

# **Tree Farm Licence 37**

Review and Comment Report for Management Plan 10

January 2018

Mike Davis, R.P.F Tenures Forester

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# 1. Introduction

Opportunity to review and provide comments on the TFL 37 Draft Management Plan (MP) #10 was based on a strategy approved by the Regional Executive Director on January 29, 2015 (copy included in Appendix A). The first phase was public review and First Nations' information-sharing of a draft timber supply analysis information package (IP). The second phase was public review and First Nations' information-sharing of a draft MP that included the accepted IP and the timber supply analysis (TSA) results. This document details the steps taken during these processes.

## 2. Review of Draft IP

The public review, including information-sharing with First Nations, of MP #10 began in February 2017. On or about February 7, 2017 copies of the draft IP were provided to the following provincial government agencies:

Ministry of Forests, Lands, Natural Resource	
Operations and Rural Development	FLNRORD – North Island - Central Coast
(FLNRORD) - Forest Analysis and Inventory	Resource District (NICCRD)
Branch (FAIB), Nanaimo	

Maps associated with the IP were sent to the NICCRD office. Both FLNRORD offices were also provided a DVD containing the documents and the maps. WFP offered to print the maps if requested to do so (this was not requested).

On or about February 7, 2017 copies of the draft IP (on DVD) were provided to the following First Nations and First Nation organizations:

Nanwakolas Council	
(for K'omoks, Mamalilikulla-Qwe'Qwa'Sot'Em, Tlowtsis,	'Namgis First Nation
We Wai Kai and Wei Wai Kum First Nations)	
Mowachat-Muchalaht First Nation	Kwakiutl First Nation
Quatsino First Nation	

The DVD contained the draft IP document and the associated maps. WFP offered to print the maps for First Nations if requested to do so (this was not requested).

Notification letters were sent to registered trapline holders where names and addresses could be obtained. The facilitator for WFP's CSA advisory group for TFL 37 was notified prior to the review period beginning and a reproduction of the newspaper ad was distributed to the members. Ads were run in the *North Island Gazette* newspaper on February 8<sup>th</sup> and February 15<sup>th</sup>, 2017 and in the *Campbell River Mirror* on February 10<sup>th</sup> and February 17<sup>th</sup>, 2017. The ads stated that the draft IP was available for review and comment from February 10, 2017 until April 13, 2017 at the following locations:



- WFP Woss office
- WFP Corporate Campbell River office
- FLNRORD NICCRD office
- WFP internet site

and provided phone numbers and an email address for providing comments.

One member of the general public visited WFP's corporate office in Campbell River to review and discuss the draft IP. No other known public visits were made to any of the viewing locations.

In an email dated April 24, 2017 FAIB provided comments regarding the draft IP. WFP replied to the comments on May 4, 2017 and on May 23, 2017 FAIB responded that the responses appeared to address all concerns.

In an email dated August 2, 2017 FAIB indicated that the VDYP procedures used by WFP to generate unmanaged stand yields were reasonable.

Documents and a detailed timeline associated with this portion of the review and comment are included in Appendix A.

# 3. Review of Draft MP and Timber Supply Analysis

On or about September 13, 2017 copies of the draft MP #10 were provided to the following provincial government agencies:

FLNRORD - FAIB, Nanaimo	FLNRORD – NICCRD
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The maps used during review of the IP were used again for review of the MP. All agency offices were sent a DVD containing the documents and the maps. WFP offered to print the maps if requested to do so (this was not requested).

On or about September 14, 2017 copies of the draft MP #10 were sent to the following First Nations and First Nation organizations:

Nanwakolas Council	'Namgis First Nation
Mowachat-Muchalaht First Nation	Kwakiutl First Nation
Quatsino First Nation	

WFP provided the draft MP #10 digitally (on DVD). The DVD contained the draft MP #10 document and the associated maps. WFP offered to print the maps for First Nations if requested to do so (this was not requested). Follow-up emails were sent to each of the above First Nations and First Nation organizations on October 6, 2017 reminding them of the opportunity to provide comments on the draft MP #10.



Notification letters were sent to registered trapline holders (based on an updated version of the contact list used in February 2017). Ads were run in the *North Island Gazette* newspaper on September 13<sup>th</sup> and September 20<sup>th</sup>, 2017 and in the *Campbell River Mirror* on September 15<sup>th</sup> and September 22<sup>nd</sup>, 2017. The ads stated that the draft MP was available for review and comment from September 15, 2017 until November 14, 2017 at the following locations:

- WFP Corporate Campbell River office
- FLNRORD NICCRD office
- WFP internet site

and provided phone numbers and an email address for providing comments.

On October 12<sup>th</sup>, 2017 WFP staff met with FAIB staff to tour 2 WFP sawmills and to review the analyses WFP undertook to investigate using LiDAR (Light Detection and Ranging) data to measure timber supply analysis inputs.

On November 16<sup>th</sup> a list of questions from the Nanwakolas Council was forwarded via a FAIB employee. A response was provided by WFP on November 22<sup>nd</sup>.

Documents and a detailed timeline associated with this portion of the review and comment are included in Appendix B.

# 4. Summary of Revisions made to Documents

As a result of the review process additional information was provided in the final Information Package.

Other revisions made were to correct typographical errors or to update information. All other responses to comments and questions provided were made directly to the provider (copies of which are in the appendices to this document).



# Appendix A

**Documents associated with Review of Draft IP** 

# **Documents associated with Review of Draft IP**

The following table provides the timeline for these items plus dates of events associated with this process. Copies of documents follow this table.

DATE	ITEM	
January 6, 2015	WFP submits proposed Review and Comment strategy	
January 29, 2015	FLNRORD approves Review and Comment strategy	
February 6, 2017	WFP provides pdf version of upcoming newspaper ad to CSA	
	community advisory group (CAG) facilitator to share with CAG	
	members	
February 7, 2017	<ul> <li>WFP provides draft IP to FLNRORD offices and First Nations</li> </ul>	
	<ul> <li>Notification letters sent to trapline holders</li> </ul>	
February 8, 2017	Ad run in North Island Gazette	
February 10, 2017	Ad run in Campbell River Mirror	
,	Review period begins	
February 15, 2017	Ad run in North Island Gazette	
February 17, 2017	Ad run in Campbell River Mirror	
April 13, 2017	Comments received from P. Griffiths	
	Review period ends	
April 24, 2017	Comments received from FAIB	
April 27, 2017	WFP forwards VDYP7 input and parameter files to FAIB	
May 4, 2017	WFP responds to FAIB comments of April 24 <sup>th</sup>	
May 23, 2017	<ul> <li>FAIB replies that WFP responses appear to address all concerns.</li> </ul>	
	<ul> <li>FAIB requests TIPSY inputs.</li> </ul>	
	<ul><li>WFP forwards TIPSY inputs.</li></ul>	
June 30 - August 2,	<ul><li>Emails between FAIB and WFP re: VDYP 7 adjustment files.</li></ul>	
2017	<ul> <li>FAIB concludes that VDYP 7 yields are reasonable.</li> </ul>	

January 6, 2015

by email only

Ministry of Forests, Lands and Natural Resource Operations 2100 Labieux Road Nanaimo, B.C. V9T 6E9

# ATTN.: Sharon Hadway, Regional Executive Director

# Re: Approval of a Strategy for Public Review of TFL 37 Management Plan #10

Western Forest Products (WFP) is preparing Management Plan (MP) #10 for TFL 37. The *TFL Management Plan Regulation* (November 2009) specifies the steps required to obtain an approved MP, with the first step being to submit, for approval, a strategy for the review of the MP to the Regional Executive Director. The attached document is that proposed review strategy.

WFP hereby seeks approval of the attached review strategy for TFL 37 Management Plan #10.

Please contact me if you require any clarification. My phone number is 250-286-4117.

Yours truly,

Mike Davis, RPF Planning Forester

Western Forest Products Inc.

pc: K. Izzard, FAIB P. Barolet, NICCRD

Attach: TFL 37 MP #10 Proposed Referral and Public Review Strategy (4 pages)



## TFL 37 Management Plan #10

### **Proposed Referral and Public Review Strategy**

Western Forest Products (WFP) is preparing Management Plan (MP) #10 for TFL 37. The *TFL Management Plan Regulation* specifies the steps required to obtain an approved MP. The first step is to submit a strategy for review of MP #10 for approval by the Regional Executive Director (RED) of the Ministry of Forests, Lands and Natural Resource Operations (FLNRO). This document is that proposed review strategy.

### **General**

The first step in the strategy will be to make a draft timber supply analysis information package (IP) available for review. Comments received will be considered and an updated IP created. Later the draft MP will be made available for review. The draft MP will include the timber supply analysis (TSA) and the updated IP.

The draft IP and the draft MP will be distributed to FLNRO and First Nations and be made available to the public for review as detailed below (where applicable, references to the MP also apply to the IP for its review).

### **Agencies**

Table 1 lists the contacts that will be sent the documents. Paper copies of the documents and maps associated with the MP will be sent to the North Island – Central Coast Resource District (NICCRD) office to support the public review. FAIB and NICCRD will also be provided with a CD containing the documents and maps. WFP will print the maps for FAIB if requested to do so.

Table 1 - Agency Contacts

Agency	Main Contact(s)	Other Contact(s)
FAIB	Kelly Izzard	Bud Koch
NICCRD	Paul Barolet, Kathy DesRochers	

FAIB will notify other potentially interested provincial and federal agencies that the MP is available for review.

### **First Nations**

WFP is aware that the Nanwakolas / British Columbia Framework Agreement and Nanwakolas Reconciliation Protocol are in effect. While these are "government to government" agreements, WFP's information-sharing efforts will contribute to the engagement processes included in the agreements. To avoid duplication and avoid confusion, WFP will liaise with Provincial representatives in advance of making a formal submission to the Province in order to address the needs of each First Nation and groups of First Nations. This may entail WFP directly referring documents to a First Nation/First Nation Council or FLNRO forwarding documents on behalf of WFP. Due to timelines in the "government to government" agreements, First Nations' consultation periods will not necessarily coincide with public review periods.

Copies of the MP provided to the First Nations listed in Table 2 will be in a format requested by each First Nation: paper hard-copy or digitally (on CD). CD's will contain the documents and associated maps. If a digital copy is requested, an accompanying letter will extend an offer to print the maps. The draft MP will be provided to the Nanwakolas Council and, as detailed in the



Framework Agreement, they will be responsible for managing the referral for the appropriate member nations.

Table 2 - First Nations

First Nation	Main Contact	Forestry Contact
Kwakiutl First Nation	Chief Councillor Coreen Wilson-Child	Tom Child
Mowachaht-Muchalaht First Nation	Hereditary Chief Mike Maquinna	Michael McGee (Band Administrator)
'Namgis First Nation	Chief Councillor Debra Hanuse	Rachel Dalton (Referrals Coordinator)
Quatsino First Nation	Chief Councillor Robert Cahill	Ralph Wallas (Forestry Coordinator)
Nanwakolas Council	Art Wilson (Referrals Manager)	
Members potentially affected		
K'ómoks First Nation	Chief Rob Everson	Melinda Knox
Mamalilikulla- Qwe'Qwa'Sot'Em First Nation	Hereditary Chief Harold Sewid	
Tlowitsis Tribe	Chief John Smith	
Wei Wai Kum (Campbell River Band)	Chief Robert Pollard	Ken Cooper (Band Manager)
Wei Wai Kai (Cape Mudge Band)	Chief Ralph Dick Sr.	Lise Steele

# Other Stakeholders and General Public

Notification letters will be sent to potentially interested stakeholders (based on a contact list maintained by WFP's Englewood Operation). The letters and an introductory section on the WFP internet site will summarize the MP content requirements. Ads will be run on 2 separate occasions in the *Campbell River Mirror* and *North Island Gazette* newspapers. The ad will state that the draft MP is available for review for a period of at least 60 days at the following locations:

- WFP Campbell River office
- WFP Woss office
- NICCRD office in Port McNeill
- WFP internet site

and will provide phone numbers, a fax number and an email address for providing comments.

### Newspaper Ad

The newspaper ad referred to above will be similar to the last page of this document (with "Day 1" and "Day 60" replaced with dates that are at least 60 calendar days apart).

## **Communications Sharing with FLNRO**

All letters sent or received by WFP will be copied to the appropriate FLNRO district contact and/or FAIB contact.



As required by the *TFL Management Plan Regulation*, the final MP submission (to FAIB) will include a description of this strategy and a summary of the comments received. It will also include a description of changes made to the MP due to the comments received.

A separate but related submission will be made to the FAIB at the time of the final MP submission. It will include a copy of all correspondence sent or received by WFP with regards to the review of TFL 37 MP #10.

### **Sequential Summary of Steps**

Table 3 presents the chronological order for all steps described above. Some steps may take longer to complete than listed. If a review period begins between June 15<sup>th</sup> and August 15<sup>th</sup> or in December, the review period will be extended by two weeks (to 74 days) to recognize that most people are on vacation for a portion of that time.

Table 3 - Sequence of Events

Step #	Event	Approximate Date(s)
1	WFP submits review strategy (this document) to RED	January 2015
2	RED approves review strategy	January 2015
3	WFP submits, refers and advertises for review a draft IP	May 2015
4	IP review period (at least 60 days) takes place	May – July 2015
5	Government review comments submitted to WFP	September 2015
6	WFP submits, refers and advertises for review a draft MP (including the TSA and updated IP)	January 2016
7	MP review period (at least 60 days) takes place	January - March 2016
8	Government review comments submitted to WFP	April 2016
9	WFP considers any comments received and submits a final MP	May 2016
10	Chief Forester approves MP and determines AAC	September 2016



# Tree Farm Licence 37 Draft Management Plan #10 Available for Review

TFL 37, held by Western Forest Products Inc. (WFP), covers roughly 160,000 hectares of land in the Nimpkish valley located in the north central portion of Vancouver Island. The Management Plan provides a general description of the TFL, a brief history, a list of publicly available planning documents that guide WFP's operations and a timber supply analysis for the TFL. The analysis provides information to assist the Chief Forester of BC in determining the allowable annual cut (AAC) for TFL 37.

The draft Management Plan can be viewed between **Day 1** and **Day 60** during normal business hours at the following locations (please call ahead to arrange an appointment to view):

- WFP Englewood Operation office, 5000 Railway Ave, Woss. Ph: (250) 281-2300
- WFP Timberlands office, #118-1334 Island Highway, Campbell River. Ph: (250) 286-3767
- Ministry of Forests, Lands and Natural Resource Operations office, 2217 Mine Road, Port McNeill. Ph: (250) 956-5000

You can also find the draft Management Plan and reference maps at:

 $\underline{\text{http://www.westernforest.com/sustainability/environmental-stewardship/planning-and-steward$ 

practices/our-forests/

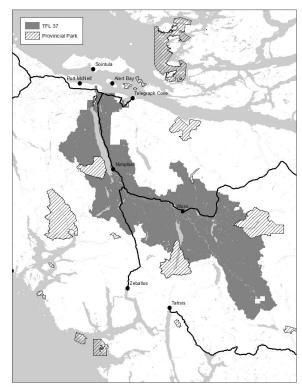
Please write, fax or email comments to:

TFL 37 Management Plan Western Forest Products Inc. #118-1334 Island Highway Campbell River, BC V9W 8C9

Fax: (250) 286-3375

Email: info@westernforest.com







File: 19710-30/TFL37 CLIFF 211829

JAN 29 2015

Mike Davis, RPF Planning Forester Western Forest Products #118-1334 Island Highway Campbell River, British Columbia V9W 8C9

Dear Mike Davis:

Thank you for your submission on January 6, 2015 of a Public Review Strategy for Management Plan No. 10 for Tree Farm Licence 37.

As required by Section 6(2) of the Tree Farm Licence Management Plan Regulation, I hereby approve your Public Review Strategy for Management Plan No. 10 for Tree Farm Licence 37.

Please be advised that the public review process, including information sharing with First Nations, is subject to the terms and conditions outlined in Part 3 of the *Personal Information Protections Act*.

Yours truly,

Sharon Hadway

Regional Executive Director

West Coast Natural Resource Region

cc:

Andrew Ashford, District Manager, North Island Central Coast Natural Resource District Bud Koch, Senior Timber Supply Analyst-TFLs, Forest Analysis and Inventory Branch

# **Mike Davis**

From: Mike Davis

Sent:February-06-17 2:09 PMTo:'annie@island.net'Cc:Kelly McMahon

**Subject:** Review of TFL 37 Timber Supply Assumptions

Attachments: IP\_ad.pdf

#### Hi Annmarie.

I've finished a document summarizing the planned assumptions to use for the upcoming timber supply review of TFL 37. The attached ad will be in the North Island Gazette on Wednesday. Can you please forward it to the Nimpkish Woodlands Advisory Committee members.

I've spoken with Kelly and will likely try to make a presentation to the committee once the timber supply analysis is done. Most people are interested in the AAC forecast rather than the associated assumptions and inputs. If I do present the analysis results, I would give a brief summary of the inputs and assumptions used.

Thanks.

# Mike Davis, RPF Strategic Analysis Forester

Tel 250.286.4117 Cell 250.720.1710 MDavis@westernforest.com

#### westernforest.com





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# Tree Farm Licence 37 Management Plan #10 Timber Supply Analysis Assumptions Available for Review

TFL 37, held by Western Forest Products Inc. (WFP), covers roughly 160,000 hectares of land in the Nimpkish valley located in the north central portion of Vancouver Island. The process of gaining approval of Management Plan #10 and determination of a new allowable annual cut (AAC) for the TFL is underway. The draft Information Package provides a summary of inputs and assumptions that will be used in preparation of a timber supply analysis that provides information to assist the Chief Forester of BC in determining the AAC for TFL 37.

The draft Information Package can be viewed between **February 10, 2017** and **April 13, 2017** during normal business hours at the following locations (please call ahead to arrange an appointment to view):

- WFP Englewood Operation office, 5000 Railway Ave, Woss. Ph: (250) 281-2300
- WFP Timberlands office, #118-1334 Island Highway, Campbell River. Ph: (250) 286-3767
- Ministry of Forests, Lands and Natural Resource Operations office, 2217 Mine Road, Port McNeill. Ph: (250) 956-5000

You can also find the draft Information Package and reference maps at: http://www.westernforest.com/sustainability/environmental-stewardship/planning-and-

practices/our-forests/

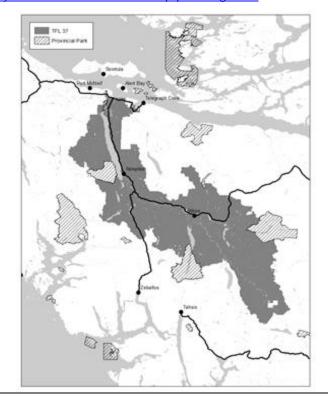
Please write or email comments to:

TFL 37 Information Package Western Forest Products Inc. #118-1334 Island Highway Campbell River, BC V9W 8C9

Email: TSR@westernforest.com



Western Forest Products Inc. DEFINING A HIGHER STANDARD™



February 7, 2017

Ministry of Forests, Lands and Natural Resource Operations - FAIB 2100 Labieux Rd Nanaimo, BC V9T 6E9

# ATTN.: Gordon Nienaber, Timber Supply Forester

# Re: TFL 37 Draft Timber Supply Analysis Information Package

Enclosed is a copy of the draft Information Package (IP) in preparation for Management Plan (MP) #10 for TFL 37 managed by Western Forest Products Inc.. Also enclosed is a DVD that contains the text and the reference maps (that are intended to be plotted on a page size of 25" by 36").

The draft Information Package (IP) provides a summary of inputs and assumptions that will be used in the preparation of the timber supply analysis (TSA). The TSA provides information to assist the Chief Forester of BC in determining the allowable annual cut (AAC) for TFL 37.

The draft IP for TFL 37 is available for public review from **February 10, 2017** until **April 13, 2017** during normal business hours at the following locations:

- WFP Englewood Operation office, 5000 Railway Ave, Woss. Ph: (250) 281-2300
- WFP Timberlands office, #118-1334 Island Highway, Campbell River. Ph: (250) 286-3767
- Ministry of Forests, Lands and Natural Resource Operations office, 2217 Mine Road, Port McNeill. Ph: (250) 956-5000

You can also find the draft Information Package and reference maps at <a href="http://www.westernforest.com/sustainability/environmental-stewardship/planning-and-practices/our-forests/">http://www.westernforest.com/sustainability/environmental-stewardship/planning-and-practices/our-forests/</a>

I may be contacted at (250) 286-4117 or mdavis@westernforest.com if you have any questions.

Regards,

Mike Davis, RPF Strategic Analysis Forester

Western Forest Products Inc.

TPL 37

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February 7, 2017

Ministry of Forests, Lands and Natural Resource Operations - NICCRD Box 7000 2217 Mine Road Port McNeill, BC V0N 2R0

### ATTN.: Paul Barolet, Stewardship Officer

# Re: TFL 37 Draft Timber Supply Analysis Information Package

Enclosed is a copy of the draft Information Package (IP) in preparation for Management Plan (MP) #10 for TFL 37 managed by Western Forest Products Inc.. Also enclosed is a DVD that contains the text and the reference maps (that are intended to be plotted on a page size of 25" by 36").

The draft Information Package (IP) provides a summary of inputs and assumptions that will be used in the preparation of the timber supply analysis (TSA). The TSA provides information to assist the Chief Forester of BC in determining the allowable annual cut (AAC) for TFL 37.

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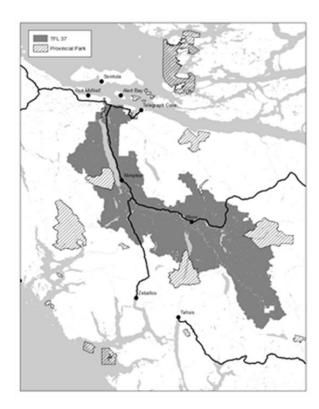
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I may be contacted at (250) 286-4117 or mdavis@westernforest.com if you have any questions.

Regards,

Mike Davis, RPF Strategic Analysis Forester Western Forest Products Inc.

pc: G. Nienaber, FAIB





February 7, 2017

TR0111T807 Samuel B. Cook Box 85 Alert Bay, BC V0N 1A0

Dear Samuel.

# Re: TFL 37 Draft Timber Supply Analysis Information Package

TFL 37, held by Western Forest Products Inc. (WFP), covers roughly 160,000 hectares of land in the Nimpkish valley located in the north central portion of Vancouver Island. The process of gaining approval of Management Plan #10 and determination of a new allowable annual cut (AAC) for the TFL is underway. The draft Information Package provides a summary of inputs and assumptions that will be used in preparation of a timber supply analysis that provides information to assist the Chief Forester of BC in determining the AAC for TFL 37.

WFP records indicate that you hold a trapline within the boundaries of TFL 37. If this is not true you can disregard this letter; however, I would appreciate you informing me that you do not hold the trapline indicated above so our records can be updated.

The draft Information Package can be viewed between **February 10**, **2017** and **April 13**, **2017** during normal business hours at the following locations (please call ahead to arrange an appointment to view):

- WFP Englewood Operation office, 5000 Railway Ave, Woss. Ph: (250) 281-2300
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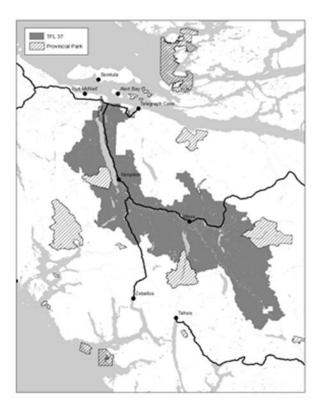
Comments received by April 13, 2017 may result in revisions to the IP. Please write or email comments to:

Attn: Mike Davis, RPF Western Forest Products Inc. #118-1334 Island Highway Campbell River, BC V9W 8C9

Email: TSR@westernforest.com

Regards,

Mike Davis, RPF





February 7, 2017

TR0111T810 Henry Peter Matilpi PO Box 2284 Port Hardy, BC V0N 2P0

Dear Henry,

### Re: TFL 37 Draft Timber Supply Analysis Information Package

TFL 37, held by Western Forest Products Inc. (WFP), covers roughly 160,000 hectares of land in the Nimpkish valley located in the north central portion of Vancouver Island. The process of gaining approval of Management Plan #10 and determination of a new allowable annual cut (AAC) for the TFL is underway. The draft Information Package provides a summary of inputs and assumptions that will be used in preparation of a timber supply analysis that provides information to assist the Chief Forester of BC in determining the AAC for TFL 37.

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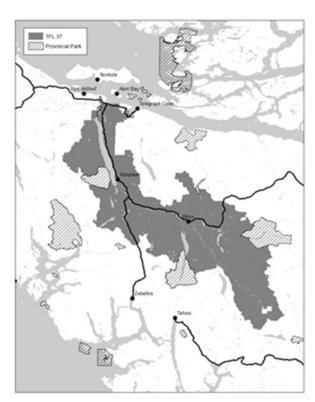
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Attn: Mike Davis, RPF Western Forest Products Inc. #118-1334 Island Highway Campbell River, BC V9W 8C9

Email: TSR@westernforest.com

Regards,

Mike Davis, RPF





February 7, 2017

TR0110T609 Edward Braun 713 Ruby Road Sayward, BC V0P 1R0

### Dear Edward,

# Re: TFL 37 Draft Timber Supply Analysis Information Package

TFL 37, held by Western Forest Products Inc. (WFP), covers roughly 160,000 hectares of land in the Nimpkish valley located in the north central portion of Vancouver Island. The process of gaining approval of Management Plan #10 and determination of a new allowable annual cut (AAC) for the TFL is underway. The draft Information Package provides a summary of inputs and assumptions that will be used in preparation of a timber supply analysis that provides information to assist the Chief Forester of BC in determining the AAC for TFL 37.

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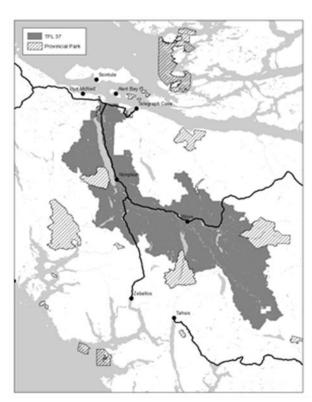
Comments received by April 13, 2017 may result in revisions to the IP. Please write or email comments to:

Attn: Mike Davis, RPF Western Forest Products Inc. #118-1334 Island Highway Campbell River, BC V9W 8C9

Email: TSR@westernforest.com

Regards,

Mike Davis, RPF





February 7, 2017

TR0111T801 William E. Tatton Box 5105 Woss, BC V0N 3P0

Dear William E.,

## Re: TFL 37 Draft Timber Supply Analysis Information Package

TFL 37, held by Western Forest Products Inc. (WFP), covers roughly 160,000 hectares of land in the Nimpkish valley located in the north central portion of Vancouver Island. The process of gaining approval of Management Plan #10 and determination of a new allowable annual cut (AAC) for the TFL is underway. The draft Information Package provides a summary of inputs and assumptions that will be used in preparation of a timber supply analysis that provides information to assist the Chief Forester of BC in determining the AAC for TFL 37.

WFP records indicate that you hold a trapline within the boundaries of TFL 37. If this is not true you can disregard this letter; however, I would appreciate you informing me that you do not hold the trapline indicated above so our records can be updated.

The draft Information Package can be viewed between **February 10**, **2017** and **April 13**, **2017** during normal business hours at the following locations (please call ahead to arrange an appointment to view):

- WFP Englewood Operation office, 5000 Railway Ave, Woss. Ph: (250) 281-2300
- WFP Timberlands office, #118-1334 Island Highway, Campbell River. Ph: (250) 286-3767
- Ministry of Forests, Lands and Natural Resource Operations office, 2217 Mine Road, Port McNeill. Ph: (250) 956-5000

You can also find the draft Information Package and reference maps at: <a href="http://www.westernforest.com/sustainability/environmental-stewardship/planning-and-practices/our-forests/">http://www.westernforest.com/sustainability/environmental-stewardship/planning-and-practices/our-forests/</a>

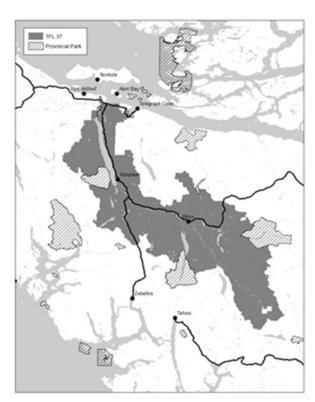
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Attn: Mike Davis, RPF Western Forest Products Inc. #118-1334 Island Highway Campbell River, BC V9W 8C9

Email: TSR@westernforest.com

Regards,

Mike Davis, RPF





February 7, 2017

TR0111T802 Ken Kollman Box 552 Port McNeill, BC V0N 2R0

Dear Ken,

# Re: TFL 37 Draft Timber Supply Analysis Information Package

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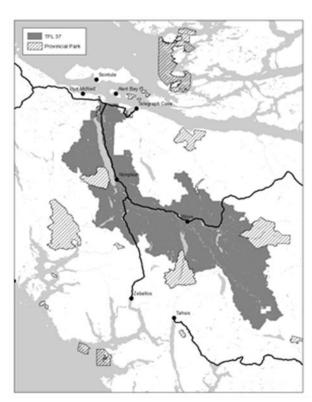
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Attn: Mike Davis, RPF Western Forest Products Inc. #118-1334 Island Highway Campbell River, BC V9W 8C9

Email: TSR@westernforest.com

Regards,

Mike Davis, RPF





February 7, 2017

TR0111T803 Larry Zilkie 1904 Urquhart Ave Courtenay, BC V9N 3K9

Dear Larry,

### Re: TFL 37 Draft Timber Supply Analysis Information Package

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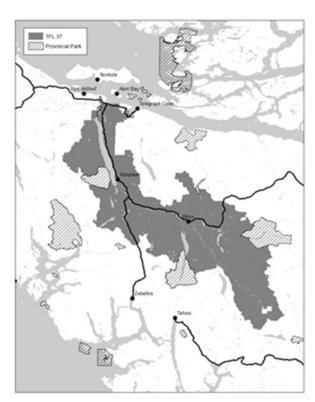
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Attn: Mike Davis, RPF
Western Forest Products Inc.
#118-1334 Island Highway
Campbell River, BC V9W 8C9

Email: TSR@westernforest.com

Regards,

Mike Davis, RPF





February 7, 2017

TR0111T803 Bill Tatton Box 5105 Woss, BC V0N 3P0

Dear Bill,

# Re: TFL 37 Draft Timber Supply Analysis Information Package

TFL 37, held by Western Forest Products Inc. (WFP), covers roughly 160,000 hectares of land in the Nimpkish valley located in the north central portion of Vancouver Island. The process of gaining approval of Management Plan #10 and determination of a new allowable annual cut (AAC) for the TFL is underway. The draft Information Package provides a summary of inputs and assumptions that will be used in preparation of a timber supply analysis that provides information to assist the Chief Forester of BC in determining the AAC for TFL 37.

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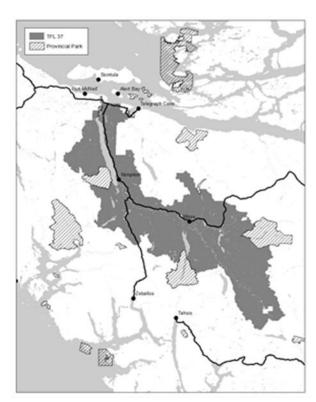
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Attn: Mike Davis, RPF Western Forest Products Inc. #118-1334 Island Highway Campbell River, BC V9W 8C9

Email: TSR@westernforest.com

Regards,

Mike Davis, RPF





February 7, 2017

TR0111T804 James Ramsay Bell Box 5223 Woss, BC V0N 3P0

Dear James,

# Re: TFL 37 Draft Timber Supply Analysis Information Package

TFL 37, held by Western Forest Products Inc. (WFP), covers roughly 160,000 hectares of land in the Nimpkish valley located in the north central portion of Vancouver Island. The process of gaining approval of Management Plan #10 and determination of a new allowable annual cut (AAC) for the TFL is underway. The draft Information Package provides a summary of inputs and assumptions that will be used in preparation of a timber supply analysis that provides information to assist the Chief Forester of BC in determining the AAC for TFL 37.

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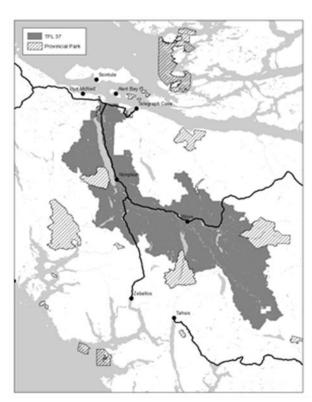
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Attn: Mike Davis, RPF Western Forest Products Inc. #118-1334 Island Highway Campbell River, BC V9W 8C9

Email: TSR@westernforest.com

Regards,

Mike Davis, RPF





February 7, 2017

TR0111T805 Kim Law 504 Hartford Rd Port McNeill, BC V0N 2R0

Dear Kim,

# Re: TFL 37 Draft Timber Supply Analysis Information Package

TFL 37, held by Western Forest Products Inc. (WFP), covers roughly 160,000 hectares of land in the Nimpkish valley located in the north central portion of Vancouver Island. The process of gaining approval of Management Plan #10 and determination of a new allowable annual cut (AAC) for the TFL is underway. The draft Information Package provides a summary of inputs and assumptions that will be used in preparation of a timber supply analysis that provides information to assist the Chief Forester of BC in determining the AAC for TFL 37.

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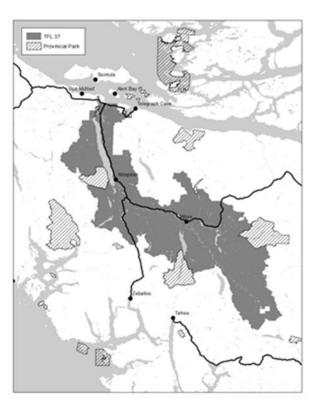
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Attn: Mike Davis, RPF Western Forest Products Inc. #118-1334 Island Highway Campbell River, BC V9W 8C9

Email: TSR@westernforest.com

Regards,

Mike Davis, RPF





February 7, 2017

TR0111T806 Gordon Boyd 6509 Belle Vista Victoria, BC V8Z 6Y4

Dear Gordon.

# Re: TFL 37 Draft Timber Supply Analysis Information Package

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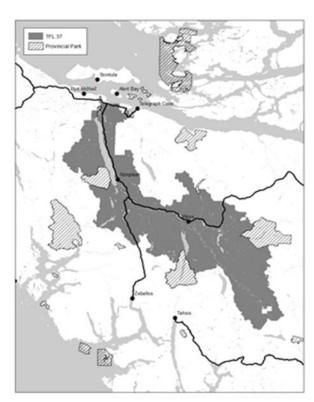
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Email: TSR@westernforest.com

Regards,

Mike Davis, RPF



Wednesday, February 8, 2017 www.northislandgazette.com 19

COMMUNITY ANNOUNCEMENTS

COMMUNITY ANNOUNCEMENTS

LEGALS LEGALS

Land and Water Act:
Notice of Intention to Apply for a Disposition

of Crown Land and Allocation of Water
Take notice that Nootka Marine Adventures Ltd
of Black Creek, BC intends to make application to
the Ministry of Forests, Lands, and Natural Resource
Operations (MFLNRO), West Coast Region for a Licence
of Occupation – Commercial Use situated on Provincial
Crown land located at Newton Cove in the vicinity of

A Water License application has also been submitted for **Enterprise** located on **Sparks Creek** for the quantity of **8.6 m3/day**.

The Land File Number that has been established for this application is 1412410 and the Water File Number is 1003364. Written comments regarding this application should be directed to the Section Head at 142 - 2080 Labieux Rd, Nanaimo, BC, V9T 6J9 or emailed to: AuthorizingAgency.Nanaimo@gov.bc.ca. Comments will be received by MFLNRO until Friday Mar 10, 2017. MFLNRO may not be able to consider comments received after this date. Please visit our website at <a href="http://arfd.gov.bc.ca/ApplicationPosting/index.jsp">http://arfd.gov.bc.ca/ApplicationPosting/index.jsp</a> for more information.

Be advised that any response to this advertisement will be considered part of the public record. For information, contact the FOI Advisor at the Ministry of Forests, Lands and Natural Resource Operations regional office."

LEGALS LEGALS

# Land Act:

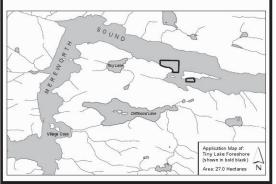
# Notice of Intention to Apply for a Disposition of Crown Land FILE #1414470

Take notice that San Group Inc., a BC Timber Sales Tenure Holder, advertises that we will make application to the Ministry of Forests, Lands and Natural Resource Operations, (North Island – Central Coast District Office in Port McNeill) for a License of Occupation for industrial log handling, skidway, barge ramp, dumping, booming, storage, helicopter water drop and a float / barge camp. The site is situated on Provincial Crown land located in Mereworth Sound (Tiny Lake) and the file number is 1414470.

For more information or to submit written comments, contact Vadim Stavrakov, Program Manager Box 1327 Port McNeill, BC, VON 2RO. Or by email, Vadim.Stavrakov@snrc.ca

Comments may be made for 30 days from **February 8, 2017**. Comments will be received until 4:30 PM March 9, 2017. We may not be able to consider comments received after this date. Comments can also be posted at: <a href="http://www.arfd.gov.bc.ca/ApplicationPosting/index.jsp?PrimaryStatus=pending">http://www.arfd.gov.bc.ca/ApplicationPosting/index.jsp?PrimaryStatus=pending</a> please be sure to cite the Applicant's name and the location of the proposed activity and File Number #1414470 for reference.

Be advised that any response to this advertisement will be considered part of the public record.



# COMMUNITY ANNOUNCEMENTS

COMMUNITY ANNOUNCEMENTS

COMMUNITY ANNOUNCEMENTS

LEGALS

LEGALS

LEGALS

NOTICE OF INTENTION TO APPLY FOR A DISPOSITION OF CROWN LAND

## LAND ACT:

Take notice that the **District of Port Hardy** has applied to the Ministry of Forests, Lands and Natural Resource Operations (FLNRO), West Coast Region for a **License** for the purpose of **Commercial-Commercial A** situated on Provincial Crown Land located in the vicinity of **Port Hardy** known as the 'Seagate Pier' 8500 Granville Street District Lot 2044 PID 010-412-867.

The Lands File Number that has been established for this application is **Crown** Land file # 0074190

Written comments concerning this application should be directed to the Section Head, Ministry of Forests, Lands and Natural Resource Operations at 142-2080 Labieux Rd. Nanaimo, BC V9T 6J9 or emailed to: AuthorizingAgency.Nanaimo@gov.bc.ca

Comments will be received by FLNRO up to **March 19th, 2017**. FLNRO may not be able to consider comments received after this date. Please visit our website: http://www.arfd.gov.bc.ca/ApplicationPosting/index.jsp for more information.

Be advised that any response to this advertisement will be considered part of the public record. For more information, contact the Freedom of Information Advisor at the Ministry of Forests, Lands and Natural Resource Operations office in Nanaimo.



COMMUNITY ANNOUNCEMENTS

**LEGALS** 

COMMUNITY ANNOUNCEMENTS

COMMUNITY ANNOUNCEMENTS

LEGALS

LEGALS

# Tree Farm Licence 37 Management Plan #10 Timber Supply Analysis Assumptions Available for Review

TFL 37, held by Western Forest Products Inc. (WFP), covers roughly 160,000 hectares of land in the Nimpkish valley located in the north central portion of Vancouver Island. The process of gaining approval of Management Plan #10 and determination of a new allowable annual cut (AAC) for the TFL is underway. The draft Information Package provides a summary of inputs and assumptions that will be used in preparation of a timber supply analysis that provides information to assist the Chief Forester of BC in determining the AAC for TFL 37.

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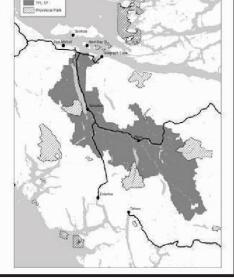
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Please write or email comments to:

TFL 37 Information Package Western Forest Products Inc. #118-1334 Island Highway Campbell River, BC V9W 8C9

Email: TSR@westernforest.com







**GARAGE SALES** 

MULTI Family Indoor Garage Sale St Columba's Church Sat. Feb 11 9:30 AM-2:00 PM 9190 Granville St. Port Hardy (by PH Hospital) Household goods, exercise equipment, furniture & more. INVITE THE WHOLE NEIGHBOURHOOD to your garage sale with a classified ad 1-866-865-4460

to your garage sale with a classified ad **call 1-866-865-4460** 

COMMUNITY ANNOUNCEMENTS

COMMUNITY ANNOUNCEMENTS

LEGALS

LEGALS

# Land Act:

# Notice of Intention to Apply for a Disposition of Crown Land

Take notice that Capacity Forest

Management of Campbell River, BC on behalf
of Kvamua Enterprises Limited Partnership
intends to make application to the Ministry of
Forests, Lands and Natural Resource Operations
(FLNR), North Island – Central Coast District for
a Permit for the purpose of Log Handling, file
#1414469 situated on un-surveyed provincial
crown land covered by water located in Moses
Inlet. These areas will be used for the purpose of
helicopter logging. All sites maybe be used for
the following purposes:

- Camp Tie Up
  - Fuel Storage
  - Log Storage
- Helicopter Water Drop

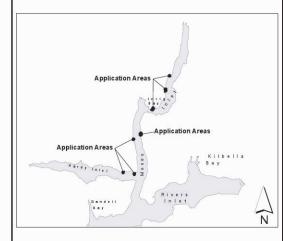
For more information or to make written comments, please contact: Ryan Arsenault of CFM at (250) 287-2120,

RyanArsenault@capfor.ca, Cyndy Grant, MFLNRO, Lands Officer: (250) 956-5039, cyndy.grant@gov.bc.ca.

The review and comment period will\_last 30 days from **February 3**th, **2017**. Comments will be received until **March 3**rd, **2017**. MFLNR office may not be able to consider comments received after this date. Comments can also be posted at: <a href="http://www.arfd.gov.bc.ca/ApplicationPosting/index.jsp?PrimaryStatus=pending">http://www.arfd.gov.bc.ca/ApplicationPosting/index.jsp?PrimaryStatus=pending</a>

Please be sure to cite the Applicant's name and the location of the proposed activity and File Number for reference.

Be advised that any response to this advertisement will be considered part of the public record. For information, contact the Freedom of Information Advisor at FLNR office.



CAMPBELL RIVER MIRROR | FRIDAY, FEBRUARY 10, 2017



GARAGE SALES

CAMPBELL RIVER SOUTH GARAGE SALE GARAGE SALE
Saturday February 11<sup>th</sup>
10:00 a.m. - 2:00 p.m.
Sybil Andrews Cottage
Supporting Grandmother's to
Grandmother's
A bargain Hodge Podge of
Fabric's, Yarns, Notions,
Sewing & Knitting projects

**INVITE THE** WHOLE NEIGH-**BOURHOOD** to your garage sale with a classified ad

# call 1-866-865-4460

EMPLOYMENT/EDUCATION

EMPLOYMENT/EDUCATION

HELP WANTED

HELP WANTED



# **NIGHT AUDITOR**

The Comfort Inn & Suites, Campbell River is looking to hire a Night Auditor. The successful candidate will be responsible for our front desk during the hours of 11:00pm and 7:00am, both weekdays and weekends. The schedule is a rotation of 3 nights on and 4 nights off, then 4 nights on and 3 nights off.

The Night Auditor is a key member of the Guest Services Team, responsible for the overnight operations of the hotel. The right candidate will possess excellent organization skills, telephone manner, computer knowledge, be self-motivated, and be able to work with a wide variety of people and situations. Hotel experience is a benefit, but not necessary.

The successful applicant would be offered a competitive hourly rate and the opportunity of benefits after 3 months.

To apply, please submit your resume to Maria at: admin@comfortinncampbellriver.com or in person at 1351 Shoppers Row, Campbell River, BC

CAREER OPPORTUNITIES

CAREER OPPORTUNITIES



# **HYGIENIST** WANTED

Our busy, friendly, modern office is seeking an experienced full-time Registered Dental Hygienist with great people and clinical skills. The position requires one evening per week but no weekends.

If you enjoy a team oriented office and provide excellent periodontal care, please email your resume to Dr. Chris Dennis by February 20th: dpimplantcentre@gmail.com

# CAREER OPPORTUNITIES

with Black Press (Vancouver Island)

Black Press is Canada's leading private independent newspaper company with more than 170 community, daily and urban newspapers in Canada, Washington State, Hawaii, California and Ohio and has extensive digital and printing operations.

Moderation Team Member (Victoria): We're proud of the family-friendly community we've cultivated and our Moderation team is a key part of this success - it's what sets Used.ca apart. Our Moderation Team Members oversee the communication activity on all Used.ca city sites. You would be responsible for ensuring a safe, spam-free, and fair marketplace for our two million monthly users across Canada and the UK. February 17th, 2017



RENTALS

SENIOR ASSISTED LIVING

**GOLDEN GROVE** CARE FACILITY 24 hour Care

a licensed long-term care home for seniors in beautiful Willow Point, now taking names for waitlist! For more info Call: 250-923-7049

HOME/BUSINESS SERVICES

GARDENING

**RENTALS** 

SUITES, LOWER

CENTRAL CAMPBELL RIVER

Quiet & Spacious 2 bdrm, full bath. W/D, Fridge, Stove, NS/NP. Self Contained Suite \$800.+ utils. Ref's Needed Available March 1st 250-923-1081

HOME/BUSINESS SERVICES

GARDENING

# HYGRO GARDENING SUPPLIES

indoor/outdoor hydroponic gardening large selection of organic fertilizers biological pest control • free setup consultation

www.hygrogardening.com

We GUARANTEE the Best Prices! We will match any deal our competitors put out there!

250-286-0424 Toll Free: 877-686-0424 1791 Tamarac St., Campbell River, BC

FAST, FRIENDLY SERVICE - WE SHIP ANYWHERE!

EMPLOYMENT/EDUCATION

EMPLOYMENT/EDUCATION

CAREER OPPORTUNITIES

CAREER OPPORTUNITIES



# **School District 72** (Campbell River)

School District 72 is seeking applications for the following position:

# Casual Bus Driver

For details on applying for this posting, please check the School District's web site at:

www.sd72.bc.ca.



# **FUEL DELIVERY DRIVER** - CAMPBELL RIVER

Coastal Mountain Fuels Petro-Canada is a Wholesale Fuel Company specializing in the marketing of Petro-Canada commercial fuels and lubricants. We have several branches located throughout Vancouver Island and Southern British Columbia and currently have one permanent full-time opening based out of our Campbell River location: **FUEL DELIVERY DRIVER** 

# The responsibilities of this position include:

- Safe, efficient and productive delivery of fuel with the ability to work all shifts, including nights and week ends. The position requires physically demanding work in challenging terrain and remote locations.
- The ideal candidate will have previous fuel handling experience with a Class 1 licence, and be familiar with the transportation of dangerous goods.

The successful candidate will be a team player with a strong focus on client satisfaction and the capability to operate independently in a safe and efficient manner.

This is a full time permanent position. Hourly wage is \$26.00 to \$29.00 per hour depending on experience plus comprehensive benefit package, including medical, dental, vision, extended health and RRSP contribution. Personal protection equipment provided by Coastal Mountain Fuels.

Please send your cover letter and resume, including driver's abstract and references to: Ron Gertzen and Richard Murphy

1720 Maple St Campbell River BC V9W 3G2 or by email: rgertzen@cmfuels.ca and rmurphy@cmfuels.ca

or fax: (250) 287-7880 Closing Date: Feb 20, 2017 LEGAL NOTICE

LEGALS

LEGAL NOTICE

LEGAL NOTICE

LEGALS

LEGALS

# Land Act:

# NOTICE OF INTENTION TO APPLY FOR DISPOSITION OF CROWN LAND

Take notice that Samuel Anderson from Stuart Island, BC, has applied to the Ministry of Forests, Land and Natural Resource Operations (MFLNRO), Surrey for a Commercial Recreation/Guided Saltwater Recreation Tenure situated on Provincial Crown land located at Big Bay, Range 1, Coast District.

The Lands File Number for this application is 2411793. Comments on this application may be submitted in two ways: 1) Online via the Applications and Reasons for Decision Database website at:

ov.bc.ca/ApplicationPosting/index.jsp

2) By mail to the Senior Land Officer at 200-1048 153rd Street, Surrey, BC V3R 1E1. Comments will be received by the MFLNRO until March 9, 2017. Comments received after this date may not be considered

Be advised that any response to this advertisement will be considered part of the public record. For information, contact Information Access Operations at the Ministry of Technology, Innovation and Citizens Services in Victoria at :

www.gov.bc.ca/citz/iao/.



# Tree Farm Licence 37 Management Plan #10 Timber Supply Analysis Assumptions Available for Review

TFL 37, held by Western Forest Products Inc. (WFP), covers roughly 160,000 hectares of land in the Nimpkish valley located in the north central portion of Vancouver Island. The process of gaining approval of Management Plan #10 and determination of a new allowable annual cut (AAC) for the TFL is underway. The draft Information Package provides a summary of inputs and assumptions that will be used in preparation of a timber supply analysis that provides information to assist the Chief Forester of BC in determining the AAC for TFL 37.

The draft Information Package can be viewed between February 10, 2017 and April 13, 2017 during normal business hours at the following locations (please call ahead to arrange an appointment to view):

- · WFP Englewood Operation office, 5000 Railway Ave, Woss. Ph: (250) 281-2300
- WFP Timberlands office, #118-1334 Island Highway, Campbell River. Ph: (250) 286-3767
- Ministry of Forests, Lands and Natural Resource Operations office, 2217 Mine Road, Port McNeill. Ph: (250) 956-5000

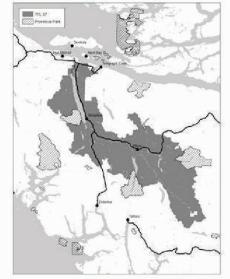
You can also find the draft Information Package and reference maps at: http://www.westernforest.com/sustainability/environmental-stewardship/ planning-and-practices/our-forests/

Please write or email comments

TFL 37 Information Package Western Forest Products Inc. #118-1334 Island Highway Campbell River, BC V9W 8C9

Email: TSR@westernforest.com





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http://sd85-websrv2012.sd85.bc.ca/wp-content/uploads/2015/05/ApplicationForm-CUPESept08.pdf and quote the appropriate posting number(s).

Closing date for applications is 12:00 p.m. on Monday, February 20, 2017.

Your resume and application form should be directed to: John Martin, Secretary Treasurer, School District No. 85 (Vancouver Island North), 6975 Rupert Street, PO Box 90, Port Hardy, B.C. VON 2P0,

Or faxed to: 250-949-8792, or emailed to: jmartin@sd85.bc.ca

# NOTICE OF INTENTION TO APPLY FOR A DISPOSITION OF CROWN LAND

Take notice that the District of Port Hardy has applied to the Ministry of Forests, Lands and Natural Resource Operations (FLNRO), West Coast Region for a License for the purpose of Commercial-Commercial A situated on Provincial Crown Land located in the vicinity of Port Hardy known as the 'Seagate Pier' 8500 Granville Street District Lot 2044 PID 010-412-867.

The Lands File Number that has been established for this application is Crown Land file # 0074190

Written comments concerning this application should be directed to the Section Head, Ministry of Forests, Lands and Natural Resource Operations at 142-2080 Labieux Rd. Nanaimo, BC V9T 6J9 or emailed to: AuthorizingAgency.Nanaimo@

Comments will be received by FLNRO up to March 19th, 2017. FLNRO may not be able to consider comments received after this date. Please visit our website:

http://www.arfd.gov.bc.ca/ApplicationPosting/index.jsp for more information.

Be advised that any response to this advertisement will be considered part of the public record. For more information, contact the Freedom of Information Advisor at the Ministry of Forests, Lands and Natural **Resource Operations** 

office in Nanaimo.



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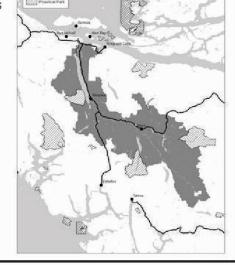
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Please write or email comments

TFL 37 Information Package Western Forest Products Inc. #118-1334 Island Highway Campbell River, BC V9W 8C9

Email: TSR@westernforest.com





# Shelter Worker- Sobering & Assessment Program and Extreme Weather Shelter - Lighthouse Resource Centre

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Sobering The Sobering & Assessment Program & Extreme weather shelter (November - March) is a lowbarrier 6 bed emergency facility (12 beds from November to March) open to street

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assists in ensuring a healthy and safe environment for clients/guests. The incumbent may provide emotional support and crisis intervention.

# QUALIFICATIONS:

Minimum Grade 12 education or equivalent, valid WHIMIS, Food Safe 1, First Aid Certificate, and Non-violent Crisis Intervention Certification.

Grade 7 available for Full-Time, Part-Time, and Casual (hours from 5:30 pm to 7:30 am only Monday -Sunday ).

Start date to be determined.

Submit a cover letter and resume by February 21, 2017, to:

EMAIL: Michael\_Winter@can.salvationarmy.org

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# **Assistant Manager**

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The successful candidate will report to the Harbour Manager and assist in the daily operations of the Port McNeill Harbour and Information Centre.

The position requires full time (40 hours per week) during the summer months (May to Sept), reduced to 32 hours per week in the off season months.

A detailed job description may be picked up at the Port McNeill Harbour and Information Centre, located at 1594 Beach Drive, the Town Office at 1775 Furney Place, or on the Town's website at www.portmcneill.ca

Applications will be accepted until 4:00 p.m. Friday, March 03, 2017 at the Port McNeill Harbour and Information Centre.

Please apply in writing with cover letter and resume to:

Harbour Manager; Pete Nelson-Smith at the Harbour and Information Centre Mail to Box 1389 Port McNeill, BC V0N 2R0 Fax to 250-956-2897

Email to manager@portmcneillharbour.ca

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Noon Hour Supervisor II,

Port Hardy Secondary School, **Eagle View Elementary School,** 

School District No. 85 thanks all applicants for their interest, however, only short-listed candidates will be contacted.

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Please review the full posting and apply at www.marineharvest.ca

This position closes on 6th March, 2017

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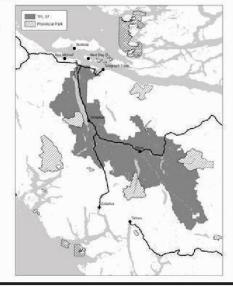
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Email: TSR@westernforest.com



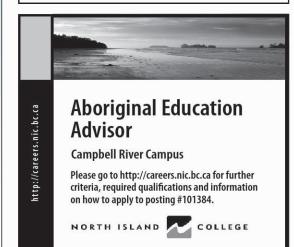


# F/T Payroll Clerk

Lemare Group is seeking a **Fulltime Payroll Clerk** for their Port McNeill Office. The successful candidate will be exposed to all aspects of payroll and processing. To be considered for position you must have strong organization and time management skills, good attention to detail, excellent written and verbal communication, be proficient with MS Office, and possess some basic accounting knowledge. Previous payroll experience is an asset.

Please forward your cover letter with resume Attention: Theresa Beddows: email: tbeddows@ lemare.ca or fax: 250-956-4888.

Lemare thanks all interested, however only those shortlisted will be contacted.



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# **Hygiene Manager**

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# **Paul Griffiths**

544 Springbok Road Campbell River, BC V9W 8A2

250-923-1311 pgriff@shaw.ca

April 13, 2017

Western Forest Products Inc. 118–1334 Island Highway Campbell River, BC V9W 8C9

Email to: *mdavis@westernforest.com* 

dmogensen@westernforest.com

Dear Messrs. Davis and Mogensen:

Subject: Tree Farm Licence 37 Management Plan #10 – Timber Supply Analysis

**Assumptions** 

Thank you for giving me the opportunity to review the inputs and assumptions made for karst in your preparation of a timber supply analysis submission. Your approachability and responsiveness throughout the review period were very much appreciated.

The consideration of karst in your analysis is creditable in my view. The analysis recognizes karst as an important resource value, and potential netdown reductions are estimated based on spatial data from a RISC planning level inventory completed in 2004 for the TFL. As far as I know, this was the last such inventory commissioned in BC by a TFL holder. In my opinion, the RISC planning-level karst inventory constitutes the most reliable available information for taking karst system management constraints into meaningful account at the level of the TFL. It has sufficient currency and detail to reflect the karst occurrences, karst vulnerability potential, and the mapping can be used to delineate allogenic (i.e., contributing non-karst) catchment areas. This should allow for a reasonable estimation of karst management requirements incremental to other timber harvesting constraints.

I took careful notice that your assumptions for karst in TFL 37 had considered compliance with the 2007 karst GAR Order. Your assumptions also considered non-statutory karst management implications – e.g., adherence to the best practices recommended by the government regulatory authority. The non-statutory karst management implications appear to be supported/reinforced by corporate karst guidance (internal) and your asserted corporate policy of using environmental management practices that meet or exceed government standards.

Monitoring the karst management performance and conducting research across TFL 37 with the assistance of qualified karst resource professionals will help to further validate the compliance and conformance factors.

I will look forward to continuing our professional discussions about karst and karst management in TFL 37 over the term of an approved Management Plan.

Sincerely yours,

# **ORIGINAL SIGNED BY**

Paul Griffiths

# Mike Davis

From: Nienaber, Gordon FLNR:EX < Gordon.Nienaber@gov.bc.ca>

**Sent:** April-24-17 4:20 PM

To: Mike Davis

Cc: Mike Landers; Brown, Jim W FLNR:EX; Waines, Andy C FLNR:EX

**Subject:** TFL 37 Information Package Comments

Mike,

Thank-you for a very well written Information Package. I found it well covered all of the essential factors required.

The growth and yield assumptions still need to be review by our model experts and the genetic gains will need to be reviewed by tree improvement staff. In the meantime I can provide you my comments on the modelling assumptions in the Information Package.

### Non-Forest and Physically Operability

- I noticed that the previous analysis removed additional non-forest using TEM I acknowledge that this approach never caught on as a standard methodology for identifying non-forest but did you do any comparisons with the non-forest generated for this analysis? Was equivalent area removed under other factors?
- There was also a previous emphasis on 'blocky talus sites' that are difficult to regenerated are these sites still a concern and addressed elsewhere?
- Similarly, avalanche tracks had their own removal factor the area removed as physically inoperable has increased so can I assume these areas were likely removed as inoperable?

### Riparian

- Table 11 is missing a summation of the area removed due to riparian management areas.
- Table 5 provides the total but it would be nice to see the proportion of area in the various classes.

### **OGMA**

• If the full old forest retention targets are met by OGMA (except for the small shortfall in the CWHmm1) is it necessary to discuss BEO and the possible drawdowns? Or did this still factor into the location and size of OGMAs?

### Wildlife Habitat Areas

• You state that there is uncertainty as to how the IWMS impact will be allocated – is it possible that impact would be allocated outside of the TFL? Do you have an estimate of the current impact of WHA established so far?

### **Economic Operability**

- The discussion of this factor has not changed from the previous analysis but the area removed has substantially decreased – I did not note a similar increase in area removed under a previous factor - was the operability mapping revised?
- A removal for low site was previously made but not carried forward to this analysis was there reasoning to drop this removal?

#### Karst

• Information Package text is fine but I will likely need more information on how the reductions were developed when I prepare the binder.

### Site Productivity

After reading the complicated methods previously used to derive estimates for CWHvm2 and MHmm1, I was
pleased to read your simple solution to use the Site Productivity Layer

• Table 29 still lists alder even though it was net out of the THLB – is it left in for sensitivity analysis (this reason just crossed my mind as I typed this)?

### **Utilization Level**

- How was 121 years selected why not match the existing managed stand definition?
- Can VDYP model a 15cm top?

#### OAF

 Since no alteration to the standard OAF1 value is being made, I would request removing the detailed breakdown of OAF1 on Albert's behalf since this has never truly been official.

# **Shading from Retained Trees**

• I acknowledge this is a difficult concept to input and represent in TIPSY – the Information Package is fine but I would appreciate some sensitivity analyses to explore any uncertainties.

### **Stocking Density**

• I noticed that preamble states stands are historically planted at 1,100 sph but all past eras are modelled at 1,000 sph.

#### **Genetic Gains**

- The previous analysis didn't expect more than 4% for Cw in the future managed yields which conflicts with your statement that planting history shows 7% gains would the previous analysis not have at least projected the historic gains on record?
- The future gains are also much higher I understand that now under management by Western the seed resources have changed but I would still like Tree Improvement staff to review this factor.

#### Non-Recoverable Losses

- Interesting to see this listed as a percent of harvest instead of a fixed volume but it is reasonable when the biggest loss is due windthrow which is linked to harvesting.
- No losses due to snow press and slides were considered?

### VILUP

- The mature+old target was previously modelled at 18-19% for Lower Nimpkish and 34-36% for Upper Nimpkish is 25% an average?
- Why are these targets no longer being modelled by BEC? (I just now noticed the very small difference between mature+old and old areas likely the reason?)

As you can see, since I did not find any gaps in your document, the majority of my concerns regard continuity with the previous analysis. I will continue to work towards completing the review of the yield assumptions and hopefully we can move on to the review of analysis results soon.

Gordon.



Gordon Nienaber, MF, RPF

Forest Analysis and Inventory Branch Ministry of Forests, Lands and Natural Resource Operations

Office: 250.751.7398 Cell: 250.716.6518

## **Mike Davis**

From: Mike Davis

**Sent:** April-27-17 10:54 AM

**To:** Gordon Nienaber (Gordon.Nienaber@gov.bc.ca)

**Subject:** TFL 37 VDYP inputs

**Attachments:** vdyp7\_adjusted\_input.csv; TFL37\_MP10\_param\_125.txt; TFL37\_MP10\_param\_175.txt

Gord,

As discussed, here are the VDYP 7 input and parameter files used for the TFL 37 natural stand yields.

Mike

# Mike Davis, RPF Strategic Analysis Forester

Tel 250.286.4117 Cell 250.720.1710 MDavis@westernforest.com

#### westernforest.com





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## Western Forest Products Inc.

DEFINING A HIGHER STANDARD



May 4, 2017

Gordon Nienaber, MF, RPF Ministry of Forests, Lands and Natural Resource Operations Forest Analysis and Inventory Branch 2100 Labieux Road Nanaimo, BC V9T 6E9

Gordon,

#### Re: TFL 37 Management Plan #10 Information Package Comments

The compliments regarding the TFL 37 Management Plan (MP) #10 Information Package (IP) in your email of April 24, 2017 are appreciated. I endeavored to ensure it was complete and clear for technical reviewers plus stakeholders, First Nations, and general public.

I will provide the TIPSY input files to the model expert as soon as possible. I understand he is away until mid-May. Below are your questions/comments and WFP's response.

#### **FAIB Question / Comment**

Non-Forest and Physically Operability

- I noticed that the previous analysis removed additional non-forest using TEM I acknowledge that this approach never caught on as a standard methodology for identifying non-forest but did you do any comparisons with the non-forest generated for this analysis? Was equivalent area removed under other factors?
- There was also a previous emphasis on 'blocky talus sites' that are difficult to regenerated are these sites still a concern and addressed elsewhere?
- Similarly, avalanche tracks had their own removal factor – the area removed as physically inoperable has increased so can I assume these areas were likely removed as inoperable?

#### **WFP Response**

Yes, when I began researching the assumptions used in MP #9 this was the first time I'd seen TEM data used to identify non-productive area beyond that identified in the forest cover (VRI). Upon consideration of the inputs into the growth and yield models I believe the presence of non-productive inclusions are already addressed:

- For natural stands, VDYP 7 relies upon basal area as a key driver for volume. The basal area of a stand will reflect the presence of non-productive area. Applying a TEM-NP netdown would require adjusting the basal area upward to reflect the basal area on the productive area only.
- For managed stands, TIPSY yields are adjusted by OAF1 that includes an element for non-productive area.

To simplify the process, it is assumed that the VRI attributes and OAF1 adequately address the non-productive inclusions that were included as a netdown in MP #9. We are using our recently acquired LiDAR data to review the extent of gaps in managed stands that have achieved crown closure in order to determine if an OAF1 of 15% is justified. The results of this work will be forwarded as soon as possible.

The talus sites supporting old forest are classified as inoperable so are removed from the THLB via the physical operability netdown. Talus sites that have been harvested in the past are included in the THLB. The majority of the

## Western Forest Products Inc. DEFINING A HIGHER STANDARD™



FAIB Question / Comment	WFP Response
	talus sites are located in the area deleted from TFL 37 and now in the Pacific TSA. Given the relatively minor netdown area no discussion was included in the IP.
	No netdown was applied for avalanche tracks (site group = "AV" in TFL 37 TEM). Analysis post-creation indicates that 87 ha of THLB are found within such TEM polygons, of which 28 ha support stands less than 60 years old indicating they likely have been harvested. FYI – there are 2818 ha of "AV" polygons in the current TFL 37 and 1136 ha in the area deleted from TFL 37 and now in the Pacific TSA.
<ul> <li>Riparian</li> <li>Table 11 is missing a summation of the area removed due to riparian management areas.</li> <li>Table 5 provides the total but it would be nice to see the proportion of area in the various classes.</li> </ul>	The consulting GIS support I had for building the TSR resultant indicated that maintaining the riparian class associated with an individual buffer was not feasible. As such, the TSR resultant does not contain any riparian classifications. In speaking with WFP GIS Analysts I've since learned that maintaining the riparian classification associated with a buffer can be done. If necessary, the breakdown of netdown by riparian classification can be added later.
OGMA  • If the full old forest retention targets are met by OGMA (except for the small shortfall in the CWHmm1) is it necessary to discuss BEO and the possible drawdowns? Or did this still factor into the location and size of OGMAs?	The discussion regarding Low BEO and possible drawdown is provided as background information for readers. The intent is to explain the "rules" within which forest management planning is conducted and how the "rules" are applied within TFL 37.
Wildlife Habitat Areas  You state that there is uncertainty as to how the IWMS impact will be allocated – is it possible that impact would be allocated outside of the TFL? Do you have an estimate of the current impact of WHA established so far?	The spatial distribution of future WHAs for species listed in the FPPR Section 7 notice for the North Island-Central Coast District is unknown; some may be established within TFL 37. The mature THLB impact of established WHAs is indicated in a table found at <a href="http://www.env.gov.bc.ca/cgi-bin/apps/faw/wharesult.cgi?search=forest_region&amp;forest=N_orth+Island+-+Central+Coast&amp;submit2=Search.">http://www.env.gov.bc.ca/cgi-bin/apps/faw/wharesult.cgi?search=forest_region&amp;forest=N_orth+Island+-+Central+Coast&amp;submit2=Search.</a> TFL 37 has numerous WHAs established and proposed within it refer to Tables 14 and 15. The THLB impact of the WHAs is minimized by co-locating OGMAs. The greatest uncertainty regarding managing species at risk is impending provincial implementation plans for Marbled Murrelet and Northern Goshawk.

# Western Forest Products Inc. DEFINING A HIGHER STANDARD™



FAIB Question / Comment	WFP Response
Economic Operability	Some polygons previously removed from the THLB as
The discussion of this factor has not changed from the	uneconomic are now classified as inoperable (physical) -
previous analysis but the area removed has	MP 9 physically inoperable reduction was 15,144 ha of a
substantially decreased – I did not note a similar	larger TFL landbase whereas 18,735 ha in MP 10 in the
increase in area removed under a previous factor - was	reduced TFL.
the operability mapping revised?	
<ul> <li>A removal for low site was previously made but not</li> </ul>	The low sites were not removed from the THLB as the
carried forward to this analysis – was there reasoning to	corresponding future analysis units' yields will reach
drop this removal?	minimum harvest criteria. In essence this will allow these
	sites to be brought into production. There is 396 ha of
	THLB in old stands with < 250 m <sup>3</sup> /ha. If these stands all
	had 250 m <sup>3</sup> /ha the total volume involved is 24,000 m <sup>3</sup> .
	Approximately 38 ha of MP#9 low sites have been
IZ .	harvested since 2006.
Karst	Background assumptions for the karst netdowns can be
Information Package text is fine but I will likely need	provided.
more information on how the reductions were developed	Ma are attempting to use our LiDAD date to identify the
when I prepare the binder.	We are attempting to use our LiDAR data to identify the extent of identifiable karst features and determine the
	validity of the netdowns. The results of this work will be
	forwarded as soon as possible.
Site Productivity	Table 29 lists alder even though alder leading stands are
After reading the complicated methods previously	excluded from the Base Case THLB for two reasons:
used to derive estimates for CWHvm2 and MHmm1, I	these stands will be grown within the timber supply
was pleased to read your simple solution to use the Site	model to contribute to total growing stock, and
Productivity Layer	to be available for a sensitivity analysis that includes
Table 29 still lists alder even though it was net out of	them in the THLB.
the THLB – is it left in for sensitivity analysis (this reason	
just crossed my mind as I typed this)?	
Utilization Level	121 years old was chosen as the transition age from
<ul> <li>How was 121 years selected – why not match the</li> </ul>	immature to mature utilization levels to align with cutting
existing managed stand definition?	permit utilization standards.
<ul> <li>Can VDYP model a 15cm top?</li> </ul>	
	After further reviewing the VDYP documentation it is
	apparent that VDYP only calculates volume to a 10 cm top.
	Table 33 will be updated accordingly. For stands >120
	years old this will slightly overestimate the volume as
	cutting permit utilization for mature stands is a 15 cm top.
OAF	I will remove the breakdown of OAF1 elements from the
Since no alteration to the standard OAF1 value is	Information Package. If our review of LiDAR data warrants
being made, I would request removing the detailed	sensitivity analysis related to OAF1 the elements will be
breakdown of OAF1 on Albert's behalf since this has	included within the associated discussion.
never truly been official.	

## Western Forest Products Inc. DEFINING A HIGHER STANDARD™



	Y V II I
FAIB Question / Comment	WFP Response
Shading from Retained Trees  I acknowledge this is a difficult concept to input and represent in TIPSY – the Information Package is fine but I would appreciate some sensitivity analyses to explore any uncertainties.	Feedback from the Ministry's growth and yield modeling expert will determine if a sensitivity associated with the shading impact of retained trees is necessary.
Stocking Density I noticed that preamble states stands are historically planted at 1,100 sph but all past eras are modelled at 1,000 sph.	Refer to Section 7.3.3.2.1 for an explanation as to why stands established between 1961 and 2000 are modelled at 1,000 sph.
Genetic Gains The previous analysis didn't expect more than 4% for Cw in the future managed yields which conflicts with your statement that planting history shows 7% gains - would the previous analysis not have at least projected the historic gains on record? The future gains are also much higher – I understand that now under management by Western the seed resources have changed but I would still like Tree Improvement staff to review this factor.	The MP#9 yield tables were developed in 2003 (refer to Appendix D of the MP#9 IP). At that time the genetic gain for low elevation Cw was 3% for the next 3 years, 7% for the subsequent 7 years and was expected to reach 10% for the following 10 years. Calculating a time-weighted average for this 20 year period results in an average gain of 7.9%. Why only 4% (with 95% availability) was applied is unknown. The planting history results align well with this weighted average calculation of 7.9%.  The latest species plan for low elevation Cw can be found at <a href="http://www.fgcouncil.bc.ca/SpeciesPlan-SPU02.pdf">http://www.fgcouncil.bc.ca/SpeciesPlan-SPU02.pdf</a> .  Notice that WFP's orchard is forecast to have genetic gain increase from 18% to 22% over the next 20 years.
Non-Recoverable Losses  Interesting to see this listed as a percent of harvest instead of a fixed volume but it is reasonable when the biggest loss is due windthrow which is linked to harvesting.  No losses due to snow press and slides were considered?	A percentage reduction to harvest was chosen to reflect that the majority of non-recoverable loss is associated with windthrow.  Mapped slides are reflected in the forest cover as either non-productive or plantation if determined to still be productive land.  No information gathered indicated snow press is an issue.

## Western Forest Products Inc.

**DEFINING A HIGHER STANDARD**"



#### **FAIB Question / Comment**

#### **VILUP**

- The mature+old target was previously modelled at 18-19% for Lower Nimpkish and 34-36% for Upper Nimpkish – is 25% an average?
- Why are these targets no longer being modelled by BEC? (I just now noticed the very small difference between mature+old and old areas – likely the reason?)

#### WFP Response

The area-weighted average mature+old target from Table 48 of the MP #9 IP is 30%. There is no corporate knowledge as to why the approach used in MP #9 was selected.

VILUP Order objective 1(a) specifies "...in SMZs...the target for mature seral forest should range between one quarter to one third of the forested area of each SMZ..." Footnote 3 associated with this objective states "Mature seral targets will be established through landscape unit planning...".

Objective 3 within the orders establishing the Upper and Lower Nimpkish Landscape Units each specify "...retaining mature and old forests on an area covering at least 25 percent of the total forested area of each Special Management Zone portion located within the Landscape Unit." Hence, the proposal for MP#10 to model a constraint of at least 25% of the productive forest area in mature+old seral stage within each SMZ. Neither VILUP nor the LU Orders specify that this objective is applied at the BEC variant level. These LU Orders can be found at <a href="https://www.for.gov.bc.ca/tasb/slrp/srmp/coast/northisland\_centralcoast/reports/">https://www.for.gov.bc.ca/tasb/slrp/srmp/coast/northisland\_centralcoast/reports/</a>.

Items noted above requiring edits to the Information Package will be summarized in the next version of the IP.

Regards,

Mike Davis, RPF

Strategic Analysis Forester

Western Forest Products Inc.

#### **Mike Davis**

From: Nienaber, Gordon FLNR:EX < Gordon.Nienaber@gov.bc.ca>

**Sent:** May-23-17 9:18 AM

To: Mike Davis

**Cc:** Brown, Jim W FLNR:EX

**Subject:** RE: TFL 37 Information Package Comments

Mike,

I have read through your responses and they appear to have addressed all of my concerns.

The VDYP7 inputs and genetic gains assumptions are currently being reviewed by our experts. Please pass on the TIPSY inputs for review when you are ready.

I will hopefully be able to prepare the acceptance letter this week so we can move on to the analysis stage.

#### Gordon.

**From:** Mike Davis [mailto:MDavis@westernforest.com]

Sent: Thursday, May 4, 2017 3:13 PM

To: Nienaber, Gordon FLNR:EX

Subject: RE: TFL 37 Information Package Comments

Gordon,

Attached are responses to your questions and comments below. Please contact me if you require any further clarification.

Mike

Mike Davis, RPF

Strategic Analysis Forester

Tel 250.286.4117 | Cell 250.720.1710 | MDavis@westernforest.com



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From: Nienaber, Gordon FLNR:EX [mailto:Gordon.Nienaber@gov.bc.ca]

**Sent:** April-24-17 4:20 PM

To: Mike Davis

Cc: Mike Landers; Brown, Jim W FLNR:EX; Waines, Andy C FLNR:EX

Subject: TFL 37 Information Package Comments

Mike,

Thank-you for a very well written Information Package. I found it well covered all of the essential factors required.

The growth and yield assumptions still need to be review by our model experts and the genetic gains will need to be reviewed by tree improvement staff. In the meantime I can provide you my comments on the modelling assumptions in the Information Package.

#### Non-Forest and Physically Operability

- I noticed that the previous analysis removed additional non-forest using TEM I acknowledge that this approach never caught on as a standard methodology for identifying non-forest but did you do any comparisons with the non-forest generated for this analysis? Was equivalent area removed under other factors?
- There was also a previous emphasis on 'blocky talus sites' that are difficult to regenerated are these sites still a concern and addressed elsewhere?
- Similarly, avalanche tracks had their own removal factor the area removed as physically inoperable has increased so can I assume these areas were likely removed as inoperable?

#### Riparian

- Table 11 is missing a summation of the area removed due to riparian management areas.
- Table 5 provides the total but it would be nice to see the proportion of area in the various classes.

#### **OGMA**

• If the full old forest retention targets are met by OGMA (except for the small shortfall in the CWHmm1) is it necessary to discuss BEO and the possible drawdowns? Or did this still factor into the location and size of OGMAs?

#### Wildlife Habitat Areas

• You state that there is uncertainty as to how the IWMS impact will be allocated – is it possible that impact would be allocated outside of the TFL? Do you have an estimate of the current impact of WHA established so far?

#### **Economic Operability**

- The discussion of this factor has not changed from the previous analysis but the area removed has substantially decreased I did not note a similar increase in area removed under a previous factor was the operability mapping revised?
- A removal for low site was previously made but not carried forward to this analysis was there reasoning to drop this removal?

#### Karst

• Information Package text is fine but I will likely need more information on how the reductions were developed when I prepare the binder.

#### Site Productivity

- After reading the complicated methods previously used to derive estimates for CWHvm2 and MHmm1, I
  was pleased to read your simple solution to use the Site Productivity Layer
- Table 29 still lists alder even though it was net out of the THLB is it left in for sensitivity analysis (this reason just crossed my mind as I typed this)?

#### **Utilization Level**

- How was 121 years selected why not match the existing managed stand definition?
- Can VDYP model a 15cm top?

#### OAF

• Since no alteration to the standard OAF1 value is being made, I would request removing the detailed breakdown of OAF1 on Albert's behalf since this has never truly been official.

#### **Shading from Retained Trees**

• I acknowledge this is a difficult concept to input and represent in TIPSY – the Information Package is fine but I would appreciate some sensitivity analyses to explore any uncertainties.

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- The previous analysis didn't expect more than 4% for Cw in the future managed yields which conflicts with your statement that planting history shows 7% gains would the previous analysis not have at least projected the historic gains on record?
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As you can see, since I did not find any gaps in your document, the majority of my concerns regard continuity with the previous analysis. I will continue to work towards completing the review of the yield assumptions and hopefully we can move on to the review of analysis results soon.

Gordon.



Gordon Nienaber, MF, RPF

Forest Analysis and Inventory Branch Ministry of Forests, Lands and Natural Resource Operations

Office: 250.751.7398 Cell: 250.716.6518

#### Mike Davis

From: Mike Davis

**Sent:** May-23-17 11:05 AM

**To:** 'Nienaber, Gordon FLNR:EX'

**Subject:** RE: TFL 37 Information Package Comments

**Attachments:** FutMan\_TIPSY\_Input.dat; TFL37\_MP10\_CurMan.BTP; TFL37\_MP10\_FutMan.BTP;

CurMan\_TIPSY\_Input.dat; CurMan\_YT.xlsx

Gordon,

Thanks for this note.

Attached are my TIPSY input files for you to pass on for review. I've also included a spreadsheet where I did the work to incorporate alder into current managed tables where alder is a component species.

Mike

Mike Davis, RPF

**Strategic Analysis Forester** 

Tel 250.286.4117 | Cell 250.720.1710 | MDavis@westernforest.com



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**Strategic Analysis Forester** 

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Gordon.



#### Gordon Nienaber, MF, RPF

Forest Analysis and Inventory Branch Ministry of Forests, Lands and Natural Resource Operations Office: 250.751.7398 Cell: 250.716.6518

#### Mike Davis

From: Xu, Wenli FLNR:EX <Wenli.Xu@gov.bc.ca>

**Sent:** August-02-17 11:38 AM

To: Mike Davis

Cc:Nienaber, Gordon FLNR:EXSubject:RE: TFL 37 VDYP 7 files

Hi Mike,

I have looked at the unadjusted and adjusted data, parameter files and the output files in different steps. I also conducted some VDYP7 runs use the provided data and got similar results. The adjustment procedures sound reasonable.

Thanks, Wenli

From: Mike Davis [mailto:MDavis@westernforest.com]

Sent: Thursday, July 27, 2017 8:57 AM

To: Xu, Wenli FLNR:EX

Subject: RE: TFL 37 VDYP 7 files

Wenli,

I had to go back to Forest Ecosystem Solutions to get the Step 2 files. I have placed two zip files on your FTP site:

• TFL37\_adj\_vdyp7\_input.zip

TFL37\_vdyp7\_step2\_output.zip

Look in /HTS/external/incoming/Wenli/TFL37\_VDYP.

The "input" zip file also contains the Step 1 and Step 3 files I already forwarded.

Mike

From: Mike Davis

**Sent:** July-26-17 7:50 AM **To:** 'Xu, Wenli FLNR:EX'

Subject: RE: TFL 37 VDYP 7 files

Hi Wenli.

The adjustment ratios are listed in the attached report. I will look for the Step 2 inputs and outputs.

Mike

From: Xu, Wenli FLNR:EX [mailto:Wenli.Xu@gov.bc.ca]

**Sent:** July-25-17 4:55 PM

To: Mike Davis

Subject: RE: TFL 37 VDYP 7 files

Hi Mike,

I called you and left a message.

I have looked at the adjusted and unadjusted data, parameter files and the output files. The adjustment procedures sound reasonable.

One more question is that if you can send me the adjustment ratios for each stratum, and the Step 2 inputs/ outputs.

Thanks, Wenli

Wenli Xu, PhD, RPF Forest Mensurationist Forest Analysis & Inventory Branch Ministry of Forests, Lands and Natural Resource Operations 7th Floor, 727 Fisgard Street, Victoria, BC V8W 9C2

Phone: (250) 387-5598 Fax: (250) 387-5999

Email: Wenli.Xu@gov.bc.ca

From: Mike Davis [mailto:MDavis@westernforest.com]

Sent: Friday, June 30, 2017 12:36 PM

To: Xu, Wenli FLNR:EX Subject: TFL 37 VDYP 7 files

Hi Wenli.

I believe I found what you are looking for. I've placed a zipped database and some VDYP 7 parameter files on your FTP site – look in <a href="mailto:tp.for.gov.bc.ca/HTS/external/incoming/Wenli/TFL37">tp.for.gov.bc.ca/HTS/external/incoming/Wenli/TFL37</a> VDYP

Here are the notes from Forest Ecosystem Solutions that accompanied these files:

The database contains the following tables:

Orig\_FC\_TFL37\_normal – normalization of the inventory (Layer 1 and Layer 2 are on top of each other)
Orig\_FC\_TFL37\_strata – the adjustment population

Vdyp7\_adjusted\_125\_Output – adjusted output, 12.5 cm utilization Vdyp7\_adjusted\_175\_Output – adjusted output, 17.5 cm utilization vdyp7\_adjusted\_input – adjusted VDYP 7 input file

Vdyp7\_unadjusted\_125\_Output – unadjusted output, 12.5 cm utilization Vdyp7\_unadjusted\_125\_Output – unadjusted output, 17.5 cm utilization vdyp7\_unadjusted\_input – unadjusted VDYP 7 input file

The unadjusted input was run for every rank 1 polygon that had a tree species. A few of the stands did not run due to errors and are not in the output. These stands were all young and their height was too low for VDYP to deal with.

The attached parameter files were used to run the VDYP7Console program. Step 1 is for the unadjusted files and Step 3 was for the adjusted files. There is not really much difference between the param files except the location of the input and output data (and the utilization). The VDYP7 input tables in the database were exported to .csv files to run with VDYP7.

The adjustment procedure was:

Step 1 – project the inventory to the year ground plots were measured. Since your inventory is not quite a VRI this step uses 'F' for the inventory type and starts the projection from the inventory projection year. This input file is also suitable to use for generating unadjusted volumes.

Step2 – The age, height, basal area, and density values were adjusted. This file is run from the plot measurement year and uses 'V' for the inventory type (so VDYP uses the adjusted basal area and density). The output of this step (not included) are the attribute adjusted volumes.

Step3 – Adjusted volumes and lorey height were included in the input file, which results in VDYP applying the volume adjustment factors. The output of this step is the final adjusted volumes.

#### Mike Davis, RPF Tenures Forester

Tel 250.286.4117 Cell 250.720.1710 MDavis@westernforest.com

#### westernforest.com





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## Appendix B

**Documents associated with Review of Draft MP and TSA** 

## **Documents associated with Review of Draft MP and TSA**

The following table provides the timeline for these items plus dates of some events associated with this process. Copies of documents follow this table.

DATE	ITEM
September 13, 2017	<ul> <li>Ad run in North Island Gazette</li> <li>Draft MP documents posted to FLNRORD FTP site for FAIB to download</li> <li>Hard copy of draft MP delivered to NICCRD office</li> <li>Notification letters sent to updated trappers list</li> <li>DVD's with draft MP documents mailed to First Nations</li> </ul>
September 14, 2017	<ul> <li>Emails with copy of referral letter sent to First Nation's forestry contacts, highlighting that DVD has been sent and that documents and maps are available on WFP website</li> <li>Deliver DVD's and referral letter to Nanwakolas office</li> </ul>
September 15, 2017	<ul> <li>Ad run in Campbell River Mirror</li> <li>Review period begins</li> </ul>
September 20, 2017	Ad run in North Island Gazette
September 22, 2017	Ad run in Campbell River Mirror
October 10, 2017	WFP sends follow-up emails to First Nations reminding them of review opportunity
October 12, 2017	<ul> <li>WFP and FAIB staff tour two WFP sawmills and discuss analyses     WFP undertook to investigate using LiDAR data to measure timber     supply analysis inputs</li> <li>Hard copy of the draft MP delivered to FAIB staff</li> </ul>
November 14, 2017	Public review period ends
November 16 <sup>7</sup> 2017	FAIB forwards a list of questions from Nanwakolas Council
November 22, 2017	WFP provides response to Nanwakolas Council questions to FAIB

EDUCATION/TRADE SCHOOLS

INTERIOR HEAVY EQUIPMENT SCHOOL Hands-On Tasks. Start Weekly. GPS Training! Funding & Housing Avail! Job Aid! Already a HEO? Cot. contilination proof Get certification proof. Call 1-866-399-3853 or go to: iheschool.com

HELP WANTED

Home Support Worker COTTER'S HOME Inspiration Society is looking for a home support worker for 2 mentally challenged adults. This is a P/T / /FT position that could lead to permanent work. Applicants must be female.

Apply to Box 1175, Port Hardy, BC, V0N 2P0. Contact 250-902-1014

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FINANCIAL SERVICES



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(250)287-8331



Consultation

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GET BACK ON TRACK! Bad credit? Bills? Unemployed? Need Money? We Lend! If you own your own home - you qualify. Pioneer Acceptance Corp. Member BBB.
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**Restaurant Equipment** Massive Auction - 500+ Lots

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EMPLOYMENT/EDUCATION

**CAREER OPPORTUNITIES** 

EMPLOYMENT/EDUCATION

CAREER OPPORTUNITIES

## **AUXILIARY EQUIPMENT**

**OPERATORS** 

Emcon Services Inc, Road and Bridge Maintenance contractor, is looking for Auxiliary Equipment Operators for the current winter season to perform a variety of winter related road maintenance activities including operating snowplows and sanding trucks. Operators are needed for the Comox Valley, Hornby Island, Denman Island, Campbell River, Quadra Island, Cortes Island, Gold River, Port Hardy, Sayward, and Woss area.

#### Qualifications include:

- Valid BC Driver's Licence (minimum Class 3 / air).
- Proven highway trucking experience
- · Experience driving tandem axle vehicles and
- Operating a variety of transmissions
- Pre-employment drug screening

Qualified applicants are invited to submit résumés, along with photocopy of driver's licence, an up-to-date driver's abstract, and references to substantiate driving experience to:

**Emcon Services Inc.** Box 1300 - 3190 Royston Rd Cumberland, BC VOR 1S0 Island@emconservices.ca Fax: 250-336-8892

\*Please specify the area that you would be able to work\*





## **EMPLOYMENT** OPENINGS

Western Forest Products has a number of current openings at our various locations, including:

#### **Campbell River**

- Grapple Yarder Utilityman
- Grapple Yarder Operator
  - Hooktender

### **North Island**

- Heavy Duty Mechanic
- Production Supervisor, Roads
  - Processor Operator
  - Log Loader Operator
    - Driller/Blaster
- Grapple Yarder Hooktender

#### **Gold River**

- Hooktender
- · Log Dump Operator
- Certified Hand Faller

Please visit: www.westernforest.com/careers to view all our current openings and follow the links to apply online.

HELP WANTED

HELP WANTED

#### LEGAL NOTICE

**LEGALS** 

LEGAL NOTICE

**LEGALS** 

## **Tree Farm Licence 37 Draft Management Plan #10 Available for Review**

TFL 37, held by Western Forest Products Inc. (WFP), covers roughly 160,000 hectares of land in the Nimpkish valley located in the north central portion of Vancouver Island. The Management Plan provides a general description of the TFL, a brief history, a list of publicly available planning documents that guide WFP's operations and a timber supply analysis for the TFL. The analysis provides information to assist the Chief Forester of BC in determining the AAC for TFL 37.

The draft Management Plan can be viewed between September 15, 2017 and November 14, 2017 during normal business hours at the following locations (please call ahead to arrange an appointment to view):

- WFP Timberlands office, #118-1334 Island Highway, Campbell River. Ph: (250) 286-3767
- Ministry of Forests, Lands and Natural Resource Operations office, 2217 Mine Road, Port McNeill. Ph: (250) 956-5000

You can also find the draft Management Plan and reference maps at:

http://www.westernforest.com/sustainability/environmentalstewardship/planning-and-practices/our-forests

Please write or email comments to: TFL 37 Management Plan #10

Western Forest Products Inc.

#118-1334 Island Highway Campbell River, BC V9W 8C9

TSR@westernforest.com





#### EMPLOYMENT/EDUCATION

**CAREER OPPORTUNITIES** 

EMPLOYMENT/EDUCATION

CAREER OPPORTUNITIES

## **SKIPPER**



Regular

Regular

Regular

Regular

**Temporary** 

**FULL-TIME YEAR-ROUND POSITION** 

Creative Salmon is a certified organic Chinook salmon aquaculture company based in Tofino, BC.

We are seeking a skipper with minimum Fishing Master IV

This is a **full-time year-round position**. The shift is generally Sunday to Wednesday, 10-hour days. Occasional overtime may be requested.

On-board accommodation is available when on shift.

For more details email hr@creativesalmon.com Interested applicants should send a resume and cover letter (with copies of required certification/tickets) to the above email address by September 22, 2017.

Applications will be assessed to determine a short list of candidates to be interviewed. We appreciate all interest, but only qualified candidates will receive responses.

## School District No. 85 requires the following **CUPE 401 REGULAR and TEMPORARY positions:**

Posting #15A: Noon Hour Supervisor II,

Postina #17A: Noon Hour Supervisor I,

Posting #19: First Nations Language/Culture Worker Alert Bay/Sunset Elementary Schools, Posting #20: Child & Youth Care Worker I.

Posting #21: Education Assistant I, Posting #22: Education Assistant I, **Eagle View Elementary School,** 

Cheslakees Elementary School. Eke Me-Xi Learning Center,

Port Hardy Secondary School, A.J. Elliott Elementary School,

Further information regarding job scope, duties and responsibilities, and qualifications, please go to our website at this link: http://www.sd85.bc.ca/?page\_id=2046

Interested applicants should submit a résumé, transcripts, and an CUPE Application form located at this link: http://sd85-websrv2012.sd85.bc.ca/wp-content/uploads/2015/05/ApplicationForm-CUPESept08.pdf and quote the appropriate posting number(s).

Closing date for applications is 12:00 p.m. on Monday, September 18, 2017.

Please direct your resume and application form to: John Martin, Secretary Treasurer, School District No. 85 (Vancouver Island North), 6975 Rupert Street, PO Box 90, Port Hardy, B.C. VON 2P0,

Or faxed to: 250-949-8792, or emailed to: jmartin@sd85.bc.ca School District No. 85 thanks all applicants for their interest, however, only short-listed candidates will be contacted. MERCHANDISE FOR SALE

MISCELLANEOUS FOR SALE

STEEL BUILDING STEEL BUILDING SALE:
"BLOWOUT SALE:" 20X23
\$5,998. 25X27 \$6,839. 30X33
\$8,984. One End Wall Included. Bonus Drill/Impact Driver
Combo Kit Included. Check Out www.pioneersteel.ca for more prices. Pioneer Steel 1-855-212-7036

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APARTMENT/CONDO

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**LEGAL NOTICE** 

**LEGALS** 

**LEGALS** 



### **APPLICATION FOR PESTICIDE USE**

Pesticide Use Permit (PUP) application #869-0007-17/20 Applicant: Marine Harvest Canada Inc.

Contact: Richard Opala 1334 Island Highway, Suite 124 Campbell River, BC V9W 8C9, (250) 850-3276 or fax (250) 850-3275

of sea lice on aquaculture finfish has been forwarded to the Ministry of Environment for authorization.

topical removal of sea lice from aquaculture finfish.

Paramove 50 will only be used in accordance with the directions as per the product label and the PMRA. Paramove 50 will be administered by either using a well boat or enclosed tarpaulins. Tarpaulin treatments will require fish to be seined and placed into tarpaulin lined confines to contain the required bath volume with product administered as quickly as possible to attain the prescribed concentration. A maximum thirty (30) minute treatment with oxygen monitoring will ensure optimal efficacy. Tarpaulins will be removed after the timed treatment allowing sea water to neutralize the bath. Monitoring will be conducted by fish health staff ensuring treatment success and fish wellbeing. Well boat treatments will require fish to be seined and transferred to a bath pool located aboard a designated vessel. Treatment will be monitored and target a maximum (30) thirty minute dwell time. Fish will then be removed and returned to pens. Treatment water will be neutralized with

Archipelago area, managed by Marine Harvest Canada Inc. Crown Land Lease Ref # 1404681,1408758,1405180,1409707,1408560,1404380,1 403104,1406655,1403328,1404381,1404379, 1405183. The proposed total treatment area will be 32.1 hectares.

InteroxTM ParamoveTM 50 Guarantee: Hydrogen Peroxide 50% For the control of sea lice on salmon in fish farms Registration Number: 31393 Pest Control Products Act

The proposed treatment start date is August 1st 2017. The treatments will be veterinarian prescribed with intermittent use. The proposed duration of use is three years, ending July 31st 2020.

Detailed maps of the specific treatment areas can be examined at Marine Harvest Canada Inc. (address above) or visit marineharvestcanada.com

A person wishing to contribute information about the treatment site for the evaluation of this permit application must send copies of the information to both the applicant at the address above and the administrator under the Integrated Pest Management Act at Ministry of Invironment Coastal Region

10470 - 152 Street, Surrey B. C. V3R 0Y3 within 30 days of this notice.



RENTALS

APARTMENT/CONDO

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Well managed 1 & 2 Bdrm suites Gym & sauna on site Call for availability

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**MCCLURE APT'S** 2 & 3 Bedroom apartments. Competitive prices.
 Call 250-956-3526.

ALL YOU NEED IN PRINT AND ONLINE www.bcclassifieds.com

LEGAL NOTICE

Notice is given that a Pesticide Use Permit application for the control

The pest control product Interox Paramove 50 (active ingredient Hydrogen Peroxide) will be used in the marine environment for the

sea water and released.

The treatment locations are Crown land leases located in The Broughton

#### **Mike Davis**

From: Nienaber, Gordon FLNR:EX <Gordon.Nienaber@gov.bc.ca>

Sent: September-13-17 2:57 PM

**To:** Mike Davis **Subject:** RE: TFL 37

Received the files, thanks. All looks good. Gordon.

From: Mike Davis [mailto:MDavis@westernforest.com]
Sent: Wednesday, September 13, 2017 2:22 PM

To: Nienaber, Gordon FLNR:EX

Subject: RE: TFL 37

I've copied the draft MP document that includes the analysis report and revised information packages as appendices. You'll also see a marked version of the information package that shows the revisions made to the version that was made available for review back in February.

Finally, I put a copy of what the newspaper ads will present.

Let me know if you want/need the reference maps. No changes have been made to them so the February maps still apply.

#### Mike

From: Nienaber, Gordon FLNR:EX [mailto:Gordon.Nienaber@gov.bc.ca]

Sent: September-13-17 2:14 PM

**To:** Mike Davis **Subject:** RE: TFL 37

There was already a directory there for me:

ftp.for.gov.bc.ca/HTS/external/incoming/gnienaber

Thanks.

From: Mike Davis [mailto:MDavis@westernforest.com]
Sent: Wednesday, September 13, 2017 7:45 AM

To: Nienaber, Gordon FLNR:EX

Subject: TFL 37

Gordon,

Production of the TFL 37 Management Plan was delayed due to a server issue at our office. Paul Nuttall will not be delivering a hard copy for you today. I'll provide digital versions of all files later today and get a hard copy delivered later if you want one. The files are too large to email so please provide a location on your FTP site and I will post the files there.

Mike

Mike Davis, RPF

**Tenures Forester** 

Tel 250.286.4117 Cell 250.720.1710 MDavis@westernforest.com

#### westernforest.com





NOTICE OF CONFIDENTIAL TRANSMISSION. This message and any accompanying attachments are intended only for the intended recipient named above and may contain information that is privileged and confidential and protected by copyright. Any dissemination, distribution, copying or action taken in reliance on this email or any accompanying attachments by anyone other than the intended recipient is prohibited. If you are not the intended recipient, please notify us of the error in communication by telephone (604-648-4500) or by return e-mail and destroy all copies of this communication and any accompanying attachments without using or disclosing them. Thank you.

**September 13, 2017** 

Ministry of Forests, Lands, Natural Resource Operations and Rural Development - FAIB 2100 Labieux Rd Nanaimo, BC V9T 6E9

#### ATTN.: Gordon Nienaber, Timber Supply Forester

#### Re: TFL 37 Draft Management Plan #10

Enclosed is a copy of the draft Management Plan (MP) #10 for TFL 37 managed by Western Forest Products Inc.. Also enclosed is a DVD that contains the text and the reference maps (that are intended to be plotted on a page size of 25" by 36"). The maps are the same as those supplied with the draft Information Package back in February 2017. If you do not have the previous copy of the maps and have difficulty plotting the maps and wish to have a paper copy let me know and I will have a set delivered to you

The draft management plan provides a general description of the TFL, a brief history of the TFL, a list of publicly available planning documents that guide WFP's operations on the TFL and a timber supply analysis for the TFL. The timber supply analysis provides information to assist the Chief Forester of BC in determining the allowable annual cut (AAC) for TFL 37.

The draft MP for TFL 37 is available for public review from **September 15**, **2017** until **November 14**, **2017** during normal business hours at the following locations:

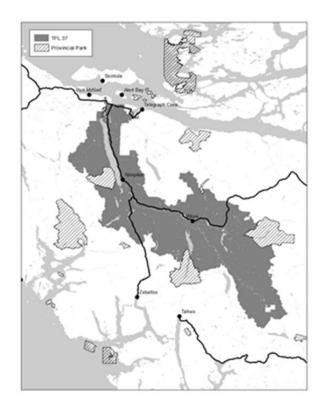
- WFP Timberlands office, #118-1334 Island Highway, Campbell River. Ph: (250) 286-3767
- Ministry of Forests, Lands and Natural Resource Operations office, 2217 Mine Road, Port McNeill. Ph: (250) 956-5000

You can also find the draft Management Plan and reference maps at <a href="http://www.westernforest.com/sustainability/environmental-stewardship/planning-and-practices/our-forests/">http://www.westernforest.com/sustainability/environmental-stewardship/planning-and-practices/our-forests/</a>

The letter sent to the Paul Barolet, Stewardship Officer within the North Island – Central Coast Resource District states to forward comments to you by **November 14, 2017.** I may be contacted at (250) 286-4117 or mdavis@westernforest.com if you have any questions.

Regards,

Mike Davis, RPF Tenures Forester



September 13, 2017

Ministry of Forests, Lands, Natural Resource Operations and Rural Development - NICCRD Box 7000 2217 Mine Road Port McNeill, BC V0N 2R0

#### ATTN .: Paul Barolet, Stewardship Officer

#### Re: TFL 37 Draft Management Plan #10

Enclosed is a copy of the draft Management Plan (MP) #10 for TFL 37 managed by Western Forest Products Inc.. Also enclosed is a DVD that contains the text and the reference maps (that are intended to be plotted on a page size of 25" by 36"). The maps are the same as those supplied with the draft Information Package back in February 2017. If you do not have the previous copy of the maps and have difficulty plotting the maps and wish to have a paper copy let me know and I will have a set delivered to you

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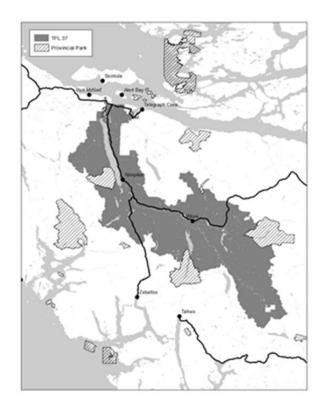
- WFP Timberlands office, #118-1334 Island Highway, Campbell River. Ph: (250) 286-3767
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Comments should be forwarded to Gordon Nienaber at the Ministry of Forests, Land, Natural Resource Operations and Rural Development in Nanaimo by **November 14, 2017.** I may be contacted at (250) 286-4117 or <a href="mailto:mdavis@westernforest.com">mdavis@westernforest.com</a> if you have any questions.

Regards,

Mike Davis, RPF Tenures Forester





September 13, 2017

TR0111T807 Samuel B. Cook Box 85 Alert Bay, BC V0N 1A0

Dear Samuel.

#### Re: TFL 37 Draft Management Plan #10

TFL 37, held by Western Forest Products Inc. (WFP), covers roughly 160,000 hectares of land in the Nimpkish valley located in the north central portion of Vancouver Island. The process of gaining approval of Management Plan #10 and determination of a new allowable annual cut (AAC) for the TFL is underway. The draft Management Plan provides a general description of the TFL, a brief history of the TFL, a list of publicly available planning documents that guide WFP's operations on the TFL and a timber supply analysis for the TFL. The timber supply analysis provides information to assist the Chief Forester of BC in determining the AAC for TFL 37.

WFP records indicate that you hold a trapline within the boundaries of TFL 37. If this is not true you can disregard this letter; however, I would appreciate you informing me that you do not hold the trapline indicated above so our records can be updated.

The draft Management Plan can be viewed between **September 15**, **2017** until **November 14**, **2017** during normal business hours at the following locations (please call ahead to arrange an appointment to view):

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- Ministry of Forests, Lands and Natural Resource Operations office, 2217 Mine Road, Port McNeill. Ph: (250) 956-5000

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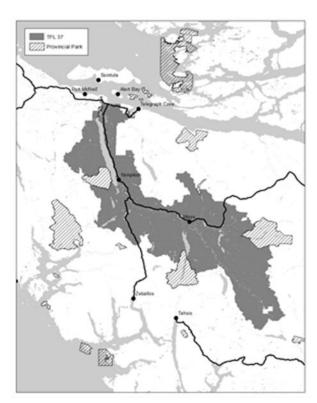
Comments received by **November 14, 2017** may result in revisions to the plan. Please write or email comments to:

Attn: Mike Davis, RPF Western Forest Products Inc. #118-1334 Island Highway Campbell River, BC V9W 8C9

Email: TSR@westernforest.com

Regards,

Mike Davis, RPF





September 13, 2017

TR0110T609 Edward Braun 713 Ruby Road Sayward, BC V0P 1R0

Dear Edward,

#### Re: TFL 37 Draft Management Plan #10

TFL 37, held by Western Forest Products Inc. (WFP), covers roughly 160,000 hectares of land in the Nimpkish valley located in the north central portion of Vancouver Island. The process of gaining approval of Management Plan #10 and determination of a new allowable annual cut (AAC) for the TFL is underway. The draft Management Plan provides a general description of the TFL, a brief history of the TFL, a list of publicly available planning documents that guide WFP's operations on the TFL and a timber supply analysis for the TFL. The timber supply analysis provides information to assist the Chief Forester of BC in determining the AAC for TFL 37.

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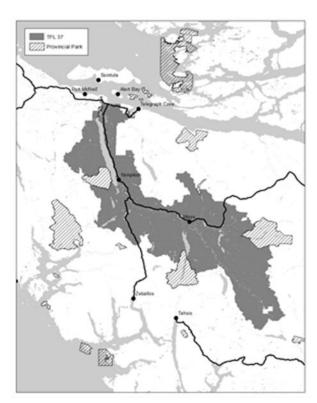
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Attn: Mike Davis, RPF Western Forest Products Inc. #118-1334 Island Highway Campbell River, BC V9W 8C9

Email: TSR@westernforest.com

Regards,

Mike Davis, RPF





September 13, 2017

TR0111T801 William E. Tatton Box 5105 Woss, BC V0N 3P0

Dear William E.,

#### Re: TFL 37 Draft Management Plan #10

TFL 37, held by Western Forest Products Inc. (WFP), covers roughly 160,000 hectares of land in the Nimpkish valley located in the north central portion of Vancouver Island. The process of gaining approval of Management Plan #10 and determination of a new allowable annual cut (AAC) for the TFL is underway. The draft Management Plan provides a general description of the TFL, a brief history of the TFL, a list of publicly available planning documents that guide WFP's operations on the TFL and a timber supply analysis for the TFL. The timber supply analysis provides information to assist the Chief Forester of BC in determining the AAC for TFL 37.

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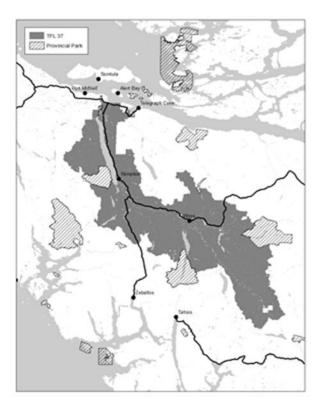
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Attn: Mike Davis, RPF Western Forest Products Inc. #118-1334 Island Highway Campbell River, BC V9W 8C9

Email: TSR@westernforest.com

Regards,

Mike Davis, RPF





September 13, 2017

TR0111T802 Ken Kollman Box 552 Port McNeill, BC V0N 2R0

Dear Ken,

#### Re: TFL 37 Draft Management Plan #10

TFL 37, held by Western Forest Products Inc. (WFP), covers roughly 160,000 hectares of land in the Nimpkish valley located in the north central portion of Vancouver Island. The process of gaining approval of Management Plan #10 and determination of a new allowable annual cut (AAC) for the TFL is underway. The draft Management Plan provides a general description of the TFL, a brief history of the TFL, a list of publicly available planning documents that guide WFP's operations on the TFL and a timber supply analysis for the TFL. The timber supply analysis provides information to assist the Chief Forester of BC in determining the AAC for TFL 37.

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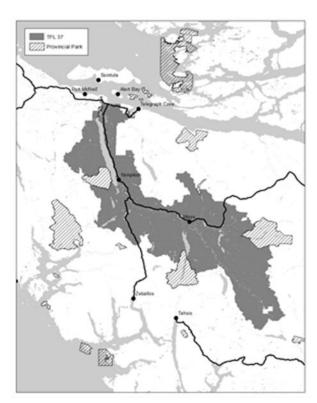
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Attn: Mike Davis, RPF Western Forest Products Inc. #118-1334 Island Highway Campbell River, BC V9W 8C9

Email: TSR@westernforest.com

Regards,

Mike Davis, RPF





September 13, 2017

TR0111T803 Larry Zilkie 1904 Urquhart Ave Courtenay, BC V9N 3K9

Dear Larry,

#### Re: TFL 37 Draft Management Plan #10

TFL 37, held by Western Forest Products Inc. (WFP), covers roughly 160,000 hectares of land in the Nimpkish valley located in the north central portion of Vancouver Island. The process of gaining approval of Management Plan #10 and determination of a new allowable annual cut (AAC) for the TFL is underway. The draft Management Plan provides a general description of the TFL, a brief history of the TFL, a list of publicly available planning documents that guide WFP's operations on the TFL and a timber supply analysis for the TFL. The timber supply analysis provides information to assist the Chief Forester of BC in determining the AAC for TFL 37.

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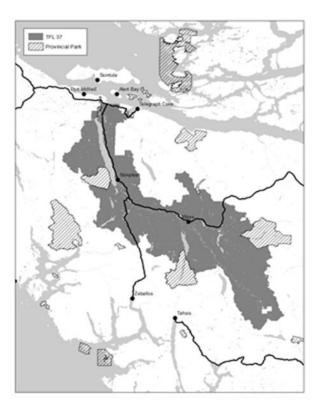
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Attn: Mike Davis, RPF Western Forest Products Inc. #118-1334 Island Highway Campbell River, BC V9W 8C9

Email: TSR@westernforest.com

Regards,

Mike Davis, RPF





September 13, 2017

TR0111T803 Bill Tatton Box 5105 Woss, BC V0N 3P0

Dear Bill,

#### Re: TFL 37 Draft Management Plan #10

TFL 37, held by Western Forest Products Inc. (WFP), covers roughly 160,000 hectares of land in the Nimpkish valley located in the north central portion of Vancouver Island. The process of gaining approval of Management Plan #10 and determination of a new allowable annual cut (AAC) for the TFL is underway. The draft Management Plan provides a general description of the TFL, a brief history of the TFL, a list of publicly available planning documents that guide WFP's operations on the TFL and a timber supply analysis for the TFL. The timber supply analysis provides information to assist the Chief Forester of BC in determining the AAC for TFL 37.

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- Ministry of Forests, Lands and Natural Resource Operations office, 2217 Mine Road, Port McNeill. Ph: (250) 956-5000

You can also find the draft Management Plan and reference maps at: <a href="http://www.westernforest.com/sustainability/environmental-stewardship/planning-and-practices/our-forests/">http://www.westernforest.com/sustainability/environmental-stewardship/planning-and-practices/our-forests/</a>

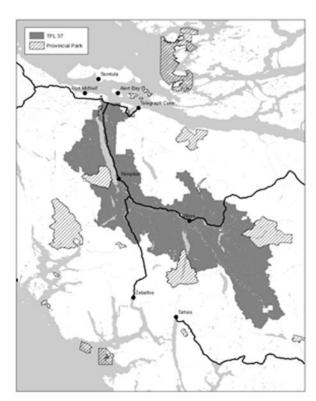
Comments received by **November 14, 2017** may result in revisions to the plan. Please write or email comments to:

Attn: Mike Davis, RPF Western Forest Products Inc. #118-1334 Island Highway Campbell River, BC V9W 8C9

Email: TSR@westernforest.com

Regards,

Mike Davis, RPF





September 13, 2017

TR0111T804 James Ramsay Bell Box 5223 Woss, BC V0N 3P0

Dear James,

#### Re: TFL 37 Draft Management Plan #10

TFL 37, held by Western Forest Products Inc. (WFP), covers roughly 160,000 hectares of land in the Nimpkish valley located in the north central portion of Vancouver Island. The process of gaining approval of Management Plan #10 and determination of a new allowable annual cut (AAC) for the TFL is underway. The draft Management Plan provides a general description of the TFL, a brief history of the TFL, a list of publicly available planning documents that guide WFP's operations on the TFL and a timber supply analysis for the TFL. The timber supply analysis provides information to assist the Chief Forester of BC in determining the AAC for TFL 37.

WFP records indicate that you hold a trapline within the boundaries of TFL 37. If this is not true you can disregard this letter; however, I would appreciate you informing me that you do not hold the trapline indicated above so our records can be updated.

The draft Management Plan can be viewed between **September 15**, **2017** until **November 14**, **2017** during normal business hours at the following locations (please call ahead to arrange an appointment to view):

- WFP Timberlands office, #118-1334 Island Highway, Campbell River. Ph: (250) 286-3767
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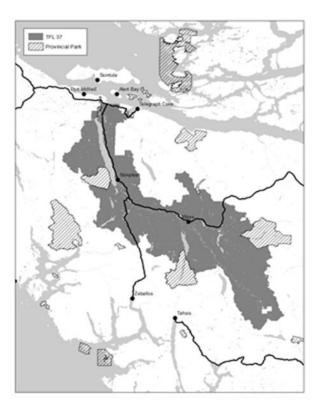
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Attn: Mike Davis, RPF Western Forest Products Inc. #118-1334 Island Highway Campbell River, BC V9W 8C9

Email: TSR@westernforest.com

Regards,

Mike Davis, RPF





September 13, 2017

TR0111T805 Kim Law 504 Hartford Rd Port McNeill, BC V0N 2R0

Dear Kim,

#### Re: TFL 37 Draft Management Plan #10

TFL 37, held by Western Forest Products Inc. (WFP), covers roughly 160,000 hectares of land in the Nimpkish valley located in the north central portion of Vancouver Island. The process of gaining approval of Management Plan #10 and determination of a new allowable annual cut (AAC) for the TFL is underway. The draft Management Plan provides a general description of the TFL, a brief history of the TFL, a list of publicly available planning documents that guide WFP's operations on the TFL and a timber supply analysis for the TFL. The timber supply analysis provides information to assist the Chief Forester of BC in determining the AAC for TFL 37.

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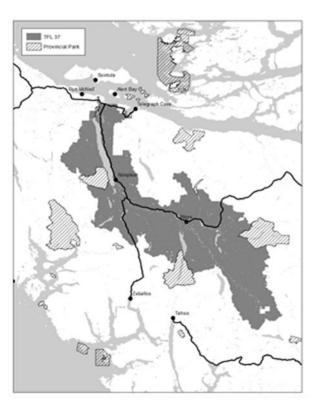
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Attn: Mike Davis, RPF Western Forest Products Inc. #118-1334 Island Highway Campbell River, BC V9W 8C9

Email: TSR@westernforest.com

Regards,

Mike Davis, RPF





September 13, 2017

TR0111T806 Gordon Boyd 6509 Belle Vista Victoria, BC V8Z 6Y4

Dear Gordon.

#### Re: TFL 37 Draft Management Plan #10

TFL 37, held by Western Forest Products Inc. (WFP), covers roughly 160,000 hectares of land in the Nimpkish valley located in the north central portion of Vancouver Island. The process of gaining approval of Management Plan #10 and determination of a new allowable annual cut (AAC) for the TFL is underway. The draft Management Plan provides a general description of the TFL, a brief history of the TFL, a list of publicly available planning documents that guide WFP's operations on the TFL and a timber supply analysis for the TFL. The timber supply analysis provides information to assist the Chief Forester of BC in determining the AAC for TFL 37.

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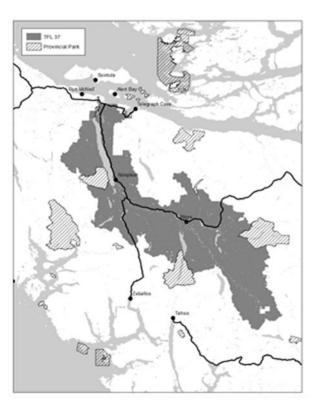
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Attn: Mike Davis, RPF Western Forest Products Inc. #118-1334 Island Highway Campbell River, BC V9W 8C9

Email: TSR@westernforest.com

Regards,

Mike Davis, RPF





September 13, 2017

Kwakiutl First Nation Box 1440 Port Hardy, BC V0N 2P0

ATTN.: Chief Councillor Ross Hunt Jr.

Re: TFL 37 Draft Management Plan #10

Enclosed is a copy (on DVD) of the draft Management Plan #10 for TFL 37 managed by Western Forest Products Inc. This referral is the second stage in the process towards determination of the allowable annual cut (AAC) for TFL 37. The first stage was the referral of the draft Information Package back in February of this year. The Information Package provided a summary of inputs and assumptions to be used in preparation of a timber supply analysis for the TFL. That analysis is now complete and is included as part of this draft Management Plan.

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The enclosed DVD also contains a digital copy of a set of reference maps which are the same as those supplied with the draft Information Package in February 2017. If you do not have the previous copy of the maps and have difficulty plotting the maps (they are intended to be plotted on a page size of 25" by 36") and wish to have a paper copy let me know and I will have a set delivered to you.

During this period the draft Management Plan is also being made available for review by the public at the following locations:

- WFP Timberlands office, #118-1334 Island Highway, Campbell River. Ph: (250) 286-3767
- Ministry of Forests, Lands and Natural Resource Operations office, 2217 Mine Road, Port McNeill. Ph: (250) 956-5000

Please review the enclosed information and provide comments or concerns. Comments received by **November 14, 2017** will be considered in any revisions to the plan. All comments received are forwarded to the Chief Forester for review prior to the AAC determination being made.

I can be reached at (250) 286-4117 if you have any questions or would like to arrange a meeting to discuss the draft Management Plan in detail.

Write or email comments to:

Attn: Mike Davis, RPF Western Forest Products Inc. #118-1334 Island Highway Campbell River, BC V9W 8C9

Email: mdavis@westernforest.com

Regards,

Mike Davis, RPF Tenures Forester

Western Forest Products Inc.

pc: Tom Child - Kwakiutl First Nation

J. Garrick – FLNRO H. Robertson - WFP



September 13, 2017

Mowachat-Muchalaht First Nation PO Box 459 Gold River, BC V0P 1G0

**ATTN.: Hereditary Chief Mike Maguinaa** 

Re: TFL 37 Draft Management Plan #10

Enclosed is a copy (on DVD) of the draft Management Plan #10 for TFL 37 managed by Western Forest Products Inc. This referral is the second stage in the process towards determination of the allowable annual cut (AAC) for TFL 37. The first stage was the referral of the draft Information Package back in February of this year. The Information Package provided a summary of inputs and assumptions to be used in preparation of a timber supply analysis for the TFL. That analysis is now complete and is included as part of this draft Management Plan.

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I can be reached at (250) 286-4117 if you have any questions or would like to arrange a meeting to discuss the draft Management Plan in detail.

Write or email comments to:

Attn: Mike Davis, RPF Western Forest Products Inc. #118-1334 Island Highway Campbell River, BC V9W 8C9

Email: mdavis@westernforest.com

Regards,

Mike Davis, RPF Tenures Forester

Western Forest Products Inc.

pc: Wayne Lord - Mowachat/Muchalaht First Nation

J. Garrick – FLNRO H. Robertson - WFP



September 13, 2017

'Namgis First Nation Box 210 Alert Bay, BC V0N 1A0

ATTN.: Chief Councillor Don Svanvik

Re: TFL 37 Draft Management Plan #10

Enclosed is a copy of the draft Management Plan #10 for TFL 37 managed by Western Forest Products Inc. This referral is the second stage in the process towards determination of the allowable annual cut (AAC) for TFL 37. The first stage was the referral of the draft Information Package back in February of this year. The Information Package provided a summary of inputs and assumptions to be used in preparation of a timber supply analysis for the TFL. That analysis is now complete and is included as part of this draft Management Plan.

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Please review the enclosed information and provide comments or concerns. Comments received by **November 14, 2017** will be considered in any revisions to the plan. All comments received are forwarded to the Chief Forester for review prior to the AAC determination being made.

I can be reached at (250) 286-4117 if you have any questions or would like to arrange a meeting to discuss the draft Management Plan in detail, building on the information that has been shared at 'Namgis/WFP meetings of February 7, 2017 and July 10, 2017.

Write or email comments to:

Attn: Mike Davis, RPF Western Forest Products Inc. #118-1334 Island Highway Campbell River, BC V9W 8C9

Email: mdavis@westernforest.com

Regards,

Mike Davis, RPF Tenures Forester

Western Forest Products Inc.

pc: Rachel Dalton, Natural Resources Director, 'Namgis First Nation

J. Garrick – FLNRO

H. Robertson - WFP



File: T-37-04-10

September 13, 2017

Nanwakolas Council 1441 16th Ave Campbell River, BC V9W 2E4

### ATTN.: Referrals Manager Art Wilson

Re: TFL 37 Draft Management Plan #10

Enclosed are six copies (on DVD) of the draft Management Plan #10 for TFL 37 managed by Western Forest Products Inc. Six copies are provided for you to be able to forward a copy to the applicable Nanwakolas Council member nations. If more copies are required please contact me.

This referral is the second stage in the process towards determination of the allowable annual cut (AAC) for TFL 37. The first stage was the referral of the draft Information Package back in February of this year. The Information Package provided a summary of inputs and assumptions to be used in preparation of a timber supply analysis for the TFL. That analysis is now complete and is included as part of this draft Management Plan.

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I can be reached at (250) 286-4117 if you have any questions or would like to arrange a meeting to discuss the draft Management Plan in detail.

Write or email comments to:

Attn: Mike Davis, RPF Western Forest Products Inc. #118-1334 Island Highway Campbell River, BC V9W 8C9

Email: mdavis@westernforest.com

Regards,

Mike Davis, RPF Tenures Forester

Western Forest Products Inc.

pc: J. Benner - Nanwakolas

J. Garrick – FLNRO

H. Robertson - WFP



File: T-37-04-10

September 13, 2017

Quatsino First Nation Box 100 305 Quattishe Rd Coal Harbour, BC V0N 1K0

ATTN.: Chief Councillor James Nelson

Re: TFL 37 Draft Management Plan #10

Enclosed is a copy (on DVD) of the draft Management Plan #10 for TFL 37 managed by Western Forest Products Inc. This referral is the second stage in the process towards determination of the allowable annual cut (AAC) for TFL 37. The first stage was the referral of the draft Information Package back in February of this year. The Information Package provided a summary of inputs and assumptions to be used in preparation of a timber supply analysis for the TFL. That analysis is now complete and is included as part of this draft Management Plan.

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I can be reached at (250) 286-4117 if you have any questions or would like to arrange a meeting to discuss the draft Management Plan in detail.

Write or email comments to:

Attn: Mike Davis, RPF Western Forest Products Inc. #118-1334 Island Highway Campbell River, BC V9W 8C9

Email: mdavis@westernforest.com

Regards,

Mike Davis, RPF Tenures Forester

Western Forest Products Inc.

pc: Charles Sheard, Forestry Coordinator, Quatsino First Nation

J. Garrick – FLNRO H. Robertson - WFP

From: Mike Davis

Sent: September-14-17 5:05 PM
To: 'Tom Child@kwakiutl.bc.ca'

Cc: Garrick, Jessica FLNR:EX; Gordon Nienaber (Gordon.Nienaber@gov.bc.ca); Hamish

Robertson

**Subject:** TFL 37 Draft Management Plan # 10 Referral

**Attachments:** Kwakiutl\_FN\_referrral\_20170913.pdf

### Good afternoon Tom.

Draft Management Plan #10 for TFL 37 is being made available for review and comment from Friday September 15<sup>th</sup> until Tuesday November 14<sup>th</sup>. A package has been sent to your office to the attention of Chief Councillor Hunt. Due to unforeseen circumstances production was delayed and the package will arrive early next week. Attached is your copy of the referral letter.

In the meantime, as of Friday morning the document can be downloaded from <a href="http://www.westernforest.com/sustainability/environmental-stewardship/planning-and-practices/our-forests/">http://www.westernforest.com/sustainability/environmental-stewardship/planning-and-practices/our-forests/</a>

Please contact me with any questions or to arrange a meeting to discuss the Management Plan and associated timber supply analysis.

Regards,

### Mike Davis, RPF

### **Tenures Forester**

Tel 250.286.4117 Cell 250.720.1710 MDavis@westernforest.com

### westernforest.com





From: Mike Davis

**Sent:** September-14-17 5:05 PM **To:** 'publicworks@yuquot.ca'

**Cc:** 'chief.assistant@yuquot.ca'; Garrick, Jessica FLNR:EX; Gordon Nienaber

(Gordon.Nienaber@gov.bc.ca); Hamish Robertson

**Subject:** TFL 37 Draft Management Plan # 10 Referral **Attachments:** Mowa Much FN referral 20170913.pdf

### Good afternoon Wayne.

Draft Management Plan #10 for TFL 37 is being made available for review and comment from Friday September 15<sup>th</sup> until Tuesday November 14<sup>th</sup>. A package has been sent to your office to the attention of Chief Maquinna. Due to unforeseen circumstances production was delayed and the package will arrive early next week. Attached is your copy of the referral letter.

In the meantime, as of Friday morning the document can be downloaded from <a href="http://www.westernforest.com/sustainability/environmental-stewardship/planning-and-practices/our-forests/">http://www.westernforest.com/sustainability/environmental-stewardship/planning-and-practices/our-forests/</a>

Please contact me with any questions or to arrange a meeting to discuss the Management Plan and associated timber supply analysis.

Regards,

# Mike Davis, RPF Tenures Forester

Tel 250.286.4117 Cell 250.720.1710

MDavis@westernforest.com

### westernforest.com





From: Mike Davis

Sent: September-14-17 5:05 PM

**To:** 'Rachel Dalton'

**Cc:** Garrick, Jessica FLNR:EX; Gordon Nienaber (Gordon.Nienaber@gov.bc.ca); Hamish

Robertson

**Subject:** TFL 37 Draft Management Plan # 10 Referral

**Attachments:** Namgis\_FN\_referrral\_20170913.pdf

### Good afternoon Rachel.

Draft Management Plan #10 for TFL 37 is being made available for review and comment from Friday September 15<sup>th</sup> until Tuesday November 14<sup>th</sup>. A package has been sent to your office to the attention of Chief Councillor Svanvik. Due to unforeseen circumstances production was delayed and the package will arrive early next week. Attached is your copy of the referral letter.

In the meantime, as of Friday morning the document can be downloaded from <a href="http://www.westernforest.com/sustainability/environmental-stewardship/planning-and-practices/our-forests/">http://www.westernforest.com/sustainability/environmental-stewardship/planning-and-practices/our-forests/</a>

Please contact me with any questions or to arrange a meeting to discuss the Management Plan and associated timber supply analysis.

Regards,

### Mike Davis, RPF

### **Tenures Forester**

Tel 250.286.4117 Cell 250.720.1710 MDavis@westernforest.com

### westernforest.com





From: Mike Davis

Sent: September-14-17 1:53 PM

To: ArtWilson (ArtWilson@nanwakolas.com)
Subject: TFL 37 Management Plan #10 Referral

Art,

I dropped off an envelope with a referral letter and 6 DVD copies of the Draft Management Plan #10 for TFL 37. I was told you're in a meeting all afternoon.

You can expect a formal consultation package from the province soon for this as well.

Give me a call if you have any questions.

Regards,

### Mike Davis, RPF

**Tenures Forester** 

Tel 250.286.4117 Cell 250.720.1710 MDavis@westernforest.com

### westernforest.com





From: Mike Davis

**Sent:** September-14-17 5:05 PM **To:** 'forestry@quatsinofn.ca'

**Cc:** Garrick, Jessica FLNR:EX; Gordon Nienaber (Gordon.Nienaber@gov.bc.ca); Hamish

Robertson

**Subject:** TFL 37 Draft Management Plan # 10 Referral

**Attachments:** Quatsino\_FN\_referrral\_20170913.pdf

### Good afternoon Charles.

Draft Management Plan #10 for TFL 37 is being made available for review and comment from Friday September 15<sup>th</sup> until Tuesday November 14<sup>th</sup>. A package has been sent to your office to the attention of Chief Councillor Nelson. Due to unforeseen circumstances production was delayed and the package will arrive early next week. Attached is your copy of the referral letter.

In the meantime, as of Friday morning the document can be downloaded from <a href="http://www.westernforest.com/sustainability/environmental-stewardship/planning-and-practices/our-forests/">http://www.westernforest.com/sustainability/environmental-stewardship/planning-and-practices/our-forests/</a>

Please contact me with any questions or to arrange a meeting to discuss the Management Plan and associated timber supply analysis.

Regards,

### Mike Davis, RPF

### **Tenures Forester**

Tel 250.286.4117 Cell 250.720.1710 MDavis@westernforest.com

### westernforest.com





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TRINITY

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145 Simms Road,

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**MORNING SERIVICE &** 

SUNDAY SCHOOL

10:00 am

For more information

www.trinity-pres.com

Rev. John Green

### COMMUNITY ANNOUNCEMENTS

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## Notice Is Hereby

AA & Jubilee Storage is giv-ing notice to the following AA storage units:

#100 - Andrew Morgan-Jackson #204 - Elizabeth Byers

And to the following Jubilee

#1/34 #4 - Megan Classen #5

Contact Royal LePage Advance Realty Ltd., Property Mgmt. Dept. by September 30, 2017 or the items will be sold for the fees owing to AA

Call 250-286-3293 for more info

**PERSONALS** 

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**CAREER OPPORTUNITIES** 

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Needed to run small Motel in Parksville BC. Non-Smoking, no pets, good health, fulle, live-in position. Fax 250-586-1634 or

kiir27@hotmail.com

### EDUCATION/TRADE SCHOOLS

**AUTO BODY COURSE** for hobbyist & do-it-yourself.

One month course \$300. + tax.Tuesdays &Thursdays 6:30-8:30 pm Contact Larry

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See the following merchants for details.

Contact, Sign up & Pay TYEE MARINE 250-287-2641 250-334-2942 **GUN SMOKE GRANLUND FIREARMS** 250-286-9996

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COMMUNITY ANNOUNCEMENTS

**LEGALS** 

### EMPLOYMENT/EDUCATION

EDUCATION/TRADE SCHOOLS

INTERIOR HEAVY EQUIPMENT SCHOOL Hands-On Tasks, Start Weekly. GPS Training! Funding & Housing Avail! Job Aid! Already a HEO? Get certification proof. Call 1-866-399-3853 or go to: iheschool.com

HELP WANTED

### CAB DRIVERS

Night drivers wanted 4-5 nights per week including weekends. Call Bee-Line Taxi 250.287.8383 or email: bltaxi@shaw.ca

### Part / Full Time **Hair Stylist**

Cheries Hair Salon Is looking for a part time / full time qualified hairstylist Please drop Resume: 220 Dogwood Street Campbell River B.C. or call Louise: 250-203-0094

COMMUNITY ANNOUNCEMENTS

**LEGALS** 

### **Tree Farm Licence 37 Draft Management Plan #10 Available for Review**

TFL 37, held by Western Forest Products Inc. (WFP), covers roughly 160,000 hectares of land in the Nimpkish valley located in the north central portion of Vancouver Island. The Management Plan provides a general description of the TFL, a brief history, a list of publicly available planning documents that guide WFP's operations and a timber supply analysis for the TFL. The analysis provides information to assist the Chief Forester of BC in determining the AAC for TFL 37.

The draft Management Plan can be viewed between September 15, 2017 and November 14, 2017 during normal business hours at the following locations (please call ahead to arrange an appointment to view):

- WFP Timberlands office, #118-1334 Island Highway, Campbell River. Ph: (250) 286-3767
- Ministry of Forests, Lands and Natural Resource Operations office, 2217 Mine Road, Port McNeill. Ph: (250) 956-5000

You can also find the draft Management Plan and reference maps at:

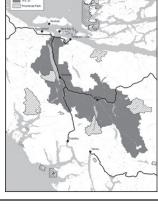
http://www.westernforest.com/sustainability/environmentalstewardship/planning-and-practices/our-forests

Please write or email comments to: TFL 37 Management Plan #10

Products Inc. #118-1334 Island Highway Campbell River, BC V9W 8C9

TSR@westernforest.com





### EMPLOYMENT/EDUCATION

PROFESSIONAL MANAGEMENT

## Hair Stylist

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EMPLOYMENT/EDUCATION

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EMPLOYMENT/EDUCATION

CAREER OPPORTUNITIES

## **CAREER OPPORTUNITIES**

with Black Press (Vancouver Island)

Black Press is Canada's leading private independent newspaper company with more than 170 community, daily and urban newspapers in Canada, Washington State, Hawaii, California and Ohio and has extensive digital and printing operations.

Graphic Artist (Nanaimo): The Nanaimo News Bulletin is looking for a high energy, focused, enthusiastic person for this position. The candidate must have the ability to multi-task, follow ad layouts and work in a fast-paced deadline driven environment. If you have experience in newspaper production preferably with InDesign, Photoshop and Illustrator in a Mac environment we would like to hear from you. The position is for 5 days a week. The chosen candidate must be comfortable in thinking on the go and working to deadlines.

### Social Media Squad (Northern Vancouver Island

): One position for the Social Media Squad in northern Vancouver Island is available within Black Press, Canada's largest private, independent newspaper company, with more than 150 community, daily and urban newspapers and websites in B.C., Alberta and the U.S.

The job is permanent and part-time, based in Campbell River/ Courtenay/Comox, and working with Black Press media in that region and reporting to the Vancouver Island Digital Editor. A vehicle and valid B.C. driver's licence is required.

Multi-Media Journalist (Nanaimo): The Nanaimo News Bulletin has an opening for a full-time, digital-first, permanent Multi-Media Journalist.

Candidates will have outstanding and diverse writing abilities, specifically suited for both online and print. The successful applicant for this entry-level position will be a key contributor to our websites and social media engagement

**Circulation Coordinator (Victoria):** Black Press Community News Media is looking for an energetic and customer friendly individual for its Victoria Circulation Department. The right candidate must have excellent communication and organizational skills. Your attention to detail and ability to work with minimum supervision sets you apart from other applicants.



For more information on these vacancies and other regions throughout B.C. visit

blackpress.ca/careers



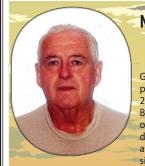
Known The Love of Christ" Sundays @ 10am

2215 Campbell River Road Senior pastors

Barry & Nancy Kaardal www.crvineyard.ca 250-286-3372

Sunday School begins @ 10:30 am





### Neidrauer, Glen 1951 ~ 2017

passed peacefully on August 20th, 2017 at home in Courtenay, British Columbia at the age of 65 years old with his 2 daughters; Loretta Egan and Dianna DeGrasse, 2 sisters; Lynne and Kathleen,

and brother-in-law; Wayne by his side.

Glen is survived by his wife Margaret, 2 daughters; Loretta and Dianna, and 4 grandsons; Dayland, Branden, Michael,

A Celebration of Glen's Life will be held on October 14th, 2017 at 2:00 p.m. at Aaron House Christian Fellowship, 2946 Kilpatrick Ave, Courtenay, BC.

In lieu of flowers, donations can be made in Glen's memory to the Red Cross or the Head Injury Society of



**Funeral Services** 250 338 4463 www.tonefffunerals.com

LEGAL NOTICE

**LEGALS** 

"where your family comes first"

**Tree Farm Licence 37** 

**Draft Management Plan #10** 

Available for Review

TFL 37, held by Western Forest Products Inc. (WFP), covers roughly

160,000 hectares of land in the Nimpkish valley located in the north

central portion of Vancouver Island. The Management Plan provides a general description of the TFL, a brief history, a list of publicly available planning documents that guide WFP's operations and a timber supply

analysis for the TFL. The analysis provides information to assist the Chief

The draft Management Plan can be viewed between September 15, 2017 and November 14, 2017 during normal business hours at the

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Ministry of Forests, Lands and Natural Resource Operations

Forester of BC in determining the AAC for TFL 37.

River. Ph: (250) 286-3767

stewardship/planning-and-practices/our-forests

Ph: (250) 956-5000

Please write or email comments to:

TFL 37 Management Plan #10

Western Forest

V9W 8C9

Fmail:

office, 2217 Mine Road, Port McNeill.

http://www.westernforest.com/sustainability/environmental

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LEGAL NOTICE

**LEGALS** 

### COMMUNITY ANNOUNCEMENTS

### **PERSONALS**

ALCOHOLICS ANONYMOUS
Port Hardy meets every
Wednesday & Saturday at the
Upper Island Public Health
Unit on Gray Street at 8pm.
Sundays at the Salvation Army Lighthouse, 8635 Granville St. at 7pm. Contact Ed at 250-230-9655

MAKE A Connection. Real People, Flirty Chat Call FREE! 250-220-1300 or 1-800-210-1010. www.livelinks.com 18+0

### EMPLOYMENT/EDUCATION

ACCOUNTING/ BOOKKEEPING

# BOOKKEEPER BOURKEPER 6 month contract. The North Island Community Forest is looking for a P/T person to manage our accounts payable and receivables, monthly data entry & general administrative duties. The administrative duties. The successful candidate will have experience and access

to an accounting program such as Sage.

FMI or send resume to Ione Brown at ibhecate @gmail.com or call: 250-902-9604

### **CAREER OPPORTUNITIES**

MEDICAL TRANSCRIPTION! In-demand career! Employers have work-at-home positions available. Get online training you need from an employer-trusted program. Visit: Care-erStep.ca/MT or 1-855-768-2369 to cetar training for works. 3362 to start training for your work-at-home career today!

### EDUCATION/TRADE SCHOOLS

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Job Aid! Already a HEO?
Get certification proof.
Call 1-866-399-3853 or go to: iheschool.com

### HELP WANTED

Home Support Worker COTTER'S HOME Inspira-tion Society is looking for a home support worker for 2 mentally challenged adults. This is a P/T / /FT position that could lead to permanent work. Applicants must be female.

Apply to Box 1175, Port Hardy, BC, V0N 2P0. Contact 250-902-1014

### EMPLOYMENT/EDUCATION

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PLACES OF WORSHIP

### COMMUNITY ANNOUNCEMENTS

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PLACES OF WORSHIP

# North Island Church Services

### PORT HARDY BAPTIST CHURCH

Corner of Trustee & Highland Morning Service 11:00am Plus regular family activities Office: 250-949-6844 www.porthardybaptistchurch.ca

### NORTH ISLAND CATHOLIC CHURCHES

Sunday Masses St. Mary's 430 Chapel St., Port McNeill: 9:00am St. Bonaventure 4750 Byng Rd., Port Hardy: 11:00am St. Theresa's corner of Nigei St. and Marine Dr., Port Alice: Saturdays 5:00pm Alert Bay: 65 Hemlock St., 2nd & 4th: Saturdays 10:00am

### LIGHTHOUSE RESOURCE CENTRE

• Healing Circles • Bible Studies Spiritual Care Weekly AA Groups (8635 Granville St. Port Hardy) 250-949-8125

### FULL GOSPEL CHURCH

2540 Catala Place Port McNeill (across from Firehall) Sunday 10:30am - Morning Worship Church Office 250-956-4741 Pastor Stan Rukin Visitors always welcome www.ptmcfullgospel.org

### PORT MCNEILL BAPTIST CHURCH

2501 Mine Road Sunday 9:45am (Sept-June) - Sunday School 11:00am - Worship Service 7:00pm - Evening Fellowship Youth Group Wed - 7:00pm Children's Programs & Adult Bible Studies are scheduled throughout the year. For information contact Pastor Dave Purdy 250-956-4737

### SEVENTH-DAY ADVENTIST CHURCH 4680 Byng Rd. Port Hardy

Pastor C. Okumu Lomudak ADVENTIST okumuyaya@yahoo.ca 250-949-7584 "Everyone Welcome" Saturday Services 9:30am - Bible Study groups 10:45am - Worship/Praise service Wednesday @ 7:00pm - Prayer meeting Follow us on Facebook Avalon Adventist Christian Academy Offering Christian Education 250-949-8243

### ST. JOHN GUALBERT UNITED ANGLICAN CHURCH

250-956-3533 Email: gualbert@uniserve.com Please call for worship times All Welcome 175 Cedar Street. Port McNeill

### GWA'SALA-'NAKWAXDA'XW SEVENTH-DAY ADVENTIST **CHURCH**

at entrance to Tsulquate Village (8898 Park Dr) Saturday/Sabbath 10:00am-Sabbath School 11:15am-Worship Service 250-949-7377

### ST. JOHN'S ANGLICAN UNITED CHURCHES

4:00 pm Sunday service Everyone welcome http://www.stcolumbaporthardy.ca



# ST. COLUMBA AND

### Products Inc. #118-1334 Island Highway Rev. Alastair Hunting Campbell River, BC

Office: 250-949-6247 St. Columba 9190 Granville St., Port Hardy 10:30 am Sunday school & worship St. John's corner of Nigei St. & Marine Dr. Port Alice



TSR@westernforest.com

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EMPLOYMENT/EDUCATION EMPLOYMENT/EDUCATION

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**FULL-TIME YEAR-ROUND POSITION** 

We are seeking a skipper with minimum Fishing Master IV

may be requested.

On-board accommodation is available when on shift.

For more details email hr@creativesalmon.com

Applications will be assessed to determine a short list of

EMPLOYMENT/EDUCATION

CAREER OPPORTUNITIES

E. Oakley & Company has an immediate opening for an experienced bookkeeper. The successful candidate should be willing to learn, be a team player, be able to work quarterly deadlines, have excellent time management skills.

industries, payroll, government remittances, preparation and review of personal income tax returns. Experience with Sage 50 Accounting is an asset. Competitive salary will be offered

> Please email resume with cover letter to: e.oakley@telus.net.

### **EXPERIENCED BOOKKEEPER**

**HIRING IMMEDIATELY!** 

Operators to support the Campbell River Golf &

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. Mini Hoes

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be organized and be able to multi task.

with an opportunity for a bonus incentive arrangement.

Only those considered will be contacted. No phone calls please

independently, work well under pressure to meet monthly/ Duties will include full cycle bookkeeping for a variety of

### YOUTH AND CHILD CARE WORKER REQUIRED **Zeballos Elementary Secondary School**

School District 84 (Vancouver Island West) requires a Youth and Child Care Worker, effective immediately while students are in regular attendance. This position has a flexible schedule averaging five hours per day, adjusted as per the School Calendar. The wage rate is \$24.54 per hour. Details are available at www.sd84.bc.ca,

'Employment Opportunities'.

Deadline to apply: 4 pm, September 22, 2017.

COMMUNITY ANNOUNCEMENTS

COMMUNITY ANNOUNCEMENTS

**LEGALS** 

**LEGALS** 

### Tree Farm Licence 37 **Draft Management Plan #10** Available for Review

TFL 37, held by Western Forest Products Inc. (WFP), covers roughly 160.000 hectares of land in the Nimpkish valley located in the north central portion of Vancouver Island. The Management Plan provides a general description of the TFL, a brief history, a list of publicly available planning documents that guide WFP's operations and a timber supply analysis for the TFL. The analysis provides information to assist the Chief Forester of BC in determining the AAC for TFL 37.

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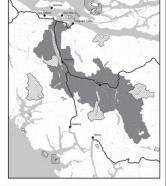
http://www.westernforest.com/sustainability/environmentalstewardship/planning-and-practices/our-forests

Please write or email comments to: TFL 37 Management Plan #10

Products Inc.

#118-1334 Island Highway Campbell River, BC V9W 8C9

Email: TSR@westernforest.com



**SKIPPER** 

**Campbell River Mirror** 

Creative Salmon is a certified organic Chinook salmon aquaculture company based in Tofino, BC.

ticket to operate our harvest vessel.

This is a **full-time year-round position**. The shift is generally Sunday to Wednesday, 10-hour days. Occasional overtime

Interested applicants should send a resume and cover letter (with copies of required certification/tickets) to the above email address by September 22, 2017.

candidates to be interviewed. We appreciate all interest, but only qualified candidates will receive responses.

# CAREER OPPORTUNITIES

with Black Press (Vancouver Island)

Black Press is Canada's leading private independent newspaper company with more than 170 community, daily and urban newspapers in Canada, Washington State, Hawaii, California and Ohio and has extensive digital and printing operations.

Graphic Artist (Nanaimo): The Nanaimo News Bulletin is looking for a high energy, focused, enthusiastic person for this position. The candidate must have the ability to multi-task. follow ad layouts and work in a fast-paced deadline driven environment. If you have experience in newspaper production preferably with InDesign, Photoshop and Illustrator in a Mac environment we would like to hear from you. The position is for 5 days a week. The chosen candidate must be comfortable in thinking on the go and working to deadlines.

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Circulation Coordinator (Victoria): Black Press Community News Media is looking for an energetic and customer friendly individual for its Victoria Circulation Department. The right candidate must have excellent communication and organizational skills. Your attention to detail and ability to work with minimum supervision sets you apart from other applicants.

**Production Worker (Ladysmith):** Ladysmith Press is hiring Production Workers for their continually expanding collating department.

This is a general labour position that requires frequent lifting up to 10 kg and involves the handling of newspapers and advertising supplements.

The Campbell River Mirror has an exciting opportunity for a Community Media Sales Consultant that will be focused

on digital and print sales. The successful candidate will be comfortable with both digital and print media and will be responsible for selling mobile, run of site, SEO, programmatic, websites, print campaigns and special sections within our

mainly focusing on classified and editorial pagination at our Campbell River division.

record with InDesign and Adobe, while also very quick to learn industry specific software. If you pride yourself on your commitment to quality work and excellent time manage skills, coupled with your ability to problem solve effectively and work under a tight deadline driven environment, we would love to hear from you.

Press and its growing group of newspapers is looking to fill a part-time position to possible full-time in our Creative Services ampbell River division.

record with InDesign, Photoshop and Illustrator. If you pride yourself on your commitment to quality work and excellent time management skills, coupled with your ability to problem solve effectively and work under a tight deadline driven environment, we would love to hear from you.

Saanich News. Working collaboratively with key stake holders including the Publisher, Editor and sales team, you'll work on diverse projects including newspaper layout and design, building ad campaigns, creating compelling sales and

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tpeterscampbellriver.com

Rev. Phil Zimmerman

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Senior pastors

Barry & Nancy Kaardal

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250-286-3372

Sunday School

begins @ 10:30 am

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Multi Media Sales Representative (Campbell River):

**Classified Paginator Full Time (Campbell River):** Black Press and its growing group of newspapers is looking to fill a full time position in our Creative Services department

The position requires an individual who has a proven track

Creative Designer Part-Time (Campbell River): Black department mainly focusing on advertising design at our

The position requires an individual who has a proven track

**Creative Designer (Saanich):** In this full-time opportunity you will guide our production and creative efforts at the marketing material and much more.

For more information on these vacancies and other regions throughout B.C. visit:

From: Mike Davis

Sent: October-06-17 1:47 PM
To: 'Tom Child@kwakiutl.bc.ca'

**Cc:** Garrick, Jessica FLNR:EX; Gordon Nienaber (Gordon.Nienaber@gov.bc.ca); Hamish

Robertson

**Subject:** RE: TFL 37 Draft Management Plan # 10 Referral

### Good afternoon Tom.

This is a reminder that the TFL 37 Management Plan #10 review period is underway. I understand Jessica Garrick of the North Island-Central Coast Resource District has forwarded a consultation package as well.

Contact me if you have any questions or would like to arrange a meeting to review the Management Plan materials, including the associated timber supply analysis.

### Regards,

### Mike Davis, RPF Tenures Forester

Tel 250.286.4117 | Cell 250.720.1710 | MDavis@westernforest.com



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From: Mike Davis

**Sent:** September-14-17 5:05 PM **To:** 'Tom Child@kwakiutl.bc.ca'

Cc: Garrick, Jessica FLNR:EX; Gordon Nienaber (Gordon.Nienaber@gov.bc.ca); Hamish Robertson

Subject: TFL 37 Draft Management Plan # 10 Referral

### Good afternoon Tom.

Draft Management Plan #10 for TFL 37 is being made available for review and comment from Friday September 15<sup>th</sup> until Tuesday November 14<sup>th</sup>. A package has been sent to your office to the attention of Chief Councillor Hunt. Due to unforeseen circumstances production was delayed and the package will arrive early next week. Attached is your copy of the referral letter.

In the meantime, as of Friday morning the document can be downloaded from <a href="http://www.westernforest.com/sustainability/environmental-stewardship/planning-and-practices/our-forests/">http://www.westernforest.com/sustainability/environmental-stewardship/planning-and-practices/our-forests/</a>

Please contact me with any questions or to arrange a meeting to discuss the Management Plan and associated timber supply analysis.

Regards,

Mike Davis, RPF Tenures Forester

Tel 250.286.4117 Cell 250.720.1710

### westernforest.com





From: Mike Davis

Sent: October-06-17 1:48 PM

To: 'publicworks@yuquot.ca'

Cc: 'chief.assistant@yuquot.ca'; Garrick, Jessica FLNR:EX; Gordon Nienaber

 $(Gordon. Nienaber@gov.bc.ca); \ Hamish \ Robertson$ 

**Subject:** RE: TFL 37 Draft Management Plan # 10 Referral

Good afternoon Wayne.

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Contact me if you have any questions or would like to arrange a meeting to review the Management Plan materials, including the associated timber supply analysis.

Regards,

Mike Davis, RPF Tenures Forester

Tel 250.286.4117 | Cell 250.720.1710 | MDavis@westernforest.com



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Robertson

**Subject:** TFL 37 Draft Management Plan # 10 Referral

Good afternoon Wayne.

Draft Management Plan #10 for TFL 37 is being made available for review and comment from Friday September 15<sup>th</sup> until Tuesday November 14<sup>th</sup>. A package has been sent to your office to the attention of Chief Maquinna. Due to unforeseen circumstances production was delayed and the package will arrive early next week. Attached is your copy of the referral letter.

In the meantime, as of Friday morning the document can be downloaded from <a href="http://www.westernforest.com/sustainability/environmental-stewardship/planning-and-practices/our-forests/">http://www.westernforest.com/sustainability/environmental-stewardship/planning-and-practices/our-forests/</a>

Please contact me with any questions or to arrange a meeting to discuss the Management Plan and associated timber supply analysis.

Regards,

Mike Davis, RPF Tenures Forester

# Tel 250.286.4117 Cell 250.720.1710 MDavis@westernforest.com

### westernforest.com





From: Mike Davis

**Sent:** October-06-17 1:47 PM

To: 'Rachel Dalton'

**Cc:** Garrick, Jessica FLNR:EX; Gordon Nienaber (Gordon.Nienaber@gov.bc.ca); Hamish

Robertson

**Subject:** RE: TFL 37 Draft Management Plan # 10 Referral

### Good afternoon Rachel.

This is a reminder that the TFL 37 Management Plan #10 review period is underway. I understand Jessica Garrick of the North Island-Central Coast Resource District has forwarded a consultation package as well.

Contact me if you have any questions or would like to arrange a meeting to review the Management Plan materials, including the associated timber supply analysis.

Regards,

### Mike Davis, RPF Tenures Forester

Tel 250.286.4117 | Cell 250.720.1710 | MDavis@westernforest.com



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From: Mike Davis

Sent: September-14-17 5:05 PM

To: 'Rachel Dalton'

Cc: Garrick, Jessica FLNR:EX; Gordon Nienaber (Gordon.Nienaber@gov.bc.ca); Hamish Robertson

Subject: TFL 37 Draft Management Plan # 10 Referral

### Good afternoon Rachel.

Draft Management Plan #10 for TFL 37 is being made available for review and comment from Friday September 15<sup>th</sup> until Tuesday November 14<sup>th</sup>. A package has been sent to your office to the attention of Chief Councillor Svanvik. Due to unforeseen circumstances production was delayed and the package will arrive early next week. Attached is your copy of the referral letter.

In the meantime, as of Friday morning the document can be downloaded from <a href="http://www.westernforest.com/sustainability/environmental-stewardship/planning-and-practices/our-forests/">http://www.westernforest.com/sustainability/environmental-stewardship/planning-and-practices/our-forests/</a>

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Regards,

Mike Davis, RPF Tenures Forester

# Tel 250.286.4117 Cell 250.720.1710 MDavis@westernforest.com

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From: Mike Davis

**Sent:** October-06-17 1:43 PM

To:ArtWilson (ArtWilson@nanwakolas.com)Cc:Garrick, Jessica FLNR:EX; Hamish RobertsonSubject:RE: TFL 37 Management Plan #10 Referral

### Good afternoon Art.

This is a reminder that the TFL 37 Management Plan #10 review period is underway. I understand Nanwakolas has received a consultation package from Jessica Garrick of the North Island-Central Coast Resource District as well.

Contact me if you have any questions or would like to arrange a meeting to review the Management Plan materials, including the associated timber supply analysis.

Regards,

Mike Davis, RPF Tenures Forester

Tel 250.286.4117 | Cell 250.720.1710 | MDavis@westernforest.com



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From: Mike Davis

**Sent:** September-14-17 1:53 PM

**To:** ArtWilson (<u>ArtWilson@nanwakolas.com</u>) **Subject:** TFL 37 Management Plan #10 Referral

Art,

I dropped off an envelope with a referral letter and 6 DVD copies of the Draft Management Plan #10 for TFL 37. I was told you're in a meeting all afternoon.

You can expect a formal consultation package from the province soon for this as well.

Give me a call if you have any questions.

Regards,

Mike Davis, RPF

**Tenures Forester** 

Tel 250.286.4117 Cell 250.720.1710 MDavis@westernforest.com

westernforest.com





From: Mike Davis

**Sent:** October-06-17 1:48 PM **To:** 'forestry@quatsinofn.ca'

Cc: Garrick, Jessica FLNR:EX; Gordon Nienaber (Gordon.Nienaber@gov.bc.ca); Hamish

Robertson

**Subject:** RE: TFL 37 Draft Management Plan # 10 Referral

Good afternoon Charles.

This is a reminder that the TFL 37 Management Plan #10 review period is underway. I understand Jessica Garrick of the North Island-Central Coast Resource District has forwarded a consultation package as well.

Contact me if you have any questions or would like to arrange a meeting to review the Management Plan materials, including the associated timber supply analysis.

Regards,

Mike Davis, RPF
Tenures Forester

Tel 250.286.4117 | Cell 250.720.1710 | MDavis@westernforest.com



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From: Mike Davis

**Sent:** September-14-17 5:05 PM **To:** 'forestry@quatsinofn.ca'

Cc: Garrick, Jessica FLNR:EX; Gordon Nienaber (Gordon.Nienaber@gov.bc.ca); Hamish Robertson

Subject: TFL 37 Draft Management Plan # 10 Referral

Good afternoon Charles.

Draft Management Plan #10 for TFL 37 is being made available for review and comment from Friday September 15<sup>th</sup> until Tuesday November 14<sup>th</sup>. A package has been sent to your office to the attention of Chief Councillor Nelson. Due to unforeseen circumstances production was delayed and the package will arrive early next week. Attached is your copy of the referral letter.

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Please contact me with any questions or to arrange a meeting to discuss the Management Plan and associated timber supply analysis.

Regards,

Mike Davis, RPF

**Tenures Forester** 

### westernforest.com





# TFL 37 LIDAR ANALYSES

October 12, 2017







Western Forest Products Inc.

DEFINING A HIGHER STANDARD™

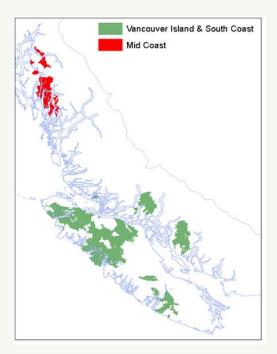


## WHY ARE WE HERE TODAY?

- » Opportunity for:
  - » WFP to meet Decision-maker and vice-versa
  - » Understanding of WFP's tenures
  - » WFP to summarize some business strategies as background for approach to planning
  - » Seeing what WFP does with a portion of its log supply
  - » Discussing WFP's LiDAR acquisition program
  - » Reviewing TFL 37 "Case Study" for applying LiDAR in TSR process

October 12, 2017

# WFP'S LIDAR PROGRAM



Van Isle / South Coast – 1,250,000ha (acquisition completed)

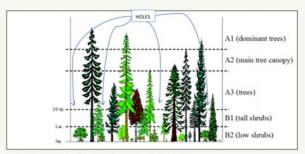
GBR North – 250,000ha (in progress, likely to end up around 70% complete, remainder next year)

Total = 1,500,000ha

**Latest LiDAR Acquisition Program started in 2016** 

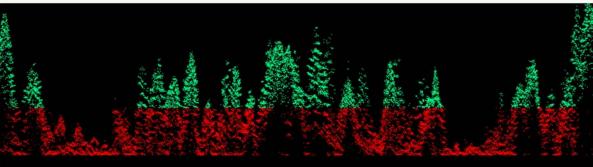


# OAF1 BACKGROUND



Adapted from Figure 7.8 in VRI Ground Sampling Procedures Version 5.4, March 2017





# ASSUMPTIONS USED IN OAF1 DEVELOPMENT

Inventory samples from unmanaged stands in BC produced about 65 to 85 % of the volume found in research plots. This information led to the decision to adopt 85 % for operational yields in managed forests in BC. It was based on inventory level mapping of non-productive land with a minimum polygon size of approximately **2ha**...

More precise local information was rarely available or applied at that time. Little effort was made to identify the agents that contributed to the reduction, or the myriad of other factors that can affect yield in the operational environment, particularly as stands approach maturity.



THIS IS EXACTLY WHAT LIDAR HAS NOW DONE!

TIPSY 4.3 Help - OAF's in TASS (1985-1991)

.



## OAF 1A

- » OAF 1a Portion of OAF 1 not influenced by management
- » Small non-productive areas incapable of supporting tree growth, or 'holes', must be netted out of the productive land base. The best way to approach this element is to decide how much of your productive land is incapable of growing trees.
- » The magnitude of an OAF 1a will reflect the level of information you have. If you have a Silviculture Prescription (SP) for the stand, then non-productive areas will be mapped at a higher resolution than for a TFL or TSA inventory. The OAF 1a reduction for 'Holes' would be smaller for a stand with an SP than for one without.



LiDAR is more detailed than an SP and stands reviewed reflect stand development through time.

TIPSY 4.3 Help 5



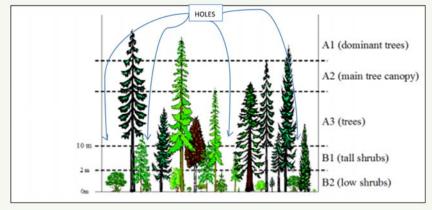
# ASSUMPTIONS USED IN OAF1 DEVELOPMENT

Element Assumption Use OAF if:

Holes All land is productive.

Areas of thin soil, rock outcrops or swamps exist, but aren't large enough to be netted out of a conventional inventory, or during a Silviculture Prescription.

LiDAR review identified all "holes" where no tree cover >= 10m tall.



Adapted from Figure 7.8 in VRI Ground Sampling Procedures Version 5.4, March 2017

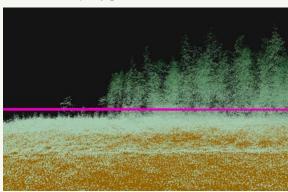
**TIPSY 4.3 Help & VRI Ground Sampling Procedures** 

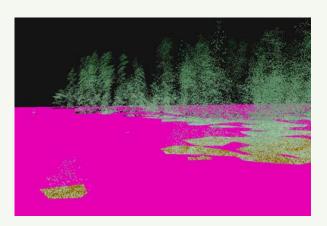
6



# OAF1 ANALYSIS USING LIDAR DATA

» Create polygons where CHM < 10m







### OAF 1B

- » OAF 1b Portion of OAF 1 influenced by management
- » Elements named 'Espacement' and 'Non-commercial competition' are best addressed in this OAF category.
- » Irregular spacing, relative to that assumed in TIPSY, will impact yield, although it takes a substantial difference to generate a small OAF 1b reduction. Yields are affected by irregular spacing only when crowns take a long time to close, as is the case in a clumped stand.
- » If non-commercial cover competes persistently for site resources, then use an OAF 1b.

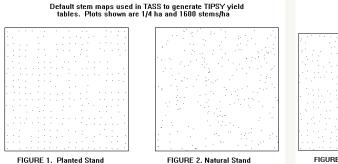
**TIPSY 4.3 Help** 

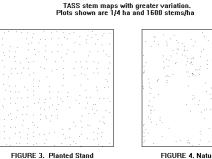


# **ASSUMPTIONS USED IN OAF1** DEVELOPMENT

Element	Assumption	Use OAF if:
Escapement	Average spacing following planting or natural regeneration is	Stands deviate significantly
	uniform and stands are fully stocked (see Fig. 1 and 2).	(see Fig. 3 and 4).

The default stem map for planted stands (Fig. 1) is nearly uniform while the stem map in Fig. 3 has more variation in planting location. The default stem map for natural stands (Fig. 2) has a random distribution of seedlings covering the entire site while Fig. 4 has a more clumped distribution of seedlings. The planted stand in Fig. 3 produced no significant yield reduction compared to the default (Fig. 1). The yield of the natural stand in Fig. 4 was about 4% lower near culmination of MAI than the default (Fig. 2).







**TIPSY 4.3 Help** 

# ASSUMPTIONS USED IN OAF1 DEVELOPMENT

Element	Assumption	Use OAF if:
Non- commercial competition	Competition is modeled only for tree species specified in the yield table.	Brush and non-commercial tree species are severely impacting the commercial crop, and its yield will be reduced.
Disease and pests	Impact is minimal. Research plots were not established where disease or pests were active. If disease or pests became a problem after establishment, those plots were generally abandoned.	Disease or pests are active in the stand or are likely to be.

**TIPSY 4.3 Help** 

10



# OAF1 ANALYSIS USING LIDAR DATA

- » TFL 37 LiDAR flown in 2016 processed data received in Spring 2017
- » Selected stands 40 140 years old
  - » Reflect site occupancy at or nearing rotation age
  - » Gaps in such stands are assumed to represent low/non-productive area within the stand





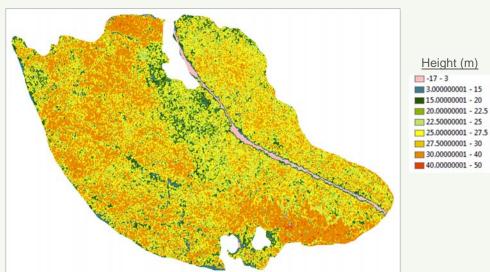
LiDAR can be used to measure OAF 1a

12



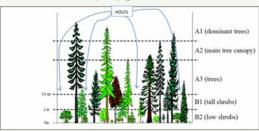
# OAF1 ANALYSIS USING LIDAR DATA

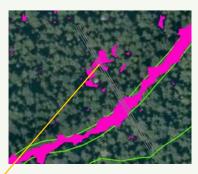
» Generate LiDAR-based crown height model (CHM) for selected stands:



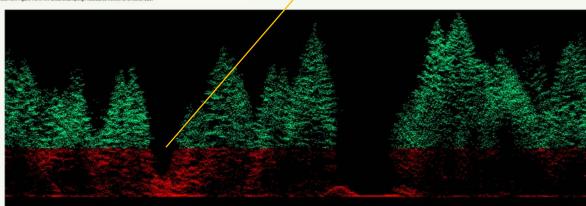


» Create polygons where CHM < 10m





65 year old stand 3.7 % < 10m



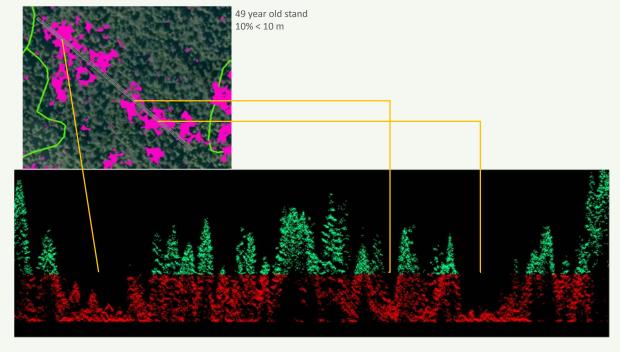
LiDAR can be used to measure OAF 1a

14

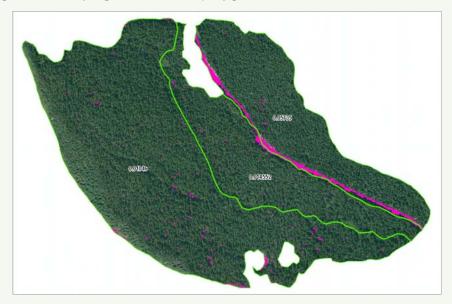


# OAF1 ANALYSIS USING LIDAR DATA

 $^{\scriptscriptstyle{>\!\!>}}$  Create polygons where CHM < 10m



- » Calculate percentage of underlying forest cover polygon area:
- » Note influence of road corridor to right-side polygon



LiDAR can be used to measure OAF 1a

16



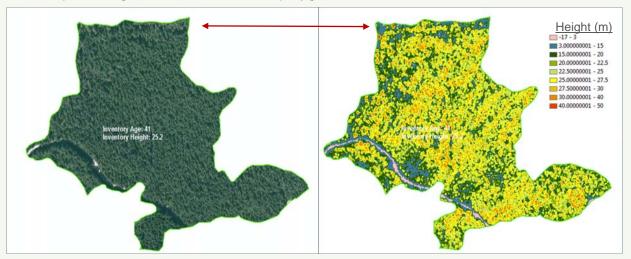
# OAF1 ANALYSIS USING LIDAR DATA

» Repeat calculation recognizing road corridor:





- » Two challenges were encountered
- 1. Spatial alignment of forest cover polygons and LiDAR data



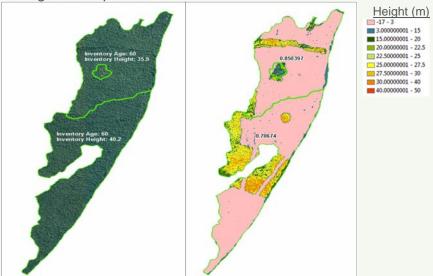
There are challenges

18



# OAF1 ANALYSIS USING LIDAR DATA

- » Two challenges were encountered
- 2. Incongruent depletions





» Results (excluding where gaps > 15%)

					THLB Ha	
		Gross Ha	THLB Ha	Good	Medium	Poor
Total Area		31,366	22,694	17,687	4,586	421
<b>Gap &gt;10% and</b>	На	2,407	1,460	1,007	406	47
< 15%	%	7.7%	6.4%	5.7%	8.9%	11.2%
Gap >5% and	На	4,390	2,944	2,305	568	71
<= 10%	%	14.0%	13.0%	13.0%	12.4%	16.9%
Gap >2% and	На	6,805	5,203	4,362	793	48
< =5%	%	21.7%	22.9%	24.7%	17.3%	11.4%
Gap > 1% and	На	4,313	3,591	3,194	383	14
<=2%	%	13.8%	15.8%	18.1%	8.3%	3.4%
Gap <= 1%	На	5,635	4,667	4,175	475	17
	%	18.0%	20.6%	23.6%	10.4%	4.0%
Area-weighted average gap factor				4.0%	5.4%	7.2%

» THLB weighted averages rise to 5.6%, 9.5% and 11.3% if apply 15% factor to remaining area

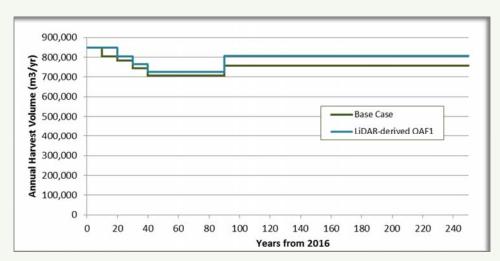
Gaps in THLB stands much less than 15%

20



# OAF1 ANALYSIS USING LIDAR DATA

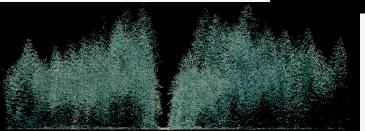
» Adjusting yields to reflect conservative LiDAR OAF1 values increases mid & long-term timber supply





# ROAD WIDTHS NETDOWN





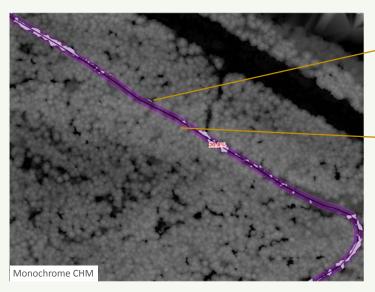
LiDAR can be used to determine growing area lost to roads

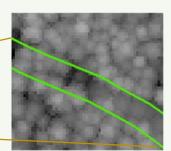
22



# **ROAD WIDTHS**

- » Apply MP # 10 Base Case road buffers
- » Intersect road buffers through forest cover so have forest age, then intersect through CHM.
- » Create polygon where CHM < 10m and determine percentage of road buffer polygon where trees cover is less than 10m tall.



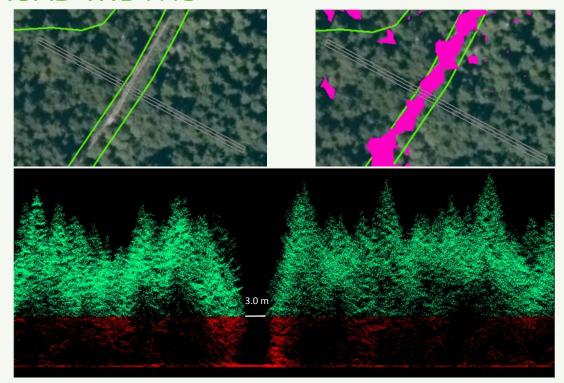


In this example (spur road within 45 year old stand) only 20.8% of the road buffer is not covered by tree crowns >= 10 m tall.

Therefore a 2m buffer would accurately represent this area.



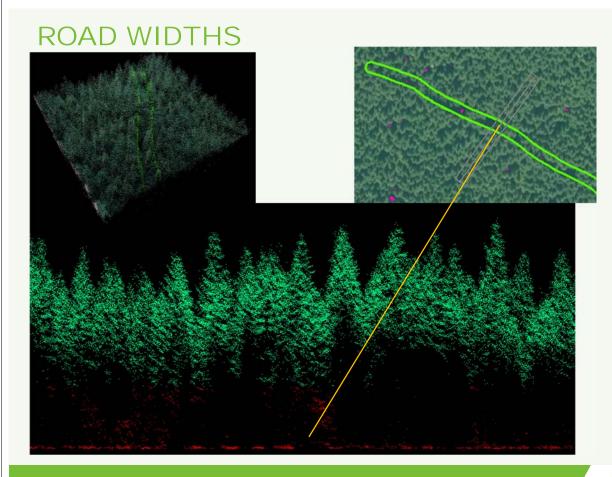
# **ROAD WIDTHS**



Point Cloud sample for road R/W

24





## **ROAD WIDTHS RESULTS**

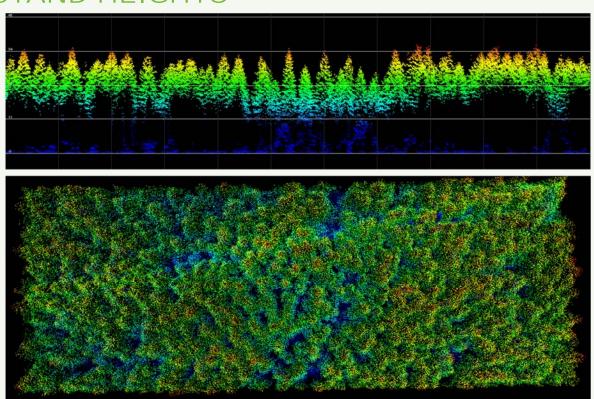
- » After deducting the landbase lost to Highway 19, 3,837 ha are removed from the THLB by applying the Base Case road widths assumptions.
- » When all current roads are considered, the LiDAR data indicates that 2,802 ha are not covered with crowns at least 10 m tall – 1,035 ha less (1.2% THLB increase).
- » When extrapolating results for only current roads within stands 40 140 years old across all roads, the LiDAR data indicates that 1,918 ha are not covered with crowns at least 10 m tall 1,919 ha less (2.2% THLB increase).

Less growing area lost to roads than assumed in Base Case

26



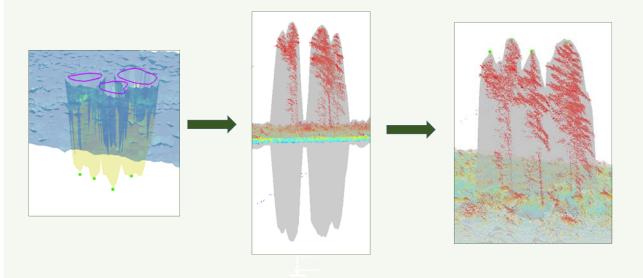
# STAND HEIGHTS





# STAND HEIGHTS PROCESS

- » Invert CHM and use "watershed" tool to find low point → tree top
- » Assign CHM value (depth) and re-invert → height



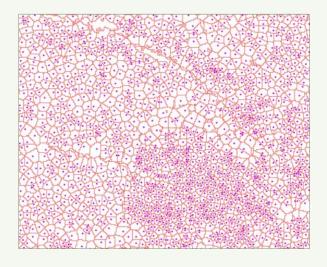
Multi-step process to isolate tree tops / heights

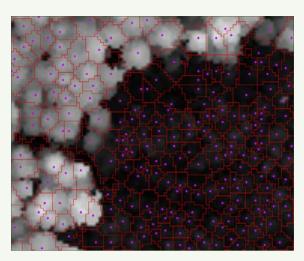
28



# STAND HEIGHTS PROCESS

» Possible side product is 2D extent of individual crowns

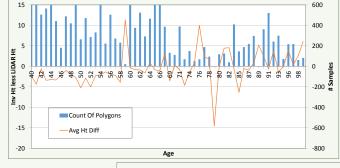


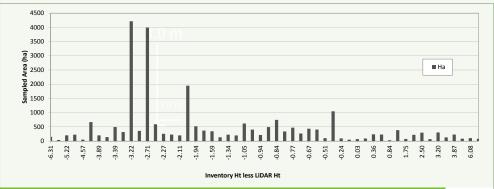




# STAND HEIGHTS

- » Calculate mean height and standard deviation for each forest cover polygon
- » Compare mean + 1 SD (85th percentile) to VDYP projected heights





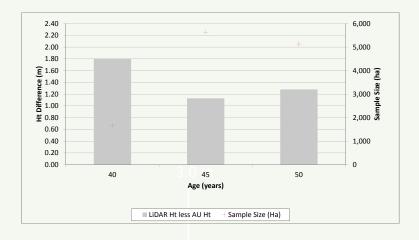
LiDAR heights are greater than inventory heights

30



# STAND HEIGHTS

» For managed stands compared mean + 1 SD (85<sup>th</sup> percentile) to TIPSY modelled heights



» Height variances alone have 5-6% yield implications



# YIELD COMPARISONS

» Compared Base Case modelled yields to HBS data:

			Logged			Differ	ence
Age Class	Yield Model	Yield Source	Area (ha)	Yield Estimate (m3)	Billed Volume (m3)	m3	%
Mature	VDYP	Inventory	3,612	2,445,588	2,416,665	28,923	1.2%
Immature	TIPSY	Analysis Unit yield table	606	323,101	343,489	-20,388	-6.3%

- » Mature volumes very similar
- » Immature volumes underestimated by TIPSY
  - » Tree Heights?
  - » OAF1?
  - » Combination?

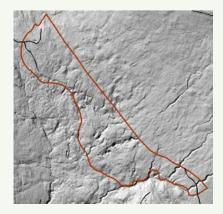
**Volume from 2012-2016 harvesting** 

32



# OTHER ANALYSES

» Karst:



» Operability:

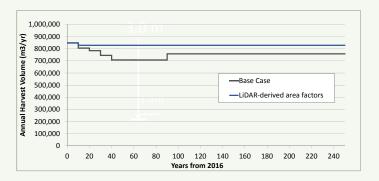






# **CONCLUSIONS**

- » LiDAR provides data to measure key timber supply inputs rather that relying on estimates based on local samples or province-wide "averages"
- » For TFL 37 LiDAR data indicates:
  - » upward pressure on short-term timber supply due to less growing area lost to roads
  - » upward pressure on mid and long-term timber supply due to greater yields from managed stands and less growing area lost to roads



LiDAR indicates TFL 37 Base Case underestimates timber supply

WFF

# QUESTIONS?



From: Moore, Erin V FLNR:EX <Erin.Moore@gov.bc.ca>

Sent: November-16-17 4:15 PM

To: Mike Davis

**Subject:** TFL 37 Nanwakolas Questions

### Hi Mike,

I understand the questions were asked by Jordan Benner in a meeting he had with Atmo, so no email record. They had two questions for clarification:

- 1. Can you please report on harvest performance (5, but preferably 10 years)
  - a. By species (either HBS volume or VRI leading/breakdown)
  - b. By age class (likely cutblock data over pre-harvest inventory)
  - c. By terrain class (4/5)
- 2. Why is there so little difference between the base case (minimum harvest age criteria) in comparison to the 95% MAI sensitivity, given the large differences in age of availability for harvest by analysis unit?
  - a. Relating to this question, is it possible for you to provide the THLB breakdown by harvest system (Conv/Cable/Heli) and past performance by harvest system?

Let me know if you need additional information. Thanks, Erin

### Erin Moore, RPF

Timber Supply/Geomatics Forester Forest Analysis and Inventory Branch (778) 348-2258

From: Mike Davis

**Sent:** November-22-17 9:15 AM **To:** 'Moore, Erin V FLNR:EX'

Subject:RE: TFL 37 Nanwakolas QuestionsAttachments:Memo\_re\_Nanwakolas\_Qx.pdf

Erin,

See the attached memo for responses to the questions listed below. Call if you require any clarification. I assume this will be forwarded to Jordan Benner.

Mike

250-286-4117

From: Moore, Erin V FLNR:EX [mailto:Erin.Moore@gov.bc.ca]

**Sent:** November-16-17 4:15 PM

To: Mike Davis

**Subject:** TFL 37 Nanwakolas Questions

Hi Mike,

I understand the questions were asked by Jordan Benner in a meeting he had with Atmo, so no email record. They had two questions for clarification:

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Let me know if you need additional information. Thanks, Erin

### Erin Moore, RPF

Timber Supply/Geomatics Forester Forest Analysis and Inventory Branch (778) 348-2258

### Western Forest Products Inc.

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# **MEMO**

To: Erin Moore - FAIB

From: Mike Davis

Date: November 21. 2017

Re: Nanwakolas Council Questions re: TFL 37 Timber Supply Analysis Report

Erin.

With regards to the questions you forwarded in an email dated November 16, 2017 I provide the following harvest performance summary statistics for harvest within TFL 37 for the period 2006 – 2016 (11 years).

### **HBS Species Profile**

Total Billed Volume: 9,680,327 m <sup>3</sup>					
Species	Cedar	Cypress	Fir	HemBal	Other
% of billed volume	10%	8%	17%	64%	1%

### VRI (Inventory) Species Profile

Species	Cedar	Cypress	Fir	HemBal	Other
% of inventory volume	12%	8%	13%	66%	1%

### **Inventory Age Class**

Age Class (years)	0-20	21-40	41-60	61-80	81-100	101-120	121-140	141-250	250+
% of inventory volume	0%	1%	4%	9%	12%	1%	1%	5%	68%

### Terrain Stability Class

Terrain Class		II	III	IV	V
% of logged area	13%	29%	43%	14%	1%

### Harvest System (Inventory)

Harvest System	Ground	Cable	Heli
% of inventory volume	48%	45%	7%

The MP #10 THLB breaks down: Ground – 52% Cable – 39%

Heli – 9%

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There is so little difference between the base case (DBH by harvest system derived minimum harvest ages) in comparison to the 95% culmination MAI sensitivity for two reasons:

- 1. When applying the DBH criteria in the Base Case, ground-based harvesting is generally permitted prior to culmination but aligns well with achieving 95% of culmination MAI.
- 2. When applying DBH criteria, minimum harvest ages for cable and heli systems are beyond culmination age.

So, in the Base Case where ground-based harvesting may occur slightly earlier than achieving 95% culmination MAI and where cable and heli harvesting occurs after achieving 95% culmination MAI, the weighted average harvest age is very close to the age at which 95% culmination MAI is achieved; therefore overall yields and timber supply will be similar.

As an example I provide the following table for minimum harvest ages (MHA) for the future analysis units (adopted from Table 45 in the TFL 37 Information Package):

Future AU	Total THLB Ha	MHA based on Ground DBH	MHA based on Cable DBH	MHA based on Heli DBH	MHA based on 95% CMAI
1110	140	65	100	145	65
1210	3,131	65	100	135	65
1310	8,503	45	65	80	55
2110	18	95	185	250	80
2210	634	70	110	155	70
2310	8,614	50	70	90	55
3110	336	70	115	170	70
3210	7,321	55	85	110	60
3310	23,634	50	70	110	55
4110	547	230	250	250	125
4210	7,567	100	170	250	85
4310	16,449	65	100	125	65
5110	555	205	250	250	140
5210	8,747	115	195	250	120

Note the similarities between the ground-based DBH ages and the 95% culmination ages (other than the poorest sites (AU's 4110 and 5110)).

Remember that these are minimum harvest ages for use in the forest estate model and that actual modelled harvest age may be greater due to management of other resources. For these two scenarios the long-term average harvest age is approximately 80 years.

Mike			