved Request for a Approval of a Road Use Charge

Specified Operations:

- [ ] A-frame Logging
- [ ] Blowdown Timber
- [ ] Single Tree Selection
- [ ] Group Selection
- [ ] Skyline Logging
- [ ] Lake Transportation
- [ ] Skidder Swing
- [ ] Towing to Tie-up Grounds
- [ ] Camp Move
- [ ] Destumping
- [x] Tree Crown Modification
- [x] Culvert Worksheet

Detailed Engineering

- [x] Bridge Repairs
- [ ] Construction Estimate Form #1
- [ ] Construction Estimate Form #2
- [ ] Construction Estimate Form #3
- [ ] Construction Estimate Form #4
- [ ] Construction Estimate Form #5
- [ ] Greater than 5 Construction Estimate Forms

Cruise

- [x] Cruise Compilation (.txt or .dat in ascii format for original & reduction data)
- [ ] Cruise Analysis Form (District Staff Only)
- [ ] Tenure Info. (District Staff Only)
- [ ] BC Timber Sales (FS 574) (BSTC Staff Only)
- [ ] Extended Road Amortization
- [x] Miscellaneous

If attaching individually, submit below.

	Electronic (Attached)	Paper Copy To Follow	NA	Attachment
Appraisal Map	❍	❍	●	
Approved Request for a Approval of a Road Use Charge	❍	❍	●	
Specified Operation				
A-frame Logging	❍	❍	●	
Blowdown Timber	❍	❍	●	
Single-Tree Selection	❍	❍	●	
Group Selection	❍	❍	●	
Skyline Logging	❍	❍	●	
Lake Transportation	❍	❍	●	
Skidder Swing	❍	❍	●	
Towing To Tie-up Grounds	❍	❍	●	
Camp Move	❍	❍	●	
Destumping	❍	❍	●	
Tree Crown Modification	❍	❍	●	
Culvert Worksheet	❍	❍	●	
Detailed Engineering				
Bridge Repairs	❍	❍	●	
Construction Estimate Form #1	❍	❍	●	
Construction Estimate Form #2	❍	❍	●	
Construction Estimate Form #3	❍	❍	●	
Construction Estimate Form #4	❍	❍	●	
Construction Estimate Form #5	❍	❍	●	
If there are more than 5 CEF's please attach the remainder as a ZIP file	❍	❍	●	
Engineering info to Support Detailed Engineering	❍	❍	●	
Extended Road Amortization	❍	❍	●	
Cruise				
Cruise Compilation (.txt or .dat in ascii format for original & reduction data)	❍	❍	●	
Cruise Analysis Form (District Staff Only)	❍	❍	●	
Tenure Info. (District Staff Only)	❍	❍	●	
BC Timber Sales (FS 574) (BCTS Staff Only)	❍	❍	●	
Miscellaneous				
Cruise Data	●	❍	❍	T0629_CP AA_Cruise Data.zip
Road Reactivation Info	●	❍	❍	T0629_Reconstruction Info_05September2014.zip
	❍	❍	●	

Filter

FILE_TYPE	(Multiple Items)
DISTRICT	DNI
MU_TYPE	(Multiple Items)
MU_ID	33
TSB_ID	33A
LICENCE	(All)
CRUISE_BASED_IND	(All)

Ministry of Forests, Lands, and Natural Resource Operations
Coast Grade Distribution Report
Volumes and Values
Excludes Waste
Appraisal Quarter 1, 2016
2 Year Billing Period

Volumes

Species	B	C	D	E	F	G	H	I	J	K	L	M	U	X	Y	Grand Total
BA	-	-	555.1	-	1,303.7	-	10,764.8	2,779.1	9,844.6	-	-	-	1,884.2	1,640.9	1,795.9	30,568.4
CE	-	-	1,539.5	-	388.5	-	12,870.7	6,082.0	11,882.0	2,797.6	10,750.7	3,892.1	6,349.1	422.6	710.2	57,685.0
CY	-	-	45.8	-	29.2	-	812.5	160.7	1,529.3	-	-	-	328.0	128.3	350.7	3,384.5
FI	-	-	-	-	-	-	1.8	1.2	1.2	-	-	-	-	17.8	4.1	26.1
HE	-	-	4,198.0	-	9,709.8	-	42,664.5	16,016.2	47,749.3	-	-	-	13,506.1	6,778.6	7,465.3	148,087.8
LO	-	-	-	-	-	-	-	-	9.5	-	-	-	7.9	-	2.7	20.0
SP	-	-	557.5	496.5	632.4	1,866.6	7,928.5	4,150.8	1,261.8	-	-	-	1,888.5	1,113.8	1,972.1	21,868.6
WH	-	-	-	-	-	-	4.4	-	11.1	-	-	-	5.5	-	0.9	22.0
	-	-	6,895.9	496.5	12,063.6	1,866.6	75,047.3	29,190.0	72,288.8	2,797.6	10,750.7	3,892.1	23,969.4	10,102.2	12,301.8	261,662.5

Percents

Species	B	C	D	E	F	G	H	I	J	K	L	M	U	X	Y	Grand Total
BA	-	-	2	-	4	-	36	9	32	-	-	-	6	5	6	100
CE	-	-	3	-	1	-	22	10	20	5	19	7	11	1	1	100
CY	-	-	1	-	1	-	24	5	45	-	-	-	10	4	10	100
FI	-	-	-	-	-	-	7	5	4	-	-	-	-	68	16	100
HE	-	-	3	-	6	-	29	11	32	-	-	-	9	5	5	100
LO	-	-	-	-	-	-	-	-	48	-	-	-	39	-	13	100
SP	-	-	3	2	3	8	36	19	6	-	-	-	9	5	9	100
WH	-	-	-	-	-	-	20	-	51	-	-	-	25	-	4	100

BRITISH COLUMBIA
The Best Place on Earth

Distribution: [Distribution List]
Document name: G:\!Workgrp\AdminServ\Briefing Note\REGION\BN 2010\124743 - WFP 8 TL Transfer Ltr.docx
Contact: Steven Rogers, Tenures Forester, Coast Forest Region, 250.751.7129
Date typed: 2010/07/07 Date last saved: 2010-07-07 8:45 am

File: 19580-25/T0293, T0306, T0326, T0596, T0611, T0615, T0626, and T0629

JUL 7 2010

Kerry McGourlick
Chief Forester
Western Forest Products Inc.
118 – 1334 Island Highway
Campbell River, British Columbia
V9W 8C9

Eric Dutcyvich
Lions Gate Forest Products Ltd.
Box 1700
Port McNeill, British Columbia
V0N 2R0

Dear Kerry McGourlick and Eric Dutcyvich:

This letter is in response to your Notice of Intended Disposition dated May 19, 2010, regarding the proposed disposition of Timber Licences T0293, T0306, T0326, T0596, T0611, T0615, T0626, and T0629, including the associated Road Permit R06231, from Western Forest Products Inc. to Lions Gate Forest Products Ltd.

The proposed disposition details have been reviewed and I am satisfied that the requirements set out in Section 54.1 of the *Forest Act* (the Act) have been met, therefore, in accordance with Section 54(2)(e) of the Act, I am providing you with notice that you may proceed with the completion of the disposition of the agreements to Lions Gate Forest Products Ltd., subject to the following:

- The disposition is completed by September 30, 2010. If the disposition of these agreements is not completed prior to that date, then this notice will become null and void.

- All monies required to be paid to government under Section 54(2)(b) of the Act have been paid at the end of the day of the completion of the transfer.

Pursuant to Section 54.2 of the Act, you are required to advise me of the completion of the disposition of the agreements within 7 days of completion. However, I encourage you to provide this notification as soon as possible in order for the timely updating of our various information systems and files.

Ministry of Forests and Range Coast Forest Region

Location:
2100 Labieux Road
Nanaimo, BC
V9T 6E97
CANADA

Mailing Address:
2100 Labieux Road
Nanaimo, BC V9T 6E9

Tel: (250) 751-7001
Fax: (250) 751-7190

Kerry McGourlick

I consider this to be suitable juncture to remind both parties to this transaction that timber licences are a temporary tenure and are not intended to continue in perpetuity. I have attached a list of factors that may be considered with respect to Timber Licence Extensions under Section 31 of the Act. Also attached is the letter of December 21, 2007, that originally conveyed the list of factors.

If you have any questions, please contact Steven Rogers, Tenures Forester, Coast Forest Region at (250) 751-7129 or at steven.rogers@gov.bc.ca .

Yours truly,

Sharon Hadway
A/Regional Manager
Coast Forest Region

Attachment: December 21, 2007, letter regarding extension of Timber Licences

pc: Jim Langridge, Director, Resource Tenures Branch
Andrew Ashford, District Manager, North Island – Central Coast Forest District
Steven Rogers, Tenures Forester, Coast Forest Region

BRITISH COLUMBIA
The Best Place on Earth

File: 19580-00/Policy

DEC 21 2007

To All Holders of Unregulated Timber Licences

Dear Licensee:

The purpose of this letter is to update holders of unregulated timber licences (TLs) within the Coast Forest Region regarding requests for the extension to the term of unregulated TLs.

In a letter to you dated July 16, 2004, the previous Regional Executive Director of the Coast Forest Region, stated that she would not consider extending the term of a TL more than once. Contrary to the previous direction, I am giving notice that I am prepared to consider requests for an extension to the term of a TL, whether or not it has been extended before.

TLs are a temporary tenure and are not intended to continue in perpetuity. I am, however, willing to consider extending a TL. Section 31 of the *Forest Act* authorizes me to extend the term of a TL, provided the tenure holder submits to me their extension request prior to the expiry of the TL. Attached is a list of factors that I may consider during my review of an extension request. I expect that each extension request will be accompanied by a detailed rationale as to why the tenure holder believes an extension is reasonable. It is suggested that these rationales address as many of these listed factors as possible.

Each request for a TL extension will be determined on its own individual merits and an extension may be granted provided that the request demonstrates the extension is in the best interest of the Crown.

Upon receipt of your extension request, consultation with First Nations will be initiated, and district staff will participate in the review of your application.

I would also appreciate if you would inform me of any unregulated TLs that have not yet expired that you will not be requesting to have extended.

Ministry of Forests and Range
Coast Forest Region
Location:
2100 Labieux Road
Nanaimo BC
Mailing Address:
2100 Labieux Road
Nanaimo BC V9T 6E9
Tel: (250) 751-7001
Fax: (250) 751-7190

To All Holders of Unregulated Timber Licences

If you have any questions related to TLs, please contact Steven Rogers, Tenures Forester, Coast Forest Region, at (250) 751-7129 or at steven.rogers@gov.bc.ca .

Yours truly,

Jim Gowriluk, RPF
Regional Executive Director
Coast Forest Region

Attachment: Factors that may be considered with respect to Timber Licence Extensions.

pc: Jim Langridge, Director, Resource Tenures and Engineering Branch
All District Managers, Coast Forest Region

WESTERN FOREST PRODUCTS INC.

LIONS GATE TIMBER INC.

DELIVERED BY FAX AND COURIER
(250) 751-7190

August 9, 2010

Ministry of Forests and Range
Coast Forest Region
2100 Labieux Road
Nanaimo BC V9T 6E9

Cliff #186494

Attention: Sharon Hadway, Acting Regional Manager

Dear Mesdame:

Re: Notice of Completion

We refer to your letter dated July 7, 2010 (the "Notice to Proceed") addressed to Western Forest Products Inc. ("WFP") and Lions Gate Forest Products Ltd. ("Lions Gate"). The Notice to Proceed provided the Minister's notice to WFP and Lions Gate under section 54(2)(e) of the *Forest Act* (British Columbia) to proceed with the disposition of Timber Licences T0293, T0306, T0326, T0596, T0611, T0615, T0626, and T0629 and road permit R06231 associated with this agreement (collectively, the "Agreements") from WFP to Lions Gate, and as described in a Notice of Intended Disposition of Agreements submitted to the Minister of Forests and Range by Lions Gate and WFP pursuant to section 54 of the *Forest Act* (British Columbia) dated May 19, 2010 (the "Notice of Intended Disposition").

As required by section 54.2(1) of the *Forest Act* (British Columbia) and the Notice to Proceed, we hereby jointly confirm completion of the disposition of the Agreements effective August 9, 2010, as contemplated by the Notice to Proceed.

If you have any questions or require any further information, please do not hesitate to contact either of the undersigned at the contact identified in the Notice of Intended Disposition.

Yours very truly,

WESTERN FOREST PRODUCTS INC.

Per: _____
Authorized Signatory

LIONS GATE TIMBER LTD.

Per: _____
Authorized Signatory

/2316260

Western Forest Products Inc.

Cliff #124743

T-Various
May 31, 2010

Coast Forest Region
Ministry of Forests & Range
2100 Labieux Road
Nanaimo, B.C. V9T6E9

Attention: S.Hadway

Dear Sharon:

Re: Notice of Intended Disposition of a Timber Licence and Road Permit

Attached is a Notice of Intended Disposition for Timber Licences T0293, T0306, T0326, T0596, T0611, T0615, T0626, and T0629 from Western Forest Products Inc. to Lions Gate Forest Products Ltd. Also included is associated Road Permit R06231.The intended date of disposition is June 30, 2010.

A cheque for $900.00 is included for the transfer fees for the 8 Timber Licences and 1 Road Permit.

If you have any questions, please contact me at the number listed below.

Yours truly,
Western Forest Products Inc.

K.J.McGourlick R.P.F.
Chief Forester

Cc: Eric Dutcyvich, Lions Gate Forest Products Inc.
Dave Weir, WFP Inc.

Suite 118 1334 Island Highway, Campbell River, BC V9W 8C9
Telephone: (250) 286-3767 - Fax: (250) 286-3375

NOTICE OF INTENDED DISPOSTION
of a
TIMBER LICENCE
under
SECTION 54 OF THE *FOREST ACT*

To: Regional Executive Director
Coast Forest Region
Ministry of Forests & Range

Re: Timber Licences TO293, T0306, T0326, T0596, T0611, T0615, T0626, and T0629
Road Permit R06231
(The "Agreement")

We jointly hereby give notice of the intended disposition of the Agreement

From Western Forest Products Inc.
(Current Holder of the Agreement)

To Lions Gate Forest Products Ltd.
(Intended Recipient of the Agreement)

The following information pertaining to each of the current holder and the intended recipient of the agreement is provided:

1. **Current holder of the agreement:**

Individual or Corporation Name: Western Forest Products Inc.

Jurisdiction of Incorporation (if applicable): Canada

Incorporation Number (if applicable): 420424-7

Mailing Address: Western Forest Products Inc.
118- 1334 Island Highway
Campbell River, B.C.
V9W 8C9

Intended recipient of the agreement:

Individual or Corporation Name: Lions Gate Forest Products Ltd.

Jurisdiction of Incorporation: (if applicable) British Columbia

Incorporation Number: (if applicable): BC0794687

Mailing Address: Box 1700
Port McNeill, BC
V0N 2R0

2. The Intended Recipient of the Agreement and Current Holder of the Agreement have agreed to the following:

   (i) As the minor tenure is a timber licence outside of a TFL a current deposit is not held under the Agreement and so there is no amount to be returned to the Current holder of the Agreement or deposit required of the new holder.

3. Payment of a non-refundable transfer fee of $100.00 per agreement (including licences and road permits) is attached to this notice in the form of a check made payable to the Minster of Finance.

4. Contact particulars (name, address, telephone number, email address):

   Current Holder of the Agreement:
   Western Forest Products Inc.
   118 -1334 Island Highway
   Campbell River, B.C.
   V9W 8C9
   Attention: K.McGourlick
   (250) 286-4123

   Intended Recipient of the Agreement:
   Lions Gate Forest Products Ltd.
   Box 1700
   Port McNeill, BC
   V0N 2R0

   Attention: Mr. Eric Dutcyvich
   Tel. # 604-250-4193

5. The intended date of the disposition is June 30, 2010

We hereby seek a notice that the intended disposition may proceed to completion.

Dated for reference this 19 day of May, 2010.

Per: _____
Signature of the Holder of the Agreement, or
Where the holder is a corporation, the authorized signatory of the holder of the agreement and relationship of that person to the Current Holder of the Agreement.

Per: _____
Signature of the Intended Recipient of the Agreement, or
Where the holder is a corporation, the authorized signatory of the holder of the agreement and relationship of that person to the Intended Recipient of the Agreement.

Verbrugge, Cheryl FLNR:EX

From: Rogers, Steven L FOR:EX
Sent: Friday, January 21, 2011 1:22 PM
To: Short, Robert W FOR:EX
Subject: TRIM: Tenure Transfer from Western to Lions Gate completed
Attachments: 20100602161438.pdf; 20100816104436.pdf; 20100816104412.pdf

FYI

Steve Rogers, R.P.F., Tenures Forester
BC Forest Service
Coast Area - Nanaimo
Ministry of Natural Resouce Operations
Ph. 250.751.7129 Fax 250.751.7190
email: steven.rogers@gov.bc.ca

From: Rogers, Steven L FOR:EX
Sent: Monday, August 16, 2010 10:58 AM
To: Flegel, David A FOR:EX; Brady, Cam FOR:EX; Grant, Cyndy L FOR:EX; DesRochers, Kathy A FOR:EX
Subject: Tenure Transfer from Western to Lions Gate completed - Need to Notify FN's

On August 9, 2010, Western Forest Products Inc. completed the transfer of T0293, T0306, T0326, T0596, T0611, T0615, T0626, T0629, and associated R06231 to Lions Gate Forest Products Ltd. I have updated FTA to show that Lions Gate Forest Products Ltd. is the holder of these timber licences and the associated road permit.

Attached is the Notice of Intended Disposition, the Notice to Proceed, and the Notice of Completion. All three of these documents are to be placed on each of the files for the timber licences and the RP.

Could the district also please inform the FN's that the tenure transfer has completed.

Please let me know if you have any questions. Thank you.

Steve Rogers, R.P.F., Tenures Forester
Coast Forest Region - Nanaimo
Ministry of Forest & Range - Ops. Div.
Ph. 250.751.7129 Fax 250.751.7190
email: steven.rogers@gov.bc.ca

From: Rogers, Steven L FOR:EX
Sent: Wednesday, June 2, 2010 4:39 PM
To: Flegel, David A FOR:EX; Brady, Cam FOR:EX; Grant, Cyndy L FOR:EX; DesRochers, Kathy A FOR:EX
Subject: Notice of Transfer - Western transfering 8 timber licences - Need to Notify FN's of Pending Transfer and confirm RPs

Hi everyone,

Attached is a "Notice of Intended Disposition" in which Western proposes to transfer to Lions Gate Forest Products Ltd. eight timber licences and one associated Road Permit. All of these TL's are in DNICC according to FTA.

The *Forest Act* states that prior to the clients completing the transfer of a timber licence, they need to receive a "Notice to Proceed" from the Regional Executive Director. The Act also states that for timber licences, the RED must issue the "Notice to Proceed". This means that transfers are not an admin decision, therefore, we do not need to consult with FN's on the transfer, but we are to notify FN's of the transfer prior to issuing the "Notice to Proceed".

Would the district please notify FN's that have asserted traditional territory covering these timber licences of this pending transfers. Please find attached an example of a notification letter to FN's for a tenure transfer which was used by DCR for a previous timber licence transfer.

The parties are planning to complete the transfer by June 30th[t], so can the district notify FN's by June 15th?

Also, could the district please confirm whether or not there are any road permits that should be transferred with these timber licences? The clients requested R06231 be transferred – should it be? And are there any RPs that they missed that should be transferred with these timber licences.

Once FN's have been notified, and the RPs confirmed, then I will have the RED issue the "Notice to Proceed" to the parties.

Please let me know if you have any questions or concerns. Thank you.

Steve Rogers, R.P.F., Tenures Forester
Coast Forest Region - Nanaimo
Ministry of Forest & Range - Ops. Div.
Ph. 250.751.7129 Fax 250.751.7190
email: steven.rogers@gov.bc.ca

TIMBER LICENCE T0629

CUTTING PERMIT AC

Ministry of Forests, Lands and Natural Resource Operations

PURSUANT TO Timber Licence T0629(the "Licence"), this Cutting Permit is issued to:

LIONS GATE FOREST PRODUCTS LTD.
POST OFFICE BOX 1700
PORT MCNEILL, BRITISH COLUMBIA
V0N 2R0
(the "Licensee")

1.00 PERMIT AREA AND TERM

1.01 Subject to the Licence and the forestry legislation, the Licensee is authorized to cut and remove timber from the areas of land within the harvest area(s), **Cutblocks LEC4** and **LEC6,** as delineated and shown on the attached Exhibit A maps.

1.02 Subject to Paragraph 1.03, and the term of the Licence, the term of this Cutting Permit begins on **June 24, 2015** and expires **April 26, 2018**.

1.03 Provided the Licence does not prohibit extensions, the District Manager may extend the term of this Cutting Permit in accordance with section 58.1 of the *Forest Act*.

1.04 Notwithstanding paragraph 1.03, the term of this Cutting Permit will not exceed 4 years.

1.05 The Licensee must make application for an extension of this Cutting Permit to the District Manager at least 60 days before the expiry of the Cutting Permit and in a form acceptable to the District Manager.

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 TIMBER HARVESTING AND WASTE ASSESSMENT

3.01 The Licensee must not fell standing timber, or must not buck or remove felled or dead and down timber, as the case may be, if:

(a) the timber is specified as reserved timber in paragraph 3.02 of this Cutting Permit; or

(b) under an applicable operational plan or the forestry legislation, the Licensee must not fell, buck or remove the timber, for silviculture, biodiversity or other forest management reasons.

3.02 The following timber is specified as reserved timber:

See Schedule B.

3.03 Subject to Paragraph 3.01, all timber that meets or exceeds the merchantability specifications set out in the Waste Assessment Manual and that is not removed by the Licensee may be identified in an assessment described in Paragraph 3.04 of this Cutting Permit and the volume of that timber, whether standing or felled, that could have been removed under the Licence, but which is not removed may be dealt with as if it had been removed for the purposes of calculating stumpage.

3.04 For the purpose of conducting the assessment of the volume of timber that was not removed, but which could have been removed as described in paragraph 3.03 and for the purpose of determining the volume of timber that is waste for the purposes of paragraph 3.05:

(a) the Licensee must conduct an assessment in accordance with the current Waste Assessment Manual after the Licensee has declared that primary logging (felling timber and yarding or forwarding the timber to central landings or road sides, but does not include removing the timber) has been completed for the Cutting Permit; or

(b) the District Manager may conduct an assessment in accordance with the current Waste Assessment Manual after the expiry of the term of the Cutting Permit or Licence or the Licence and/or Cutting Permit otherwise being terminated, whichever occurs first.

3.05 The District Manager, in a notice given to the Licensee, may require the Licensee to pay in respect of the volume of timber determined under Paragraph 3.04, a monetary waste assessment for all timber, whether standing or felled, that could have been removed under the Licence, but is not removed, and that meets or exceeds the merchantability specifications as set out in the current Waste Assessment Manual.

4.00 TIMBER MARK

4.01 The timber mark(s) for this Cutting Permit is/are:

TATVAC

4.02 The Licensee shall erect signs at all exits from the harvest area, clearly showing the timber mark(s) referred to in paragraph 4.01.

5.00 SCALE BASED STUMPAGE

5.01 For the purpose of determining the amount of stumpage payable in respect of timber removed from the harvest area, the volume or quantity of timber removed will be determined using information provided in a scale of the timber.

5.02 The Licensee must ensure that:

(a) all timber removed from the harvest area 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.

5.03 Immediately upon receipt of a notice, statement or invoice issued on behalf of the Crown, the Licensee must pay stumpage under Part 7 of the *Forest Act* at rates determined, redetermined and varied under section 105 of that Act for all timber removed from the harvest area or not removed and identified under part 3.00 of this Cutting Permit.

6.00 LEGISLATIVE FRAMEWORK

6.01 This Cutting Permit is subject to:

(a) the *Forest Act;*

(b) the *Forest Practices Code of British Columbia Act;*

(c) the *Forest and Range Practices Act*; and

(d) the regulations and standards made under those Acts.

6.02 The Licensee must:

(a) comply with the forestry legislation; and

(b) ensure that its employees, agents and contractors comply with the forestry legislation when engaging in or carrying out activities or operations under or associated with this Cutting Permit.

6.03 Nothing in this Cutting Permit is to be construed as authorizing the Licensee to cut or remove timber or engage in or carry out any other forest practices until all applicable operational plans for both the harvest area and any corresponding roads have been prepared or approved by the District Manager.

6.04 Nothing in this Cutting Permit is to be construed as authorizing the Licensee to carry out any operations or engage in any activities otherwise than in accordance with the requirements of the forestry legislation.

7.00 ROADS

7.01 The Licensee must ensure that all roads constructed or modified by or on behalf of the Licensee on the harvest area are:

(a) identified on a forest development plan or a forest stewardship plan and authorized under a road permit; or

(b) authorized under paragraph 7.02.

7.02 Subject to the Licence and forestry legislation, the Licensee may construct or modify roads under the authority of this Cutting Permit on the harvest area if the roads are:

(a) identified on a logging plan;

(b) wholly contained within a cut block identified on a forest development plan; and

(c) not identified on a forest development plan or a forest stewardship plan as providing access to more than one cut block.

7.03 Subject to paragraph 7.04, a road referred to in paragraph 7.02 may be used for non-industrial purposes by any person without charge.

7.04 The Licensee may close or restrict use of a road referred to in paragraph 7.02, if:

(a) in the opinion of the District Manager, activities or operations under or associated with this Cutting Permit represent a danger to life or property;

(b) the District Manager consents to the closure or restriction; and

(c) the Licensee complies with any directions of the District Manager with respect to the closure or restriction, including directions regarding the location and marking of gates and the posting of warning notices.

8.00 MISCELLANEOUS

8.01 The Schedules and Exhibit "A" map(s) attached to this Cutting Permit are deemed to be part of this Cutting Permit.

8.02 This Cutting Permit is deemed to be part of the Licence.

8.03 The Licence will govern the interpretation of this Cutting Permit.

8.04 The Licensee must notify the District Manager in writing in a form acceptable to the District Manager, when all harvest related obligations are complete.

9.00 INTERPRETATION

9.01 In this Cutting Permit:

"forestry legislation" means the legislation outlined in Paragraph 6.01 of this Cutting Permit;

"harvest area" means the area or areas allocated for the activities conducted by the Licensee pursuant to the Licence and this Cutting Permit and which for greater detail are outlined on the attached Exhibit "A" map(s);

"remove" means the removal of timber from the harvest area and "removed" and "removing" have the corresponding meanings;

"waste" means timber, whether standing or felled, that could have been removed under the Cutting Permit but was not removed, and which meets or exceeds the specifications of timber merchantability as stated in the Waste Assessment Manual, and as determined in accordance with the Waste Assessment Manual; and

"Waste Assessment Manual" means the "Provincial Logging Residue and Waste Measurement Procedures Manual".

2015.06.24
16:10:19 -07'00'

Andrew Ashford, RPF, District Manager
North Island – Central Coast Forest District

SCHEDULE A

SPECIAL CONDITIONS AND REQUIREMENTS

1.00 ORDERLY CONDITIONS

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

2.00 HAZARD TREES

2.01 The Licensee may cut and remove hazard trees from within fifty (50) metres of the boundaries of the cutblocks' total merchantable area.

2.02 The Licensee may fell trees outside of the cutblocks' boundaries but within the area described in Paragraph 2.01 if the person conducting tree felling or rigging tail hold/anchor trees determines that the tree represents a safety hazard according to the Worker's Compensation Board standards.

2.03 Trees felled under Paragraph 2.01 and Paragraph 2.02 shall be bucked and utilized according to the specifications included in the Licence and/or Cutting Permit.

3.00 TREE CROWN MODIFICATION

3.01 The Licensee may cut, damage or modify the crowns of the trees located outside the boundaries of the total merchantable area of the cutblocks identified on the attached Exhibit "A" maps and the locations of those specified trees are indicated on the data appraisal map and appraisal map attached to the appraisal for this cutting permit. The purpose of the modification of the crowns of the aforementioned trees is to reduce the risk of damage by wind and hence windfallen timber at the cutblocks' boundaries and beyond.

4.00 OTHER RIGHTS

4.01 The Licensee's rights under this Permit are subject to any other rights of use and occupation over the Permit Area and the Clearing Area which the Crown has granted to third parties and the Licensee covenants not to obstruct or impede a third party in their authorized use or occupation of these areas.

4.02 Except where a mineral reserve established under section 22 (2) of the *Mineral Tenure Act* allows otherwise, the Licensee covenants and agrees not to obstruct or impede the use of tenures which have been, or which may be, issued to third parties under the *Mineral Tenure Act*.

4.03 In consideration of the foregoing, the Licensee agrees to indemnify and save harmless the Crown from and against all claims for loss or damage, whether caused by the Licensee's acts or omissions, including losses or damages arising out of the Licensee's interference or obstruction of a third party's authorized use, or occupation of the Permit Area or Clearing Area.

SCHEDULE B

RESERVED TIMBER

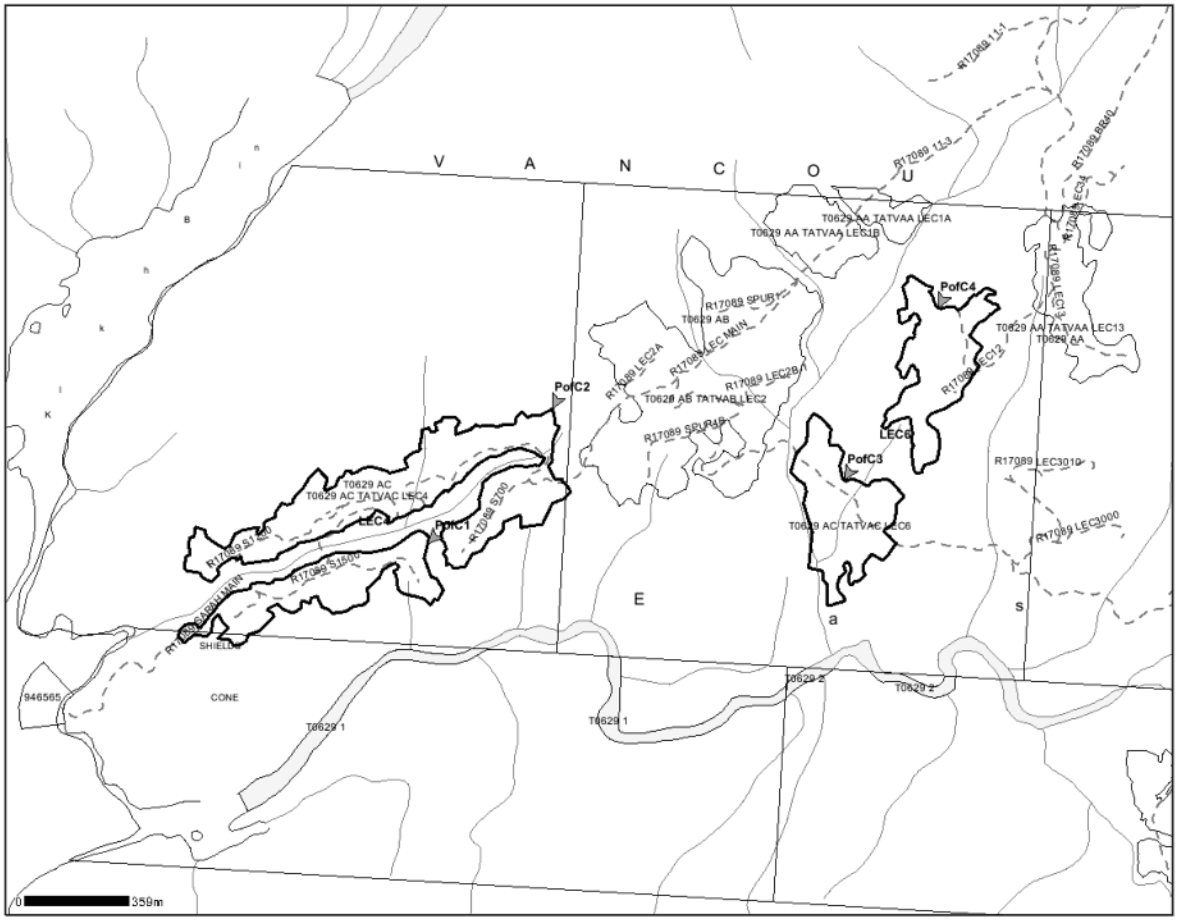
There is no specified reserved timber under this cutting permit.

BRITISH COLUMBIA

MINISTRY OF FORESTS, LANDS AND NATURAL RESOURCE OPERATIONS

EXHIBIT A

MAP OF : T0629 CP AC (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RUPERT DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : Outside Managed Units MGT UNIT NO :
ESF SUBMISSION ID : 1433181 BCGS MAPSHEET NO : 92L.022	SCALE : 1:20000 at A Size Area (Ha): 61.28	UTM : 9 NAD : NAD 83	DRAWN BY : FTA DATE : Jun 22, 2015



Legend

- Tenure Application
- Tenure Road Application
- Retired Tenure Road
- P of C
- P of T
- Tenure Feature
- Range
- TFL
- Provincial Forest
- Forest Service Road
- Highway
- Municipal Road
- Non Status Road
- Recreation Trails
- Road Permit
- SUP Road
- Right of Way
- Schedule B CP Road
- Mineral Tenure Points
- Cities
- Waterbodies
- River/Stream
- Coastline / Island

LEC4 (38.172 Ha)
PofC1 UTM9 591589, 5567248
PofC2 UTM9 591996, 5567726
LEC6 (23.107 Ha)
PofC3 UTM9 593002, 5567524
PofC4 UTM9 593300, 5568124

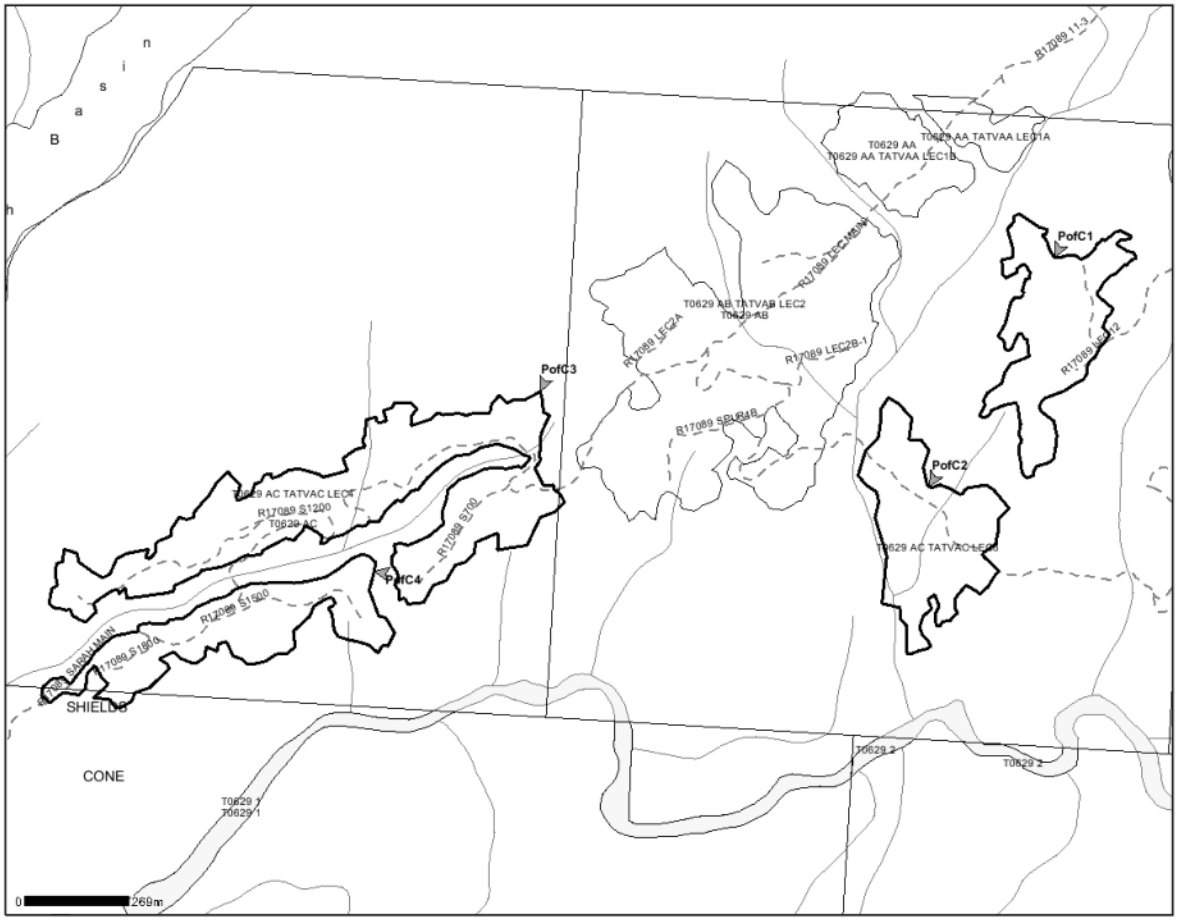
Inside Timber Licence T0629
Save and Except the prior rights of
R17089

REVIEWED
By Cyndi Schofield at 10:15 am, Jun 24, 2015

BRITISH COLUMBIA

EXHIBIT A

MAP OF : T0629 CP AC (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RUPERT DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : Outside Managed Units MGT UNIT NO :
ESF SUBMISSION ID : 1433181 BCGS MAPSHEET NO : 92L.022	SCALE : 1:15000 at A Size Area (Ha): 61.28	UTM : 9 NAD : NAD 83	DRAWN BY : FTA DATE : Jun 22, 2015



Legend

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- Tenure Road Application
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- Tenure Feature
- Range
- TFL
- Provincial Forest
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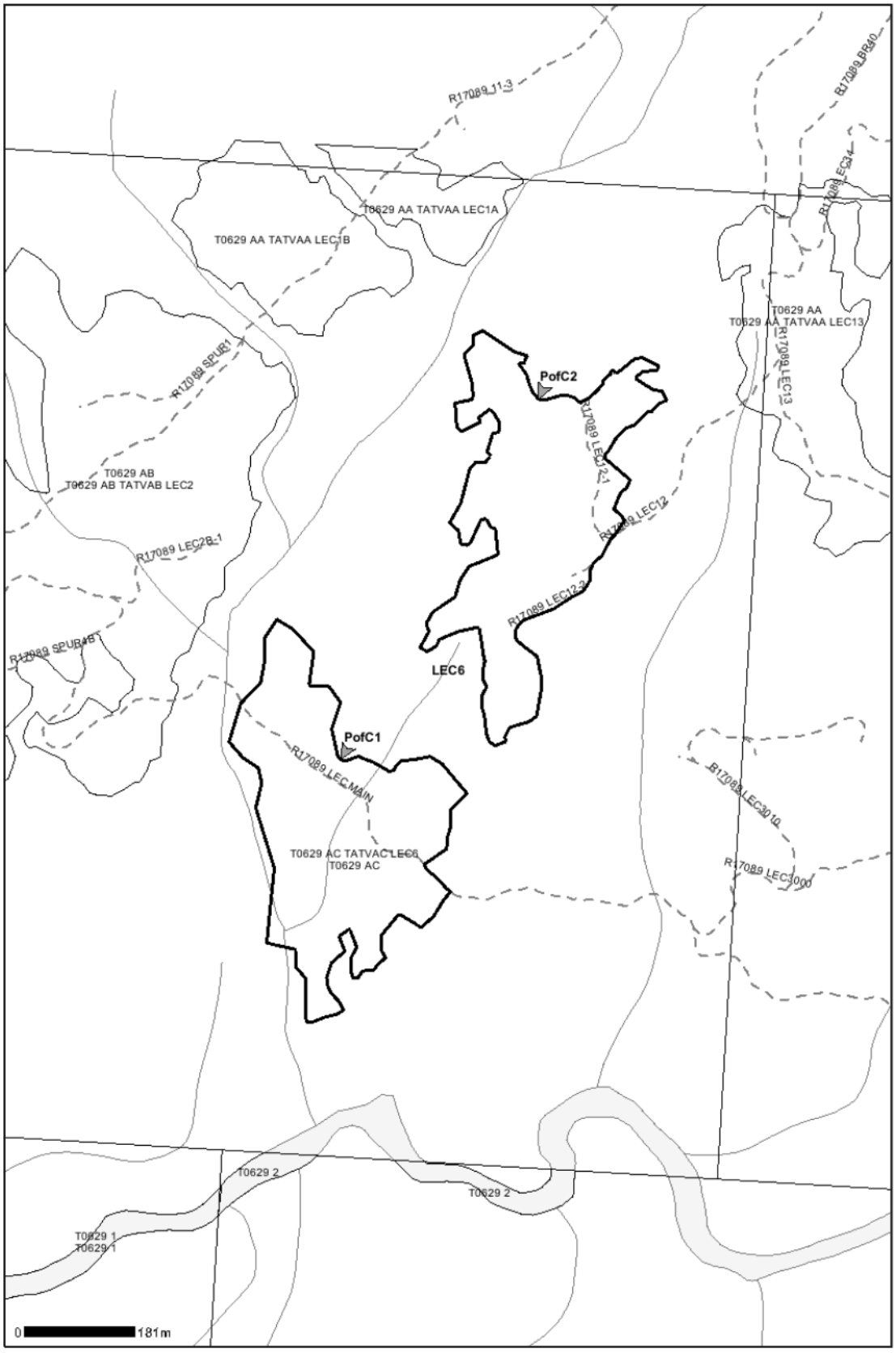
- Municipal Road
- Non Status Road
- Recreation Trails
- Road Permit
- SUP Road
- Right of Way
- Schedule B CP Road
- Mineral Tenure Points
- Cities
- Waterbodies
- River/Stream
- Coastline / Island

(61.28 Ha)
PofC1 UTM9 593300, 5568124
PofC2 UTM9 593002, 5567524
PofC3 UTM9 591996, 5567726
PofC4 UTM9 591589, 5567248

BRITISH COLUMBIA

EXHIBIT A

MAP OF : T0629 CP AC CB LEC6 (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RUPERT DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : Outside Managed Units MGT UNIT NO :
ESF SUBMISSION ID : 1433181 BCGS MAPSHEET NO : 92L.022	SCALE : 1:10000 at A Size Area (Ha): 23.107	UTM : 9 NAD : NAD 83	DRAWN BY : FTA DATE : Jun 22, 2015



Legend

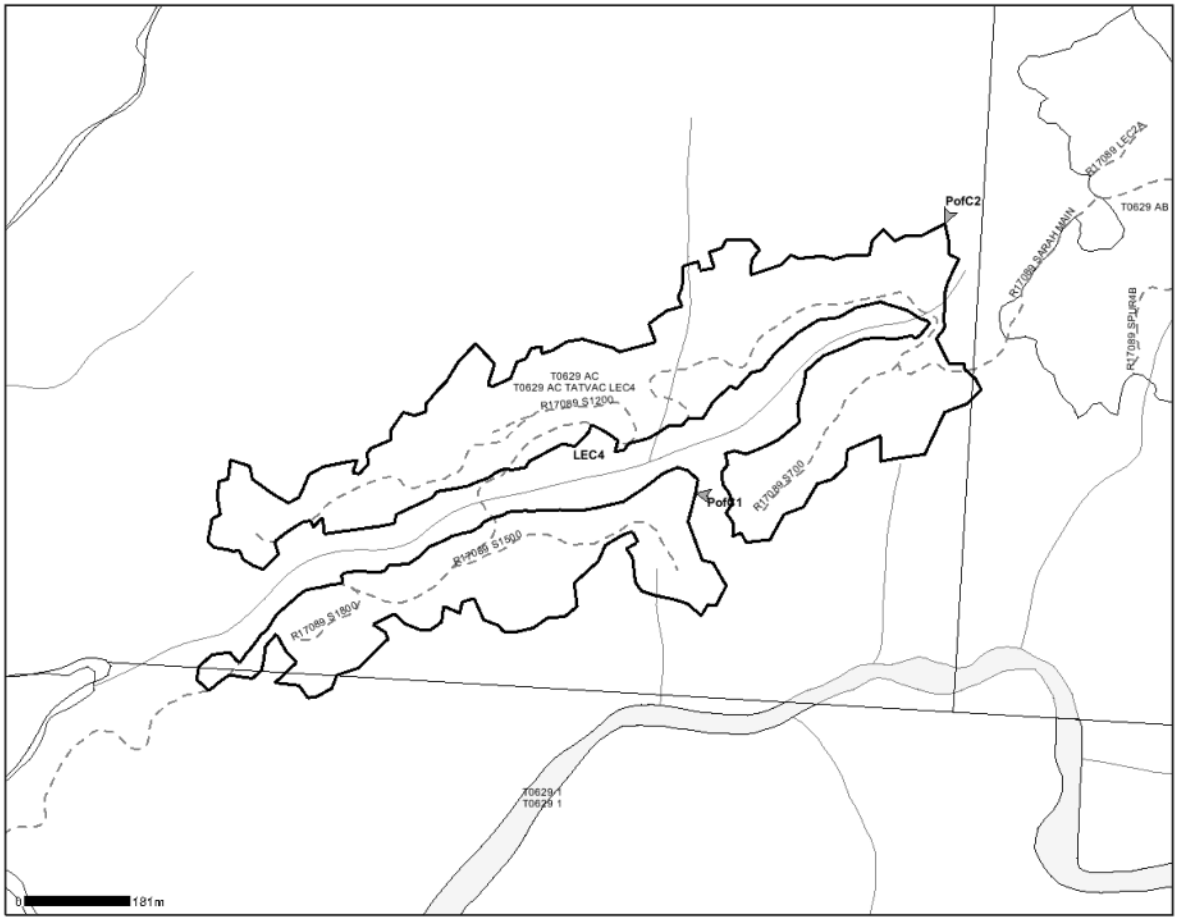
- Tenure Application
- Tenure Road Application
- Retired Tenure Road
- P of C
- P of T
- Tenure Feature
- Range
- TFL
- Provincial Forest
- Forest Service Road
- Highway
- Municipal Road
- Non Status Road
- Recreation Trails
- Road Permit
- SUP Road
- Right of Way
- Schedule B CP Road
- Mineral Tenure Points
- Cities
- Waterbodies
- River/Stream
- Coastline / Island

LEC6 (23.107 Ha)
PofC1 UTM9 593002, 5567524
PofC2 UTM9 593300, 5568124

BRITISH COLUMBIA

EXHIBIT A

MAP OF : T0629 CP AC CB LEC4 (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RUPERT DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : Outside Managed Units MGT UNIT NO :
ESF SUBMISSION ID : 1433181 BCGS MAPSHEET NO : 92L.022	SCALE : 1:10000 at A Size Area (Ha): 38.172	UTM : 9 NAD : NAD 83	DRAWN BY : FTA DATE : Jun 22, 2015



Legend

- Tenure Application
- Tenure Road Application
- Retired Tenure Road
- P of C
- P of T
- Tenure Feature
- Range
- TFL
- Provincial Forest
- Forest Service Road
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- Right of Way
- Schedule B CP Road
- Mineral Tenure Points
- Cities
- Waterbodies
- River/Stream
- Coastline / Island

LEC4 (38.172 Ha)
PofC1 UTM9 591589, 5567248
PofC2 UTM9 591996, 5567726

TIMBER LICENCE T0629

CUTTING PERMIT AB

Ministry of Forests, Lands and Natural Resource Operations

PURSUANT TO Timber Licence T0629(the "Licence"), this Cutting Permit is issued to:

LIONS GATE FOREST PRODUCTS LTD.
POST OFFICE BOX 1700
PORT MCNEILL, BRITISH COLUMBIA
V0N 2R0
(the "Licensee")

1.00 PERMIT AREA AND TERM

1.01 Subject to the Licence and the forestry legislation, the Licensee is authorized to cut and remove timber from the areas of land within the harvest area(s), **Cutblocks LEC2, LEC9 and LEC11,** as delineated and shown on the attached Exhibit A maps.

1.02 Subject to Paragraph 1.03, and the term of the Licence, the term of this Cutting Permit begins on **March 24, 2015** and expires **April 26, 2018**.

1.03 Provided the Licence does not prohibit extensions, the District Manager may extend the term of this Cutting Permit in accordance with section 58.1 of the *Forest Act*.

1.04 Notwithstanding paragraph 1.03, the term of this Cutting Permit will not exceed 4 years.

1.05 The Licensee must make application for an extension of this Cutting Permit to the District Manager at least 60 days before the expiry of the Cutting Permit and in a form acceptable to the District Manager.

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 TIMBER HARVESTING AND WASTE ASSESSMENT

3.01 The Licensee must not fell standing timber, or must not buck or remove felled or dead and down timber, as the case may be, if:

(a) the timber is specified as reserved timber in paragraph 3.02 of this Cutting Permit; or

(b) under an applicable operational plan or the forestry legislation, the Licensee must not fell, buck or remove the timber, for silviculture, biodiversity or other forest management reasons.

3.02 The following timber is specified as reserved timber:

See Schedule B.

3.03 Subject to Paragraph 3.01, all timber that meets or exceeds the merchantability specifications set out in the Waste Assessment Manual and that is not removed by the Licensee may be identified in an assessment described in Paragraph 3.04 of this Cutting Permit and the volume of that timber, whether standing or felled, that could have been removed under the Licence, but which is not removed may be dealt with as if it had been removed for the purposes of calculating stumpage.

3.04 For the purpose of conducting the assessment of the volume of timber that was not removed, but which could have been removed as described in paragraph 3.03 and for the purpose of determining the volume of timber that is waste for the purposes of paragraph 3.05:

(a) the Licensee must conduct an assessment in accordance with the current Waste Assessment Manual after the Licensee has declared that primary logging (felling timber and yarding or forwarding the timber to central landings or road sides, but does not include removing the timber) has been completed for the Cutting Permit; or

(b) the District Manager may conduct an assessment in accordance with the current Waste Assessment Manual after the expiry of the term of the Cutting Permit or Licence or the Licence and/or Cutting Permit otherwise being terminated, whichever occurs first.

3.05 The District Manager, in a notice given to the Licensee, may require the Licensee to pay in respect of the volume of timber determined under Paragraph 3.04, a monetary waste assessment for all timber, whether standing or felled, that could have been removed under the Licence, but is not removed, and that meets or exceeds the merchantability specifications as set out in the current Waste Assessment Manual.

4.00 TIMBER MARK

4.01 The timber mark(s) for this Cutting Permit is/are:

TATVAB

4.02 The Licensee shall erect signs at all exits from the harvest area, clearly showing the timber mark(s) referred to in paragraph 4.01.

5.00 SCALE BASED STUMPAGE

5.01 For the purpose of determining the amount of stumpage payable in respect of timber removed from the harvest area, the volume or quantity of timber removed will be determined using information provided in a scale of the timber.

5.02 The Licensee must ensure that:

(a) all timber removed from the harvest area 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.

5.03 Immediately upon receipt of a notice, statement or invoice issued on behalf of the Crown, the Licensee must pay stumpage under Part 7 of the *Forest Act* at rates determined, redetermined and varied under section 105 of that Act for all timber removed from the harvest area or not removed and identified under part 3.00 of this Cutting Permit.

6.00 LEGISLATIVE FRAMEWORK

6.01 This Cutting Permit is subject to:

(a) the *Forest Act;*

(b) the *Forest Practices Code of British Columbia Act;*

(c) the *Forest and Range Practices Act*; and

(d) the regulations and standards made under those Acts.

6.02 The Licensee must:

(a) comply with the forestry legislation; and

(b) ensure that its employees, agents and contractors comply with the forestry legislation when engaging in or carrying out activities or operations under or associated with this Cutting Permit.

6.03 Nothing in this Cutting Permit is to be construed as authorizing the Licensee to cut or remove timber or engage in or carry out any other forest practices until all applicable operational plans for both the harvest area and any corresponding roads have been prepared or approved by the District Manager.

6.04 Nothing in this Cutting Permit is to be construed as authorizing the Licensee to carry out any operations or engage in any activities otherwise than in accordance with the requirements of the forestry legislation.

7.00 ROADS

7.01 The Licensee must ensure that all roads constructed or modified by or on behalf of the Licensee on the harvest area are:

(a) identified on a forest development plan or a forest stewardship plan and authorized under a road permit; or

(b) authorized under paragraph 7.02.

7.02 Subject to the Licence and forestry legislation, the Licensee may construct or modify roads under the authority of this Cutting Permit on harvest area if the roads are:

(a) identified on a logging plan;

(b) wholly contained within a cut block identified on a forest development plan; and

(c) not identified on a forest development plan or a forest stewardship plan as providing access to more than one cut block.

7.03 Subject to paragraph 7.04, a road referred to in paragraph 7.02 may be used for non industrial purposes by any person without charge.

7.04 The Licensee may close or restrict use of a road referred to in paragraph 7.02, if:

(a) in the opinion of the District Manager, activities or operations under or associated with this Cutting Permit represent a danger to life or property;

(b) the District Manager consents to the closure or restriction; and

(c) the Licensee complies with any directions of the District Manager with respect to the closure or restriction, including directions regarding the location and marking of gates and the posting of warning notices.

8.00 MISCELLANEOUS

8.01 The Schedules and Exhibit "A" map(s) attached to this Cutting Permit are deemed to be part of this Cutting Permit.

8.02 This Cutting Permit is deemed to be part of the Licence.

8.03 The Licence will govern the interpretation of this Cutting Permit.

8.04 The Licensee must notify the District Manager in writing in a form acceptable to the District Manager, when all harvest related obligations are complete.

9.00 INTERPRETATION

9.01 In this Cutting Permit:

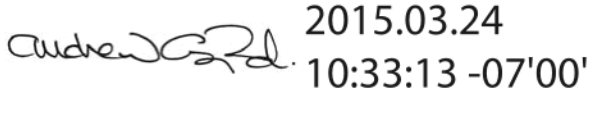
"forestry legislation" means the legislation outlined in Paragraph 6.01 of this Cutting Permit;

"harvest area" means the area or areas allocated for the activities conducted by the Licensee pursuant to the Licence and this Cutting Permit and which for greater detail are outlined on the attached Exhibit "A" map(s);

"remove" means the removal of timber from the harvest area and "removed" and "removing" have the corresponding meanings;

"waste" means timber, whether standing or felled, that could have been removed under the Cutting Permit but was not removed, and which meets or exceeds the specifications of timber merchantability as stated in the Waste Assessment Manual, and as determined in accordance with the Waste Assessment Manual; and

"Waste Assessment Manual" means the "Provincial Logging Residue and Waste Measurement Procedures Manual".



Andrew Ashford, RPF, District Manager
North Island – Central Coast Forest District

SCHEDULE A

SPECIAL CONDITIONS AND REQUIREMENTS

1.00 ORDERLY CONDITIONS

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

2.00 HAZARD TREES

2.01 The Licensee may cut and remove hazard trees from within fifty (50) metres of the boundaries of the cutblock's(s') total merchantable area.

2.02 The Licensee may fell trees outside of the cutblock's boundaries but within the area described in Paragraph 2.01 if the person conducting tree felling or rigging tail hold/anchor trees determines that the tree represents a safety hazard according to the Worker's Compensation Board standards.

2.03 Trees felled under Paragraph 2.01 and Paragraph 2.02 shall be bucked and utilized according to the specifications included in the Licence and/or Cutting Permit.

3.00 OTHER RIGHTS

3.01 The Licensee's rights under this Permit are subject to any other rights of use and occupation over the Permit Area and the Clearing Area which the Crown has granted to third parties and the Licensee covenants not to obstruct or impede a third party in their authorized use or occupation of these areas.

3.02 Except where a mineral reserve established under section 22 (2) of the *Mineral Tenure Act* allows otherwise, the Licensee covenants and agrees not to obstruct or impede the use of tenures which have been, or which may be, issued to third parties under the *Mineral Tenure Act*.

3.03 In consideration of the foregoing, the Licensee agrees to indemnify and save harmless the Crown from and against all claims for loss or damage, whether caused by the Licensee's acts or omissions, including losses or damages arising out of the Licensee's interference or obstruction of a third party's authorized use, or occupation of the Permit Area or Clearing Area.

SCHEDULE B

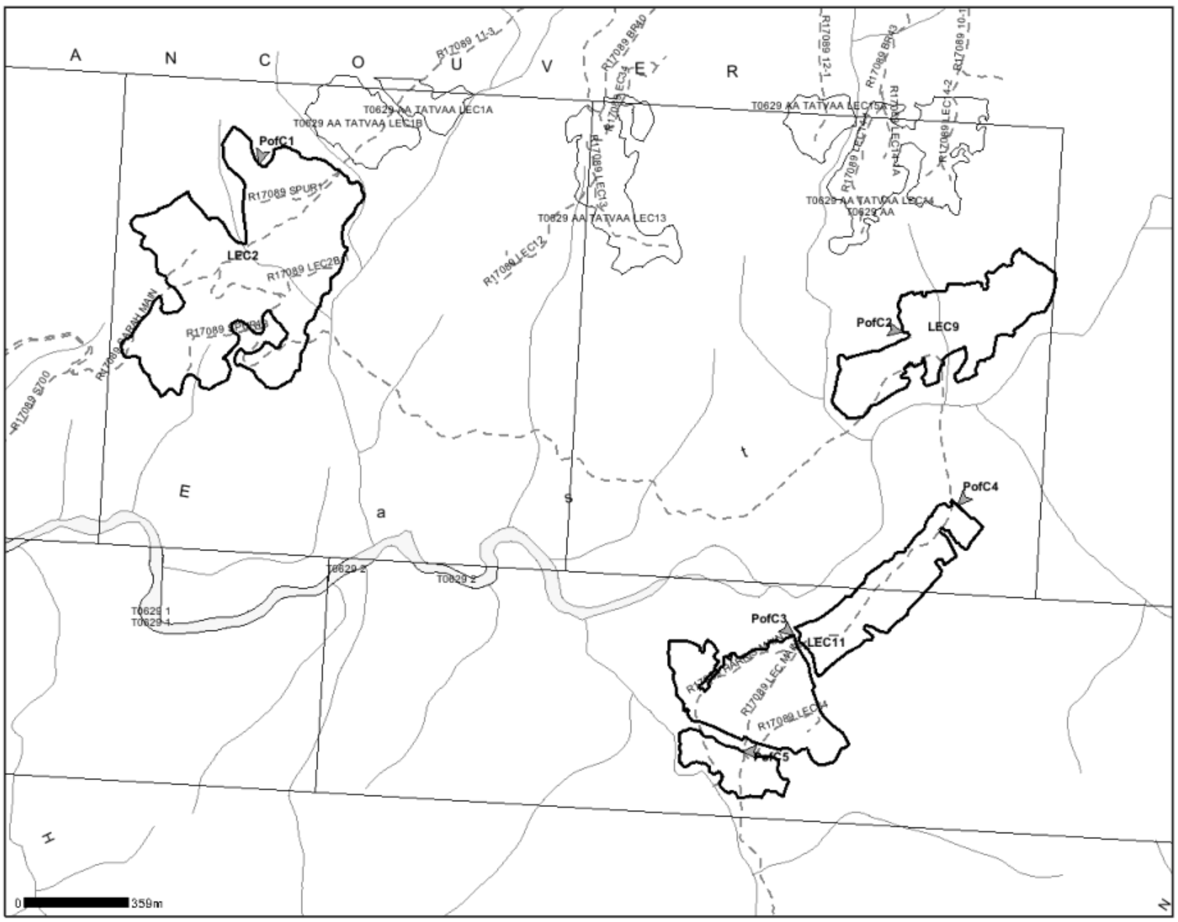
RESERVED TIMBER

The cross-hatched areas identified as Timber Leave Area shown on the cruise plan maps attached to the appraisal for this cutting permit.

MINISTRY OF FORESTS, LANDS AND NATURAL RESOURCE OPERATIONS

EXHIBIT A

MAP OF : T0629 CP AB (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RUPERT DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : Outside Managed Units MGT UNIT NO :
ESF SUBMISSION ID : 1399145 BCGS MAPSHEET NO : 92L.022	SCALE : 1:20000 at A Size Area (Ha): 89.432	UTM : 9 NAD : NAD 83	DRAWN BY : FTA DATE : Mar 2, 2015



Legend

- Tenure Application
- Tenure Road Application
- Retired Tenure Road
- P of C
- P of T
- Tenure Feature
- Range
- TFL
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- Forest Service Road
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- Non Status Road
- Recreation Trails
- Road Permit
- SUP Road
- Right of Way
- Schedule B CP Road
- Mineral Tenure Points
- Cities
- Waterbodies
- River/Stream
- Coastline / Island

LEC2 (40.987 Ha)
PofC1 UTM9 592539, 5568212
LEC9 (17.123 Ha)
PofC2 UTM9 594763, 5567730
LEC11 (31.322 Ha)
PofC3 UTM9 594433, 5566677
PofC4 UTM9 594975, 5567145
PofC5 UTM9 594272, 5566274

Inside Timber Licence T0629
Referral: Mineral Tenure 847596
Save and Except the prior rights
of R17089
Exhibit A reviewed by:
Cyndi Schofield March 5, 2015

BRITISH COLUMBIA

EXHIBIT A

MAP OF : T0629 CP AB (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RUPERT DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : Outside Managed Units MGT UNIT NO :
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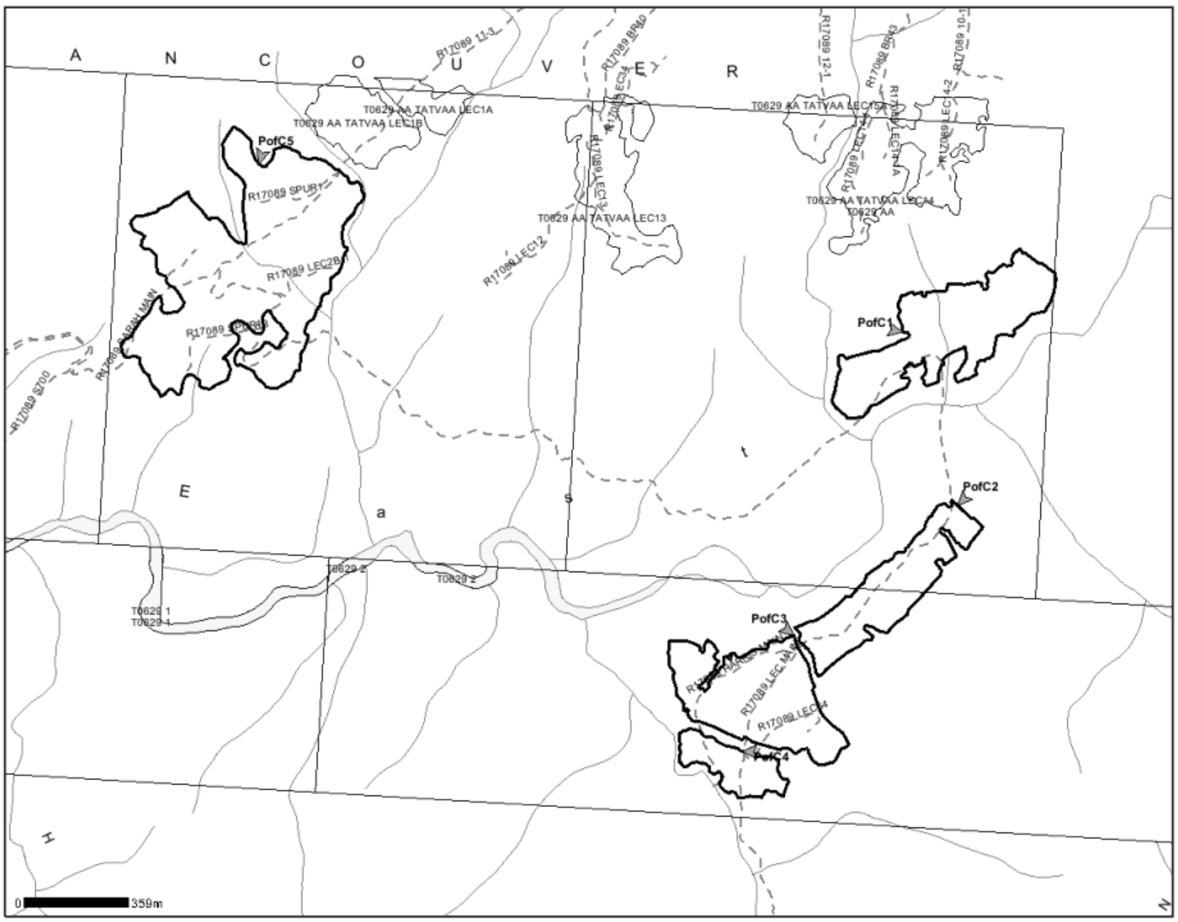

Legend

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- River/Stream
- Coastline / Island

(89.432 Ha)
PofC1 UTM9 594763, 5567730
PofC2 UTM9 594975, 5567145
PofC3 UTM9 594433, 5566677
PofC4 UTM9 594272, 5566274
PofC5 UTM9 592539, 5568212

BRITISH COLUMBIA

EXHIBIT A

MAP OF : T0629 CP AB CB LEC11 (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RUPERT DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : Outside Managed Units MGT UNIT NO :
ESF SUBMISSION ID : 1399145 BCGS MAPSHEET NO : 92L.022	SCALE : 1:10000 at A Size Area (Ha): 31.322	UTM : 9 NAD : NAD 83	DRAWN BY : FTA DATE : Mar 2, 2015

Legend

- Tenure Application
- Tenure Road Application
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- P of C
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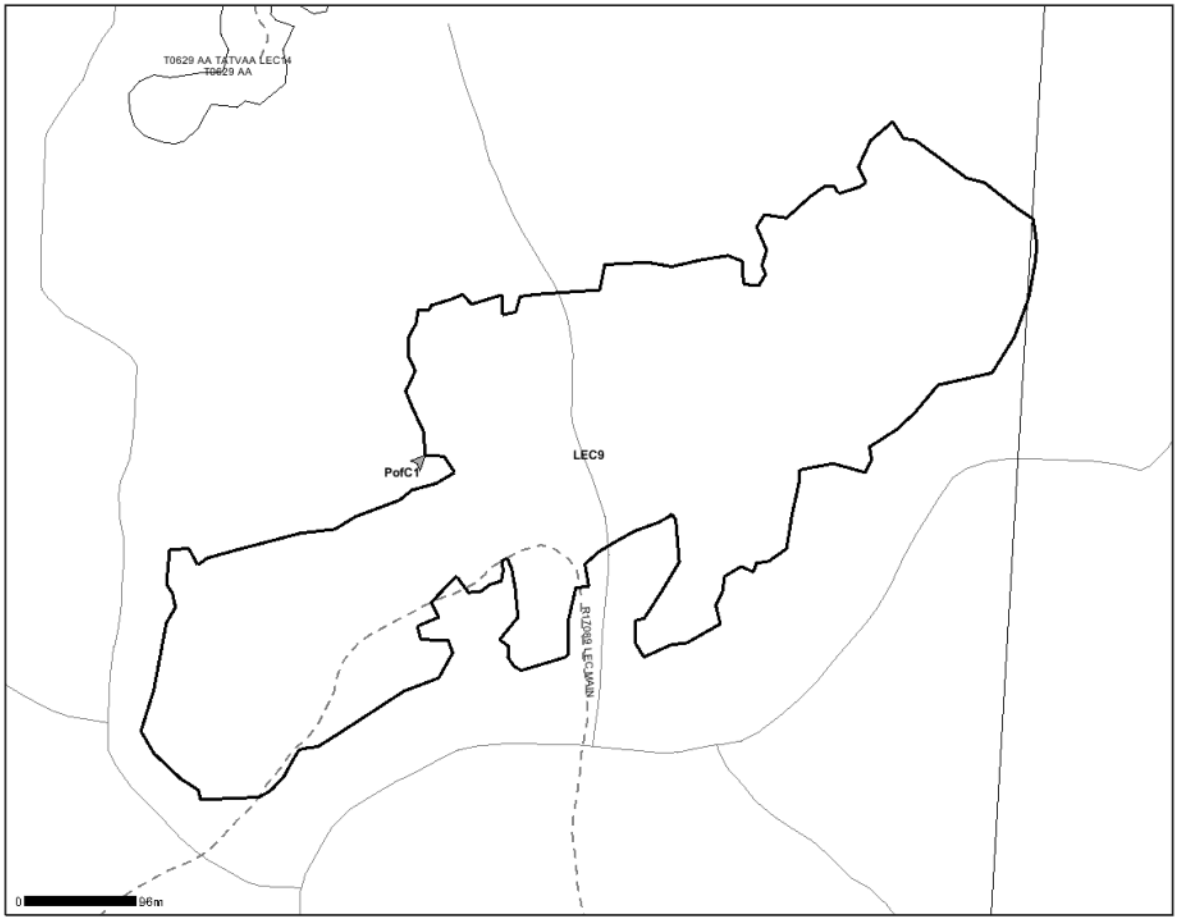
LEC11 (31.322 Ha)
PofC1 UTM9 594433, 5566677
PofC2 UTM9 594975, 5567145
PofC3 UTM9 594272, 5566274

BRITISH COLUMBIA

EXHIBIT A

MAP OF : T0629 CP AB CB LEC9 (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RUPERT DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : Outside Managed Units MGT UNIT NO :
ESF SUBMISSION ID : 1399145 BCGS MAPSHEET NO : 92L.022	SCALE : 1:5000 at A Size Area (Ha): 17.123	UTM : 9 NAD : NAD 83	DRAWN BY : FTA DATE : Mar 2, 2015



Legend

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- Waterbodies
- River/Stream
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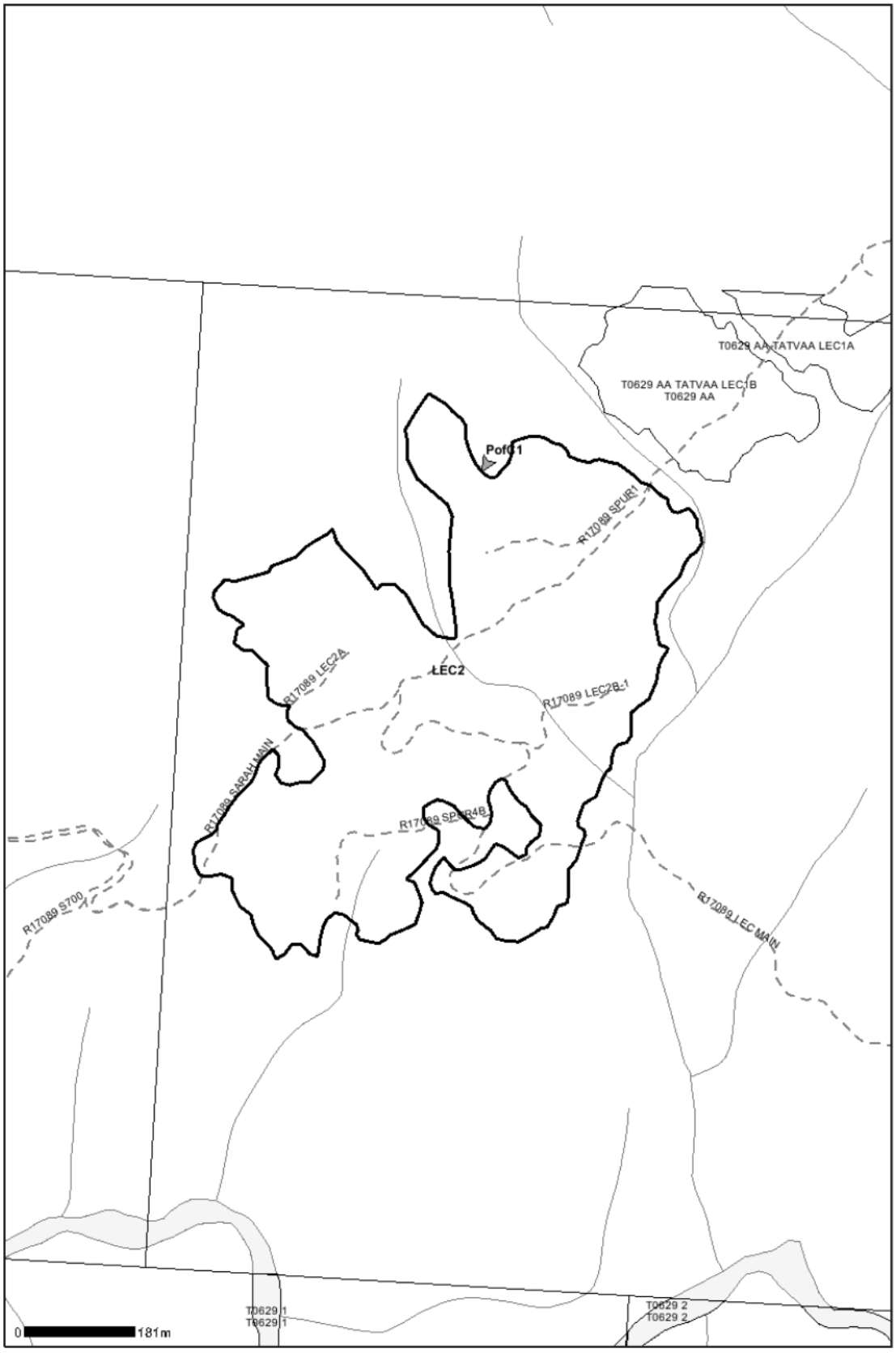
LEC9 (17.123 Ha)
PofC1 UTM9 594763, 5567730

BRITISH COLUMBIA

EXHIBIT A

MAP OF : T0629 CP AB CB LEC2 (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RUPERT DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : Outside Managed Units MGT UNIT NO :
ESF SUBMISSION ID : 1399145 BCGS MAPSHEET NO : 92L.022	SCALE : 1:10000 at A Size Area (Ha): 40.987	UTM : 9 NAD : NAD 83	DRAWN BY : FTA DATE : Mar 2, 2015



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- River/Stream
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LEC2 (40.987 Ha)
PofC1 UTM9 592539, 5568212

Page 107 to/à Page 132

Withheld pursuant to/removed as

DUPLICATE

LIONS GATE
FOREST PRODUCTS LTD

Andrew Ashford, District Manager
Ministry of Forests, Lands and Natural resources
North Island Central Coast District
2217 Mine Road, PO Box 7000
Port McNeill, BC
V0N 2R0

September 05, 2014

REFERENCE: CUTTING PERMIT APPLICATION – T0629 CP 'AA'

Lions Gate Forest Products Ltd (LGFP) makes application for Cutting Permit (CP) 'AA'.

This CP application is comprised of 5 cut-blocks (LEC1A, LEC1B, LEC13, LEC14, and LEC15A). The cut-blocks are located in the East Creek Drainage.

The cut-blocks contained in this application are included in the Lemare Lions Gate FSP. The cut-blocks are entirely contained within T0629 and boundary conflict issues with adjacent liceses (A75083/A59539) have been field verified and blazes found.

LGFP has notified the Quatsino and had a full information sharing session with Ralph Wallas, his team and Kathy DesRochers on May 14, 2014 regarding our plans for this area. During our information sharing it was determined that no Archaeological assessment would be required for the blocks and we would follow 'Standard Operating Procedures', and the Quatsino had no further concerns with our plans. During the engineering and field work there were no heritage features or archaeological important features identified within our proposed cut blocks or along our roads.

The roads required to access these blocks are approved under road permit R17089, and/or pending approval.

Included in this CP application are the following attachments (attached in ECAS):

- 1 copy of the signed CP application (this letter);
- 1:5,000 scale Appraisal Map(s);
- 1:5,000 scale Cruise Map(s);
- Cruise DAT Files;
- Cruise Plan(s) & FS693;
- Cruise Cards;
- Cruise Compilations;
- 1:5,000 scale Road Construction Map;

PO Box 1700.

Port McNeill, BC V0N 2R0

TEL (250) 956-3123 FAX (250) 956-4888 Email: office@lemare.ca

- 1:5,000 scale Plot Map;
- Notification to First Nations (Quatsino) of intent to construct new roads and harvest cut-blocks within T0629;

Please note, all the above attachments were submitted into ECAS. The electronic submissions associated with this application are:

- ECAS id/submission # 62120
- ESF id/submission # 1345439

Please send the approval to Lions Gate Forest Products Ltd. Attention: Josh Hiebert

For further information, please contact the undersigned.

Regards,

Joshua Hiebert, RFT, ATC
Planning Manager
LIONS GATE FOREST PRODUCTS LTD.
3341 Mine Road – PO Box 1700
Port McNeill, B.C., Canada V0N 2R0
Telephone: (250) 956-3123
Fax: (250) 956-4888
Email: jhiebert@lemare.ca

CONSTRUCTION ESTIMATE FORM

Licence	T0629	Cutting Permit	AB	Location CP *		Appraisal Year +	2015
Status	I	I – Initial Estimate, or U – Updated Estimate				Year of Update	
Location Name	East Creek					Road Length	
Description	2014 Klaskino FSR repairs after 2010 storm damage prevented access					Section Built	Y (Yes or No)

Machine Cost (July 1, 2000) List each machine employed and work performed.

Machine Type	Operating Hours	Stand-by Hours	Total Hours	Rate/Hr	Cost	
Hitachi 450 (heavy - 96000-102999lbs	278.5	0	278.5	275.33	76679	
330 Hoe (heavy – 68000 – 87999lbs	568.5		568.5	215.55	122540	
Lowbed – 7axle	80.5	0	80.5	134.95	10863	Machine Cost Total
Rock Drill	156		156	243.60	38002	
Dump Truck – 25-29 tonnes	473.5	0	473.5	175.60	83147	
Tractor-Crawler	204	0	204	180	36720	**383707**

Labour Cost (July 1, 2000) Rate per hour is from Equipment and Labour rates table as per current appraisal manual.

Faller						Labour Cost Total
Engineer						
						0

Materials Cost (July 1, 2000)

Type	Function	Rate	Cost	
				Materials Cost

Freight plus Haulage for Material Only

				Freight/Haulage Total

Engineering, Certification & Supervision See Detailed Engineering Estimates page 51a for those situations when these are applicable.

				Engineering Total

Cost Estimate Form Total 383707

REVIEWED BY:	Dist. Eng.		Dist. Tbr.	
Licensee Signature				Attachment #

* Location CP is the cutting permit where actual work occurred and the cost is allocated to this tributary cutting authority. + Appraisal Year is the first year the cost was put in an appraisal or reappraisal.	

Verbrugge, Cheryl FLNR:EX

From: Josh Hiebert <jhiebert@lemare.ca>
Sent: Tuesday, September 9, 2014 1:59 PM
To: FTA DIC P FLNR:EX
Subject: T0629 CP AA
Attachments: s.16,s.18

I have attached the cover letter for T0629 CP 'AA' Application that I have made on behalf of Lions Gate Forest Products Ltd. All data is entered in ECAS (ID:62120) and the ESF #1345439 was submitted also.
LGFP has notified the Quatsino and had a full information sharing session with Ralph Wallas, his team and Kathy DesRochers on May 14, 2014 regarding our plans for this area. During our information sharing it was determined that no Archaeological assessment would be required for the blocks and we would follow 'Standard Operating Procedures', and the Quatsino had no further concerns with our plans. During the engineering and field work there were no heritage features or archaeological important features identified within our proposed cut blocks or along our roads.

Please let me know if you have any questions and I look forward to hearing from you soon.

Joshua Hiebert, RFT, ATC
Planning Manager
LEMARE

3341 Mine Road – PO Box 609
Port McNeill, B.C., Canada V0N 2R0
Telephone: (250) 956-3123
Cell: (250) 902-8991
Fax: (250) 956-4888
Email: jhiebert@lemare.ca

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Page 138 to/à Page 139

Withheld pursuant to/removed as

s.16;s.18

LIONS GATE
FOREST PRODUCTS LTD

Sharon Hadway
Executive Director, West Coast Operations
Ministry of Forests, Lands, and Natural Resource Operations
2100 Labieux Road
Nanaimo, B.C.
V9T 6E9

April 15, 2014

Dear Madam,

RE: REQUEST FOR LICENCE EXTENSION FOR TIMBER LICENCE T0611 AND T0629.

As per the *Forest Act*, Part 3: Division 5, section 31(a) please accept this letter as an application requesting a three-year extension to Timber Licence (TL) T0611 and T0629, which currently expires April 26, 2015

This TL is located approximately 50 kilometers south west of Port McNeill in proximity to Brooks Peninsula Provincial Park and Klaskino Inlet on the West Coast of Vancouver Island.

Due to numerous slides and debris piles preventing access out Klaskino FSR from 20km to 48km our access to our TL has been cut off since September 2010 and our engineering and planning within the licence was halted, but we are hopeful to start again in the near future once access has been re-established. In June 2013 the reconstruction of the Klaskino FSR (which includes 37 major repairs) was started and the major works were completed October 31, 2013. The reconstruction efforts are being administered by the district through the Provincial Emergency Program. There are an additional 5 bridges, numerous culverts, and road failures that are currently being fixed by Lemare Lake Logging so we can gain access and start our planning in these areas.

In conclusion, Lemare is requesting a three-year extension to the terms of this licence. This extension would provide us with time to start our Forest Management planning.

Thank you for your consideration. Should you require further information, please contact the undersigned at (250) 956-3123 or jhiebert@lemare.ca

Sincerely,

REGISTERED FOREST TECHNOLOGIST
PROVINCE OF BRITISH COLUMBIA
JOSHUA M. HIEBERT
NO. 0556
Apr 17/15

Josh Hiebert, RFT, ATC
Planning Manager
LIONS GATE FOREST PRODUCTS LTD.

cc Matt Feagan, Timber Tenures Specialis, MFLNR
Andrew Ashford, District Manager, MFR-NICC

P.O. BOX 1700 PORT MCNEILL, BC V0N 2R0

TEL (250) 956-3123 FAX (250) 956-4888

Verbrugge, Cheryl FLNR:EX

From: Hosken, Harold W FLNR:EX
Sent: Thursday, December 18, 2014 4:15 PM
To: Brown, Pamela K FLNR:EX
Subject: TRIM: FW: Notice of Commencement

Update for ya!

Harold Hosken, R.F.T.
Natural Resource Officer
North Island - Central Coast Field Unit / West Coast Sub Region
Compliance & Enforcement Branch
Ministry of Forests, Lands and Natural Resource Operations
E-Mail: Harold.Hosken@gov.bc.ca
Telephone: (250) 956-5042
Facsimile: (250) 956-5079

From: Josh Hiebert [mailto:jhiebert@lemare.ca]
Sent: Thursday, December 18, 2014 3:52 PM
To: Bastarache, Paul FLNR:EX
Cc: Blid, Denise C FLNR:EX; Hosken, Harold W FLNR:EX
Subject: Notice of Commencement

Good Afternoon Paul
Please accept this e-mail as Lions Gate Forest Products Ltd. Gwa'Nak Resources Ltd Notification of Commencement of RW Falling, Road Construction ad Harvesting activities as follows

Notice of Commencement				
Tenure	**Cutblock Name**	**Location**	**Activity**	**Date of Commencment**
FL A75918	Bel3	Belize	Harvesting	Dec-14
	Bel5	Belize	Harvesting	Dec-14
	Bel5A	Belize	Harvesting	Dec-14
R19827	East Main	Belize Inlet	Falling	Nov-14
R19827	East Main	Belize Inlet	Road Construction	Nov-14
R17089	LEC14	Kinney Creek	Road Construction	Oct-14
R17089	LEC15	Kinney Creek	Road Construction	Oct-14
R17089	LEC2	Kinney Creek	Road Construction	Oct-14
T0629	LEC13	East Creek	Harvesting	Dec-14

T0629	LEC14	East Creek	Harvesting	Jan-15
T0629	LEC1A	East Creek	Harvesting	Feb-15
T0629	LEC1B	East Creek	Harvesting	Mar-15
T0629	LEC15A	East Creek	Harvesting	Apr-15

Joshua Hiebert, RFT, ATC
Planning Manager
LEMARE

3341 Mine Road – PO Box 609
Port McNeill, B.C., Canada V0N 2R0
Telephone: (250) 956-3123
Cell: (250) 902-8991
Fax: (250) 956-4888
Email: jhiebert@lemare.ca

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TIMBER LICENCE T0629

CUTTING PERMIT AA

Ministry of Forests, Lands and Natural Resource Operations

PURSUANT TO Timber Licence T0629 (the "Licence"), this Cutting Permit is issued to:

LIONS GATE FOREST PRODUCTS LTD.
BOX 1700
PORT MCNEILL, BRITISH COLUMBIA
V0N 2R0
(the "Licensee")

1.00 PERMIT AREA AND TERM

1.01 Subject to the Licence and the forestry legislation, the Licensee is authorized to cut and remove timber from the areas of land within the harvest area(s), **Cutblocks LEC13, LEC14, LEC15A, LEC1A and LEC1B,** as delineated and shown on the attached Exhibit A maps.

1.02 Subject to Paragraph 1.03, and the term of the Licence, the term of this Cutting Permit begins on **November 18, 2014** and expires **April 26, 2015**.

1.03 Provided the Licence does not prohibit extensions, the District Manager may extend the term of this Cutting Permit in accordance with section 58.1 of the *Forest Act*.

1.04 Notwithstanding paragraph 1.03, the term of this Cutting Permit will not exceed 4 years.

1.05 The Licensee must make application for an extension of this Cutting Permit to the District Manager at least 60 days before the expiry of the Cutting Permit and in a form acceptable to the District Manager.

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 TIMBER HARVESTING AND WASTE ASSESSMENT

3.01 The Licensee must not fell standing timber, or must not buck or remove felled or dead and down timber, as the case may be, if:

(a) the timber is specified as reserved timber in paragraph 3.02 of this Cutting Permit; or

(b) under an applicable operational plan or the forestry legislation, the Licensee must not fell, buck or remove the timber, for silviculture, biodiversity or other forest management reasons.

3.02 The following timber is specified as reserved timber:

See Schedule B.

3.03 Subject to Paragraph 3.01, all timber that meets or exceeds the merchantability specifications set out in the Waste Assessment Manual and that is not removed by the Licensee may be identified in an assessment described in Paragraph 3.04 of this Cutting Permit and the volume of that timber, whether standing or felled, that could have been removed under the Licence, but which is not removed may be dealt with as if it had been removed for the purposes of calculating stumpage.

3.04 For the purpose of conducting the assessment of the volume of timber that was not removed, but which could have been removed as described in paragraph 3.03 and for the purpose of determining the volume of timber that is waste for the purposes of paragraph 3.05:

(a) the Licensee must conduct an assessment in accordance with the current Waste Assessment Manual after the Licensee has declared that primary logging (felling timber and yarding or forwarding the timber to central landings or road sides, but does not include removing the timber) has been completed for the Cutting Permit; or

(b) the District Manager may conduct an assessment in accordance with the current Waste Assessment Manual after the expiry of the term of the Cutting Permit or Licence or the Licence and/or Cutting Permit otherwise being terminated, whichever occurs first.

3.05 The District Manager, in a notice given to the Licensee, may require the Licensee to pay in respect of the volume of timber determined under Paragraph 3.04, a monetary waste assessment for all timber, whether standing or felled, that could have been removed under the Licence, but is not removed, and that meets or exceeds the merchantability specifications as set out in the current Waste Assessment Manual.

4.00 TIMBER MARK

4.01 The timber mark(s) for this Cutting Permit is/are:

TATVAA

4.02 The Licensee shall erect signs at all exits from the harvest area, clearly showing the timber mark(s) referred to in paragraph 4.01.

5.00 SCALE BASED STUMPAGE

5.01 For the purpose of determining the amount of stumpage payable in respect of timber removed from the harvest area, the volume or quantity of timber removed will be determined using information provided in a scale of the timber.

5.02 The Licensee must ensure that:

(a) all timber removed from the harvest area 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.

5.03 Immediately upon receipt of a notice, statement or invoice issued on behalf of the Crown, the Licensee must pay stumpage under Part 7 of the *Forest Act* at rates determined, redetermined and varied under section 105 of that Act for all timber removed from the harvest area or not removed and identified under part 3.00 of this Cutting Permit.

6.00 LEGISLATIVE FRAMEWORK

6.01 This Cutting Permit is subject to:

(a) the *Forest Act;*

(b) the *Forest Practices Code of British Columbia Act;*

(c) the *Forest and Range Practices Act*; and

(d) the regulations and standards made under those Acts.

6.02 The Licensee must:

(a) comply with the forestry legislation; and

(b) ensure that its employees, agents and contractors comply with the forestry legislation when engaging in or carrying out activities or operations under or associated with this Cutting Permit.

6.03 Nothing in this Cutting Permit is to be construed as authorizing the Licensee to cut or remove timber or engage in or carry out any other forest practices until all applicable operational plans for both the harvest area and any corresponding roads have been prepared or approved by the District Manager.

6.04 Nothing in this Cutting Permit is to be construed as authorizing the Licensee to carry out any operations or engage in any activities otherwise than in accordance with the requirements of the forestry legislation.

7.00 ROADS

7.01 The Licensee must ensure that all roads constructed or modified by or on behalf of the Licensee on the harvest area are:

(a) identified on a forest development plan or a forest stewardship plan and authorized under a road permit; or

(b) authorized under paragraph 7.02.

7.02 Subject to the Licence and forestry legislation, the Licensee may construct or modify roads under the authority of this Cutting Permit on harvest area if the roads are:

(a) identified on a logging plan;

(b) wholly contained within a cut block identified on a forest development plan; and

(c) not identified on a forest development plan or a forest stewardship plan as providing access to more than one cut block.

7.03 Subject to paragraph 7.04, a road referred to in paragraph 7.02 may be used for non industrial purposes by any person without charge.

7.04 The Licensee may close or restrict use of a road referred to in paragraph 7.02, if:

(a) in the opinion of the District Manager, activities or operations under or associated with this Cutting Permit represent a danger to life or property;

(b) the District Manager consents to the closure or restriction; and

(c) the Licensee complies with any directions of the District Manager with respect to the closure or restriction, including directions regarding the location and marking of gates and the posting of warning notices.

8.00 MISCELLANEOUS

8.01 The Schedules and Exhibit "A" map(s) attached to this Cutting Permit are deemed to be part of this Cutting Permit.

8.02 This Cutting Permit is deemed to be part of the Licence.

8.03 The Licence will govern the interpretation of this Cutting Permit.

8.04 The Licensee must notify the District Manager in writing in a form acceptable to the District Manager, when all harvest related obligations are complete.

9.00 INTERPRETATION

9.01 In this Cutting Permit:

"forestry legislation" means the legislation outlined in Paragraph 6.01 of this Cutting Permit;

"harvest area" means the area or areas allocated for the activities conducted by the Licensee pursuant to the Licence and this Cutting Permit and which for greater detail are outlined on the attached Exhibit "A" map(s);

"remove" means the removal of timber from the harvest area and "removed" and "removing" have the corresponding meanings;

"waste" means timber, whether standing or felled, that could have been removed under the Cutting Permit but was not removed, and which meets or exceeds the specifications of timber merchantability as stated in the Waste Assessment Manual, and as determined in accordance with the Waste Assessment Manual; and

"Waste Assessment Manual" means the "Provincial Logging Residue and Waste Measurement Procedures Manual".

_____

Andrew Ashford, RPF, District Manager
North Island – Central Coast Forest District

SCHEDULE A

SPECIAL CONDITIONS AND REQUIREMENTS

1.00 ORDERLY CONDITIONS

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

2.00 HAZARD TREES

2.01 The Licensee may cut and remove hazard trees from within fifty (50) metres of the boundaries of the cutblock's(s') total merchantable area.

2.02 The Licensee may fell trees outside of the cutblock(s') boundaries but within the area described in Paragraph 2.01 if the person conducting tree felling or rigging tail hold/anchor trees determines that the tree represents a safety hazard according to the Worker's Compensation Board standards.

2.03 Trees felled under Paragraph 2.01 and Paragraph 2.02 shall be bucked and utilized according to the specifications included in the Licence and/or Cutting Permit.

3.00 TREE CROWN MODIFICATION

3.01 The Licensee may cut, damage or modify the crowns of trees located outside the boundaries of the total merchantable area of the cutblocks listed in Paragraph 1.01 on page 1 of the permit and the locations of those specified trees are indicated as "Windfirming" coloured in purple and cross-hatched in white and shown on the appraisal maps for those cutblocks attached to the appraisal for this cutting permit. The purpose of the modification of the crowns of the aforementioned trees is to reduce the risk of damage by wind and hence windfallen timber at the cutblocks' boundaries and beyond.

4.00 OTHER RIGHTS

4.01 The Licensee's rights under this Permit are subject to any other rights of use and occupation over the Permit Area and the Clearing Area which the Crown has granted to third parties and the Licensee covenants not to obstruct or impede a third party in their authorized use or occupation of these areas.

4.02 Except where a mineral reserve established under section 22 (2) of the *Mineral Tenure Act* allows otherwise, the Licensee covenants and agrees not to obstruct or impede the use of tenures which have been, or which may be, issued to third parties under the *Mineral Tenure Act*.

4.03 In consideration of the foregoing, the Licensee agrees to indemnify and save harmless the Crown from and against all claims for loss or damage, whether caused by the Licensee's acts or omissions, including losses or damages arising out of the Licensee's interference or obstruction of a third party's authorized use, or occupation of the Permit Area or Clearing Area.

SCHEDULE B

RESERVED TIMBER

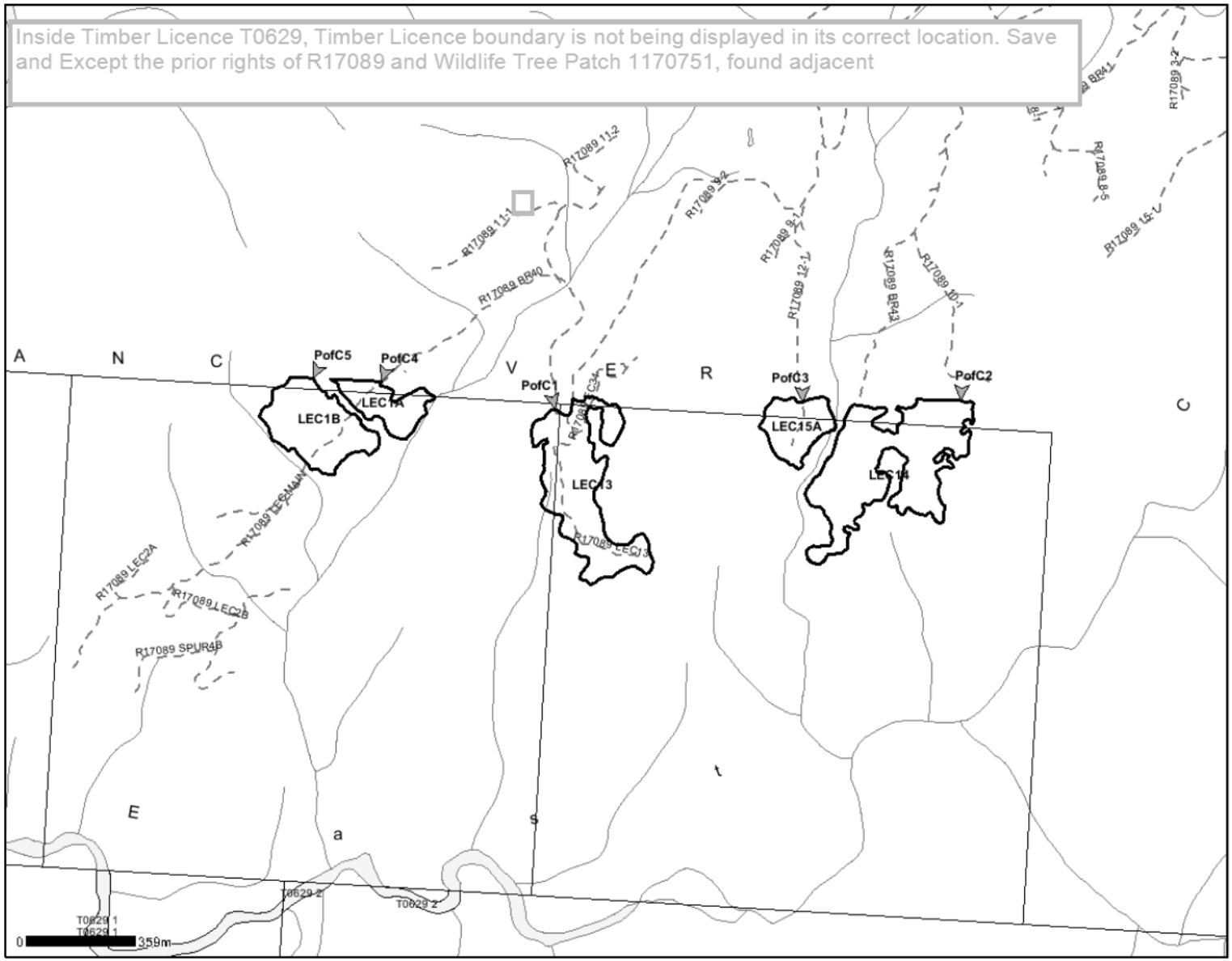
There is no specified reserved timber under this cutting permit.

BRITISH COLUMBIA

MINISTRY OF FORESTS, LANDS AND NATURAL RESOURCE OPERATIONS

EXHIBIT A

MAP OF : T0629 CP AA (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RUPERT DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : Outside Managed Units MGT UNIT NO :
ESF SUBMISSION ID : 1345439 BCGS MAPSHEET NO : 92L.022	SCALE : 1:20000 at A Size Area (Ha): 38.746	UTM : 9 NAD : NAD 83	DRAWN BY : FTA DATE : Sep 5, 2014



Legend

- Tenure Application
- Tenure Road Application
- Retired Tenure Road
- P of C
- P of T
- Tenure Feature
- Range
- TFL
- Provincial Forest
- Forest Service Road
- Highway
- Municipal Road
- Non Status Road
- Recreation Trails
- Road Permit
- SUP Road
- Right of Way
- Schedule B CP Road
- Mineral Tenure Points
- Cities
- Waterbodies
- River/Stream
- Coastline / Island

LEC13 (10.75 Ha)
PofC1 UTM9 593656, 5568456
LEC14 (14.182 Ha)
PofC2 UTM9 594980, 5568539
LEC15A (3.656 Ha)
PofC3 UTM9 594464, 5568513
LEC1A (3.183 Ha)
PofC4 UTM9 593086, 5568523
LEC1B (6.974 Ha)
PofC5 UTM9 592861, 5568525

REVIEWED
By Cyndi Schofield at 10:11 am, Sep 10, 2014

BRITISH COLUMBIA

EXHIBIT A

MAP OF : T0629 CP AA (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RUPERT DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : Outside Managed Units MGT UNIT NO :
ESF SUBMISSION ID : 1345439 BCGS MAPSHEET NO : 92L.022	SCALE : 1:15000 at A Size Area (Ha): 38.746	UTM : 9 NAD : NAD 83	DRAWN BY : FTA DATE : Sep 5, 2014

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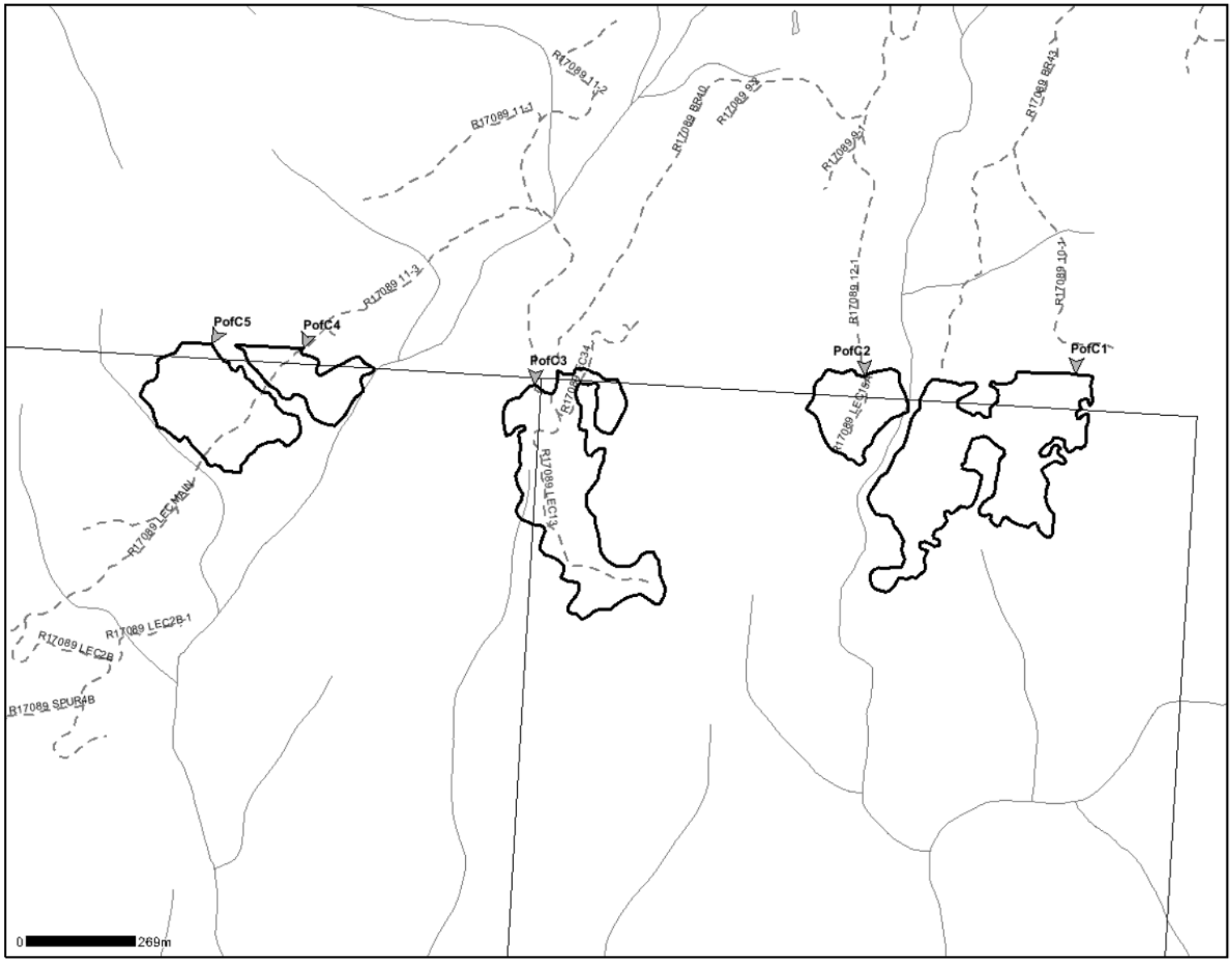

Legend

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- Mineral Tenure Points
- Cities
- Waterbodies
- River/Stream
- Coastline / Island

(38.746 Ha)
PofC1 UTM9 594980, 5568539
PofC2 UTM9 594464, 5568513
PofC3 UTM9 593656, 5568456
PofC4 UTM9 593086, 5568523
PofC5 UTM9 592861, 5568525

BRITISH COLUMBIA

EXHIBIT A

MAP OF : T0629 CP AA CB LEC15A (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RUPERT DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : Outside Managed Units MGT UNIT NO :
ESF SUBMISSION ID : 1345439 BCGS MAPSHEET NO : 92L.022	SCALE : 1:5000 at A Size Area (Ha): 3.656	UTM : 9 NAD : NAD 83	DRAWN BY : FTA DATE : Sep 5, 2014

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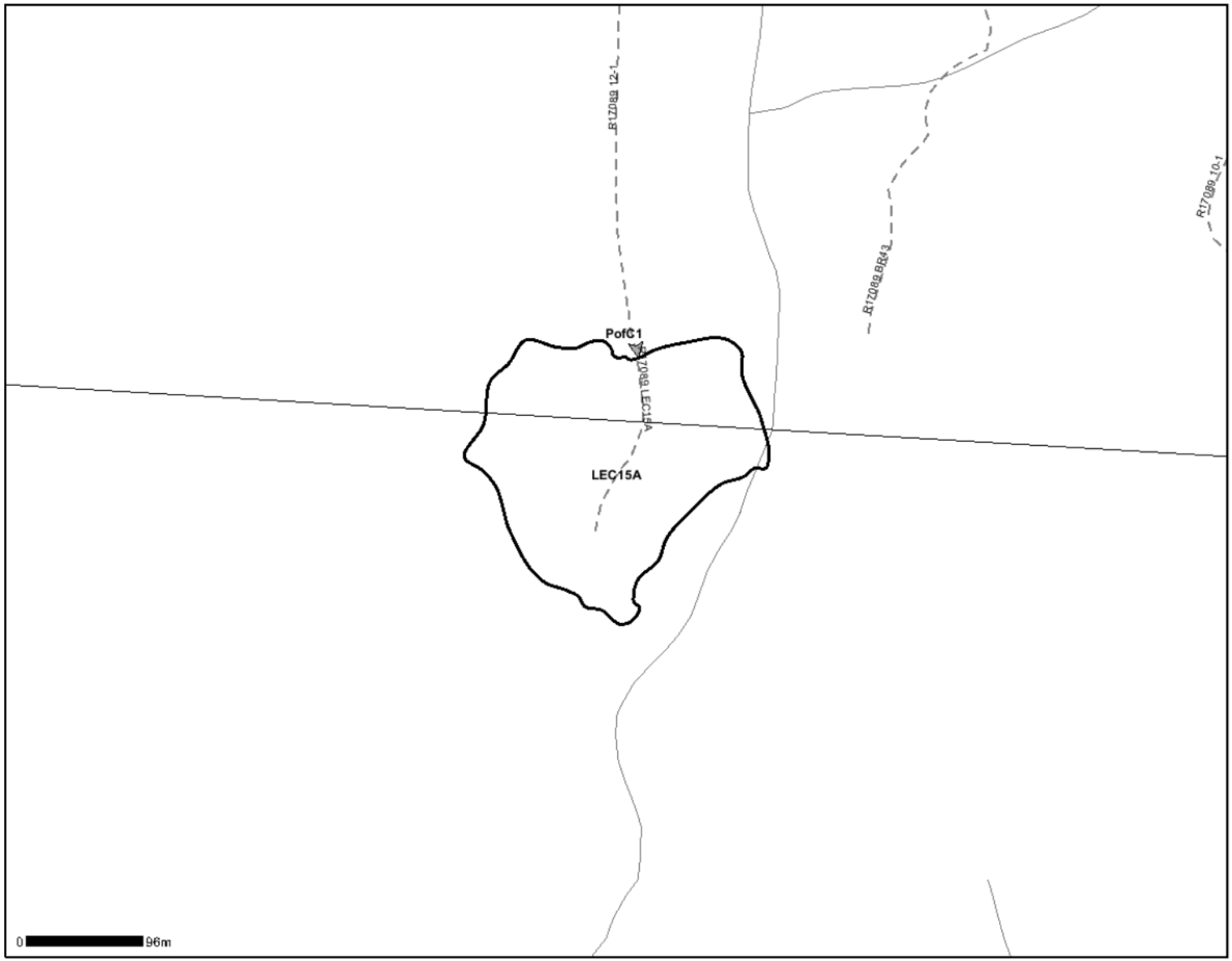

Legend

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- SUP Road
- Right of Way
- Schedule B CP Road
- Mineral Tenure Points
- Cities
- Waterbodies
- River/Stream
- Coastline / Island

LEC15A (3.656 Ha)
PofC1 UTM9 594464, 5568513

BRITISH COLUMBIA

EXHIBIT A

MAP OF : T0629 CP AA CB LEC14 (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RUPERT DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : Outside Managed Units MGT UNIT NO :
ESF SUBMISSION ID : 1345439 BCGS MAPSHEET NO : 92L.022	SCALE : 1:5000 at A Size Area (Ha): 14.182	UTM : 9 NAD : NAD 83	DRAWN BY : FTA DATE : Sep 5, 2014

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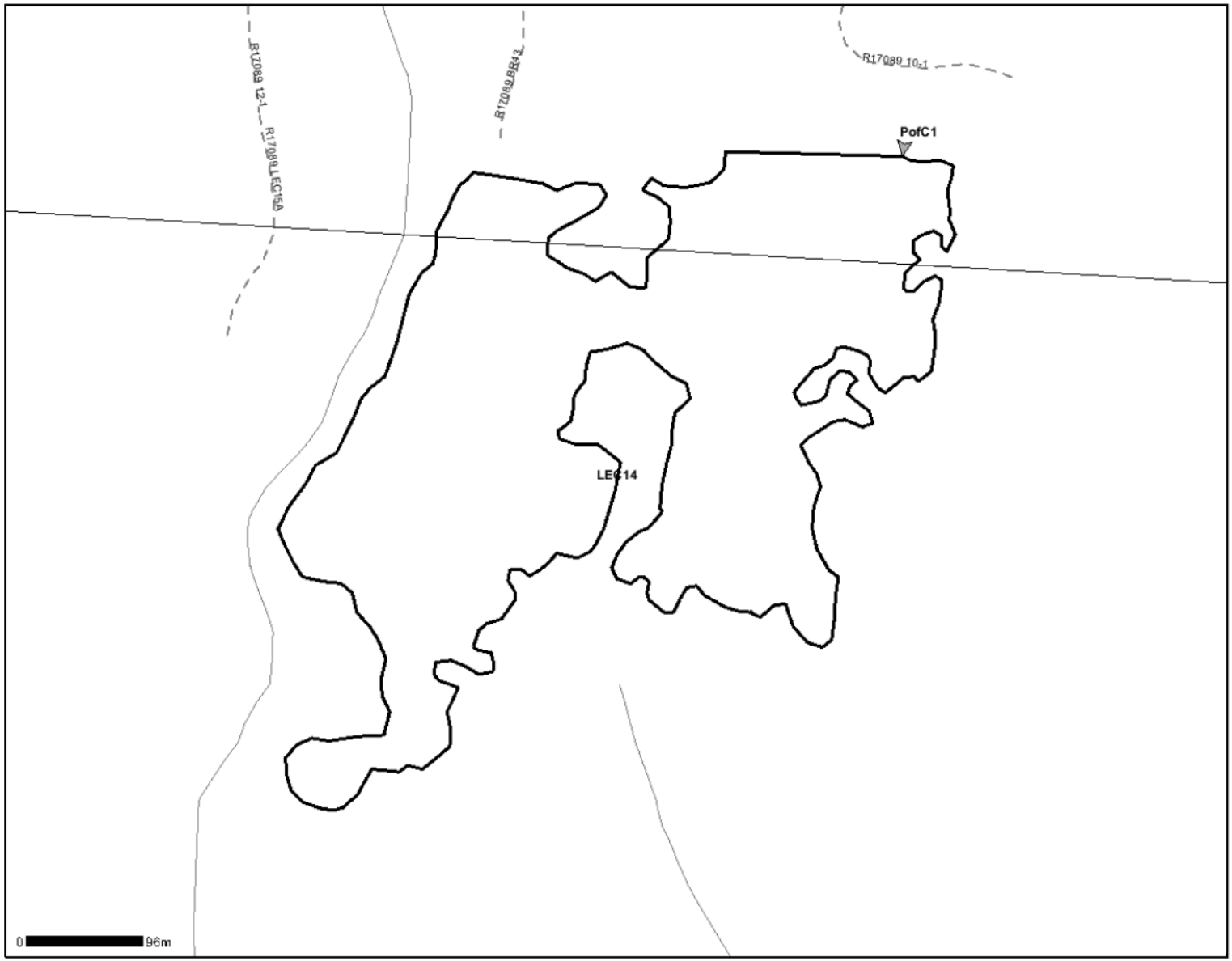

Legend

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- SUP Road
- Right of Way
- Schedule B CP Road
- Mineral Tenure Points
- Cities
- Waterbodies
- River/Stream
- Coastline / Island

LEC14 (14.182 Ha)
PofC1 UTM9 594980, 5568539

BRITISH COLUMBIA

EXHIBIT A

MAP OF : T0629 CP AA CB LEC13 (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RUPERT DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : Outside Managed Units MGT UNIT NO :
ESF SUBMISSION ID : 1345439 BCGS MAPSHEET NO : 92L.022	SCALE : 1:5000 at A Size Area (Ha): 10.75	UTM : 9 NAD : NAD 83	DRAWN BY : FTA DATE : Sep 5, 2014

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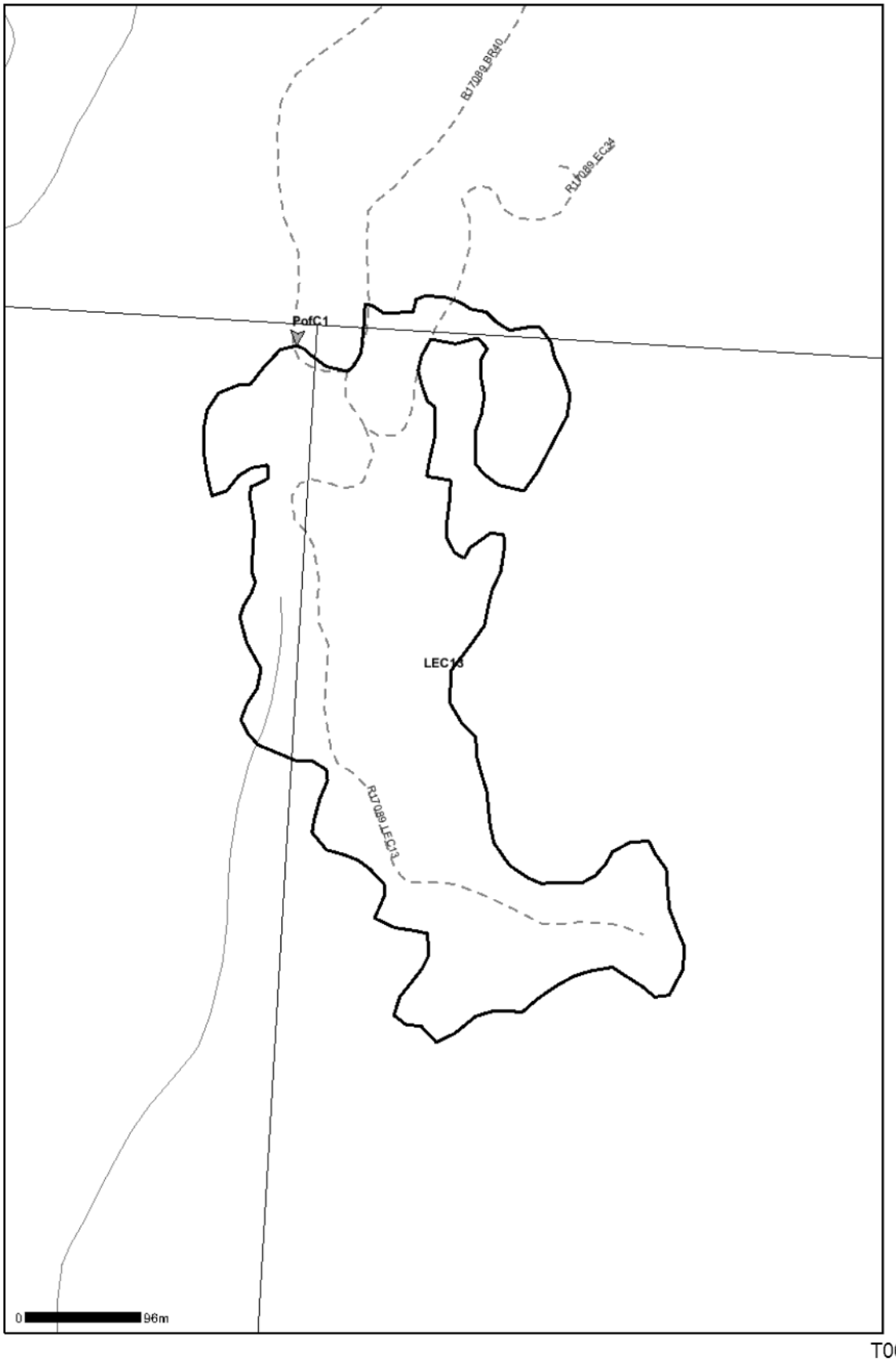

Legend

- Tenure Application
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- P of C
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- Tenure Feature
- Range
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- Provincial Forest
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- Road Permit
- SUP Road
- Right of Way
- Schedule B CP Road
- Mineral Tenure Points
- Cities
- Waterbodies
- River/Stream
- Coastline / Island

LEC13 (10.75 Ha)
PofC1 UTM9 593656, 5568456

BRITISH COLUMBIA

EXHIBIT A

MAP OF : T0629 CP AA CB LEC1B (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RUPERT DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : Outside Managed Units MGT UNIT NO :
ESF SUBMISSION ID : 1345439 BCGS MAPSHEET NO : 92L.022	SCALE : 1:5000 at A Size Area (Ha): 6.974	UTM : 9 NAD : NAD 83	DRAWN BY : FTA DATE : Sep 5, 2014

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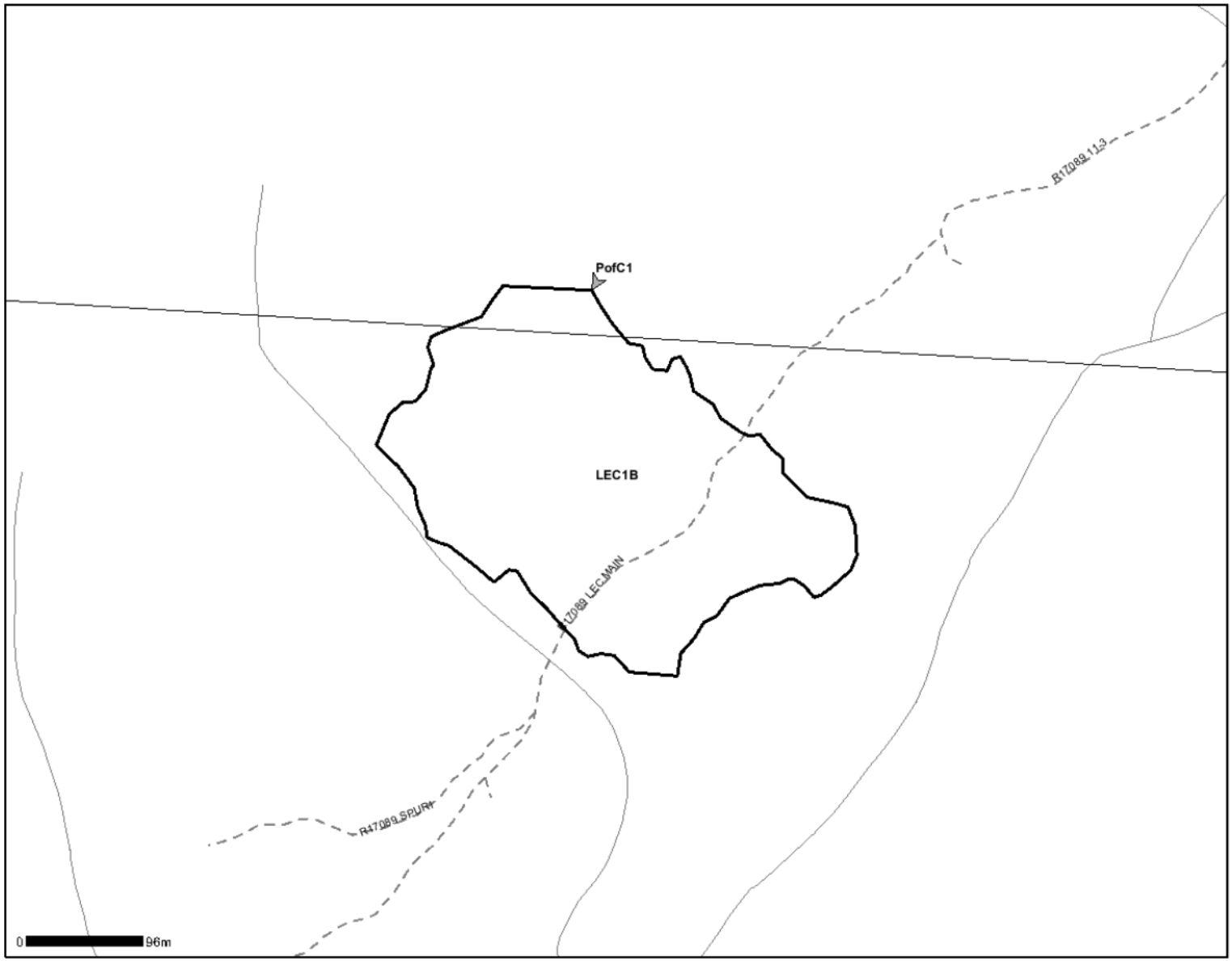

Legend

- Tenure Application
- Tenure Road Application
- Retired Tenure Road
- P of C
- P of T
- Tenure Feature
- Range
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- Provincial Forest
- Forest Service Road
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- Recreation Trails
- Road Permit
- SUP Road
- Right of Way
- Schedule B CP Road
- Mineral Tenure Points
- Cities
- Waterbodies
- River/Stream
- Coastline / Island

LEC1B (6.974 Ha)
PofC1 UTM9 592861, 5568525

BRITISH COLUMBIA

EXHIBIT A

MAP OF : T0629 CP AA CB LEC1A (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RUPERT DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : Outside Managed Units MGT UNIT NO :
ESF SUBMISSION ID : 1345439 BCGS MAPSHEET NO : 92L.022	SCALE : 1:5000 at A Size Area (Ha): 3.183	UTM : 9 NAD : NAD 83	DRAWN BY : FTA DATE : Sep 5, 2014

N
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Legend

- Tenure Application
- Tenure Road Application
- Retired Tenure Road
- P of C
- P of T
- Tenure Feature
- Range
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- Provincial Forest
- Forest Service Road
- Highway
- Municipal Road
- Non Status Road
- Recreation Trails
- Road Permit
- SUP Road
- Right of Way
- Schedule B CP Road
- Mineral Tenure Points
- Cities
- Waterbodies
- River/Stream
- Coastline / Island

LEC1A (3.183 Ha)
PofC1 UTM9 593086, 5568523

TIMBER LICENCE T0629

CUTTING PERMIT AA

Ministry of Forests, Lands and Natural Resource Operations

PURSUANT TO Timber Licence T0629 (the "Licence"), this Cutting Permit is issued to:

LIONS GATE FOREST PRODUCTS LTD.
BOX 1700
PORT MCNEILL, BRITISH COLUMBIA
V0N 2R0
(the "Licensee")

1.00 PERMIT AREA AND TERM

1.01 Subject to the Licence and the forestry legislation, the Licensee is authorized to cut and remove timber from the areas of land within the harvest area(s), **Cutblocks LEC13, LEC14, LEC15A, LEC1A and LEC1B,** as delineated and shown on the attached Exhibit A maps.

1.02 Subject to Paragraph 1.03, and the term of the Licence, the term of this Cutting Permit begins on **November 18, 2014** and expires **April 26, 2015**.

1.03 Provided the Licence does not prohibit extensions, the District Manager may extend the term of this Cutting Permit in accordance with section 58.1 of the *Forest Act*.

1.04 Notwithstanding paragraph 1.03, the term of this Cutting Permit will not exceed 4 years.

1.05 The Licensee must make application for an extension of this Cutting Permit to the District Manager at least 60 days before the expiry of the Cutting Permit and in a form acceptable to the District Manager.

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 TIMBER HARVESTING AND WASTE ASSESSMENT

3.01 The Licensee must not fell standing timber, or must not buck or remove felled or dead and down timber, as the case may be, if:

(a) the timber is specified as reserved timber in paragraph 3.02 of this Cutting Permit; or

(b) under an applicable operational plan or the forestry legislation, the Licensee must not fell, buck or remove the timber, for silviculture, biodiversity or other forest management reasons.

3.02 The following timber is specified as reserved timber:

See Schedule B.

3.03 Subject to Paragraph 3.01, all timber that meets or exceeds the merchantability specifications set out in the Waste Assessment Manual and that is not removed by the Licensee may be identified in an assessment described in Paragraph 3.04 of this Cutting Permit and the volume of that timber, whether standing or felled, that could have been removed under the Licence, but which is not removed may be dealt with as if it had been removed for the purposes of calculating stumpage.

3.04 For the purpose of conducting the assessment of the volume of timber that was not removed, but which could have been removed as described in paragraph 3.03 and for the purpose of determining the volume of timber that is waste for the purposes of paragraph 3.05:

(a) the Licensee must conduct an assessment in accordance with the current Waste Assessment Manual after the Licensee has declared that primary logging (felling timber and yarding or forwarding the timber to central landings or road sides, but does not include removing the timber) has been completed for the Cutting Permit; or

(b) the District Manager may conduct an assessment in accordance with the current Waste Assessment Manual after the expiry of the term of the Cutting Permit or Licence or the Licence and/or Cutting Permit otherwise being terminated, whichever occurs first.

3.05 The District Manager, in a notice given to the Licensee, may require the Licensee to pay in respect of the volume of timber determined under Paragraph 3.04, a monetary waste assessment for all timber, whether standing or felled, that could have been removed under the Licence, but is not removed, and that meets or exceeds the merchantability specifications as set out in the current Waste Assessment Manual.

4.00 TIMBER MARK

4.01 The timber mark(s) for this Cutting Permit is/are:

TATVAA

4.02 The Licensee shall erect signs at all exits from the harvest area, clearly showing the timber mark(s) referred to in paragraph 4.01.

5.00 SCALE BASED STUMPAGE

5.01 For the purpose of determining the amount of stumpage payable in respect of timber removed from the harvest area, the volume or quantity of timber removed will be determined using information provided in a scale of the timber.

5.02 The Licensee must ensure that:

(a) all timber removed from the harvest area 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.

5.03 Immediately upon receipt of a notice, statement or invoice issued on behalf of the Crown, the Licensee must pay stumpage under Part 7 of the *Forest Act* at rates determined, redetermined and varied under section 105 of that Act for all timber removed from the harvest area or not removed and identified under part 3.00 of this Cutting Permit.

6.00 LEGISLATIVE FRAMEWORK

6.01 This Cutting Permit is subject to:

(a) the *Forest Act;*

(b) the *Forest Practices Code of British Columbia Act;*

(c) the *Forest and Range Practices Act*; and

(d) the regulations and standards made under those Acts.

6.02 The Licensee must:

(a) comply with the forestry legislation; and

(b) ensure that its employees, agents and contractors comply with the forestry legislation when engaging in or carrying out activities or operations under or associated with this Cutting Permit.

6.03 Nothing in this Cutting Permit is to be construed as authorizing the Licensee to cut or remove timber or engage in or carry out any other forest practices until all applicable operational plans for both the harvest area and any corresponding roads have been prepared or approved by the District Manager.

6.04 Nothing in this Cutting Permit is to be construed as authorizing the Licensee to carry out any operations or engage in any activities otherwise than in accordance with the requirements of the forestry legislation.

7.00 ROADS

7.01 The Licensee must ensure that all roads constructed or modified by or on behalf of the Licensee on the harvest area are:

(a) identified on a forest development plan or a forest stewardship plan and authorized under a road permit; or

(b) authorized under paragraph 7.02.

7.02 Subject to the Licence and forestry legislation, the Licensee may construct or modify roads under the authority of this Cutting Permit on harvest area if the roads are:

(a) identified on a logging plan;

(b) wholly contained within a cut block identified on a forest development plan; and

(c) not identified on a forest development plan or a forest stewardship plan as providing access to more than one cut block.

7.03 Subject to paragraph 7.04, a road referred to in paragraph 7.02 may be used for non industrial purposes by any person without charge.

7.04 The Licensee may close or restrict use of a road referred to in paragraph 7.02, if:

(a) in the opinion of the District Manager, activities or operations under or associated with this Cutting Permit represent a danger to life or property;

(b) the District Manager consents to the closure or restriction; and

(c) the Licensee complies with any directions of the District Manager with respect to the closure or restriction, including directions regarding the location and marking of gates and the posting of warning notices.

8.00 MISCELLANEOUS

8.01 The Schedules and Exhibit "A" map(s) attached to this Cutting Permit are deemed to be part of this Cutting Permit.

8.02 This Cutting Permit is deemed to be part of the Licence.

8.03 The Licence will govern the interpretation of this Cutting Permit.

8.04 The Licensee must notify the District Manager in writing in a form acceptable to the District Manager, when all harvest related obligations are complete.

9.00 INTERPRETATION

9.01 In this Cutting Permit:

"forestry legislation" means the legislation outlined in Paragraph 6.01 of this Cutting Permit;

"harvest area" means the area or areas allocated for the activities conducted by the Licensee pursuant to the Licence and this Cutting Permit and which for greater detail are outlined on the attached Exhibit "A" map(s);

"remove" means the removal of timber from the harvest area and "removed" and "removing" have the corresponding meanings;

"waste" means timber, whether standing or felled, that could have been removed under the Cutting Permit but was not removed, and which meets or exceeds the specifications of timber merchantability as stated in the Waste Assessment Manual, and as determined in accordance with the Waste Assessment Manual; and

"Waste Assessment Manual" means the "Provincial Logging Residue and Waste Measurement Procedures Manual".

Signing on behalf of
Andrew Ashford, DM

2014.11.18
16:18:59 -08'00'

Andrew Ashford, RPF, District Manager
North Island – Central Coast Forest District

SCHEDULE A

SPECIAL CONDITIONS AND REQUIREMENTS

1.00 ORDERLY CONDITIONS

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

2.00 HAZARD TREES

2.01 The Licensee may cut and remove hazard trees from within fifty (50) metres of the boundaries of the cutblock's(s') total merchantable area.

2.02 The Licensee may fell trees outside of the cutblock(s') boundaries but within the area described in Paragraph 2.01 if the person conducting tree felling or rigging tail hold/anchor trees determines that the tree represents a safety hazard according to the Worker's Compensation Board standards.

2.03 Trees felled under Paragraph 2.01 and Paragraph 2.02 shall be bucked and utilized according to the specifications included in the Licence and/or Cutting Permit.

3.00 TREE CROWN MODIFICATION

3.01 The Licensee may cut, damage or modify the crowns of trees located outside the boundaries of the total merchantable area of the cutblocks listed in Paragraph 1.01 on page 1 of the permit and the locations of those specified trees are indicated as "Windfirming" coloured in purple and cross-hatched in white and shown on the appraisal maps for those cutblocks attached to the appraisal for this cutting permit. The purpose of the modification of the crowns of the aforementioned trees is to reduce the risk of damage by wind and hence windfallen timber at the cutblocks' boundaries and beyond.

4.00 OTHER RIGHTS

4.01 The Licensee's rights under this Permit are subject to any other rights of use and occupation over the Permit Area and the Clearing Area which the Crown has granted to third parties and the Licensee covenants not to obstruct or impede a third party in their authorized use or occupation of these areas.

4.02 Except where a mineral reserve established under section 22 (2) of the *Mineral Tenure Act* allows otherwise, the Licensee covenants and agrees not to obstruct or impede the use of tenures which have been, or which may be, issued to third parties under the *Mineral Tenure Act*.

4.03 In consideration of the foregoing, the Licensee agrees to indemnify and save harmless the Crown from and against all claims for loss or damage, whether caused by the Licensee's acts or omissions, including losses or damages arising out of the Licensee's interference or obstruction of a third party's authorized use, or occupation of the Permit Area or Clearing Area.

SCHEDULE B

RESERVED TIMBER

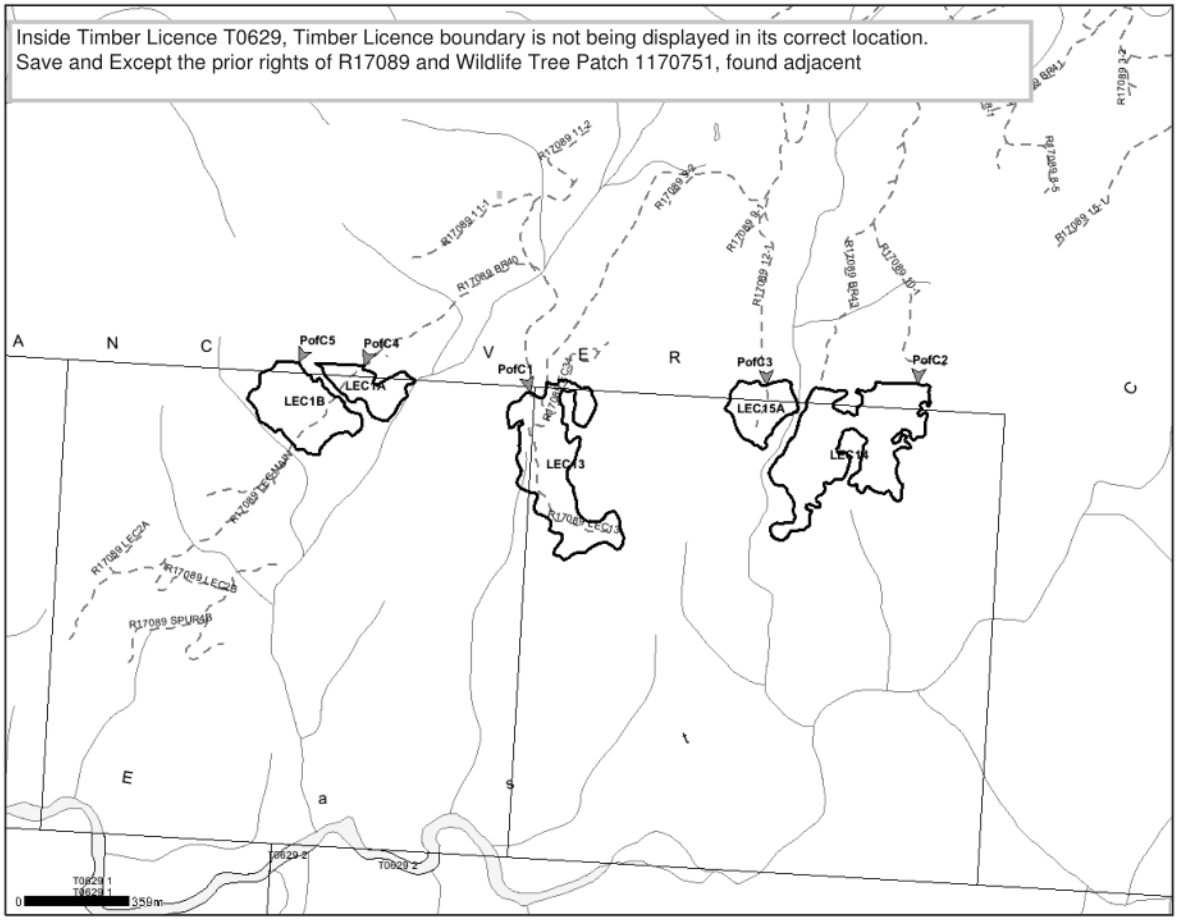
There is no specified reserved timber under this cutting permit.

BRITISH COLUMBIA

MINISTRY OF FORESTS, LANDS AND NATURAL RESOURCE OPERATIONS

EXHIBIT A

MAP OF : T0629 CP AA (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RUPERT DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : Outside Managed Units MGT UNIT NO :
ESF SUBMISSION ID : 1345439 BCGS MAPSHEET NO : 92L.022	SCALE : 1:20000 at A Size Area (Ha): 38.746	UTM : 9 NAD : NAD 83	DRAWN BY : FTA DATE : Sep 5, 2014



Legend

- Tenure Application
- Tenure Road Application
- Retired Tenure Road
- P of C
- P of T
- Tenure Feature
- Range
- TFL
- Provincial Forest
- Forest Service Road
- Highway
- Municipal Road
- Non Status Road
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- Road Permit
- SUP Road
- Right of Way
- Schedule B CP Road
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- Cities
- Waterbodies
- River/Stream
- Coastline / Island

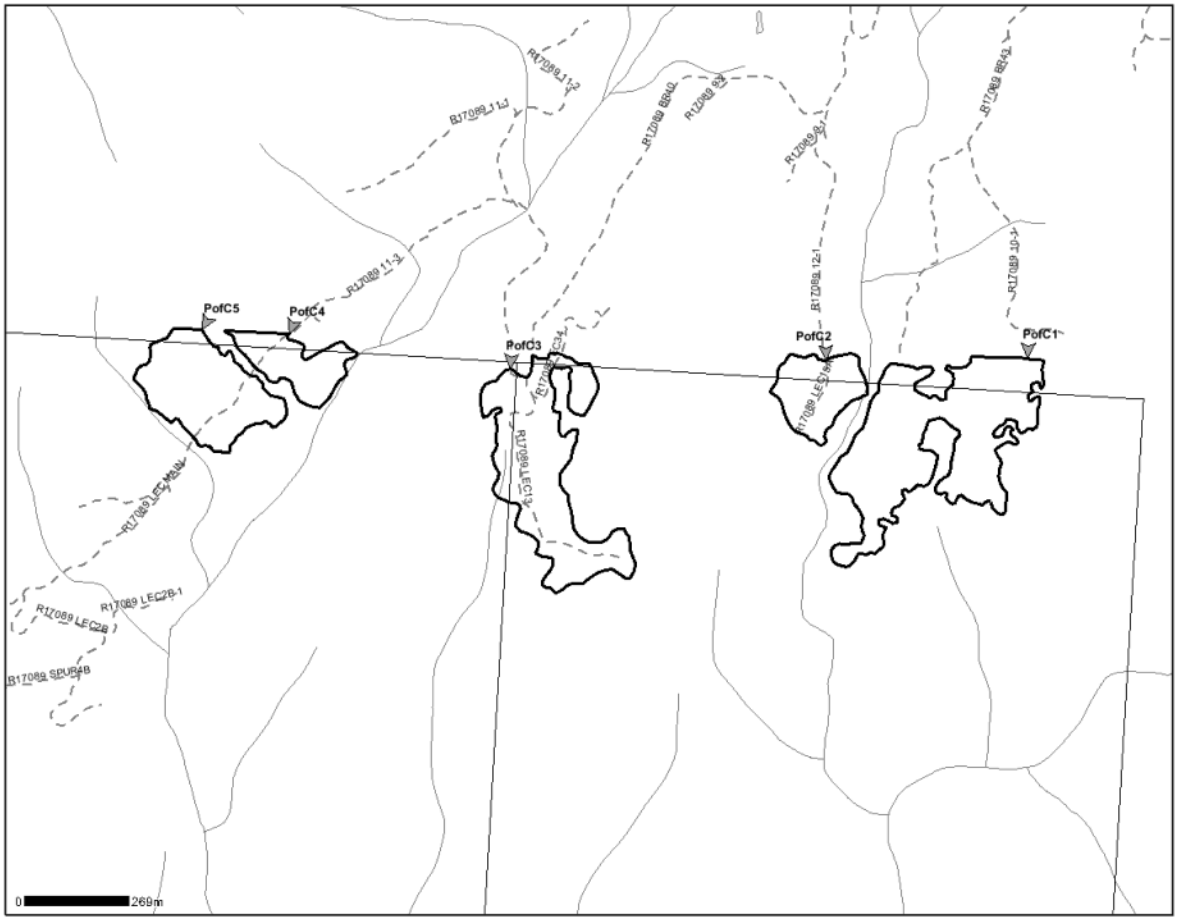
LEC13 (10.75 Ha)
PofC1 UTM9 593656, 5568456
LEC14 (14.182 Ha)
PofC2 UTM9 594980, 5568539
LEC15A (3.656 Ha)
PofC3 UTM9 594464, 5568513
LEC1A (3.183 Ha)
PofC4 UTM9 593086, 5568523
LEC1B (6.974 Ha)
PofC5 UTM9 592861, 5568525

REVIEWED
By Cyndi Schofield at 10:11 am, Sep 10, 2014

BRITISH COLUMBIA

EXHIBIT A

MAP OF : T0629 CP AA (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RUPERT DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : Outside Managed Units MGT UNIT NO :
ESF SUBMISSION ID : 1345439 BCGS MAPSHEET NO : 92L.022	SCALE : 1:15000 at A Size Area (Ha): 38.746	UTM : 9 NAD : NAD 83	DRAWN BY : FTA DATE : Sep 5, 2014



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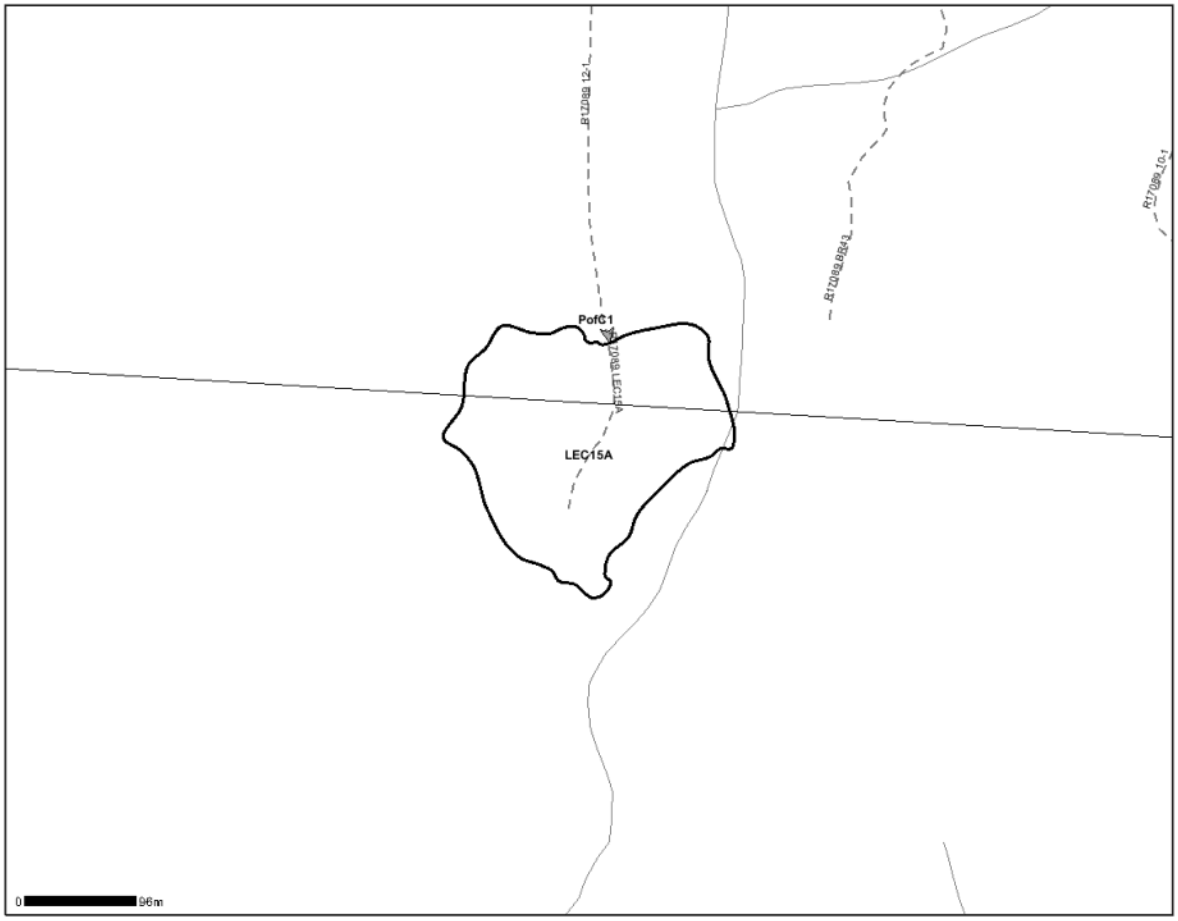
(38.746 Ha)
PofC1 UTM9 594980, 5568539
PofC2 UTM9 594464, 5568513
PofC3 UTM9 593656, 5568456
PofC4 UTM9 593086, 5568523
PofC5 UTM9 592861, 5568525

BRITISH COLUMBIA

EXHIBIT A

MAP OF : T0629 CP AA CB LEC15A (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RUPERT DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : Outside Managed Units MGT UNIT NO :
ESF SUBMISSION ID : 1345439 BCGS MAPSHEET NO : 92L.022	SCALE : 1:5000 at A Size Area (Ha): 3.656	UTM : 9 NAD : NAD 83	DRAWN BY : FTA DATE : Sep 5, 2014



Legend

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- River/Stream
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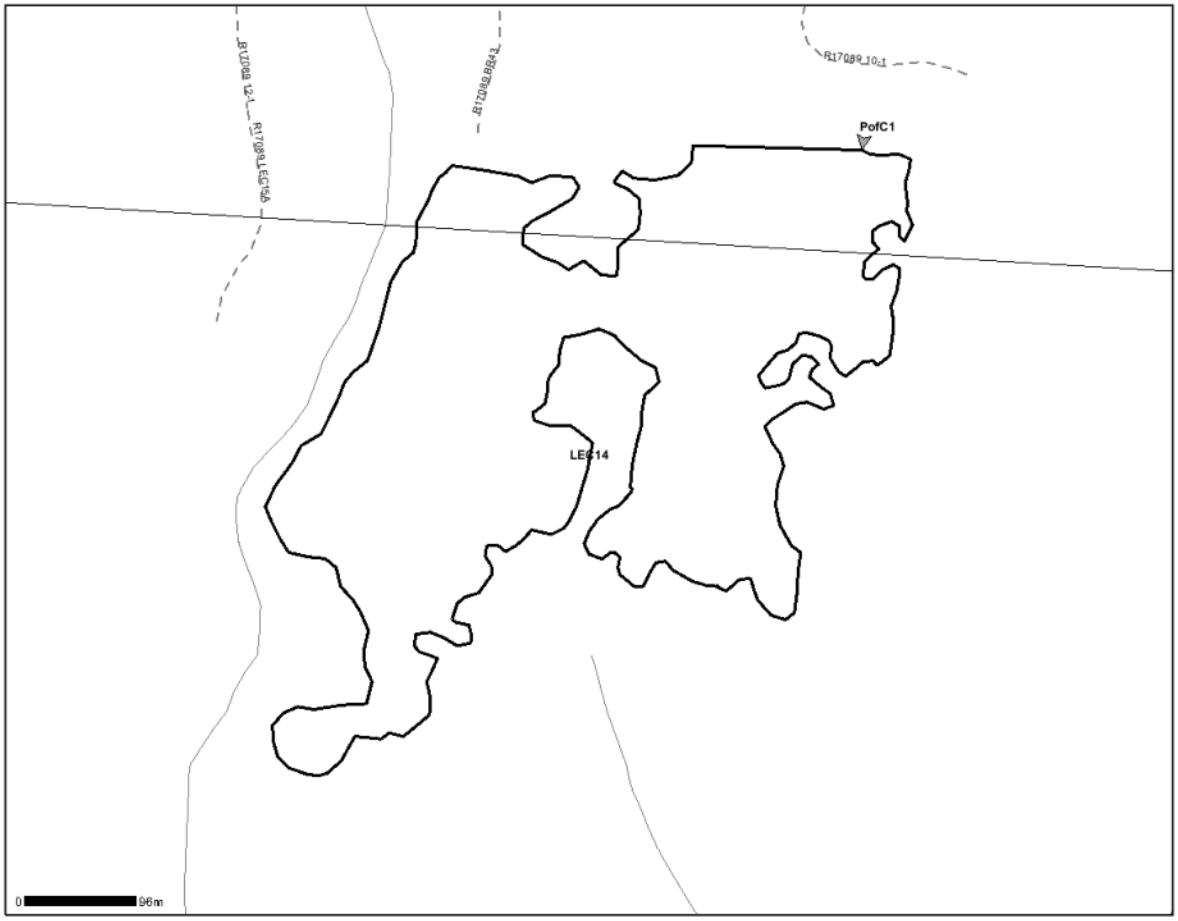
LEC15A (3.656 Ha)
PofC1 UTM9 594464, 5568513

BRITISH COLUMBIA

EXHIBIT A

MAP OF : T0629 CP AA CB LEC14 (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RUPERT DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : Outside Managed Units MGT UNIT NO :
ESF SUBMISSION ID : 1345439 BCGS MAPSHEET NO : 92L.022	SCALE : 1:5000 at A Size Area (Ha): 14.182	UTM : 9 NAD : NAD 83	DRAWN BY : FTA DATE : Sep 5, 2014



Legend

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- Waterbodies
- River/Stream
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LEC14 (14.182 Ha)
PofC1 UTM9 594980, 5568539

BRITISH COLUMBIA

EXHIBIT A

MAP OF : T0629 CP AA CB LEC13 (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RUPERT DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : Outside Managed Units MGT UNIT NO :
ESF SUBMISSION ID : 1345439 BCGS MAPSHEET NO : 92L.022	SCALE : 1:5000 at A Size Area (Ha): 10.75	UTM : 9 NAD : NAD 83	DRAWN BY : FTA DATE : Sep 5, 2014

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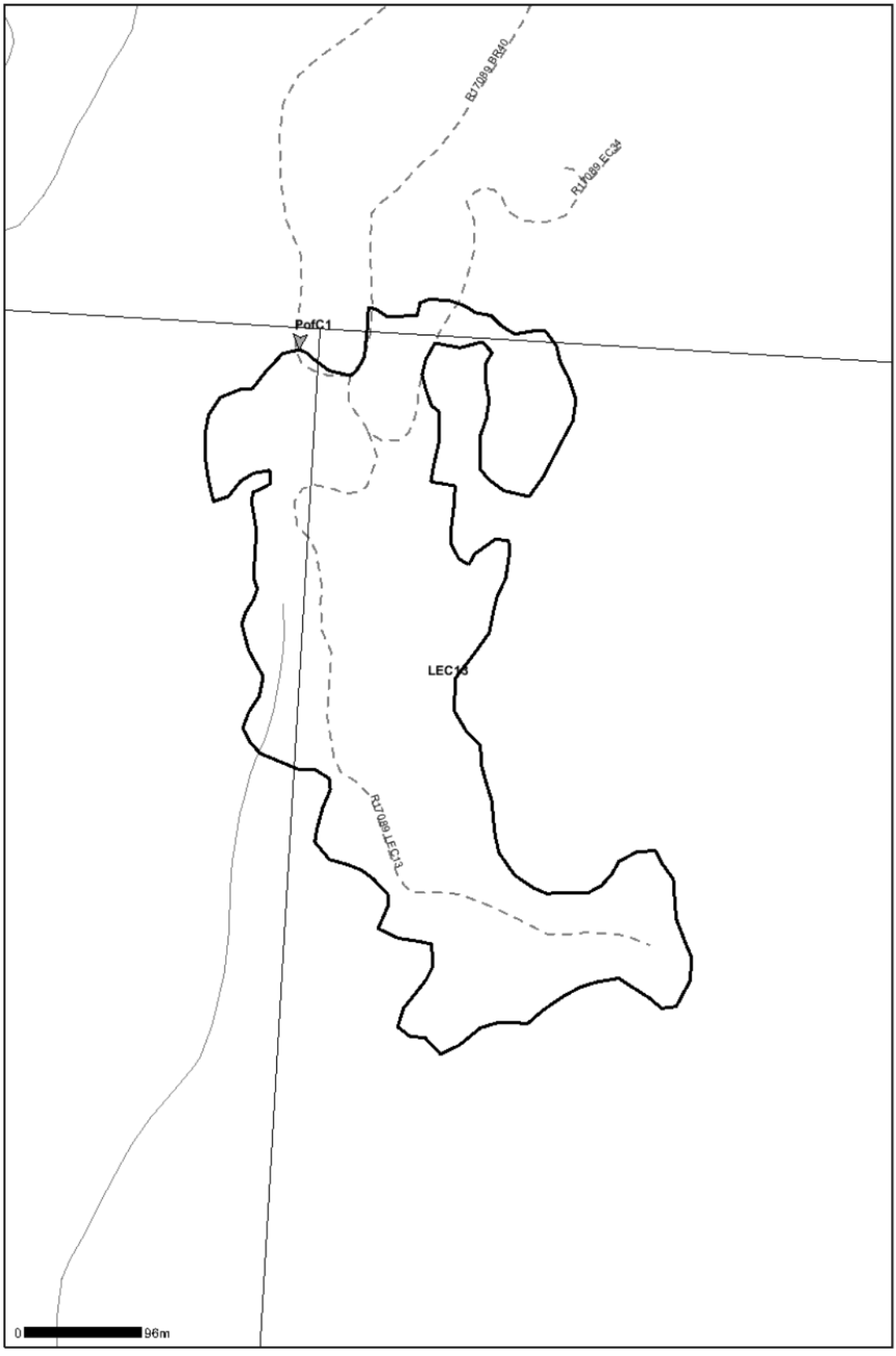

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LEC13 (10.75 Ha)
PofC1 UTM9 593656, 5568456

BRITISH COLUMBIA

EXHIBIT A

MAP OF : T0629 CP AA CB LEC1B (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RUPERT DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : Outside Managed Units MGT UNIT NO :
ESF SUBMISSION ID : 1345439 BCGS MAPSHEET NO : 92L.022	SCALE : 1:5000 at A Size Area (Ha): 6.974	UTM : 9 NAD : NAD 83	DRAWN BY : FTA DATE : Sep 5, 2014

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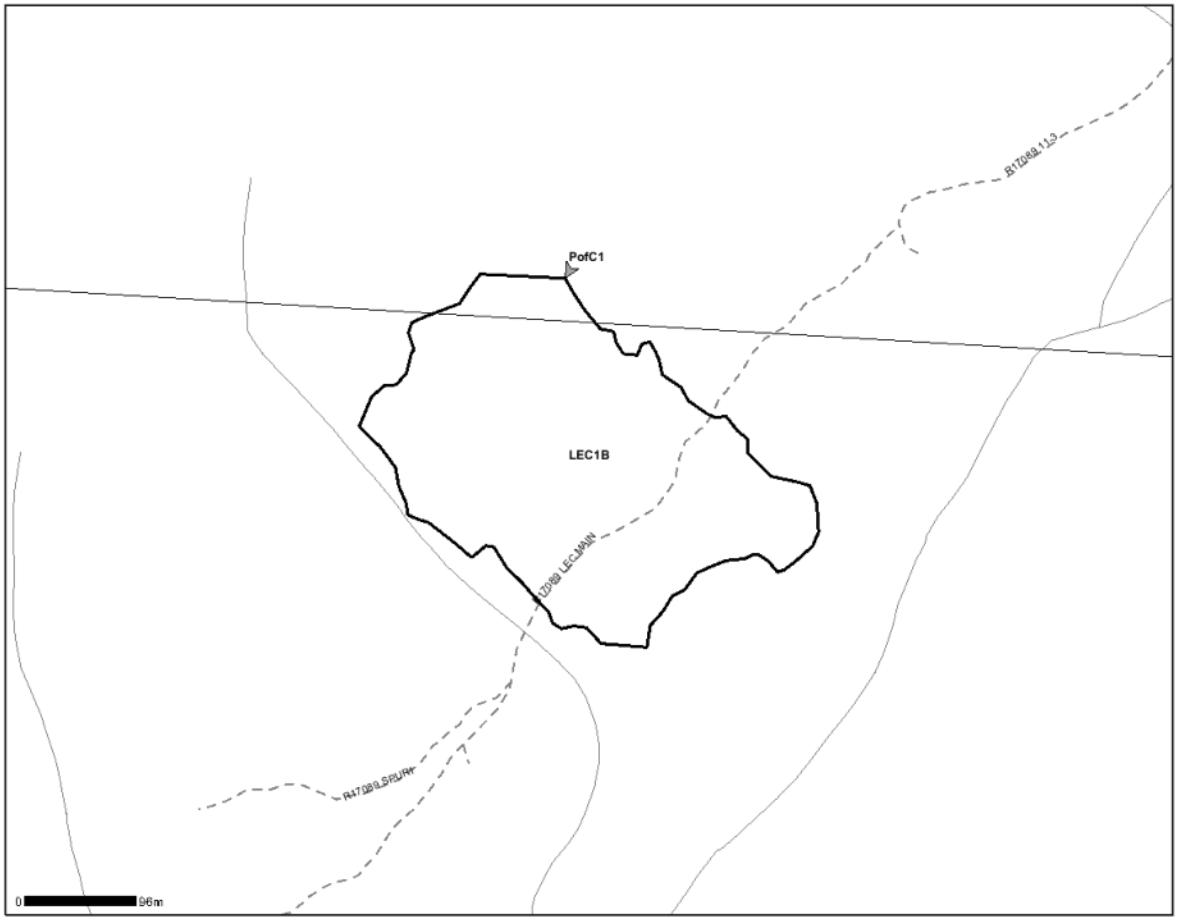

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LEC1B (6.974 Ha)
PofC1 UTM9 592861, 5568525

BRITISH COLUMBIA

EXHIBIT A

MAP OF : T0629 CP AA CB LEC1A (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RUPERT DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : Outside Managed Units MGT UNIT NO :
ESF SUBMISSION ID : 1345439 BCGS MAPSHEET NO : 92L.022	SCALE : 1:5000 at A Size Area (Ha): 3.183	UTM : 9 NAD : NAD 83	DRAWN BY : FTA DATE : Sep 5, 2014

Legend

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LEC1A (3.183 Ha)
PofC1 UTM9 593086, 5568523

BRITISH COLUMBIA

Fact Sheet for Administrative Decision requiring Consultation with First Nations

Administrative Decision: Timber Licence Extension
RCO File Number(s): 19510-20/T0611
19510-20/T0629

Date Fact Sheet Prepared: May 20, 2014
Fact Sheet Prepared by: Matt Feagan

Licences: T0611, T0629

Licensee: Lions Gate Forest Products Ltd.
Licensee Contact: Josh Hiebert, RFT

Decision Maker: Sharon Hadway, Regional Executive Director
Legislative Reference: *Forest Act* Section 31

Briefing: Section 31 of the *Forest Act* states that the regional executive director may extend the term of a timber licence for a period not exceeding 3 years if the application is made before the expiration of the term. Lions Gate Forest Products Ltd. has requested a 3 year extension of the listed Timber Licences prior to the expiry of the licences. The licenses expire on April 26, 2015.

Decision Deadline: August 31, 2014
Consultation Closure Deadline: July 30, 2014 (if possible, or as priorities allow)
District Contact: Kathy DesRochers

Coast Area Tenures Contacts

File Lead: Matt Feagan, Tenures Officer
First Nation Consultation Co-ordination: Barb Royle, Timber Administrator
Attachments: Timber Licence Maps, Extension Request

Ministry of Forests, Lands and Natural Resource Operations

West Coast Region

Location:
2100 Labieux Road
Nanaimo, BC
V9T 6E9
CANADA

Mailing Address:
2100 Labieux Road
Nanaimo, BC V9T 6E9

Tel: (250) 751-7001
Fax: (250) 751-7190

BRITISH COLUMBIA

Ministry of Forests, Lands and Natural Resource Operations

COAST APPRAISAL DATA SUBMISSION

Licence	T0629	**Cutting Permit**	AA	**Primary Timber Mark**	TATVAA
ECAS ID	62120			**ECAS Status**	Received

ACKNOWLEDGEMENTS

This Appraisal Data Submission is prepared in accordance with the *Coast Appraisal Manual* as of this date with truthful information on the timber to be harvested, site conditions, harvesting, development, silviculture plans, and other information.

If the R.P.F. or R.F.T. is not a staff member of the Licensee, then the

Licensee Representative is:

Name: Hiebert, Josh M

Phone: (250)956-3123

Fax: (250)956-4888

E-mail Address: jhiebert@lemare.ca

Registered Professional Forester/Registered Forest Technologist:

Select one of the options below

○ I certify I personally completed the work described herein.

● I certify that the work described herein fulfills 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 Britsh Columbia Forest Professionals.

Name: Hiebert, Joshua **R.P.F./R.F.T. #:** 0556

Phone: (250)956-3123 **Fax:** _____ **Registered Forest Technologist:** ☑

E-mail Address: JHIEBERT@LEMARE.CA

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

REFERENCE INFORMATION

Licensee Name: | **ECAS Status:** Received

Timber Mark	Timber Mark Cruise Vol. (m^3)	Primary Mark
TATVAA	25,354	☑

Geographic Forest District: DNI - North Island - Central Coast Natural Resource District

Administrative Forest District: DNI - North Island - Central Coast Natural Resource District

TSA: 33 - Kingcome TSA | **File Type:** A06 - Timber Licence

TSB: 33A - Kingcome TSA Brooks Block | **NRFL Bonus Bid:** $/$m^3$

Major Centre Distance: 176 km | **POA Distance:** 317 km

Appraisal Type: ● New Appraisal ○ Reappraisal

Reappraisal Reason:

Appraisal Effective Date: 2014-07-22 | **Appraisal Expiry Date:**

Total Net Cruise Volume: 25354 m^3 | **Single Tree Selection Cruise Grades:** ☐

Single Tree Selection Volumes: 0 m^3 | **Is Second Growth Coniferous Volume >= 80% of Total Coniferous Volume:** ☐ 0%

Net Volume Second Growth Coniferous: 106 m^3 | **Total Coniferous Volume:** 25354 m^3

Sampling Error % (at 2 standard deviations): 14.6 %

Rate Calculation Method: ○CVP ● MPS

Volume by Species

Species	Volume (m^3)
Balsam	1556
Cedar	13762
Cypress	1386
Hemlock	8650

Amendments Since Last Cruise Compilation

Block	Approval Date	Additions (ha)	Deletions (ha)
	Totals		

Initial Merchantable Area: (record to nearest 0.1 ha) 32.4 ha

Net Amendments: 0.0 ha

Total Merchantable Area: 32.4 ha

Appraisal Year	Area Logged (ha)
2014	0

OPERATING COST INFORMATION

Tree To Truck Cost Estimates

Average Side Slope: 53 %

CP Avg. Vol. / Log: 0.82 m^3

Conventional Logging

Cable Yarding:	23066 m^3
Ground Systems:	2288 m^3
Skyline > 600m:	0 m^3
NHSVPH:	783.50 m^3 /ha

Helicopter Logging

Land Drop:	0 m^3
Water Drop:	0 m^3
Total Helicopter:	0 m^3
Heli Single Standing Stem Selection:	0 m^3
Heli Selection (excludes HSSSS):	0 m^3

Log Transportation Estimates

Truck Hauling

Average Truck Hauling Distance: 51.2 km (nearest 0.1 km)

Approved Road Use Charge: 1.30 $/m^3$

Point of Appraisal: ALBE - Alberni

Water Transportation

Point of Origin: CLCK - Cleagh Creek

2nd Point Of Origin:

Administration and Other Estimates

Routine Road Management: ● Yes ○ No

The licensee incurs the Basic Silviculture Cost? ● Yes ○ No

Weighted Crew Transportation Distance: 52.0 km (nearest 0.1 km)

Is the Cutting Permit Accessible? ● Yes ○ No

OPERATING COST INFORMATION

Specified Operations

Description	Rate $/ m^3
Tree Crown Modification	0.15
COMMENTS:	

OPERATING COST INFORMATION

Road Development Check

Cut Block / Road Name	Station Start	Station End	Type	Road Section Partial Percent
15a	0	190	Road	
BRANCH 40	0	6569	Re-Surfacing	
Branch 43	0	2482	Re-Surfacing	
Branch 43	347	353	Bridge	0
Branch 43	458	462	Bridge	0
Branch 43	528	532	Bridge	0
Branch 43	777	783	Bridge	0
Branch 43	816	824	Bridge	0
Branch 43	966	975	Bridge	0
East Creek	0	10000	Re-Surfacing	
LEC Main	0	230	Road	
LEC Main	230	460	Road	
LEC13	0	500	Road	
LEC14-1 AP	0	8	Road	
LEC14-1 AP	8	51	Road	
LEC14-1 AP	51	55	Road	
LEC14-1 AP	55	66	Road	
LEC14-1 AP	66	100	Road	
LEC14-1 AP	100	125	Road	
LEC14-1 AP	125	127	Road	
LEC14-1 AP	127	139	Road	
LEC14-1 AP	139	149	Road	
LEC14-1 AP	149	158	Road	
LEC14-1 AP	158	175	Road	
LEC14-1 AP	175	176	Road	
LEC14-1 AP	176	206	Road	
LEC14-1 AP	206	220	Road	
LEC14-1 AP	220	226	Road	
LEC14-1 AP	226	230	Road	
LEC14-1 AP	230	247	Road	
LEC14-1 AP	247	249	Road	
LEC14-1 AP	249	256	Road	
LEC14-1 AP	256	270	Road	
LEC14-1 AP	270	294	Road	
LEC14-1 AP	294	310	Road	
LEC14-1 AP	310	326	Road	
LEC14-1 AP	326	338	Road	
LEC14-1 AP	338	374	Road	
LEC14-1 AP	374	398	Road	
LEC14-1 AP	398	415	Road	
LEC14-1 AP	415	416	Road	
LEC14-1 AP	416	439	Road	
LEC14-1 AP	439	450	Road	
LEC14-1 AP	450	471	Road	
LEC14-1 AP	471	478	Road	
LEC14-1 AP	478	488	Road	
LEC14-1 AP	488	497	Road	
LEC14-1 AP	497	525	Road	
LEC14-1A	0	27	Road	

LEC14-1A	27	40	Road	
LEC14-1A	40	67	Road	
LEC14-1A	67	88	Road	
LEC14-1A	88	98	Road	
LEC14-1A	98	104	Road	
LEC14-1A	102	107	Bridge	0
LEC14-1A	104	111	Road	
LEC14-1A	111	120	Road	
LEC14-1A	120	140	Road	
LEC14-1A	140	158	Road	
LEC14-1A	158	170	Road	
LEC14-1A	170	183	Road	
LEC14-2 AP	0	10	Road	
LEC14-2 AP	10	36	Road	
LEC14-2 AP	36	40	Road	
LEC14-2 AP	40	68	Road	
LEC14-2 AP	68	78	Road	
LEC14-2 AP	78	90	Road	
LEC14-2 AP	90	109	Road	
LEC14-2 AP	100	117	End Haul	100
LEC14-2 AP	109	117	Road	
LEC14-2 AP	117	147	Road	
LEC14-2 AP	147	160	Road	
LEC14-2 AP	160	213	Road	
LEC14-2 AP	213	220	Road	
LEC14-2 AP	220	227	Road	
LEC14-2 AP	227	235	Road	
LEC14-2 AP	235	252	Road	
LEC14-2 AP	252	260	Road	
LEC14-2 AP	260	273	Road	
LEC14-2 AP	273	337	Road	
LEC14-2 AP	337	374	Road	
LEC14-2 AP	374	424	Road	
LEC14-2A AP	0	10	Road	
LEC14-2A AP	10	34	Road	
LEC14-2B AP	0	10	Road	
LEC14-2B AP	10	12	Road	
LEC14-2B AP	12	20	Road	
LEC14-2B AP	20	27	Road	
LEC14-2B AP	27	28	Road	
LEC14-2B AP	28	40	Road	
LEC14-2B AP	40	55	Road	
LEC14-2B AP	55	56	Road	
LEC14-2B AP	56	60	Road	
LEC14-2B AP	60	73	Road	
LEC1B	0	200	End Haul	100
SPUR 10-1	0	643	Re-Surfacing	
SPUR 12-1	0	584	Re-Surfacing	

OPERATING COST INFORMATION

Development Cost - Culverts (Metal)

Circular Type				
Diameter	Total Length For Diameter	Crown %	Amortized %	Appraisal Year
0.4	140	100	100	2014
0.6	280	100	100	2014
0.8	140	100	100	2014
0.5	30	100	100	2014
0.9	30	100	100	2014
1.0	60	100	100	2014

Development Cost - Culverts (Wooden)

Number	Crown %	Amortized %	Appraisal Year	Unit Cost ($/Unit)
1	100	100	2014	1000

OPERATING COST INFORMATION

Appraised Roads

Road Name
15a
BRANCH 40
Branch 43
East Creek
LEC Main
LEC13
LEC14-1 AP
LEC14-1A
LEC14-2 AP
LEC14-2A AP
LEC14-2B AP
LEC1B
SPUR 10-1
SPUR 12-1

OPERATING COST INFORMATION

Development Cost - New Construction Detailed Engineering

Cost Estimate Identifier	Road Length (km)	Crown %	Amortized %	Total Cost ($)	Appraisal Year	Comments
CEF0	10.000	100	100	97371	2014	widening
EH	0.217	100	100	63102	2014	

Total for 2014: 10.217 km $ 160473

Total Cost New Construction: $ 160473

Development Cost - Reconstruction & Replacement Detailed Engineering

Cost Estimate Identifier	Road Length (km)	Crown %	Amortized %	Total Cost ($)	Appraisal Year	Comments
RR	20.278	100	100	286770	2014	

Total for 2014: 20.278 km $ 286770

Total Cost Reconstruction & Replacement: $ 286770

CONTROL

Forest District

TOA Eligible:	❍ Yes ❍ No
Was the Appraisal Data Field Checked:	❍ Yes ● No
Was the CP Check Cruised:	❍ Yes ● No
Appraisal Data Submission Has Been Validated Against FTA:	☑

Data Submission Reviewed By	Email	Date Submitted	Date Received
Connon, Hugh	hugh.connon@gov.bc.ca	2014-09-09	2014-09-09

Forest Region

Adjust Quarterly:	❍ Yes ❍ No
TOA Miscellaneous Cost:	
MPS/CVP Differential:	_____ $/m

Reviewed By	Email	Date Sent To Region	Date Transferred To GAS	ECAS Status
				RCD

Verbrugge, Cheryl FLNR:EX

From: Short, Robert W FLNR:EX
Sent: Friday, October 24, 2014 10:46 AM
To: Feagan, Matthew C FLNR:EX
Cc: Beetham, Amy FLNR:EX; DesRochers, Kathy A FLNR:EX; Royle, Barb J FLNR:EX; Ashford, Andrew FLNR:EX
Subject: Timber Licence T0611 and T0629 extensions
Attachments: T0629, T0611 - Extension Letter_15April2014.pdf; Location map.pdf; Admin decision fact sheet.docx

Hi Matt,

On behalf of district tenures, I have read the attachments plus reviewed our electronic files. We have no concerns.

Thank you for seeking our input.

Rob

BRITISH COLUMBIA

Robert Short RPF
Authorization Forester
North Island - Central Coast Natural Resource District
☎ (250) 956-5036 mailto:Robert.Short@gov.bc.ca

From: Beetham, Amy FLNR:EX
Sent: Thursday, October 23, 2014 3:46 PM
To: Short, Robert W FLNR:EX
Subject: FW: Timber Licence T0611 and T0629

Hi Rob,

Could you please respond to Matt with any district concerns. Josh noted they have begun engineering reccie work in the TL and surrounding area now that access has been re-established.

Thanks,

Amy Beetham, R.P.F.
Tenures Officer
North Island - Central Coast Natural Resource District
Ministry of Forests, Lands and Natural Resource Operations
Phone: (250) 956-5015 Fax: 956-5079
Email: Amy.Beetham@gov.bc.ca

From: Feagan, Matthew C FLNR:EX
Sent: Tuesday, May 20, 2014 2:43 PM
To: DesRochers, Kathy A FLNR:EX; Beetham, Amy FLNR:EX

Cc: Royle, Barb J FLNR:EX
Subject: Timber Licence T0611 and T0629

Hello Kathy and Amy.

Please find attached the consultation request for the proposed extension of Timber Licence T0611 and T0629, submitted by Lions Gate Forest Products on April 15, 2014. Also attached are the location map and extension request/rationale.

Kathy – please initiate consultation as per your District protocol
Amy – please let me know if there are any "show stoppers" regarding these TLs.

Barb – please update the consultation ledger.

Thanks everyone.

***Matt Feagan**, RPF*
Tenures Officer, Coast Area Forest Tenures
Ministry of Forests, Lands, and Natural Resource Operations
Nanaimo (250) 751-3136, fax (250) 751-7190

BRITISH COLUMBIA

File: 19580-45/Timber Licence T0629 CPAA
CP extension

April 1, 2015

Josh Hiebert, RFT
Lions Gate Forest Products Ltd.
Post Office Box 1700
Port McNeill, British Columbia
V0N 2R0

Dear Josh:

Your extension request for Cutting Permit AA of Timber Licence 629 under section 58.1 (2) of the *Forest Act* received April 26, 2018 is approved. Cutting Permit AA now terminates on April 26, 2018 coinciding with the timber licence expiry date. The cutting permit extension fee has been waived as you requested under 58.1 (6) of the *Forest Act*.

This amendment is subject to:

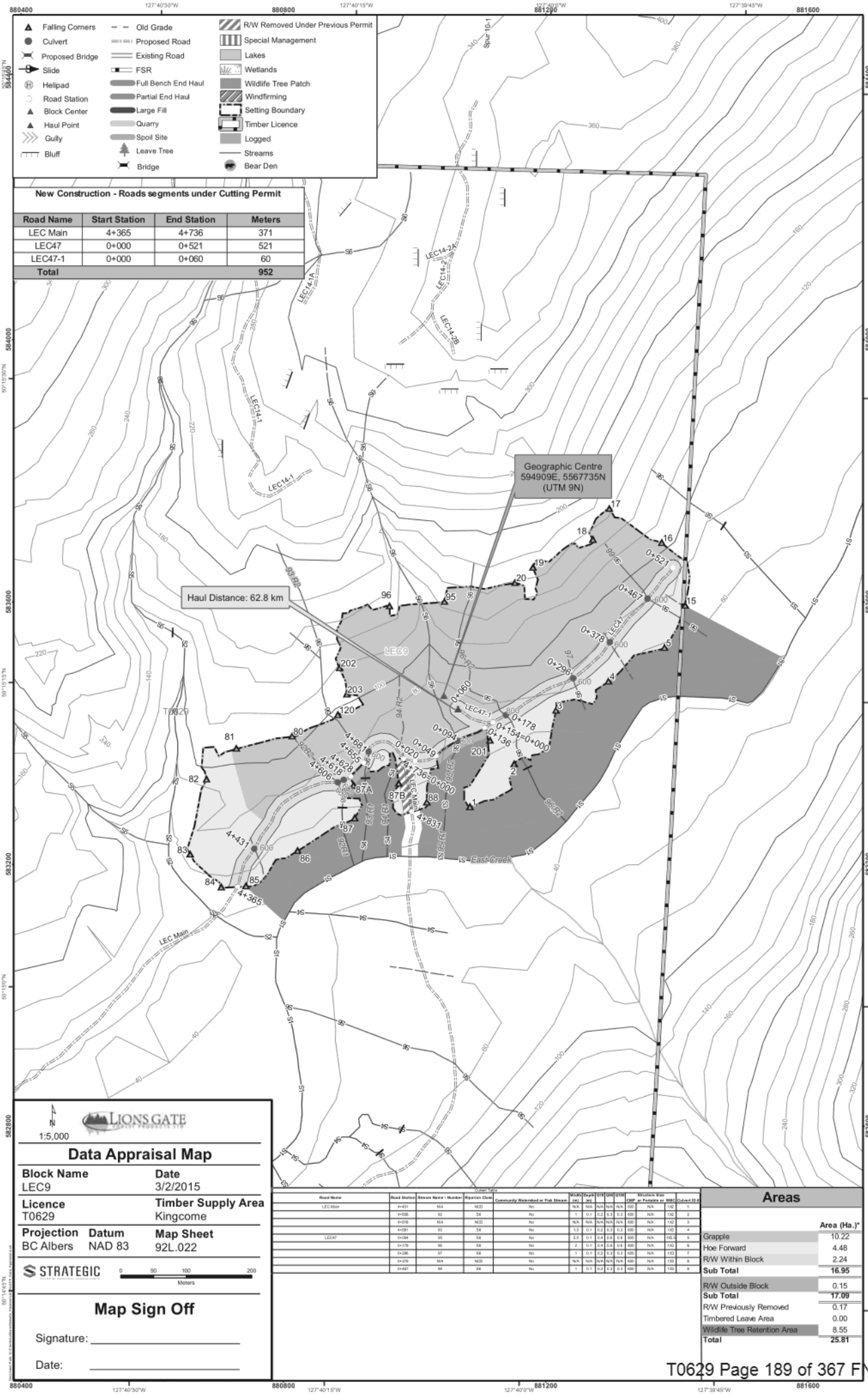
(a) the *Forest Act* and the regulations made under that act;
(b) all the provisions and requirements of the *Forest Practices Code of British Columbia Act* and the regulations made under that act; and
(c) the *Forest and Range Practices Act* and the regulations made under that act.

Yours truly,

2015.04.01 08:32:50 -07'00'

Andrew Ashford, RPF
District Manager

Ministry of Forests, Lands and Natural Resource Operations
North Island-Central Coast Natural Resource District
2217 Mine Road
Port McNeill, BC
P.O. Box 7000
Port McNeill, BC V0N 2R0
Tel: (250) 956-5000
Fax: (250) 956-5079



New Construction - Roads segments under Cutting Permit

Road Name	Start Station	End Station	Meters
LEC Main	4+365	4+736	371
LEC47	0+000	0+521	521
LEC47-1	0+000	0+060	60
Total			**952**

1:5,000

Data Appraisal Map

Block Name LEC9	**Date** 3/2/2015
Licence T0629	**Timber Supply Area** Kingcome
Projection BC Albers	**Datum** NAD 83
	Map Sheet 92L.022

0 50 100 200 Meters

Map Sign Off

Signature: _____

Date: _____

Road Name	Road Station	Stream Name / Number	Riparian Class	Community Watershed or Fish Stream	Width (m)	Depth (m)	Q10	Q50	Q100	Structure Size: CSP or Portable or WBC	Culvert ID #
LEC Main	4+431	N/A	NCD	No	N/A	N/A	N/A	N/A	N/A	600	N/A	TBC	1
	4+606	92	S4	No	1	0.1	0.2	0.3	0.3	600	N/A	TBC	2
	4+618	N/A	NCD	No	N/A	N/A	N/A	N/A	N/A	600	N/A	TBC	3
	4+681	93	S4	No	1.5	0.1	0.2	0.3	0.3	600	N/A	TBC	4
LEC47	0+094	95	S4	No	2.2	0.1	0.4	0.6	0.6	600	N/A	TBC	5
	0+178	96	S4	No	2	0.1	0.4	0.6	0.6	600	N/A	TBC	6
	0+296	97	S4	No	1	0.1	0.2	0.3	0.3	600	N/A	TBC	7
	0+378	N/A	NCD	No	N/A	N/A	N/A	N/A	N/A	600	N/A	TBC	8
	0+467	98	S4	No	1	0.1	0.2	0.3	0.3	600	N/A	TBC	9

Areas

	Area (Ha.)*
Grapple	10.22
Hoe Forward	4.48
R/W Within Block	2.24
Sub Total	**16.95**
R/W Outside Block	0.15
Sub Total	**17.09**
R/W Previously Removed	0.17
Timbered Leave Area	0.00
Wildlife Tree Retention Area	8.55
Total	**25.81**

Verbrugge, Cheryl FLNR:EX

From: Connon, Hugh J FLNR:EX
Sent: Tuesday, June 2, 2015 2:43 PM
To: Connon, Hugh J FLNR:EX
Subject: T0629 CP AC ECAS No. 67386 - Engineering Review

Hiebert contacted Birrell by telephone and the situation was further explained to him.

Hugh Connon, RFT
Resource Technician
Ministry of Forests, Lands & Natural Resource Operations
Government of British Columbia
Phone: (250) 956-5117
Email: Hugh.Connon@gems4.gov.bc.ca

From: Birrell, Steve A FLNR:EX
Sent: Tuesday, June 2, 2015 1:50 PM
To: Josh Hiebert
Cc: Elliott, Terry C FLNR:EX; Connon, Hugh J FLNR:EX
Subject: ECAS 67386 T0629 CP AC Engineering Review

Clarification required regarding the EH: S1200 from 220 to 243 and 291 to 311. The EH volumes being claimed do not match the Roadeng volumes. EH from 378 to 421 requires a haul distance.

Steve

Verbrugge, Cheryl FLNR:EX

From: Josh Hiebert <jhiebert@lemare.ca>
Sent: Tuesday, March 3, 2015 8:23 AM
To: FTA DIC P FLNR:EX
Cc: Birrell, Steve A FLNR:EX
Subject: T0629 CP AB Application
Attachments: Notes from LGFP Info Sharing Mtg - 14 May 14.pdf; T0629_CP AB_27February2015.pdf

I have attached the cover letter for T0629 CP 'AB' Application that I have made on behalf of Lions Gate Forest Products Ltd. All data is entered in ECAS (ID:66263) and the ESF #1399145 was submitted also.
LGFP has notified the Quatsino and had a full information sharing session with Ralph Wallas, his team and Kathy DesRochers on May 14, 2014 regarding our plans for this area. During our information sharing it was determined that no Archaeological assessment would be required for the blocks and we would follow 'Standard Operating Procedures', and the Quatsino had no further concerns with our plans. During the engineering and field work there were no heritage features or archaeological important features identified within our proposed cut blocks or along our roads.

Please let me know if you have any questions and I look forward to hearing from you soon.

Joshua Hiebert, RFT, ATC
Planning Manager

LIONS GATE
FOREST PRODUCTS LTD

3341 Mine Road – PO Box 1700
Port McNeill, B.C., Canada V0N 2R0
Cell: (250) 902-8991
Telephone: (250) 956-3123
Fax: (250) 956-4888
Email: jhiebert@lemare.ca

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BRITISH COLUMBIA

Ministry of
Forests, Lands and
Natural Resource Operations

Amortization Agreement - Coast

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 authorities identified below in accordance with the *Coast 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: Lions Gate Forest Products Ltd			
Licensee Address: 3341 Mine Road , PO Box1700, Port McNeill, BC V0N 2R0			
Licence: T0629	**CP:** AB	**Mark:** TATVAB	**ECAS ID:** 66263

Development Project(s): *(attach map showing locations(s))*

TOTAL COST ESTIMATE FOR APPORTIONMENT ($):	2239557.50
Cutting Permit	**Amount Apportioned ($)**
AB	1701121.03
AC	288436
AD	250000.47
Total Amount Apportioned ($):	2239557.5

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

Licensee Representative Name & Title (printed)	Joshua Hiebert, RFT, ATC Planning Manager
Licensee Representative Signature	
Date Signed (yyyy/mm/dd)	2015 / 05 / 06
Approved by Regional Executive Director (or designate)	Digitally signed by bill.luscombe@gov.bc.ca DN: cn=bill.luscombe@gov.bc.ca Date: 2015.05.06 16:02:25 -07'00'
Name (print)	
Date Signed (yyyy/mm/dd)	

FS 1423 HVA 2014/08

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

Verbrugge, Cheryl FLNR:EX

From: Birrell, Steve A FLNR:EX
Sent: Tuesday, March 10, 2015 8:42 AM
To: Josh Hiebert
Cc: Elliott, Terry C FLNR:EX; Connon, Hugh J FLNR:EX
Subject: RE: CEF2 Updated / T0629 CP AB

Hi Josh, this CEF and the spread sheet that supports it need to be adjusted because the Dump Truck and Rock Drills' operating times rates are mixed up. Also the EH on Harris Main from 179 to 264 is missing the x-sections and their volumes from station 0+238 to 0+264.
This submission will be returned to you for clarification after its' full review.

From: Josh Hiebert [mailto:jhiebert@lemare.ca]
Sent: Monday, March 9, 2015 4:11 PM
To: Birrell, Steve A FLNR:EX
Subject: CEF2 Updated

Joshua Hiebert, RFT, ATC
Planning Manager
LEMARE

3341 Mine Road – PO Box 609
Port McNeill, B.C., Canada V0N 2R0
Telephone: (250) 956-3123
Cell: (250) 902-8991
Fax: (250) 956-4888
Email: jhiebert@lemare.ca

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BRITISH COLUMBIA

File: 19580-25/T0596
19580-25/T0611
19580-25/T0629
CLIFF 213247

MAR 13 2015

Josh Hiebert
Lions Gate Forest Products Ltd.
P.O. Box 1700
Port McNeill, British Columbia
V0N 2R0

Dear Josh Hiebert:

On April 15, 2014, Lions Gate Forest Products Ltd. (LGFP) submitted an application requesting an extension to the terms of Timber Licences T0596, T0611 and T0629. I have reviewed all of the information provided by LGFP, district staff and the consultation responses from the First Nations with traditional territory overlapping the licence areas.

Based on all of this information and in accordance with Section 31 of the *Forest Act,* the application for extension is approved and Timber Licences T0596, T0611 and T0629 have been extended to April 26, 2018. The executed amendments to T0596, T0611 and T0629 are attached for your records.

Please note that should you apply for an extension of these timber licences in the future, the decision to approve them will include an evaluation of whether or not the harvest plans submitted with the current extension request were achieved.

If you have any questions or would like further information about this extension, please contact Matt Feagan, Tenures Officer, Coast Area at (250) 751-3136.

Ministry of Forests, Lands and Natural Resource Operations
West Coast Natural Resource Region
Location:
2100 Labieux Road
Nanaimo, BC
V9T 6E9
CANADA
Mailing Address:
#103 - 2100 Labieux Road
Nanaimo, BC V9T 6E9
Tel: (250) 751-7001
Fax: (250) 751-7190

Josh Hiebert

I would like to wish you success in your operations.

Yours truly,

Sharon Hadway

Sharon Hadway
Regional Executive Director
West Coast Natural Resource Region

Attachments (3): Amendment No. 1 to Timber Licence T0596
Amendment No. 2 to Timber Licence T0611
Amendment No. 3 to Timber Licence T0629

pc: Matt Feagan, Tenures Officer, Coast Area

BRITISH COLUMBIA

Amendment to Timber Licence T0629. Amendment no. 3

Memorandum of amendment to Timber Licence T0629, executed on the later date written below, between the Regional Executive Director of the West Coast Region and the Licensee of the said Licence.

Whereas it is mutually agreed to amend the terms and conditions of the said Licence and the parties hereto have agreed to amend the same as set forth in this memorandum.

NOW, THEREFORE, in consideration of the premises and other valuable considerations now exchanged between the parties hereto, said parties agree as follows:

- Paragraph 1.03 is hereby revised to 37 years, beginning April 27, 1981

This forms an integral part of the original Licence and should be attached thereto.

Subject to the foregoing, the parties hereto confirm the said Licence.

IN WITNESS WHEREOF the said parties have hereunto set their hands and seals and/or the Licensee has caused its corporate seal to be affixed in the presence of the duly authorized officers in that behalf on the date and year below.

SIGNED by the Licensor
in the presence of

Karen Rogers
(Witness Signature)

STEVEN ROGERS
(Witness Name Printed)

Sharon Hadway
Sharon Hadway, Regional Executive Director
West Coast Region

Date of Signature: March 13, 2015

THE COMMON SEAL of the Licensee
was affixed in the presence of, OR
Signed by the Licensee in the presence of

JBeddows
(Witness Signature)

THERESA BEDDOWS
(Witness Name Printed)

REGISTERED FOREST TECHNOLOGIST PROVINCE OF BRITISH COLUMBIA JOSHUA M. HIEBERT NO. 1955

(Licensee Signature)

JOSH HIEBERT
(Licensee Name Printed)

Date of Signature: JAN. 21/15

CUTTING AUTHORITY DETAIL

Weighted Haul Distance: 9.6

Weighted Crew Transportation Distance: 25.0

Point of Appraisal: ALBE - Alberni

Cutblock #	Harvest Method	Volume (m3)	Point of Origin		Appraisal Log Dump	Other Log Dump	Truck Haul Distance (km)	Crew Transportation		Accessible / Isolated	Road Management	Major Centre	
			1	2				Distance (km)	Marshall Point			Major Centre	Distance (km)
LEC17	GS	3578	Cleagh Creek		OTH	KLASKISH	9.6	25.0	EAST CREEK CAMP	A	Yes	Campbell River	176
LEC17	CY	6006	Cleagh Creek		OTH	KLASKISH	9.6	25.0	EAST CREEK CAMP	A	Yes	Campbell River	176

OPERATING COST INFORMATION

Development Cost - Bridges

Type	Road Name	Stn #		Bridge Type	Crib Height (m)	Span Length (m)	Crown %	Amortized %	Appraisal Year	Bridge Built?
		Start	End							
N	HARRIS MAIN	548	573	P - Permanent / Portable	2	25	100	100	2015	☐
N	HARRIS MAIN	762	774	L - Log	2	12	100	100	2015	☐
N	HARRIS MAIN	1187	1191	L - Log	1	4	100	100	2015	☐
N	HARRIS MAIN	1735	1740	L - Log	1	5	100	100	2015	☐
N	HARRIS MAIN	2197	2207	L - Log	2	10	100	100	2015	☐

OPERATING COST INFORMATION

Development Cost - Tabular Roads

Identity				Subgrade						
	Station #									
Road Name	Start	End	Section Length (km)	Bank Height Category	RMC	Appraisal Year	Crown %	Amortized %	Section Built?	
HA1350	0	546	0.546	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
HA2111	0	67	0.067	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
HA650	0	640	0.640	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
HA651	1	178	0.177	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
HARRIS MAIN	501	548	0.047	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
HARRIS MAIN	573	768	0.195	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
HARRIS MAIN	780	1187	0.407	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
HARRIS MAIN	1191	1735	0.544	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
HARRIS MAIN	1740	2203	0.463	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
HARRIS MAIN	2223	2291	0.068	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	

Total for 2015 : 3.154 km

Tabular Road Total: 3.154 km

OPERATING COST INFORMATION

Development Cost - Road Reconstruction

Case	Road Name	Start	End	Section Length	Subgrade					Surfacing						Total Cost for Section	Appraisal Year	Crown %	Amortization %	Section Built
					Rem. Road Width	Construction Category	Uphill Side Slope %	Material Type	Cost per km	Required	Depth	Haul Distance	Pit Location	Material Type	Cost per km					
										☐										☐

Total for : _____

OPERATING COST INFORMATION

Development Cost - End Haul

						Subgrade							Surfacing										
Type	Case	Road Name	Start	End	Section Length (km)	Construction Category	Uphill Side Slope %	Material Type	Spoil Location	Haul Distance (km)	Total End Haul Volume (m3)	Total Cost End Haul ($/km)	Surfacing	Material Type	Pit Location	Haul Distance (km)	Total Cost / km ($/km)	Partial %	Crown %	Amortized %	Total Cost for Section	Appraisal Year	Section Built
													☐										☐

Total for : _____ _____ _____

Total: _____ _____ _____

SELLING PRICE INFORMATION

Grade %

Species	Peeler		Lumber				Sawlog			Shingle			Util.		Chip	Total Net Cruise Volume by Species	Grade Source Level
	B	C	D	E	F	G	H	I	J	K	L	M	U	X	Y		
Cedar																7141	
Cypress																1493	
Hemlock																950	

Selling Price Zone:

TOTAL NET CRUISE VOLUME: 9584

Second growth: ☐

Single Tree Selection Cruise Volume: ☐

TSA:

TSB:

Applicable Volume (m^3)	Appraisal Year	Area Unlogged (ha)
	2015	15.4

ATTACHMENTS

If submitting attachments as a single zip file, submit below.
Please check off below what attachments are contained in the zip file.

Attach File:

- ☐ Appraisal Map
- ☐ Approved Request for a Approval of a Road Use Charge

Specified Operations:

- ☐ A-frame Logging
- ☐ Blowdown Timber
- ☐ Single Tree Selection
- ☐ Group Selection
- ☐ Skyline Logging
- ☐ Lake Transportation
- ☐ Skidder Swing
- ☐ Towing to Tie-up Grounds
- ☐ Camp Move
- ☐ Destumping
- ☐ Tree Crown Modification
- ☐ Culvert Worksheet

Detailed Engineering

- ☐ Bridge Repairs
- ☐ Construction Estimate Form #1
- ☐ Construction Estimate Form #2
- ☐ Construction Estimate Form #3
- ☐ Construction Estimate Form #4
- ☐ Construction Estimate Form #5
- ☐ Greater than 5 Construction Estimate Forms

Cruise

- ☐ Cruise Compilation (.txt or .dat in ascii format for original & reduction data)
- ☐ Cruise Analysis Form (District Staff Only)
- ☐ Tenure Info. (District Staff Only)
- ☐ BC Timber Sales (FS 574) (BSTC Staff Only)
- ☐ Extended Road Amortization
- ☐ Miscellaneous

If attaching individually, submit below.

	Electronic (Attached)	Paper Copy To Follow	NA	Attachment
Appraisal Map	●	❍	❍	LEC17 Appraisal Map.pdf
Approved Request for a Approval of a Road Use Charge	❍	❍	●	
Specified Operation				
A-frame Logging	❍	❍	●	
Blowdown Timber	❍	❍	●	
Single-Tree Selection	❍	❍	●	
Group Selection	❍	❍	●	
Skyline Logging	❍	❍	●	
Lake Transportation	❍	❍	●	
Skidder Swing	❍	❍	●	
Towing To Tie-up Grounds	❍	❍	●	
Camp Move	❍	❍	●	
Destumping	❍	❍	●	
Tree Crown Modification	●	❍	❍	Copy of TreeCrownMod_06May2015.xls
Culvert Worksheet	●	❍	❍	T0629_CP AD_Culvert Worksheet_LEC17_29July2015.xlsx
Detailed Engineering				
Bridge Repairs	❍	❍	●	
Construction Estimate Form #1	❍	❍	●	
Construction Estimate Form #2	❍	❍	●	
Construction Estimate Form #3	❍	❍	●	
Construction Estimate Form #4	❍	❍	●	
Construction Estimate Form #5	❍	❍	●	
If there are more than 5 CEF's please attach the remainder as a ZIP file	❍	❍	●	
Engineering info to Support Detailed Engineering	❍	❍	●	
Extended Road Amortization	❍	❍	●	
Cruise				
Cruise Compilation (.txt or .dat in ascii format for original & reduction data)	❍	❍	●	
Cruise Analysis Form (District Staff Only)	❍	❍	●	
Tenure Info. (District Staff Only)	❍	❍	●	
BC Timber Sales (FS 574) (BCTS Staff Only)	❍	❍	●	
Miscellaneous				
LEC17 Final Cruise Map	●	❍	❍	LEC17 Final Cruise Map.pdf
LE17 Cruise Area Rationale	●	❍	❍	T0629_LEC17_Cruise Area Change Rationale.pdf
	❍	❍	●	

Verbrugge, Cheryl FLNR:EX

From: Josh Hiebert <jhiebert@lemare.ca>
Sent: Monday, March 16, 2015 11:49 AM
To: Connon, Hugh J FLNR:EX
Cc: Elliott, Terry C FLNR:EX; Birrell, Steve A FLNR:EX
Subject: RE: ECAS 66263

Thanks Hugh.

From: Connon, Hugh J FLNR:EX [mailto:Hugh.Connon@gov.bc.ca]
Sent: March 16, 2015 11:43 AM
To: Josh Hiebert
Cc: Elliott, Terry C FLNR:EX; Birrell, Steve A FLNR:EX
Subject: RE: ECAS 66263

We will returning it to you when our full examination is completed. I found an error in the Tabular Roads. The Cruise Data still needs to be examined and I understand that Steve Birrell will be requesting some data in regard to the Detailed Engineering.

Hugh Connon, RFT
Resource Technician
Ministry of Forests, Lands & Natural Resource Operations
Government of British Columbia
Phone: (250) 956-5117
Email: Hugh.Connon@gems4.gov.bc.ca

From: Josh Hiebert [mailto:jhiebert@lemare.ca]
Sent: Monday, March 16, 2015 11:08 AM
To: Connon, Hugh J FLNR:EX; Elliott, Terry C FLNR:EX
Cc: Birrell, Steve A FLNR:EX
Subject: ECAS 66263

Good Morning Hugh and Terry
Can I get an update on the review of T0629 CP 'AB' please
Thanks

Joshua Hiebert, RFT, ATC
Planning Manager
LEMARE

3341 Mine Road – PO Box 609
Port McNeill, B.C., Canada V0N 2R0
Telephone: (250) 956-3123
Cell: (250) 902-8991
Fax: (250) 956-4888
Email: jhiebert@lemare.ca

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Verbrugge, Cheryl FLNR:EX

From: Elliott, Terry C FLNR:EX
Sent: Thursday, April 16, 2015 3:01 PM
To: Josh Hiebert
Cc: Birrell, Steve A FLNR:EX; McNish, Janel FLNR:EX; Elliott, Terry C FLNR:EX
Subject: RE: TL 629, CP AB, Clarify Details

Please review the following regarding the first clarify detail:

5.3.1.1 New Road Construction

1. New Road Construction includes only subgrade construction, placement of additional stabilizing material, bridges, the construction and installation of drainage structures, and other necessary types of structures pertaining to the road that the regional manager authorizes to be used in the appraisal or reappraisal of a cutting authority area.

2. New road construction costs may only be used in the appraisal or reappraisal of the first tributary cutting authority except cutting authorities where all of the timber on the cutting authority area has stumpage rates determined under chapter 7.

So that would mean that your LECMAIN main would have to be fully included up to the end of the last block LEC11 in the CP AB submission.

Terry Elliott RFT
Revenue Technician
North Island Central Coast Forest District
Ministry of Forests, Lands and Natural Resource Operations
P.O.Box 7000, Port McNeill, B.C. V0N 2R0
Ph.(250) 956-5031 Fax. (250) 956-5079
email: terry.elliott@gov.bc.ca

From: Josh Hiebert [mailto:jhiebert@lemare.ca]
Sent: Thursday, April 16, 2015 1:57 PM
To: Elliott, Terry C FLNR:EX
Cc: Birrell, Steve A FLNR:EX; McNish, Janel FLNR:EX
Subject: RE: TL 629, CP AB, Clarify Details

See below

From: Elliott, Terry C FLNR:EX [mailto:Terry.Elliott@gov.bc.ca]
Sent: April-16-15 1:26 PM
To: Josh Hiebert
Cc: Elliott, Terry C FLNR:EX; Birrell, Steve A FLNR:EX; McNish, Janel FLNR:EX
Subject: TL 629, CP AB, Clarify Details

Good morning Josh. Please examine the following details and respond before I clarify:

LECMAIN, Tabular, sta. 1+974 to sta. 4+365 – Can you explain the Gap in this location?
This section of road will be submitted with LEC6,7,8
LECMAIN, Tabular, sta. 4+736 to sta. 4+740 – There appears to be a gap in this location.
Will fix gap

LEC64 – There appears to be a an overlap of the End haul segment (sta. 0+160 to sta. 0+322) and bridges located at sta. 0+170 to sta.0+174 and sta. 0+256 to sta. 0+262.

Will remove end haul ion those areas
LEC64, sta. 0+336 to sta. 0+337 – There appears to be a 1 meter gap in this location.
Will fix
LEC64, sta. 0+375 to sta. 0+378 – There appears to be a 3 meter gap in this location.
Will fix

Examine your Culvert Worksheet "Input Info for ECAS" spreadsheet.

I will make a new culvert worksheet and get rid of glitch
Your LEC11 Appraisal Map is not attached in ECAS as indicated. (LEC2)
Will attach

Terry Elliott RFT
Revenue Technician
North Island Central Coast Forest District
Ministry of Forests, Lands and Natural Resource Operations
P.O.Box 7000, Port McNeill, B.C. V0N 2R0
Ph.(250) 956-5031 Fax. (250) 956-5079
email: terry.elliott@gov.bc.ca

Verbrugge, Cheryl FLNR:EX

From: Josh Hiebert <jhiebert@lemare.ca>
Sent: Thursday, April 16, 2015 11:35 AM
To: Birrell, Steve A FLNR:EX
Cc: Elliott, Terry C FLNR:EX; McNish, Janel FLNR:EX
Subject: RE: ECAS 66263 CP AB Engineering Review

When will I see the clarify?
Thanks

From: Birrell, Steve A FLNR:EX [mailto:Steve.Birrell@gov.bc.ca]
Sent: April-15-15 2:44 PM
To: Josh Hiebert
Cc: Elliott, Terry C FLNR:EX; McNish, Janel FLNR:EX
Subject: ECAS 66263 CP AB Engineering Review

Hi Josh, issues for clarification:

1) The TSA for the EH only covers the LEC MAIN from 2+073 to its end.
2) The ECAS40 Detailed Eng. Screen has the CEF 2 claim as $ 407,309. The actual form has it at $ 383,707.
3) The above CEF is not claiming for a Labourer or Explosives.

Steve

TIMBER LICENCE T0629

CUTTING PERMIT AD

Ministry of Forests, Lands and Natural Resource Operations

PURSUANT TO Timber Licence T0629 (the "Licence") this Cutting Permit is issued to:

LIONS GATE FOREST PRODUCTS LTD.
POST OFFICE BOX 1700
PORT MCNEILL, BRITISH COLUMBIA
V0N 2R0
(the "Licensee")

1.00 PERMIT AREA AND TERM

1.01 Subject to the Licence and the forestry legislation, the Licensee is authorized to cut and remove timber from the areas of land within the harvest areas, **Cutblocks LEC7, LEC8 and LEC10,** as delineated and shown on the attached Exhibit A maps.

1.02 Subject to Paragraph 1.03, and the term of the Licence, the term of this Cutting Permit begins on **September 17, 2015** and expires **April 26, 2018**.

1.03 Provided the Licence does not prohibit extensions, the District Manager may extend the term of this Cutting Permit in accordance with section 58.1 of the *Forest Act*.

1.04 Notwithstanding Paragraph 1.03, the term of this Cutting Permit will not exceed 4 years.

1.05 The Licensee must make application for an extension of this Cutting Permit to the District Manager at least 60 days before the expiry of the Cutting Permit and in a form acceptable to the District Manager.

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 TIMBER HARVESTING AND WASTE ASSESSMENT

3.01 The Licensee must not fell standing timber, or must not buck or remove felled or dead and down timber, as the case may be, if:

(a) the timber is specified as reserved timber in Paragraph 3.02 of this Cutting Permit; or

(b) under an applicable operational plan or the forestry legislation, the Licensee must not fell, buck or remove the timber, for silviculture, biodiversity or other forest management reasons.

3.02 The following timber is specified as reserved timber:

See Schedule B.

3.03 Subject to Paragraph 3.01, all timber that meets or exceeds the merchantability specifications set out in the Waste Assessment Manual and that is not removed by the Licensee may be identified in an assessment described in Paragraph 3.04 of this Cutting Permit and the volume of that timber, whether standing or felled, that could have been removed under the Licence, but which is not removed may be dealt with as if it had been removed for the purposes of calculating stumpage.

3.04 For the purpose of conducting the assessment of the volume of timber that was not removed, but which could have been removed as described in Paragraph 3.03 and for the purpose of determining the volume of timber that is waste for the purposes of Paragraph 3.05:

(a) the Licensee must conduct an assessment in accordance with the current Waste Assessment Manual after the Licensee has declared that primary logging (felling timber and yarding or forwarding the timber to central landings or road sides, but does not include removing the timber) has been completed for the Cutting Permit; or

(b) the District Manager may conduct an assessment in accordance with the current Waste Assessment Manual after the expiry of the term of the Cutting Permit or Licence or the Licence and/or Cutting Permit otherwise being terminated, whichever occurs first.

3.05 The District Manager, in a notice given to the Licensee, may require the Licensee to pay in respect of the volume of timber determined under Paragraph 3.04, a monetary waste assessment for all timber, whether standing or felled, that could have been removed under the Licence, but is not removed, and that meets or exceeds the merchantability specifications as set out in the current Waste Assessment Manual.

4.00 TIMBER MARK

4.01 The timber mark(s) for this Cutting Permit is/are:

TATVAD

4.02 The Licensee shall erect signs at all exits from the harvest area, clearly showing the timber mark(s) referred to in Paragraph 4.01.

5.00 SCALE BASED STUMPAGE

5.01 For the purpose of determining the amount of stumpage payable in respect of timber removed from the harvest area, the volume or quantity of timber removed will be determined using information provided in a scale of the timber.

5.02 The Licensee must ensure that:

(a) all timber removed from the harvest area 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.

5.03 Immediately upon receipt of a notice, statement or invoice issued on behalf of the Crown, the Licensee must pay stumpage under Part 7 of the *Forest Act* at rates determined, redetermined and varied under section 105 of that Act for all timber removed from the harvest area or not removed and identified under part 3.00 of this Cutting Permit.

6.00 LEGISLATIVE FRAMEWORK

6.01 This Cutting Permit is subject to:

(a) the *Forest Act;*

(b) the *Forest Practices Code of British Columbia Act;*

(c) the *Forest and Range Practices Act*; and

(d) the regulations and standards made under those Acts.

6.02 The Licensee must:

(a) comply with the forestry legislation; and

(b) ensure that its employees, agents and contractors comply with the forestry legislation when engaging in or carrying out activities or operations under or associated with this Cutting Permit.

6.03 Nothing in this Cutting Permit is to be construed as authorizing the Licensee to cut or remove timber or engage in or carry out any other forest practices until all applicable operational plans for both the harvest area and any corresponding roads have been prepared or approved by the District Manager.

6.04 Nothing in this Cutting Permit is to be construed as authorizing the Licensee to carry out any operations or engage in any activities otherwise than in accordance with the requirements of the forestry legislation.

7.00 ROADS

7.01 The Licensee must ensure that all roads constructed or modified by or on behalf of the Licensee on the harvest area are:

(a) identified on a forest development plan or a forest stewardship plan and authorized under a road permit; or

(b) authorized under Paragraph 7.02.

7.02 Subject to the Licence and forestry legislation, the Licensee may construct or modify roads under the authority of this Cutting Permit on the harvest area if the roads are:

(a) identified on a logging plan;

(b) wholly contained within a cut block identified on a forest development plan; and

(c) not identified on a forest development plan or a forest stewardship plan as providing access to more than one cut block.

7.03 Subject to Paragraph 7.04, a road referred to in Paragraph 7.02 may be used for non-industrial purposes by any person without charge.

7.04 The Licensee may close or restrict use of a road referred to in Paragraph 7.02, if:

(a) in the opinion of the District Manager, activities or operations under or associated with this Cutting Permit represent a danger to life or property;

(b) the District Manager consents to the closure or restriction; and

(c) the Licensee complies with any directions of the District Manager with respect to the closure or restriction, including directions regarding the location and marking of gates and the posting of warning notices.

8.00 MISCELLANEOUS

8.01 The Schedules and Exhibit "A" map(s) attached to this Cutting Permit are deemed to be part of this Cutting Permit.

8.02 This Cutting Permit is deemed to be part of the Licence.

8.03 The Licence will govern the interpretation of this Cutting Permit.

8.04 The Licensee must notify the District Manager in writing in a form acceptable to the District Manager, when all harvest related obligations are complete.

9.00 INTERPRETATION

9.01 In this Cutting Permit:

"forestry legislation" means the legislation outlined in Paragraph 6.01 of this Cutting Permit;

"harvest area" means the area or areas allocated for the activities conducted by the Licensee pursuant to the Licence and this Cutting Permit and which for greater detail are outlined on the attached Exhibit "A" map(s);

"remove" means the removal of timber from the harvest area and "removed" and "removing" have the corresponding meanings;

"total merchantable area" means the total merchantable area as indicated in the appraisal for this cutting permit.

"waste" means timber, whether standing or felled, that could have been removed under the Cutting Permit but was not removed, and which meets or exceeds the specifications of timber merchantability as stated in the Waste Assessment Manual, and as determined in accordance with the Waste Assessment Manual; and

"Waste Assessment Manual" means the "Provincial Logging Residue and Waste Measurement Procedures Manual".

_____

Andrew Ashford, RPF, District Manager
North Island – Central Coast Forest District

SCHEDULE A

SPECIAL CONDITIONS AND REQUIREMENTS

1.00 ORDERLY CONDITIONS

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

2.00 HAZARD TREES

2.01 The Licensee may cut and remove hazard trees from within fifty (50) metres of the boundaries of the cutblocks' total merchantable area.

2.02 The Licensee may fell trees outside of the cutblocks' boundaries but within the area described in Paragraph 2.01 if the person conducting tree felling or rigging tail hold/anchor trees determines that the tree represents a safety hazard according to the Worker's Compensation Board standards.

2.03 Trees felled under Paragraph 2.01 and Paragraph 2.02 shall be bucked and utilized according to the specifications included in the Licence and/or Cutting Permit.

3.00 TREE CROWN MODIFICATION

3.01 The Licensee may cut, damage or modify the crowns of the trees located outside the boundaries of the total merchantable area of the cutblocks identified on the attached Exhibit "A" maps and the locations of those specified trees are indicated coloured in pink and identified as "Windfirm" in the legend on the appraisal maps attached to the appraisal for this cutting permit. The purpose of the modification of the crowns of the aforementioned trees is to reduce the risk of damage by wind and hence windfallen timber at the cutblocks' boundaries and beyond.

4.00 OTHER RIGHTS

4.01 The Licensee's rights under this Permit are subject to any other rights of use and occupation over the Permit Area and the Clearing Area which the Crown has granted to third parties and the Licensee covenants not to obstruct or impede a third party in their authorized use or occupation of these areas.

4.02 Except where a mineral reserve established under section 22 (2) of the *Mineral Tenure Act* allows otherwise, the Licensee covenants and agrees not to obstruct or impede the use of tenures which have been, or which may be, issued to third parties under the *Mineral Tenure Act*.

4.03 In consideration of the foregoing, the Licensee agrees to indemnify and save harmless the Crown from and against all claims for loss or damage, whether caused by the Licensee's acts or omissions, including losses or damages arising out of the Licensee's interference or obstruction of a third party's authorized use, or occupation of the Permit Area or Clearing Area.

SCHEDULE B

RESERVED TIMBER

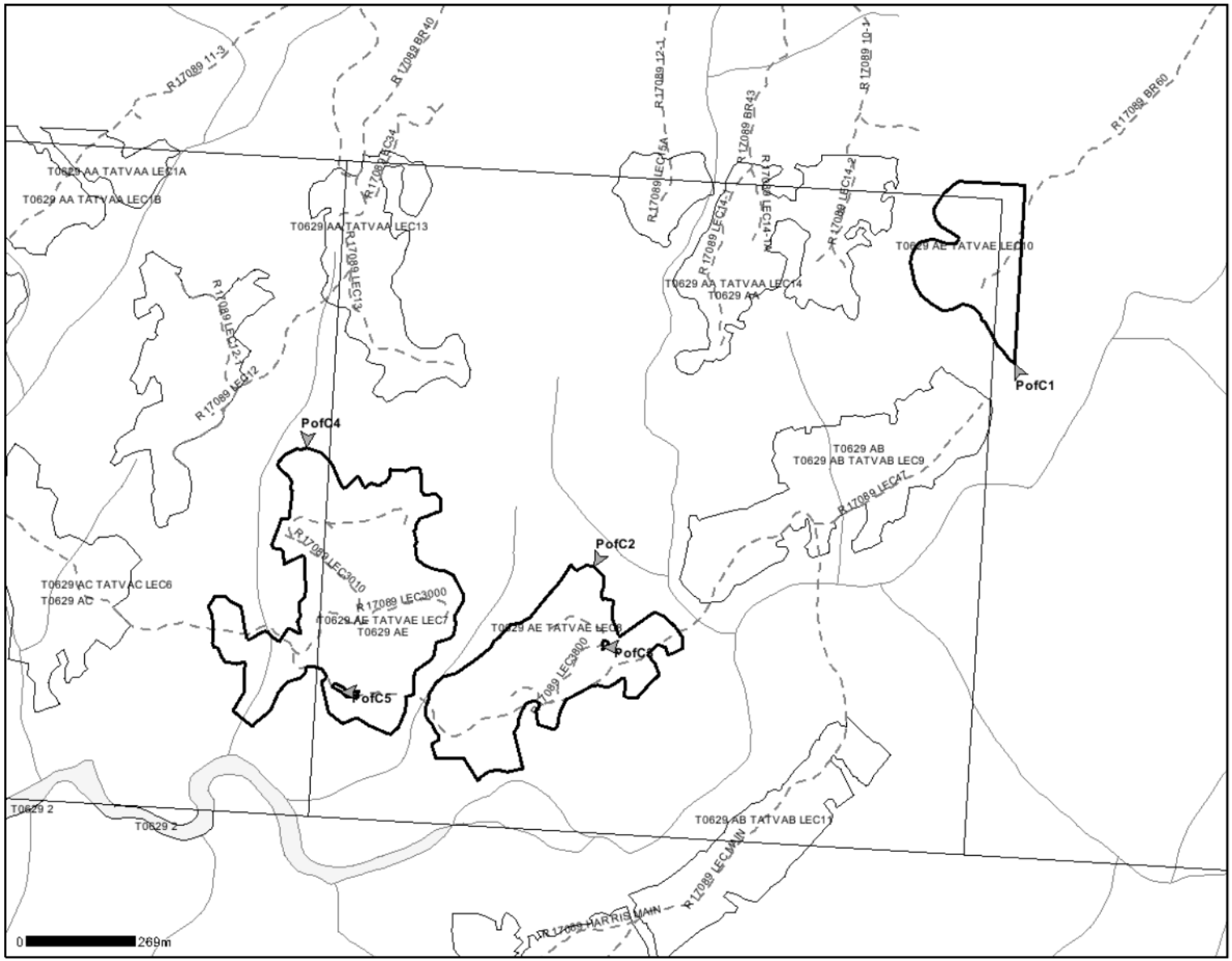
The following is specified as reserved timber under this cutting permit:

The areas cross-hatched in teal green identified as TLA(Timbered Leave Area) in the legend and the areas coloured in light green and the areas coloured in light green with dark green specks identified as WTRA(Wildlife Tree Retention Area) in the legend indicated on the appraisal maps attached to the appraisal for this cutting permit.

BRITISH COLUMBIA

EXHIBIT A

MAP OF : T0629 CP AD (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RUPERT DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : Outside Managed Units MGT UNIT NO :
ESF SUBMISSION ID : 1439791 BCGS MAPSHEET NO : 92L.022	SCALE : 1:15000 at A Size Area (Ha): 45.293	UTM : 9 NAD : NAD 83	DRAWN BY : FTA DATE : Jul 24, 2015



Legend

- Tenure Application
- Tenure Road Application
- Retired Tenure Road
- P of C
- P of T
- Tenure Feature
- Range
- TFL
- Provincial Forest
- Forest Service Road
- Highway
- Municipal Road
- Non Status Road
- Recreation Trails
- Road Permit
- SUP Road
- Right of Way
- Schedule B CP Road
- Mineral Tenure Points
- Cities
- Waterbodies
- River/Stream
- Coastline / Island

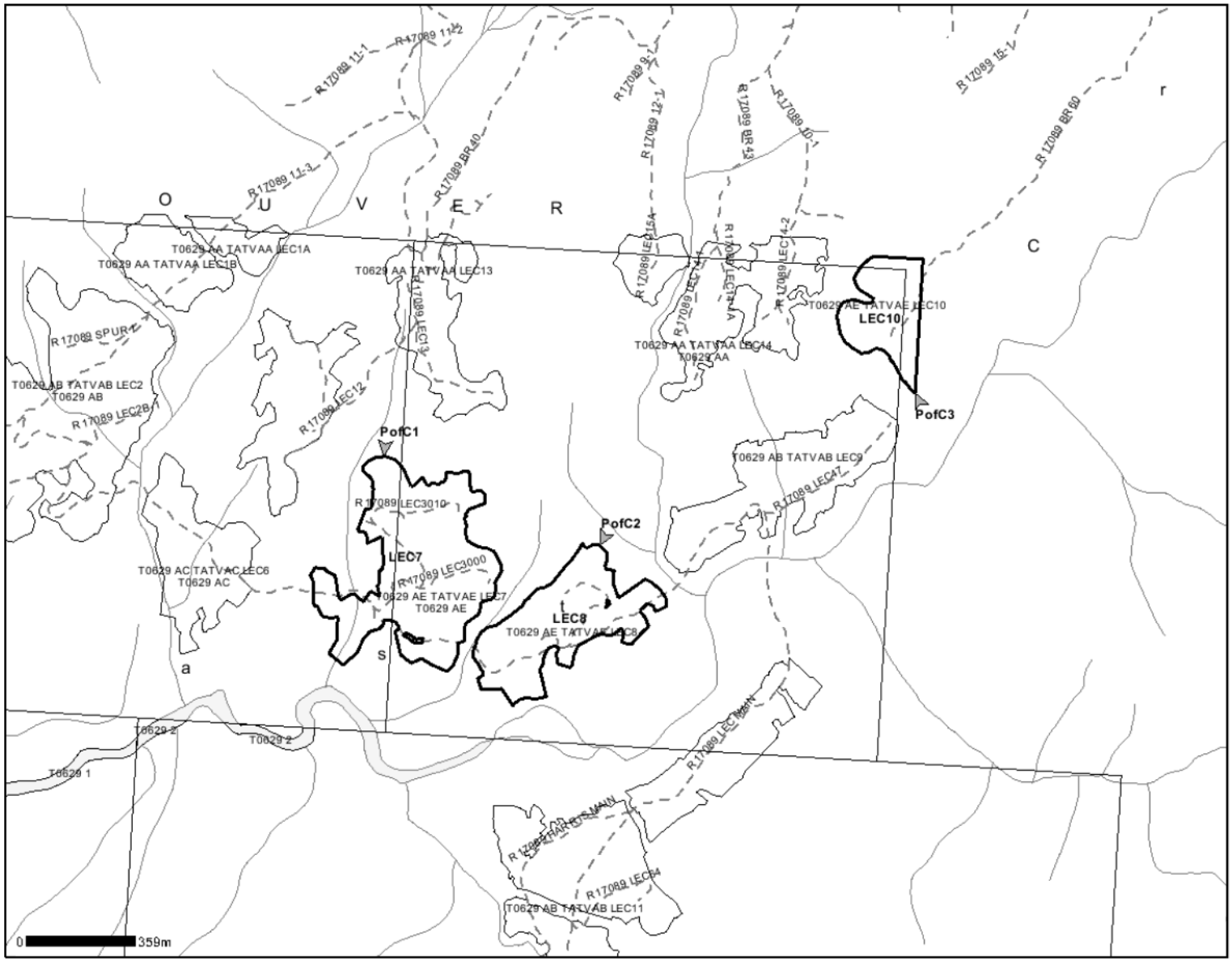
(45.293 Ha)
PofC1 UTM9 595328, 5568045
PofC2 UTM9 594319, 5567505
PofC3 UTM9 594349, 5567309
PofC4 UTM9 593602, 5567767
PofC5 UTM9 593711, 5567173

BRITISH COLUMBIA

MINISTRY OF FORESTS, LANDS AND NATURAL RESOURCE OPERATIONS

EXHIBIT A

MAP OF : T0629 CP AD (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RUPERT DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : Outside Managed Units MGT UNIT NO :
ESF SUBMISSION ID : 1439791 BCGS MAPSHEET NO : 92L.022	SCALE : 1:20000 at A Size Area (Ha): 45.293	UTM : 9 NAD : NAD 83	DRAWN BY : FTA DATE : Jul 24, 2015



Legend

- Tenure Application
- Tenure Road Application
- Retired Tenure Road
- P of C
- P of T
- Tenure Feature
- Range
- TFL
- Provincial Forest
- Forest Service Road
- Highway
- Municipal Road
- Non Status Road
- Recreation Trails
- Road Permit
- SUP Road
- Right of Way
- Schedule B CP Road
- Mineral Tenure Points
- Cities
- Waterbodies
- River/Stream
- Coastline / Island

LEC7 (23.353 Ha)
PofC1 UTM9 593602, 5567767
PofC2 UTM9 593711, 5567173
LEC8 (14.259 Ha)
PofC3 UTM9 594319, 5567505
PofC4 UTM9 594349, 5567309
LEC10 (7.681 Ha)
PofC5 UTM9 595328, 5568045

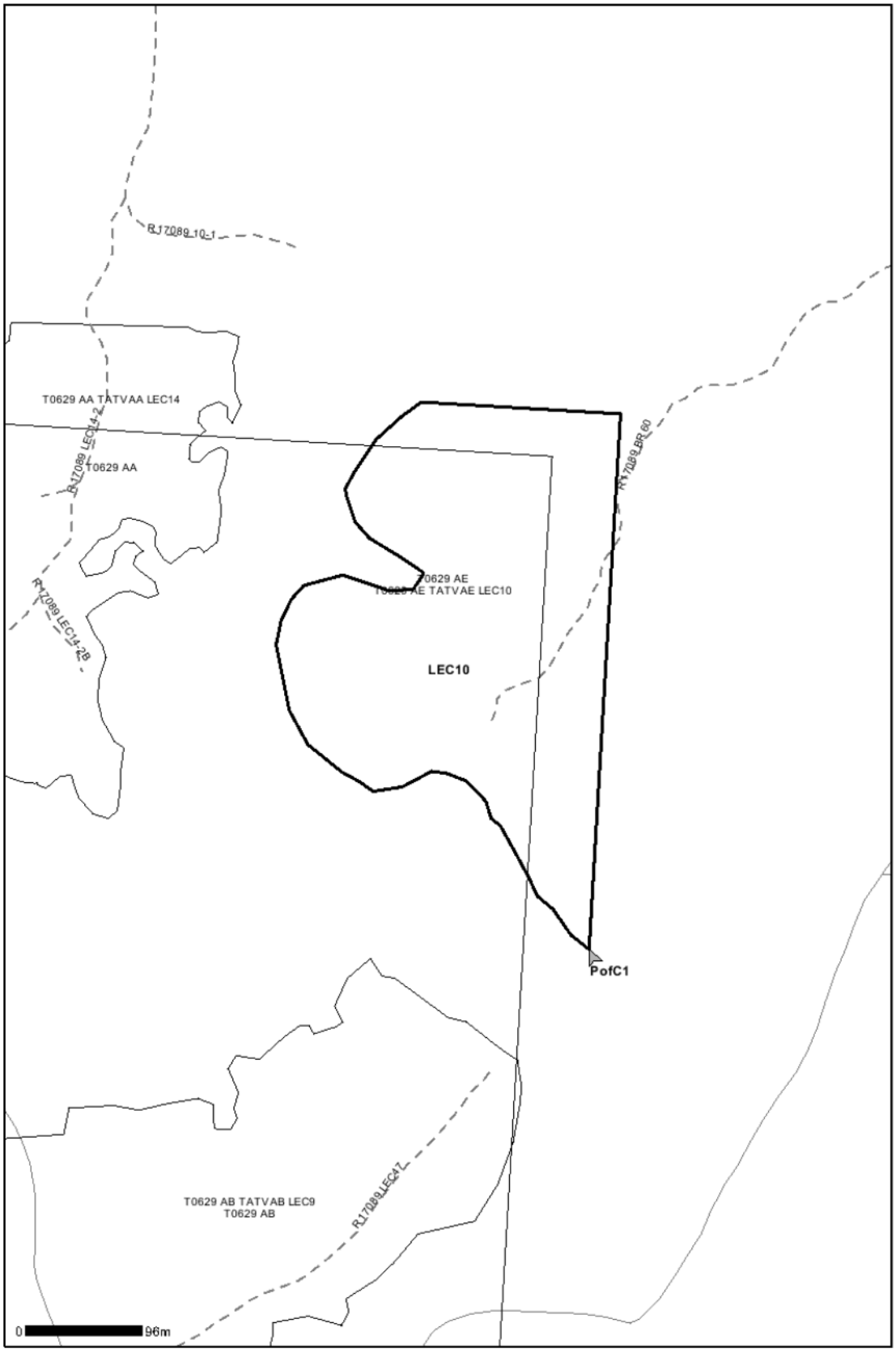
Inside Timber Licence T0629. Timber Licence boundary is being displayed slightly off in this area Save and Except the prior rights of R17089

REVIEWED
By Cyndi Schofield at 10:17 am, Aug 07, 2015

BRITISH COLUMBIA

EXHIBIT A

MAP OF : T0629 CP AD CB LEC10 (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RUPERT DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : Outside Managed Units MGT UNIT NO :
ESF SUBMISSION ID : 1439791 BCGS MAPSHEET NO : 92L.022	SCALE : 1:5000 at A Size Area (Ha): 7.681	UTM : 9 NAD : NAD 83	DRAWN BY : FTA DATE : Jul 24, 2015



Legend

- Tenure Application
- Tenure Road Application
- Retired Tenure Road
- P of C
- P of T
- Tenure Feature
- Range
- TFL
- Provincial Forest
- Forest Service Road
- Highway
- Municipal Road
- Non Status Road
- Recreation Trails
- Road Permit
- SUP Road
- Right of Way
- Schedule B CP Road
- Mineral Tenure Points
- Cities
- Waterbodies
- River/Stream
- Coastline / Island

LEC10 (7.681 Ha)
PofC1 UTM9 595328, 5568045

BRITISH COLUMBIA

EXHIBIT A

MAP OF : T0629 CP AD CB LEC8 (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RUPERT DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : Outside Managed Units MGT UNIT NO :
ESF SUBMISSION ID : 1439791 BCGS MAPSHEET NO : 92L.022	SCALE : 1:5000 at A Size Area (Ha): 14.259	UTM : 9 NAD : NAD 83	DRAWN BY : FTA DATE : Jul 24, 2015

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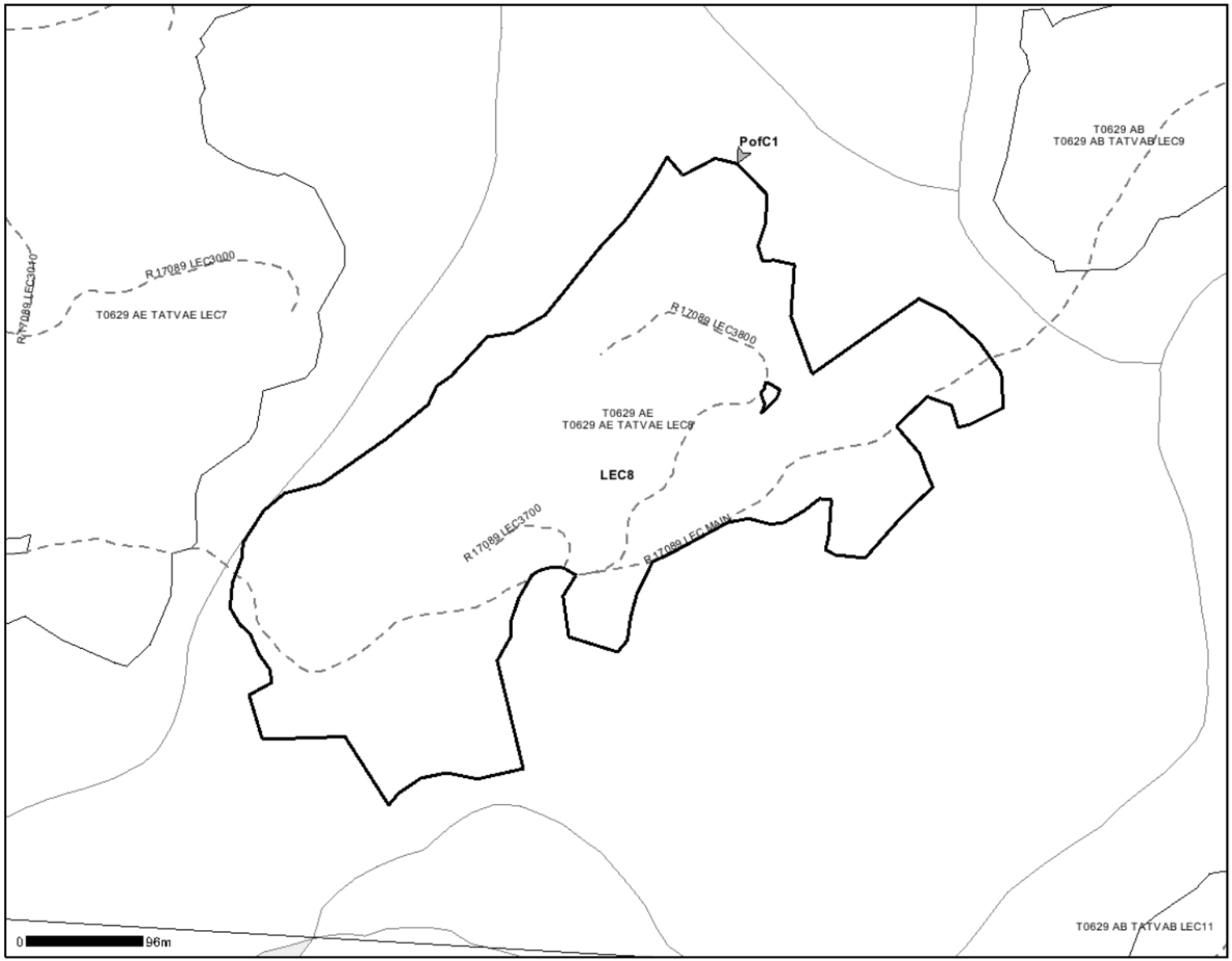

Legend

- Tenure Application
- Tenure Road Application
- Retired Tenure Road
- P of C
- P of T
- Tenure Feature
- Range
- TFL
- Provincial Forest
- Forest Service Road
- Highway
- Municipal Road
- Non Status Road
- Recreation Trails
- Road Permit
- SUP Road
- Right of Way
- Schedule B CP Road
- Mineral Tenure Points
- Cities
- Waterbodies
- River/Stream
- Coastline / Island

LEC8 (14.259 Ha)
PofC1 UTM9 594319, 5567505
PofC2 UTM9 594349, 5567309

BRITISH COLUMBIA

EXHIBIT A

MAP OF : T0629 CP AD CB LEC7 (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RUPERT DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : Outside Managed Units MGT UNIT NO :
ESF SUBMISSION ID : 1439791 BCGS MAPSHEET NO : 92L.022	SCALE : 1:5000 at A Size Area (Ha): 23.353	UTM : 9 NAD : NAD 83	DRAWN BY : FTA DATE : Jul 24, 2015

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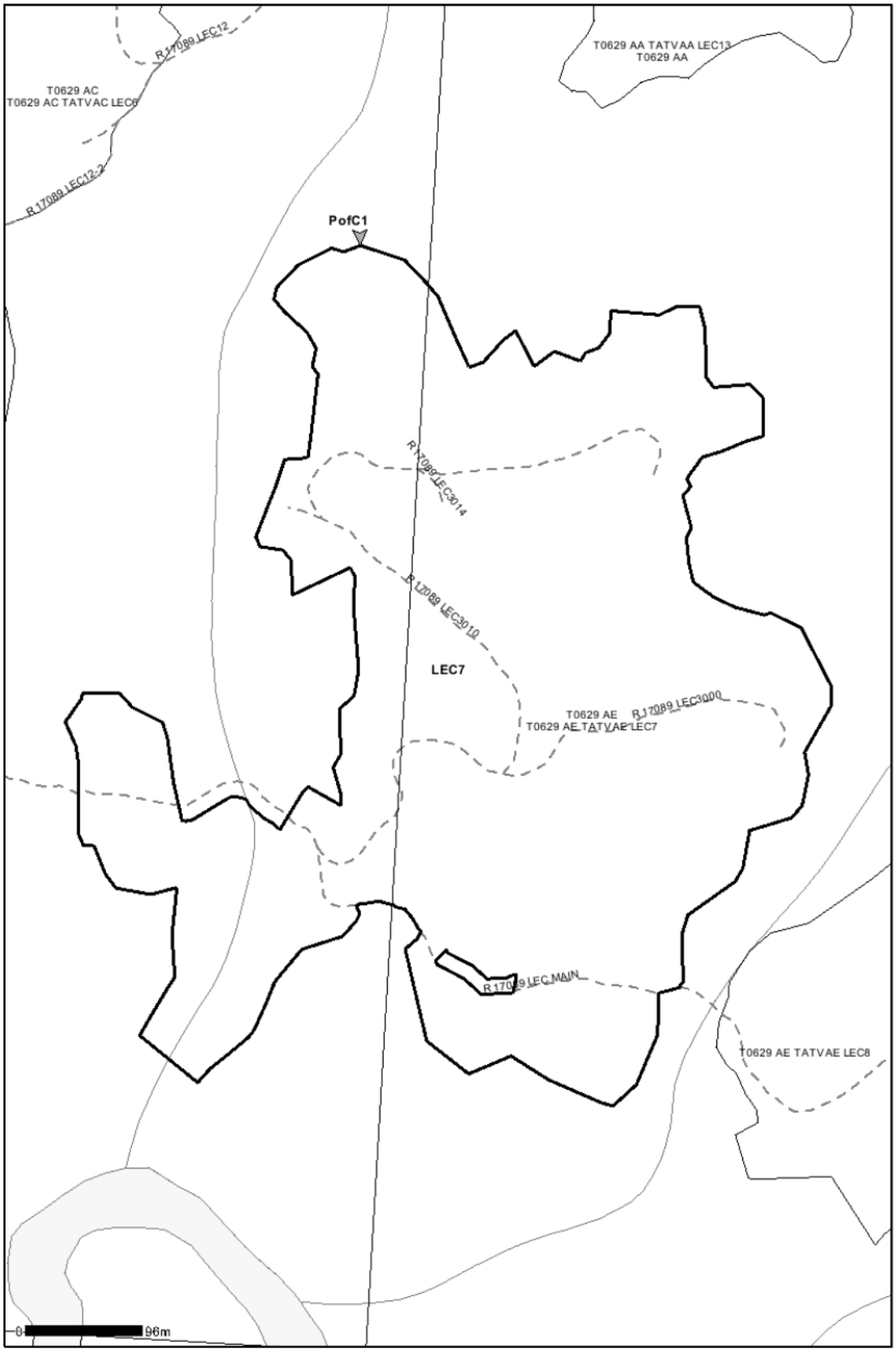


Legend

- Tenure Application
- Tenure Road Application
- Retired Tenure Road
- P of C
- P of T
- Tenure Feature
- Range
- TFL
- Provincial Forest
- Forest Service Road
- Highway
- Municipal Road
- Non Status Road
- Recreation Trails
- Road Permit
- SUP Road
- Right of Way
- Schedule B CP Road
- Mineral Tenure Points
- Cities
- Waterbodies
- River/Stream
- Coastline / Island

LEC7 (23.353 Ha)
PofC1 UTM9 593602, 5567767
PofC2 UTM9 593711, 5567173

Verbrugge, Cheryl FLNR:EX

From: Josh Hiebert <jhiebert@lemare.ca>
Sent: Thursday, March 19, 2015 4:24 PM
To: Connon, Hugh J FLNR:EX
Subject: RE: T0629, CP AB - Appraisal

Thanks
I will get to changes

From: Connon, Hugh J FLNR:EX [mailto:Hugh.Connon@gov.bc.ca]
Sent: March-19-15 4:22 PM
To: Josh Hiebert
Subject: RE: T0629, CP AB - Appraisal

That is correct.

Hugh Connon, RFT
Resource Technician
Ministry of Forests, Lands & Natural Resource Operations
Government of British Columbia
Phone: (250) 956-5117
Email: Hugh.Connon@gems4.gov.bc.ca

From: Josh Hiebert [mailto:jhiebert@lemare.ca]
Sent: Thursday, March 19, 2015 4:17 PM
To: Connon, Hugh J FLNR:EX
Subject: RE: T0629, CP AB - Appraisal

Thanks Hugh
Is this ALL of the review other than the changes I am also doing for Steve? There are no further changes coming from Terry?
Thanks
Josh

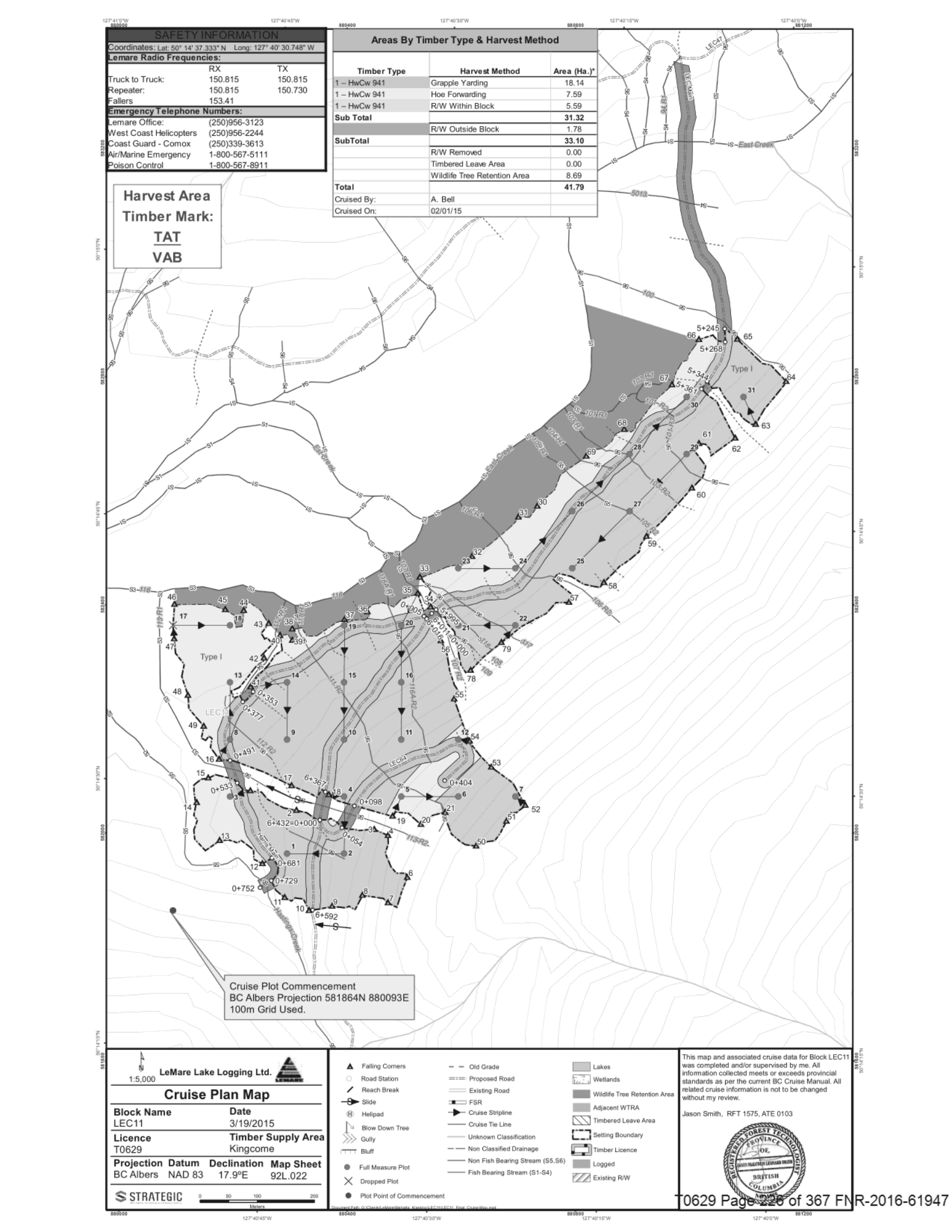
From: Connon, Hugh J FLNR:EX [mailto:Hugh.Connon@gov.bc.ca]
Sent: March-19-15 4:06 PM
To: Josh Hiebert
Subject: T0629, CP AB - Appraisal

Hello Josh, for the segment of Tabular Roads 0+322 to 0+336 on Branch LEC64, the six(6) meter log bridge is included. The 6 metres should be removed form that segment of Tabular Roads. The six(6) metre log bridge is at Stn 0+331 on Branch LEC64.

Also, the metal culverts shown on the appraisal maps should be shown on the Culvert Worksheet and the ECAS36 Culverts Page, the culverts on the maps should correspond correctly.

Hugh Connon, RFT
Resource Technician
Ministry of Forests, Lands & Natural Resource Operations
Government of British Columbia

Phone: (250) 956-5117
Email: Hugh.Connon@gems4.gov.bc.ca


SAFETY INFORMATION
Coordinates: Lat: 50° 14' 37.333" N Long: 127° 40' 30.748" W
Lemare Radio Frequencies:
RX TX
Truck to Truck: 150.815 150.815
Repeater: 150.815 150.730
Fallers 153.41
Emergency Telephone Numbers:
Lemare Office: (250)956-3123
West Coast Helicopters (250)956-2244
Coast Guard - Comox (250)339-3613
Air/Marine Emergency 1-800-567-5111
Poison Control 1-800-567-8911
Areas By Timber Type & Harvest Method
Timber Type | Harvest Method | Area (Ha.)*
1 – HwCw 941 | Grapple Yarding | 18.14
1 – HwCw 941 | Hoe Forwarding | 7.59
1 – HwCw 941 | R/W Within Block | 5.59
Sub Total | | 31.32
| R/W Outside Block | 1.78
SubTotal | | 33.10
| R/W Removed | 0.00
| Timbered Leave Area | 0.00
| Wildlife Tree Retention Area | 8.69
Total | | 41.79
Cruised By: A. Bell
Cruised On: 02/01/15
Harvest Area
Timber Mark:
TAT
VAB
East Creek
Heath Creek
Type I
Cruise Plot Commencement
BC Albers Projection 581864N 880093E
100m Grid Used.
1:5,000
LeMare Lake Logging Ltd.
Cruise Plan Map
Block Name LEC11
Date 3/19/2015
Licence T0629
Timber Supply Area Kingcome
Projection BC Albers
Datum NAD 83
Declination 17.9°E
Map Sheet 92L.022
STRATEGIC
Meters
Falling Corners
Road Station
Reach Break
Slide
Helipad
Blow Down Tree
Gully
Bluff
Full Measure Plot
Dropped Plot
Plot Point of Commencement
Old Grade
Proposed Road
Existing Road
FSR
Cruise Stripline
Cruise Tie Line
Unknown Classification
Non Classified Drainage
Non Fish Bearing Stream (S5,S6)
Fish Bearing Stream (S1-S4)
Lakes
Wetlands
Wildlife Tree Retention Area
Adjacent WTRA
Timbered Leave Area
Setting Boundary
Timber Licence
Logged
Existing R/W
This map and associated cruise data for Block LEC11 was completed and/or supervised by me. All information collected meets or exceeds provincial standards as per the current BC Cruise Manual. All related cruise information is not to be changed without my review.
Jason Smith, RFT 1575, ATE 0103
REGISTERED FOREST TECHNOLOGIST
PROVINCE OF BRITISH COLUMBIA
JASON MALCOLM LEONARD SMITH

Verbrugge, Cheryl FLNR:EX

From: Josh Hiebert <jhiebert@lemare.ca>
Sent: Tuesday, May 19, 2015 5:44 PM
To: FTA DIC P FLNR:EX
Subject: T0629 CP AC
Attachments: T0629_CP AC_21April2015.pdf; 2879_001.pdf

I have attached the cover letter for T0629 CP 'AC' Application that I have made on behalf of Lions Gate Forest Products Ltd. All data is entered in ECAS (ID:67386) and the ESF #1410895 was submitted also.
LGFP has notified the Quatsino and had a full information sharing session with Ralph Wallas, his team and Kathy DesRochers on May 14, 2014 regarding our plans for this area. During our information sharing it was determined that no Archaeological assessment would be required for the block LEC6 and we would follow 'Standard Operating Procedures', and the Quatsino had no further concerns with our plans. During the engineering and field work there were no heritage features or archaeological important features identified within our proposed cut blocks or along our roads. An AIA was completed for LEC4 and an Approved Site Alteration permit (15A0097)will be used to modify the features around LEC4

Please let me know if you have any questions and I look forward to hearing from you soon.

Joshua Hiebert, RFT, ATC
Planning Manager
LEMARE

3341 Mine Road – PO Box 609
Port McNeill, B.C., Canada V0N 2R0
Telephone: (250) 956-3123
Cell: (250) 902-8991
Fax: (250) 956-4888
Email: jhiebert@lemare.ca

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Verbrugge, Cheryl FLNR:EX

From: Birrell, Steve A FLNR:EX
Sent: Wednesday, August 19, 2015 9:00 AM
To: Josh Hiebert
Cc: Elliott, Terry C FLNR:EX; Connon, Hugh J FLNR:EX; Mathieu, Phil FLNR:EX
Subject: RE: ECAS 72255 T0629 CP AD Appraisal Issue re EH

Hi Josh, I was away yesterday. I see you have sent me new EH data, I will review it and if all is good I will send the ECAS submission back so you can make the adjustments to it.

Steve

From: Josh Hiebert [mailto:jhiebert@lemare.ca]
Sent: Tuesday, August 18, 2015 6:51 AM
To: Birrell, Steve A FLNR:EX
Cc: Elliott, Terry C FLNR:EX; Connon, Hugh J FLNR:EX; Mathieu, Phil FLNR:EX
Subject: RE: ECAS 72255 T0629 CP AD Appraisal Issue re EH

Please return to me and I will upload updated end haul data, with the road designs corrected instead of chainage equation

---

From: Birrell, Steve A FLNR:EX [mailto:Steve.Birrell@gov.bc.ca]
Sent: August-14-15 11:20 AM
To: Josh Hiebert <jhiebert@lemare.ca>
Cc: Elliott, Terry C FLNR:EX <Terry.Elliott@gov.bc.ca>; Connon, Hugh J FLNR:EX <Hugh.Connon@gov.bc.ca>; Mathieu, Phil FLNR:EX <Phil.Mathieu@gov.bc.ca>
Subject: ECAS 72255 T0629 CP AD Appraisal Issue re EH

Josh, the EH data (xsections, volume stations and haul distances) for all the EH being claimed on BR60 is off by + 42m.

Please clarify, Steve.

March 20, 2015

T0629 – Lions Gate Forest Products Ltd. Block LEC9 – Cruise Area Decrease Rationale

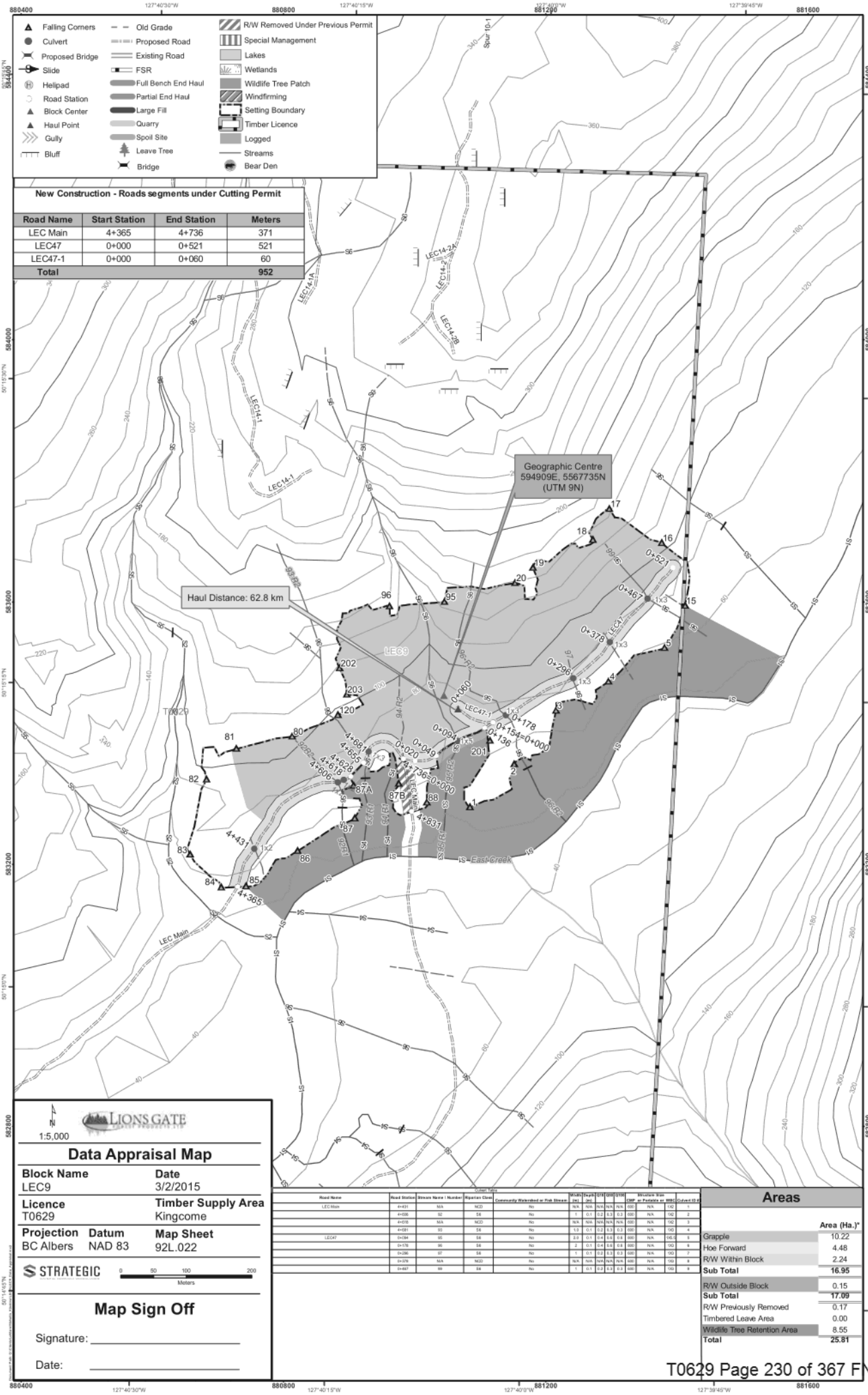
Summary

Block LEC9 in T0629 had the harvest area decreased after vthe original; cruise plan was submitted. The decrease in area was to allow an economic block between LEC14 and LEC9 for adjacency.

If there are any questions or concerns please feel free to contact me at (250) 356-3123, or jhiebert@lemare.ca

Joshua Hiebert, RFT, ATC
Planning Manager
LEMARE

3341 Mine Road – PO Box 609
Port McNeill, B.C., Canada V0N 2R0
Telephone: (250) 956-3123
Cell: (250) 902-8991
Fax: (250) 956-4888
Email: jhiebert@lemare.ca



New Construction - Roads segments under Cutting Permit

Road Name	Start Station	End Station	Meters
LEC Main	4+365	4+736	371
LEC47	0+000	0+521	521
LEC47-1	0+000	0+060	60
Total			**952**

1:5,000

Data Appraisal Map

Block Name LEC9	**Date** 3/2/2015
Licence T0629	**Timber Supply Area** Kingcome
Projection BC Albers	**Datum** NAD 83 / **Map Sheet** 92L.022

STRATEGIC

0 50 100 200 Meters

Map Sign Off

Signature: _____

Date: _____

Road Name	Road Station	Stream Name / Number	Riparian Class	Culvert Table: Community Watershed or Fish Stream	Width (m)	Depth (m)	Q10	Q20	Q100	Structure Size: CSP or Portable or WBC	Culvert ID #
LEC Main	4+431	N/A	NCD	No	N/A	N/A	N/A	N/A	N/A	600	N/A	15C	1
	4+606	92	S4	No	1	0.1	0.2	0.3	0.3	600	N/A	15C	2
	4+618	N/A	NCD	No	N/A	N/A	N/A	N/A	N/A	600	N/A	15C	3
	4+681	93	S4	No	1.3	0.1	0.2	0.3	0.3	600	N/A	15C	4
LEC47	0+094	95	S4	No	2.2	0.1	0.4	0.6	0.8	600	N/A	15C	5
	0+178	96	S4	No	2	0.1	0.4	0.6	0.8	600	N/A	15C	6
	0+298	97	S4	No	1	0.1	0.2	0.3	0.3	600	N/A	15C	7
	0+378	N/A	NCD	No	N/A	N/A	N/A	N/A	N/A	600	N/A	15C	8
	0+467	99	S4	No	1	0.1	0.2	0.3	0.3	600	N/A	15C	9

Areas

	Area (Ha.)*
Grapple	10.22
Hoe Forward	4.48
R/W Within Block	2.24
Sub Total	**16.95**
R/W Outside Block	0.15
Sub Total	**17.09**
R/W Previously Removed	0.17
Timbered Leave Area	0.00
Wildlife Tree Retention Area	8.55
Total	**25.81**

LIONS GATE FOREST PRODUCTS LTD

LOCATION: Lower East Creek
BLOCK NAME: LEC11
ROAD NAME: Harris Main
DRAWN BY: M. Cottone
DATE: 2015-02-18

Possible
FULL BENCH ENDHAUL:

0+179 to 0+264

Cut Volume Total = 1606.8
Fill Volume Total =0.0
EH = 100%

Average Uphill Sideslope = 47%
Construction Category = CC5

***Note - Road grade crosses through mutliple draws within prescribed section of Full Bench Endhaul and require fill. Fill volumes will consist of controlled placement of coarse, angular rock and have not been included in endhaul calculations.**

Profile Vert Scale 1:200
Profile Horiz. Scale 1:2000

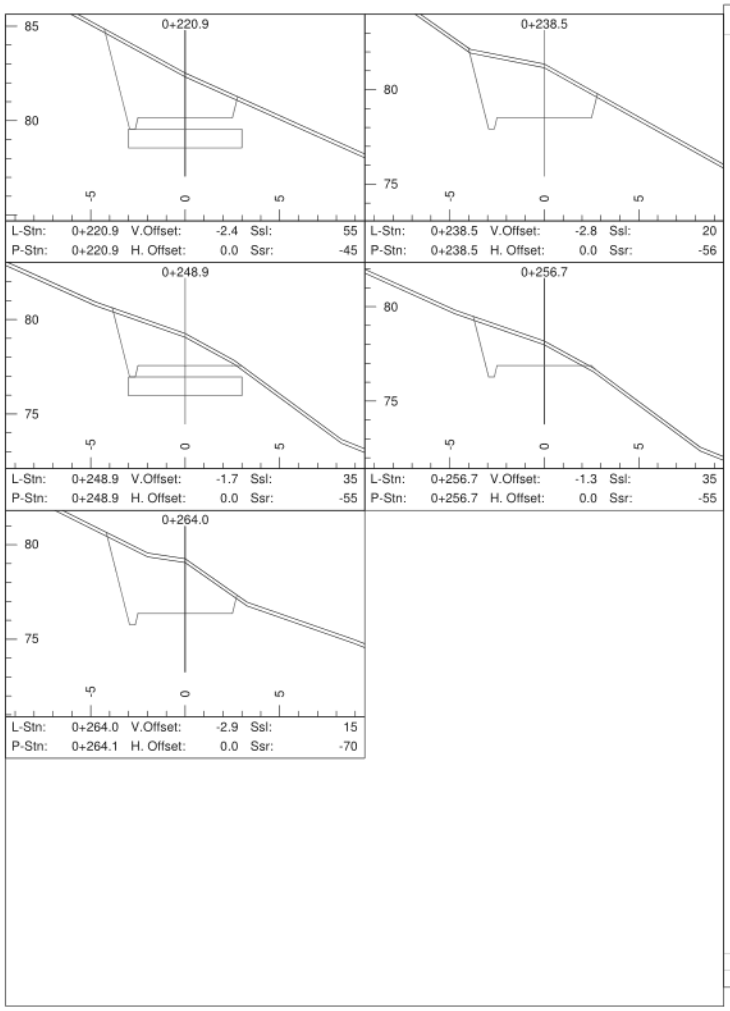
LEGEND

Profile Topography

Design Grade

Profile Culverts

STRATEGIC



P-Stn m.	Ssl %	Ssr %	SG Cut V. Cu. m.	SG Fill V. Cu. m.	Mass H. Cu. m.
0+178.0	85	-60	21.1	0.0	1018.4
0+179.0	85	-60	24.8	0.0	1039.5
0+180.3	85	-60	76.3	0.0	1064.3
0+185.7	47	-45	154.0	0.0	1140.6
0+198.7	-43	-55	84.7	0.0	1294.6
0+205.0	70	-20	218.9	0.0	1379.3
0+217.6	25	-65	61.3	0.0	1598.2
0+220.9	55	-45	302.9	0.0	1659.5
0+238.5	20	-56	150.0	0.0	1962.4
0+248.9	35	-55	74.8	0.0	2112.5
0+256.7	35	-55	97.7	0.0	2187.3
0+264.0	15	-70	17.8	0.0	2285.0
0+265.0	15	-70			2302.8
Pg. Tot.			1284.5	0.1	
Cum. Tot.			2562.9	260.1	

CUTTING AUTHORITY DETAIL

Weighted Haul Distance: 57.9

Weighted Crew Transportation Distance: 57.9

Point of Appraisal: ALBE - Alberni

Cutblock #	Harvest Method	Volume (m3)	Point of Origin		Appraisal Log Dump	Other Log Dump	Truck Haul Distance (km)	Crew Transportation		Accessible / Isolated	Road Management	Major Centre	
			1	2				Distance (km)	Marshall Point			Major Centre	Distance (km)
LEC4	CY	20697	Cleagh Creek		MAHA		58.0	58.0	Mahatta	A	Yes	Campbell River	178
LEC6	CY	15679	Cleagh Creek		MAHA		57.7	57.7	57.7	A	Yes	Campbell River	200

OPERATING COST INFORMATION

Development Cost - Bridges

Type	Road Name	Stn #		Bridge Type	Crib Height (m)	Span Length (m)	Crown %	Amortized %	Appraisal Year	Bridge Built?
		Start	End							
N	S1200	327	331	L - Log	1	4	100	100	2015	☐
N	S1200	343	347	L - Log	1	4	100	100	2015	☐
N	SARAH MAIN	814	819	L - Log	1	5	100	100	2015	☐
N	SARAH MAIN	1650	1654	L - Log	1	4	100	100	2015	☐
N	SARAH MAIN	1703	1707	L - Log	1	4	100	100	2015	☐
N	SARAH MAIN	1908	1912	L - Log	2	4	100	100	2015	☐
N	SARAH MAIN	1957	1967	L - Log	2	10	100	100	2015	☐

OPERATING COST INFORMATION

Development Cost - Tabular Roads

Identity				Subgrade						
	Station #									
Road Name	Start	End	Section Length (km)	Bank Height Category	RMC	Appraisal Year	Crown %	Amortized %	Section Built?	
LEC12	0	514	0.514	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
LEC12-1	0	389	0.389	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
LEC12-2	0	246	0.246	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
LEC2400	0	82	0.082	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
LEC2450	0	82	0.082	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1200	0	20	0.020	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
S1200	20	23	0.003	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1200	23	34	0.011	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S1200	34	40	0.006	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
S1200	40	46	0.006	XXRK - Double Extra Heavy Rock - Rock Face 6.01 to 7.5m	S - Soft	2015	100	100	☐	
S1200	46	58	0.012	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1200	58	67	0.009	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S1200	67	74	0.007	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
S1200	74	100	0.026	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1200	100	135	0.035	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S1200	135	146	0.011	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
S1200	146	151	0.005	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1200	151	155	0.004	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
S1200	155	163	0.008	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1200	163	166	0.003	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S1200	166	180	0.014	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1200	180	199	0.019	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S1200	199	216	0.017	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1200	216	220	0.004	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
S1200	243	249	0.006	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
S1200	249	260	0.011	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S1200	260	291	0.031	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
S1200	311	320	0.009	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
S1200	320	326	0.006	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	

S1200	326	327	0.001	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1200	331	342	0.011	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S1200	340	343	0.003	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1200	347	352	0.005	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S1200	352	359	0.007	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1200	359	378	0.019	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S1200	421	427	0.006	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
S1200	427	435	0.008	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1200	435	443	0.008	XXRK - Double Extra Heavy Rock - Rock Face 6.01 to 7.5m	S - Soft	2015	100	100	☐	
S1200	474	486	0.012	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S1200	486	498	0.012	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1200	498	508	0.010	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S1200	508	519	0.011	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
S1200	519	555	0.036	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S1200	555	559	0.004	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1200	559	575	0.016	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
S1200	575	592	0.017	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S1200	592	607	0.015	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
S1200	607	619	0.012	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
S1200	619	630	0.011	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S1200	630	638	0.008	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
S1200	638	656	0.018	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
S1200	720	736	0.016	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
S1200	736	740	0.004	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
S1200	740	741	0.001	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
S1200	741	749	0.008	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
S1200	770	772	0.002	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
S1200	772	793	0.021	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1200	793	797	0.004	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S1200	797	814	0.017	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
S1500	0	15	0.015	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
S1500	15	22	0.007	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S1500	22	29	0.007	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
S1500	29	40	0.011	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
S1500	40	50	0.010	XXRK - Double Extra Heavy Rock - Rock Face 6.01 to 7.5m	S - Soft	2015	100	100	☐	
S1500	50	54	0.004	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
S1500	54	55	0.001	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
S1500	55	67	0.012	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
S1500	67	73	0.006	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
S1500	73	74	0.001	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S1500	74	77	0.003	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	

S1500	77	85	0.008	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
S1500	85	123	0.038	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1500	123	129	0.006	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
S1500	129	136	0.007	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1500	136	143	0.007	XXRK - Double Extra Heavy Rock - Rock Face 6.01 to 7.5m	S - Soft	2015	100	100	☐	
S1500	143	161	0.018	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
S1500	161	171	0.010	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S1500	171	202	0.031	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1500	202	229	0.027	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S1500	229	242	0.013	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
S1500	242	256	0.014	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
S1500	256	273	0.017	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
S1500	273	302	0.029	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
S1500	302	315	0.013	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
S1500	315	324	0.009	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1500	324	336	0.012	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S1500	336	345	0.009	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
S1500	345	373	0.028	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1500	373	396	0.023	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
S1500	396	401	0.005	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1500	401	416	0.015	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
S1500	416	436	0.020	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1500	436	445	0.009	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
S1500	445	457	0.012	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
S1800	0	6	0.006	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1800	6	14	0.008	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S1800	14	30	0.016	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1800	30	45	0.015	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
S1800	45	56	0.011	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1800	56	64	0.008	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S1800	64	71	0.007	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1800	71	100	0.029	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
S1800	100	113	0.013	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1800	113	120	0.007	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
S1800	120	158	0.038	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S700	0	19	0.019	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
S700	19	60	0.041	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S700	60	68	0.008	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S700	68	79	0.011	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
S700	79	93	0.014	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S700	93	100	0.007	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	

S700	100	120	0.020	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S700	120	143	0.023	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S700	143	160	0.017	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S700	160	175	0.015	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S700	175	180	0.005	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S700	180	190	0.010	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
S700	190	195	0.005	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
S700	195	205	0.010	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
S700	205	216	0.011	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S700	216	240	0.024	XXRK - Double Extra Heavy Rock - Rock Face 6.01 to 7.5m	S - Soft	2015	100	100	☐	
S700	240	266	0.026	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
S700	266	270	0.004	XXRK - Double Extra Heavy Rock - Rock Face 6.01 to 7.5m	S - Soft	2015	100	100	☐	
S700	270	276	0.006	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
S700	276	288	0.012	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
S700	288	308	0.020	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
S700	308	316	0.008	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S700	316	336	0.020	XXRK - Double Extra Heavy Rock - Rock Face 6.01 to 7.5m	S - Soft	2015	100	100	☐	
S700	336	345	0.009	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
S700	345	350	0.005	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	458	463	0.005	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	463	478	0.015	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	478	488	0.010	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	488	496	0.008	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	496	500	0.004	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	500	520	0.020	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	520	539	0.019	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	539	545	0.006	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	545	560	0.015	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	560	591	0.031	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	591	600	0.009	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	600	602	0.002	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	602	620	0.018	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	620	669	0.049	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	669	680	0.011	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	680	693	0.013	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	693	736	0.043	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	736	739	0.003	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	739	747	0.008	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	747	765	0.018	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	765	780	0.015	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	780	800	0.020	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	

SARAH MAIN	800	809	0.009	XXRK - Double Extra Heavy Rock - Rock Face 6.01 to 7.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	809	814	0.005	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
SARAH MAIN	819	820	0.001	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	820	822	0.002	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	822	834	0.012	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	834	849	0.015	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
SARAH MAIN	849	858	0.009	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	858	866	0.008	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
SARAH MAIN	866	874	0.008	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	874	899	0.025	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	899	904	0.005	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	904	915	0.011	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
SARAH MAIN	915	935	0.020	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	935	939	0.004	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	939	940	0.001	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
SARAH MAIN	940	946	0.006	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	946	955	0.009	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	955	958	0.003	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	958	971	0.013	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	971	978	0.007	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	978	1006	0.028	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	1006	1010	0.004	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1010	1018	0.008	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1018	1020	0.002	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
SARAH MAIN	1020	1035	0.015	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1035	1057	0.022	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
SARAH MAIN	1057	1097	0.040	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1097	1098	0.001	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	1098	1151	0.053	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1151	1162	0.011	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1162	1167	0.005	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	1167	1176	0.009	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
SARAH MAIN	1176	1185	0.009	XXRK - Double Extra Heavy Rock - Rock Face 6.01 to 7.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1185	1196	0.011	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
SARAH MAIN	1196	1204	0.008	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	1204	1216	0.012	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1216	1224	0.008	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1224	1234	0.010	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	1234	1249	0.015	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	1249	1284	0.035	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1284	1289	0.005	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	

SARAH MAIN	1289	1330	0.041	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	1330	1336	0.006	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1336	1348	0.012	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	1348	1356	0.008	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1356	1376	0.020	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	1376	1387	0.011	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	1387	1396	0.009	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1396	1416	0.020	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	1416	1428	0.012	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1428	1449	0.021	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	1449	1465	0.016	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1465	1476	0.011	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	1476	1485	0.009	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1485	1488	0.003	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	1488	1506	0.018	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1506	1512	0.006	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	1512	1516	0.004	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1516	1548	0.032	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	1548	1576	0.028	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1576	1596	0.020	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	1596	1602	0.006	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1602	1650	0.048	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	1654	1676	0.022	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1676	1701	0.025	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	1701	1703	0.002	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1707	1736	0.029	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	1736	1753	0.017	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1753	1776	0.023	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	1776	1790	0.014	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1790	1802	0.012	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	1802	1811	0.009	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1811	1816	0.005	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	1816	1830	0.014	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1830	1835	0.005	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1835	1853	0.018	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1853	1856	0.003	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1856	1867	0.011	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	1867	1873	0.006	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1873	1876	0.003	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	1876	1880	0.004	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1880	1891	0.011	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	

SARAH MAIN	1891	1895	0.004	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1895	1904	0.009	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
SARAH MAIN	1904	1908	0.004	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	1912	1957	0.045	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	1967	2002	0.035	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	2002	2009	0.007	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	2009	2015	0.006	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2015	2031	0.016	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
SARAH MAIN	2031	2035	0.004	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	2035	2041	0.006	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2041	2052	0.011	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	2052	2063	0.011	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2063	2075	0.012	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	2075	2080	0.005	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2080	2121	0.041	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	2121	2143	0.022	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2143	2175	0.032	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	2175	2182	0.007	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2182	2191	0.009	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	2191	2194	0.003	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2194	2202	0.008	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	2202	2213	0.011	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
SARAH MAIN	2213	2217	0.004	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	2217	2305	0.088	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2305	2310	0.005	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	2310	2333	0.023	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2333	2344	0.011	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	2344	2351	0.007	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2351	2354	0.003	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	2354	2358	0.004	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2358	2370	0.012	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	2370	2379	0.009	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2379	2406	0.027	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	2406	2411	0.005	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	2411	2427	0.016	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
SARAH MAIN	2427	2433	0.006	XXRK - Double Extra Heavy Rock - Rock Face 6.01 to 7.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2433	2434	0.001	XXRK - Double Extra Heavy Rock - Rock Face 6.01 to 7.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2434	2444	0.010	XXRK - Double Extra Heavy Rock - Rock Face 6.01 to 7.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2444	2462	0.018	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2462	2473	0.011	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	2473	2477	0.004	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	

SARAH MAIN	2477	2498	0.021	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	2498	2504	0.006	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2504	2513	0.009	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	2513	2564	0.051	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2564	2573	0.009	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	2573	2593	0.020	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2593	2630	0.037	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	2630	2652	0.022	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2652	2664	0.012	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	2664	2673	0.009	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2673	2690	0.017	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	2690	2704	0.014	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	2704	2731	0.027	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2731	2733	0.002	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2733	2753	0.020	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	2753	2770	0.017	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2770	2776	0.006	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2776	2790	0.014	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	2790	2813	0.023	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	2813	2815	0.002	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2815	2827	0.012	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	2827	2833	0.006	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	2833	2838	0.005	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	2838	2851	0.013	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	2851	2860	0.009	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	2860	2868	0.008	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	2868	2873	0.005	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2873	2905	0.032	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	2905	2913	0.008	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2913	2928	0.015	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	2928	2933	0.005	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	2933	2965	0.032	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2965	3004	0.039	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	3004	3022	0.018	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	3022	3045	0.023	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	3045	3081	0.036	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	3081	3101	0.020	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	3101	3113	0.012	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	3113	3133	0.020	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	3133	3151	0.018	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	3151	3153	0.002	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	

SARAH MAIN	3153	3188	0.035	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	3188	3204	0.016	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	3204	3213	0.009	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	3213	3222	0.009	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	3222	3248	0.026	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	

Total for 2015 : 5.647 km

Tabular Road Total: 5.647 km

OPERATING COST INFORMATION

Development Cost - Road Reconstruction

Case	Road Name	Start	End	Section Length	Subgrade					Surfacing						Total Cost for Section	Appraisal Year	Crown %	Amortization %	Section Built
					Rem. Road Width	Construction Category	Uphill Side Slope %	Material Type	Cost per km	Required	Depth	Haul Distance	Pit Location	Material Type	Cost per km					
										☐										☐
		Total for : _____																		

OPERATING COST INFORMATION

Development Cost - End Haul

Type	Case	Road Name	Start	End	Section Length (km)	Subgrade							Surfacing					Partial %	Crown %	Amortized %	Total Cost for Section	Appraisal Year	Section Built
						Construction Category	Uphill Side Slope %	Material Type	Spoil Location	Haul Distance (km)	Total End Haul Volume (m3)	Total Cost End Haul ($/km)	Surfacing	Material Type	Pit Location	Haul Distance (km)	Total Cost / km ($/km)						
N	EH	S1200	220	243	0.023	5	50	S	S1200 0+000	0.21	415	243870	☐					100	100	100	5609	2015	☐
N	EH	S1200	291	311	0.020	5	90	S	S1200 0+000	0.28	341	231350	☐					100	100	100	4627	2015	☐
N	EH	S1200	378	421	0.043	5	65	S	S1200 0+000	0.00	616	0	☐					100	100	100	0	2015	☐
N	EH	S1200	443	474	0.031	5	50	S	S1200 0+000	0.43	428	188968	☐					100	100	100	5858	2015	☐
N	EH	S1200	656	720	0.064	6	100	S	S1200 0+000	0.67	1709	392891	☐					100	100	100	25145	2015	☐
N	EH	S1200	749	770	0.021	5	60	S	S1200 0+000	0.74	253	168048	☐					100	100	100	3529	2015	☐
		Total for 2015:			0.202																44768		
		Total:			0.202																44768		

SELLING PRICE INFORMATION

Grade %

Species	Peeler		Lumber				Sawlog			Shingle			Util.		Chip	Total Net Cruise Volume by Species	Grade Source Level
	B	C	D	E	F	G	H	I	J	K	L	M	U	X	Y		
Balsam																4173	
Cedar																18044	
Cypress																1400	
Hemlock																12594	
Spruce																165	

Selling Price Zone:

TOTAL NET CRUISE VOLUME: 36376

Second growth: ☐

Single Tree Selection Cruise Volume: ☐

TSA: 33 - Kingcome TSA

TSB: 33A - Kingcome TSA Brooks Block

Applicable Volume (m^3)	Appraisal Year	Area Unlogged (ha)
	2015	52.5

ATTACHMENTS

If submitting attachments as a single zip file, submit below.
Please check off below what attachments are contained in the zip file.

Attach File:

- ☐ Appraisal Map
- ☐ Approved Request for a Approval of a Road Use Charge

Specified Operations:

- ☐ A-frame Logging
- ☐ Blowdown Timber
- ☐ Single Tree Selection
- ☐ Group Selection
- ☐ Skyline Logging
- ☐ Lake Transportation
- ☐ Skidder Swing
- ☐ Towing to Tie-up Grounds
- ☐ Camp Move
- ☐ Destumping
- ☐ Tree Crown Modification
- ☐ Culvert Worksheet

Detailed Engineering

- ☐ Bridge Repairs
- ☐ Construction Estimate Form #1
- ☐ Construction Estimate Form #2
- ☐ Construction Estimate Form #3
- ☐ Construction Estimate Form #4
- ☐ Construction Estimate Form #5
- ☐ Greater than 5 Construction Estimate Forms

Cruise

- ☐ Cruise Compilation (.txt or .dat in ascii format for original & reduction data)
- ☐ Cruise Analysis Form (District Staff Only)
- ☐ Tenure Info. (District Staff Only)
- ☐ BC Timber Sales (FS 574) (BSTC Staff Only)
- ☐ Extended Road Amortization
- ☐ Miscellaneous

If attaching individually, submit below.

	Electronic (Attached)	Paper Copy To Follow	NA	Attachment
Appraisal Map	❍	❍	●	
Approved Request for a Approval of a Road Use Charge	❍	❍	●	
Specified Operation				
A-frame Logging	❍	❍	●	
Blowdown Timber	❍	❍	●	
Single-Tree Selection	❍	❍	●	
Group Selection	❍	❍	●	
Skyline Logging	❍	❍	●	
Lake Transportation	❍	❍	●	
Skidder Swing	❍	❍	●	
Towing To Tie-up Grounds	❍	❍	●	
Camp Move	❍	❍	●	
Destumping	❍	❍	●	
Tree Crown Modification	❍	❍	●	
Culvert Worksheet	❍	❍	●	
Detailed Engineering				
Bridge Repairs	❍	❍	●	
Construction Estimate Form #1	❍	❍	●	
Construction Estimate Form #2	❍	❍	●	
Construction Estimate Form #3	❍	❍	●	
Construction Estimate Form #4	❍	❍	●	
Construction Estimate Form #5	❍	❍	●	
If there are more than 5 CEF's please attach the remainder as a ZIP file	❍	❍	●	
Engineering info to Support Detailed Engineering	❍	❍	●	
Extended Road Amortization	●	❍	❍	FS1423_Road Ammortization Agreement_06May2015_signed.pdf
Cruise				
Cruise Compilation (.txt or .dat in ascii format for original & reduction data)	❍	❍	●	
Cruise Analysis Form (District Staff Only)	❍	❍	●	
Tenure Info. (District Staff Only)	❍	❍	●	
BC Timber Sales (FS 574) (BCTS Staff Only)	❍	❍	●	
Miscellaneous				
cruise data	●	❍	❍	Cruise Data.zip
ECAS Data	●	❍	❍	ECAS DATA.zip
End Haul Data	●	❍	❍	End Haul Data.zip
Terrrain data	●	❍	❍	Terrain Info.zip
	❍	❍	●	

Ecas ID: 67386 Primary Timber Mark: TATVAC Appraisal Effective Date: 2015-04-17
Printed Date: 2015-05-20 1:43:20PM

BRITISH COLUMBIA

Ministry of Forests, Lands and Natural Resource Operations

COAST APPRAISAL DATA SUBMISSION

Licence	T0629	**Cutting Permit**	AC	**Primary Timber Mark**	TATVAC
ECAS ID	67386			**ECAS Status**	Received

ACKNOWLEDGEMENTS

This Appraisal Data Submission is prepared in accordance with the *Coast Appraisal Manual* as of this date with truthful information on the timber to be harvested, site conditions, harvesting, development, silviculture plans, and other information.

If the R.P.F. or R.F.T. is not a staff member of the Licensee, then the

Licensee Representative is:

Name: Hiebert, Josh M

Phone: (250)956-3123

Fax:

E-mail Address: jhiebert@lemare.ca

Registered Professional Forester/Registered Forest Technologist:

Select one of the options below

- ○ I certify I personally completed the work described herein.
- ● I certify that the work described herein fulfills 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 Britsh Columbia Forest Professionals.

Name: Hiebert, Joshua **R.P.F./R.F.T. #:** 0556

Phone: (250)956-3123 **Fax:** **Registered Forest Technologist:** P

E-mail Address: JHIEBERT@LEMARE.CA

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

REFERENCE INFORMATION

Licensee Name: | **ECAS Status:** Received

Timber Mark	Timber Mark Cruise Vol. (m^3)	Primary Mark
TATVAC	36,376	P

Geographic Forest District: DNI - North Island - Central Coast Natural Resource District

Administrative Forest District: DNI - North Island - Central Coast Natural Resource District

TSA: 33 - Kingcome TSA | **File Type:** A06 - Timber Licence

TSB: 33A - Kingcome TSA Brooks Block | **NRFL Bonus Bid:** $/$m^3$

Major Centre Distance: 187 km | **POA Distance:** 329 km

Appraisal Type: ● New Appraisal ○ Reappraisal

Reappraisal Reason:

Appraisal Effective Date: 2015-04-17 | **Appraisal Expiry Date:**

Total Net Cruise Volume: 36376 m^3 | **Single Tree Selection Cruise Grades:** ☐

Single Tree Selection Volumes: 0 m^3 | **Is Second Growth Coniferous Volume >= 80% of Total Coniferous Volume:** ☐ 0%

Net Volume Second Growth Coniferous: 0 m^3 | **Total Coniferous Volume:** 36376 m^3

Sampling Error % (at 2 standard deviations): 10.7 %

Rate Calculation Method: ○CVP ● MPS

Volume by Species

Species	Volume (m^3)
Balsam	4173
Cedar	18044
Cypress	1400
Hemlock	12594
Spruce	165

Amendments Since Last Cruise Compilation

Block	Approval Date	Additions (ha)	Deletions (ha)
	Totals		

Initial Merchantable Area: (record to nearest 0.1 ha) 52.5 ha

Net Amendments: 0.0 ha

Total Merchantable Area: 52.5 ha

Appraisal Year	Area Logged (ha)
2015	0

OPERATING COST INFORMATION

Tree To Truck Cost Estimates

Average Side Slope: 57 %

CP Avg. Vol. / Log: 1.07 m^3

Conventional Logging

Cable Yarding:	36376 m^3
Ground Systems:	0 m^3
Skyline > 600m:	0 m^3
NHSVPH:	692.88 m^3 /ha

Helicopter Logging

Land Drop:	0 m^3
Water Drop:	0 m^3
Total Helicopter:	0 m^3
Heli Single Standing Stem Selection:	0 m^3
Heli Selection (excludes HSSSS):	0 m^3

Log Transportation Estimates

Truck Hauling

Average Truck Hauling Distance: 57.9 km (nearest 0.1 km)

Approved Road Use Charge: 0.00 $/$m^3$

Point of Appraisal: ALBE - Alberni

Water Transportation

Point of Origin: CLCK - Cleagh Creek

2nd Point Of Origin:

Administration and Other Estimates

Routine Road Management: ● Yes ○ No

The licensee incurs the Basic Silviculture Cost? ● Yes ○ No

Weighted Crew Transportation Distance: 57.9 km (nearest 0.1 km)

Is the Cutting Permit Accessible? ● Yes ○ No

OPERATING COST INFORMATION

Specified Operations

Description	Rate $/ m^3
Tree Crown Modification	1.57
COMMENTS:	

OPERATING COST INFORMATION

Road Development Check

Cut Block / Road Name	Station Start	Station End	Type	Road Section Partial Percent
LEC12	0	514	Road	
LEC12-1	0	389	Road	
LEC12-2	0	246	Road	
LEC2400	0	82	Road	
LEC2450	0	82	Road	
S1200	0	20	Road	
S1200	20	23	Road	
S1200	23	34	Road	
S1200	34	40	Road	
S1200	40	46	Road	
S1200	46	58	Road	
S1200	58	67	Road	
S1200	67	74	Road	
S1200	74	100	Road	
S1200	100	135	Road	
S1200	135	146	Road	
S1200	146	151	Road	
S1200	151	155	Road	
S1200	155	163	Road	
S1200	163	166	Road	
S1200	166	180	Road	
S1200	180	199	Road	
S1200	199	216	Road	
S1200	216	220	Road	
S1200	220	243	End Haul	100
S1200	243	249	Road	
S1200	249	260	Road	
S1200	260	291	Road	
S1200	291	311	End Haul	100
S1200	311	320	Road	
S1200	320	326	Road	
S1200	326	327	Road	
S1200	327	331	Bridge	0
S1200	331	342	Road	
S1200	340	343	Road	
S1200	343	347	Bridge	0
S1200	347	352	Road	
S1200	352	359	Road	
S1200	359	378	Road	
S1200	378	421	End Haul	100
S1200	421	427	Road	
S1200	427	435	Road	
S1200	435	443	Road	
S1200	443	474	End Haul	100
S1200	474	486	Road	
S1200	486	498	Road	
S1200	498	508	Road	
S1200	508	519	Road	
S1200	519	555	Road	

S1200	555	559	Road	
S1200	559	575	Road	
S1200	575	592	Road	
S1200	592	607	Road	
S1200	607	619	Road	
S1200	619	630	Road	
S1200	630	638	Road	
S1200	638	656	Road	
S1200	656	720	End Haul	100
S1200	720	736	Road	
S1200	736	740	Road	
S1200	740	741	Road	
S1200	741	749	Road	
S1200	749	770	End Haul	100
S1200	770	772	Road	
S1200	772	793	Road	
S1200	793	797	Road	
S1200	797	814	Road	
S1500	0	15	Road	
S1500	15	22	Road	
S1500	22	29	Road	
S1500	29	40	Road	
S1500	40	50	Road	
S1500	50	54	Road	
S1500	54	55	Road	
S1500	55	67	Road	
S1500	67	73	Road	
S1500	73	74	Road	
S1500	74	77	Road	
S1500	77	85	Road	
S1500	85	123	Road	
S1500	123	129	Road	
S1500	129	136	Road	
S1500	136	143	Road	
S1500	143	161	Road	
S1500	161	171	Road	
S1500	171	202	Road	
S1500	202	229	Road	
S1500	229	242	Road	
S1500	242	256	Road	
S1500	256	273	Road	
S1500	273	302	Road	
S1500	302	315	Road	
S1500	315	324	Road	
S1500	324	336	Road	
S1500	336	345	Road	
S1500	345	373	Road	
S1500	373	396	Road	
S1500	396	401	Road	
S1500	401	416	Road	
S1500	416	436	Road	
S1500	436	445	Road	
S1500	445	457	Road	
S1800	0	6	Road	
S1800	6	14	Road	
S1800	14	30	Road	

S1800	30	45	Road	
S1800	45	56	Road	
S1800	56	64	Road	
S1800	64	71	Road	
S1800	71	100	Road	
S1800	100	113	Road	
S1800	113	120	Road	
S1800	120	158	Road	
S700	0	19	Road	
S700	19	60	Road	
S700	60	68	Road	
S700	68	79	Road	
S700	79	93	Road	
S700	93	100	Road	
S700	100	120	Road	
S700	120	143	Road	
S700	143	160	Road	
S700	160	175	Road	
S700	175	180	Road	
S700	180	190	Road	
S700	190	195	Road	
S700	195	205	Road	
S700	205	216	Road	
S700	216	240	Road	
S700	240	266	Road	
S700	266	270	Road	
S700	270	276	Road	
S700	276	288	Road	
S700	288	308	Road	
S700	308	316	Road	
S700	316	336	Road	
S700	336	345	Road	
S700	345	350	Road	
SARAH MAIN	458	463	Road	
SARAH MAIN	463	478	Road	
SARAH MAIN	478	488	Road	
SARAH MAIN	488	496	Road	
SARAH MAIN	496	500	Road	
SARAH MAIN	500	520	Road	
SARAH MAIN	520	539	Road	
SARAH MAIN	539	545	Road	
SARAH MAIN	545	560	Road	
SARAH MAIN	560	591	Road	
SARAH MAIN	591	600	Road	
SARAH MAIN	600	602	Road	
SARAH MAIN	602	620	Road	
SARAH MAIN	620	669	Road	
SARAH MAIN	669	680	Road	
SARAH MAIN	680	693	Road	
SARAH MAIN	693	736	Road	
SARAH MAIN	736	739	Road	
SARAH MAIN	739	747	Road	
SARAH MAIN	747	765	Road	
SARAH MAIN	765	780	Road	
SARAH MAIN	780	800	Road	
SARAH MAIN	800	809	Road	

SARAH MAIN	809	814	Road	
SARAH MAIN	814	819	Bridge	0
SARAH MAIN	819	820	Road	
SARAH MAIN	820	822	Road	
SARAH MAIN	822	834	Road	
SARAH MAIN	834	849	Road	
SARAH MAIN	849	858	Road	
SARAH MAIN	858	866	Road	
SARAH MAIN	866	874	Road	
SARAH MAIN	874	899	Road	
SARAH MAIN	899	904	Road	
SARAH MAIN	904	915	Road	
SARAH MAIN	915	935	Road	
SARAH MAIN	935	939	Road	
SARAH MAIN	939	940	Road	
SARAH MAIN	940	946	Road	
SARAH MAIN	946	955	Road	
SARAH MAIN	955	958	Road	
SARAH MAIN	958	971	Road	
SARAH MAIN	971	978	Road	
SARAH MAIN	978	1006	Road	
SARAH MAIN	1006	1010	Road	
SARAH MAIN	1010	1018	Road	
SARAH MAIN	1018	1020	Road	
SARAH MAIN	1020	1035	Road	
SARAH MAIN	1035	1057	Road	
SARAH MAIN	1057	1097	Road	
SARAH MAIN	1097	1098	Road	
SARAH MAIN	1098	1151	Road	
SARAH MAIN	1151	1162	Road	
SARAH MAIN	1162	1167	Road	
SARAH MAIN	1167	1176	Road	
SARAH MAIN	1176	1185	Road	
SARAH MAIN	1185	1196	Road	
SARAH MAIN	1196	1204	Road	
SARAH MAIN	1204	1216	Road	
SARAH MAIN	1216	1224	Road	
SARAH MAIN	1224	1234	Road	
SARAH MAIN	1234	1249	Road	
SARAH MAIN	1249	1284	Road	
SARAH MAIN	1284	1289	Road	
SARAH MAIN	1289	1330	Road	
SARAH MAIN	1330	1336	Road	
SARAH MAIN	1336	1348	Road	
SARAH MAIN	1348	1356	Road	
SARAH MAIN	1356	1376	Road	
SARAH MAIN	1376	1387	Road	
SARAH MAIN	1387	1396	Road	
SARAH MAIN	1396	1416	Road	
SARAH MAIN	1416	1428	Road	
SARAH MAIN	1428	1449	Road	
SARAH MAIN	1449	1465	Road	
SARAH MAIN	1465	1476	Road	
SARAH MAIN	1476	1485	Road	
SARAH MAIN	1485	1488	Road	
SARAH MAIN	1488	1506	Road	

SARAH MAIN	1506	1512	Road	
SARAH MAIN	1512	1516	Road	
SARAH MAIN	1516	1548	Road	
SARAH MAIN	1548	1576	Road	
SARAH MAIN	1576	1596	Road	
SARAH MAIN	1596	1602	Road	
SARAH MAIN	1602	1650	Road	
SARAH MAIN	1650	1654	Bridge	0
SARAH MAIN	1654	1676	Road	
SARAH MAIN	1676	1701	Road	
SARAH MAIN	1701	1703	Road	
SARAH MAIN	1703	1707	Bridge	0
SARAH MAIN	1707	1736	Road	
SARAH MAIN	1736	1753	Road	
SARAH MAIN	1753	1776	Road	
SARAH MAIN	1776	1790	Road	
SARAH MAIN	1790	1802	Road	
SARAH MAIN	1802	1811	Road	
SARAH MAIN	1811	1816	Road	
SARAH MAIN	1816	1830	Road	
SARAH MAIN	1830	1835	Road	
SARAH MAIN	1835	1853	Road	
SARAH MAIN	1853	1856	Road	
SARAH MAIN	1856	1867	Road	
SARAH MAIN	1867	1873	Road	
SARAH MAIN	1873	1876	Road	
SARAH MAIN	1876	1880	Road	
SARAH MAIN	1880	1891	Road	
SARAH MAIN	1891	1895	Road	
SARAH MAIN	1895	1904	Road	
SARAH MAIN	1904	1908	Road	
SARAH MAIN	1908	1912	Bridge	0
SARAH MAIN	1912	1957	Road	
SARAH MAIN	1957	1967	Bridge	0
SARAH MAIN	1967	2002	Road	
SARAH MAIN	2002	2009	Road	
SARAH MAIN	2009	2015	Road	
SARAH MAIN	2015	2031	Road	
SARAH MAIN	2031	2035	Road	
SARAH MAIN	2035	2041	Road	
SARAH MAIN	2041	2052	Road	
SARAH MAIN	2052	2063	Road	
SARAH MAIN	2063	2075	Road	
SARAH MAIN	2075	2080	Road	
SARAH MAIN	2080	2121	Road	
SARAH MAIN	2121	2143	Road	
SARAH MAIN	2143	2175	Road	
SARAH MAIN	2175	2182	Road	
SARAH MAIN	2182	2191	Road	
SARAH MAIN	2191	2194	Road	
SARAH MAIN	2194	2202	Road	
SARAH MAIN	2202	2213	Road	
SARAH MAIN	2213	2217	Road	
SARAH MAIN	2217	2305	Road	
SARAH MAIN	2305	2310	Road	
SARAH MAIN	2310	2333	Road	

SARAH MAIN	2333	2344	Road	
SARAH MAIN	2344	2351	Road	
SARAH MAIN	2351	2354	Road	
SARAH MAIN	2354	2358	Road	
SARAH MAIN	2358	2370	Road	
SARAH MAIN	2370	2379	Road	
SARAH MAIN	2379	2406	Road	
SARAH MAIN	2406	2411	Road	
SARAH MAIN	2411	2427	Road	
SARAH MAIN	2427	2433	Road	
SARAH MAIN	2433	2434	Road	
SARAH MAIN	2434	2444	Road	
SARAH MAIN	2444	2462	Road	
SARAH MAIN	2462	2473	Road	
SARAH MAIN	2473	2477	Road	
SARAH MAIN	2477	2498	Road	
SARAH MAIN	2498	2504	Road	
SARAH MAIN	2504	2513	Road	
SARAH MAIN	2513	2564	Road	
SARAH MAIN	2564	2573	Road	
SARAH MAIN	2573	2593	Road	
SARAH MAIN	2593	2630	Road	
SARAH MAIN	2630	2652	Road	
SARAH MAIN	2652	2664	Road	
SARAH MAIN	2664	2673	Road	
SARAH MAIN	2673	2690	Road	
SARAH MAIN	2690	2704	Road	
SARAH MAIN	2704	2731	Road	
SARAH MAIN	2731	2733	Road	
SARAH MAIN	2733	2753	Road	
SARAH MAIN	2753	2770	Road	
SARAH MAIN	2770	2776	Road	
SARAH MAIN	2776	2790	Road	
SARAH MAIN	2790	2813	Road	
SARAH MAIN	2813	2815	Road	
SARAH MAIN	2815	2827	Road	
SARAH MAIN	2827	2833	Road	
SARAH MAIN	2833	2838	Road	
SARAH MAIN	2838	2851	Road	
SARAH MAIN	2851	2860	Road	
SARAH MAIN	2860	2868	Road	
SARAH MAIN	2868	2873	Road	
SARAH MAIN	2873	2905	Road	
SARAH MAIN	2905	2913	Road	
SARAH MAIN	2913	2928	Road	
SARAH MAIN	2928	2933	Road	
SARAH MAIN	2933	2965	Road	
SARAH MAIN	2965	3004	Road	
SARAH MAIN	3004	3022	Road	
SARAH MAIN	3022	3045	Road	
SARAH MAIN	3045	3081	Road	
SARAH MAIN	3081	3101	Road	
SARAH MAIN	3101	3113	Road	
SARAH MAIN	3113	3133	Road	
SARAH MAIN	3133	3151	Road	
SARAH MAIN	3151	3153	Road	

SARAH MAIN	3153	3188	Road	
SARAH MAIN	3188	3204	Road	
SARAH MAIN	3204	3213	Road	
SARAH MAIN	3213	3222	Road	
SARAH MAIN	3222	3248	Road	

OPERATING COST INFORMATION

Development Cost - Culverts (Metal)

Circular Type		Crown %	Amortized %	Appraisal Year
Diameter	Total Length For Diameter			

Development Cost - Culverts (Wooden)

Number	Crown %	Amortized %	Appraisal Year	Unit Cost ($/Unit)
38	100	100	2015	1000

OPERATING COST INFORMATION

Appraised Roads

Road Name
LEC MAIN
LEC12
LEC12-1
LEC12-2
LEC2400
LEC2450
S1200
S1500
S1800
S700
SARAH MAIN

OPERATING COST INFORMATION

Development Cost - New Construction Detailed Engineering

Cost Estimate Identifier	Road Length (km)	Crown %	Amortized %	Total Cost ($)	Appraisal Year	Comments
1	0.700	100	100	288436	2015	Extended Road Ammortizati
EH	0.202	100	100	44768	2015	

Total for 2015: 0.902 km $ 333204

Total Cost New Construction: $ 333204

Development Cost - Reconstruction & Replacement Detailed Engineering

Cost Estimate Identifier	Road Length (km)	Crown %	Amortized %	Total Cost ($)	Appraisal Year	Comments

Total for : km $

Total Cost Reconstruction & Replacement: $

CONTROL

Forest District

TOA Eligible:	❍ Yes ❍ No
Was the Appraisal Data Field Checked:	❍ Yes ● No
Was the CP Check Cruised:	❍ Yes ● No
Appraisal Data Submission Has Been Validated Against FTA:	P

Data Submission Reviewed By	Email	Date Submitted	Date Received
Connon, Hugh	hugh.connon@gov.bc.ca	2015-05-18	2015-05-19

Forest Region

Adjust Quarterly:	❍ Yes ❍ No
TOA Miscellaneous Cost:	
MPS/CVP Differential:	_____ $/m

Reviewed By	Email	Date Sent To Region	Date Transferred To GAS	ECAS Status
				RCD

CUTTING AUTHORITY DETAIL

Weighted Haul Distance: 57.9

Weighted Crew Transportation Distance: 57.9

Point of Appraisal: ALBE - Alberni

Cutblock #	Harvest Method	Volume (m3)	Point of Origin		Appraisal Log Dump	Other Log Dump	Truck Haul Distance (km)	Crew Transportation		Accessible / Isolated	Road Management	Major Centre	
			1	2				Distance (km)	Marshall Point			Major Centre	Distance (km)
LEC4	CY	20697	Cleagh Creek		MAHA		58.0	58.0	Mahatta	A	Yes	Campbell River	178
LEC6	CY	15679	Cleagh Creek		MAHA		57.7	57.7	57.7	A	Yes	Campbell River	200

OPERATING COST INFORMATION

Development Cost - Bridges

Type	Road Name	Stn #		Bridge Type	Crib Height (m)	Span Length (m)	Crown %	Amortized %	Appraisal Year	Bridge Built?
		Start	End							
N	S1200	327	331	L - Log	1	4	100	100	2015	☐
N	S1200	343	347	L - Log	1	4	100	100	2015	☐
N	SARAH MAIN	814	819	L - Log	1	5	100	100	2015	☐
N	SARAH MAIN	1650	1654	L - Log	1	4	100	100	2015	☐
N	SARAH MAIN	1703	1707	L - Log	1	4	100	100	2015	☐
N	SARAH MAIN	1908	1912	L - Log	2	4	100	100	2015	☐
N	SARAH MAIN	1957	1967	L - Log	2	10	100	100	2015	☐

OPERATING COST INFORMATION

Development Cost - Tabular Roads

Identity				Subgrade						
	Station #									
Road Name	Start	End	Section Length (km)	Bank Height Category	RMC	Appraisal Year	Crown %	Amortized %	Section Built?	
LEC12	0	514	0.514	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
LEC12-1	0	389	0.389	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
LEC12-2	0	246	0.246	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
LEC2400	0	82	0.082	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
LEC2450	0	82	0.082	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1200	0	20	0.020	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
S1200	20	23	0.003	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1200	23	34	0.011	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S1200	34	40	0.006	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
S1200	40	46	0.006	XXRK - Double Extra Heavy Rock - Rock Face 6.01 to 7.5m	S - Soft	2015	100	100	☐	
S1200	46	58	0.012	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1200	58	67	0.009	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S1200	67	74	0.007	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
S1200	74	100	0.026	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1200	100	135	0.035	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S1200	135	146	0.011	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
S1200	146	151	0.005	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1200	151	155	0.004	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
S1200	155	163	0.008	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1200	163	166	0.003	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S1200	166	180	0.014	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1200	180	199	0.019	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S1200	199	216	0.017	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1200	216	220	0.004	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
S1200	243	249	0.006	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
S1200	249	260	0.011	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S1200	260	291	0.031	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
S1200	311	320	0.009	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
S1200	320	326	0.006	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	

S1200	326	327	0.001	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1200	331	342	0.011	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S1200	340	343	0.003	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1200	347	352	0.005	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S1200	352	359	0.007	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1200	359	378	0.019	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S1200	421	427	0.006	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
S1200	427	435	0.008	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1200	435	443	0.008	XXRK - Double Extra Heavy Rock - Rock Face 6.01 to 7.5m	S - Soft	2015	100	100	☐	
S1200	474	486	0.012	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S1200	486	498	0.012	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1200	498	508	0.010	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S1200	508	519	0.011	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
S1200	519	555	0.036	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S1200	555	559	0.004	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1200	559	575	0.016	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
S1200	575	592	0.017	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S1200	592	607	0.015	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
S1200	607	619	0.012	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
S1200	619	630	0.011	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S1200	630	638	0.008	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
S1200	638	656	0.018	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
S1200	720	736	0.016	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
S1200	736	740	0.004	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
S1200	740	741	0.001	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
S1200	741	749	0.008	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
S1200	770	772	0.002	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
S1200	772	793	0.021	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1200	793	797	0.004	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S1200	797	814	0.017	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
S1500	0	15	0.015	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
S1500	15	22	0.007	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S1500	22	29	0.007	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
S1500	29	40	0.011	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
S1500	40	50	0.010	XXRK - Double Extra Heavy Rock - Rock Face 6.01 to 7.5m	S - Soft	2015	100	100	☐	
S1500	50	54	0.004	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
S1500	54	55	0.001	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
S1500	55	67	0.012	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
S1500	67	73	0.006	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
S1500	73	74	0.001	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S1500	74	77	0.003	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	

S1500	77	85	0.008	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
S1500	85	123	0.038	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1500	123	129	0.006	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
S1500	129	136	0.007	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1500	136	143	0.007	XXRK - Double Extra Heavy Rock - Rock Face 6.01 to 7.5m	S - Soft	2015	100	100	☐	
S1500	143	161	0.018	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
S1500	161	171	0.010	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S1500	171	202	0.031	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1500	202	229	0.027	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S1500	229	242	0.013	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
S1500	242	256	0.014	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
S1500	256	273	0.017	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
S1500	273	302	0.029	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
S1500	302	315	0.013	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
S1500	315	324	0.009	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1500	324	336	0.012	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S1500	336	345	0.009	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
S1500	345	373	0.028	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1500	373	396	0.023	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
S1500	396	401	0.005	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1500	401	416	0.015	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
S1500	416	436	0.020	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1500	436	445	0.009	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
S1500	445	457	0.012	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
S1800	0	6	0.006	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1800	6	14	0.008	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S1800	14	30	0.016	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1800	30	45	0.015	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
S1800	45	56	0.011	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1800	56	64	0.008	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S1800	64	71	0.007	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1800	71	100	0.029	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
S1800	100	113	0.013	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S1800	113	120	0.007	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
S1800	120	158	0.038	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S700	0	19	0.019	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
S700	19	60	0.041	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S700	60	68	0.008	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S700	68	79	0.011	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
S700	79	93	0.014	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S700	93	100	0.007	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	

S700	100	120	0.020	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S700	120	143	0.023	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S700	143	160	0.017	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S700	160	175	0.015	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S700	175	180	0.005	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S700	180	190	0.010	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
S700	190	195	0.005	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
S700	195	205	0.010	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
S700	205	216	0.011	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
S700	216	240	0.024	XXRK - Double Extra Heavy Rock - Rock Face 6.01 to 7.5m	S - Soft	2015	100	100	☐	
S700	240	266	0.026	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
S700	266	270	0.004	XXRK - Double Extra Heavy Rock - Rock Face 6.01 to 7.5m	S - Soft	2015	100	100	☐	
S700	270	276	0.006	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
S700	276	288	0.012	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
S700	288	308	0.020	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
S700	308	316	0.008	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
S700	316	336	0.020	XXRK - Double Extra Heavy Rock - Rock Face 6.01 to 7.5m	S - Soft	2015	100	100	☐	
S700	336	345	0.009	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
S700	345	350	0.005	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	458	463	0.005	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	463	478	0.015	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	478	488	0.010	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	488	496	0.008	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	496	500	0.004	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	500	520	0.020	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	520	539	0.019	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	539	545	0.006	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	545	560	0.015	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	560	591	0.031	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	591	600	0.009	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	600	602	0.002	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	602	620	0.018	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	620	669	0.049	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	669	680	0.011	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	680	693	0.013	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	693	736	0.043	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	736	739	0.003	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	739	747	0.008	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	747	765	0.018	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	765	780	0.015	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	780	800	0.020	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	

SARAH MAIN	800	809	0.009	XXRK - Double Extra Heavy Rock - Rock Face 6.01 to 7.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	809	814	0.005	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
SARAH MAIN	819	820	0.001	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	820	822	0.002	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	822	834	0.012	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	834	849	0.015	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
SARAH MAIN	849	858	0.009	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	858	866	0.008	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
SARAH MAIN	866	874	0.008	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	874	899	0.025	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	899	904	0.005	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	904	915	0.011	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
SARAH MAIN	915	935	0.020	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	935	939	0.004	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	939	940	0.001	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
SARAH MAIN	940	946	0.006	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	946	955	0.009	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	955	958	0.003	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	958	971	0.013	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	971	978	0.007	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	978	1006	0.028	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	1006	1010	0.004	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1010	1018	0.008	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1018	1020	0.002	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
SARAH MAIN	1020	1035	0.015	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1035	1057	0.022	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
SARAH MAIN	1057	1097	0.040	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1097	1098	0.001	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	1098	1151	0.053	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1151	1162	0.011	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1162	1167	0.005	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	1167	1176	0.009	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
SARAH MAIN	1176	1185	0.009	XXRK - Double Extra Heavy Rock - Rock Face 6.01 to 7.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1185	1196	0.011	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
SARAH MAIN	1196	1204	0.008	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	1204	1216	0.012	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1216	1224	0.008	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1224	1234	0.010	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	1234	1249	0.015	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	1249	1284	0.035	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1284	1289	0.005	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	

SARAH MAIN	1289	1330	0.041	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	1330	1336	0.006	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1336	1348	0.012	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	1348	1356	0.008	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1356	1376	0.020	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	1376	1387	0.011	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	1387	1396	0.009	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1396	1416	0.020	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	1416	1428	0.012	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1428	1449	0.021	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	1449	1465	0.016	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1465	1476	0.011	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	1476	1485	0.009	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1485	1488	0.003	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	1488	1506	0.018	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1506	1512	0.006	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	1512	1516	0.004	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1516	1548	0.032	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	1548	1576	0.028	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1576	1596	0.020	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	1596	1602	0.006	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1602	1650	0.048	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	1654	1676	0.022	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1676	1701	0.025	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	1701	1703	0.002	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1707	1736	0.029	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	1736	1753	0.017	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1753	1776	0.023	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	1776	1790	0.014	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1790	1802	0.012	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	1802	1811	0.009	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1811	1816	0.005	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	1816	1830	0.014	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1830	1835	0.005	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1835	1853	0.018	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1853	1856	0.003	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1856	1867	0.011	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	1867	1873	0.006	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1873	1876	0.003	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	1876	1880	0.004	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1880	1891	0.011	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	

SARAH MAIN	1891	1895	0.004	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	1895	1904	0.009	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
SARAH MAIN	1904	1908	0.004	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	1912	1957	0.045	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	1967	2002	0.035	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	2002	2009	0.007	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	2009	2015	0.006	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2015	2031	0.016	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
SARAH MAIN	2031	2035	0.004	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	2035	2041	0.006	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2041	2052	0.011	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	2052	2063	0.011	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2063	2075	0.012	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	2075	2080	0.005	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2080	2121	0.041	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	2121	2143	0.022	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2143	2175	0.032	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	2175	2182	0.007	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2182	2191	0.009	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	2191	2194	0.003	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2194	2202	0.008	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	2202	2213	0.011	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
SARAH MAIN	2213	2217	0.004	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	2217	2305	0.088	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2305	2310	0.005	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	2310	2333	0.023	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2333	2344	0.011	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	2344	2351	0.007	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2351	2354	0.003	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	2354	2358	0.004	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2358	2370	0.012	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	2370	2379	0.009	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2379	2406	0.027	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	2406	2411	0.005	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	2411	2427	0.016	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
SARAH MAIN	2427	2433	0.006	XXRK - Double Extra Heavy Rock - Rock Face 6.01 to 7.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2433	2434	0.001	XXRK - Double Extra Heavy Rock - Rock Face 6.01 to 7.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2434	2444	0.010	XXRK - Double Extra Heavy Rock - Rock Face 6.01 to 7.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2444	2462	0.018	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2462	2473	0.011	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	2473	2477	0.004	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	

SARAH MAIN	2477	2498	0.021	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	2498	2504	0.006	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2504	2513	0.009	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	2513	2564	0.051	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2564	2573	0.009	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	2573	2593	0.020	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2593	2630	0.037	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	2630	2652	0.022	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2652	2664	0.012	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	2664	2673	0.009	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2673	2690	0.017	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	2690	2704	0.014	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	2704	2731	0.027	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2731	2733	0.002	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2733	2753	0.020	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	2753	2770	0.017	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2770	2776	0.006	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2776	2790	0.014	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	2790	2813	0.023	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	2813	2815	0.002	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2815	2827	0.012	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	2827	2833	0.006	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	2833	2838	0.005	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	2838	2851	0.013	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	2851	2860	0.009	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	2860	2868	0.008	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	2868	2873	0.005	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2873	2905	0.032	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	2905	2913	0.008	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2913	2928	0.015	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	2928	2933	0.005	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	2933	2965	0.032	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	2965	3004	0.039	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	3004	3022	0.018	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	3022	3045	0.023	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	3045	3081	0.036	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	3081	3101	0.020	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	3101	3113	0.012	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	3113	3133	0.020	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	3133	3151	0.018	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	3151	3153	0.002	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	

SARAH MAIN	3153	3188	0.035	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
SARAH MAIN	3188	3204	0.016	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	3204	3213	0.009	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
SARAH MAIN	3213	3222	0.009	TOE - Toe Rock - Rock Face 0.01 to 1.5m	S - Soft	2015	100	100	☐	
SARAH MAIN	3222	3248	0.026	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	

Total for 2015 : 5.647 km

Tabular Road Total: 5.647 km

OPERATING COST INFORMATION

Development Cost - Road Reconstruction

Case	Road Name	Start	End	Section Length	Subgrade					Surfacing						Total Cost for Section	Appraisal Year	Crown %	Amortization %	Section Built
					Rem. Road Width	Construction Category	Uphill Side Slope %	Material Type	Cost per km	Required	Depth	Haul Distance	Pit Location	Material Type	Cost per km					
										☐										☐

Total for : _____

Ecas ID: 67386 Primary Timber Mark: TATVAC Appraisal Effective Date: 2015-04-17
Printed Date: 2015-05-20 1:43:20PM

OPERATING COST INFORMATION

Development Cost - End Haul

Type	Case	Road Name	Start	End	Section Length (km)	Subgrade							Surfacing					Partial %	Crown %	Amortized %	Total Cost for Section	Appraisal Year	Section Built
						Construction Category	Uphill Side Slope %	Material Type	Spoil Location	Haul Distance (km)	Total End Haul Volume (m3)	Total Cost End Haul ($/km)	Surfacing	Material Type	Pit Location	Haul Distance (km)	Total Cost / km ($/km)						
N	EH	S1200	220	243	0.023	5	50	S	S1200 0+000	0.21	415	243870	☐					100	100	100	5609	2015	☐
N	EH	S1200	291	311	0.020	5	90	S	S1200 0+000	0.28	341	231350	☐					100	100	100	4627	2015	☐
N	EH	S1200	378	421	0.043	5	65	S	S1200 0+000	0.00	616	0	☐					100	100	100	0	2015	☐
N	EH	S1200	443	474	0.031	5	50	S	S1200 0+000	0.43	428	188968	☐					100	100	100	5858	2015	☐
N	EH	S1200	656	720	0.064	6	100	S	S1200 0+000	0.67	1709	392891	☐					100	100	100	25145	2015	☐
N	EH	S1200	749	770	0.021	5	60	S	S1200 0+000	0.74	253	168048	☐					100	100	100	3529	2015	☐
			Total for 2015:		0.202																44768		
			Total:		0.202																44768		

SELLING PRICE INFORMATION

Grade %

Species	Peeler		Lumber				Sawlog			Shingle			Util.		Chip	Total Net Cruise Volume by Species	Grade Source Level
	B	C	D	E	F	G	H	I	J	K	L	M	U	X	Y		
Balsam																4173	
Cedar																18044	
Cypress																1400	
Hemlock																12594	
Spruce																165	

Selling Price Zone:

TOTAL NET CRUISE VOLUME: 36376

Second growth: ☐

Single Tree Selection Cruise Volume: ☐

TSA: 33 - Kingcome TSA

TSB: 33A - Kingcome TSA Brooks Block

Applicable Volume (m^3)	Appraisal Year	Area Unlogged (ha)
	2015	52.5

ATTACHMENTS

If submitting attachments as a single zip file, submit below.
Please check off below what attachments are contained in the zip file.

Attach File:

- ☐ Appraisal Map
- ☐ Approved Request for a Approval of a Road Use Charge

Specified Operations:

- ☐ A-frame Logging
- ☐ Blowdown Timber
- ☐ Single Tree Selection
- ☐ Group Selection
- ☐ Skyline Logging
- ☐ Lake Transportation
- ☐ Skidder Swing
- ☐ Towing to Tie-up Grounds
- ☐ Camp Move
- ☐ Destumping
- ☐ Tree Crown Modification
- ☐ Culvert Worksheet

Detailed Engineering

- ☐ Bridge Repairs
- ☐ Construction Estimate Form #1
- ☐ Construction Estimate Form #2
- ☐ Construction Estimate Form #3
- ☐ Construction Estimate Form #4
- ☐ Construction Estimate Form #5
- ☐ Greater than 5 Construction Estimate Forms

Cruise

- ☐ Cruise Compilation (.txt or .dat in ascii format for original & reduction data)
- ☐ Cruise Analysis Form (District Staff Only)
- ☐ Tenure Info. (District Staff Only)
- ☐ BC Timber Sales (FS 574) (BSTC Staff Only)
- ☐ Extended Road Amortization
- ☐ Miscellaneous

If attaching individually, submit below.

	Electronic (Attached)	Paper Copy To Follow	NA	Attachment
Appraisal Map	❍	❍	●	
Approved Request for a Approval of a Road Use Charge	❍	❍	●	
Specified Operation				
A-frame Logging	❍	❍	●	
Blowdown Timber	❍	❍	●	
Single-Tree Selection	❍	❍	●	
Group Selection	❍	❍	●	
Skyline Logging	❍	❍	●	
Lake Transportation	❍	❍	●	
Skidder Swing	❍	❍	●	
Towing To Tie-up Grounds	❍	❍	●	
Camp Move	❍	❍	●	
Destumping	❍	❍	●	
Tree Crown Modification	❍	❍	●	
Culvert Worksheet	❍	❍	●	
Detailed Engineering				
Bridge Repairs	❍	❍	●	
Construction Estimate Form #1	❍	❍	●	
Construction Estimate Form #2	❍	❍	●	
Construction Estimate Form #3	❍	❍	●	
Construction Estimate Form #4	❍	❍	●	
Construction Estimate Form #5	❍	❍	●	
If there are more than 5 CEF's please attach the remainder as a ZIP file	❍	❍	●	
Engineering info to Support Detailed Engineering	❍	❍	●	
Extended Road Amortization	●	❍	❍	FS1423_Road Ammortization Agreement_06May2015_signed.pdf
Cruise				
Cruise Compilation (.txt or .dat in ascii format for original & reduction data)	❍	❍	●	
Cruise Analysis Form (District Staff Only)	❍	❍	●	
Tenure Info. (District Staff Only)	❍	❍	●	
BC Timber Sales (FS 574) (BCTS Staff Only)	❍	❍	●	
Miscellaneous				
cruise data	●	❍	❍	Cruise Data.zip
ECAS Data	●	❍	❍	ECAS DATA.zip
End Haul Data	●	❍	❍	End Haul Data.zip
Terrrain data	●	❍	❍	Terrain Info.zip
	❍	❍	●	

Verbrugge, Cheryl FLNR:EX

From: Birrell, Steve A FLNR:EX
Sent: Thursday, August 20, 2015 8:22 AM
To: Josh Hiebert
Cc: Elliott, Terry C FLNR:EX; Connon, Hugh J FLNR:EX; Mathieu, Phil FLNR:EX
Subject: RE: ECAS 72255 LEC10 End Haul

OK, it is coming your way.

From: Josh Hiebert [mailto:jhiebert@lemare.ca]
Sent: Wednesday, August 19, 2015 4:36 PM
To: Birrell, Steve A FLNR:EX
Subject: RE: ECAS 72255 LEC10 End Haul

Thanks steve. Please return at your convenience

From: Birrell, Steve A FLNR:EX [mailto:Steve.Birrell@gov.bc.ca]
Sent: August-19-15 12:08 PM
To: Josh Hiebert <jhiebert@lemare.ca>
Subject: RE: ECAS 72255 LEC10 End Haul

Hi Josh, the new EH data is acceptable but you will have to rework what's in ECAS regarding the Spoil locations, haul distances and the EH Volumes. Note: the EH section from 2+938 to 2+978 is missing the first station on Page 2 of 2 and the volume (11.9 m3).

From: Josh Hiebert [mailto:jhiebert@lemare.ca]
Sent: Tuesday, August 18, 2015 12:02 PM
To: Birrell, Steve A FLNR:EX
Subject: FW: ECAS 72255 LEC10 End Haul

Good Afternoon Steve
Please find the attached REVISED End haul data for Branch 60 in LEC10
Let me know if you need anything else and please send back so I can clarify

Thanks

From: Mario Cottone [mailto:mario.cottone@snrc.ca]
Sent: August-18-15 11:55 AM
To: Josh Hiebert <jhiebert@lemare.ca>
Subject: Re: EC50/LEC10 End Haul

Please see attached pdfs for amended Branch 60 profiles, end haul sections, and Tab Road Cat.

On Mon, Aug 17, 2015 at 6:13 AM, Josh Hiebert <jhiebert@lemare.ca> wrote:

> Please adjust the end haul and road designs by -42m from the beginning so that road matches FTA

Joshua Hiebert, RFT, ATC

Planning Manager

LEMARE

3341 Mine Road – PO Box 609

Port McNeill, B.C., Canada V0N 2R0

Telephone: (250) 956-3123

Cell: (250) 902-8991

Fax: (250) 956-4888

Email: jhiebert@lemare.ca

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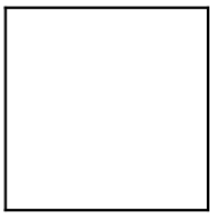
--

Mario Cottone
Development Technician

Strategic Natural Resource Consultants Inc.
T: 250.287.2246 ext 175
W: www.snrc.ca



LIONS GATE
FOREST PRODUCTS LTD

Andrew Ashford, District Manager
Ministry of Forests, Lands and Natural resources
North Island Central Coast District
2217 Mine Road, PO Box 7000
Port McNeill, BC
V0N 2R0

April 21, 2015

REFERENCE: CUTTING PERMIT APPLICATION – T0629 CP 'AB'

Lions Gate Forest Products Ltd (LGFP) makes application for Cutting Permit (CP) 'AB'.

This CP application is comprised of 2 cut-blocks (LEC4 and LEC6) located in the East Creek Drainage.

The cut-blocks contained in this application are included in the Lemare Lions Gate FSP. The cut-blocks are entirely contained within T0629.

LGFP has notified the Quatsino and had a full information sharing session with Ralph Wallas, his team and Kathy DesRochers on May 14, 2014 regarding our plans for this area. During our information sharing it was determined that no Archaeological assessment would be required for the block LEC6 and a PFR was completed for LEC4 s.18 s.18 and the Quatsino had no further concerns with our plans. During the engineering and field work there were no heritage features or archaeological important features identified within our proposed cut blocks or along our roads in LEC6.

The roads required to access these blocks are approved under road permit R17089, and/or pending approval.

Included in this CP application are the following attachments (attached in ECAS):

- 1 copy of the signed CP application (this letter);
- 1:5,000 scale Appraisal Map(s);
- 1:5,000 scale Cruise Map(s);
- Cruise DAT Files;
- Cruise Compilations;
- 1:5,000 scale Road Construction Map;
- 1:5,000 scale Plot Map;

PO Box 1700.

Port McNeill, BC V0N 2R0

TEL (250) 956-3123 FAX (250) 956-4888 Email: office@lemare.ca

- Notification to First Nations (Quatsino) of intent to construct new roads and harvest cut-blocks within T0629;

Please note, all the above attachments were submitted into ECAS. The electronic submissions associated with this application are:

- ECAS id/submission # 67386
- ESF id/submission # 1410895

Please send the approval to Lions Gate Forest Products Ltd. Attention: Josh Hiebert

For further information, please contact the undersigned.

Regards,

Joshua Hiebert, RFT, ATC
Planning Manager
LIONS GATE FOREST PRODUCTS LTD.
3341 Mine Road – PO Box 1700
Port McNeill, B.C., Canada V0N 2R0
Telephone: (250) 956-3123
Fax: (250) 956-4888
Email: jhiebert@lemare.ca

Verbrugge, Cheryl FLNR:EX

From: Schofield, Cyndi FLNR:EX
Sent: Monday, June 22, 2015 2:31 PM
To: Colleen Styan
Cc: Elliott, Terry C FLNR:EX; Connon, Hugh J FLNR:EX
Subject: RE: T0629, CP AC - Cutblock LEC4, FTA Exhibit A and Appraisal Map
Attachments: LEC4 Appraisal Map 2015May14.pdf

Hi Colleen:
I have been asked to reject this cutting permit.
The spatial information for Cutblock LEC4 is not matching the Appraisal Map. The difference is, the spatial is larger by .6 ha.
I am attaching the Appraisal Map so you can see the difference.

From: Connon, Hugh J FLNR:EX
Sent: Monday, June 22, 2015 2:20 PM
To: Schofield, Cyndi FLNR:EX
Cc: Elliott, Terry C FLNR:EX
Subject: T0629, CP AC - Cutblock LEC4, FTA Exhibit A and Appraisal Map

Hello Cyndi, please reject the FTA spatial data for Cutblock LEC4 as it does not match the appraisal map. There is a small portion at the northeastern boundary near Falling Corners 10, (11), 12 and 13 that should be removed from the Exhibit A to match the appraisal map.

Hugh Connon, RFT
Resource Technician
Ministry of Forests, Lands & Natural Resource Operations
Government of British Columbia
Phone: (250) 956-5117
Email: Hugh.Connon@gems4.gov.bc.ca

Verbrugge, Cheryl FLNR:EX

From: Josh Hiebert <jhiebert@lemare.ca>
Sent: Monday, March 23, 2015 2:44 PM
To: Birrell, Steve A FLNR:EX
Cc: Connon, Hugh J FLNR:EX
Subject: RE: T0629 CP'AB'
Attachments: CEF2_Klaskino FSR_2014_09March2014.doc; HarrisMain_0+179to0+264_ENDHAUL.pdf

Good Afternoon Steve
Please see attached CEF forms updated along with End Haul change
I have also updated ECAS 39 end haul volume for this section of road

---

From: Birrell, Steve A FLNR:EX [mailto:Steve.Birrell@gov.bc.ca]
Sent: March-23-15 2:30 PM
To: Josh Hiebert
Cc: Connon, Hugh J FLNR:EX
Subject: RE: T0629 CP'AB'

Hi Josh, the EH on Harris Main has a volume of 1284.5m3 as calculated on the Volume spreadsheet. My guess is that the 1607m3 being claimed is a Typo. On the CEF#2 check the math for the Rock Drill (156 x $243.60) and the Dump Truck (473.5 x $175.69) before you resubmit.

Steve

From: Josh Hiebert [mailto:jhiebert@lemare.ca]
Sent: Monday, March 23, 2015 9:17 AM
To: Mathieu, Phil FLNR:EX; Birrell, Steve A FLNR:EX; Connon, Hugh J FLNR:EX
Subject: FW: T0629 CP'AB'

Good Morning
ECAS has been down since Thursday as far as attaching documents. So please find the attached folder with what will be included once ECAS is running properly again.

I have removed the bridge @ sta. 0+331 on LEC64
Metal culverts on LEC6 and 9 maps changed to WBC to match culvert worksheet
LEC2 – Plot 42, dropped plot – Map updated
LEC6 – Area change rationale
LEC9 – direction of travel added to map
CEF#2 – updated
Harris Main EH – missing x-sections added

Please let me know if you have any questions,

From: Josh Hiebert [mailto:jhiebert@lemare.ca]
Sent: March-23-15 8:54 AM
To: Phil.Mathieu@gov.bc.ca
Cc: 'Connon, Hugh J FLNR:EX'; Birrell, Steve A FLNR:EX
Subject: T0629 CP'AB'

Good Morning
ECAS has been down since Thursday as far as attaching documents. So please find the attached folder with what will be included once ECAS is running properly again.

I have removed the bridge @ sta. 0+331 on LEC64
Metal culverts on LEC6 and 9 maps changed to WBC to match culvert worksheet
LEC2 – Plot 42, dropped plot – Map updated
LEC6 – Area change rationale
LEC9 – direction of travel added to map
CEF#2 – updated
Harris Main EH – missing x-sections added

Please let me know if you have any questions,

Joshua Hiebert, RFT, ATC
Planning Manager
LEMARE

3341 Mine Road – PO Box 609
Port McNeill, B.C., Canada V0N 2R0
Telephone: (250) 956-3123
Cell: (250) 902-8991
Fax: (250) 956-4888
Email: jhiebert@lemare.ca

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LIONS GATE FOREST PRODUCTS LTD

LOCATION: Lower East Creek
BLOCK NAME: LEC11
ROAD NAME: Harris Main
DRAWN BY: M. Cottone
DATE: 2015-02-18

Possible
FULL BENCH ENDHAUL:

0+179 to 0+264

Cut Volume Total = 1606.8
Fill Volume Total =0.0
EH = 100%

Average Uphill Sideslope = 47%
Construction Category = CC5

***Note - Road grade crosses through mutliple draws within prescribed section of Full Bench Endhaul and require fill. Fill volumes will consist of controlled placement of coarse, angular rock and have not been included in endhaul calculations.**

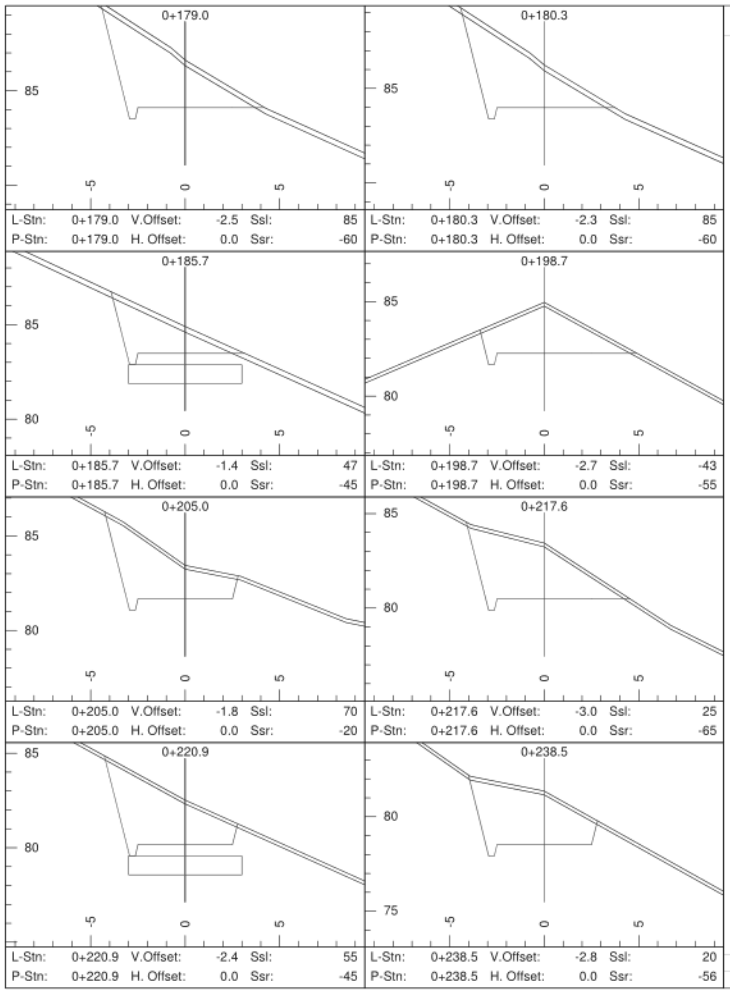
Profile Vert Scale 1:200
Profile Horiz. Scale 1:2000

LEGEND

- Profile Topography
- Design Grade
- Profile Culverts

STRATEGIC

15/02/18

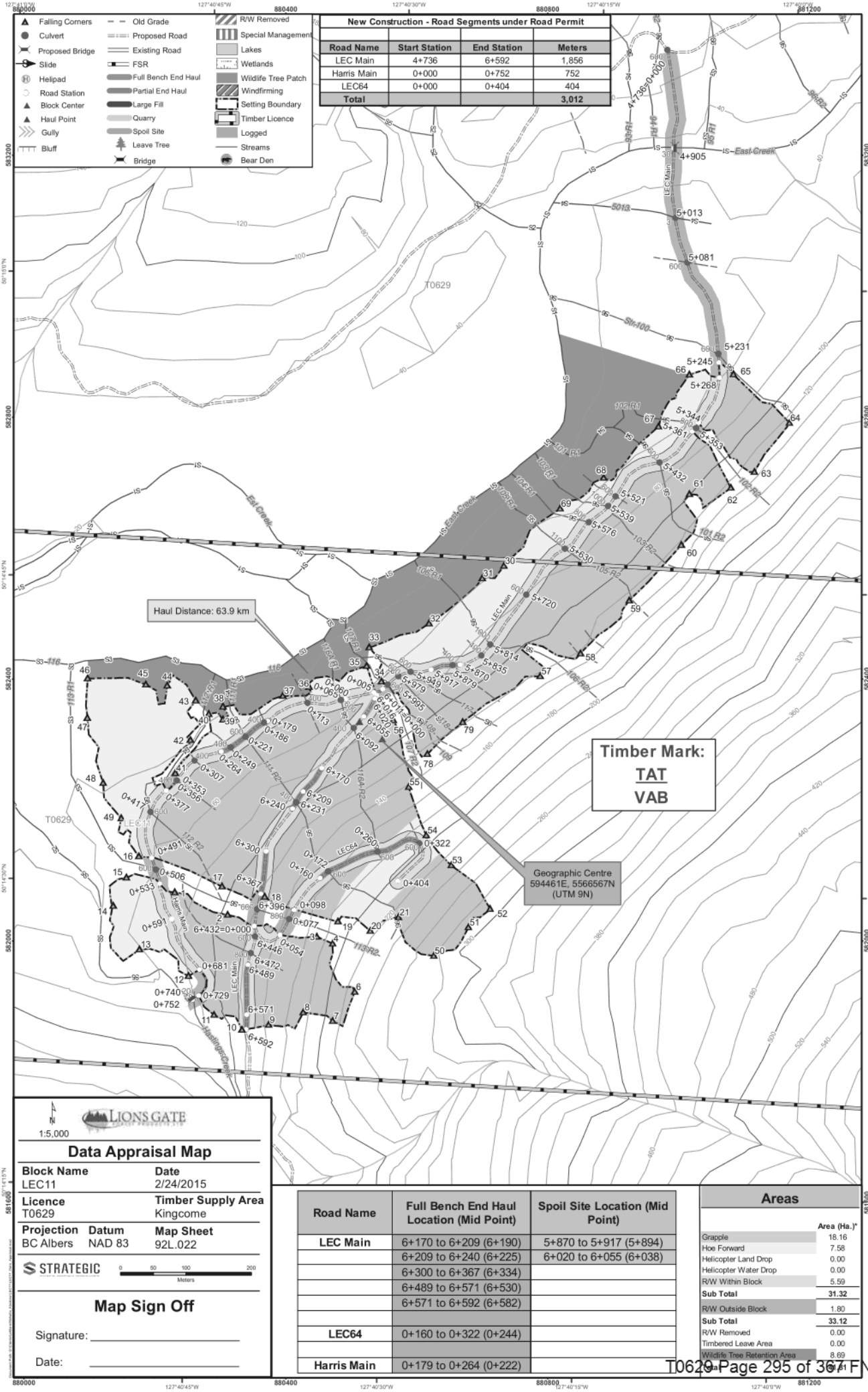


P-Stn m.	Ssl %	Ssr %	SG Cut V. Cu. m.	SG Fill V. Cu. m.	Mass H. Cu. m.
0+178.0	85	-60	21.1	0.0	1018.4
0+179.0	85	-60	24.8	0.0	1039.5
0+180.3	85	-60	76.3	0.0	1064.3
0+185.7	47	-45	154.0	0.0	1140.6
0+198.7	-43	-55	84.7	0.0	1294.6
0+205.0	70	-20	218.9	0.0	1379.3
0+217.6	25	-65	61.3	0.0	1598.2
0+220.9	55	-45	302.9	0.0	1659.5
0+238.5	20	-56	150.0	0.0	1962.4
0+248.9	35	-55	74.8	0.0	2112.5
0+256.7	35	-55	97.7	0.0	2187.3
0+264.0	15	-70	17.8	0.0	2285.0
0+265.0	15	-70			2302.8
Pg. Tot.			1284.5	0.1	
Cum. Tot.			2562.9	260.1	

Page 290 to/à Page 294

Withheld pursuant to/removed as

s.16;s.18



New Construction - Road Segments under Road Permit			
Road Name	**Start Station**	**End Station**	**Meters**
LEC Main	4+736	6+592	1,856
Harris Main	0+000	0+752	752
LEC64	0+000	0+404	404
Total			**3,012**

1:5,000

Data Appraisal Map

Block Name LEC11	**Date** 2/24/2015
Licence T0629	**Timber Supply Area** Kingcome
Projection BC Albers / **Datum** NAD 83	**Map Sheet** 92L.022

STRATEGIC

0 50 100 200 Meters

Map Sign Off

Signature: _____

Date: _____

Road Name	Full Bench End Haul Location (Mid Point)	Spoil Site Location (Mid Point)
LEC Main	6+170 to 6+209 (6+190)	5+870 to 5+917 (5+894)
	6+209 to 6+240 (6+225)	6+020 to 6+055 (6+038)
	6+300 to 6+367 (6+334)	
	6+489 to 6+571 (6+530)	
	6+571 to 6+592 (6+582)	
LEC64	0+160 to 0+322 (0+244)	
Harris Main	0+179 to 0+264 (0+222)	

Areas

	Area (Ha.)*
Grapple	18.16
Hoe Forward	7.58
Helicopter Land Drop	0.00
Helicopter Water Drop	0.00
R/W Within Block	5.59
Sub Total	**31.32**
R/W Outside Block	1.80
Sub Total	**33.12**
R/W Removed	0.00
Timbered Leave Area	0.00
Wildlife Tree Retention Area	8.69
Total	**41.81**

Culvert Information

Road Name	Road Station	Stream Name \ Number	Riparian Class	Community Watershed or Fish Stream	Width (m)	Depth (m)	Q10	Q50	Q100	Structure Size CMP	Structure Size or Portable or	Structure Size WBC	Culvert ID #	Comment
LEC Main	4+736	N/A	NCD	N/A	N/A	N/A	N/A	N/A	N/A	600	N/A	1x2.5	1	
	4+905	East Creek	S1-B	Fish Stream	20.0	2.5	100	138	150	N/A	30m	N/A	2	See Bridge Design
	5+013	5013	S4	Fish Stream	2.0	0.5	2	2.8	3	600	N/A	1x3	3	
	5+081	N/A	NCD	N/A	N/A	N/A	N/A	N/A	N/A	600	N/A	1x2	4	
	5+231	100	S6	N/A	1.1	0.1	0.2	0.3	0.33	600	N/A	1x3	5	
	5+353	102	S6	N/A	1.6	0.1	0.3	0.4	0.48	800	N/A	1x3	6	
	5+432	101	S6	N/A	1.2	0.1	0.2	0.3	0.36	600	N/A	1x3	7	
	5+521	N/A	NCD	N/A	N/A	N/A	N/A	N/A	N/A	600	N/A	1x2	8	
	5+539	103	S6	N/A	2.86	0.15	0.9	1.2	1.29	1000	N/A	1x4	9	
	5+576	104	S6	N/A	0.5	0.1	0.1	0.1	0.15	800	N/A	1x3	10	
	5+630	105	S5	N/A	1	0.1	0.2	0.3	0.3	1100	N/A	1x4	11	
	5+720	N/A	NCD	N/A	N/A	N/A	N/A	N/A	N/A	600	N/A	1x2	12	
	5+814	106	S6	N/A	2.5	0.15	0.8	1	1.13	1000	N/A	1x4	13	
	5+835	N/A	NCD	N/A	N/A	N/A	N/A	N/A	N/A	400	N/A	1x2	14	
	5+879	N/A	NCD	N/A	N/A	N/A	N/A	N/A	N/A	400	N/A	1x2	15	
	5+949	117	S6	N/A	0.7	0.1	0.1	0.2	0.21	600	N/A	1x2	16	
	5+979	118	S6	N/A	0.6	0.1	0.1	0.2	0.18	600	N/A	1x2	17	
	5+995	107	S6	N/A	3.1	0.15	0.9	1.3	1.4	600	N/A	1x4	18	
	6+092	116A	S6	N/A	1.4	0.1	0.3	0.4	0.42	400	N/A	1x2	19	
	6+231	111	S6	N/A	1.3	0.1	0.3	0.4	0.39	400	N/A	1x4	20	
	6+396	113	S6	N/A	1.6	0.15	0.5	0.7	0.72	600	N/A	1x2	21	
	6+446	N/A	NCD	N/A	N/A	N/A	N/A	N/A	N/A	600	N/A	1x2	22	
	6+472	114	S6	N/A	1	0.1	0.2	0.3	0.3	800	N/A	1x4	23	
Harris Main	0+065	116A	S6	N/A	1.4	0.1	0.3	0.4	0.42	600	N/A	1x5.5	24	
	0+113	N/A	NCD	N/A	N/A	N/A	N/A	N/A	N/A	400	N/A	1x5.5	25	
	0+186	N/A	NCD	N/A	N/A	N/A	N/A	N/A	N/A	400	N/A	1x3	26	
	0+221	111	S6	N/A	1.3	0.1	0.3	0.4	0.39	600	N/A	1x2	27	
	0+249	N/A	NCD	N/A	N/A	N/A	N/A	N/A	N/A	400	N/A	1x3	28	
	0+307	N/A	NCD	N/A	N/A	N/A	N/A	N/A	N/A	400	N/A	1x3	29	
	0+356	N/A	NCD	N/A	N/A	N/A	N/A	N/A	N/A	400	N/A	1x3	30	
	0+417	112	S6	N/A	1.3	0.1	0.3	0.4	0.39	600	N/A	1x4	31	
	0+506	113	S6	N/A	1.6	0.15	0.5	0.7	0.72	600	N/A	1x4	32	
	0+740	Hastings Creek	S5	N/A	10	1.2	24	33	36	N/A	20m	N/A	33	See Bridge Design
LEC 64	0+077	113	S6	N/A	1.6	0.15	0.5	0.7	0.72	800	N/A	1x4	34	
	0+172	111	S6	N/A	1.3	0.1	0.3	0.4	0.39	600	N/A	1x4	35	
	0+260	116A	S6	N/A	1.4	0.15	0.4	0.6	0.63	600	N/A	1x4	36	
	0+322	N/A	NCD	N/A	N/A	N/A	N/A	N/A	N/A	600	N/A	1x3	37	

Verbrugge, Cheryl FLNR:EX

From: Mathieu, Phil FLNR:EX
Sent: Tuesday, March 24, 2015 11:55 AM
To: Elliott, Terry C FLNR:EX; Connon, Hugh J FLNR:EX
Subject: Lions Gate Forest Products Ltd TLT0629 CPAB ECAS#66263 Cruise Analysis

Lions Gate Forest Products Ltd TLT0629 CPAB ECAS#66263 Cruise Analysis is complete and correct. The Tracker is now updated. There was a clarify and no changes to the original cruise data. I will have to attach my cruise analysis form to the appraisal submission once the licensee re-submits.

Phil Mathieu, RFT
Cruising Specialist
North Island - Central Coast Resource District
Ministry of Forests, Lands and Natural Resource Operations
Phone: 250-956-5098
e-mail: phil.mathieu@gov.bc.ca

Verbrugge, Cheryl FLNR:EX

From: Elliott, Terry C FLNR:EX
Sent: Friday, April 24, 2015 3:00 PM
To: Josh Hiebert
Cc: Birrell, Steve A FLNR:EX; Elliott, Terry C FLNR:EX; Connon, Hugh J FLNR:EX; McNish, Janel FLNR:EX
Subject: Extended Amortization TL629, CP AB Clarify Details

Good day Josh. Please examine the following clarify details and respond before clarify.

1) Extended Road Amortization Agreement not attached
2) LEC MAIN, sta.2+063 to sta. 2+068 and sta. 2+078 to 2+083, There are these 2 voids (5 meter each) located on each side of the bridge.
3) LEC MAIN, sta.3+270 to sta. 3+280, There appears to be a 10 meter void in this section.
4) LEC MAIN, sta.3+775 to sta. 3+791, Endhaul, This 16 meter Endhaul is not acceptable.
5) LEC MAIN, sta. 4+035 to sta.4+036, There is a I meter void in this location.
6) LEC MAIN, sta. 4+095 to sta. 4+096, It appears to be an overlap of Endhaul and Tabular road in this section.
7) LEC MAIN, sta. 1+974 to sta. 4+365, Your Culverts (Culvert Worksheet) are not included for this section of road.
8) LEC64, There appears to be an overlap of your Endhaul (sta. 0+160 to sta. 0+322) and bridges (sta. 0+170 to sta. 0+174 and sta. 0+258 to sta. 0+262)
9) Culvert Worksheet, LECMAIN, sta. 0+623. Your “Type” indicates “BH” when it is located on “EH”
10) Appraisal map LEC2, LECMAIN, sta. 0+804 (1x4) – Indicated on map and not on ECAS35
11) Appraisal map LEC2. LECMAIN, sta. 0+937 (1x5) – Indicated on map and not on ECAS35
12) Appraisal Map LEC2, Sarah Main, sta. 0+136 (1x4), sta. 0+141 (1x4) and sta. 0+198 (1x4). On map, not on ECAS35 (Bridges)
13) Appraisal Map LEC2, Branch LEC2B1, sta. 0+068 (1x4), On map, not on ECAS35 (Bridges)
14) LECMAIN, sta. 5+829, This 1x4 bridge has been entered into Culvert Worksheet
15) LECMAIN, sta. 6+231 (1x2), This culvert is identified on Appraisal Map LEC11 and not Culvert Worksheet.
16) Harris Main – Should be exactly the same as approved in FTA. (Road Naming Convention)
17) LEC2B – Your ECAS submission indicates to sta. 0+562 while FTA (RP) is only approved to sta. 0+102.
18) LEC2B1 (FTA 0+254)– This road is not included with your submission. Culverts may be an issue.
19) LEC47 (ECAS, 0+521) – Applied for in ECAS but not approved in FTA (RP)
20) LEC47-1 (ECAS, 0+060) – Applied for in ECAS but not approved in FTA (RP)
21) Spur1 – Should be exactly the same as approved in FTA. (Road Naming Convention)
22) Sarah Main – Should be exactly as approved in in FTA. (Road Naming Convention) Your submission is only indicating to sta. 0+291 while Appraisal Map (LEC2) and FTA indicate to sta. 0+458.
23) SPUR4B (0+365) - This road is indicated on Culvert Worksheet and Appraisal Map but not applied for under ECAS submission

Terry Elliott RFT
Revenue Technician
North Island Central Coast Forest District
Ministry of Forests, Lands and Natural Resource Operations
P.O.Box 7000, Port McNeill, B.C. V0N 2R0
Ph.(250) 956-5031 Fax. (250) 956-5079
email: terry.elliott@gov.bc.ca

Verbrugge, Cheryl FLNR:EX

From: Schofield, Cyndi FLNR:EX
Sent: Wednesday, June 24, 2015 10:44 AM
To: Connon, Hugh J FLNR:EX
Cc: Sheaves, Betty FLNR:EX
Subject: T0629 CP AC

I have completed my review for this cutting permit. Cut block LEC4 boundary appears to be correct now.

Cyndi Schofield
GIS Technician
Ministry of FLNRO
PO Box 7000
Port McNeill, BC
Phone: 250 956-5054
Email: Cyndi.Schofield@gov.bc.ca

Verbrugge, Cheryl FLNR:EX

From: Mathieu, Phil FLNR:EX
Sent: Wednesday, June 24, 2015 1:28 PM
To: Elliott, Terry C FLNR:EX; Connon, Hugh J FLNR:EX
Subject: Lions Gate Forest Products Ltd TLT0629 CPAC ECAS#67386 Cruise Analysis

Lions Gate Forest Products Ltd TLT0629 CPAC ECAS#67386 Cruise Analysis is complete and correct. ECAS and the Tracker are now updated. There was a clarify and changes to the original cruise data submitted.

Original Data:

Cw: 18043m3
Hw: 12593m3
Ba: 4173m3
Ss: 165m3
Cy: 1400m3

Final Data:

Cw: 17519m3
Hw: 12091m3
Ba: 4072m3
Ss: 163m3
Cy: 1438m3

Phil Mathieu, RFT
Timber Cruising Specialist
North Island - Central Coast Resource District
Ministry of Forests, Lands and Natural Resource Operations
Phone: 250-956-5098
e-mail: phil.mathieu@gov.bc.ca

CUTTING AUTHORITY DETAIL

Weighted Haul Distance: 8.0

Weighted Crew Transportation Distance: 20.7

Point of Appraisal: ALBE - Alberni

Cutblock #	Harvest Method	Volume (m3)	Point of Origin		Appraisal Log Dump	Other Log Dump	Truck Haul Distance (km)	Crew Transportation		Accessible / Isolated	Road Management	Major Centre	
			1	2				Distance (km)	Marshall Point			Major Centre	Distance (km)
LEC10	CY	4952	Cleagh Creek		OTH	KLASKISH	16.4	17.6	East Creek Camp	A	Yes	Campbell River	176
LEC7	GS	2257	Cleagh Creek		OTH	KLASKISH	5.6	21.3	East Creek Camp	A	Yes	Campbell River	177
LEC7	CY	9025	Cleagh Creek		OTH	KLASKISH	5.6	21.3	East Creek Camp	A	Yes	Campbell River	177
LEC8	GS	3727	Cleagh Creek		OTH	KLASKISH	6.1	21.8	East Creek Camp	A	Yes	Campbell River	176
LEC8	CY	3447	Cleagh Creek		OTH	KLASKISH	6.1	21.8	East Creek Camp	A	Yes	Campbell River	176

OPERATING COST INFORMATION

Development Cost - Bridges

Type	Road Name	Stn #		Bridge Type	Crib Height (m)	Span Length (m)	Crown %	Amortized %	Appraisal Year	Bridge Built?
		Start	End							
N	LEC3000	312	317	L - Log	1	5	100	100	2015	☐
N	LEC3000	420	425	L - Log	1	5	100	100	2015	☐
N	LEC3010	517	522	L - Log	1	5	100	100	2015	☐
N	LEC3800	175	183	L - Log	1	8	100	100	2015	☐
N	LEC3800	329	335	L - Log	1	6	100	100	2015	☐

OPERATING COST INFORMATION

Development Cost - Tabular Roads

Identity				Subgrade						
	Station #									
Road Name	Start	End	Section Length (km)	Bank Height Category	RMC	Appraisal Year	Crown %	Amortized %	Section Built?	
BR60	2841	2873	0.032	OMRB - Other Material - Rock Ballast	S - Soft	2015	100	100	☐	
BR60	2898	2938	0.040	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
BR60	2978	3238	0.260	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
BR60	3258	3896	0.638	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
BR60	3998	4031	0.033	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
BR60	4128	4134	0.006	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
BR60	4170	4238	0.068	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
BR60	4278	4310	0.032	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
BR60	4330	4368	0.038	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	S - Soft	2015	100	100	☐	
LEC3000	0	312	0.312	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
LEC3000	317	420	0.103	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
LEC3000	425	520	0.095	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
LEC3010	0	517	0.517	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
LEC3010	522	659	0.137	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
LEC3012	0	29	0.029	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
LEC3014	0	37	0.037	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
LEC3014	0	175	0.175	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
LEC3700	0	99	0.099	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	
LEC3800	183	329	0.146	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	S - Soft	2015	100	100	☐	
LEC3800	335	410	0.075	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2015	100	100	☐	

Total for 2015 : 2.872 km

Tabular Road Total: 2.872 km

OPERATING COST INFORMATION

Development Cost - Road Reconstruction

Case	Road Name	Start	End	Section Length	Subgrade					Surfacing						Total Cost for Section	Appraisal Year	Crown %	Amortization %	Section Built
					Rem. Road Width	Construction Category	Uphill Side Slope %	Material Type	Cost per km	Required	Depth	Haul Distance	Pit Location	Material Type	Cost per km					
R1	BR60	0	2841	2.841	5.50	1	55	S	5922	D	0.2		LOCAL	S	11558	49660	2015	100	100	☐
R1	EAST CREEK MAINLINE	5735	7218	1.483	5.50	1	55	S	5922	D	0.2		LOCAL	S	11558	25923	2015	100	100	☐

Total for 2015: 4.324

OPERATING COST INFORMATION

Development Cost - End Haul

Type	Case	Road Name	Start	End	Section Length (km)	Subgrade							Surfacing					Partial %	Crown %	Amortized %	Total Cost for Section	Appraisal Year	Section Built
						Construction Category	Uphill Side Slope %	Material Type	Spoil Location	Haul Distance (km)	Total End Haul Volume (m3)	Total Cost End Haul ($/km)	Surfacing	Material Type	Pit Location	Haul Distance (km)	Total Cost / km ($/km)						
N	EH	BR60	2873	2898	0.025	5	60	S	br60 1+741	1.19	316	180720	☐					100	100	100	4518	2015	☐
N	EH	BR60	2938	2978	0.040	5	63	S	br60 1+741	1.26	658	236275	☐					100	100	100	9451	2015	☐
N	EH	BR60	3238	3258	0.020	5	55	S	br60 1+741	1.55	508	370450	☐					100	100	100	7409	2015	☐
N	EH	BR60	3896	3998	0.102	5	66	S	br60 1+741	2.25	1726	256441	☐					100	100	100	26157	2015	☐
N	EH	BR60	4031	4128	0.097	6	75	S	br60 1+741	2.38	1757	291464	☐					100	100	100	28272	2015	☐
N	EH	BR60	4134	4170	0.036	6	73	S	br60 1+741	2.45	1206	540806	☐					100	100	100	19469	2015	☐
N	EH	BR60	4238	4278	0.040	6	74	S	br60 1+741	2.56	602	244325	☐					100	100	100	9773	2015	☐
N	EH	BR60	4310	4330	0.020	5	55	S	br60 1+741	2.62	637	491800	☐					100	100	100	9836	2015	☐
N	EH	LEC3010	528	550	0.022	5	55	S	lec 3010 0+440	0.10	334	203773	☐					100	100	100	4483	2015	☐
		Total for 2015:			0.402																119368		
		Total:			0.402																119368		

SELLING PRICE INFORMATION

Grade %

Species	Peeler		Lumber				Sawlog			Shingle			Util.		Chip	Total Net Cruise Volume by Species	Grade Source Level
	B	C	D	E	F	G	H	I	J	K	L	M	U	X	Y		
Alder																117	
Balsam																1483	
Cedar																12134	
Cypress																312	
Hemlock																9362	

Selling Price Zone:

TOTAL NET CRUISE VOLUME: 23408

Second growth: ☐

Single Tree Selection Cruise Volume: ☐

TSA: 33 - Kingcome TSA

TSB: 33A - Kingcome TSA Brooks Block

Applicable Volume (m^3)	Appraisal Year	Area Unlogged (ha)
	2015	33.4

ATTACHMENTS

If submitting attachments as a single zip file, submit below.
Please check off below what attachments are contained in the zip file.

Attach File:

- ☐ Appraisal Map
- ☐ Approved Request for a Approval of a Road Use Charge

Specified Operations:

- ☐ A-frame Logging
- ☐ Blowdown Timber
- ☐ Single Tree Selection
- ☐ Group Selection
- ☐ Skyline Logging
- ☐ Lake Transportation
- ☐ Skidder Swing
- ☐ Towing to Tie-up Grounds
- ☐ Camp Move
- ☐ Destumping
- ☐ Tree Crown Modification
- ☐ Culvert Worksheet

Detailed Engineering

- ☐ Bridge Repairs
- ☐ Construction Estimate Form #1
- ☐ Construction Estimate Form #2
- ☐ Construction Estimate Form #3
- ☐ Construction Estimate Form #4
- ☐ Construction Estimate Form #5
- ☐ Greater than 5 Construction Estimate Forms

Cruise

- ☐ Cruise Compilation (.txt or .dat in ascii format for original & reduction data)
- ☐ Cruise Analysis Form (District Staff Only)
- ☐ Tenure Info. (District Staff Only)
- ☐ BC Timber Sales (FS 574) (BSTC Staff Only)
- ☐ Extended Road Amortization
- ☐ Miscellaneous

If attaching individually, submit below.

	Electronic (Attached)	Paper Copy To Follow	NA	Attachment
Appraisal Map	❍	❍	●	
Approved Request for a Approval of a Road Use Charge	❍	❍	●	
Specified Operation				
A-frame Logging	❍	❍	●	
Blowdown Timber	❍	❍	●	
Single-Tree Selection	❍	❍	●	
Group Selection	❍	❍	●	
Skyline Logging	❍	❍	●	
Lake Transportation	❍	❍	●	
Skidder Swing	❍	❍	●	
Towing To Tie-up Grounds	❍	❍	●	
Camp Move	❍	❍	●	
Destumping	❍	❍	●	
Tree Crown Modification	●	❍	❍	Copy of TreeCrownMod_06May2015.xls
Culvert Worksheet	❍	❍	●	
Detailed Engineering				
Bridge Repairs	❍	❍	●	
Construction Estimate Form #1	❍	❍	●	
Construction Estimate Form #2	❍	❍	●	
Construction Estimate Form #3	❍	❍	●	
Construction Estimate Form #4	❍	❍	●	
Construction Estimate Form #5	❍	❍	●	
If there are more than 5 CEF's please attach the remainder as a ZIP file	❍	❍	●	
Engineering info to Support Detailed Engineering	❍	❍	●	
Extended Road Amortization	●	❍	❍	FS1423_Road Ammortization Agreement_06May2015_signed.pdf
Cruise				
Cruise Compilation (.txt or .dat in ascii format for original & reduction data)	●	❍	❍	Cruise Data.zip
Cruise Analysis Form (District Staff Only)	❍	❍	●	
Tenure Info. (District Staff Only)	❍	❍	●	
BC Timber Sales (FS 574) (BCTS Staff Only)	❍	❍	●	
Miscellaneous				

Ecas ID: 72255 Primary Timber Mark: TATVAD Appraisal Effective Date: 2015-07-20
Printed Date: 2015-07-24 2:05:08PM

End Haul Data	●	❍	❍	End Haul Data.zip
LEC10 APPRAISAL MAP	●	❍	❍	LEC10 Appraisal Map Portrait.pdf
LEC10 FINAL CRUISE MAP	●	❍	❍	LEC10 Final Cruise Map.pdf
LEC APPRAISAL MAP	●	❍	❍	LEC7 Appraisal Map.pdf
LEC7 FINAL CRUISE MAP	●	❍	❍	LEC7 Final Cruise Map.pdf
LEC8 APPRAISAL MAP	●	❍	❍	LEC8 Appraisal Map.pdf
LEC8 FINAL CRUISE MAP	●	❍	❍	LEC8 Final Cruise Map.pdf
End Haul Support Table	●	❍	❍	Road Table LEC10.pdf
	❍	❍	●	

TIMBER LICENCE T0629

CUTTING PERMIT AE

Ministry of Forests, Lands and Natural Resource Operations

PURSUANT TO Timber Licence T0629 (the "Licence") this Cutting Permit is issued to:

LIONS GATE FOREST PRODUCTS LTD.
POST OFFICE BOX 1700
PORT MCNEILL, BRITISH COLUMBIA
V0N 2R0
(the "Licensee")

1.00 PERMIT AREA AND TERM

1.01 Subject to the Licence and the forestry legislation, the Licensee is authorized to cut and remove timber from the area(s) of land within the harvest areas, **Cutblock LEC17,** as delineated and shown on the attached Exhibit A maps.

1.02 Subject to Paragraph 1.03, and the term of the Licence, the term of this Cutting Permit begins on **September 24, 2015** and expires **April 26, 2018**.

1.03 Provided the Licence does not prohibit extensions, the District Manager may extend the term of this Cutting Permit in accordance with section 58.1 of the *Forest Act*.

1.04 Notwithstanding Paragraph 1.03, the term of this Cutting Permit will not exceed 4 years.

1.05 The Licensee must make application for an extension of this Cutting Permit to the District Manager at least 60 days before the expiry of the Cutting Permit and in a form acceptable to the District Manager.

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 TIMBER HARVESTING AND WASTE ASSESSMENT

3.01 The Licensee must not fell standing timber, or must not buck or remove felled or dead and down timber, as the case may be, if:

(a) the timber is specified as reserved timber in Paragraph 3.02 of this Cutting Permit; or

(b) under an applicable operational plan or the forestry legislation, the Licensee must not fell, buck or remove the timber, for silviculture, biodiversity or other forest management reasons.

3.02 The following timber is specified as reserved timber:

See Schedule B.

3.03 Subject to Paragraph 3.01, all timber that meets or exceeds the merchantability specifications set out in the Waste Assessment Manual and that is not removed by the Licensee may be identified in an assessment described in Paragraph 3.04 of this Cutting Permit and the volume of that timber, whether standing or felled, that could have been removed under the Licence, but which is not removed may be dealt with as if it had been removed for the purposes of calculating stumpage.

3.04 For the purpose of conducting the assessment of the volume of timber that was not removed, but which could have been removed as described in Paragraph 3.03 and for the purpose of determining the volume of timber that is waste for the purposes of Paragraph 3.05:

(a) the Licensee must conduct an assessment in accordance with the current Waste Assessment Manual after the Licensee has declared that primary logging (felling timber and yarding or forwarding the timber to central landings or road sides, but does not include removing the timber) has been completed for the Cutting Permit; or

(b) the District Manager may conduct an assessment in accordance with the current Waste Assessment Manual after the expiry of the term of the Cutting Permit or Licence or the Licence and/or Cutting Permit otherwise being terminated, whichever occurs first.

3.05 The District Manager, in a notice given to the Licensee, may require the Licensee to pay in respect of the volume of timber determined under Paragraph 3.04, a monetary waste assessment for all timber, whether standing or felled, that could have been removed under the Licence, but is not removed, and that meets or exceeds the merchantability specifications as set out in the current Waste Assessment Manual.

4.00 TIMBER MARK

4.01 The timber mark(s) for this Cutting Permit is/are:

TATVAE

4.02 The Licensee shall erect signs at all exits from the harvest area, clearly showing the timber mark(s) referred to in Paragraph 4.01.

5.00 SCALE BASED STUMPAGE

5.01 For the purpose of determining the amount of stumpage payable in respect of timber removed from the harvest area, the volume or quantity of timber removed will be determined using information provided in a scale of the timber.

5.02 The Licensee must ensure that:

(a) all timber removed from the harvest area 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.

5.03 Immediately upon receipt of a notice, statement or invoice issued on behalf of the Crown, the Licensee must pay stumpage under Part 7 of the *Forest Act* at rates determined, redetermined and varied under section 105 of that Act for all timber removed from the harvest area or not removed and identified under part 3.00 of this Cutting Permit.

6.00 LEGISLATIVE FRAMEWORK

6.01 This Cutting Permit is subject to:

(a) the *Forest Act;*

(b) the *Forest Practices Code of British Columbia Act;*

(c) the *Forest and Range Practices Act*; and

(d) the regulations and standards made under those Acts.

6.02 The Licensee must:

(a) comply with the forestry legislation; and

(b) ensure that its employees, agents and contractors comply with the forestry legislation when engaging in or carrying out activities or operations under or associated with this Cutting Permit.

6.03 Nothing in this Cutting Permit is to be construed as authorizing the Licensee to cut or remove timber or engage in or carry out any other forest practices until all applicable operational plans for both the harvest area and any corresponding roads have been prepared or approved by the District Manager.

6.04 Nothing in this Cutting Permit is to be construed as authorizing the Licensee to carry out any operations or engage in any activities otherwise than in accordance with the requirements of the forestry legislation.

7.00 ROADS

7.01 The Licensee must ensure that all roads constructed or modified by or on behalf of the Licensee on the harvest area are:

(a) identified on a forest development plan or a forest stewardship plan and authorized under a road permit; or

(b) authorized under Paragraph 7.02.

7.02 Subject to the Licence and forestry legislation, the Licensee may construct or modify roads under the authority of this Cutting Permit on the harvest area if the roads are:

(a) identified on a logging plan;

(b) wholly contained within a cut block identified on a forest development plan; and

(c) not identified on a forest development plan or a forest stewardship plan as providing access to more than one cut block.

7.03 Subject to Paragraph 7.04, a road referred to in Paragraph 7.02 may be used for non-industrial purposes by any person without charge.

7.04 The Licensee may close or restrict use of a road referred to in Paragraph 7.02, if:

(a) in the opinion of the District Manager, activities or operations under or associated with this Cutting Permit represent a danger to life or property;

(b) the District Manager consents to the closure or restriction; and

(c) the Licensee complies with any directions of the District Manager with respect to the closure or restriction, including directions regarding the location and marking of gates and the posting of warning notices.

8.00 MISCELLANEOUS

8.01 The Schedules and Exhibit "A" map(s) attached to this Cutting Permit are deemed to be part of this Cutting Permit.

8.02 This Cutting Permit is deemed to be part of the Licence.

8.03 The Licence will govern the interpretation of this Cutting Permit.

8.04 The Licensee must notify the District Manager in writing in a form acceptable to the District Manager, when all harvest related obligations are complete.

9.00 INTERPRETATION

9.01 In this Cutting Permit:

"forestry legislation" means the legislation outlined in Paragraph 6.01 of this Cutting Permit;

"harvest area" means the area or areas allocated for the activities conducted by the Licensee pursuant to the Licence and this Cutting Permit and which for greater detail are outlined on the attached Exhibit "A" map(s);

"remove" means the removal of timber from the harvest area and "removed" and "removing" have the corresponding meanings;

"waste" means timber, whether standing or felled, that could have been removed under the Cutting Permit but was not removed, and which meets or exceeds the specifications of timber merchantability as stated in the Waste Assessment Manual, and as determined in accordance with the Waste Assessment Manual; and

"Waste Assessment Manual" means the "Provincial Logging Residue and Waste Measurement Procedures Manual".

_____

Andrew Ashford, RPF, District Manager
North Island – Central Coast Forest District

SCHEDULE A

SPECIAL CONDITIONS AND REQUIREMENTS

1.00 ORDERLY CONDITIONS

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

2.00 HAZARD TREES

2.01 The Licensee may cut and remove hazard trees from within fifty (50) metres of the boundaries of the cutblock's total merchantable area.

2.02 The Licensee may fell trees outside of the cutblock's boundaries but within the area described in Paragraph 2.01 if the person conducting tree felling or rigging tail hold/anchor trees determines that the tree represents a safety hazard according to the Worker's Compensation Board standards.

2.03 Trees felled under Paragraph 2.01 and Paragraph 2.02 shall be bucked and utilized according to the specifications included in the Licence and/or Cutting Permit.

3.00 TREE CROWN MODIFICATION

3.01 The Licensee may cut, damage or modify the crowns of the trees located outside the boundaries of the total merchantable area of the cutblock identified on the attached Exhibit "A" maps and the locations of those specified trees are indicated coloured in pink and identified as "Windfirm" in the legend on the appraisal map attached to the appraisal for this cutting permit. The purpose of the modification of the crowns of the aforementioned trees is to reduce the risk of damage by wind and hence windfallen timber at the cutblock's boundaries and beyond.

4.00 OTHER RIGHTS

4.01 The Licensee's rights under this Permit are subject to any other rights of use and occupation over the Permit Area and the Clearing Area which the Crown has granted to third parties and the Licensee covenants not to obstruct or impede a third party in their authorized use or occupation of these areas.

4.02 Except where a mineral reserve established under section 22 (2) of the *Mineral Tenure Act* allows otherwise, the Licensee covenants and agrees not to obstruct or impede the use of tenures which have been, or which may be, issued to third parties under the *Mineral Tenure Act*.

4.03 In consideration of the foregoing, the Licensee agrees to indemnify and save harmless the Crown from and against all claims for loss or damage, whether caused by the Licensee's acts or omissions, including losses or damages arising out of the Licensee's interference or obstruction of a third party's authorized use, or occupation of the Permit Area or Clearing Area.

SCHEDULE B

RESERVED TIMBER

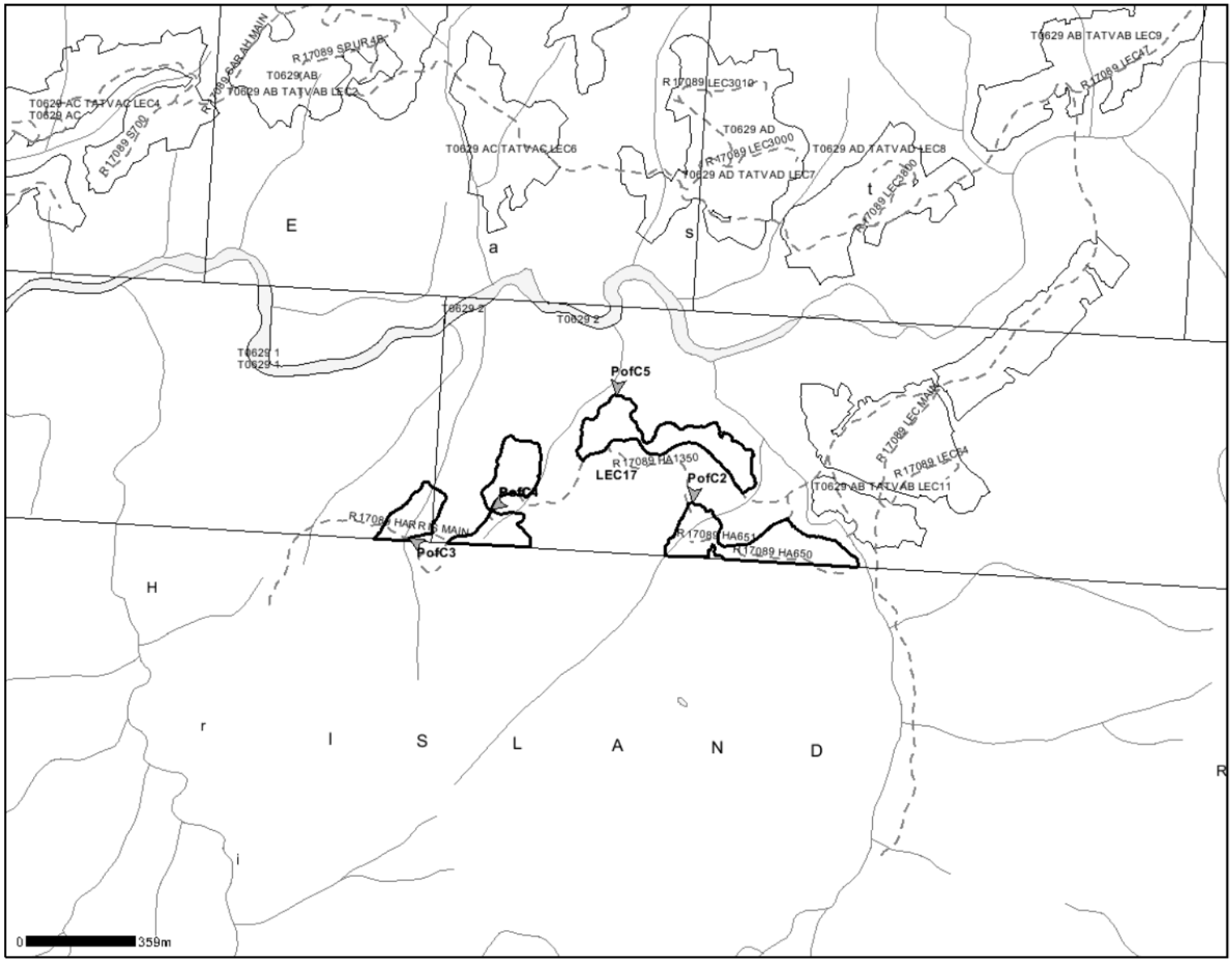
There is no specified reserved timber under this cutting permit.

BRITISH COLUMBIA

MINISTRY OF FORESTS, LANDS AND NATURAL RESOURCE OPERATIONS

EXHIBIT A

MAP OF : T0629 CP AE (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RUPERT DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : Outside Managed Units MGT UNIT NO :
ESF SUBMISSION ID : 1440218 BCGS MAPSHEET NO : 92L.022	SCALE : 1:20000 at A Size Area (Ha): 18.445	UTM : 9 NAD : NAD 83	DRAWN BY : FTA DATE : Jul 28, 2015



Legend

- Tenure Application
- Tenure Road Application
- Retired Tenure Road
- P of C
- P of T
- Tenure Feature
- Range
- TFL
- Provincial Forest
- Forest Service Road
- Highway
- Municipal Road
- Non Status Road
- Recreation Trails
- Road Permit
- SUP Road
- Right of Way
- Schedule B CP Road
- Mineral Tenure Points
- Cities
- Waterbodies
- River/Stream
- Coastline / Island

LEC17 (18.445 Ha)
PofC1 UTM9 593012, 5566188
PofC2 UTM9 593669, 5566238
PofC3 UTM9 592747, 5566085
PofC4 UTM9 593012, 5566188
PofC5 UTM9 593405, 5566578

Inside Timber Licence T0629
Save and Except the prior rights of R17089

REVIEWED
By Cyndi Schofield at 10:01 am, Aug 12, 2015

BRITISH COLUMBIA

EXHIBIT A

MAP OF : T0629 CP AE (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RUPERT DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : Outside Managed Units MGT UNIT NO :
ESF SUBMISSION ID : 1440218 BCGS MAPSHEET NO : 92L.022	SCALE : 1:10000 at A Size Area (Ha): 18.445	UTM : 9 NAD : NAD 83	DRAWN BY : FTA DATE : Jul 28, 2015

Legend

- Tenure Application
- Tenure Road Application
- Retired Tenure Road
- P of C
- P of T
- Tenure Feature
- Range
- TFL
- Provincial Forest
- Forest Service Road
- Highway
- Municipal Road
- Non Status Road
- Recreation Trails
- Road Permit
- SUP Road
- Right of Way
- Schedule B CP Road
- Mineral Tenure Points
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(18.445 Ha)
PofC1 UTM9 593669, 5566238
PofC2 UTM9 593405, 5566578
PofC3 UTM9 593012, 5566188
PofC4 UTM9 593012, 5566188
PofC5 UTM9 592747, 5566085

BRITISH COLUMBIA

EXHIBIT A

MAP OF : T0629 CP AE CB LEC17 (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RUPERT DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : Outside Managed Units MGT UNIT NO :
ESF SUBMISSION ID : 1440218 BCGS MAPSHEET NO : 92L.022	SCALE : 1:10000 at A Size Area (Ha): 18.445	UTM : 9 NAD : NAD 83	DRAWN BY : FTA DATE : Jul 28, 2015

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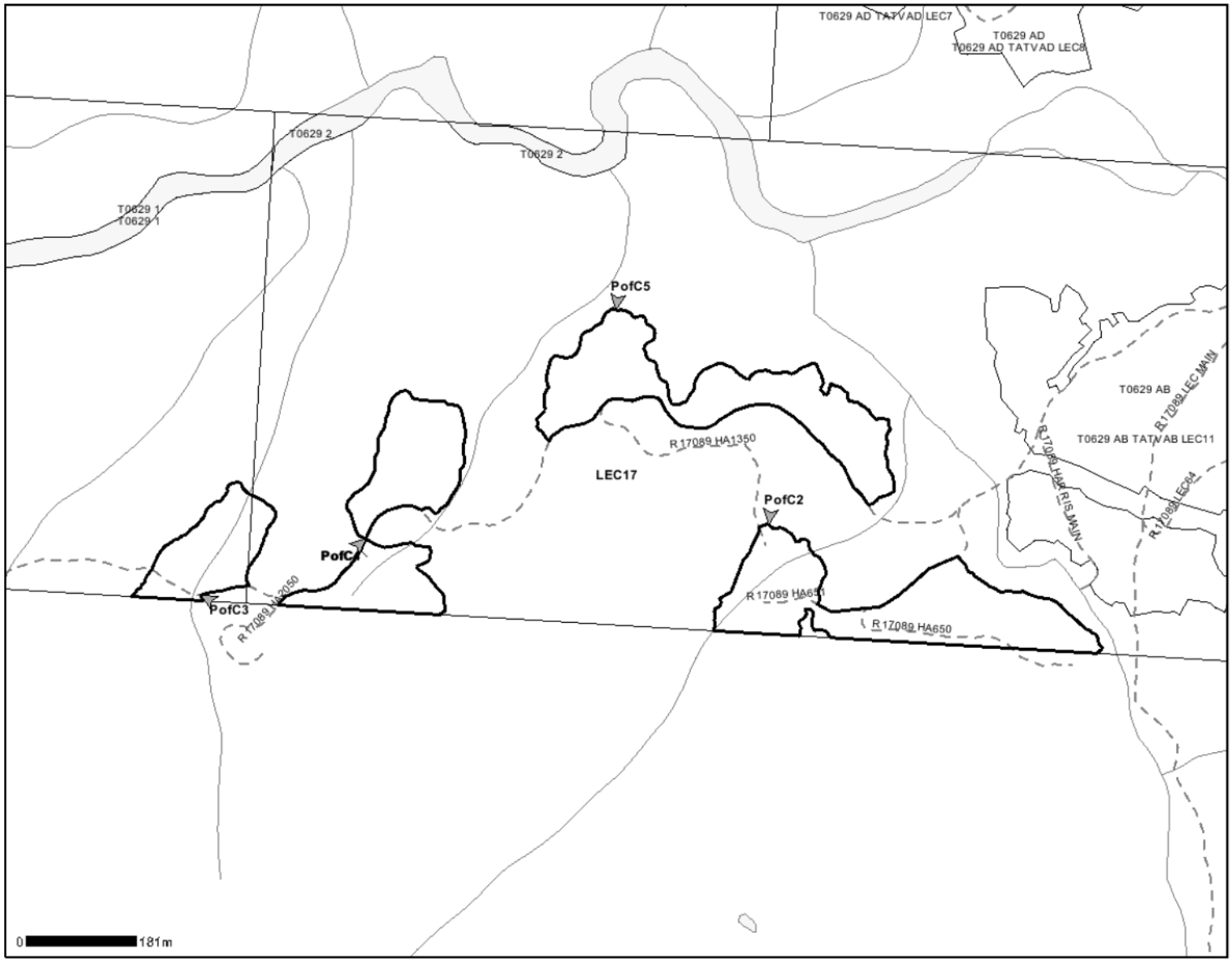

Legend

- Tenure Application
- Tenure Road Application
- Retired Tenure Road
- P of C
- P of T
- Tenure Feature
- Range
- TFL
- Provincial Forest
- Forest Service Road
- Highway
- Municipal Road
- Non Status Road
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LEC17 (18.445 Ha)
PofC1 UTM9 593012, 5566188
PofC2 UTM9 593669, 5566238
PofC3 UTM9 592747, 5566085
PofC4 UTM9 593012, 5566188
PofC5 UTM9 593405, 5566578

Road Name	Quarry Location (Mid Point)	Full Bench End Haul Location (Mid Point)	Spoil Site Location (Mid Point)
LEC2A			
Sarah Main	0+094		
Sarah Main	0+386		
LEC Main	1+188	0+586 to 0+740 (663)	0+000
LEC Main	1+314 to 1+363 (1338.5)	0+860 to 0+975 (917.5)	
Spur 1			
Spur 4B	0+107		

Road Name	Start Station	End Station	Meters
LEC Main	0+448	1+974	1,526
LEC2A	0+000	0+186	186
Sarah Main	0+000	0+458	458
LEC2B-1	0+000	0+254	254
Spur 1	0+000	0+311	311
Spur 2	0+000	0+017	17
Spur 4B	0+000	0+389	389
Total			**3141**

- Falling Corners
- Culvert
- Bridge
- Slide
- Helipad
- Road Station
- Block Center
- Haul Point
- Gully
- Bluff
- Old Grade
- Proposed Road
- Existing Road
- FSR
- Full Bench End Haul
- Partial End Haul
- Large Fill
- Quarry
- Spoil Site
- R/W Removed
- Special Management
- Lakes
- Wetlands
- Wildlife Tree Patch
- Setting Boundary
- Timber Licence
- Logged
- Streams

Haul Distance: 58.9 km

Geographic Centre
592498E, 5567872N
(UTM 9N)

Timber Mark:
TAT
VAB

1:5,000

LIONS GATE TIMBER PROFITS LTD.

Data Appraisal Map

Block Name	Date
LEC2	2/27/2015
Licence	**Timber Supply Area**
T0629	Kingcome
Projection	**Datum** / **Map Sheet**
BC Albers	NAD 83 / 92L.022

STRATEGIC

0 50 100 200
Meters

Map Sign Off

Signature: _____

Date: _____

Culvert Information

Index	Road Name	Road Station	Stream Name \ Number	Riparian Class	Structure Size CMP	Structure Size or Portable or	Structure Size WBC	Comments
1	LEC Main	0+455	9	S6	800	N/A	1x4	
2		0+623	EC1B-1	S6	500	N/A	1x2	
3		0+804	EC1A-2	S6	800	N/A	1x4	
4		0+937	EC1A	S6	1000	N/A	1x5	
5		1+049	EC2B	S6	500	N/A	1x2	
6		1+058	N/A	NCD	500	N/A	1x2	
7		1+144	N/A	NCD	400	N/A	1X2	
8		1+165	N/A	NCD	600	N/A	1X3	
9		1+275	EC2B	S6	800	N/A	1X3	
10		1+510	EC2B-1	S6	800	N/A	1X3	
11		1+752	N/A	NCD	400	N/A	1x2	
12		1+842	N/A	NCD	400	N/A	1x2	
13		1+939	EC2B-1	S6	800	N/A	1X3	
14	Sarah Main	0+136	EC2	S6	800	N/A	1x4	Side Channel
15		0+141	EC2	S6	800	N/A	1x4	
16		0+198	EC2A	S6	800	N/A	1x4	
17		0+261	N/A	NCD	500	N/A	1x2	
18		0+293	N/A	NCD	500	N/A	1x2	
19	Spur #1	0+021	N/A	NCD	600	N/A	1x2	
20	LEC 2A	0+084	EC2	S6	800	N/A	1X3	
21	LEC 2B-1	0+068	EC1A	S6	1000	N/A	1X4	
22		0+087	EC1A-2	S6	800	N/A	1X2	
23		0+128	EC1A-1	S6	800	N/A	1X2	
24	Spur #4B	0+079	N/A	NCD	400	N/A	1x2	
25		0+149	EC2B	S6	600	N/A	1x2	
26		0+192	EC2	S6	800	N/A	1X3	

Areas

	Area (Ha.)*
Grapple	30.15
Hoe Forward	2.12
R/W Within Block	6.32
Sub Total	**38.60**
R/W Outside Block	1.21
Sub Total	**39.81**
R/W Removed	0.00
Timbered Leave Area	8.20
Wildlife Tree Retention Area	2.92
Total	**50.93**

LIONS GATE
FOREST PRODUCTS LTD

Andrew Ashford, District Manager
Ministry of Forests, Lands and Natural resources
North Island Central Coast District
2217 Mine Road, PO Box 7000
Port McNeill, BC
V0N 2R0

February 27, 2015

REFERENCE: CUTTING PERMIT APPLICATION – T0629 CP 'AB'

Lions Gate Forest Products Ltd (LGFP) makes application for Cutting Permit (CP) 'AB'.

This CP application is comprised of 3 cut-blocks (LEC2, LEC9, and LEC11) located in the East Creek Drainage.

The cut-blocks contained in this application are included in the Lemare Lions Gate FSP. The cut-blocks are entirely contained within T0629.

LGFP has notified the Quatsino and had a full information sharing session with Ralph Wallas, his team and Kathy DesRochers on May 14, 2014 regarding our plans for this area. During our information sharing it was determined that no Archaeological assessment would be required for the blocks and we would follow 'Standard Operating Procedures', and the Quatsino had no further concerns with our plans. During the engineering and field work there were no heritage features or archaeological important features identified within our proposed cut blocks or along our roads.

This are was inaccessible until 2014 due to the vast amount of storm damage from the September 2010 rainfall event, the lack of access stopped us from being able to maintain the road for 4 years. This resulted in a much larger scope of works to make this safe for logging equipment and crews. In December 2010 we started to open up the Klaskino prior to the PEP funding, see CEF#1 for appraisal. Due to lack of access until 2014 we completed ditching, culvert replacements, widening, brushing, resurfacing, etc to make the road safe for logging and public access (see CEF#2)

The roads required to access these blocks are approved under road permit R17089, and/or pending approval.

Included in this CP application are the following attachments (attached in ECAS):

- 1 copy of the signed CP application (this letter);

PO Box 1700.

Port McNeill, BC V0N 2R0

TEL (250) 956-3123 FAX (250) 956-4888 Email: office@lemare.ca

- 1:5,000 scale Appraisal Map(s);
- 1:5,000 scale Cruise Map(s);
- Cruise DAT Files;
- Cruise Plan(s) & FS693;
- Cruise Cards;
- Cruise Compilations;
- 1:5,000 scale Road Construction Map;
- 1:5,000 scale Plot Map;
- Notification to First Nations (Quatsino) of intent to construct new roads and harvest cut-blocks within T0629;

Please note, all the above attachments were submitted into ECAS. The electronic submissions associated with this application are:

- ECAS id/submission # 66263
- ESF id/submission # 1399145

Please send the approval to Lions Gate Forest Products Ltd. Attention: Josh Hiebert

For further information, please contact the undersigned.

Regards,

Joshua Hiebert, RFT, ATC
Planning Manager
LIONS GATE FOREST PRODUCTS LTD.
3341 Mine Road – PO Box 1700
Port McNeill, B.C., Canada V0N 2R0
Telephone: (250) 956-3123
Fax: (250) 956-4888
Email: jhiebert@lemare.ca

Verbrugge, Cheryl FLNR:EX

From: Josh Hiebert <jhiebert@lemare.ca>
Sent: Tuesday, April 28, 2015 1:40 PM
To: Elliott, Terry C FLNR:EX
Cc: Birrell, Steve A FLNR:EX; Connon, Hugh J FLNR:EX; McNish, Janel FLNR:EX
Subject: Re: Tl629, CP AB, ECAS#66263, Clarify details #2

Please send back for clarify and we can get this all changed road before mappers leave

Joshua Hiebert, RFT, ATC
sent from my iPhone

On Apr 28, 2015, at 1:06 PM, Elliott, Terry C FLNR:EX <Terry.Elliott@gov.bc.ca> wrote:

> Good day Josh. Please examine the following details and respond before clarify.
>
> 1) ECAS37, Tabular Roads, Subgrade, RMC – Your RMC of "H" is incorrect for your location.
> 2) LEC MAIN, Culvert Worksheet, sta. 2+118, 1x2 (WBC) is inconsistent with Appraisal Map sta. 2+188.
> 3) LEC MAIN, Culvert Worksheet, sta. 3+166, 1x2 (WBC) is actually located at sta. 3+152 according to Appraisal Map. The map indicates a 6 meter bridge located at sta. 3+166.
> 4) ECAS35, LEC MAIN, 12 Meter bridge, Sta. 3+457 to sta. 3+469, This bridge location is inconsistent with the Appraisal map location sta. 3+453.
> 5) LEC MAIN, sta. 3+460 (1x2, WBC) – Identified on Appraisal map LEC9 but not Culvert Worksheet.
> 6) LEC Main, sta. 3+471 (1x2, WBC) – Identified on Culvert Worksheet but not Appraisal Map LEC9.
> 7) LEC MAIN, There is a discrepancy in location of your WBC between Culvert Worksheet sta. 3+718 and Appraisal Map sta. 3+717.
> 8) LEC64, Section Overlap Bridges(sta. 0+170 to sta. 0+174 and sta. 0+258 to sta. 0+262) with Endhaul (sta. 0+160 to sta. 0+322) – Bridges still in ECAS 35. Needs to be removed. I guess your change was to 1000 mm pipe. The center of your 2nd pipe is not 0+200.
> 9) Map LEC2, SARAH MAIN, sta. 0+136 (1x4), sta. 0+141 (1X4) and 0+198 (1x4) changed to what?
>
> *Terry Elliott RFT*
> *Revenue Technician*
> *North Island Central Coast Forest District*
> *Ministry of Forests, Lands and Natural Resource Operations*
> *P.O.Box 7000, Port McNeill, B.C. V0N 2R0*
> *Ph.(250) 956-5031 Fax. (250) 956-5079*
> *email: terry.elliott@gov.bc.ca*

Verbrugge, Cheryl FLNR:EX

From: Josh Hiebert <jhiebert@lemare.ca>
Sent: Tuesday, March 31, 2015 2:35 PM
To: Short, Robert W FLNR:EX
Cc: Sheaves, Betty FLNR:EX
Subject: T0629 CP AA
Attachments: T0611 & T0629 EXT APPROVAL LETTER_19March2015.pdf

Good Afternoon Rob
Can you please amend the expiry of T0629 CP'AA' to April 26, 2018 to match the expiry of the licence as it was just extended. If you have any questions please let me know

Thanks

Joshua Hiebert, RFT, ATC
Planning Manager

LIONS GATE
FOREST PRODUCTS LTD

3341 Mine Road – PO Box 609
Port McNeill, B.C., Canada V0N 2R0
Telephone: (250) 956-3123
Cell: (250) 902-8991
Fax: (250) 956-4888
Email: jhiebert@lgforest.ca

Please consider the environment before printing this e-mail or its attachment(s)

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BRITISH COLUMBIA

Ministry of Forests, Lands and Natural Resource Operations

COAST APPRAISAL DATA SUBMISSION

Licence	T0629	**Cutting Permit**	AB	**Primary Timber Mark**	TATVAB
ECAS ID	66263			**ECAS Status**	Received

ACKNOWLEDGEMENTS

This Appraisal Data Submission is prepared in accordance with the *Coast Appraisal Manual* as of this date with truthful information on the timber to be harvested, site conditions, harvesting, development, silviculture plans, and other information.

If the R.P.F. or R.F.T. is not a staff member of the Licensee, then the

Licensee Representative is:

Name: Hiebert, Joshua M

Phone: (250)956-3123

Fax:

E-mail Address: jhiebert@lemare.ca

Registered Professional Forester/Registered Forest Technologist:

Select one of the options below

○ I certify I personally completed the work described herein.

● I certify that the work described herein fulfills 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 Britsh Columbia Forest Professionals.

Name: Hiebert, Joshua **R.P.F./R.F.T. #:** 0556

Phone: (250)956-3123 **Fax:** **Registered Forest Technologist:** ☑

E-mail Address: JHIEBERT@LEMARE.CA

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

REFERENCE INFORMATION

Licensee Name: | **ECAS Status:** Received

Timber Mark	Timber Mark Cruise Vol. (m^3)	Primary Mark
TATVAB	64,078	☑

Geographic Forest District: DNI - North Island - Central Coast Natural Resource District

Administrative Forest District: DNI - North Island - Central Coast Natural Resource District

TSA: 33 - Kingcome TSA | **File Type:** A06 - Timber Licence

TSB: 33A - Kingcome TSA Brooks Block | **NRFL Bonus Bid:** $/$m^3$

Major Centre Distance: 177 km | **POA Distance:** 439 km

Appraisal Type: ● New Appraisal ○ Reappraisal

Reappraisal Reason:

Appraisal Effective Date: 2015-03-31 | **Appraisal Expiry Date:**

Total Net Cruise Volume: 64078 m^3 | **Single Tree Selection Cruise Grades:** ☐

Single Tree Selection Volumes: 0 m^3 | **Is Second Growth Coniferous Volume >= 80% of Total Coniferous Volume:** ☐ 0%

Net Volume Second Growth Coniferous: 0 m^3 | **Total Coniferous Volume:** 63964 m^3

Sampling Error % (at 2 standard deviations): 12.1 %

Rate Calculation Method: ○CVP ● MPS

Volume by Species

Species	Volume (m^3)
Alder	114
Balsam	6051
Cedar	30808
Cypress	1874
Hemlock	24747
Spruce	484

Amendments Since Last Cruise Compilation

Block	Approval Date	Additions (ha)	Deletions (ha)
	Totals		

Initial Merchantable Area: (record to nearest 0.1 ha)	72.7 ha
Net Amendments:	0.0 ha
Total Merchantable Area:	72.7 ha

Appraisal Year	Area Logged (ha)
2015	0

OPERATING COST INFORMATION

Tree To Truck Cost Estimates

Average Side Slope: 48 %

CP Avg. Vol. / Log: 1.20 m^3

Conventional Logging

Cable Yarding:	52715 m^3
Ground Systems:	11363 m^3
Skyline > 600m:	0 m^3
NHSVPH:	879.82 m^3 /ha

Helicopter Logging

Land Drop:	0 m^3
Water Drop:	0 m^3
Total Helicopter:	0 m^3
Heli Single Standing Stem Selection:	0 m^3
Heli Selection (excludes HSSSS):	0 m^3

Log Transportation Estimates

Truck Hauling

Average Truck Hauling Distance: 61.1 km (nearest 0.1 km)

Approved Road Use Charge: 0.00 $/$m^3$

Point of Appraisal: ALBE - Alberni

Water Transportation

Point of Origin: CLCK - Cleagh Creek

2nd Point Of Origin:

Administration and Other Estimates

Routine Road Management: ● Yes ○ No

The licensee incurs the Basic Silviculture Cost? ● Yes ○ No

Weighted Crew Transportation Distance: 61.1 km (nearest 0.1 km)

Is the Cutting Permit Accessible? ● Yes ○ No

OPERATING COST INFORMATION

Specified Operations

Description	Rate $/ m^3
COMMENTS:	

OPERATING COST INFORMATION

Road Development Check

Cut Block / Road Name	Station Start	Station End	Type	Road Section Partial Percent
HarrisMain	0	5	Road	
HarrisMain	5	37	Road	
HarrisMain	37	50	Road	
HarrisMain	50	54	Road	
HarrisMain	54	59	Road	
HarrisMain	59	62	Road	
HarrisMain	62	68	Bridge	0
HarrisMain	68	109	Road	
HarrisMain	109	115	Bridge	0
HarrisMain	115	120	Road	
HarrisMain	120	122	Road	
HarrisMain	122	140	Road	
HarrisMain	140	144	Road	
HarrisMain	144	148	Road	
HarrisMain	148	177	Road	
HarrisMain	177	179	Road	
HarrisMain	179	264	End Haul	100
HarrisMain	264	280	Road	
HarrisMain	280	300	Road	
HarrisMain	300	337	Road	
HarrisMain	337	369	Road	
HarrisMain	369	391	Road	
HarrisMain	391	413	Road	
HarrisMain	413	417	Bridge	0
HarrisMain	417	470	Road	
HarrisMain	470	498	Road	
HarrisMain	498	504	Road	
HarrisMain	504	508	Bridge	0
HarrisMain	508	522	Road	
HarrisMain	522	527	Road	
HarrisMain	527	533	Road	
HarrisMain	533	572	Road	
HarrisMain	572	580	Road	
HarrisMain	580	589	Road	
HarrisMain	589	620	Road	
HarrisMain	620	632	Road	
HarrisMain	632	644	Road	
HarrisMain	644	656	Road	
HarrisMain	656	665	Road	
HarrisMain	665	691	Road	
HarrisMain	691	722	Road	
HarrisMain	722	729	Road	
HarrisMain	729	730	Road	
HarrisMain	730	751	Road	
LEC MAIN	448	586	Road	
LEC MAIN	586	740	End Haul	100
LEC MAIN	740	860	Road	
LEC MAIN	860	975	End Haul	100
LEC MAIN	975	1974	Road	

LEC MAIN	4365	4466	Road	
LEC MAIN	4466	4480	Road	
LEC MAIN	4480	4490	Road	
LEC MAIN	4490	4500	Road	
LEC MAIN	4500	4525	Road	
LEC MAIN	4525	4540	Road	
LEC MAIN	4540	4560	Road	
LEC MAIN	4560	4580	Road	
LEC MAIN	4580	4588	Road	
LEC MAIN	4588	4590	Road	
LEC MAIN	4590	4593	Road	
LEC MAIN	4593	4599	Road	
LEC MAIN	4599	4605	Road	
LEC MAIN	4605	4608	Road	
LEC MAIN	4608	4634	Road	
LEC MAIN	4634	4653	Road	
LEC MAIN	4653	4667	Road	
LEC MAIN	4667	4673	Road	
LEC MAIN	4673	4680	Road	
LEC MAIN	4680	4686	Road	
LEC MAIN	4686	4700	Road	
LEC MAIN	4700	4720	Road	
LEC MAIN	4720	4730	Road	
LEC MAIN	4730	4736	Road	
LEC MAIN	4740	4749	Road	
LEC MAIN	4749	4757	Road	
LEC MAIN	4757	4774	Road	
LEC MAIN	4774	4792	Road	
LEC MAIN	4792	4804	Road	
LEC MAIN	4804	4820	Road	
LEC MAIN	4820	4831	Road	
LEC MAIN	4831	4890	Road	
LEC MAIN	4890	4920	Bridge	0
LEC MAIN	4920	4948	Road	
LEC MAIN	4948	4975	Road	
LEC MAIN	4975	5000	Road	
LEC MAIN	5000	5040	Road	
LEC MAIN	5040	5054	Road	
LEC MAIN	5054	5057	Road	
LEC MAIN	5057	5072	Road	
LEC MAIN	5072	5132	Road	
LEC MAIN	5132	5140	Road	
LEC MAIN	5140	5180	Road	
LEC MAIN	5180	5200	Road	
LEC MAIN	5200	5206	Road	
LEC MAIN	5206	5284	Road	
LEC MAIN	5284	5298	Road	
LEC MAIN	5298	5314	Road	
LEC MAIN	5314	5335	Road	
LEC MAIN	5335	5340	Road	
LEC MAIN	5340	5353	Road	
LEC MAIN	5353	5365	Road	
LEC MAIN	5365	5399	Road	
LEC MAIN	5399	5412	Road	
LEC MAIN	5412	5440	Road	
LEC MAIN	5440	5457	Road	

LEC MAIN	5457	5468	Road	
LEC MAIN	5468	5480	Road	
LEC MAIN	5480	5503	Road	
LEC MAIN	5503	5515	Road	
LEC MAIN	5515	5535	Road	
LEC MAIN	5535	5539	Bridge	0
LEC MAIN	5539	5600	Road	
LEC MAIN	5600	5624	Road	
LEC MAIN	5624	5626	Road	
LEC MAIN	5626	5627	Road	
LEC MAIN	5627	5631	Bridge	0
LEC MAIN	5631	5667	Road	
LEC MAIN	5667	5693	Road	
LEC MAIN	5693	5700	Road	
LEC MAIN	5700	5714	Road	
LEC MAIN	5714	5723	Road	
LEC MAIN	5723	5740	Road	
LEC MAIN	5740	5788	Road	
LEC MAIN	5788	5811	Road	
LEC MAIN	5811	5812	Road	
LEC MAIN	5812	5816	Bridge	0
LEC MAIN	5816	5820	Road	
LEC MAIN	5820	5824	Road	
LEC MAIN	5824	5949	Road	
LEC MAIN	5949	5953	Road	
LEC MAIN	5953	5967	Road	
LEC MAIN	5967	5977	Road	
LEC MAIN	5977	5985	Road	
LEC MAIN	5985	5991	Road	
LEC MAIN	5991	5995	Bridge	0
LEC MAIN	5995	6003	Road	
LEC MAIN	6003	6008	Road	
LEC MAIN	6008	6016	Road	
LEC MAIN	6016	6039	Road	
LEC MAIN	6039	6070	Road	
LEC MAIN	6070	6080	Road	
LEC MAIN	6080	6099	Road	
LEC MAIN	6099	6120	Road	
LEC MAIN	6120	6138	Road	
LEC MAIN	6138	6170	Road	
LEC MAIN	6170	6209	End Haul	100
LEC MAIN	6209	6240	End Haul	100
LEC MAIN	6240	6249	Road	
LEC MAIN	6249	6260	Road	
LEC MAIN	6260	6274	Road	
LEC MAIN	6274	6278	Road	
LEC MAIN	6278	6300	Road	
LEC MAIN	6300	6367	End Haul	100
LEC MAIN	6367	6377	Road	
LEC MAIN	6377	6413	Road	
LEC MAIN	6413	6419	Road	
LEC MAIN	6419	6430	Road	
LEC MAIN	6430	6440	Road	
LEC MAIN	6440	6453	Road	
LEC MAIN	6453	6460	Road	
LEC MAIN	6460	6466	Road	

LEC MAIN	6466	6470	Road	
LEC MAIN	6470	6474	Bridge	0
LEC MAIN	6474	6475	Road	
LEC MAIN	6475	6489	Road	
LEC MAIN	6489	6592	End Haul	100
LEC2A	0	186	Road	
LEC2B	0	562	Road	
LEC47	0	952	Road	
LEC47-1	0	60	Road	
LEC64	0	8	Road	
LEC64	8	36	Road	
LEC64	36	55	Road	
LEC64	55	61	Road	
LEC64	61	68	Road	
LEC64	68	71	Road	
LEC64	71	159	Road	
LEC64	159	160	Road	
LEC64	160	322	End Haul	100
LEC64	170	174	Bridge	0
LEC64	258	262	Bridge	0
LEC64	322	336	Road	
LEC64	331	337	Bridge	0
LEC64	337	349	Road	
LEC64	349	375	Road	
LEC64	378	404	Road	
SPUR1	0	311	Road	
SarahMain	0	291	Road	

OPERATING COST INFORMATION

Development Cost - Culverts (Metal)

Circular Type				
Diameter	Total Length For Diameter	Crown %	Amortized %	Appraisal Year
0.6	10	100	100	2015
0.8	10	100	100	2015

Development Cost - Culverts (Wooden)

Number	Crown %	Amortized %	Appraisal Year	Unit Cost ($/Unit)
48	100	100	2015	1000

OPERATING COST INFORMATION

Appraised Roads

Road Name
HarrisMain
LEC MAIN
LEC2A
LEC2B
LEC47
LEC47-1
LEC64
SPUR1
SarahMain

OPERATING COST INFORMATION

Development Cost - New Construction Detailed Engineering

Cost Estimate Identifier	Road Length (km)	Crown %	Amortized %	Total Cost ($)	Appraisal Year	Comments
EH	0.756	100	100	237777	2015	

Total for 2015: 0.756 km $ 237777

Total Cost New Construction: $ 237777

Development Cost - Reconstruction & Replacement Detailed Engineering

Cost Estimate Identifier	Road Length (km)	Crown %	Amortized %	Total Cost ($)	Appraisal Year	Comments
CEF1	9.000	100	100	90500	2015	KlaskonFSR 2010
CEF2	33.000	100	100	407309	2015	KlaskinoFSR 2014

Total for 2015: 42.000 km $ 497809

Total Cost Reconstruction & Replacement: $ 497809

CONTROL

Forest District

TOA Eligible:	❍ Yes ❍ No
Was the Appraisal Data Field Checked:	❍ Yes ● No
Was the CP Check Cruised:	❍ Yes ● No
Appraisal Data Submission Has Been Validated Against FTA:	☑

Data Submission Reviewed By	Email	Date Submitted	Date Received
Connon, Hugh	hugh.connon@gov.bc.ca	2015-03-03	2015-03-03

Forest Region

Adjust Quarterly:	❍ Yes ❍ No
TOA Miscellaneous Cost:	
MPS/CVP Differential:	_____ $/m

Reviewed By	Email	Date Sent To Region	Date Transferred To GAS	ECAS Status
				RCD

CUTTING AUTHORITY DETAIL

Weighted Haul Distance: 61.1

Weighted Crew Transportation Distance: 61.1

Point of Appraisal: ALBE - Alberni

Cutblock #	Harvest Method	Volume (m3)	Point of Origin		Appraisal Log Dump	Other Log Dump	Truck Haul Distance (km)	Crew Transportation		Accessible / Isolated	Road Management	Major Centre	
			1	2				Distance (km)	Marshall Point			Major Centre	Distance (km)
LEC11	CY	13815	Cleagh Creek		MAHA		63.9	63.9	mahatta	A	Yes	Campbell River	175
LEC11	GS	5801	Cleagh Creek		MAHA		63.9	63.9	mahatta	A	Yes	Campbell River	175
LEC2	GS	2170	Cleagh Creek		MAHA		58.9	58.9	mahatta	A	Yes	Campbell River	178
LEC2	CY	31211	Cleagh Creek		MAHA		58.9	58.9	mahatta	A	Yes	Campbell River	178
LEC9	GS	3392	Cleagh Creek		MAHA		62.8	62.8	mahatta	A	Yes	Campbell River	175
LEC9	CY	7689	Cleagh Creek		MAHA		62.8	62.8	mahatta	A	Yes	Campbell River	175

OPERATING COST INFORMATION

Development Cost - Bridges

Type	Road Name	Stn #		Bridge Type	Crib Height (m)	Span Length (m)	Crown %	Amortized %	Appraisal Year	Bridge Built?
		Start	End							
N	HarrisMain	62	68	L - Log	1	6	100	100	2015	☐
N	HarrisMain	109	115	L - Log	1	6	100	100	2015	☐
N	HarrisMain	413	417	L - Log	1	4	100	100	2015	☐
N	HarrisMain	504	508	L - Log	1	4	100	100	2015	☐
N	LEC MAIN	4890	4920	P - Permanent / Portable	3	30	100	100	2015	☐
N	LEC MAIN	5535	5539	L - Log	1	4	100	100	2015	☐
N	LEC MAIN	5627	5631	L - Log	1	4	100	100	2015	☐
N	LEC MAIN	5812	5816	L - Log	1	4	100	100	2015	☐
N	LEC MAIN	5991	5995	L - Log	1	4	100	100	2015	☐
N	LEC MAIN	6470	6474	L - Log	1	4	100	100	2015	☐
N	LEC64	170	174	L - Log	1	4	100	100	2015	☐
N	LEC64	258	262	L - Log	1	4	100	100	2015	☐
N	LEC64	331	337	L - Log	1	6	100	100	2015	☐

OPERATING COST INFORMATION

Development Cost - Tabular Roads

Identity				Subgrade						
	Station #									
Road Name	Start	End	Section Length (km)	Bank Height Category	RMC	Appraisal Year	Crown %	Amortized %	Section Built?	
LEC2A	0	186	0.186	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2014	100	100	☑	
LEC2B	0	562	0.562	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2014	100	100	☑	
LEC47	0	952	0.952	MRK - Medium Rock - Rock Face 1.51 to 3m	S - Soft	2014	100	100	☐	
SPUR1	0	311	0.311	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2014	100	100	☑	
	Total for 2014 :		2.011 km							
HarrisMain	0	5	0.005	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
HarrisMain	5	37	0.032	OMRB - Other Material - Rock Ballast	H - Hard	2015	100	100	☐	
HarrisMain	37	50	0.013	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
HarrisMain	50	54	0.004	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2015	100	100	☐	
HarrisMain	54	59	0.005	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
HarrisMain	59	62	0.003	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2015	100	100	☐	
HarrisMain	68	109	0.041	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
HarrisMain	115	120	0.005	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2015	100	100	☐	
HarrisMain	120	122	0.002	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
HarrisMain	122	140	0.018	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2015	100	100	☐	
HarrisMain	140	144	0.004	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	H - Hard	2015	100	100	☐	
HarrisMain	144	148	0.004	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2015	100	100	☐	
HarrisMain	148	177	0.029	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	H - Hard	2015	100	100	☐	
HarrisMain	177	179	0.002	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	H - Hard	2015	100	100	☐	
HarrisMain	264	280	0.016	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	H - Hard	2015	100	100	☐	
HarrisMain	280	300	0.020	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2015	100	100	☐	
HarrisMain	300	337	0.037	OMRB - Other Material - Rock Ballast	H - Hard	2015	100	100	☐	
HarrisMain	337	369	0.032	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
HarrisMain	369	391	0.022	OMRB - Other Material - Rock Ballast	H - Hard	2015	100	100	☐	
HarrisMain	391	413	0.022	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
HarrisMain	417	470	0.053	OMRB - Other Material - Rock Ballast	H - Hard	2015	100	100	☐	
HarrisMain	470	498	0.028	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
HarrisMain	498	504	0.006	OMRB - Other Material - Rock Ballast	H - Hard	2015	100	100	☐	

HarrisMain	508	522	0.014	OMRB - Other Material - Rock Ballast	H - Hard	2015	100	100	☐	
HarrisMain	522	527	0.005	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
HarrisMain	527	533	0.006	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2015	100	100	☐	
HarrisMain	533	572	0.039	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
HarrisMain	572	580	0.008	OMRB - Other Material - Rock Ballast	H - Hard	2015	100	100	☐	
HarrisMain	580	589	0.009	OMRB - Other Material - Rock Ballast	H - Hard	2015	100	100	☐	
HarrisMain	589	620	0.031	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
HarrisMain	620	632	0.012	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2015	100	100	☐	
HarrisMain	632	644	0.012	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
HarrisMain	644	656	0.012	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2015	100	100	☐	
HarrisMain	656	665	0.009	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
HarrisMain	665	691	0.026	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2015	100	100	☐	
HarrisMain	691	722	0.031	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	H - Hard	2015	100	100	☐	
HarrisMain	722	729	0.007	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2015	100	100	☐	
HarrisMain	729	730	0.001	OMRB - Other Material - Rock Ballast	H - Hard	2015	100	100	☐	
HarrisMain	730	751	0.021	OMRB - Other Material - Rock Ballast	H - Hard	2015	100	100	☐	
LEC MAIN	448	586	0.138	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2015	100	100	☑	
LEC MAIN	740	860	0.120	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2015	100	100	☑	
LEC MAIN	975	1974	0.999	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2015	100	100	☑	
LEC MAIN	4365	4466	0.101	OMRB - Other Material - Rock Ballast	H - Hard	2015	100	100	☐	
LEC MAIN	4466	4480	0.014	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
LEC MAIN	4480	4490	0.010	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2015	100	100	☐	
LEC MAIN	4490	4500	0.010	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	H - Hard	2015	100	100	☐	
LEC MAIN	4500	4525	0.025	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	H - Hard	2015	100	100	☐	
LEC MAIN	4525	4540	0.015	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	H - Hard	2015	100	100	☐	
LEC MAIN	4540	4560	0.020	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2015	100	100	☐	
LEC MAIN	4560	4580	0.020	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
LEC MAIN	4580	4588	0.008	OMRB - Other Material - Rock Ballast	H - Hard	2015	100	100	☐	
LEC MAIN	4588	4590	0.002	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
LEC MAIN	4590	4593	0.003	OMRB - Other Material - Rock Ballast	H - Hard	2015	100	100	☐	
LEC MAIN	4593	4599	0.006	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
LEC MAIN	4599	4605	0.006	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2015	100	100	☐	
LEC MAIN	4605	4608	0.003	OMRB - Other Material - Rock Ballast	H - Hard	2015	100	100	☐	
LEC MAIN	4608	4634	0.026	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
LEC MAIN	4634	4653	0.019	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2015	100	100	☐	
LEC MAIN	4653	4667	0.014	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
LEC MAIN	4667	4673	0.006	OMRB - Other Material - Rock Ballast	H - Hard	2015	100	100	☐	
LEC MAIN	4673	4680	0.007	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2015	100	100	☐	
LEC MAIN	4680	4686	0.006	OMRB - Other Material - Rock Ballast	H - Hard	2015	100	100	☐	
LEC MAIN	4686	4700	0.014	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
LEC MAIN	4700	4720	0.020	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	H - Hard	2015	100	100	☐	

LEC MAIN	4720	4730	0.010	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2015	100	100	☐	
LEC MAIN	4730	4736	0.006	OMRB - Other Material - Rock Ballast	H - Hard	2015	100	100	☐	
LEC MAIN	4740	4749	0.009	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
LEC MAIN	4749	4757	0.008	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2015	100	100	☐	
LEC MAIN	4757	4774	0.017	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	H - Hard	2015	100	100	☐	
LEC MAIN	4774	4792	0.018	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2015	100	100	☐	
LEC MAIN	4792	4804	0.012	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
LEC MAIN	4804	4820	0.016	OMRB - Other Material - Rock Ballast	H - Hard	2015	100	100	☐	
LEC MAIN	4820	4831	0.011	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
LEC MAIN	4831	4890	0.059	OMRB - Other Material - Rock Ballast	H - Hard	2015	100	100	☐	
LEC MAIN	4920	4948	0.028	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2015	100	100	☐	
LEC MAIN	4948	4975	0.027	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
LEC MAIN	4975	5000	0.025	OMRB - Other Material - Rock Ballast	H - Hard	2015	100	100	☐	
LEC MAIN	5000	5040	0.040	OMRB - Other Material - Rock Ballast	H - Hard	2015	100	100	☐	
LEC MAIN	5040	5054	0.014	OMRB - Other Material - Rock Ballast	H - Hard	2015	100	100	☐	
LEC MAIN	5054	5057	0.003	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
LEC MAIN	5057	5072	0.015	OMRB - Other Material - Rock Ballast	H - Hard	2015	100	100	☐	
LEC MAIN	5072	5132	0.060	OMRB - Other Material - Rock Ballast	H - Hard	2015	100	100	☐	
LEC MAIN	5132	5140	0.008	OMRB - Other Material - Rock Ballast	H - Hard	2015	100	100	☐	
LEC MAIN	5140	5180	0.040	OMRB - Other Material - Rock Ballast	H - Hard	2015	100	100	☐	
LEC MAIN	5180	5200	0.020	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
LEC MAIN	5200	5206	0.006	OMRB - Other Material - Rock Ballast	H - Hard	2015	100	100	☐	
LEC MAIN	5206	5284	0.078	OMRB - Other Material - Rock Ballast	H - Hard	2015	100	100	☐	
LEC MAIN	5284	5298	0.014	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
LEC MAIN	5298	5314	0.016	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2015	100	100	☐	
LEC MAIN	5314	5335	0.021	OMRB - Other Material - Rock Ballast	H - Hard	2015	100	100	☐	
LEC MAIN	5335	5340	0.005	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
LEC MAIN	5340	5353	0.013	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2015	100	100	☐	
LEC MAIN	5353	5365	0.012	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
LEC MAIN	5365	5399	0.034	OMRB - Other Material - Rock Ballast	H - Hard	2015	100	100	☐	
LEC MAIN	5399	5412	0.013	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
LEC MAIN	5412	5440	0.028	OMRB - Other Material - Rock Ballast	H - Hard	2015	100	100	☐	
LEC MAIN	5440	5457	0.017	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2015	100	100	☐	
LEC MAIN	5457	5468	0.011	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	H - Hard	2015	100	100	☐	
LEC MAIN	5468	5480	0.012	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2015	100	100	☐	
LEC MAIN	5480	5503	0.023	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
LEC MAIN	5503	5515	0.012	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2015	100	100	☐	
LEC MAIN	5515	5535	0.020	OMRB - Other Material - Rock Ballast	H - Hard	2015	100	100	☐	
LEC MAIN	5539	5600	0.061	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
LEC MAIN	5600	5624	0.024	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2015	100	100	☐	
LEC MAIN	5624	5626	0.002	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	

LEC MAIN	5626	5627	0.001	OMRB - Other Material - Rock Ballast	H - Hard	2015	100	100	☐	
LEC MAIN	5631	5667	0.036	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
LEC MAIN	5667	5693	0.026	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2015	100	100	☐	
LEC MAIN	5693	5700	0.007	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	H - Hard	2015	100	100	☐	
LEC MAIN	5700	5714	0.014	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2015	100	100	☐	
LEC MAIN	5714	5723	0.009	OMRB - Other Material - Rock Ballast	H - Hard	2015	100	100	☐	
LEC MAIN	5723	5740	0.017	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
LEC MAIN	5740	5788	0.048	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2015	100	100	☐	
LEC MAIN	5788	5811	0.023	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
LEC MAIN	5811	5812	0.001	OMRB - Other Material - Rock Ballast	H - Hard	2015	100	100	☐	
LEC MAIN	5816	5820	0.004	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
LEC MAIN	5820	5824	0.004	OMRB - Other Material - Rock Ballast	H - Hard	2015	100	100	☐	
LEC MAIN	5824	5949	0.125	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
LEC MAIN	5949	5953	0.004	OMRB - Other Material - Rock Ballast	H - Hard	2015	100	100	☐	
LEC MAIN	5953	5967	0.014	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
LEC MAIN	5967	5977	0.010	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2015	100	100	☐	
LEC MAIN	5977	5985	0.008	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
LEC MAIN	5985	5991	0.006	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2015	100	100	☐	
LEC MAIN	5995	6003	0.008	OMRB - Other Material - Rock Ballast	H - Hard	2015	100	100	☐	
LEC MAIN	6003	6008	0.005	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
LEC MAIN	6008	6016	0.008	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2015	100	100	☐	
LEC MAIN	6016	6039	0.023	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
LEC MAIN	6039	6070	0.031	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2015	100	100	☐	
LEC MAIN	6070	6080	0.010	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
LEC MAIN	6080	6099	0.019	OMRB - Other Material - Rock Ballast	H - Hard	2015	100	100	☐	
LEC MAIN	6099	6120	0.021	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
LEC MAIN	6120	6138	0.018	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2015	100	100	☐	
LEC MAIN	6138	6170	0.032	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	H - Hard	2015	100	100	☐	
LEC MAIN	6240	6249	0.009	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	H - Hard	2015	100	100	☐	
LEC MAIN	6249	6260	0.011	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
LEC MAIN	6260	6274	0.014	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2015	100	100	☐	
LEC MAIN	6274	6278	0.004	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
LEC MAIN	6278	6300	0.022	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2015	100	100	☐	
LEC MAIN	6367	6377	0.010	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2015	100	100	☐	
LEC MAIN	6377	6413	0.036	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
LEC MAIN	6413	6419	0.006	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2015	100	100	☐	
LEC MAIN	6419	6430	0.011	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
LEC MAIN	6430	6440	0.010	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2015	100	100	☐	
LEC MAIN	6440	6453	0.013	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
LEC MAIN	6453	6460	0.007	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2015	100	100	☐	
LEC MAIN	6460	6466	0.006	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	H - Hard	2015	100	100	☐	

LEC MAIN	6466	6470	0.004	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2015	100	100	☐	
LEC MAIN	6474	6475	0.001	OMRB - Other Material - Rock Ballast	H - Hard	2015	100	100	☐	
LEC MAIN	6475	6489	0.014	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	H - Hard	2015	100	100	☐	
LEC47-1	0	60	0.060	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2015	100	100	☐	
LEC64	0	8	0.008	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
LEC64	8	36	0.028	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2015	100	100	☐	
LEC64	36	55	0.019	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	H - Hard	2015	100	100	☐	
LEC64	55	61	0.006	XRK - Extra Heavy Rock - Rock Face 4.51 to 6m	H - Hard	2015	100	100	☐	
LEC64	61	68	0.007	HRK - Heavy Rock - Rock Face 3.01 to 4.5m	H - Hard	2015	100	100	☐	
LEC64	68	71	0.003	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2015	100	100	☐	
LEC64	71	159	0.088	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
LEC64	159	160	0.001	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2015	100	100	☐	
LEC64	322	336	0.014	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
LEC64	337	349	0.012	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
LEC64	349	375	0.026	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2015	100	100	☐	
LEC64	378	404	0.026	TOE - Toe Rock - Rock Face 0.01 to 1.5m	H - Hard	2015	100	100	☐	
SarahMain	0	291	0.291	MRK - Medium Rock - Rock Face 1.51 to 3m	H - Hard	2015	100	100	☑	

Total for 2015 : 4.425 km

Tabular Road Total: 6.436 km

Ecas ID: 66263 Primary Timber Mark: TATVAB Appraisal Effective Date: 2015-03-31
Printed Date: 2015-03-03 9:13:48AM

OPERATING COST INFORMATION

Development Cost - Road Reconstruction

Case	Road Name	Start	End	Section Length	Subgrade					Surfacing						Total Cost for Section	Appraisal Year	Crown %	Amortization %	Section Built
					Rem. Road Width	Construction Category	Uphill Side Slope %	Material Type	Cost per km	Required	Depth	Haul Distance	Pit Location	Material Type	Cost per km					
										☐										☐
		Total for : _____																		

OPERATING COST INFORMATION

Development Cost - End Haul

Type	Case	Road Name	Start	End	Section Length (km)	Subgrade							Surfacing					Partial %	Crown %	Amortized %	Total Cost for Section	Appraisal Year	Section Built
						Construction Category	Uphill Side Slope %	Material Type	Spoil Location	Haul Distance (km)	Total End Haul Volume (m3)	Total Cost End Haul ($/km)	Surfacing	Material Type	Pit Location	Haul Distance (km)	Total Cost / km ($/km)						
N	EH	HarrisMain	179	264	0.085	5	47	H	LEC Main 5+894	0.34	1607	309671	☐					100	100	100	26322	2015	☐
N	EH	LEC MAIN	586	740	0.154	6	70	H	LEC Main 0+000	0.66	3499	412864	☐					100	100	100	63581	2015	☑
N	EH	LEC MAIN	860	975	0.115	5	60	H	LEC Main 0+000	0.92	2514	368322	☐					100	100	100	42357	2015	☑
N	EH	LEC MAIN	6170	6209	0.039	6	72	H	LEC Main 6+038	0.15	635	289103	☐					100	100	100	11275	2015	☐
N	EH	LEC MAIN	6209	6240	0.031	6	80	H	LEC Main 6+038	0.19	647	371387	☐					100	100	100	11513	2015	☐
N	EH	LEC MAIN	6300	6367	0.067	5	49	H	LEC Main 6+038	0.33	664	162209	☐					100	100	100	10868	2015	☐
N	EH	LEC MAIN	6489	6592	0.103	6	60	H	LEC Main 6+038	0.50	1295	226835	☐					100	100	100	23364	2015	☐
N	EH	LEC64	160	322	0.162	5	48	H	LEC Main 6+038	0.64	2919	299364	☐					100	100	100	48497	2015	☐
		Total for 2015:			0.756																237777		
		Total:			0.756																237777		

SELLING PRICE INFORMATION

Grade %

Species	Peeler		Lumber				Sawlog			Shingle			Util.		Chip	Total Net Cruise Volume by Species	Grade Source Level
	B	C	D	E	F	G	H	I	J	K	L	M	U	X	Y		
Alder																114	
Balsam																6051	
Cedar																30808	
Cypress																1874	
Hemlock																24747	
Spruce																484	

Selling Price Zone:

TOTAL NET CRUISE VOLUME: 64078

Second growth: ☐

Single Tree Selection Cruise Volume: ☐

TSA: 33 - Kingcome TSA

TSB: 33A - Kingcome TSA Brooks Block

Applicable Volume (m^3)	Appraisal Year	Area Unlogged (ha)
	2015	72.7

ATTACHMENTS

If submitting attachments as a single zip file, submit below.
Please check off below what attachments are contained in the zip file.

Attach File: ECAS_03March2015.zip

- [x] Appraisal Map
- [ ] Approved Request for a Approval of a Road Use Charge

Specified Operations:

- [ ] A-frame Logging
- [ ] Blowdown Timber
- [ ] Single Tree Selection
- [ ] Group Selection
- [ ] Skyline Logging
- [ ] Lake Transportation
- [ ] Skidder Swing
- [ ] Towing to Tie-up Grounds
- [ ] Camp Move
- [ ] Destumping
- [ ] Tree Crown Modification
- [x] Culvert Worksheet

Detailed Engineering

- [ ] Bridge Repairs
- [x] Construction Estimate Form #1
- [x] Construction Estimate Form #2
- [ ] Construction Estimate Form #3
- [ ] Construction Estimate Form #4
- [ ] Construction Estimate Form #5
- [ ] Greater than 5 Construction Estimate Forms

Cruise

- [ ] Cruise Compilation (.txt or .dat in ascii format for original & reduction data)
- [ ] Cruise Analysis Form (District Staff Only)
- [ ] Tenure Info. (District Staff Only)
- [ ] BC Timber Sales (FS 574) (BSTC Staff Only)
- [ ] Extended Road Amortization
- [x] Miscellaneous

If attaching individually, submit below.

	Electronic (Attached)	Paper Copy To Follow	NA	Attachment
Appraisal Map	❍	❍	●	
Approved Request for a Approval of a Road Use Charge	❍	❍	●	
Specified Operation				
A-frame Logging	❍	❍	●	
Blowdown Timber	❍	❍	●	
Single-Tree Selection	❍	❍	●	
Group Selection	❍	❍	●	
Skyline Logging	❍	❍	●	
Lake Transportation	❍	❍	●	
Skidder Swing	❍	❍	●	
Towing To Tie-up Grounds	❍	❍	●	
Camp Move	❍	❍	●	
Destumping	❍	❍	●	
Tree Crown Modification	❍	❍	●	
Culvert Worksheet	❍	❍	●	
Detailed Engineering				
Bridge Repairs	❍	❍	●	
Construction Estimate Form #1	❍	❍	●	
Construction Estimate Form #2	❍	❍	●	
Construction Estimate Form #3	❍	❍	●	
Construction Estimate Form #4	❍	❍	●	
Construction Estimate Form #5	❍	❍	●	
If there are more than 5 CEF's please attach the remainder as a ZIP file	❍	❍	●	
Engineering info to Support Detailed Engineering	❍	❍	●	
Extended Road Amortization	❍	❍	●	
Cruise				
Cruise Compilation (.txt or .dat in ascii format for original & reduction data)	●	❍	❍	T0629_AB_Cruise Info.zip
Cruise Analysis Form (District Staff Only)	❍	❍	●	
Tenure Info. (District Staff Only)	❍	❍	●	
BC Timber Sales (FS 574) (BCTS Staff Only)	❍	❍	●	
Miscellaneous				
	❍	❍	●	

Verbrugge, Cheryl FLNR:EX

From: DesRochers, Kathy A FLNR:EX
Sent: Monday, April 18, 2011 8:18 AM
To: Short, Robert W FLNR:EX; Grant, Cyndy L FLNR:EX
Cc: Beetham, Amy FLNR:EX
Subject: RE: Lions Gate TLs T0611, 615 and 629

FYI – FN consultation for the proposed extension of all 3 TLs has already occurred and has been forwarded to the Region for their consideration in the decision-making process. There were no outstanding issues associated with it.

From my perspective (the FN consultation world) – it was efficient to 'group' these three TLs into one extension package given that they are located very close to each other on the landscape, were affected by similar development constraints and do expire within a year of each other.

Kathy DesRochers, TFT
First Nations Consultation Coordinator
Ministry of Forests, Lands and Natural Resource Operations
(250) 956-5093 (tel)
(250) 956-5079 (fax)

From: Short, Robert W FLNR:EX
Sent: Friday, April 15, 2011 4:13 PM
To: Grant, Cyndy L FLNR:EX
Cc: Beetham, Amy FLNR:EX; DesRochers, Kathy A FLNR:EX; Short, Robert W FLNR:EX
Subject: FW: Lions Gate TLs T0611, 615 and 629

Hi Cyndy,

Do you see any reason for not having these Lions Gate TLs extended, I cannot? I notice that two of the TLs don't expire until April 2012.
It appears that the previous timber licence extensions occurred long after the TL expiry dates (I seem to remember that) so maybe that answers why we are extending TLs a full year in advance.

Please forward (to retain the attachments) your response to me as these TL operating files are electronic. Thanks.

Robert Short RPF
Authorizations Forester
North Island - Central Coast District
Ministry of Forests, Lands and Natural Resource Operations
(250) 956-5036 (250) 956-5079
mailto:Robert.Short@gov.bc.ca

From: Klassen, Geoffrey W FLNR:EX
Sent: Wednesday, April 13, 2011 9:48 AM

To: Short, Robert W FLNR:EX
Subject: Lions Gate TLs T0611, 615 and 629

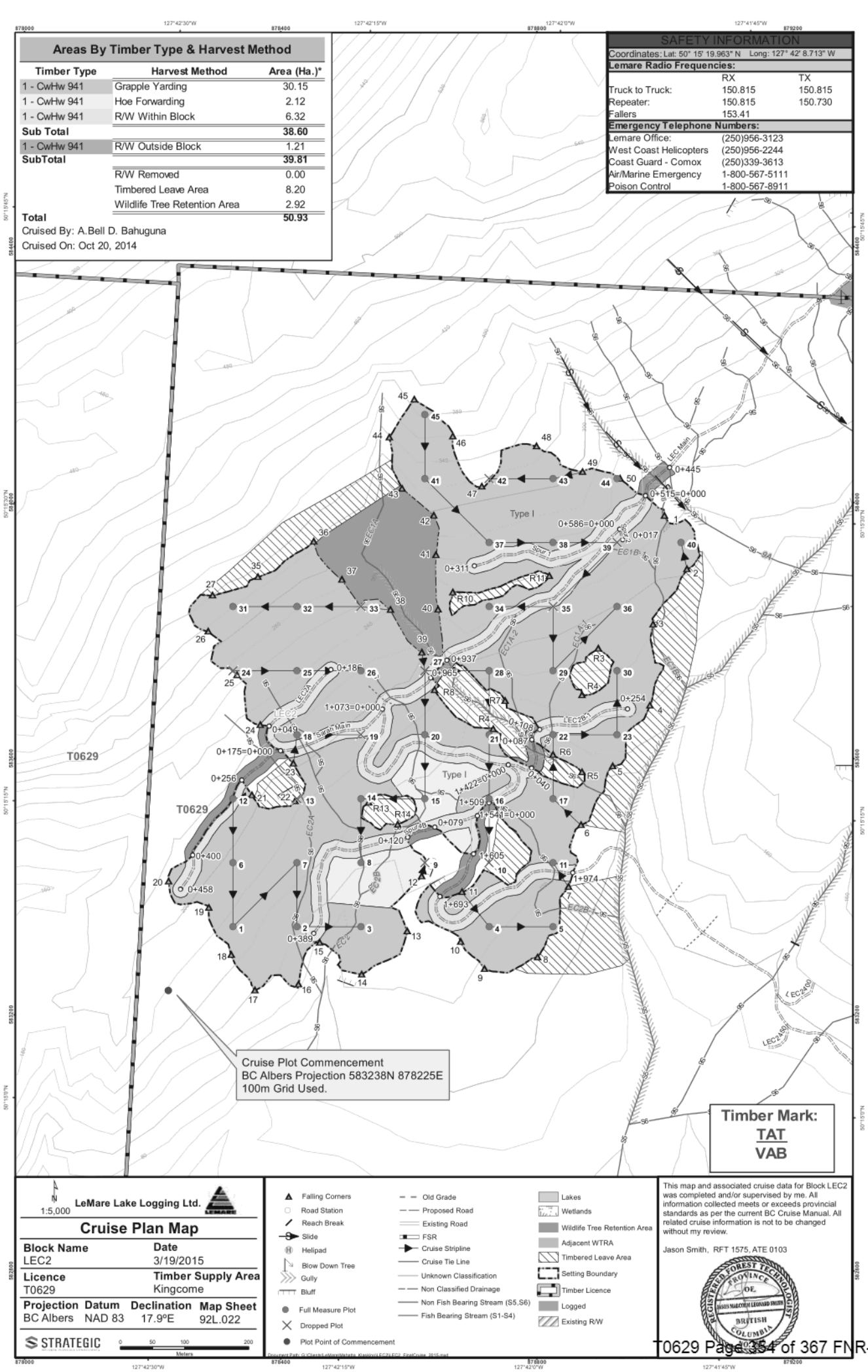
Rob,

Does the District have any concerns regarding the proposed extension of TLs T0611, 615 and 629? The extension application and location map is attached.

Regards,

Geoffrey Klassen, RPF
Tenures Forester - *Coast Area Tenures*
Ministry of Forests, Lands & Natural Resource Operations
2100 Labieux Road
Nanaimo, B.C.
V9T 6E9
Tel: 250.751.7068 Fax: 250.751.7190
Website: Coast Area Forest Tenures

<< File: Location Map.pdf >> << File: Lions Gate Forest Products Ltd. TO611, 615 & 629_Extension Letter_18Feb2011_signed.pdf >>


Areas By Timber Type & Harvest Method
Timber Type | Harvest Method | Area (Ha.)*
1 - CwHw 941 | Grapple Yarding | 30.15
1 - CwHw 941 | Hoe Forwarding | 2.12
1 - CwHw 941 | R/W Within Block | 6.32
Sub Total | | 38.60
1 - CwHw 941 | R/W Outside Block | 1.21
SubTotal | | 39.81
R/W Removed | 0.00
Timbered Leave Area | 8.20
Wildlife Tree Retention Area | 2.92
Total | | 50.93
Cruised By: A.Bell D. Bahuguna
Cruised On: Oct 20, 2014
SAFETY INFORMATION
Coordinates: Lat: 50° 15' 19.963" N Long: 127° 42' 8.713" W
Lemare Radio Frequencies:
RX TX
Truck to Truck: 150.815 150.815
Repeater: 150.815 150.730
Fallers 153.41
Emergency Telephone Numbers:
Lemare Office: (250)956-3123
West Coast Helicopters (250)956-2244
Coast Guard - Comox (250)339-3613
Air/Marine Emergency 1-800-567-5111
Poison Control 1-800-567-8911
Type I
T0629
Cruise Plot Commencement
BC Albers Projection 583238N 878225E
100m Grid Used.
Timber Mark:
TAT
VAB
1:5,000
LeMare Lake Logging Ltd.
Cruise Plan Map
Block Name: LEC2
Date: 3/19/2015
Licence: T0629
Timber Supply Area: Kingcome
Projection: BC Albers
Datum: NAD 83
Declination: 17.9°E
Map Sheet: 92L.022
STRATEGIC
Meters
Falling Corners
Road Station
Reach Break
Slide
Helipad
Blow Down Tree
Gully
Bluff
Full Measure Plot
Dropped Plot
Plot Point of Commencement
Old Grade
Proposed Road
Existing Road
FSR
Cruise Stripline
Cruise Tie Line
Unknown Classification
Non Classified Drainage
Non Fish Bearing Stream (S5,S6)
Fish Bearing Stream (S1-S4)
Lakes
Wetlands
Wildlife Tree Retention Area
Adjacent WTRA
Timbered Leave Area
Setting Boundary
Timber Licence
Logged
Existing R/W
This map and associated cruise data for Block LEC2 was completed and/or supervised by me. All information collected meets or exceeds provincial standards as per the current BC Cruise Manual. All related cruise information is not to be changed without my review.
Jason Smith, RFT 1575, ATE 0103
REGISTERED FOREST TECHNOLOGIST
PROVINCE OF BRITISH COLUMBIA
JASON MALCOLM LEONARD SMITH

TIMBER LICENCE T0629

CUTTING PERMIT AF

Ministry of Forests, Lands and Natural Resource Operations

PURSUANT TO Timber Licence T0629 (the "Licence") this Cutting Permit is issued to:

LIONS GATE FOREST PRODUCTS LTD.
POST OFFICE BOX 1700
PORT MCNEILL, BRITISH COLUMBIA
V0N 2R0
(the "Licensee")

1.00 PERMIT AREA AND TERM

1.01 Subject to the Licence and the forestry legislation, the Licensee is authorized to cut and remove timber from the area(s) of land within the harvest areas, **Cutblocks LEC15B** and **LEC3,** as delineated and shown on the attached Exhibit A maps.

1.02 Subject to Paragraph 1.03, and the term of the Licence, the term of this Cutting Permit begins on **January 27, 2016** and expires **April 26, 2018**.

1.03 Provided the Licence does not prohibit extensions, the District Manager may extend the term of this Cutting Permit in accordance with section 58.1 of the *Forest Act*.

1.04 Notwithstanding Paragraph 1.03, the term of this Cutting Permit will not exceed 4 years.

1.05 The Licensee must make application for an extension of this Cutting Permit to the District Manager at least 60 days before the expiry of the Cutting Permit and in a form acceptable to the District Manager.

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 TIMBER HARVESTING AND WASTE ASSESSMENT

3.01 The Licensee must not fell standing timber, or must not buck or remove felled or dead and down timber, as the case may be, if:

(a) the timber is specified as reserved timber in Paragraph 3.02 of this Cutting Permit; or

(b) under an applicable operational plan or the forestry legislation, the Licensee must not fell, buck or remove the timber, for silviculture, biodiversity or other forest management reasons.

3.02 The following timber is specified as reserved timber:

See Schedule B.

3.03 Subject to Paragraph 3.01, all timber that meets or exceeds the merchantability specifications set out in the Waste Assessment Manual and that is not removed by the Licensee may be identified in an assessment described in Paragraph 3.04 of this Cutting Permit and the volume of that timber, whether standing or felled, that could have been removed under the Licence, but which is not removed may be dealt with as if it had been removed for the purposes of calculating stumpage.

3.04 For the purpose of conducting the assessment of the volume of timber that was not removed, but which could have been removed as described in Paragraph 3.03 and for the purpose of determining the volume of timber that is waste for the purposes of Paragraph 3.05:

(a) the Licensee must conduct an assessment in accordance with the current Waste Assessment Manual after the Licensee has declared that primary logging (felling timber and yarding or forwarding the timber to central landings or road sides, but does not include removing the timber) has been completed for the Cutting Permit; or

(b) the District Manager may conduct an assessment in accordance with the current Waste Assessment Manual after the expiry of the term of the Cutting Permit or Licence or the Licence and/or Cutting Permit otherwise being terminated, whichever occurs first.

3.05 The District Manager, in a notice given to the Licensee, may require the Licensee to pay in respect of the volume of timber determined under Paragraph 3.04, a monetary waste assessment for all timber, whether standing or felled, that could have been removed under the Licence, but is not removed, and that meets or exceeds the merchantability specifications as set out in the current Waste Assessment Manual.

4.00 TIMBER MARK

4.01 The timber mark for this Cutting Permit is:

TATVAF

4.02 The Licensee shall erect signs at all exits from the harvest area, clearly showing the timber mark(s) referred to in Paragraph 4.01.

5.00 SCALE BASED STUMPAGE

5.01 For the purpose of determining the amount of stumpage payable in respect of timber removed from the harvest area, the volume or quantity of timber removed will be determined using information provided in a scale of the timber.

5.02 The Licensee must ensure that:

(a) all timber removed from the harvest area 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.

5.03 Immediately upon receipt of a notice, statement or invoice issued on behalf of the Crown, the Licensee must pay stumpage under Part 7 of the *Forest Act* at rates determined, redetermined and varied under section 105 of that Act for all timber removed from the harvest area or not removed and identified under part 3.00 of this Cutting Permit.

6.00 LEGISLATIVE FRAMEWORK

6.01 This Cutting Permit is subject to:

(a) the *Forest Act;*

(b) the *Forest Practices Code of British Columbia Act;*

(c) the *Forest and Range Practices Act*; and

(d) the regulations and standards made under those Acts.

6.02 The Licensee must:

(a) comply with the forestry legislation; and

(b) ensure that its employees, agents and contractors comply with the forestry legislation when engaging in or carrying out activities or operations under or associated with this Cutting Permit.

6.03 Nothing in this Cutting Permit is to be construed as authorizing the Licensee to cut or remove timber or engage in or carry out any other forest practices until all applicable operational plans for both the harvest area and any corresponding roads have been prepared or approved by the District Manager.

6.04 Nothing in this Cutting Permit is to be construed as authorizing the Licensee to carry out any operations or engage in any activities otherwise than in accordance with the requirements of the forestry legislation.

7.00 ROADS

7.01 The Licensee must ensure that all roads constructed or modified by or on behalf of the Licensee on the harvest area are:

(a) identified on a forest development plan or a forest stewardship plan and authorized under a road permit; or

(b) authorized under Paragraph 7.02.

7.02 Subject to the Licence and forestry legislation, the Licensee may construct or modify roads under the authority of this Cutting Permit on the harvest area if the roads are:

(a) identified on a logging plan;

(b) wholly contained within a cut block identified on a forest development plan; and

(c) not identified on a forest development plan or a forest stewardship plan as providing access to more than one cut block.

7.03 Subject to Paragraph 7.04, a road referred to in Paragraph 7.02 may be used for non-industrial purposes by any person without charge.

7.04 The Licensee may close or restrict use of a road referred to in Paragraph 7.02, if:

(a) in the opinion of the District Manager, activities or operations under or associated with this Cutting Permit represent a danger to life or property;

(b) the District Manager consents to the closure or restriction; and

(c) the Licensee complies with any directions of the District Manager with respect to the closure or restriction, including directions regarding the location and marking of gates and the posting of warning notices.

8.00 MISCELLANEOUS

8.01 The Schedules and Exhibit "A" map(s) attached to this Cutting Permit are deemed to be part of this Cutting Permit.

8.02 This Cutting Permit is deemed to be part of the Licence.

8.03 The Licence will govern the interpretation of this Cutting Permit.

8.04 The Licensee must notify the District Manager in writing in a form acceptable to the District Manager, when all harvest related obligations are complete.

9.00 INTERPRETATION

9.01 In this Cutting Permit:

"forestry legislation" means the legislation outlined in Paragraph 6.01 of this Cutting Permit;

"harvest area" means the area or areas allocated for the activities conducted by the Licensee pursuant to the Licence and this Cutting Permit and which for greater detail are outlined on the attached Exhibit "A" map(s);

"remove" means the removal of timber from the harvest area and "removed" and "removing" have the corresponding meanings;

"waste" means timber, whether standing or felled, that could have been removed under the Cutting Permit but was not removed, and which meets or exceeds the specifications of timber merchantability as stated in the Waste Assessment Manual, and as determined in accordance with the Waste Assessment Manual; and

"Waste Assessment Manual" means the "Provincial Logging Residue and Waste Measurement Procedures Manual".

_____

Andrew Ashford, RPF, District Manager
North Island – Central Coast Forest District

SCHEDULE A

SPECIAL CONDITIONS AND REQUIREMENTS

1.00 ORDERLY CONDITIONS

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

2.00 HAZARD TREES

2.01 The Licensee may cut and remove hazard trees from within fifty (50) metres of the boundaries of the cutblocks' total merchantable area.

2.02 The Licensee may fell trees outside of the cutblocks' boundaries but within the area described in Paragraph 2.01 if the person conducting tree felling or rigging tail hold/anchor trees determines that the tree represents a safety hazard according to the Worker's Compensation Board standards.

2.03 Trees felled under Paragraph 2.01 and Paragraph 2.02 shall be bucked and utilized according to the specifications included in the Licence and/or Cutting Permit.

3.00 TREE CROWN MODIFICATION

3.01 The Licensee may cut, damage or modify the crowns of the trees located outside the boundaries of the total merchantable area of the cutblocks identified on the attached Exhibit "A" maps and the locations and areas of those specified trees are indicated coloured in pink and identified as "Windfirm" in the legend on the appraisal maps attached to the appraisal for this cutting permit. The purpose of the modification of the crowns of the aforementioned trees is to reduce the risk of damage by wind and hence windfallen timber at the cutblocks' boundaries and beyond.

4.00 OTHER RIGHTS

4.01 The Licensee's rights under this Permit are subject to any other rights of use and occupation over the Permit Area and the Clearing Area which the Crown has granted to third parties and the Licensee covenants not to obstruct or impede a third party in their authorized use or occupation of these areas.

4.02 Except where a mineral reserve established under section 22 (2) of the *Mineral Tenure Act* allows otherwise, the Licensee covenants and agrees not to obstruct or impede the use of tenures which have been, or which may be, issued to third parties under the *Mineral Tenure Act*.

4.03 In consideration of the foregoing, the Licensee agrees to indemnify and save harmless the Crown from and against all claims for loss or damage, whether caused by the Licensee's acts or omissions, including losses or damages arising out of the Licensee's interference or obstruction of a third party's authorized use, or occupation of the Permit Area or Clearing Area.

SCHEDULE B

RESERVED TIMBER

The following is specified as reserved timber under this cutting permit:

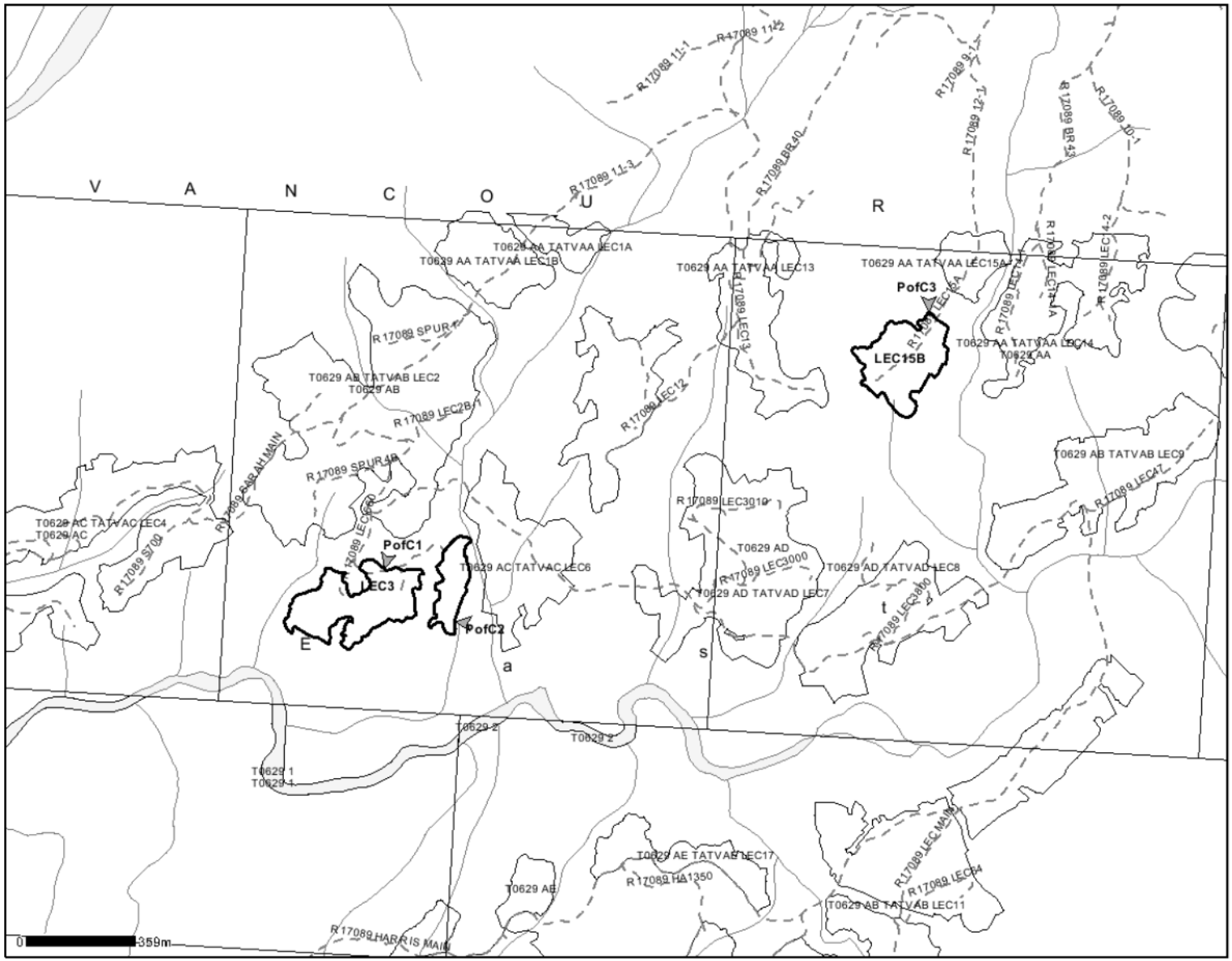
The areas cross-hatched in teal green, located within Cutblock LEC3, identified as TLA(Timbered Leave Area) in the legend indicated on the appraisal map, for that cutblock, attached to the appraisal for this cutting permit.

BRITISH COLUMBIA

Ministry of Forests, Lands and Natural Resource Operations

EXHIBIT A

MAP OF : T0629 CP AF (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RUPERT DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : Outside Managed Units MGT UNIT NO :
ESF SUBMISSION ID : 1467814 BCGS MAPSHEET NO : 92L.022	SCALE : 1:20000 at A Size Area (Ha): 15.455	UTM : 9 NAD : NAD 83	DRAWN BY : FTA DATE : Dec 9, 2015



Legend

- Tenure Application
- Tenure Road Application
- Retired Tenure Road
- P of C
- P of T
- Tenure Feature
- Range
- TFL
- Provincial Forest
- Forest Service Road
- Highway
- Municipal Road
- Non Status Road
- Recreation Trails
- Road Permit
- SUP Road
- Right of Way
- Schedule B CP Road
- Mineral Tenure Points
- Cities
- Waterbodies
- River/Stream
- Coastline / Island

LEC3 (9.441 Ha)
PofC1 UTM9 592569, 5567346
PofC2 UTM9 592807, 5567183
LEC15B (6.014 Ha)
PofC3 UTM9 594313, 5568258

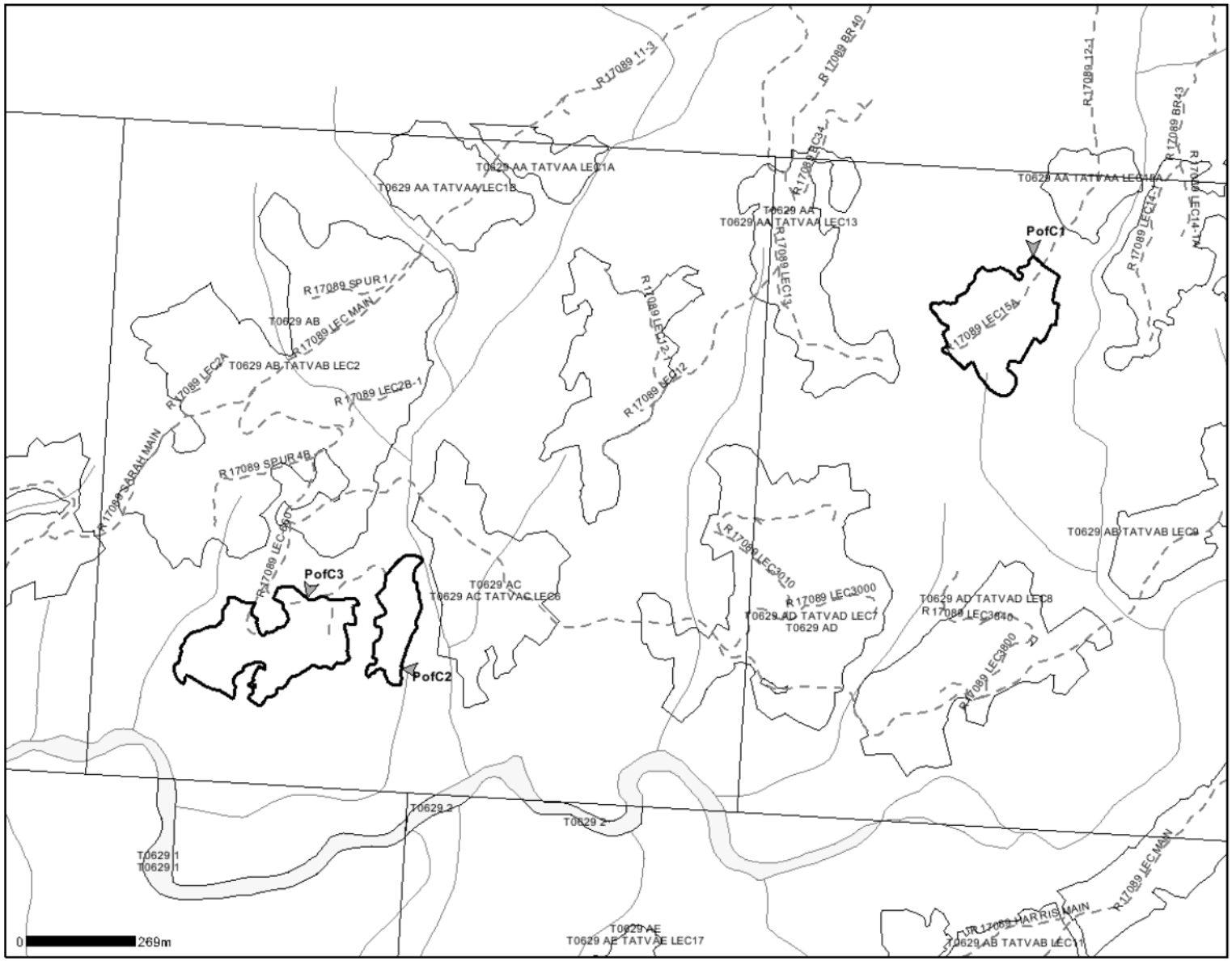
Inside Timber Licence T0629
Save and Except the prior rights of R17089

REVIEWED
By Cyndi Schofield at 1:38 pm, Dec 17, 2015

BRITISH COLUMBIA

EXHIBIT A

MAP OF : T0629 CP AF (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RUPERT DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : Outside Managed Units MGT UNIT NO :
ESF SUBMISSION ID : 1467814 BCGS MAPSHEET NO : 92L.022	SCALE : 1:15000 at A Size Area (Ha): 15.455	UTM : 9 NAD : NAD 83	DRAWN BY : FTA DATE : Dec 9, 2015



Legend

- Tenure Application
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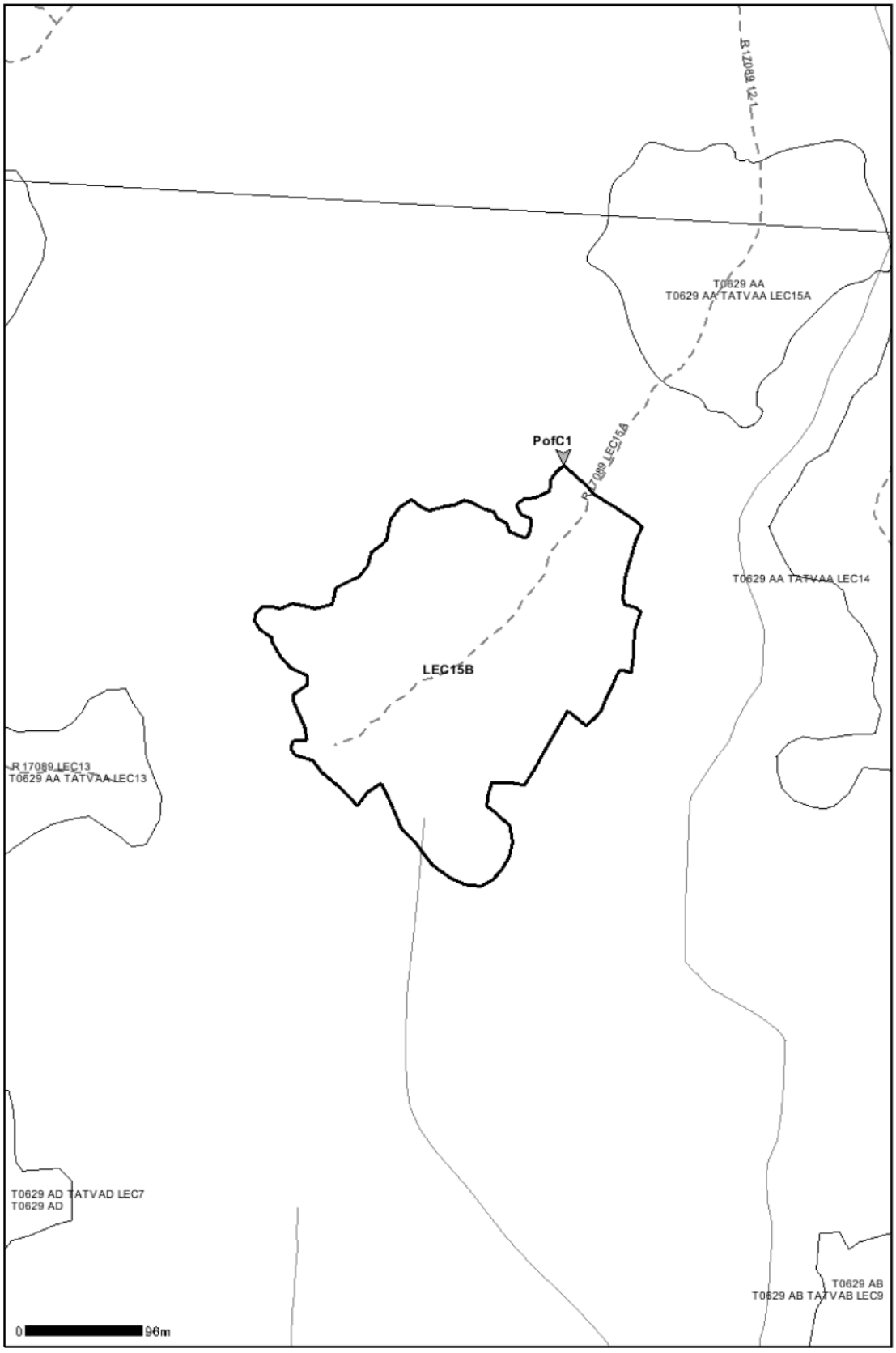
- SUP Road
- Right of Way
- Schedule B CP Road
- Mineral Tenure Points
- Cities
- Waterbodies
- River/Stream
- Coastline / Island

(15.455 Ha)
PofC1 UTM9 594313, 5568258
PofC2 UTM9 592807, 5567183
PofC3 UTM9 592569, 5567346

BRITISH COLUMBIA

EXHIBIT A

MAP OF : T0629 CP AF CB LEC15B (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RUPERT DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : Outside Managed Units MGT UNIT NO :
ESF SUBMISSION ID : 1467814 BCGS MAPSHEET NO : 92L.022	SCALE : 1:5000 at A Size Area (Ha): 6.014	UTM : 9 NAD : NAD 83	DRAWN BY : FTA DATE : Dec 9, 2015



Legend

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- Recreation Trails
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- SUP Road
- Right of Way
- Schedule B CP Road
- Mineral Tenure Points
- Cities
- Waterbodies
- River/Stream
- Coastline / Island

LEC15B (6.014 Ha)
PofC1 UTM9 594313, 5568258

BRITISH COLUMBIA

EXHIBIT A

MAP OF : T0629 CP AF CB LEC3 (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RUPERT DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : Outside Managed Units MGT UNIT NO :
ESF SUBMISSION ID : 1467814 BCGS MAPSHEET NO : 92L.022	SCALE : 1:5000 at A Size Area (Ha): 9.441	UTM : 9 NAD : NAD 83	DRAWN BY : FTA DATE : Dec 9, 2015

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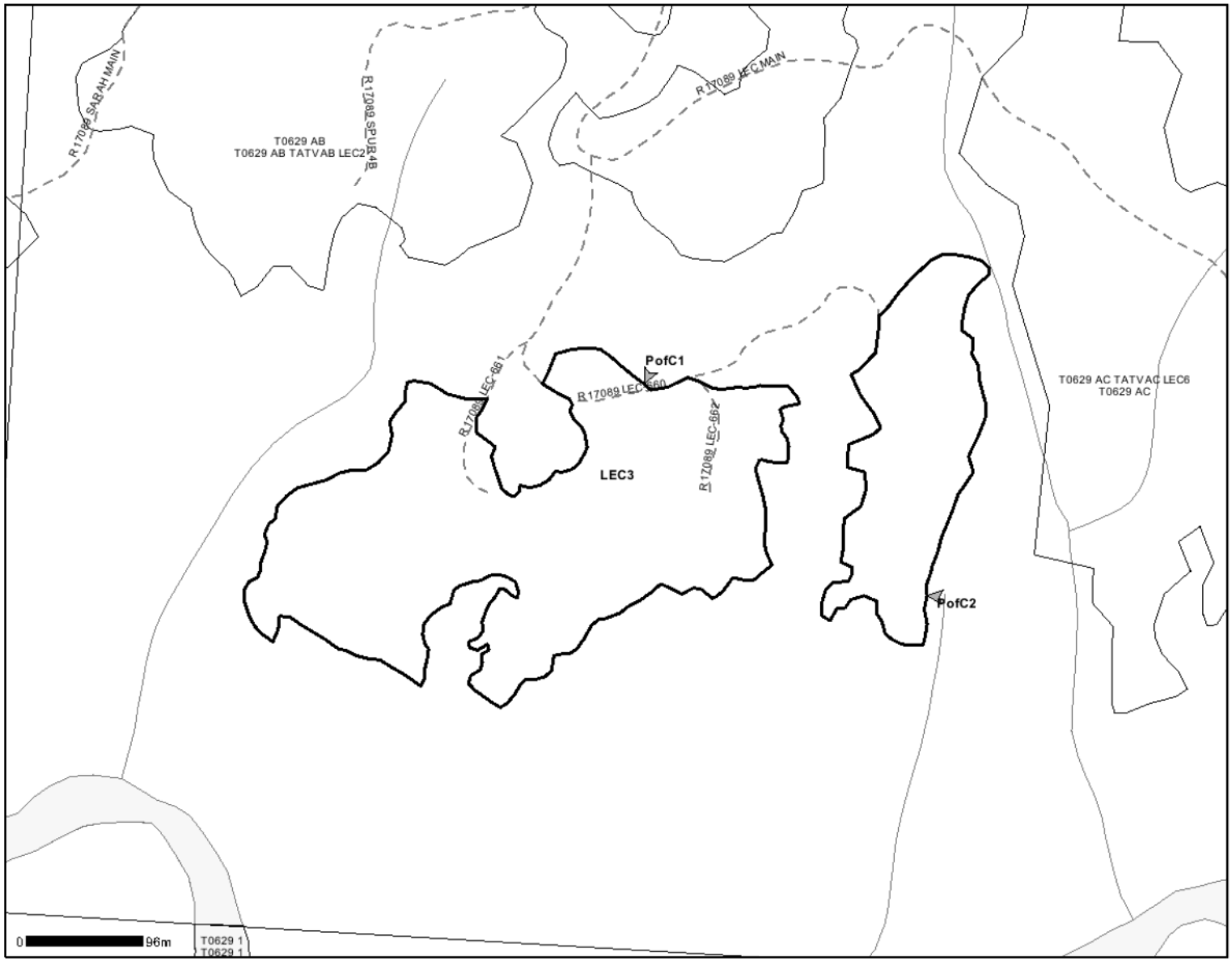

Legend

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- Mineral Tenure Points
- Cities
- Waterbodies
- River/Stream
- Coastline / Island

LEC3 (9.441 Ha)
PofC1 UTM9 592569, 5567346
PofC2 UTM9 592807, 5567183

FOREST LICENCE A59539
CUTTING PERMIT 007

Ministry of Forests, Lands and Natural Resource Operations

PURSUANT TO Forest Licence A59539 (the "Licence"), this Cutting Permit is issued to:

LEMARE LAKE LOGGING LTD.
POST OFFICE BOX 609
PORT MCNEILL, BRITISH COLUMBIA
V0N 2R0
(the "Licensee")

1.00 PERMIT AREA AND TERM

1.01 Subject to the Licence, the Licensee is authorized to cut and remove the Crown timber from the areas, **Cutblocks LEC17** and **EC38,** of land as shown on the attached Exhibit "A" maps (the "harvest area").

1.02 Subject to the term of the Licence, the term of this Cutting Permit **begins** on **October 29, 2015** and **ends on October 11, 2017.**

1.03 The Licensee must make application for an extension of this Cutting Permit to the District Manager at least 60 days before the expiry of the Cutting Permit and in a form as acceptable to the District Manager.

2.00 OTHER 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 TIMBER MARK

3.01 The timber mark for the timber removed under this Cutting Permit is:

GD8007

3.02 The Licensee must erect signs at all exits from areas of land referred to in Paragraph 1.01, clearly showing the timber mark referred to in Paragraph 3.01.

4.00 SCALE-BASED STUMPAGE

4.01 For the purpose of determining the amount of stumpage payable in respect of timber removed from the harvest area, the volume or quantity of timber removed will be determined using information provided in a scale of the timber.

4.02 The Licensee must ensure that:

(a) all timber removed from the harvest area 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.

4.03 The Licensee must pay to the Government, immediately upon receipt of a notice, statement or invoice issued on behalf of the Government:

(a) stumpage under part 7 of the *Forest Act* at rates determined, redetermined and varied under section 105 of that Act in respect of timber removed under this Cutting Permit; and

(b) any payment required as a result of a waste assessment under part 6.00 of this Cutting Permit.

5.00 ROADS

5.01 Subject to the Licence and the forestry legislation, the Licensee may use, construct, maintain or deactivate roads on the areas covered by this Cutting Permit.

6.00 TIMBER HARVEST

6.01 The Licensee must not harvest timber if the timber is specified as reserved timber in Schedule "B", or under an applicable operational plan or the forestry legislation.

6.02 Subject to Paragraph 6.01, all standing or felled timber that meets or exceeds the cut control specifications and that could have been removed under the Cutting Permit, but which is not removed may be dealt with as if it had been removed for the purposes of determining the volume of timber harvested under the Cutting Permit.

6.03 Subject to Paragraph 6.01, the quantity and quality of:

(a) merchantable Crown timber that could have been harvested under this Cutting Permit but at the Licensee's discretion was not harvested; and

(b) timber estimated to be wasted or damaged under this Cutting Permit for the purpose of section 75.1 (2) (b) of the *Forest Act*; will be determined in accordance with the provisions of Provincial Logging Residue and Waste Measurement Procedures Manual, as amended or replaced from time to time.

6.04 The District Manager, in a notice given to the Licensee, may require the Licensee to pay in respect of the volume of timber determined under Paragraph 6.03, a monetary assessment for all waste.

6.05 The amount of money that the Licensee must pay under a waste assessment will be determined in accordance with the provisions of the Provincial Logging Residue and Waste Measurements Procedures Manual as they are at the time the quantity and quality of merchantable Crown timber is determined under Paragraph 6.03.

6.06 For the purpose of conducting the assessment of the volume of timber that was not harvested as described in Paragraph 6.03:

(a) the Licensee must conduct an assessment in accordance with the current Provincial Logging Residue and Waste Measurement Procedures Manual after the Licensee has declared that primary logging has been completed for each cut block; or

(b) the Regional Manager or District Manager may conduct an assessment in accordance with the current Provincial Logging Residue and Waste Measurement Procedures Manual after the expiry of the term of this Cutting Permit or Licence or the Licence and/or Cutting Permit otherwise being terminated, whichever occurs first.

7.00 MISCELLANEOUS

7.01 The Schedules and Exhibit "A" map(s) 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.

7.04 The Licensee must notify the District Manager in writing in a form acceptable to the District Manager, when all harvest related obligations are complete.

8.00 INTERPRETATION & DEFINITIONS

8.01 In this Cutting Permit, unless the context otherwise requires, the following definitions apply:

"District Manager" means the person who enters into this permit or manages this permit on behalf of the Government and who must be either:

(a) a District Manager appointed under the *Ministry of Forests and Range Act*, for a forest district in which all or part of the harvest area is situated; or

(b) any person authorized to exercise a power or fulfill a duty under the Licence;

"forestry legislation" means:

(a) the *Forest Act*;

(b) the *Forest Practices Code of British Columbia Act*;

(c) the *Forest and Range Practices Act*; and

(d) the regulations and standards made under those Acts;

"harvest area" means the area or areas allocated for the activities pursuant to the Licence and this Cutting Permit and which for greater detail are outlined on the attached Exhibit "A" map(s);

"remove" means the removal of timber from the harvest area and "removed" and "removing" have the corresponding meanings;

"cut control specifications" means the specifications for timber that may be removed pursuant to the Licence as set out in Schedule "C" to this Cutting Permit;

"total merchantable area" means the total merchantable area as indicated in the appraisal for this cutting permit.

_____

Andrew Ashford, RPF, District Manager
North Island – Central Coast Forest District

SCHEDULE A

OTHER CONDITIONS AND REQUIREMENTS

1.00 ORDERLY CONDITIONS

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

2.00 HAZARD TREES

2.01 The Licensee may cut and remove hazard trees from within fifty (50) metres of the boundaries of the cutblocks' total merchantable area.

2.02 The Licensee may fell trees outside of the cutblocks' boundaries but within the area described in Paragraph 2.01 if the person conducting tree felling or rigging tail hold/anchor trees determines that the tree represents a safety hazard according to the Worker's Compensation Board standards.

2.03 Trees felled under Paragraph 2.01 and Paragraph 2.02 shall be bucked and utilized according to the specifications included in the Licence and/or Cutting Permit.

3.00 OTHER RIGHTS

3.01 The Licensee's rights under this Permit are subject to any other rights of use and occupation over the Permit Area and the Clearing Area which the Crown has granted to third parties and the Licensee covenants not to obstruct or impede a third party in their authorized use or occupation of these areas.

3.02 Except where a mineral reserve established under section 22 (2) of the *Mineral Tenure Act* allows otherwise, the Licensee covenants and agrees not to obstruct or impede the use of tenures which have been, or which may be, issued to third parties under the *Mineral Tenure Act*.

3.03 In consideration of the foregoing, the Licensee agrees to indemnify and save harmless the Crown from and against all claims for loss or damage, whether caused by the Licensee's acts or omissions, including losses or damages arising out of the Licensee's interference or obstruction of a third party's authorized use, or occupation of the Permit Area or Clearing Area.

SCHEDULE B
RESERVED TIMBER

The following is specified as reserved timber under this cutting permit:

The areas cross-hatched in teal green colour identified as TLA(Timbered Leave Area) indicated on the final cruise maps attached to the appraisal for this cutting permit.

SCHEDULE C

1.00 CUT CONTROL SPECIFICATIONS

1.01 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 as set out in part 2.00 of this Schedule; and

(ii) in the case of a butt log, the diameter (outside bark) at the butt end of the log;

(d) "slab" means one of two 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; and

(g) "top log" means any log that is not a butt log.

1.02 The following are the cut control specifications for the Cutting Permit:

(a) all butt logs fitting the requirements of Paragraph 1.03 under this Schedule and 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 set out in part 2.00 of this Schedule; and

(b) all top logs fitting the requirements of Paragraph 1.03 in this Schedule and meeting:

(i) the minimum log length; and

(ii) the minimum top diameter;

shown for that species in the table set out in part 2.00 of this Schedule; and

(c) all slabs fitting the requirements of Paragraph 1.03 in this Schedule and meeting:

(i) the minimum slab length; and

(ii) the minimum slab thickness;

shown for that species in the table set out in part 2.00 of this Schedule; and

(d) the volume of all stumps, left after the timber has been cut that exceed the maximum stump height shown for that species in the table set out in part 2.00 of this Schedule.

1.03 Timber of the following species and grades are specified as meeting or exceeding cut control specifications:

(a) N/A

2.00 TABLE

2.01 For the purposes of identification of timber meeting the cut control specifications, the following specifications will be used:

Species	Max. Stump Height (cm)	Min. Diameter at Stump Height (cm)	Min Log Length (m)	Min. Top Diameter (cm)	Min. Slab Length (m)	Min. Slab Thickness (cm)
All -Mature	30 cm	N/A	3 m	15 cm	3 m	15 m
All - Immature	30 cm	N/A	3 m	15 cm	3 m	10 m

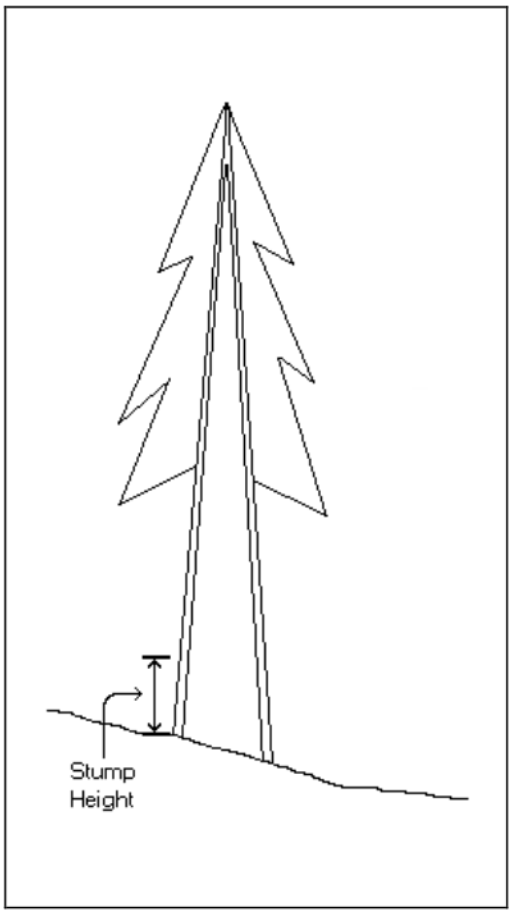
Notes:

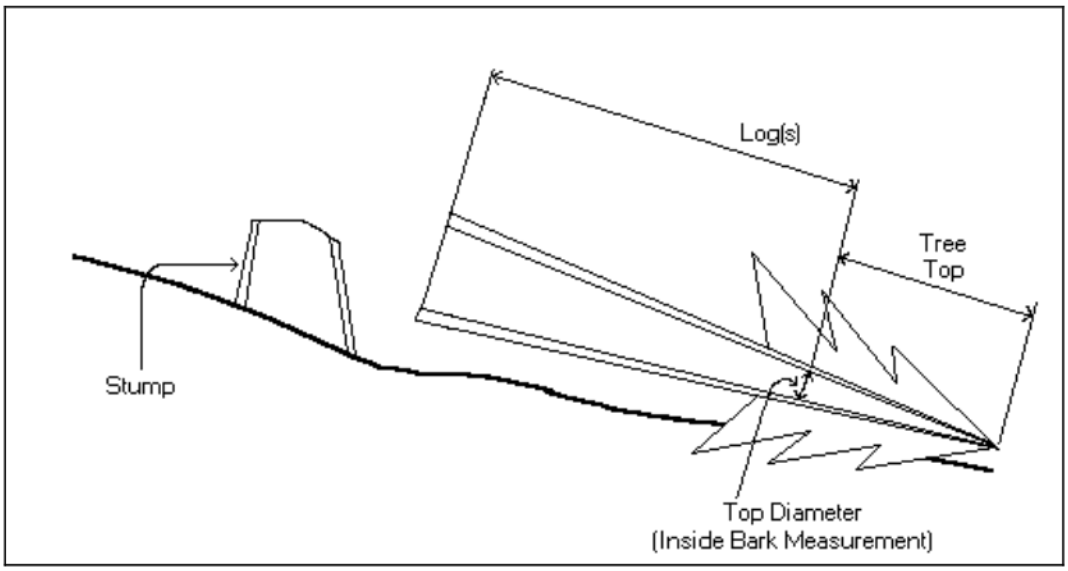
1. In the table above: Min. = Minimum and Max. = Maximum.
2. For clarification of terms see attached diagrams.
3. “mature” means timber which has an average age of 121 years or older.
4. “immature” means timber which has an average age of less than 121 years.

SCHEDULE C

Diagrams for Blocks LEC17 and EC38

1. Cut Control Specifications

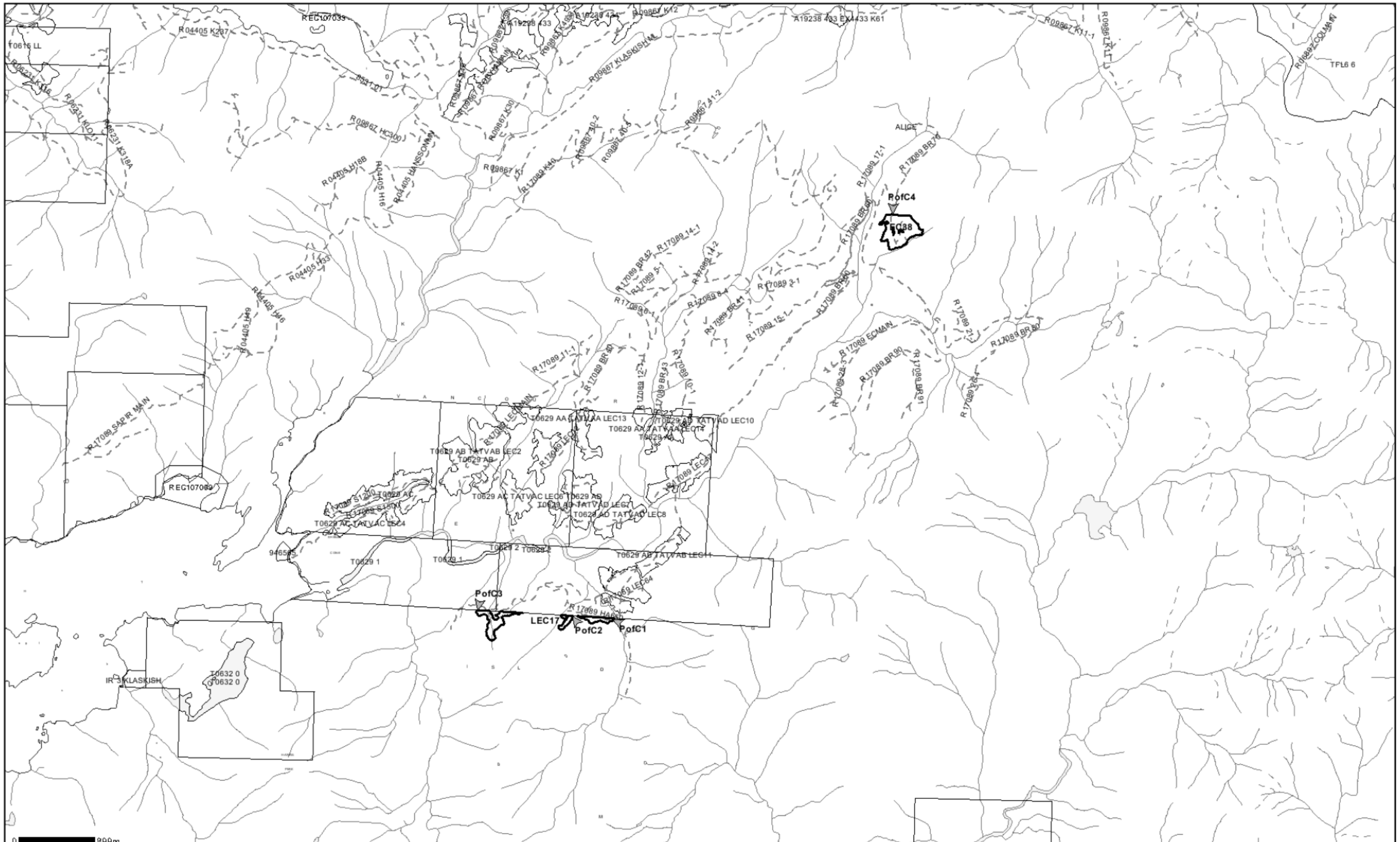




Ministry of Forests, Lands and Natural Resource Operations

EXHIBIT A

MAP OF : A59539 CP 007 (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RUPERT DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : TIMBER SUPPLY AREA MGT UNIT NO : 33
ESF SUBMISSION ID : 1440225 BCGS MAPSHEET NO : 92L.022	SCALE : 1:50000 at B Size Area (Ha): 21.065	UTM : 9 NAD : NAD 83	DRAWN BY : FTA DATE : Jul 28, 2015



Legend

- Tenure Application
- Tenure Road Application
- Retired Tenure Road
- P of C
- P of T
- Tenure Feature
- Range
- TFL
- Provincial Forest
- Forest Service Road
- Highway
- Municipal Road
- Non Status Road
- Recreation Trails
- Road Permit
- SUP Road
- Right of Way
- Schedule B CP Road
- Mineral Tenure Points
- Cities
- Waterbodies
- River/Stream
- Coastline / Island

LEC17 (8.333 Ha)
PofC1 UTM9 594194, 5566037
PofC2 UTM9 593722, 5566054
PofC3 UTM9 592608, 5566077
EC38 (12.732 Ha)
PofC4 UTM9 597285, 5570922
PofC5 UTM9 597300, 5570701
PofC6 UTM9 597399, 5570744
PofC7 UTM9 597389, 5570738

Inside TSA 33 Referral: Mineral Tenures 847600 & 847597 Save and Except the prior rights of: R17089 & adjacent T0629 CP AE

Inside TSA 33 Referral: Mineral Tenures 847600 & 847597
Save and Except the prior rights of:
R17089 & adjacent T0629 CP AE

REVIEWED
By Cyndi Schofield at 9:09 am, Oct 01, 2015

BRITISH COLUMBIA

EXHIBIT A

MAP OF : A59539 CP 007 CB EC38 (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RUPERT DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : TIMBER SUPPLY AREA MGT UNIT NO : 33
ESF SUBMISSION ID : 1440225 BCGS MAPSHEET NO : 92L.022	SCALE : 1:5000 at A Size Area (Ha): 12.732	UTM : 9 NAD : NAD 83	DRAWN BY : FTA DATE : Jul 28, 2015

Legend

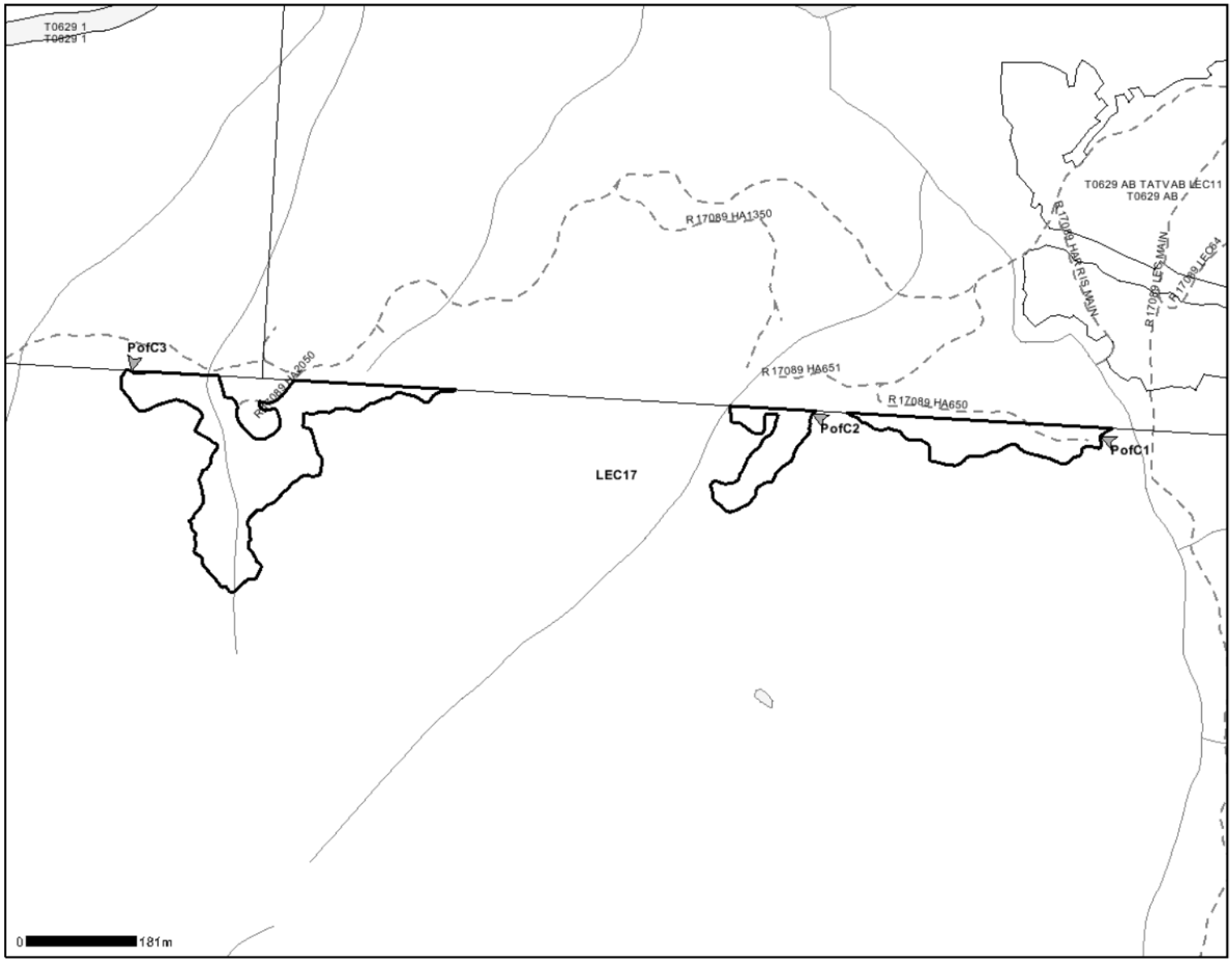
- Tenure Application
- Tenure Road Application
- Retired Tenure Road
- P of C
- P of T
- Tenure Feature
- Range
- TFL
- Provincial Forest
- Forest Service Road
- Highway
- Municipal Road
- Non Status Road
- Recreation Trails
- Road Permit
- SUP Road
- Right of Way
- Schedule B CP Road
- Mineral Tenure Points
- Cities
- Waterbodies
- River/Stream
- Coastline / Island

EC38 (12.732 Ha)
PofC1 UTM9 597285, 5570922
PofC2 UTM9 597300, 5570701
PofC3 UTM9 597399, 5570744
PofC4 UTM9 597389, 5570738

BRITISH COLUMBIA

EXHIBIT A

MAP OF : A59539 CP 007 CB LEC17 (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RUPERT DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : TIMBER SUPPLY AREA MGT UNIT NO : 33
ESF SUBMISSION ID : 1440225 BCGS MAPSHEET NO : 92L.022	SCALE : 1:10000 at A Size Area (Ha): 8.333	UTM : 9 NAD : NAD 83	DRAWN BY : FTA DATE : Jul 28, 2015



Legend

- Tenure Application
- Tenure Road Application
- Retired Tenure Road
- P of C
- P of T
- Tenure Feature
- Range
- TFL
- Provincial Forest
- Forest Service Road
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- SUP Road
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- Schedule B CP Road
- Mineral Tenure Points
- Cities
- Waterbodies
- River/Stream
- Coastline / Island

LEC17 (8.333 Ha)
PofC1 UTM9 594194, 5566037
PofC2 UTM9 593722, 5566054
PofC3 UTM9 592608, 5566077

BRITISH COLUMBIA

EXHIBIT A

MAP OF : A59539 CP 007 (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RUPERT DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : TIMBER SUPPLY AREA MGT UNIT NO : 33
ESF SUBMISSION ID : 1440225 BCGS MAPSHEET NO : 92L.022	SCALE : 1:50000 at B Size Area (Ha): 21.065	UTM : 9 NAD : NAD 83	DRAWN BY : FTA DATE : Jul 28, 2015

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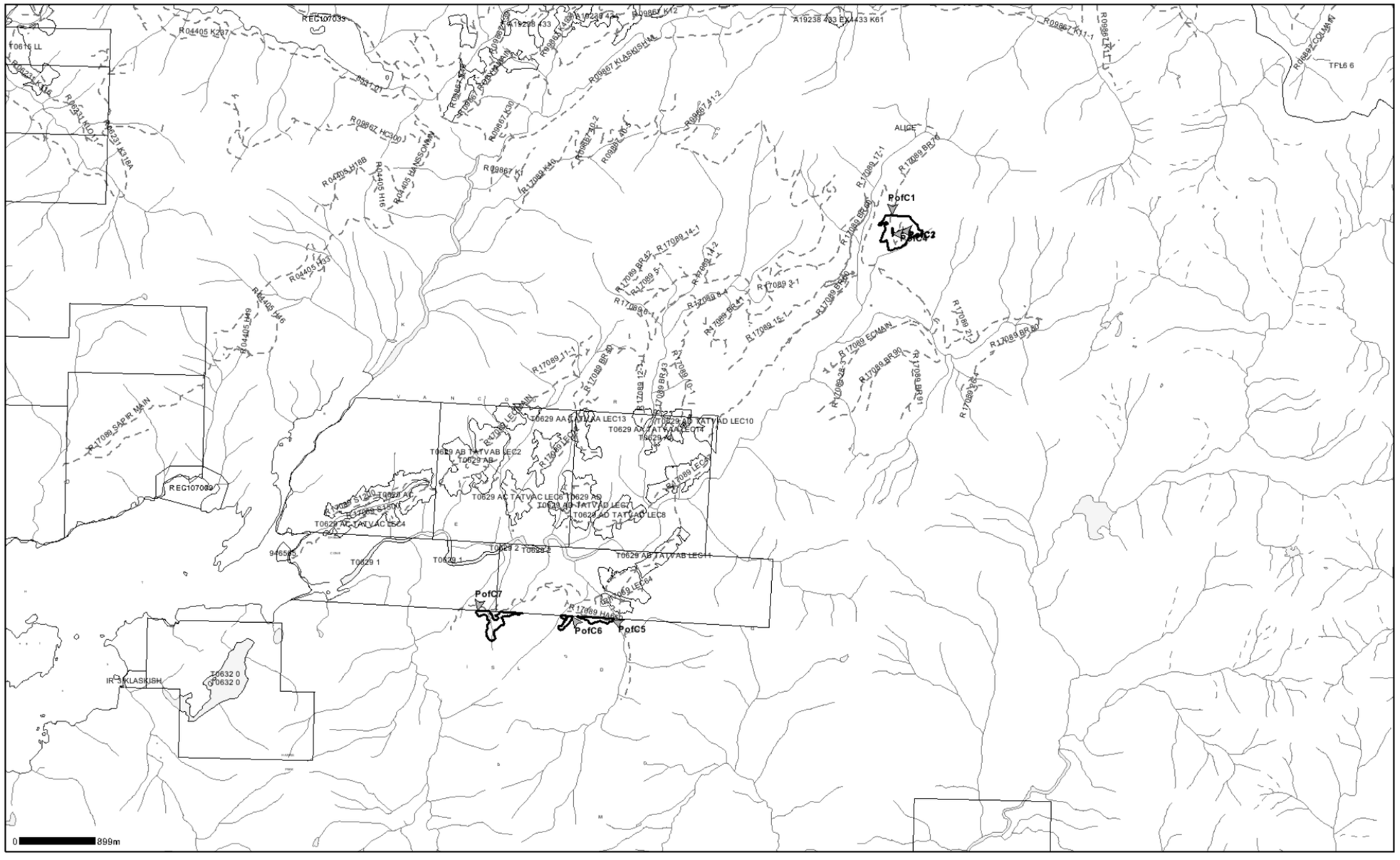

Legend

- Tenure Application
- Tenure Road Application
- Retired Tenure Road
- P of C
- P of T
- Tenure Feature
- Range
- TFL
- Provincial Forest
- Forest Service Road
- Highway
- Municipal Road
- Non Status Road
- Recreation Trails
- Road Permit
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- Right of Way
- Schedule B CP Road
- Mineral Tenure Points
- Cities
- Waterbodies
- River/Stream
- Coastline / Island

(21.065 Ha)
PofC1 UTM9 597285, 5570922
PofC2 UTM9 597399, 5570744
PofC3 UTM9 597389, 5570738
PofC4 UTM9 597300, 5570701
PofC5 UTM9 594194, 5566037
PofC6 UTM9 593722, 5566054
PofC7 UTM9 592608, 5566077

FOREST LICENCE A59539
CUTTING PERMIT 008

Ministry of Forests, Lands and Natural Resource Operations

PURSUANT TO Forest Licence A59539 (the "Licence"), this Cutting Permit is issued to:

LEMARE LAKE LOGGING LTD.
POST OFFICE BOX 609
PORT MCNEILL, BRITISH COLUMBIA
V0N 2R0
(the "Licensee")

1.00 PERMIT AREA AND TERM

1.01 Subject to the Licence, the Licensee is authorized to cut and remove the Crown timber from the area, **Cutblock LEC18,** of land as shown on the attached Exhibit "A" maps, the "harvest area".

1.02 Subject to the term of the Licence, the term of this Cutting Permit **begins** on **December 17, 2015** and **ends** on **October 11, 2017.**

1.03 The Licensee must make application for an extension of this Cutting Permit to the District Manager at least 60 days before the expiry of the Cutting Permit and in a form acceptable to the District Manager.

2.00 OTHER 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 TIMBER MARK

3.01 The timber mark for the timber removed under this Cutting Permit is:

GD8008

3.02 The Licensee must erect signs at all exits from the areas of land referred to in Paragraph 1.01, clearly showing the timber mark referred to in Paragraph 3.01.

4.00 SCALE-BASED STUMPAGE

4.01 For the purpose of determining the amount of stumpage payable in respect of timber removed from the harvest area, the volume or quantity of timber removed will be determined using information provided in a scale of the timber.

4.02 The Licensee must ensure that:

(a) all timber removed from the harvest area 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.

4.03 The Licensee must pay to the Government, immediately upon receipt of a notice, statement or invoice issued on behalf of the Government:

(a) stumpage under Part 7 of the *Forest Act* at rates determined, redetermined and varied under section 105 of that Act in respect of timber removed under this Cutting Permit; and

(b) any payment required as a result of a waste assessment under Part 6.00 of this Cutting Permit.

5.00 ROADS

5.01 Subject to the Licence and the forestry legislation, the Licensee may use, construct, maintain or deactivate roads on the areas covered by this Cutting Permit.

6.00 TIMBER HARVEST AND WASTE ASSESSMENTS

6.01 The Licensee must not harvest timber if the timber is specified as reserved timber in Schedule "B", or under an applicable operational plan or the forestry legislation.

6.02 Subject to Paragraph 6.01, all standing or felled timber that meets or exceeds the cut control specifications and that could have been removed under the Cutting Permit, but which is not removed may be dealt with as if it had been removed for the purposes of determining the volume of timber harvested under the Cutting Permit.

6.03 Subject to Paragraph 6.01, the quantity and quality of:

(a) merchantable Crown timber that could have been harvested under this Cutting Permit but at the Licensee's discretion was not harvested; and

(b) timber estimated to be wasted or damaged under this Cutting Permit for the purpose of section 75.1 (2) (b) of the *Forest Act*; will be determined in accordance with the provisions of Provincial Logging Residue and Waste Measurement Procedures Manual, as amended or replaced from time to time.

6.04 The District Manager, in a notice given to the Licensee, may require the Licensee to pay in respect of the volume of timber determined under Paragraph 6.03, a monetary assessment for all waste.

6.05 The amount of money that the Licensee must pay under a waste assessment will be determined in accordance with the provisions of the Provincial Logging Residue and Waste Measurements Procedures Manual as they are at the time the quantity and quality of merchantable Crown timber is determined under Paragraph 6.03.

6.06 For the purpose of conducting the assessment of the volume of timber that was not harvested as described in Paragraph 6.03:

(a) the Licensee must conduct an assessment in accordance with the current Provincial Logging Residue and Waste Measurement Procedures Manual after the Licensee has declared that primary logging has been completed for each cut block; or

(b) the Regional Manager or District Manager may conduct an assessment in accordance with the current Provincial Logging Residue and Waste Measurement Procedures Manual after the expiry of the term of this Cutting Permit or Licence or the Licence and/or Cutting Permit otherwise being terminated, whichever occurs first.

7.00 MISCELLANEOUS

7.01 The Schedules and Exhibit "A" map(s) 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.

7.04 The Licensee must notify the District Manager in writing in a form acceptable to the District Manager, when all harvest related obligations are complete.

8.00 INTERPRETATION & DEFINITIONS

8.01 In this Cutting Permit, unless the context otherwise requires, the following definitions apply:

"District Manager" means the person who enters into this permit or manages this permit on behalf of the Government and who must be either:

(a) a District Manager appointed under the *Ministry of Forests and Range Act*, for a forest district in which all or part of the harvest area is situated; or

(b) any person authorized to exercise a power or fulfill a duty under the Licence;

"forestry legislation" means:

(a) the *Forest Act*;

(b) the *Forest Practices Code of British Columbia Act*;

(c) the *Forest and Range Practices Act*; and

(d) the regulations and standards made under those Acts;

"harvest area" means the area or areas allocated for the activities pursuant to the Licence and this Cutting Permit and which for greater detail are outlined on the attached Exhibit "A" map(s);

"remove" means the removal of timber from the harvest area and "removed" and "removing" have the corresponding meanings;

"cut control specifications" means the specifications for timber that may be removed pursuant to the Licence as set out in Schedule "C" to this Cutting Permit;

"total merchantable area" means the total merchantable area as indicated in the appraisal for this cutting permit.

_____

Andrew Ashford, RPF, District Manager
North Island – Central Coast Forest District

SCHEDULE A

OTHER CONDITIONS AND REQUIREMENTS

1.00 ORDERLY CONDITIONS

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

2.00 HAZARD TREES

2.01 The Licensee may cut and remove hazard trees from within fifty (50) metres of the boundaries of the cutblock's total merchantable area.

2.02 The Licensee may fell trees outside of the cutblock's boundaries but within the area described in Paragraph 2.01 if the person conducting tree felling or rigging tail hold/anchor trees determines that the tree represents a safety hazard according to the Workers Compensation Board standards.

2.03 Trees felled under Paragraph 2.01 and Paragraph 2.02 shall be bucked and utilized according to the specifications included in the Licence and/or Cutting Permit.

3.00 TREE CROWN MODIFICATION

3.01 The Licensee may cut, damage or modify the crowns of the trees located outside the boundaries of the total merchantable area of Cutblock LEC18 identified on the attached Exhibit "A" maps and the locations and the areas of those specified trees are indicated coloured in pink and identified as "Windfirm" in the legend on the appraisal map, for that cutblock, attached to the appraisal for this cutting permit. The purpose of the modification of the crowns of the aforementioned trees is to reduce the risk of damage by wind and hence windfallen timber at the cutblock's boundaries and beyond.

4.00 OTHER RIGHTS

4.01 The Licensee's rights under this Permit are subject to any other rights of use and occupation over the Permit Area and the Clearing Area which the Crown has granted to third parties and the Licensee covenants not to obstruct or impede a third party in their authorized use or occupation of these areas.

4.02 Except where a mineral reserve established under section 22 (2) of the *Mineral Tenure Act* allows otherwise, the Licensee covenants and agrees not to obstruct or impede the use of tenures which have been, or which may be, issued to third parties under the *Mineral Tenure Act*.

4.03 In consideration of the foregoing, the Licensee agrees to indemnify and save harmless the Crown from and against all claims for loss or damage, whether caused by the Licensee's acts or omissions, including losses or damages arising out of the Licensee's interference or obstruction of a third party's authorized use, or occupation of the Permit Area or Clearing Area.

SCHEDULE B
RESERVED TIMBER

There is no specified reserved timber under this cutting permit.

SCHEDULE C

1.00 CUT CONTROL SPECIFICATIONS

1.01 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 as set out in part 2.00 of this Schedule; and

(ii) in the case of a butt log, the diameter (outside bark) at the butt end of the log;

(d) "slab" means one of two 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; and

(g) "top log" means any log that is not a butt log.

1.02 The following are the cut control specifications for the Cutting Permit:

(a) all butt logs fitting the requirements of Paragraph 1.03 under this Schedule and 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 set out in part 2.00 of this Schedule; and

(b) all top logs fitting the requirements of Paragraph 1.03 in this Schedule and meeting:

(i) the minimum log length; and

(ii) the minimum top diameter;

shown for that species in the table set out in part 2.00 of this Schedule; and

(c) all slabs fitting the requirements of Paragraph 1.03 in this Schedule and meeting:

(i) the minimum slab length; and

(ii) the minimum slab thickness;

shown for that species in the table set out in part 2.00 of this Schedule; and

(d) the volume of all stumps, left after the timber has been cut that exceed the maximum stump height shown for that species in the table set out in part 2.00 of this Schedule.

1.03 Timber of the following species and grades are specified as meeting or exceeding cut control specifications:

(a) N/A

2.00 TABLE

2.01 For the purposes of identification of timber meeting the cut control specifications, the following specifications will be used:

Species	Max. Stump Height (cm)	Min. Diameter at Stump Height (cm)	Min Log Length (m)	Min. Top Diameter (cm)	Min. Slab Length (m)	Min. Slab Thickness (cm)
All -Mature	30 cm	N/A	3 m	15 cm	3 m	15 m
All - Immature	30 cm	N/A	3 m	15 cm	3 m	10 m

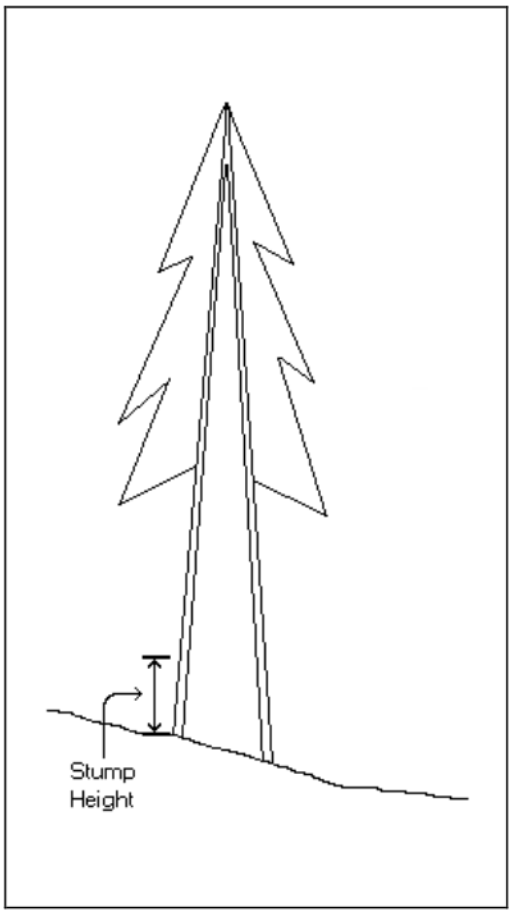
Notes:

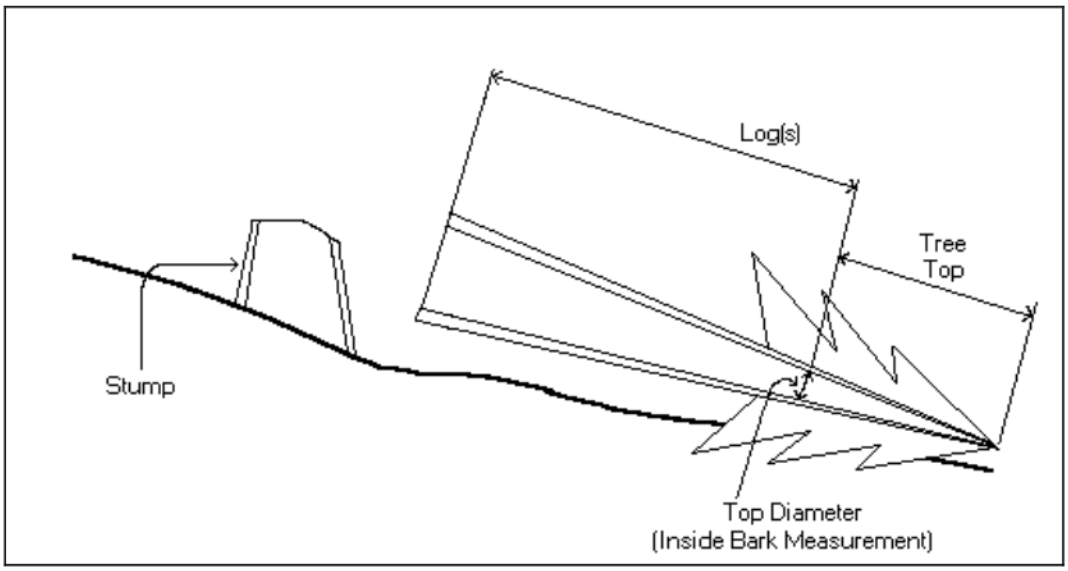
1. In the table above: Min. = Minimum and Max. = Maximum.
2. For clarification of terms see attached diagrams.
3. “mature” means timber which has an average age of 121 years or older.
4. “immature” means timber which has an average age of less than 121 years.

SCHEDULE C

Diagrams for Cutblock LEC18

1. Cut Control Specifications



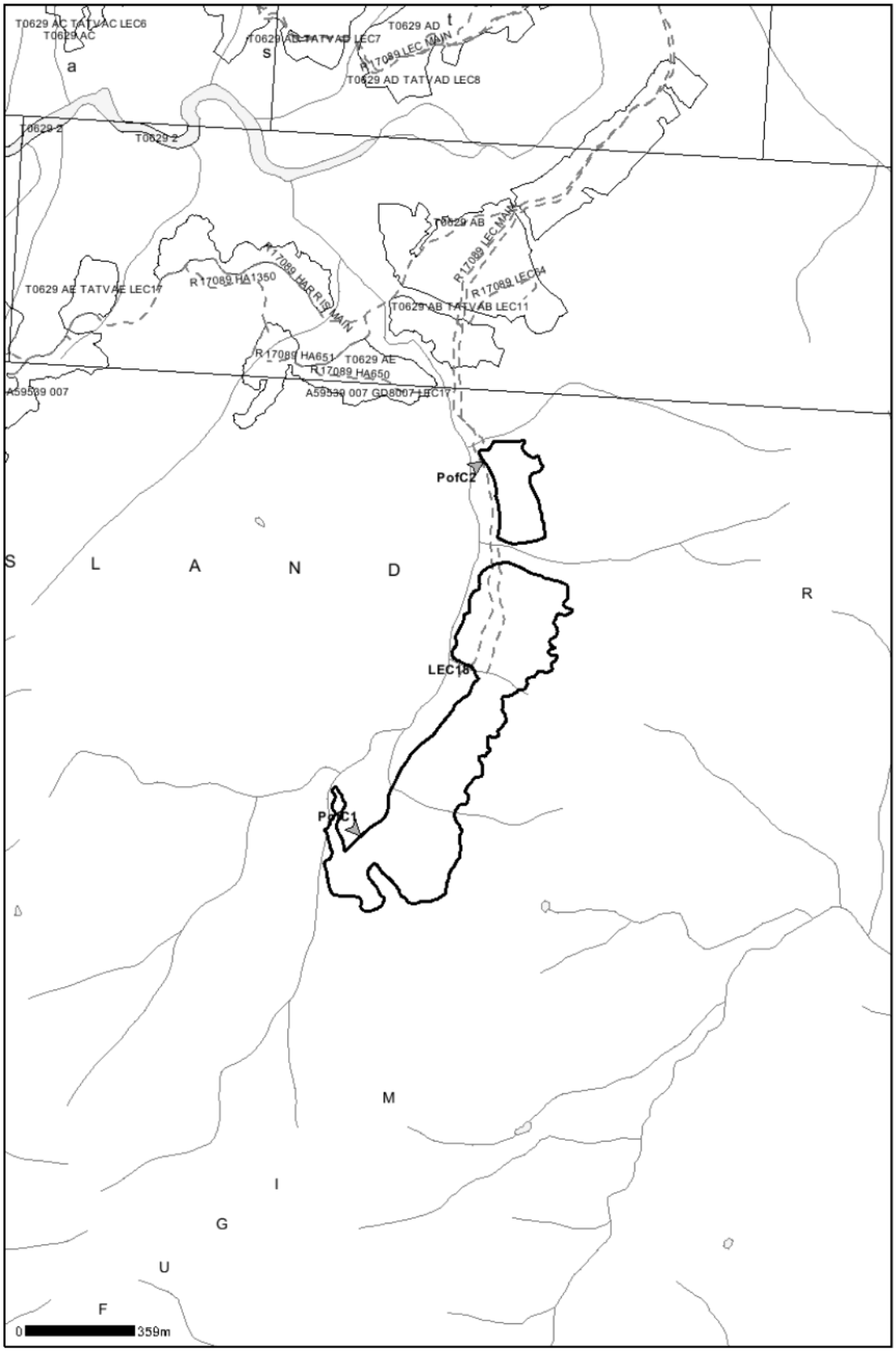


BRITISH COLUMBIA

Ministry of Forests, Lands and Natural Resource Operations

EXHIBIT A

MAP OF : A59539 CP 008 (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RUPERT DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : TIMBER SUPPLY AREA MGT UNIT NO : 33
ESF SUBMISSION ID : 1464127 BCGS MAPSHEET NO : 92L.022	SCALE : 1:20000 at A Size Area (Ha): 34.662	UTM : 9 NAD : NAD 83	DRAWN BY : FTA DATE : Nov 26, 2015



Legend

- Tenure Application
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- Waterbodies
- River/Stream
- Coastline / Island

LEC18 (34.662 Ha)
PofC1 UTM9 594034, 5564575
PofC2 UTM9 594385, 5565815

Inside TSA 33 Save and Except the prior rights of R17089

REVIEWED
By Cyndi Schofield at 8:13 am, Dec 09, 2015

BRITISH COLUMBIA

EXHIBIT A

MAP OF : A59539 CP 008 (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RUPERT DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : TIMBER SUPPLY AREA MGT UNIT NO : 33
ESF SUBMISSION ID : 1464127 BCGS MAPSHEET NO : 92L.022	SCALE : 1:10000 at A Size Area (Ha): 34.662	UTM : 9 NAD : NAD 83	DRAWN BY : FTA DATE : Nov 26, 2015

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(34.662 Ha)
PofC1 UTM9 594034, 5564575
PofC2 UTM9 594385, 5565815

BRITISH COLUMBIA

EXHIBIT A

MAP OF : A59539 CP 008 (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RUPERT DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : TIMBER SUPPLY AREA MGT UNIT NO : 33
ESF SUBMISSION ID : 1464127 BCGS MAPSHEET NO : 92L.022	SCALE : 1:10000 at A Size Area (Ha): 34.662	UTM : 9 NAD : NAD 83	DRAWN BY : FTA DATE : Nov 26, 2015

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- Cities
- Waterbodies
- River/Stream
- Coastline / Island

(34.662 Ha)
PofC1 UTM9 594034, 5564575
PofC2 UTM9 594385, 5565815

FOREST LICENCE A59539
CUTTING PERMIT 009

Ministry of Forests, Lands and Natural Resource Operations

PURSUANT TO Forest Licence A59539 (the "Licence"), this Cutting Permit is issued to:

LEMARE LAKE LOGGING LTD.
POST OFFICE BOX 609
PORT MCNEILL, BRITISH COLUMBIA
V0N 2R0
(the "Licensee")

1.00 PERMIT AREA AND TERM

1.01 Subject to the Licence, the Licensee is authorized to cut and remove the Crown timber from the area, **Cutblock LEC19,** of land as shown on the attached Exhibit "A" maps, the "harvest area".

1.02 Subject to the term of the Licence, the term of this Cutting Permit **begins** on **March 9, 2016** and **expires** on **October 11, 2017.**

1.03 The Licensee must make application for an extension of this Cutting Permit to the District Manager at least 60 days before the expiry of the Cutting Permit and in a form acceptable to the District Manager.

2.00 OTHER 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 TIMBER MARK

3.01 The timber mark for the timber removed under this Cutting Permit is:

GD8009

3.02 The Licensee must erect signs at all exits from the areas of land referred to in Paragraph 1.01, clearly showing the timber mark referred to in Paragraph 3.01.

4.00 SCALE-BASED STUMPAGE

4.01 For the purpose of determining the amount of stumpage payable in respect of timber removed from the harvest area, the volume or quantity of timber removed will be determined using information provided in a scale of the timber.

4.02 The Licensee must ensure that:

(a) all timber removed from the harvest area 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.

4.03 The Licensee must pay to the Government, immediately upon receipt of a notice, statement or invoice issued on behalf of the Government:

(a) stumpage under Part 7 of the *Forest Act* at rates determined, redetermined and varied under section 105 of that Act in respect of timber removed under this Cutting Permit; and

(b) any payment required as a result of a waste assessment under Part 6.00 of this Cutting Permit.

5.00 ROADS

5.01 Subject to the Licence and the forestry legislation, the Licensee may use, construct, maintain or deactivate roads on the areas covered by this Cutting Permit.

6.00 TIMBER HARVEST AND WASTE ASSESSMENTS

6.01 The Licensee must not harvest timber if the timber is specified as reserved timber in Schedule "B", or under an applicable operational plan or the forestry legislation.

6.02 Subject to Paragraph 6.01, all standing or felled timber that meets or exceeds the cut control specifications and that could have been removed under the Cutting Permit, but which is not removed may be dealt with as if it had been removed for the purposes of determining the volume of timber harvested under the Cutting Permit.

6.03 Subject to Paragraph 6.01, the quantity and quality of:

(a) merchantable Crown timber that could have been harvested under this Cutting Permit but at the Licensee's discretion was not harvested; and

(b) timber estimated to be wasted or damaged under this Cutting Permit for the purpose of section 75.1 (2) (b) of the *Forest Act*; will be determined in accordance with the provisions of Provincial Logging Residue and Waste Measurement Procedures Manual, as amended or replaced from time to time.

6.04 The District Manager, in a notice given to the Licensee, may require the Licensee to pay in respect of the volume of timber determined under Paragraph 6.03, a monetary assessment for all waste.

6.05 The amount of money that the Licensee must pay under a waste assessment will be determined in accordance with the provisions of the Provincial Logging Residue and Waste Measurements Procedures Manual as they are at the time the quantity and quality of merchantable Crown timber is determined under Paragraph 6.03.

6.06 For the purpose of conducting the assessment of the volume of timber that was not harvested as described in Paragraph 6.03:

(a) the Licensee must conduct an assessment in accordance with the current Provincial Logging Residue and Waste Measurement Procedures Manual after the Licensee has declared that primary logging has been completed for each cut block; or

(b) the Regional Manager or District Manager may conduct an assessment in accordance with the current Provincial Logging Residue and Waste Measurement Procedures Manual after the expiry of the term of this Cutting Permit or Licence or the Licence and/or Cutting Permit otherwise being terminated, whichever occurs first.

7.00 MISCELLANEOUS

7.01 The Schedules and Exhibit "A" map(s) 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.

7.04 The Licensee must notify the District Manager in writing in a form acceptable to the District Manager, when all harvest related obligations are complete.

8.00 INTERPRETATION & DEFINITIONS

8.01 In this Cutting Permit, unless the context otherwise requires, the following definitions apply:

"District Manager" means the person who enters into this permit or manages this permit on behalf of the Government and who must be either:

(a) a District Manager appointed under the *Ministry of Forests and Range Act*, for a forest district in which all or part of the harvest area is situated; or

(b) any person authorized to exercise a power or fulfill a duty under the Licence;

"forestry legislation" means:

(a) the *Forest Act*;

(b) the *Forest Practices Code of British Columbia Act*;

(c) the *Forest and Range Practices Act*; and

(d) the regulations and standards made under those Acts;

"harvest area" means the area or areas allocated for the activities pursuant to the Licence and this Cutting Permit and which for greater detail are outlined on the attached Exhibit "A" map(s);

"remove" means the removal of timber from the harvest area and "removed" and "removing" have the corresponding meanings;

"cut control specifications" means the specifications for timber that may be removed pursuant to the Licence as set out in Schedule "C" to this Cutting Permit;

"total merchantable area" means the total merchantable area as indicated in the appraisal for this cutting permit.

_____

Andrew Ashford, RPF, District Manager
North Island – Central Coast Forest District

SCHEDULE A

OTHER CONDITIONS AND REQUIREMENTS

1.00 ORDERLY CONDITION

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

2.00 HAZARD TREES

2.01 The Licensee may cut and remove hazard trees from within fifty (50) metres of the boundaries of the cutblock's total merchantable area.

2.02 The Licensee may fell trees outside of the cutblock's boundaries but within the area described in Paragraph 2.01 if the person conducting tree felling or rigging tail hold/anchor trees determines that the tree represents a safety hazard according to the Workers Compensation Board standards.

2.03 Trees felled under Paragraph 2.01 and Paragraph 2.02 shall be bucked and utilized according to the specifications included in the Licence and/or Cutting Permit.

3.00 TREE CROWN MODIFICATION

3.01 The Licensee may cut, damage or modify the crowns of the trees located outside the boundaries of the total merchantable area of the cutblock identified on the attached Exhibit "A" maps and the locations and the areas of those specified trees are indicated coloured in pink and identified as "Windfirm" in the legend, as well as the pruning prescriptions for those trees, are shown on the appraisal map attached to the appraisal for this cutting permit. The purpose of the modification of the crowns of the aforementioned trees is to reduce the risk of damage by wind and hence windfallen timber at the cutblock's boundaries and beyond.

4.00 OTHER RIGHTS

4.01 The Licensee's rights under this Permit are subject to any other rights of use and occupation over the Permit Area and the Clearing Area which the Crown has granted to third parties and the Licensee covenants not to obstruct or impede a third party in their authorized use or occupation of these areas.

4.02 Except where a mineral reserve established under section 22 (2) of the *Mineral Tenure Act* allows otherwise, the Licensee covenants and agrees not to obstruct or impede the use of tenures which have been, or which may be, issued to third parties under the *Mineral Tenure Act*.

4.03 In consideration of the foregoing, the Licensee agrees to indemnify and save harmless the Crown from and against all claims for loss or damage, whether caused by the Licensee's acts or omissions, including losses or damages arising out of the Licensee's interference or obstruction of a third party's authorized use, or occupation of the Permit Area or Clearing Area.

SCHEDULE B
RESERVED TIMBER

There is no specified reserved timber under this cutting permit.

SCHEDULE C

1.00 CUT CONTROL SPECIFICATIONS

1.01 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 as set out in part 2.00 of this Schedule; and

(ii) in the case of a butt log, the diameter (outside bark) at the butt end of the log;

(d) "slab" means one of two 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; and

(g) "top log" means any log that is not a butt log.

1.02 The following are the cut control specifications for the Cutting Permit:

(a) all butt logs fitting the requirements of Paragraph 1.03 under this Schedule and 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 set out in part 2.00 of this Schedule; and

(b) all top logs fitting the requirements of Paragraph 1.03 in this Schedule and meeting:

(i) the minimum log length; and

(ii) the minimum top diameter;

shown for that species in the table set out in part 2.00 of this Schedule; and

(c) all slabs fitting the requirements of Paragraph 1.03 in this Schedule and meeting:

(i) the minimum slab length; and

(ii) the minimum slab thickness;

shown for that species in the table set out in part 2.00 of this Schedule; and

(d) the volume of all stumps, left after the timber has been cut that exceed the maximum stump height shown for that species in the table set out in part 2.00 of this Schedule.

1.03 Timber of the following species and grades are specified as meeting or exceeding cut control specifications:

(a) N/A

2.00 TABLE

2.01 For the purposes of identification of timber meeting the cut control specifications, the following specifications will be used:

Species	Max. Stump Height (cm)	Min. Diameter at Stump Height (cm)	Min Log Length (m)	Min. Top Diameter (cm)	Min. Slab Length (m)	Min. Slab Thickness (cm)
All -Mature	30 cm	N/A	3 m	15 cm	3 m	15 m
All - Immature	30 cm	N/A	3 m	15 cm	3 m	10 m

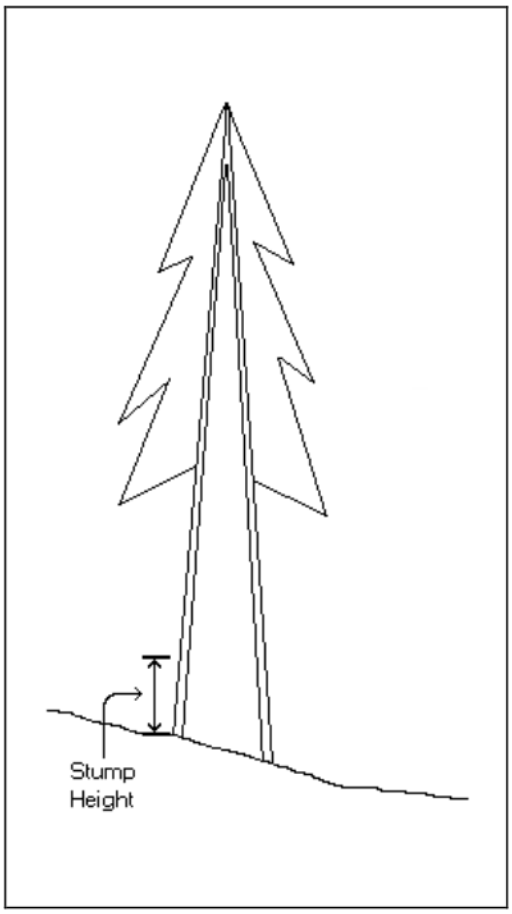
Notes:

1. In the table above: Min. = Minimum and Max. = Maximum.
2. For clarification of terms see attached diagrams.
3. “mature” means timber which has an average age of 121 years or older.
4. “immature” means timber which has an average age of less than 121 years.

SCHEDULE C

Diagrams for Cutblock LEC19

1. Cut Control Specifications



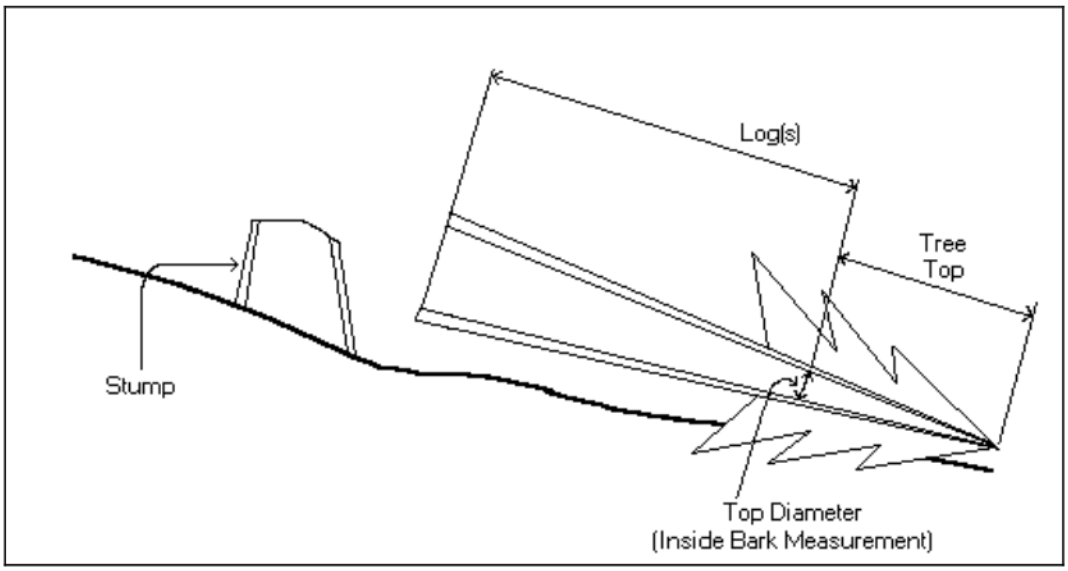
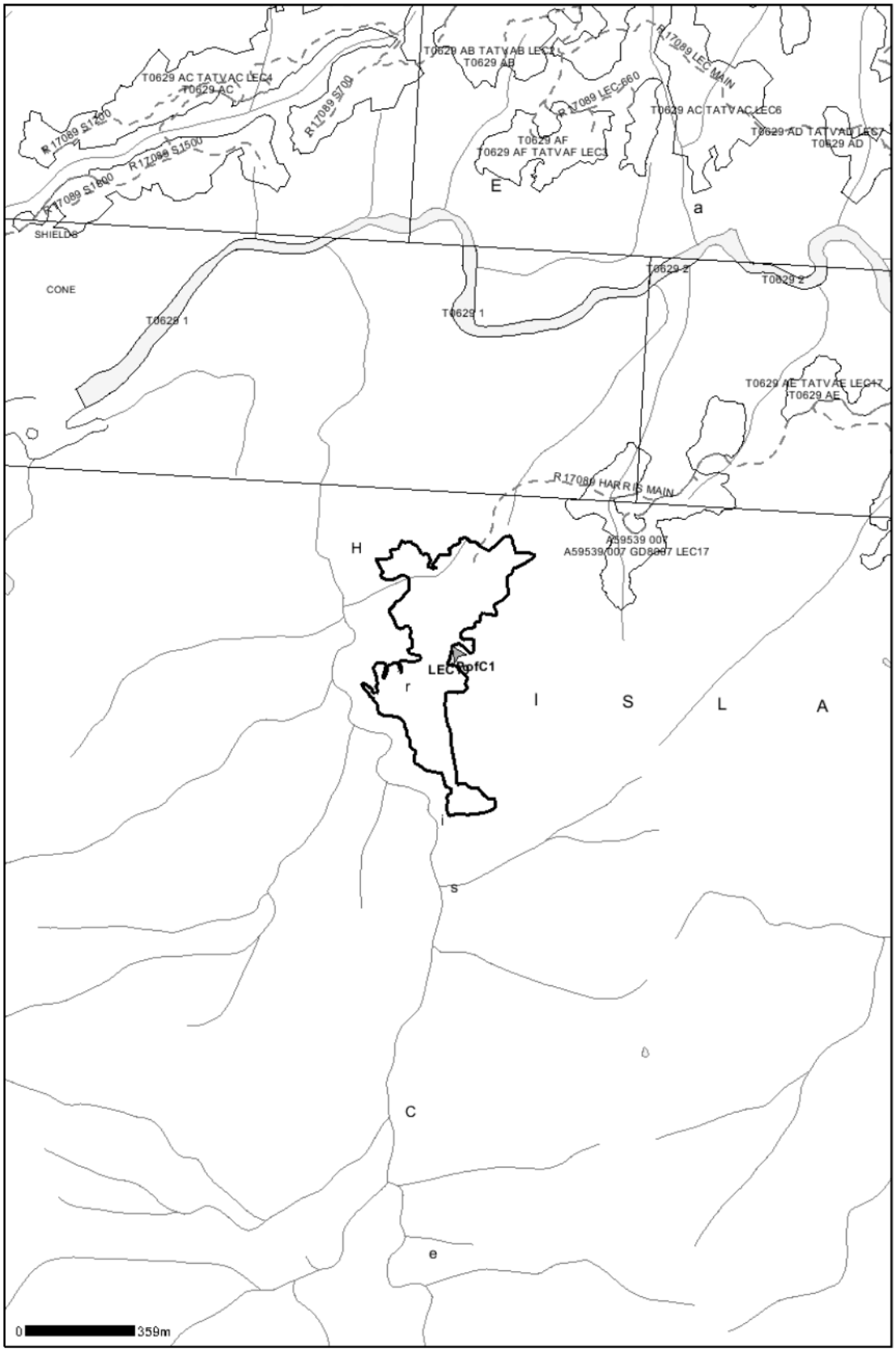


EXHIBIT A

MAP OF : A59539 CP 009 (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RUPERT DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : TIMBER SUPPLY AREA MGT UNIT NO : 33
ESF SUBMISSION ID : 1470851 BCGS MAPSHEET NO : 92L.022	SCALE : 1:20000 at A Size Area (Ha): 19.718	UTM : 9 NAD : NAD 83	DRAWN BY : FTA DATE : Dec 16, 2015



Legend

- Tenure Application
- Tenure Road Application
- Retired Tenure Road
- P of C
- P of T
- Tenure Feature
- Range
- TFL
- Provincial Forest
- Forest Service Road
- Highway
- Municipal Road
- Non Status Road
- Recreation Trails
- Road Permit
- SUP Road
- Right of Way
- Schedule B CP Road
- Mineral Tenure Points
- Cities
- Waterbodies
- River/Stream
- Coastline / Island

LEC19 (19.718 Ha)
PofC1 UTM9 592239, 5565582

Inside TSA 33

REVIEWED
By Cyndi Schofield at 12:57 pm, Jan 14, 2016

BRITISH COLUMBIA

EXHIBIT A

MAP OF : A59539 CP 009 (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RUPERT DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : TIMBER SUPPLY AREA MGT UNIT NO : 33
ESF SUBMISSION ID : 1470851 BCGS MAPSHEET NO : 92L.022	SCALE : 1:5000 at A Size Area (Ha): 19.718	UTM : 9 NAD : NAD 83	DRAWN BY : FTA DATE : Dec 16, 2015

Legend

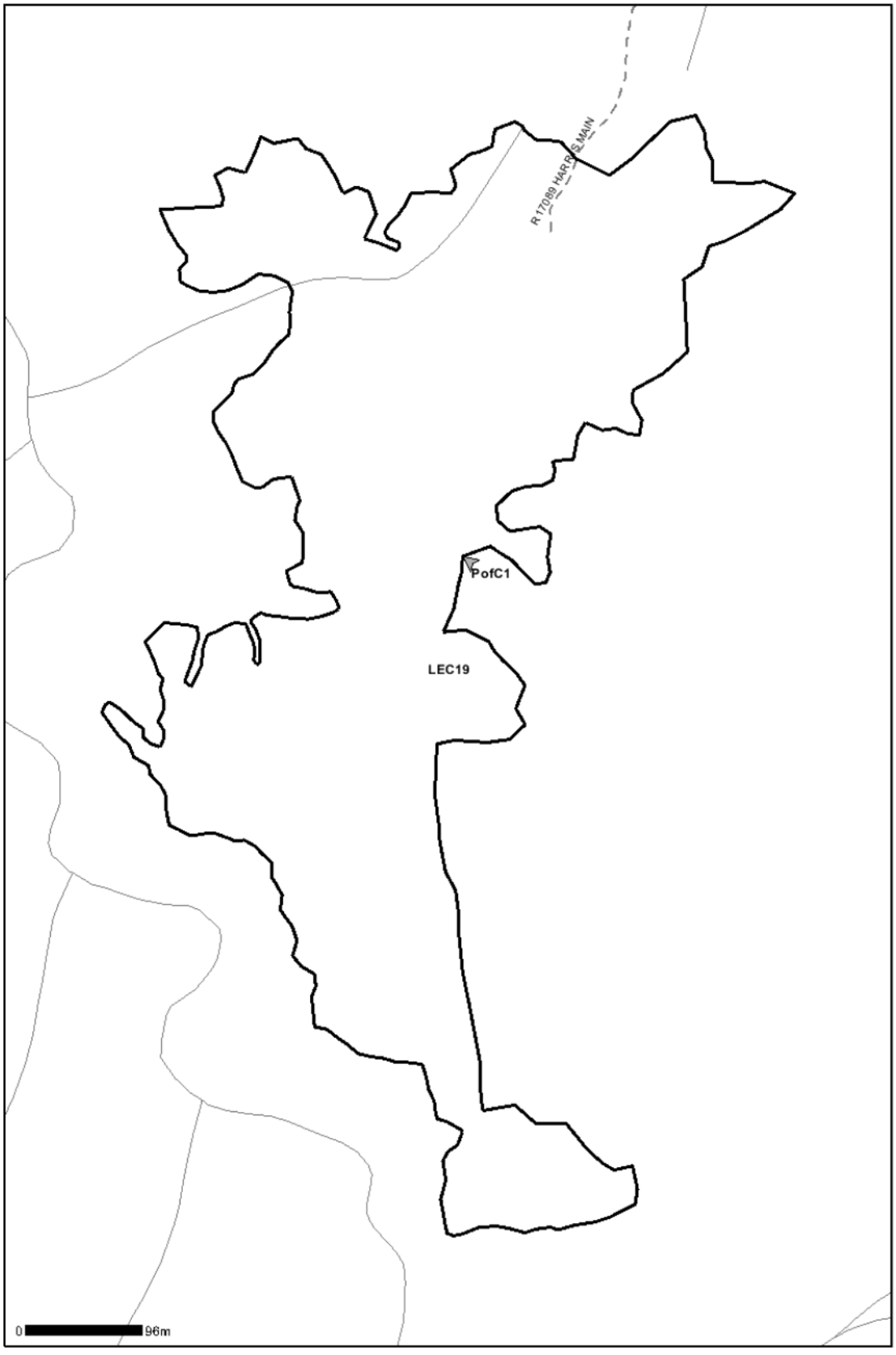
- Tenure Application
- Tenure Road Application
- Retired Tenure Road
- P of C
- P of T
- Tenure Feature
- Range
- TFL
- Provincial Forest
- Forest Service Road
- Highway
- Municipal Road
- Non Status Road
- Recreation Trails
- Road Permit
- SUP Road
- Right of Way
- Schedule B CP Road
- Mineral Tenure Points
- Cities
- Waterbodies
- River/Stream
- Coastline / Island

(19.718 Ha)
PofC1 UTM9 592239, 5565582

BRITISH COLUMBIA

EXHIBIT A

MAP OF : A59539 CP 009 CB LEC19 (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RUPERT DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : TIMBER SUPPLY AREA MGT UNIT NO : 33
ESF SUBMISSION ID : 1470851 BCGS MAPSHEET NO : 92L.022	SCALE : 1:5000 at A Size Area (Ha): 19.718	UTM : 9 NAD : NAD 83	DRAWN BY : FTA DATE : Dec 16, 2015



Legend

- Tenure Application
- Tenure Road Application
- Retired Tenure Road
- P of C
- P of T
- Tenure Feature
- Range
- TFL
- Provincial Forest
- Forest Service Road
- Highway
- Municipal Road
- Non Status Road
- Recreation Trails
- Road Permit
- SUP Road
- Right of Way
- Schedule B CP Road
- Mineral Tenure Points
- Cities
- Waterbodies
- River/Stream
- Coastline / Island

LEC19 (19.718 Ha)
PofC1 UTM9 592239, 5565582

BRITISH COLUMBIA
The Best Place on Earth

RECEIVED
MAR 28 2011
MINISTRY OF NATURAL RESOURCE OPERATIONS
PORT MCNEILL BC

File: 19510-25/A59539

MAR 16 2011

Vadim Stavrakov, Planning Manager
Lemare Lake Logging Ltd.
P.O Box 609
Port McNeill, British Columbia
V9T 6E9

Amy AB
FYA Rob →file

Dear Vadim Stavrakov:

With regards to your November 30, 2010 request for a two year extension to the term of Forest Licence A59539, attached is a signed licence extension for your signature. Please note the extension has an effective date of April 29, 2011. Please ensure a copy of the extension with a licensee signature is returned to this office by the effective date. If a copy is not received by the effective date, the extension will be deemed to be cancelled.

In granting the extension request, and for your consideration in harvesting the remaining volume I must refer you to Section 75.41 (3) of the *Forest Act* that prohibits the licence holder from harvesting any volume in excess of the maximum volume available under the licence. Despite additional allowable annual cut provided by the extension for the final cut control period, you are limited to a maximum of 300,000 m^3 under the licence. Any volume harvested under the licence in excess of this 300,000 m^3 will be subject to a penalty under Section 75.91 of the *Forest Act*.

If you have any questions regarding this extension or the cut control requirements for the licence, please contact Randy Husband, Tenures Officer, Coast Area at (250) 751-7183

Yours truly,

Sharon Hadway
Regional Manager
West Coast Region

Enclosure(s): Two copies Forest Licence A59539 licence amendment

pc: Andrew Ashford, District Manager, North Island Central Coast Natural Resource District
Randy Husband, Tenures Officer, Coast Area

Ministry of Forests, Lands and Natural Resource Operations
West Coast Region

Location:
2100 Labieux Road
Nanaimo, BC
V9T 6E9
CANADA

Mailing Address:
2100 Labieux Road
Nanaimo, BC V9T 6E9
Tel: (250) 751-7001
Fax: (250) 751-7100

BRITISH COLUMBIA

Ministry of
Forests and Range

Amendment No. _2___

Amendment to Forest Licence A59539.

Memorandum of amendment to **Forest Licence A59539,** made this 29th day of April, 2011, between the Regional Manager of the West Coast Region and the Licensee of the said Licence.

Whereas it is mutually agreed to amend the terms and conditions of the said Licence and the parties hereto have agreed to amend the same as set forth in this memorandum:

NOW, THEREFORE, in consideration of the premises and other valuable considerations now exchanged between the parties hereto, said parties agree as follows:

Paragraph 1.02 is amended by deleting the term 11 years and replaced with the term 13 years.

Paragraph 1.05 is added:
The maximum harvestable volume is 300,000 m³.

This forms an integral part of the original Licence and should be attached thereto.

Subject to the foregoing, the parties hereto confirm the said Licence.

IN WITNESS WHEREOF the said parties have hereunto set their hands and seals and/or the Licensee has caused its corporate seal to be affixed in the presence of the duly authorized officers in that behalf on the date and year first above written.

Signed, sealed and delivered by the
Licensor in the presence of

(Witness)

(Regional Manager)

Seal
(Licensor)

Signed, sealed and delivered by the
Licensee in the presence of

(Witness)

Signing Officer(s)

Seal
(Licensee)

NOTE: If the Licensee is a co-partnership, the amendment must be signed and sealed by each member of the partnership. All written signatures must be made in ink.

If the Licensee is a corporation, the corporate seal must be affixed by the officials who are authorized to execute deeds on behalf of the corporation and be accompanied by the signature of these officials.

Page 042 to/à Page 054

Withheld pursuant to/removed as

DUPLICATE

BRITISH COLUMBIA

RECEIVED
JUL 26 2013

File: 19510-25/A59539

JUL 17 2013

Vadim Stavrakov, Planning Manager
Lemare Lake Logging Ltd.
P.O Box 609
Port McNeill, British Columbia
V0N 2R0

Dear Vadim Stavrakov:

With regards to your April 26, 2013 request for a 2 year extension to the term of Forest Licence (FL) A59539, attached are two copies of a licence extension for your signature. If the amendment is acceptable to you, please have both copies signed by the appropriate licensee authority.

Once signed, return both copies of the amendment to this office for my execution. One copy of the executed amendment will be returned to you.

Please forward the signed documents to Randy Husband, Tenures Officer, Coast Area. If you have any questions regarding this extension please contact Randy Husband at (250) 751-7057.

Sincerely,

Myles Mana
Acting Regional Executive Director
West Coast Region

Enclosure(s): Two copies FL A59539 licence amendment # 3.

pc: Andrew Ashford, District Manager, North Island Central Coast Natural Resource District
Randy Husband, Tenures Officer, Coast Area

Ministry of Forests, Lands and Natural Resource Operations

West Coast Region

Location:
2100 Labieux Road
Nanaimo, BC
V9T 6E9
CANADA

Mailing Address:
#103 - 2100 Labieux Road
Nanaimo, BC V9T 6E9

Tel: (250) 751-7001
Fax: (250) 751-7190

BRITISH COLUMBIA

Ministry of
Forests, Lands and
Natural Resource Operations

Coast Area

Amendment to Forest Licence A59539. Amendment No. 3.

Memorandum of amendment to Forest Licence A59539, executed on the later date written below, between the Regional Executive Director of the West Coast Region and the Licensee of the said Licence.

Whereas it is mutually agreed to amend the terms and conditions of the said Licence and the parties hereto have agreed to amend the same as set forth in this memorandum.

NOW, THEREFORE, in consideration of the premises and other valuable considerations now exchanged between the parties hereto, said parties agree as follows:

1. Section 1.01 is amended by replacing "13 years" with "15 years".

This forms an integral part of the original Licence and should be attached thereto.

Subject to the foregoing, the parties hereto confirm the said Licence.

IN WITNESS WHEREOF the said parties have hereunto set their hands and seals and/or the Licensee has caused its corporate seal to be affixed in the presence of the duly authorized officers in that behalf on the date and year below.

SIGNED by the Licensor
in the presence of

_____
(Witness Signature)

_____
(Witness Name Printed)

_____
Sharon Hadway, Regional Executive Director
West Coast Region

Date of Signature: _____

THE COMMON SEAL of the Licensee
was affixed in the presence of, OR
Signed by the Licensee in the presence of

_____
(Witness Signature)

_____
(Witness Name Printed)

_____
(Licensee Signature)

_____
(Licensee Name Printed)

Date of Signature: _____

BRITISH
COLUMBIA

File: 19510-25/A59539
CLIFF 215341

MAY 25 2015

Josh Hiebert, RFT, ATC
Planning Manager
LeMare Lake Logging Ltd.
PO Box 609
Port McNeill, British Columbia
V0N 2R0

Dear Josh Hiebert:

Thank you for your letter of March 31, 2015 requesting a 2-year term extension of Forest Licence A59539. Attached for your records is the fully executed licence amendment to Forest Licence A59539.

The extension provides a total term of 17 years for the licence. The new expiry date is October 11, 2017. For clarity, there is no change to the maximum harvest volume of 300,000 cubic metres available under the licence.

If you have any questions or would like further information about this licence, please contact Kylie Harrison, Tenures Officer, Coast Area at (250) 751-7183 or kylie.harrison@gov.bc.ca.

Yours truly,

Sharon Hadway

Sharon Hadway
Regional Executive Director
West Coast Natural Resource Region

Attachment: Forest Licence A59539 Amendment #4

pc: Andrew Ashford, District Manager, North Island Central Coast Island Natural Resource District
Kylie Harrison, Tenures Officer, Coast Area

Ministry of Forests, Lands and Natural Resource Operations

West Coast Natural Resource Region

Location:
2100 Labieux Road
Nanaimo, BC
V9T 6E9
CANADA

Mailing Address:
#103 - 2100 Labieux Road
Nanaimo, BC V9T 6E9

Tel: (250) 751-7001
Fax: (250) 751-7190

BRITISH COLUMBIA	Ministry of Forests, Lands and Natural Resource Operations	Coast Area

Amendment to Forest Licence A59539. **Amendment No. 4.**

Memorandum of amendment to Forest Licence A59539, executed on the later date written below, between the Regional Executive Director of the West Coast Forest Region and the Licensee of the said Licence.

Whereas it is mutually agreed to amend the terms and conditions of the said Licence and the parties hereto have agreed to amend the same as set forth in this memorandum.

NOW, THEREFORE, in consideration of the premises and other valuable considerations now exchanged between the parties hereto, said parties agree as follows:

1. Paragraph 1.02 is revised by deleting "15 years" and replacing it with "17 years."

For clarity, there is no change to the maximum harvestable volume of 300,000 cubic metres.

This forms an integral part of the original Licence and should be attached thereto.

Subject to the foregoing, the parties hereto confirm the said Licence.

IN WITNESS WHEREOF the said parties have hereunto set their hands and seals and/or the Licensee has caused its corporate seal to be affixed in the presence of the duly authorized officers in that behalf on the date and year below.

SIGNED by the Licensor
in the presence of

(Witness Signature)

(Witness Name Printed)

Sharon Hadway, Regional Executive Director
West Coast Forest Region

Date of Signature: May 25, 2015

THE COMMON SEAL of the Licensee
was affixed in the presence of, OR
Signed by the Licensee in the presence of

(Witness Signature)

THERESA BEDDOWS
(Witness Name Printed)

(Licensee Signature)

JOSH HEBERT
(Licensee Name Printed)

Date of Signature: MAY 14, 2015

FS 3 HTH 92/6

MINISTRY OF FORESTS, LANDS AND NATURAL RESOURCE OPERATIONS
DECISION NOTE

Date: May 25, 2015
File: 19510-25/A59539
CLIFF: 215341

PREPARED FOR: Sharon Hadway, Regional Executive Director, West Coast Natural Resource Region

ISSUE: Lemare Lake Logging Ltd. Request to Extend Non-Replaceable Forest Licence A59539

BACKGROUND:
On March 31, 2015, Lemare Lake Logging Ltd. (Lemare) requested a 2-year extension for their Non-replaceable Forest Licence (NRFL) A59539. The current expiry of the licence is October 11, 2015, and if the extension is approved, the new expiry will be October 11, 2017. Lemare wants to harvest the remaining volume under the licence. No additional volume would be provided with the requested amendment. The purpose of the briefing note is to make a decision on the extension request of NRFL A59539.

DISCUSSION:
The licence was issued October 12, 2000 for 10 years and extended 3 times previously: the first was in 2003 under the *Forest Act* Section 58 which extended the licence by 1 year, and the second and third were in 2011 and 2013 which extended the licence by a total of 4 more years (to 15 years) at the request of the licensee. The licensee requested the previous 2 extensions following a 2010 storm that caused flooding and major slide events which delayed access for development of the licence. The current request is for an additional extension due to the delayed planning and development caused by the 2010 storm. Lemare states that they were only able to gain access for planning in November 2014. They plan to start harvesting the remaining volume under the licence (approximately 38,000 cubic metres) in the summer to fall of 2015 but require the additional 2 years to ensure they meet their harvest obligations for the licence.

Under the *Forest Act* Section 14(1)(a), a forest licence must not be for a term exceeding 20 years, subject to Sections 15, 16, and 58. Section 1.03 of the licence document allows the licence to be extended to up to 20 years provided there are good forest management reasons to harvest the maximum volume available under the licence. The requested extension would not exceed the maximum term allowable in the *Forest Act* or licence document and staff believe the extension would allow for good forest management since it provides for the harvest of the remaining volume under the licence.

Lemare has pre-signed and witnessed the FS3 amendment forms (attached) to expedite the decision process. They were informed that pre-signing the FS3 amendments does not imply approval.

First Nations Consultation
The licensee has provided a letter of support from the Quatsino First Nation (Quatsino) stating "no objection" to the requested 2 year extension, provided Lemare continues their commitment to working with the First Nation. Collaboration and joint decision making with Quatsino is stated in the licence document "Whereas" statements as one of the objectives proposed by Lemare in the bidding process for the award of this licence.

The North Island Central Coast Natural Resource District relied solely on the outcome of proponent-led engagement that resulted in a letter of support being provided by Quatsino. No accommodation is recommended and the consultation is considered adequate. District staff believe that the relationship between Lemare and Quatsino is currently positive and Quatsino have ample opportunities to engage with Lemare during their operational information sharing and subsequent consultation.

OPTIONS:

Option 1: Approve the amendment to extend the term of A59539 by 2 years, to October 11, 2017.

Implications:

- Lemare's request will be met;
- Consistent with the *Forest Act* and licence document;
- Allows the opportunity to harvest the full volume under the licence;
- Maximum potential for stumpage revenue to the Crown from this licence; and
- Supported by Quatsino.

Option 2: Do not approve the amendment.

Implications:

- Lemare's request will not be met;
- No opportunity to harvest the full volume under the licence; and
- Lost potential for stumpage revenue to the Crown.

RECOMMENDATION:

Option 1: Approve the amendment to extend the term of A59539 by 2 years, to October 11, 2017.

If in agreement with the recommended option, please sign the attached FS3 amendment forms (2 copies) and response letter.

Sharon Hadway — May 25, 2015

DECISION & SIGNATURE **DATE SIGNED**

Sharon Hadway
Regional Executive Director
West Coast Natural Resource Region

Attachments (2): FS 3 Amendment No. 4

Contact:	**Alternate Contact:**	**Prepared by:**
Denis Collins	*Steven Rogers*	*Kylie Harrison*
Director of Pricing, Tenures, and Mines	*Forest Tenures Section Head*	*Tenures Officer*
Coast Area	*Coast Area Forest Tenures*	*Coast Area Forest Tenures*
Phone: (250) 751-7121	*Phone: (250) 751-7041*	*Phone: (250) 751-7183*

Reviewed by	Initials	Date
Director	DC	May 25/14
Section Head	SR	
Author	KH	

LEMARE

Quality · Value · Stewardship

March 31, 2015

Sharon Hadway
Regional Executive Director
Ministry of Forest Lands and Natural Resource Operations
2100 Labieux Road
Nanaimo, B.C.
V9T 6E9

Dear Madam,

RE: REQUEST FOR LICENCE EXTENSION FOR FOREST LICENCE A59539

Please accept this letter as an application requesting a two-year extension to Forest Licence (FL) A59539 which is set to expire on October 11, 2015.

As per section 1.03 of the licence document, the total volume of the licence currently harvested is less than the total allowable harvest volume. The reasons for requesting the extension are for good forest management reasons and the licence extension, if approved, would not exceed a 20 year term.

FL A59539 is located approximately 50 kilometers south west of Port McNeill adjacent to Brooks Peninsula Provincial Park on the West Coast of Vancouver Island. FL A59539 is a Non-Replaceable Forest Licence (NRFL) that had an original term of 10 years (2000-2010) and has a total allowable licence volume of 300,000m3. In addition to the 10 year term, FL A59539 was extended for an additional year due to a reduction in AAC within the Kingcome Timber Supply Area and again for an additional two years due to a storm that damaged the FSR leading into this licence. We are requesting an additional extension for the identical reasons as the previous extension.

The reason that we have not been able to meet our timing constraints is due to the major storm events that impacted northern Vancouver Island and the mainland coast causing significant damage and flooding throughout the region in 2010. As a result of these high wind and heavy rainfall events of September 24th and 25th, 2010, our access had been severely impeded and we were able to gain access to this area in November 2014 to start planning.

P.O. BOX 609

PORT MCNEILL, BC V0N 2R0

TEL (250) 956-3123 FAX (250) 956-4888

SAFE CERTIFIED

We are currently engineering and have plans to start logging our remaining ~38000m3 in summer to fall of 2015 weather depending, but will require an additional two year extension to make sure that we meet our harvest obligations for this licence

Thank you for your consideration. Should you require further information, please contact the undersigned by telephone: (250) 956-3123 or by email: jhiebert@lemare.ca.

Sincerely,

Josh Hiebert, RFT, ATC
Planning Manager
LEMARE

Attachments: Letter of Support from the Quatsino First Nation

cc Andrew Ashford, District Manager, MFR-NICC
Chris Dutcyvich, General Manager, Lemare
Eric Dutcyvich, General Manager, Lemare

Quatsino Band Council
305 Quattishe Rd.
PO Box 100
Coal Harbour, B.C.
V0N 1K0
Phone: (250) 949-6296
Fax: (250) 902-0638
rwallas@quatsinofn.ca

Lemare Lake Logging Ltd.
PO Box 609
Port McNeill, B.C.
V0N2R0

March 31, 2015

Attention: Josh Hiebert, RFT
Planning Manager

Re: Letter of Support for Extension of Forest Licence A59539 - East Creek/ Kinney Creek

Dear Sir,

This letter is in reference to your telephone call on March 31, 2015, regarding LeMare Lake Logging Ltd.'s intent to apply for a two-year extension to the term of FL A59539 located within the Quatsino First Nation's traditional territory.

On behalf of the Quatsino First Nation, I can advise you that there is no objection to the proposed extension and we support your application to extend the licence term for an additional two years, providing LeMare Lake Logging are still committed to discussing financial and or partnership opportunities whenever they are working within Quatsino First Nations' Traditional Territories.

If you require any additional information or clarification, please feel free to contact me directly at any time.

Sincerely,

Ralph Wallas
Forestry Coordinator
Quatsino First Nation

BRITISH COLUMBIA

File: 19510-25/A59539

August 22, 2013

Josh Hiebert, Planning Manager
Lemare Lake Logging Ltd.
P.O. Box 609
Port McNeil, British Columbia
V0N 2R0

Dear Josh Hiebert:

Attached is your copy of the executed amendment # 3 to Forest Licence A59539. Best of luck in your operations.

Sincerely,

Randy Husband, R.P.F.
Tenures Officer
Coast Area

Attachment(s): Amendment #3 A59539

Ministry of Forests, Lands and Natural Resource Operations

West Coast Region

Location:
2100 Labieux Road
Nanaimo, BC
V9T 6E9
CANADA

Mailing Address:
#103 - 2100 Labieux Road
Nanaimo, BC V9T 6E9

Tel: (250) 751-7001
Fax: (250) 751-7190

BRITISH COLUMBIA

Ministry of
Forests, Lands and
Natural Resource Operations

Coast Area

Amendment to Forest Licence A59539. Amendment No. 3.

Memorandum of amendment to Forest Licence A59539, executed on the later date written below, between the Regional Executive Director of the West Coast Region and the Licensee of the said Licence.

Whereas it is mutually agreed to amend the terms and conditions of the said Licence and the parties hereto have agreed to amend the same as set forth in this memorandum.

NOW, THEREFORE, in consideration of the premises and other valuable considerations now exchanged between the parties hereto, said parties agree as follows:

1. Section 1.01 is amended by replacing "13 years" with "15 years".

This forms an integral part of the original Licence and should be attached thereto.

Subject to the foregoing, the parties hereto confirm the said Licence.

IN WITNESS WHEREOF the said parties have hereunto set their hands and seals and/or the Licensee has caused its corporate seal to be affixed in the presence of the duly authorized officers in that behalf on the date and year below.

SIGNED by the Licensor
in the presence of

S. Kumar
(Witness Signature)

Sangita Kumar
(Witness Name Printed)

Sharon Hadway
Sharon Hadway, Regional Executive Director
West Coast Region

Date of Signature: Aug 23/13

THE COMMON SEAL of the Licensee
was affixed in the presence of, OR
Signed by the Licensee in the presence of

J Beddows
(Witness Signature)

THERESA BEDDOWS.
(Witness Name Printed)

REGISTERED FOREST TECHNOLOGIST PROVINCE OF BRITISH COLUMBIA JOSHUA LI HIEBERT NO. 0556

(Licensee Signature)

JOSH HIEBERT
(Licensee Name Printed)

Date of Signature: July 31/2013

BRITISH COLUMBIA

Ministry of Forests, Lands and Natural Resource Operations [Office Name]

MEMORANDUM

File: 19510-25/A59539
CLIFF # 199207

August 20, 2013

To: Sharon Hadway, Regional Executive Director, West Coast Region

From: Randy Husband, Coast Area Tenures

Re: Forest Licence A59539 Amendment # 3 Execution

Included in this package are two copies of licensee signed Forest Licence A59539 Amendment #3. The amendment was offered by the Acting Regional Executive Director on July 17, 2013.

There are no outstanding issues or requirements regarding the amendment and Coast Area Tenures request the Regional Executive Director execute the amendment.

Please sign both copies of the licence amendment and return to me distribution and filing.

Randy Husband
Tenure Officer
Coast Area Tenures

Attachment(s): FL A59539 Amendment #3 (2 copies)

Z:\!Workgrp\Tenures\Forest Licence\Forest Licence Amendments\FL A59539 extension\FL A59539 execution memo.docx

Page 067 to/à Page 079

Withheld pursuant to/removed as

DUPLICATE

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Page 081 to/à Page 093

Withheld pursuant to/removed as

DUPLICATE

BRITISH
COLUMBIA

File: 19510-25/A59539
CLIFF 215341

MAY 25 2015

Josh Hiebert, RFT, ATC
Planning Manager
LeMare Lake Logging Ltd.
PO Box 609
Port McNeill, British Columbia
V0N 2R0

Dear Josh Hiebert:

Thank you for your letter of March 31, 2015 requesting a 2-year term extension of Forest Licence A59539. Attached for your records is the fully executed licence amendment to Forest Licence A59539.

The extension provides a total term of 17 years for the licence. The new expiry date is October 11, 2017. For clarity, there is no change to the maximum harvest volume of 300,000 cubic metres available under the licence.

If you have any questions or would like further information about this licence, please contact Kylie Harrison, Tenures Officer, Coast Area at (250) 751-7183 or kylie.harrison@gov.bc.ca.

Yours truly,

Sharon Hadway

Sharon Hadway
Regional Executive Director
West Coast Natural Resource Region

Attachment: Forest Licence A59539 Amendment #4

pc: Andrew Ashford, District Manager, North Island Central Coast Island Natural Resource District
Kylie Harrison, Tenures Officer, Coast Area

Ministry of Forests, Lands and Natural Resource Operations

West Coast Natural Resource Region

Location:
2100 Labieux Road
Nanaimo, BC
V9T 6E9
CANADA

Mailing Address:
#103 - 2100 Labieux Road
Nanaimo, BC V9T 6E9

Tel: (250) 751-7001
Fax: (250) 751-7190

BRITISH COLUMBIA	Ministry of Forests, Lands and Natural Resource Operations	Coast Area

Amendment to Forest Licence A59539. **Amendment No. 4.**

Memorandum of amendment to Forest Licence A59539, executed on the later date written below, between the Regional Executive Director of the West Coast Forest Region and the Licensee of the said Licence.

Whereas it is mutually agreed to amend the terms and conditions of the said Licence and the parties hereto have agreed to amend the same as set forth in this memorandum.

NOW, THEREFORE, in consideration of the premises and other valuable considerations now exchanged between the parties hereto, said parties agree as follows:

1. Paragraph 1.02 is revised by deleting "15 years" and replacing it with "17 years."

For clarity, there is no change to the maximum harvestable volume of 300,000 cubic metres.

This forms an integral part of the original Licence and should be attached thereto.

Subject to the foregoing, the parties hereto confirm the said Licence.

IN WITNESS WHEREOF the said parties have hereunto set their hands and seals and/or the Licensee has caused its corporate seal to be affixed in the presence of the duly authorized officers in that behalf on the date and year below.

SIGNED by the Licensor
in the presence of

(Witness Signature)

(Witness Name Printed)

Sharon Hadway, Regional Executive Director
West Coast Forest Region

Date of Signature: May 25, 2015

THE COMMON SEAL of the Licensee
was affixed in the presence of, OR
Signed by the Licensee in the presence of

(Witness Signature)

THERESA BEDDOWS
(Witness Name Printed)

(Licensee Signature)

JOSH HEBERT
(Licensee Name Printed)

Date of Signature: MAY 14, 2015

FS 3 HTH 92/6

BRITISH COLUMBIA

Ministry of
Forests, Lands and
Natural Resource Operations

Coast Area

Amendment to Forest Licence A59539. Amendment No. 3.

Memorandum of amendment to Forest Licence A59539, executed on the later date written below, between the Regional Executive Director of the West Coast Region and the Licensee of the said Licence.

Whereas it is mutually agreed to amend the terms and conditions of the said Licence and the parties hereto have agreed to amend the same as set forth in this memorandum.

NOW, THEREFORE, in consideration of the premises and other valuable considerations now exchanged between the parties hereto, said parties agree as follows:

1. Section ~~1.01~~ 1.02 is amended by replacing "13 years" with "15 years".

This forms an integral part of the original Licence and should be attached thereto.

Subject to the foregoing, the parties hereto confirm the said Licence.

IN WITNESS WHEREOF the said parties have hereunto set their hands and seals and/or the Licensee has caused its corporate seal to be affixed in the presence of the duly authorized officers in that behalf on the date and year below.

SIGNED by the Licensor
in the presence of

S. Kumar
(Witness Signature)

Sangita Kumar
(Witness Name Printed)

Sharon Hadway
Sharon Hadway, Regional Executive Director
West Coast Region

Date of Signature: Aug 23/13

THE COMMON SEAL of the Licensee
was affixed in the presence of, OR
Signed by the Licensee in the presence of

J Biddlows
(Witness Signature)

THERESA BEDDOWS.
(Witness Name Printed)

REGISTERED FOREST TECHNOLOGIST PROVINCE OF BRITISH COLUMBIA JOSHUA M. HIEBERT NO. 0556

(Licensee Signature)

JOSH HIEBERT
(Licensee Name Printed)

Date of Signature: July 31/2013

LIONS GATE
FOREST PRODUCTS LTD

Andrew Ashford, District Manager
Ministry of Forests, Lands and Natural resources
North Island Central Coast District
2217 Mine Road, PO Box 7000
Port McNeill, BC
V0N 2R0

August 31, 2015

REFERENCE: CUTTING PERMIT APPLICATION – FL A59539 CP 007

Lemare Lake Logging Ltd (LLL) makes application for Cutting Permit (CP) '007'.

This CP application is comprised of 2 cut-blocks (LEC17 and EC38) located in the East Creek Drainage.

The cut-block contained in this application are included in the Lemare Lions Gate FSP. The cut-blocks are entirely contained within FL A59539.

LGFP has notified the Quatsino and had a full information sharing session with Ralph Wallas, his team and Kathy DesRochers on May 14, 2014 regarding our plans for this area. During our information sharing it was determined that no Archaeological assessment would be required for the block LEC17. During the engineering and field work there were no heritage features or archaeological important features identified within our proposed cut blocks or along our roads in LEC17 or EC38.

The roads required to access these blocks are approved under road permit R17089, and/or pending approval.

Included in this CP application are the following attachments (attached in ECAS):

- 1 copy of the signed CP application (this letter);
- 1:5,000 scale Appraisal Map(s);
- 1:5,000 scale Cruise Map(s);
- Cruise DAT Files;
- Cruise Compilations;
- 1:5,000 scale Road Construction Map;
- 1:5,000 scale Plot Map;
- Notification to First Nations (Quatsino) of intent to construct new roads and harvest cut-blocks within T0629;

PO Box 1700.

Port McNeill, BC V0N 2R0

TEL (250) 956-3123 FAX (250) 956-4888 Email: office@lemare.ca

Please note, all the above attachments were submitted into ECAS. The electronic submissions associated with this application are:

- ECAS id/submission # 73182
- ESF id/submission # 1440225

Please send the approval to Lions Gate Forest Products Ltd. Attention: Josh Hiebert

For further information, please contact the undersigned.

Regards,

Joshua Hiebert, RFT, ATC
Planning Manager
LIONS GATE FOREST PRODUCTS LTD.
3341 Mine Road – PO Box 1700
Port McNeill, B.C., Canada V0N 2R0
Telephone: (250) 956-3123
Fax: (250) 956-4888
Email: jhiebert@lemare.ca

LIONS GATE
FOREST PRODUCTS LTD

Andrew Ashford, District Manager
Ministry of Forests, Lands and Natural resources
North Island Central Coast District
2217 Mine Road, PO Box 7000
Port McNeill, BC
V0N 2R0

November 26, 2015

REFERENCE: CUTTING PERMIT APPLICATION – FL A59539 CP 008

Lemare Lake Logging Ltd (LLL) makes application for Cutting Permit (CP) '008'.

This CP application is comprised of 1 cut-block (LEC18) located in the East Creek Drainage.

The cut-block contained in this application are included in the Lemare Lions Gate FSP. The cut-blocks are entirely contained within FL A59539.

LGFP has notified the Quatsino and had a full information sharing session with Ralph Wallas, his team and Kathy DesRochers on May 14, 2014 regarding our plans for this area. We had another information sharing meeting During our information sharing it was determined that no Archaeological assessment would be required for the block LEC18. During the engineering and field work there were no heritage features or archaeological important features identified within our proposed cut blocks or along our roads in LEC18.

The roads required to access these blocks are approved under road permit R17089, and/or pending approval.

Included in this CP application are the following attachments (attached in ECAS):

- 1 copy of the signed CP application (this letter);
- 1:5,000 scale Appraisal Map(s);
- 1:5,000 scale Cruise Map(s);
- Cruise DAT Files;
- Cruise Compilations;
- 1:5,000 scale Road Construction Map;
- 1:5,000 scale Plot Map;
- Notification to First Nations (Quatsino) of intent to construct new roads and harvest cut-blocks within T0629;

Please note, all the above attachments were submitted into ECAS. The electronic submissions associated with this application are:

PO Box 1700.

Port McNeill, BC V0N 2R0

TEL (250) 956-3123 FAX (250) 956-4888 Email: office@lemare.ca

- ECAS id/submission # 75415
- ESF id/submission # 1464127

Please send the approval to Lions Gate Forest Products Ltd. Attention: Josh Hiebert

For further information, please contact the undersigned.

Regards,

Joshua Hiebert, RFT, ATC
Planning Manager
LIONS GATE FOREST PRODUCTS LTD.
3341 Mine Road – PO Box 1700
Port McNeill, B.C., Canada V0N 2R0
Telephone: (250) 956-3123
Fax: (250) 956-4888
Email: jhiebert@lemare.ca

Quality - Value - Stewardship

Andrew Ashford, District Manager
Ministry of Forests, Lands and Natural resources
North Island Central Coast District
2217 Mine Road, PO Box 7000
Port McNeill, BC
V0N 2R0

December 15, 2015

REFERENCE: CUTTING PERMIT APPLICATION – FL A59539 CP 009

Lemare Lake Logging Ltd (LLL) makes application for Cutting Permit (CP) '009'.

This CP application is comprised of 1 cut-block (LEC19) located in the East Creek Drainage.

The cut-block contained in this application are included in the Lemare Lions Gate FSP. The cut-blocks are entirely contained within FL A59539.

LGFP has notified the Quatsino and had a full information sharing session with Ralph Wallas, his team and Kathy DesRochers on May 14, 2014 regarding our plans for this area. We had another information sharing meeting on September 29, 2015. During our information sharing it was determined that an Archaeological assessment would be required for the block LEC19. During the Archaeological assessment there was no no heritage features or archaeological important features identified within our proposed cut blocks or along our roads in LEC19.

The roads required to access these blocks are approved under road permit R17089, and/or pending approval.

Included in this CP application are the following attachments (attached in ECAS):

- 1 copy of the signed CP application (this letter);
- 1:5,000 scale Appraisal Map(s);
- 1:5,000 scale Cruise Map(s);
- Cruise DAT Files;
- Cruise Compilations;
- 1:5,000 scale Road Construction Map;
- 1:5,000 scale Plot Map;
- Notification to First Nations (Quatsino) of intent to construct new roads and harvest cut-blocks within T0629;

Please note, all the above attachments were submitted into ECAS. The electronic submissions associated with this application are:

PO Box 1700.

Port McNeill, BC V0N 2R0

TEL (250) 956-3123 FAX (250) 956-4888 Email: office@lemare.ca

- ECAS id/submission # 76053
- ESF id/submission # 1470851

Please send the approval to Lemare Lake Logging Ltd. Attention: Josh Hiebert

For further information, please contact the undersigned.

Regards,

Joshua Hiebert, RFT, ATC
Planning Manager
LEMARE LAKE LOGGING LTD.
3341 Mine Road – PO Box 609
Port McNeill, B.C., Canada V0N 2R0
Telephone: (250) 956-3123
Fax: (250) 956-4888
Email: jhiebert@lemare.ca

Page 103 to/à Page 105

Withheld pursuant to/removed as

DUPLICATE

BRITISH
COLUMBIA

File: 11400-25/R20685
Block(s): TIN5

October 29, 2015

Gwa'Nak Resources Ltd.
Post Office Box 5120
Port Hardy, British Columbia
V0N 2P0

Dear Licensee:

Re: Amendment to Road Permit R20685

Further to your Road Permit Amendment Application dated October 26, 2015, this is approval of amendment #1, in accordance with clause 1.05 of that permit, for the new road section(s) highlighted on the attached Exhibit 'A' and included in the following table:

Road Name	Stations	Metres	Activity Type
TIN-443	0+000 to 2+395	2395	RP Transfer & New Construction

This amendment is subject to the following:

(a) The *Forest Act* and the regulations made under that act,
(b) all provisions and requirements of the *Forest Practices Code of British Columbia Act* and the regulations made under that act, and
(c) the *Forest and Range Practices Act* and regulations made under that act.

The attached Schedule A forms an integral part of the document for this road permit and should be attached thereto.

Yours truly,

Andrew Ashford, RPF
District Manager

Ministry of Forests, Lands and Natural Resource Operations
North Island-Central Coast
Natural Resource District
Location:
2217 Mine Road
Port McNeill, BC V0N 2R0
Mailing Address:
P.O. Box 7000
Port McNeill, BC V0N 2R0
Tel: (250) 956-5000
Fax: (250) 956-5079

Gwa'Nak Resources Ltd.

Attachment(s): Schedule A
maps

A59539 Page 107 of 114 FNR-2016-61947

SCHEDULE A

Special Provisions

1. Timber Mark

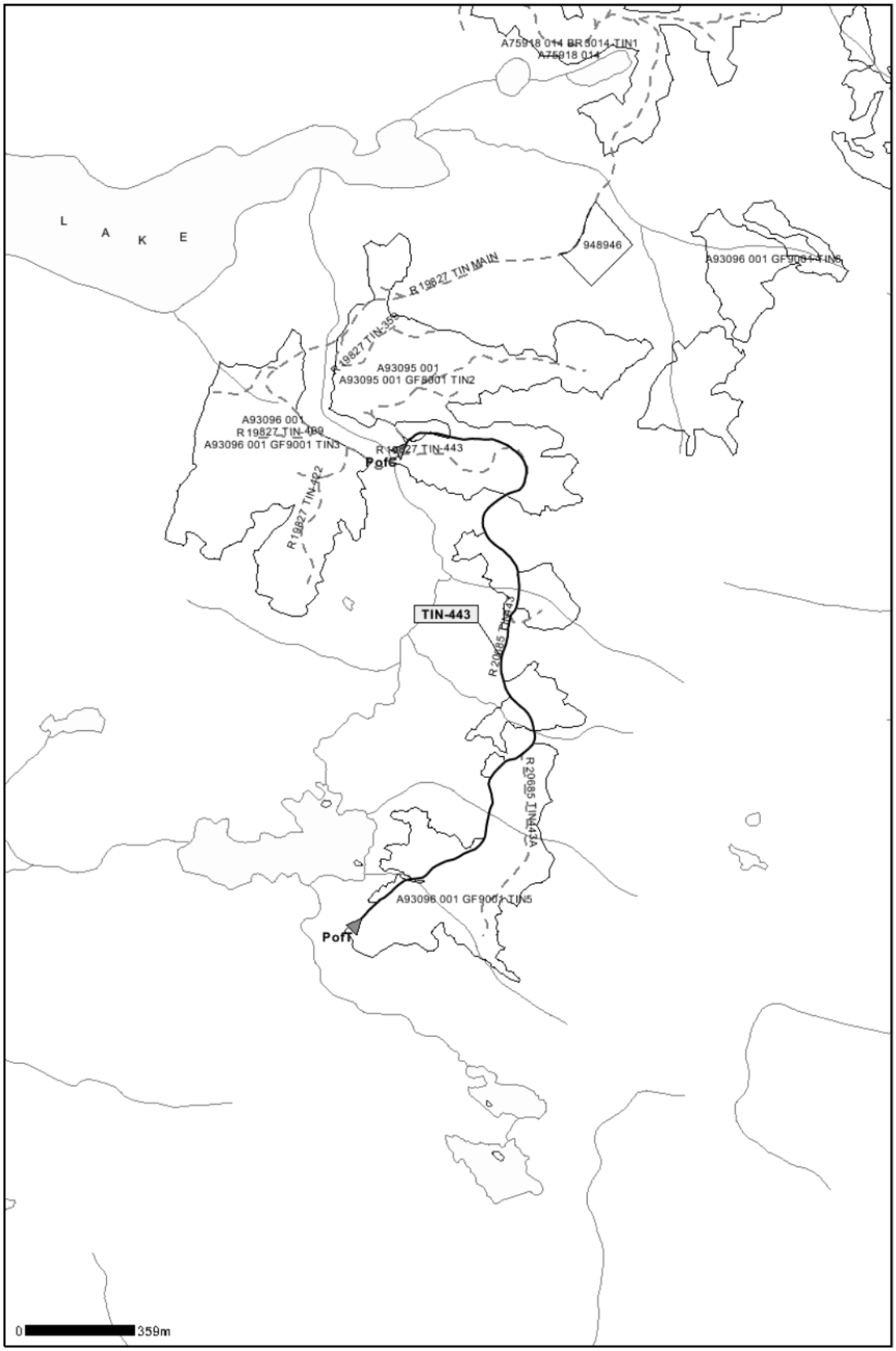
   For those roads shown on the applicable map (Exhibit A) referred to in clause 2.01 of the permit, the timber mark shall be:

GF80R1

BRITISH COLUMBIA

EXHIBIT A

MAP OF : R20685 Amendment # 1 (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RANGE 2 COAST DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : TIMBER SUPPLY AREA MGT UNIT NO : 33
ESF SUBMISSION ID : 1456009 BCGS MAPSHEET NO : 92M.014	SCALE : 1:20000 at A Size Length (Km): 2.395	UTM : 9 NAD : NAD 83	DRAWN BY : FTA DATE : Oct 26, 2015



Legend

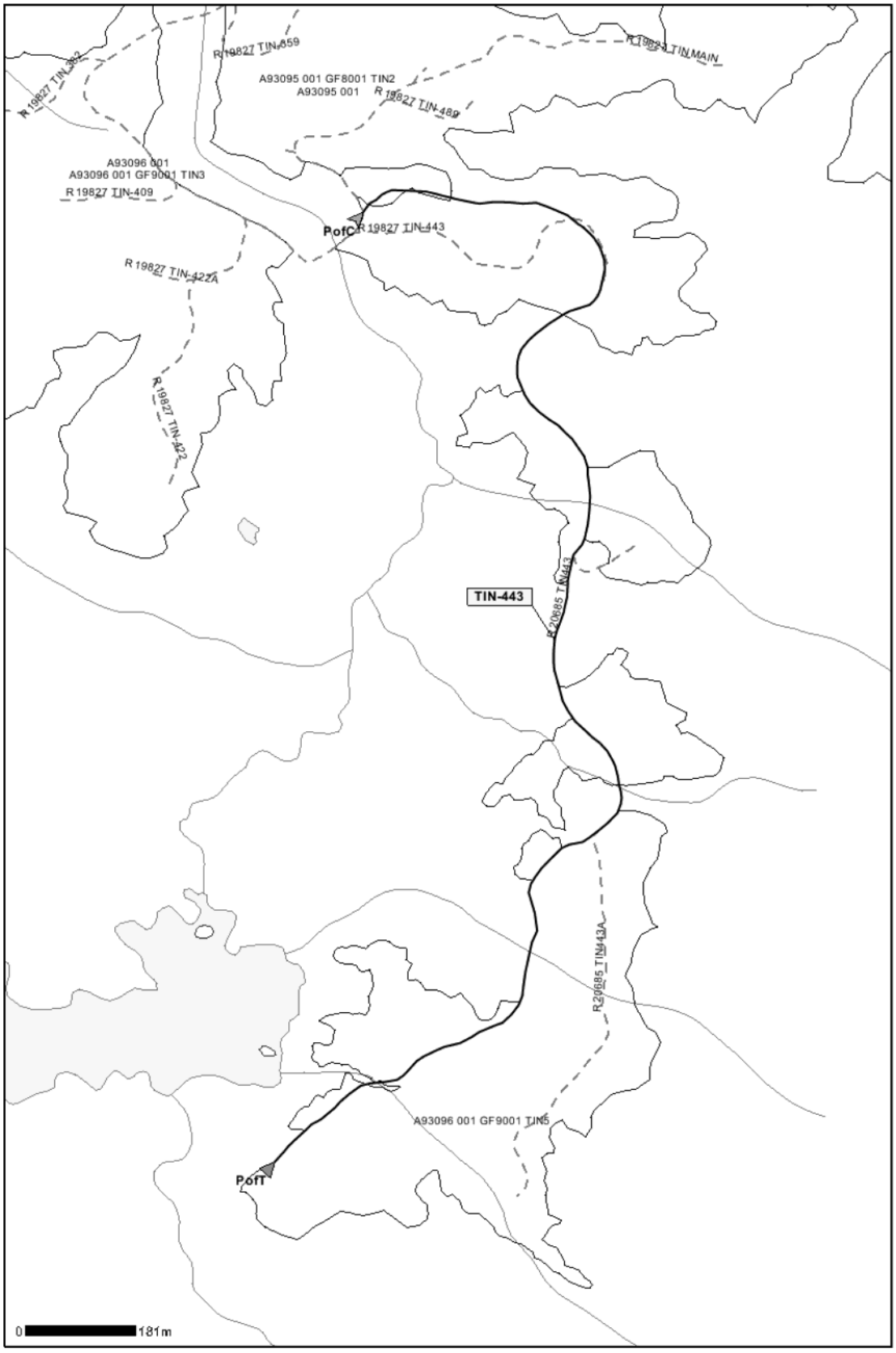
- Tenure Application
- Tenure Road Application
- Retired Tenure Road
- P of C
- P of T
- Tenure Feature
- Range
- TFL
- Provincial Forest
- Forest Service Road
- Highway
- Municipal Road
- Non Status Road
- Recreation Trails
- Road Permit
- SUP Road
- Right of Way
- Schedule B CP Road
- Mineral Tenure Points
- Cities
- Waterbodies
- River/Stream
- Coastline / Island

TIN-443 (Length: 2.395 Km, R/W: 75 m)
PofC UTM9 615444, 5670294
PofT UTM9 615364, 5668740

BRITISH COLUMBIA

EXHIBIT A

MAP OF : R20685 Amendment # 1 (shown in bold black)			
FOREST REGION : RWC FOREST DISTRICT : DNI	TSA : 33 LAND DISTRICT : RANGE 2 COAST DISTRICT	PULPWOOD AGREEMENT :	MGT UNIT TYPE : TIMBER SUPPLY AREA MGT UNIT NO : 33
ESF SUBMISSION ID : 1456009 BCGS MAPSHEET NO : 92M.014	SCALE : 1:10000 at A Size Length (Km): 2.395	UTM : 9 NAD : NAD 83	DRAWN BY : FTA DATE : Oct 26, 2015



Legend

- Tenure Application
- Tenure Road Application
- Retired Tenure Road
- P of C
- P of T
- Tenure Feature
- Range
- TFL
- Provincial Forest
- Forest Service Road
- Highway
- Municipal Road
- Non Status Road
- Recreation Trails
- Road Permit
- SUP Road
- Right of Way
- Schedule B CP Road
- Mineral Tenure Points
- Cities
- Waterbodies
- River/Stream
- Coastline / Island

TIN-443 (Length: 2.395 Km, R/W: 75 m)
PofC UTM9 615444, 5670294
PofT UTM9 615364, 5668740

Table 1. Observations, terrain hazards, and consequences for sections of LEC Main in LEC18.

Road Section	Hillslope Gradient (%)	Terrain/ Drainage	Remarks	Construction	Hazard	Construction Remarks & Recommendations	Geomorphic Consequences
Lower East Creek Main							
6+621 to 6+670	+65% to 80%, -70% to 80%	Moderately well-drained morainal veneer over steep, hummocky bedrock.	Some leaning trees, areas with grassy, saturated soil.	Conventional construction[a]	HIGH	May use full-bench, no sidecast construction, or use constructed fill. Constructed fill should be at least 1m medial diameter, and stacked at no more than 1:1 H/V on a 1m-wide, slightly outsloped bench excavated below grade.	HIGH: As above.
				Full-bench, no sidecast[b]	LOW		
				Constructed fill[c]	LOW		
6+670 to 6+765	+65%, -60%	Well-drained morainal veneer over steep, hummocky bedrock.		Conventional construction	MODERATE		HIGH: Road failures would deposit in a powerful S5 stream and quickly transport to fish-bearing reaches.
				Full-bench, no sidecast	LOW		
6+765 to 6+809	+45%, -50% to 60%	As above.	Slide at about 0+809.	Conventional construction	ELEVATED LOW	Too steep to support entire fill, and stream immediately downslope.	HIGH: As above
				Full-bench, no sidecast	LOW		
6+809 to 6+892	+50% to 60%, -60% to 70%	Well-drained morainal veneer overlying steep gully sidewalls.	40% slopes in slide path at bottom of gully	Conventional construction	MODERATE	Full-bench, no sidecast on approaches; sufficiently-sized log culvert or bridge across debris flow path.	MODERATE: Road failures would probably transport to confluence with S5 at valley bottom, which is dammed at this point.
				Full-bench, no sidecast	LOW		
6+892 to 6+930	+40% to 45%, -35% to 40%	Well-drained morainal mantle overlying moderately steep, hummocky bedrock.		Conventional construction	LOW		MODERATE: Material from road failures would likely reach the S5 stream at the valley bottom.
6+930 to 6+967	+50% to 55%, -50% to 60%, series of small gullies	Moderately well-drained, gullied, morainal mantle overlying moderately steep bedrock.	Road goes over a series of small gullies.	Conventional construction	ELEVATED LOW	Use log culverts in stream crossings, or coarse, angular fill and a pipe of sufficient diameter. No sidecasting in streams.	MODERATE: Sidecast material or material from road failures would enter tributary streams feeding S5 stream.
				Full-bench, no sidecast	LOW		
6+967 to	+50% to 60%, small 30%	Moderately well-drained morainal	Small bench along road alignment,	Conventional construction	LOW		LOW: Most material from road failures would run out

Road Section	Hillslope Gradient (%)	Terrain/ Drainage	Remarks	Construction	Hazard	Construction Remarks & Recommendations	Geomorphic Consequences
7+042	bench, -35% to 50%	blanket over moderately sloping, irregular, bedrock.	moderate slopes below. Lower slopes may be erosional scarp.				on moderately sloping benches above S5 stream.
7+042 to 7+065	Stream crossing; -45% +50%; -80% gully sidewalls	3-4m high gully incised into morainal blanket.	Stream has ~2m bankfull width	Conventional construction Coarse angular fill on approaches and culvert of sufficient diameter	**ELEVATED** **LOW** **LOW**	May also use sufficiently-sized log bridge. Fairly simple stream crossing.	**LOW:** Stream has poor transport potential. Most material from road failures would be slowly transported to S5 stream below.
7+065 to 7+170	+35% to 40%; -27% to 30%	Well-drained morainal mantle overlying moderately sloping, undulating bedrock.	Several small stream crossings	Conventional construction	**LOW**	Pipe and fill for stream crossings	**LOW:** Material from road failures would likely run out before reaching S5 stream.
7+170 to 7+185	-55% +70%, benches 5-10m below	Well-drained morainal blanket over moderately steep bedrock.	Start of section is a large debris flow path.	Conventional construction Full-bench, partial (50%) sidecast[d]	**ELEVATED** **LOW** **LOW**	Benches should hold some fugitive material.	**MODERATE:** S5 stream a short distance below. Spoil or material from road failures would enter the S5 stream.
7+185 to 7+208	±15% to 20%	Patchy blocky to rubbly colluvial debris overlying a bedrock channel.	Debris forms a blanket near S5 confluence. Stream has about 2.5 to 3m bankfull width.	Conventional construction	**VERY LOW**	Use a culvert or log bridge of sufficient diameter to cross this stream.	**LOW:** Little material to fail here, and most would simply be deposited where slide debris went.
7+208 to 7+304	+25% to 45%, -25% to 35%	Well-drained morainal blanket overlying moderatley sloping, undulating bedrock.		Conventional construction	**VERY LOW**	Routine	**LOW:** All material from road failures would deposit on benches below road.
7+304 to 7+320	±20% to 35% stream gradient	Stream incised into moderately well-drained morainal blanket.	Stream has 3-4m bankfull width, jams of large woody debris, and carris up to 15-20cm bedload.	Conventional crossing with adequately-sized log culverts	**LOW**	Avoid sidecasting into stream channel due to high transport potential.	**MODERATE:** This stream is competent enough to move material from road construction and failures to the valley bottom S5.
7+320 to 7+471	+30% to 35%, 2-3m drop (-45%) with gentle bench	Well-drained morainal blanket with an incised escarpment on the western edge. Broadly	Runout slopes below. Very low hazard.	Conventional construction	**VERY LOW**		**VERY LOW:** Material from road failures would run out on bench below.

Road Section	Hillslope Gradient (%)	Terrain/ Drainage	Remarks	Construction	Hazard	Construction Remarks & Recommendations	Geomorphic Consequences
	(20% to 25%) below	concave.					
7+471 to 7+608	+25% to 35%, -15% to 25% with small escarpment below road	Well-drained morainal blanket with an incised escarpment on the western edge.	Several streams: 7+471 to 7+486 – 1 to 1.5m bankfull width, 75mm transport 7+492 – 3 to 3.5m bankfull width, >200mm transport	Conventional construction with appropriately sized log culverts for crossings	VERY LOW	Avoid sidecasting into streams, otherwise completely routine.	LOW except around 7+492 where MODERATE: Most road failures would simply run out on bench below. Sediment delivered to stream at 7+492 would be fairly rapidly reworked downslope to the valley bottom S5 stream.
7+608 to 7+712	+25% to 40%; -18% to 35%	Similar to above. Several incised to gullied streams.	Stream at 7+608 – 2m bankfull width, 100-150mm bedload 7+701 to 7+712 – 1.5 to 2m bankfull width, 150 mm bedload	Conventional construction with appropriately sized log culverts for crossings	VERY LOW	Approaches steep southern wall of gully around 7+712	LOW, except near streams where MODERATE: Most road disturbance would run out on bench below. Streams at crossings have moderate transport potential and appear supply-limited.
7+712 to 7+740	Steep edge of stream draw; -60%, +75%	Moderately well-drained, incised morainal blanket.	Stream below with -25% to 40% gradient (gullied) and moderate transport potential	Conventional construction	MODERATE	Sidecasting hazard as stream is directly below.	MODERATE: Stream has moderate transport potential and would deliver material to valley bottom S5 over time.
				Full-bench, no sidecast	LOW		
7+740 to 7+753	+40%, -30% for 3m then break to moderately steep slopes above S5 stream	Well-drained morainal blanket incised on western edge, overlying moderately sloping, steeped bedrock.	Road is sufficiently above slope break by about 7+753	Conventional construction	LOW	Ensure road is constructed entirely on bench from 7+740 to 7+753. Avoid sidecasting material downslope here.	MODERATE: Fugitive sidecast material could reach S5 below.
7+753 to 7+938	+25% to 40%; -40% to 45%	Well-drained morainal blanket over moderately sloping, stepped bedrock.	S5 stream downslope.	Conventional construction	LOW		MODERATE: As above.
7+938 to 8+161	+40%, -0% to 30%, very gentle 0% to 20% below	Well-drained morainal mantle over moderately sloping, undulating bedrock.	A few small S6 streams: ~8+080 <1m wide, ephemeral; 8+161, <1m wide, some rubble bedload	Conventional construction	VERY LOW	Debris in streams is sourced from upslope debris flows/slides. Aggradation point.	VERY LOW: Streams do not appear to be competent to move large material. This area is a runout slope.

Road Section	Hillslope Gradient (%)	Terrain/ Drainage	Remarks	Construction	Hazard	Construction Remarks & Recommendations	Geomorphic Consequences
			(likely infiltrating)				
8+161 to 8+387	+20% to 35%; -0% to 25%	Colluvial blanket overlying gentle bedrock.	This portion of the valley is a glacial cirque. Large streams at 8+252, 8+312 (up to 3m bankfull width, rubble transport up to about 150mm, some bank erosion and woody debris jams).	Conventional construction	VERY LOW	Use adequately-sized culverts or fords to cross streams.	VERY LOW (MODERATE around streams): This is a depositional area. Streams may be capable of transporting gravel-sized road material, however. Terrain near the road has some fan-like characteristics, however.

a- Conventional construction: All material excavated from the cutslope is used to create a load-bearing fill slope on the downslope side of the road prism. If full-bench construction is used, all material is sidecast.

b- Full bench, no sidecast (single phase): material is excavated directly into a truck or cast forward or back. The final condition is a full bench road with minimal material sidecast. In this context, "sidecast" implies deliberately placed material. During construction of the road some spillage of material is likely; however reasonable efforts should be made to limit fugitive material.

c- Constructed fill: A partial bench is excavated for the running surface of the road, and coarse, angular rock of at least 1m medial diameter is stacked at no more than 1:1 H/V on a 1m-wide, slightly outsloped bench excavated below grade to make up the rest of the running surface. Excess material is hauled away.

d- Full bench, partial sidecast: A full bench is constructed for the running surface of the road. Maximum fill depth usually varies between 0.75 and 1.5 m, with the remainder end-hauled to a suitable location or back-cast. The outside shoulder of the road may be constructed with fill, but it is not intended to be load-bearing and should be outsloped to prevent traffic. Incorporation of fine material in the fillslope should be avoided. The hazard of fillslope instability is reduced by virtue of the smaller fill volume.