Fort St. John Pilot Project

Sustainable Forest Management Plan
2018/19 CSA and Regulatory Annual Report

For the period April 1, 2018 to March 31, 2019

BC Timber Sales
Canadian Forest Products Ltd.
Cameron River Logistics Ltd.
Louisiana-Pacific Canada Ltd.
Mackenzie Pulpmill Corp.
Dunne-za LP
Peace Valley OSB

Final Report
October 30, 2019

Fort St. John Pilot Project

Sustainable Forest Management Plan
2018/19 CSA and Regulatory Annual Report

For the period April 1, 2018 to March 31, 2019

BC Timber Sales (BCTS)
Canadian Forest Products Ltd. (CANFOR)
Cameron River Logistics Ltd. (CRL)
Louisiana-Pacific Canada Ltd. (LP)
Mackenzie Pulpmill Corp. (MPMC)
Dunne-za LP
Peace Valley OSB (PVOSB)

Submitted on behalf of the participants by:

Darrell Regimbald, RPF

Certification Specialist
Canadian Forest Products Ltd.

Prepared by:

Walter Fister, RPF, Area Forester, BC Timber Sales (BCTS)
Tony Wipfli, RPF, Planning Forester BC Timber Sales (BCTS)
Larry McFadden, RPF, Woodlands Supervisor, BC Timber Sales (BCTS)
Rony Mazumder, FIT, Planning Forester, BC Timber Sales (BCTS)
John Rowe, RPF, Woodlands Manager, Canfor
Darrell Regimbald, RPF, Certification Specialist, Canfor
Ritchard LaBoucane, RPF, Harvest Superintendent, Canfor
Dawn Griffin, RPF, Silviculture Supervisor, Canfor
Kim Verbruggen, GIS Coordinator, Canfor
Jeremy Beliveau, RPF, Permitting Supervisor, Canfor
Tabatha Nedokus, RPF, Permit and Appraisal Supervisor, Canfor
Matt Donovan, RPF, Silviculture Supervisor, Canfor
Debbie Ewanchuk, Woodlands Accountant, Canfor
Andrew Tyrrell, RPF, Harvesting Supervisor, Canfor
Peter Zhang, FIT, Planning Supervisor, Canfor
Kyle Winters, FIT, Permitting Supervisor, Canfor
Amanda Kuhn, FIT, Silviculture Crew Leader, Canfor
Jaclyn Iannetta, TFT, Planning Staff, Canfor

EXECUTIVE SUMMARY

Highlights of 2018-19

- **Fifteenth year under Sustainable Forest Management Plan (SFMP)** - The 2018-19 reporting year was the first year of operation under SFMP #3. SFMP #3 was approved on May 4th, 2018. This Annual Report is a derivative of SFMP #3 and the SFMP is referred to throughout the document. The indicators numerically listed in Section 3 of the Annual Report correspond with the indicators listed in section 6 of SFMP #3. For example: Section 6.25 in SFMP #3 equates to Section 3.25 in this document and both refer to Indicator 25. The SFMP #3 and this document can be found at: https://www.fsjpilotproject.com/project.html.
- **Spruce beetle probing/management** – Canfor conducted beetle probing in the Kobes area. Two blocks containing live beetles were proposed to be added to the Forest Operations Schedule (FOS) through FOS Major Amendment 373 (after this reporting period). Also through timber reconnaissance, Canfor detected and monitored spruce beetle activities in other parts of the Defined Forest Area (DFA).
- **Pine beetle salvage -** A salvage harvesting program was implemented during the reporting period to recover Lodgepole pine timber damaged by the Mountain Pine Beetle within the Fort St. John TSA. During the reporting period, Canfor received 1,022,383 m3 of coniferous logs from quota and Crown purchase sources, excluding oil and gas salvage and Woodlot license areas. The total received from the pine-leading log strata was 199,111 m3 approximately 19.5% of the total volume received from quota and Crown purchase sources
- **Market deterioration** - Market conditions were turbulent throughout the 2018/19 reporting period. Market prices for lumber and OSB declined over the latter half of the reporting period. The Fort St. John (FSJ) sawmill experience two weeks of curtailment in December of the 2018/19 reporting period.
- **Indicator performance** - The participants achieved consistent positive performance regarding overall conformance to indicator targets with 67 of 69 (97.1%) indicator targets achieved in the 2018-19 year.
- **Legal indicator performance** - For the period of April 1, 2018 to March 31, 2019, the participants achieved the performance indicator objectives on 26 of the 28 different regulatory landscape level strategy indicators (Section 42 of the Fort St. John Pilot Project Regulation (FSJPPR), or affecting Part 3 Division 5 of the FSJPPR-see Section 11) included in SFMP# 3.

Summary of Participants Consistency with the Landscape Level Strategies

The participants' progress in implementing the landscape level strategies contained in the SFMP, as measured by the degree of achievement of the target or acceptable variance of the regulatory indicators, is detailed in Section 11, and summarized as follows:

Timber Harvesting Strategy - Activities were consistent with the targets or acceptable variances on 100% (7 of 7) of the Fort St. John Pilot Project Regulation (FSJPPR) Section 42 performance indicators, and 100% (3 of 3) of non-regulatory SFMP indicators (Canadian Standards Association (CSA) indicators) linked to the Timber Harvesting Strategy.

Access Management Strategy - Activities were consistent with the targets or acceptable variances on 100% (2 of 2) of the FSJPPR Section 42 performance indicators, and 100% (1 of 1) of the Section 35 (6) performance standard indicators and 100% (1 of 1) of non-regulatory SFMP indicators (CSA indicators) linked to the Access Management Strategy.

Patch Size, Seral Stage and Adjacency Strategy - Activities were consistent with the targets or acceptable variances on 100% (4 of 4) of the FSJPPR Section 42 performance indicators, and 100% (2 of 2) of the Section 35 (6) performance standard indicators linked to the Patch size, Seral Stage and Adjacency Strategy. The Wildlife Tree Retention target was not achieved on 1 of 11 Landscape Units.

Riparian Management Strategy - Activities were consistent with the targets or acceptable variances on 100% (4 of 4) of the FSJPPR Section 42 performance indicators, and 100% (2 of 2) of the Section 35 (6) performance standard indicators linked to the Riparian Management Strategy.

Visual Quality Management Strategy - Activities were assessed as being consistent with the target or acceptable variance for the Section 42 performance indicator on blocks requiring assessment prior to the end of the reporting period. Therefore, activities were consistent with the target or acceptable variance on 100% (1 of 1) of the Section 42 performance indicator linked to the Visual Quality Strategy.

Forest Health Management Strategy - Activities were consistent with the targets or acceptable variances on 83% (5 of 6) of the Section 42 performance indicators and 100% (1 of 1) non regulatory SFMP indicators linked to the Forest Health Management Strategy.

Range and Forage Management Strategy - Activities were consistent with the targets or acceptable variances on 100% (2 of 2) of the Section 42 performance indicators, and 100% (1 of 1) non regulatory SFMP indicators linked to the Range and Forage Management Strategy.

Reforestation Strategy (conifer) - Activities were consistent with the targets or acceptable variances on 75% (3 of 4) Section 42 performance indicators, on 100% (2 of 2) Section 35 (6) performance standard indicators and 100% (1 of 1) non-regulatory SFMP indicators linked to the Reforestation Strategy.

Soil Management Strategy – Activities were consistent with the target or acceptable variance for the Section 42 performance indicator linked to the Soil Management Strategy. 100% (1 of 1) legal indicators were met.

Summary of Changes to the Indicator's or their Status

The following table summarizes non-conformances to indicators in the 2018 reporting year, and revisions made to the SFMP for the reporting year (note that indicators in red text refer to those related to regulatory requirements under the FSJPPR).

Indicator	Non Conformance
Indicator 30 - Establishment Delay (See Section 3.30)	Mixedwood blocks did not meet acceptable establishment delay variance of 3.5 years.
Indicator 49 - Forest Health FOS Planning (See Section 3.49)	The number of pine leading FOS blocks was below target.
Indicator	**Significant Revisions**
None	

SFMP #3 was approved May 4, 2018. Therefore, the 2018-2019 Annual Report describes the participant's performance to indicators and targets as written in SFMP #3.

This report was discussed with the Fort St John Pilot Project Public Advisory Group on October 10, 2019.

TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

APPENDICES

1. INTRODUCTION AND OVERVIEW

This annual report summarizes activities completed between April 1, 2018 and March 31, 2019 on tenures managed by participants in the Fort St. John Pilot Project. Activities occurred on the following tenures: BC Timber Sales, FL A18154 and PA 12 held by Canadian Forest Products Ltd; FL A59959 held by Cameron River Logging Ltd.; FL A60972, held by Mackenzie Pulp Mill Corp.; FL A60050, FL A60049 and PA 20 held by Louisiana-Pacific Canada Ltd.; FL A85946 held by Louisiana Pacific - Peace Valley OSB; and FL A56771 jointly held by Dunne-za Ventures and Canadian Forest Products Ltd.

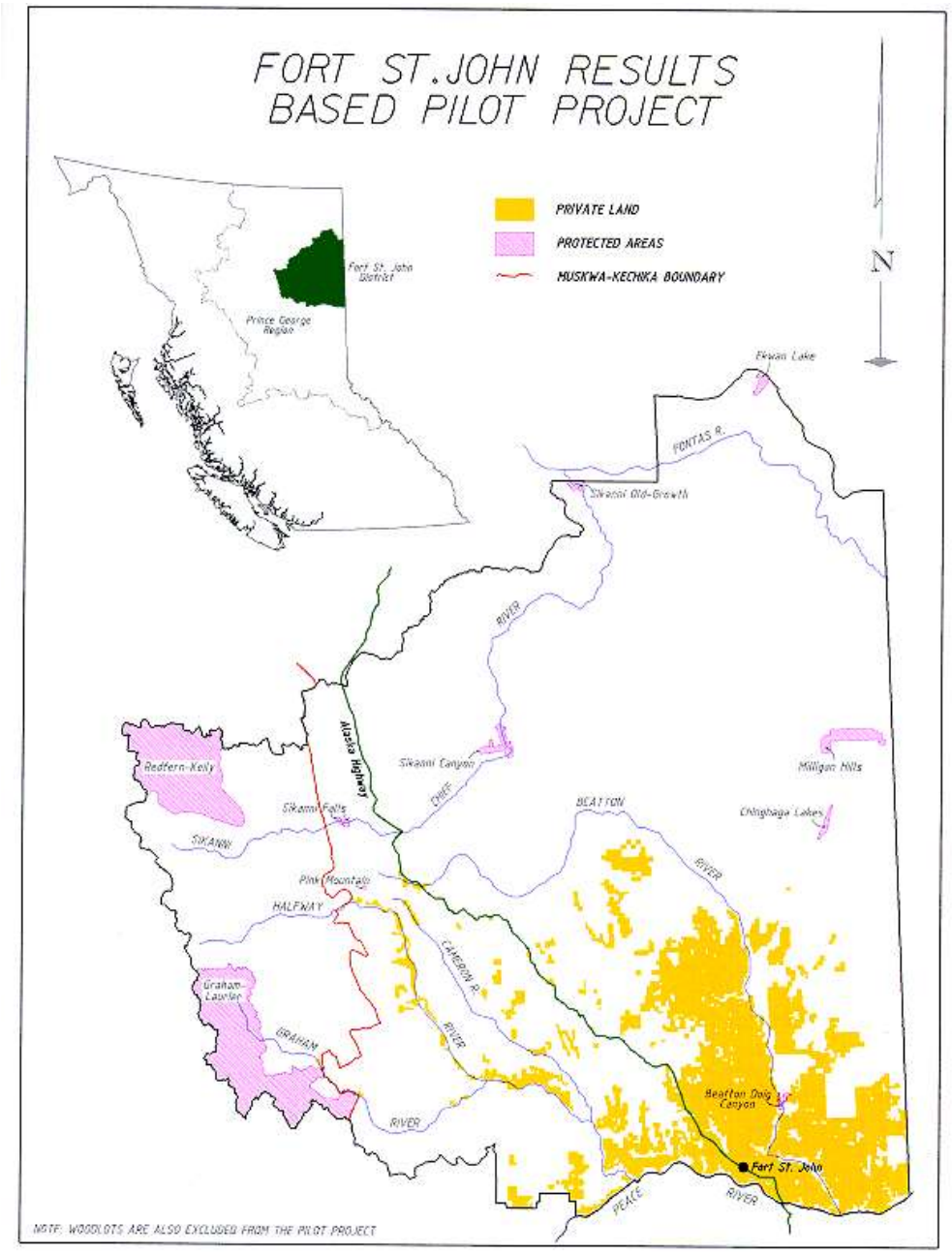

Figure 1: Project Area Map

The Pilot Participants achieved registration under the Canadian Standards Association CAN/CSA Z809-02 Sustainable Forest Management System for the Fort St. John TSA (Timber Supply Area) (see Figure 1) forestry operations on October 17, 2003. In partial fulfillment of achieving registration, a public group, the Public Advisory Group (PAG), was formed in 2001 to help identify and select values, objectives, indicators, and targets for sustainable forest management. The original indicators and targets identified by the PAG, along with associated forest management practices to achieve those objectives, were detailed in the Sustainable Forest Management Plan #1 (SFMP #1) and revised in SFMP #2. The participant's registration was most recently renewed on December 3, 2014. The 2018 Annual Report is a summary report on the status of each indicator. The report includes revisions to the indicators, targets, or the way they are measured, as noted in amendment #3 to SFMP #2. Future revisions, if any, to the indicators, targets, or the way they are measured will be captured in subsequent annual reports.

This report is prepared annually, as required by the CSA standard and the *FSJPPR*. In this report, each indicator is reiterated, and a brief status report is provided in Section 3. For additional background information on the indicators and targets, or the implementation and monitoring requirements, the reader should refer to the SFMP and SFMP amendments.

In addition to CSA requirements, this report includes information required by Section 51 of the *FSJPPR*. This information is expressed in sections of the annual report which demonstrate the participants' access management, harvesting, and reforestation activities (Sections 4 to 7), as well as variances (Section 8), compliances (Section 9), plan amendments (Section 10), and a statement on progress on Landscape Level Strategies (Section 11). **The section headings and appendices of this report that address the legal requirements of the *FSJPPR* are identified in the table of contents, as well as throughout the report, in red text.**

The following indicators are reported on periodically, typically at the close of an SFMP/FOS management period. For greater clarity, these indicators are analyzed at the time the SFMP is developed and in addition, when a new FOS is developed to ensure that a new FOS is consistent with the SFMP. The condition of these indicators has been reported in the 2018-19 annual report. The indicators referenced are:

- 1 - Forest Types
- 2 - Seral Stages
- 3 - Patch Size
- 8 - Shrubs
- 17 - Representative Examples of Ecosystems
- 34 - Peak Flow Index

Analysis of these indicators, and comparison against the condition present when the SFMP was developed, illustrates both the effect of changing stand dynamics (i.e. forests aging) and the impact of the participants' activities in the Defined Forest Area (DFA). The results presented here will account for the areas amended into the FOS, in response to wildfires, Mountain Pine Beetle, and the harvest needs of the Participants between 2010 and 2018.

These indicators are anticipated to be reported on again in the 2022-23 annual report.

Monitoring procedures as outlined in the SFMP were followed to the best of the participants' abilities. However, full description for all the detailed procedures used in the analyses was not always available due to incomplete documentation and staffing changes. Therefore, the participants had to make some assumptions during analysis that may or may not have been consistent with those done previously. In the participant's estimation, variation resulting from this uncertainty is likely to be quite low, but still possible.

Another source of potential variation likely lays in the private land, lease, and woodlot spatial data used. To complete the analyses for this Annual Report, the participants utilized the most current private land, lease, and woodlot data. The data for these items available to the participants at the time the SFMP was developed was unreliable, and has not been archived. Changes in these data has resulted in a minor reduction in the size of the forested land base managed by the participants.

These issues account for the variation in the forest inventory data presented between the analyses completed when the SFMP was developed and those completed to reflect the current forest condition for the 2009 and this the 2018 annual report.

2. DESCRIPTION OF THE PILOT PROJECT

In June 1999 the BC government added Part 10.1 to the *Forest Practices Code of BC Act* to enable results-based pilot projects. The intent of the pilot projects is to test ways to improve the regulatory framework for forest practices while maintaining the same or higher levels of environmental standards.

Canadian Forest Products Ltd., Slocan Forest Products Ltd., Louisiana-Pacific Canada Ltd., and the Ministry of Forests Small Business Forest Enterprise Program prepared a detailed pilot project proposal that provided the basis for the *Fort St. John Pilot Project Regulation* (FSJPPR). In 2001, the participants established a public advisory group (PAG) comprised of local people representing a variety of interests. The public advisory group reviewed the draft detailed project proposal and draft regulation, reviewed comments from the general public and provided advice to government on the suitability of the project. Cabinet accepted the proposal and a draft regulation late in 2001. The regulation was approved as effective December 1, 2001.

The *Fort St. John Pilot Project Regulation* requires the establishment of a strategic plan for the pilot project area, known as a Sustainable Forest Management (SFM) Plan. The participants prepared the SFMP with the guidance of a local public advisory group and a scientific/technical advisory committee.

The SFMP was approved by the Regional Manager, Northern Interior Forest Region, Ministry of Forests and the Regional Director, Omineca-Peace Region, Ministry of Water, Land and Air Protection, in April 2004. A revised SFMP was prepared and submitted to Government for approval in July 2010. SFMP #2 has undergone thorough review by the PAG, First Nations, the public and scientific technical advisors and Government. Government, on November 1, 2010 approved SFMP #2.

SFMP #3, which is based on SFMP #2 was prepared during 2015 and has undergone thorough review by the PAG, First Nations, the public and scientific technical advisors and Government. SFMP #3 was submitted to government for approval on May 30, 2016 and

revised on April 18, 2017. SFMP #3 was given conditional approval on May 4, 2018 by the Ministry of Forests, Lands, Natural resource Operations and Rural Development (MFLNRORD).

3. SFM INDICATORS, OBJECTIVES AND TARGETS

The format of each status report is described below:

X.X INDICATOR

Indicator Statement	Target Statement
A reiteration of the indicator as identified in the landscape level strategy or the SFM matrix.	A specific statement describing a desired future state or condition of an indicator. Targets are succinct, measurable, achievable, realistic, and time bound.
SFM Objective: A description the SFM objectives that this indicator and target relate to.	
Linkage to FSJPPR: If applicable, a brief statement regarding whether this indicator affects performance requirements of the FSJPPR, or if it will be used to evaluate success of the implementation of the landscape level strategy. Any linkages expressed in this section refer to the SFMP #3 which can be found at https://www.fsjpilotproject.com/project.html.	

Acceptable Variance:

This provides the acceptable variance from the desired level of the indicator.

CURRENT STATUS AND COMMENTS

This section provides an update on the status of each indicator and objective. The best information available up to and including March 31, 2018 (except where noted) was used for the preparation of this status report.

Target Achieved	
✓ **Yes**	**No**

REVISIONS

When required, this section describes suggested revisions to details (e.g., wording, reporting periods) of the indicator and objective. These revisions will be presented to the PAG for their review.

Status of Indicators in 2018-19

3.1. Forest Types

Indicator Statement	Target Statement
Percent distribution of forest type (deciduous, deciduous mixedwood, conifer mixedwood, conifer) >20 years old by landscape unit.	All forest type groups by landscape unit will meet or exceed the minimum area percentage in Table 9.[1]
SFM Objective: Maintain the diversity and pattern of communities and ecosystems within a natural range. Ecosystem functions capable of supporting naturally occurring species exist within the range of natural variability.	
Linkage to *FSJPPR*: For the purposes of Section 42 of the *FSJPPR* this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the Forest Health Landscape Level Strategy.	

Acceptable Variance:

There is no acceptable variance for this indicator.

Targets may need to be reviewed following large natural catastrophic events.

CURRENT STATUS AND COMMENTS

This indicator monitors the change in the proportion of forest type groups (> 20 years old), within broad groups based on leading tree species, over time. Stands less than 20 years of age are not included as they typically show significant fluctuations in tree species composition each year due to things such as silviculture practices or rapid natural ingress of species in regenerating stands. Forest type groups are the designation of stand types into one of 4 ecologically significant groups – pure deciduous, deciduous leading mixedwood, conifer leading mixedwood, and pure conifer.

The following table (Table 1) is taken from Forest Operations Schedule #3, and presents the baseline status as of 2017 and the SFMP targets by Forest Type and Landscape Unit. All forty-four Forest Type / Landscape Unit combination targets were found to be above the target minimums, and therefore consistent with the SFMP target.

The participants' activities are consistent with the target for this indicator. The analysis for this indicator will be conducted again when significant amendments to the Forest Operations Schedule are proposed (eg. Significant addition of proposed block area) or significant natural disturbance occurs across multiple landscape units.

[1] Refers to Table 9 in the *Fort St. John Pilot Project Sustainable Forest Management Plan #2*

Table 1: 2018 Status for Forest Types

Landscape Unit	Forest Type	2017 current status		Min Target Area
		Area (ha)	% of L.U.	%
Blueberry	Coniferous Leading	156706	41%	33%
	Coniferous Mixed	44109	12%	8%
	Deciduous Leading	125321	33%	28%
	Deciduous Mixed	54135	14%	11%
Blueberry Total		380270		
Crying Girl	Coniferous Leading	54310	93%	76%
	Coniferous Mixed	1818	3%	1%
	Deciduous Leading	915	2%	1%
	Deciduous Mixed	1164	2%	1%
Crying Girl Total		58207		
Graham	Coniferous Leading	217145	95%	77%
	Coniferous Mixed	5227	2%	1%
	Deciduous Leading	3748	2%	1%
	Deciduous Mixed	3416	1%	1%
Graham Total		229536		
Halfway	Coniferous Leading	91975	73%	62%
	Coniferous Mixed	8698	7%	3%
	Deciduous Leading	15426	12%	9%
	Deciduous Mixed	9436	8%	4%
Halfway Total		125535		
Kahntah	Coniferous Leading	95973	40%	29%
	Coniferous Mixed	23186	10%	10%
	Deciduous Leading	86178	36%	30%
	Deciduous Mixed	34257	14%	10%
Kahntah Total		239594		
Kobes	Coniferous Leading	40457	45%	35%
	Coniferous Mixed	10127	11%	8%
	Deciduous Leading	29484	33%	28%
	Deciduous Mixed	9988	11%	9%
Kobes Total		90056		
Lower Beatton	Coniferous Leading	14040	14%	11%
	Coniferous Mixed	6784	7%	5%
	Deciduous Leading	69195	70%	56%
	Deciduous Mixed	8519	9%	7%
Lower Beatton Total		98538		
Milligan	Coniferous Leading	85504	59%	45%
	Coniferous Mixed	9692	7%	6%
	Deciduous Leading	40048	28%	24%
	Deciduous Mixed	9668	7%	5%
Milligan Total		144911		
Sikanni	Coniferous Leading	151088	95%	75%
	Coniferous Mixed	3008	2%	1%
	Deciduous Leading	3001	2%	1%
	Deciduous Mixed	2152	1%	1%
Sikanni Total		159250		
Tommy Lakes	Coniferous Leading	149471	50%	45%
	Coniferous Mixed	29899	10%	8%
	Deciduous Leading	73617	25%	18%
	Deciduous Mixed	44272	15%	9%
Tommy Lakes Total		297258		
Trutch	Coniferous Leading	116855	56%	48%
	Coniferous Mixed	18389	9%	7%
	Deciduous Leading	47023	23%	17%
	Deciduous Mixed	25408	12%	9%
Trutch Total		207674		
Grand Total		2030828		

Reforestation is balanced on the landscape using the mixedwood ledger for the area that is impacted by harvesting which accounts for a small percentage of the landscape unit. Large variances in the forest type areas are due to updated Vegetation Resources Inventory (VRI) information.

Change Monitoring Inventory (CMI)

Long term monitoring of species composition change within managed stands will occur throughout the DFA via Change Monitoring Inventory (CMI) plot establishment and re-measurement. Starting in 2003, the Participants have contracted the establishment of Change Monitoring Inventory plots in the Defined Forest Area on harvested or burnt areas. The location of these plots is on a systematic 3km square grid overlaid on the DFA. It is intended to establish plots on predefined points located on the grid, where they fall in managed stands, 15 years after harvest. Over time and subsequent re-measurements, the data from these plots can be used to detect long-term changes in managed stands' species composition. CMI work is dependent on contractor availability and budgets. Annual CMI activities may include establishment of new plots as well as re-measurement of plots established at least 10 years ago.

Target Achieved	
✓ **Yes**	**No**

REVISIONS

There are no revisions planned for this indicator.

3.2. SERAL STAGES

Indicator Statement	Target Statement
The minimum proportion (%) of late seral stage forest by NDU.	The minimum proportion (%) of late seral forest by NDU as identified in Table 11[2] will be met.
SFM Objective: Maintain the diversity and pattern of communities and ecosystems within a natural range. Ecosystem functions capable of supporting naturally occurring species that exist within the range of natural variability. Maintain a natural range of variability in ecosystem function, composition and structure which allows ecosystems to recover from disturbance and stress.	
Linkage to *FSJPPR*: For the purposes of Section 42 of the *FSJPPR* this indicator statement, target and acceptable variance will be one of the indicators used to determine if forest practices are consistent with the Patch Size, Seral Stage and Adjacency and Forest Health Management Landscape Level Strategies.	

Acceptable Variance:

A 1% variance below the target is permissible provided projections indicate the target can be met within 20 years (eg. Boreal Foothills minimum allowable would be 22%).

CURRENT STATUS AND COMMENTS

The Seral Stages indicator is in place to ensure that a minimum proportion of late seral stage forest will be present across the DFA through time. It sets limits on harvest planning in later seral stage stands, by Natural Disturbance Unit (note, in SFMP #1 the limits pertained to Landscape Units). A landscape-level analysis (based on NDUs) was completed when FOS #3 was developed. The projection through 2025, which considered all the newly proposed FOS blocks, indicates that the amount of area in late seral stands through 2025 will be above the minimum targets set for all NDUs in the DFA. Therefore, the participants are consistent with the target for this indicator.

The following tables (Table 2, Table 3, and Table 4) are excerpted from the FOS #3, and present the results of the most recent seral stage analyses. The 'current condition' values account for the harvesting activities that started prior to March 31, 2017. For further detail regarding seral stages target development and application, please refer to the *Fort St. John Pilot Project Sustainable Forest Management Plan #2 (section 6.2)* and the *Fort St. John Pilot Project Forest Operations Schedule #3. (section 3.3)*.

The analysis for this indicator will be conducted again when significant amendments to the Forest Operations Schedule are proposed (eg. significant addition of proposed block area) or significant natural disturbance occurs across multiple landscape units.

[2] Refers to Table 11 in the *Fort St. John Pilot Project Sustainable Forest Management Plan #2*

Table 2: Boreal Plains Conifer Current and 2025 Seral Stage and Target

LU_NAME	< 40 years				41 - 100 years				101 - 140 years				> 140 years						Total Area
	2017		2025		2017		2025		2017		2025		2017			2025			
	area (ha)	%	area (ha)	%	area (ha)	%	area (ha)	%	area (ha)	%	area (ha)	%	area (ha)	%	Surplus (ha)	area (ha)	%	Surplus (ha)	
Blueberry	59410	17%	61911	18%	148573	43%	141809	41%	92814	27%	84738	24%	45741	13%		58080	17%		346538
Crying Girl		0%		0%		0%		0%	3	32%		0%	7	68%		10	100%		10
Halfway	11944	8%	16182	11%	29040	20%	23512	16%	49798	34%	41485	28%	55489	38%		65093	45%		146271
Kahntah	6831	1%	6767	1%	395913	67%	337770	58%	144102	25%	182690	31%	40406	7%		60026	10%		587252
Kobes	14037	17%	15077	18%	10722	13%	10762	13%	37992	46%	31967	39%	19035	23%		23982	29%		81787
Lower Beatton	19202	42%	19398	42%	16023	35%	13656	30%	9049	20%	10621	23%	1953	4%		2554	6%		46227
Milligan	29617	8%	28901	8%	244595	65%	241125	64%	45332	12%	37986	10%	59481	16%		71012	19%		379025
Sikanni		0%		0%		0%		0%	0	100%	0	100%		0%			0%		0
Tommy Lakes	22563	4%	37445	7%	215421	39%	183368	33%	217759	39%	218253	39%	103357	18%		120034	21%		559100
Trutch	2258	1%	6018	2%	126169	36%	107972	31%	131570	38%	131558	38%	87138	25%		101586	29%		347134
Grand Total	165862	7%	191698	8%	1186456	48%	1059972	43%	728419	29%	739297	30%	412607	17%	25187	502376	20%	100747	2493343
												Oil and gas area included:		16%			20%		2518676

Target = 16%

2017 - uses FOS blocks with harvest start date <Mar 31, 2017

2025 - uses FOS blocks with harvest start date >Mar 31, 2017

Table 2 identifies the current and expected 2025 conifer seral condition upon the completion of all harvest activities proposed by FOS #3 for the Boreal Plains Natural Disturbance Unit (NDU). Upon completion of all conifer harvest activities proposed in FOS #3 the conifer seral targets are achieved for the Boreal Plains NDU and the analysis indicates a surplus of 100,747 ha of old forest (amount of old forest above the target).

The old seral analysis also considered the cumulative effect of timber harvesting and oil and gas disturbance on the landbase. The existing calculated area occupied by wellsites and pipelines is 25,333ha, by adding this area (25,333ha) to the harvested area, the Boreal Plains Conifer late seral current condition is 16% and future is 20%.

Table 3: Boreal Plains Deciduous Current and 2025 Seral Stage and Target

LU_NAME	< 40 years				41 - 100 years				> 100 years						Total area
	2017		2025		2017		2025		2017			2025			
	area (ha)	%	area (ha)	%	area (ha)	%	area (ha)	%	area (ha)	%	surplus (ha)	area (ha)	%	surplus (ha)	
Blueberry	17320	9%	26845	14%	101907	55%	93261	50%	67578	36%		66699	36%		186805
Crying Girl		0%		0%	5	100%	3	62%	0	0%		2	38%		5
Halfway	1599	6%	3692	14%	10475	41%	8415	33%	13531	53%		13497	53%		25604
Kahntah	2737	2%	3084	2%	98870	79%	86639	69%	24111	19%		35996	29%		125718
Kobes	3013	8%	7700	19%	10911	27%	7696	19%	26222	65%		24750	62%		40146
Lower Beatton	10618	13%	9990	12%	59051	70%	54504	64%	15189	18%		20364	24%		84858
Milligan	6059	12%	5534	11%	42256	81%	42553	81%	4130	8%		4358	8%		52445
Tommy Lakes	4859	4%	17272	14%	58998	49%	49532	41%	56354	47%		53407	44%		120211
Trutch	612	1%	2186	3%	39857	53%	34940	47%	34045	46%		37388	50%		74514
Grand Total	46817	7%	76303	11%	422329	59%	377543	53%	241160	34%	129287	256460	36%	143652	710306
							Oil and gas area included			34%			36%		718260
										Target = 16%					

2017 - uses FOS blocks with harvest start date <Mar 31, 2017

2025 - uses FOS blocks with harvest start date >Mar 31, 2017

Table 3 identifies the current and expected 2025 deciduous seral condition upon the completion of all harvest activities proposed by FOS #3 for the Boreal Plains NDU. Upon completion of all deciduous harvest activities proposed in FOS #3 the deciduous seral targets are achieved for the Boreal Plains NDU and the analysis indicates a surplus of 143,652 ha of old forest (amount of old forest above the target).

The old seral analysis also considered the cumulative effect of timber harvesting and oil & gas disturbance on the landbase. By including existing oil and gas area in the calculation (7,954ha) the Boreal Plains Deciduous late seral current condition is 34% and future is 36%.

Table 4: Boreal Foothills Valley and Mtn, Northern Boreal Mountains, Omineca Mtns and Valley: Current and 2025 Seral Stage and Targets

NDU Sub-Unit	Landscape Unit	< 40 years				40 - 100 years				101 - 140 years				> 140 years					Target
		2017		2025															
		Area	%	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%	Grand Total	
Boreal Foothills - Mountain	Crying Girl	931	2%	792	2%	4020	10%	3087	7%	19132	46%	16118	38%	17845	43%	21930	52%	41927	
	Graham	1870	2%	1817	2%	10561	13%	6597	8%	41091	49%	35436	42%	30960	37%	40632	48%	84482	
	Halfway	15	0%	15	0%	2069	16%	1764	13%	4471	34%	3335	25%	6636	50%	8077	61%	13192	
	Kobes									8	54%	8	54%	7	46%	7	46%	15	
	NDU Total	2815	2%	2624	2%	16650	12%	11448	8%	64702	46%	54897	39%	55448	40%	70646	51%	139616	33

NDU Sub-Unit	Landscape Unit	< 40 years				40 - 100 years				101 - 140 years				> 140 years					
		2017		2025															
		Area	%	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%	Grand Total	
Boreal Foothills - Valley	Crying Girl	1386	7%	977	5%	2747	13%	2561	12%	9308	45%	8560	41%	7347	35%	8689	42%	20787	
	Graham	218	0%	47	0%	6741	13%	4502	8%	22847	43%	19927	38%	23298	44%	28628	54%	53104	
	Halfway	7	0%	7	0%	211	13%	138	9%	435	28%	349	22%	916	58%	1076	69%	1570	
	Kobes									86	49%	82	47%	89	51%	93	53%	175	
	Grand Total	1611	2%	1032	1%	9699	13%	7201	10%	32675	43%	28918	38%	31650	42%	38486	51%	75636	23

NDU Sub-Unit	Landscape Unit	< 40 years				40 - 100 years				101 - 140 years				> 140 years					
		2017		2025															
		Area	%	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%	Grand Total	
Northern Boreal Mountains	LU_NAME	Young		Young		Mid		Mid		Mature		Mature		Old		Old		Grand Total	
	Graham	245	1%	4	0%	5732	18%	3918	12%	7997	25%	8367	26%	18025	56%	19708	62%	31998	
	Sikanni	822	0%	86	0%	23262	13%	14790	8%	57350	32%	58108	33%	96379	54%	104829	59%	177813	
	Trutch									4	100%	4	100%					4	
	Grand Total	1067	1%	90	0%	28994	14%	18708	9%	65350	31%	66479	32%	114404	55%	124537	59%	209815	37

NDU Sub-Unit	Landscape Unit	< 40 years				40 - 100 years				101 - 140 years				> 140 years					
		2017		2025															
		Area	%	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%	Grand Total	
Omenica Mountains	LU_NAME	Young		Young		Mid		Mid		Mature		Mature		Old		Old		Grand Total	
	Crying Girl					33	18%	33	18%	115	64%	91	51%	32	18%	56	31%	180	
	Graham	290	0%	288	0%	5026	5%	4699	5%	26616	27%	20915	21%	68227	68%	74257	74%	100159	
	Grand Total	290	0%	288	0%	5059	5%	4732	5%	26731	27%	21006	21%	68259	68%	74313	74%	100338	41

NDU Sub-Unit	Landscape Unit	< 40 years				40 - 100 years				101 - 140 years				> 140 years					
		2017		2025															
		Area	%	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%	Grand Total	
Omineca Valley	LU_NAME	Young		Young		Mid		Mid		Mature		Mature		Old		Old		Grand Total	
	Crying Girl					0		0		3.9	57%	3.9	57%	2.9	43%	2.9	43%	6.8	
	Graham	141.8	2%	138.3	2%	1146.4	13%	926.2	11%	4392.6	51%	3561.4	42%	2887.8	34%	3942.7	46%	8568.6	
	Grand Total	141.8	2%	138.3	2%	1146.4	13%	926.2	11%	4396.5	51%	3565.3	42%	2890.7	34%	3945.6	46%	8575.4	16

Table 4 identifies the current and expected 2025 seral condition upon the completion of all harvest activities proposed by FOS #3 for the Boreal Foothills Mountain and Valley, NDUs, the Omineca Mountains and Valley NDUs and the Northern Boreal Mountains NDU. Upon completion of all harvest activities proposed in FOS #3 the seral targets are achieved for each of these NDUs.

Landscape units are large and in the foothills area, can encompass more than one natural disturbance unit due to elevational changes.

The seral analysis assumes that all blocks in FOS #3 will have been harvested prior to the end of 2025. The seral analysis indicates that all NDU old forest targets are met in 2017 and 2025. Therefore, performance to date and projected performance under FOS #3 is consistent with this indicator.

Target Achieved	
✓ **Yes**	**No**

REVISIONS

Revisions to this indicator will be considered over the next 1-2 years in light of the SFMP #3 approval letter.

3.3. PATCH SIZE

Indicator Statement	Target Statement
Percent area by Patch Size Class (0-50, 51-100, and >100 ha) by NDU.	A minimum of 9 of 18 of the baseline targets for early patches will be achieved during the term of this SFMP (Table 16)[3].
SFM Objective: Maintain the diversity and pattern of communities and ecosystems within a natural range. Ecosystem functions capable of supporting naturally occurring species that exist within the range of natural variability.	
Linkage to *FSJPPR*: For the purposes of Section 42 of the *FSJPPR* this indicator statement, target and acceptable variance will be one of the indicators used to determine if forest practices are consistent with the Patch Size, Seral Stage and Adjacency Strategy.	

Acceptable Variances:

Natural disturbance events that shift the patch size distribution to such a level that it cannot be accommodated in a short (decade) time frame.

Seral spatial distribution does not permit patch size targets in the short term.

Patch size distributions will need to be recalculated as new forest inventory is completed and targets and thresholds assessed to determine if they are still appropriate.

CURRENT STATUS AND COMMENTS

This indicator is set up to monitor the patch size distribution for 'early' (≤40 yrs) forest within the Fort St. John Pilot Project area, on a Natural Disturbance Unit basis (note, in SFMP #1 the limits pertained to Landscape Units). The targets are presented in Table 5.

Table 5: Natural Disturbance Unit Early Patch Distribution Targets

Natural Disturbance Unit	Early (<40 yrs) Patch Size Target (%) (acceptable range)		
	100+ ha	51-100 ha	<50 ha
Boreal Plains Uplands (BPU)	90 (65-90)	5 (5-15)	5 (5-15)
Boreal Foothills Valley (BV)	70 (55-85)	10 (5-15)	20 (15-25)
Boreal Foothills Mountain (BM)	70 (55-85)	10 (5-15)	20 (15-25)
Northern Boreal Mountains (NBM)	90 (65-90)	5 (5-15)	5 (5-15)
Omineca Mountains (OM)	70 (55-85)	10 (5-15)	20 (15-25)
Omineca Valley (OV)	90 (65-90)	5 (5-15)	5 (5-15)

[3] Refers to Table 16 in the *Fort St. John Pilot Project Sustainable Forest Management Plan #2*

A landscape-level analysis (based on NDUs) was conducted when FOS #3 was developed. Stand ages were projected through 2025, and all the newly proposed FOS blocks were assumed to be harvested by 2025. The results of the analyses are presented in Table 6.

Table 6: Early Patch Size Class Current Status & Post FOS Condition

	2017 Current Early (<40 years) Patch Size Distribution						
Natural Disturbance Unit (NDU)	Small (<50ha)		Med. (50-100ha)		Large (>100ha)		Totals
Boreal Foothills - Mountain	463	14%	257	8%	2522	78%	3244
Boreal Foothills - Valley	371	16%	208	9%	1764	75%	2344
Boreal Plains - Upland	20875	7%	22138	8%	248601	85%	291616
Northern Boreal Mountains	187	21%	62	7%	647	72%	898
Omineca - Mountains	44	9%	2	0%	426	90%	473
Omineca - Valley	29	14%		0%	177	86%	206
Total DFA (All NDUs)	21972		22669		254140		
Yellow = Below Target Range	Red = Above Target		Blue = No Harvesting Planned				
	2025 Current Early (<40 years) Patch Size Distribution						
Natural Disturbance Unit (NDU)	Small (<50ha)		Med. (50-100ha)		Large (>100ha)		Totals
Boreal Foothills - Mountain	464	14%	296	9%	2506	77%	3268
Boreal Foothills - Valley	250	12%	374	17%	1549	71%	2173
Boreal Plains - Upland	19757	6%	21351	6%	311756	88%	352865
Northern Boreal Mountains	47	100%		0%		0%	47
Omineca - Mountains	43	9%	2	0%	426	91%	471
Omineca - Valley	26	13%		0%	177	87%	203
Total DFA (All NDUs)	20588		22024		316417		

Table 6 identifies the current patch size condition as well as the expected patch size condition in 2025. This analysis assumes that all blocks proposed in FOS #3 will be harvested prior to the end of 2025 and that no new natural disturbance will create new young patch areas.

The 2017 current state indicates that 12 of 18 or 66% of NDU patch size combinations achieve the desired patch size distribution. This is an improvement over the FOS #2 projected condition where 8 of 18 or 44% of early patches were projected to meet the target ranges.

When early patches are analyzed based on the FOS condition (all blocks in FOS #3 harvested by March 31, 2025), 8 of 18 or 44% of early patches meet the target ranges. However it must be noted that the harvesting planned in FOS #3 is situated almost exclusively within the Boreal Plains Upland and Boreal Foothills Valley NDUs. A very minor amount of harvesting is proposed for the Boreal Foothills Mountain NDU, however the majority of young patch disturbance in this NDU is attributable to wildfire.

Harvesting is proposed by FOS #3 in only 2 of the of the 10 NDU patch size combinations where the desired patch size distribution is not achieved in 2025. In 8 of these NDU patch size combinations where harvesting is not proposed and the target distribution is not achieved, it is expected that natural disturbance may alter the actual distribution achieved in 2025.

The foregoing indicates that the participants are consistent with the patch size indicator.

The analysis for this indicator will be conducted again when significant amendments to the Forest Operations Schedule are proposed (eg. Significant addition of proposed block area).

Target Achieved	
✓ **Yes**	**No**

REVISIONS

There are no revisions proposed to this indicator.

3.4. SOIL DISTURBANCE[4]

Indicator Statement	Target Statement
Number of blocks with non-conformances to soil disturbance limits reported annually by Managing Participant.	Zero blocks will have non-conformances to soil disturbance limits.
SFM Objective: Protect soil resources to maintain productive forests.	
Linkage to *FSJPPR*: For the purposes of Section 42 of the *FSJPPR* this indicator statement, target and acceptable variance will be one of the indicators used to determine if forest practices are consistent with the Soil Management Strategy.	

Acceptable Variance:
None

CURRENT STATUS AND COMMENTS
There were no incidents of detrimental soil disturbance reported by the Licensee participants during the 2018-2019 reporting period.

BCTS had no incidents of detrimental soil disturbance reported during the 2018-2019 reporting period.

The participants' activities are consistent with the target and acceptable variance for the soil disturbance indicator.

Target Achieved	
✓ **Yes**	**No**

REVISIONS
No revisions anticipated at this time.

[4] New indicator in 2010 SFMP. Previous SFMP #1 indicator 6.4 was Shape Index, which has been deleted.

3.5. SNAGS/CAVITY SITES

Indicator Statement	Target Statement
Number of snags and/or live trees (>23 cm dbh) per ha on prescribed areas.	Retain annually an average of at least 6 snags and/or live trees (>23 cm dbh) per hectare on prescribed areas.
SFM Objective: Suitable habitat elements for indicator species. Maintain a natural range of variability in ecosystem function, composition, and structure which allows ecosystems to recover from disturbance and stress.	
Linkage to FSJPPR: N/A	

Acceptable Variance:

Prescribed areas within blocks on which the SLP's were completed prior to April 1st 2010 will have a target of 6 snags and/or live trees greater than 23.0 cm dbh (diameter at breast height), consistent with the SFMP in effect at that time.

CURRENT STATUS AND COMMENTS

During the reporting period, Canfor completed harvesting on a total of 75 blocks.

The majority (68) of the blocks had at least some area prescribed for snags or live tree retention. Data for the blocks included in this report were collected during the harvesting phase and as part of final harvest inspections conducted during the reporting period.

The total prescribed area surveyed by licensee participants was 3728 ha, with 47,778 snags and/or live tree residuals retained. The actual retention level of snags or live trees in the blocks averaged 12.8 stems/ha. All blocks surveyed exceeded the landscape level target. Many of the blocks being logged during the reporting period had elevated levels of required retention (eg. 12-15 sph (stems per hectare)), with broader objectives and allowing a smaller minimum diameter limit than articulated in the background for this indicator. However the majority of the additional retention has been of trees with diameters >23 dbh, which helps explain the increase in snag / live tree retention from previous years.

During the reporting period, BCTS completed harvesting on a total of 43 blocks. Of these, 9 blocks had at least some area prescribed for snags or live tree retention. Data collected from these blocks post-harvest shows that BCTS licensees create a total of 4967 stub trees out of a total area of 748.5 hectares. The retention level of snags or live trees in the blocks sampled averaged 6.6 stems/ha.

The participants have met the target for this indicator. The combined snag retention by both participants is 11.8 stems/ha. The following chart (Figure 2) is included to display the participants' performance relative to the targets for this indicator since 2006.

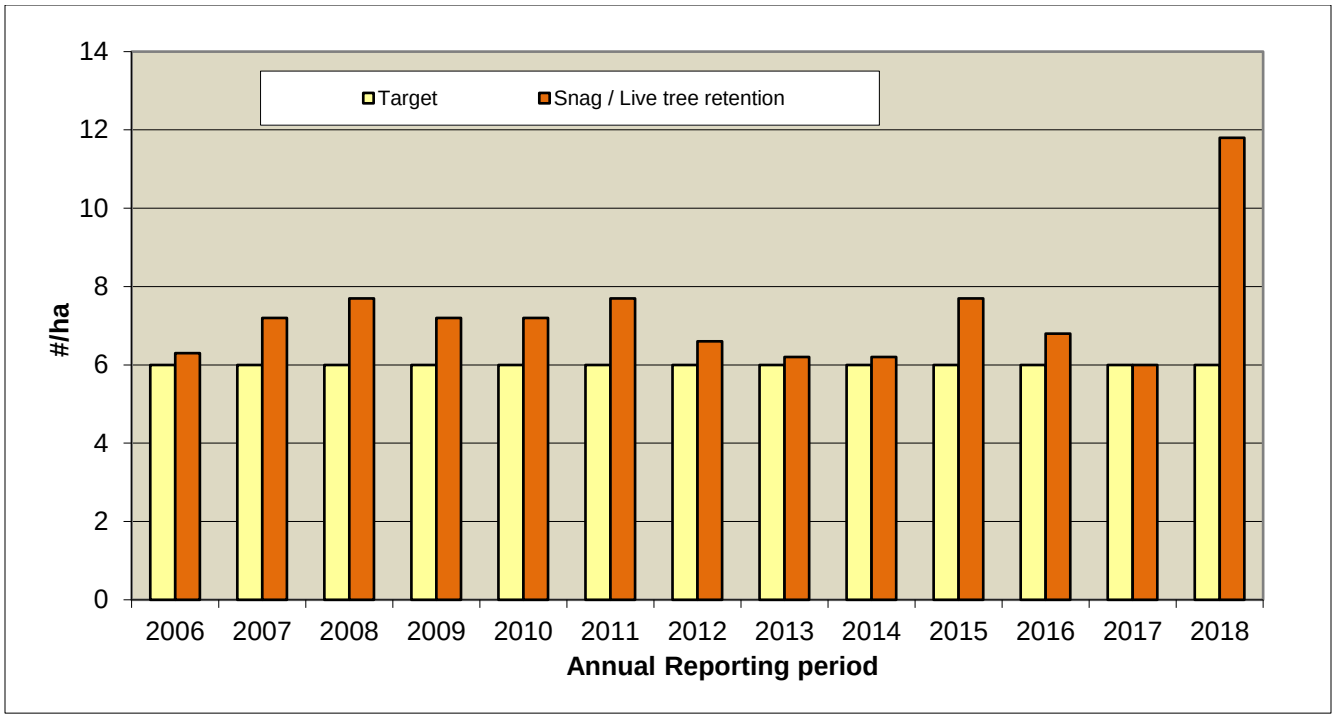

Figure 2. Results for Snag/Cavity site indicator (2006-2018)

'Stubs' (*in-situ* remaining 3-5m base of trees cut off during logging operations) have made up the majority of vertical habitat elements tracked for this indicator in past reports. Stubs are still created, often along drainages and boundaries, where they serve an additional important role of delineating important features and not posing any overhead hazard. However, there has been a strong trend towards more full-tree retention, in large part due to the higher value they represent for both migratory and non-migratory birds, as well as addressing concerns raised by First Nations. Operators are encouraged to include obviously defective stems in retention groups, as these have lowest timber value and high wildlife value (eg. aspen with visible conks provide good substrate for cavity excavation). Stems retained in small groups have shown to have a lower risk of wind damage than single stems. This is especially so for spruce, which is much more likely to endure on post-logged sites if included with a group of aspen. Figure 3 shows an example of a small group of live aspen and spruce retained during harvesting operations.

Figure 3: Example of Small Group of Live Tree Retention

Figure 3 shows an example of a small group live tree retention within the Inga Lake operating area. Note intermediate spruce, which have a much higher chance of resisting winds than they would without the aspen stems present.

Target Achieved	
✓ **Yes**	**No**

REVISIONS

There are no revisions planned for this indicator.

3.6. COARSE WOODY DEBRIS VOLUME

Indicator Statement	Target Statement
Average retention level of Coarse Woody Debris volume/ (m^3/ha) on blocks logged in the DFA between December 1, 2016 and November 30, 2022.	Average retention level over the DFA will be at least 46 m^3/ha (50% of average pre-harvest volume) on harvested blocks assessed between December 1, 2016 and November 30, 2022.
SFM Objective: Maintain a natural range of variability in ecosystem function, composition and structure which allows ecosystems to recover from disturbance and stress. Suitable habitat elements for indicator species.	
Linkage to *FSJPPR*: For the purposes of Section 29(2) of the *FSJPPR* the applicable performance standard is specified by this indicator statement, target statement and acceptable variance. For the purposes of Section 42 of the *FSJPPR* this indicator statement, target and acceptable variance will be one of the indicators used to determine if forest practices are consistent with the Patch Size, Seral Stage and Adjacency Landscape Level Strategy	

Acceptable Variance:

Coarse Woody Debris (CWD) plots will not be assessed for the purposes of this indicator if they fall in blocks where management of non-timber resource values was identified as an overriding priority that was not compatible with CWD retention (e.g. community pastures, etc.).

CURRENT STATUS AND COMMENTS

For the purposes of this indicator, coarse woody debris is measured along two 24m transects originating at predetermined points in harvested areas, following established provincial procedures. Figure 4 is included to provide an example of one such transect.

Ten CWD plots were completed in September of 2018. Post-harvest CWD levels from these samples averaged 94 m^3/ha. There are 6 coarse woody debris plots scheduled for completion on blocks harvested in the current reporting period (2019).

The participants exceeded the minimum target for this indicator for the period of April 2018 - March 2019 and the average retention targets for the period December 1, 2016 and November 30, 2022 calculated from available plot information is 81 m3/ha.

Figure 4: Example of a coarse woody debris measurement transect (Block 01056)

Target Achieved	
✓ Yes	No

REVISIONS

There are no revisions proposed for this indicator.

3.7. RIPARIAN RESERVES

Indicator Statement	Target Statement
The number of non-compliances to riparian reserve zone standards.	No non-compliances to riparian reserve zone standards.
SFM Objective: Suitable habitat elements for indicator species. Maintenance of water quality.	
Linkage to FSJPPR: For the purposes of Section 42 of the *FSJPPR* this indicator statement, target and acceptable variance will be one of the indicators used to determine if forest practices are consistent with the Riparian Management Landscape Level Strategy. For the purposes of Section 35(5), Section 28(1) (b)(i)(A) of the *FSJPPR* may be effected by the application of this Riparian Management Landscape Level Strategy, specifically the acceptable variance for this indicator.	

Acceptable Variance:

No variances, unless authorized by the district manager.

CURRENT STATUS AND COMMENTS

A review of BCTS compliance issues from April 1, 2018 to March 31, 2019 indicated that BCTS had no non-compliances to riparian reserve zone standards. BCTS achieved the target for this indicator.

A review of Canfor's compliance issues occurring between April 1, 2018 and March 31, 2019 indicated no non-compliances to riparian reserve zone standards. The licensee participants achieved the target for this indicator.

The participants' activities are consistent with the target and acceptable variance for the indicator.

Target Achieved	
✓ **Yes**	**No**

REVISIONS

There are no proposed revisions to this indicator or the target.

3.8. SHRUBS

Indicator Statement	Target Statement
The proportion of shrub habitat (%) by Landscape Unit.	Each landscape unit will meet or exceed the baseline target (%) proportion of shrub habitat.
SFM Objective: Suitable habitat elements for indicator species	
Linkage to FSJPPR: N/A	

Acceptable Variance:

Acceptable variance is ± 20% of the baseline target.

CURRENT STATUS AND COMMENTS

This indicator is monitored at each new SFMP, using the most up to date vegetation resource inventory data. Table 7 shows the shrub condition projected through 2025, accounting for harvesting of all blocks presented in the FOS #3. The "2017 Shrub Area" includes shrub-type inventory polygons plus harvested areas <20yrs old.

Targets were established for this indicator by reviewing the amount of naturally occurring shrub areas by landscape unit, as well as forested areas less than 20 years old. Landscape units with low levels of naturally occurring shrubs generally have lower targets than areas with higher levels of shrubs. The targets reflect the same proportionate change as in the 2004 SFMP.

Table 7: Shrub Habitat Current, FOS Condition and Targets

LANDSCAPE UNIT	LU Net Area (ha)	2017 Shrub Area (ha)	2017 Shrub Area % of LU	Future Shrub Area (ha)	Future Shrub Area % of LU	Baseline Target
Blueberry	588,013	123,191	21%	95,089	16%	8%
Crying Girl	67,180	7,338	11%	4,349	7%	8%
Graham	334,884	58,170	17%	57,973	17%	15%
Halfway	196,226	28,996	15%	25,803	13%	6%
Kahntah	749,236	185,981	25%	184,568	25%	21%
Kobes	136,697	27,328	20%	23,475	17%	8%
Lower Beatton	154,954	20,622	13%	16,666	11%	7%
Milligan	454,005	75,996	17%	74,999	17%	13%
Sikanni	312,129	38,257	12%	38,257	12%	6%
Tommy Lakes	705,760	88,772	13%	77,247	11%	8%
Trutch	436,582	33,042	8%	31,860	7%	6%
Grand Total	**4,135,665**	**687,693**		**630,286**		

The future analysis of Change Monitoring Inventory (CMI) plots – after remeasurement - will permit comparisons of shrub composition and abundance over time. The total number of CMI plots established in the Pilot Project area to date is 151.

Table 7 shows that the participants have met or exceeded the baseline target in all LU's except Crying Girl but the % future shrub area % is within the approved variance.

The participants are consistent with the target for this indicator.

Target Achieved	
✓ **Yes**	**No**

REVISIONS

There are no revisions planned for this indicator.

3.9. WILDLIFE TREE PATCHES

Indicator Statement	Target Statement
Cumulative Wildlife Tree Patch percentage in blocks harvested under the *FSJPPR* in each Landscape Unit.	Cumulative Wildlife Tree Patch % will meet or exceed the minimum target in each LU Landscape Unit — WTP % Blueberry 9% Halfway 6% Kahntah 5% Kobes 8% Lower Beatton 3% Milligan 4% Tommy Lakes 8% Trutch 5% Sikanni 4% Graham 4% Crying Girl 3%
SFM Objectives: Suitable habitat elements for indicator species. Maintain a natural range of variability in ecosystem function, composition, and structure which allows ecosystems to recover from disturbance and stress.	
Linkage to FSJPPR: For the purposes of 29(1) of the *FSJPPR* the applicable performance standard is specified by this indicator statement, target statement and acceptable variance. For the purposes of Section 42 of the *FSJPPR* this indicator statement, target and acceptable variance will be one of the indicators used to determine if forest practices are consistent with the Patch Size, Seral Stage and Adjacency Landscape Level Strategy	

Acceptable Variance:

Aggregate Wildlife Tree Patch (WTP) percentages will only apply if 200 hectares or more has been harvested under the *FSJPPR* in a landscape unit.

CURRENT STATUS AND COMMENTS

Table 8 indicates the amount of harvest area and proportion of Wildlife Tree Patches by each Landscape Unit where the harvest start date is between April 1, 2018 and March 31, 2019.

Table 8: Harvest Area and Proportion of WTPs by Landscape Unit (2018-2019)

LU	Gross Block Area (ha)	WTP Area (ha)	WTP %	Target %
Blueberry	2,871.1	291.6	10.2%	9
Halfway	784.0	90.0	11.5%	6
Kahntah	470.5	51.5	10.9%	5
Kobes	1,174.8	122.0	10.4%	8
Lower Beatton	41.6	5.3	12.7%	3
Milligan	0.0	0.0	n/a	4
Tommy Lakes	1,905.2	163.4	8.6%	8
Trutch	0.0	0.0	n/a	5
Sikanni	0.0	0.0	n/a	4
Graham	0.0	0.0	n/a	4
Crying Girl	0.0	0.0	n/a	3
Grand Total:	**7,247.2**	**723.8**	**10.0%**	

No harvesting took place in the Milligan, Trutch, Sikanni, Graham, and Crying Girl LU.

The participants have met the target minimum WTP % for all Landscape Units where logging has occurred.

Target Achieved	
✓ **Yes**	**No**

REVISIONS

A revision to the target retention levels is noted in SFMP #3 and was implemented in the 2018-19 reporting year.

3.10. NOXIOUS WEED CONTENT AND INVASIVE PLANT CONTENT

Indicator Statement	Target Statement
The % prohibited and primary noxious weeds, and known invasive weed species of concern, in seed mix analyses.	Seed mix analyses will have 0% content of prohibited and primary noxious weeds, and known invasive weed species of concern, as identified in the most current publication of "Listing of Invasive Plants" available from the Peace River Regional District .
SFM Objective: Suitable habitat elements for indicator species	
Linkage to FSJPPR: For the purposes of Section 42 of the *FSJPPR* this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the Range Management Landscape Level Strategy	

Acceptable Variance:

The primary objective of seeding is to control erosion to protect water resources, with a secondary objective to discourage the establishment of invasive weeds. In some isolated instances suitable seed mixes having appropriate government approved analysis may not be available in a timely manner. If seeding must urgently be done to control erosion, it may, in rare instances, be necessary to proceed without assurances of the seed source being free of noxious weeds. A maximum of one exception annually will be allowable to provide for this eventuality. In the event of an exception, the participant will subsequently inspect the seeded areas to assess weed concerns, and will develop and document appropriate action plans to eliminate prohibited and primary noxious weeds, in consultation with the appropriate government agencies.

CURRENT STATUS AND COMMENTS

For all broadcast seeding on road reclamation areas completed by the licensee participants during the April 1, 2018 – March 31, 2019 reporting period, the review of our seed tags and seed analysis certificates verified that our seed mix has a 0% content of prohibited and primary noxious weeds, and known invasive weed species of concern, as identified in the Sustainable Forest Management Plan.

The participants are in conformance to the target for this indicator.

Target Achieved	
✓ **Yes**	**No**

REVISIONS

A revision to the target statement and implementation of this indicator will be implemented in the 2019-2020 reporting year. Appendix 8: Listing of Invasive Plants in the Fort St John Pilot Project Sustainable Forest Management Plan #3 (please refer to page 455 of SFMP #3) will be removed and instead the primary sources used to comprise Appendix 8 will be listed within the noxious weed indicator 6.10 Plants in the Fort St John Pilot Project Sustainable Forest Management Plan #3 (please refer to page 141 of SFMP #3).

3.11. SPECIES AT RISK STAND LEVEL MANAGEMENT GUIDELINES

Indicator Statement	Target Statement
The percentage of SLP's prepared annually for 'effected' cutblocks that incorporate one or more stand level species at risk management guidelines.	100% of SLP's prepared annually for effected cutblocks will incorporate one or more stand level species at risk management guidelines.
SFM Objective: Maintain habitats for species at risk.	
Linkage to FSJPPR: N/A	

Acceptable Variance:

A 15% variance below the target will be acceptable. (i.e. 85% or more of SLP's in effected cutblocks must have one or more Stand Level Management Guidelines (SLMG) applied). The variance from 100% to 85% of effected SLPs would only be invoked in situations where forest health, worker or public safety, or operational concerns make implementation of the stand level management guidelines impracticable. In these situations a rationale detailing the reasons for not implementing stand level management guidelines will be included in the effected SLPs.

CURRENT STATUS AND COMMENTS

Between April 1, 2018 and March 31, 2019, 32 Site Level Plans (SLP's) were prepared by Canfor in cutblocks where Stand Level Management Guidelines for species and sites of management concern were required to be specified. One or more guidelines were applied in all 32 of these plans.

During the reporting period of April 1, 2018 and March 31, 2019, BCTS completed the development of Site Level Plans on 63 blocks where Stand Level Management Guidelines for species and sites of management concern were required to be specified. One or more guidelines were applied in all 63 of these plans.

100 % of all Site Level Plans where Stand Level Management Guidelines were required incorporated at least 1 Guideline; therefore the participants achieved the target for this indicator.

Figure 5: Typical habitat favoured by Connecticut Warbler (Oporornis agilis) in the Peace River Region

(photo by A. Tyrrell)

Target Achieved	
✓ **Yes**	**No**

REVISIONS

There are no revisions planned for this indicator.

3.12. FOREST WORKERS' SAFETY[5]

Indicator Statement	Target Statement
Implementation and maintenance of certified safety program.	Each managing Participant will implement and maintain a certified safety program.
SFM Objectives: Provide a safe work environment for DFA forestry workers and the public.	
Linkage to FSJPPR: N/A	

Acceptable Variance:
None

CURRENT STATUS AND COMMENTS
Currently the Managing Participants (B.C.T.S and Canfor) are certified to the B.C. Forest Safety Council S.A.F.E. Companies Standard. Surveillance audits are completed at regular intervals to ensure the managing participants safety programs continue to meet the S.A.F.E. Companies safety criteria, and to identify where there may be opportunities for improving the safety programs.

The Managing Participants each maintained their individual certifications to the B.C. Forest Safety Council S.A.F.E. Companies Standard during the 2018-19 reporting year.

The participants have achieved the target for this indicator.

Target Achieved	
✓ **Yes**	**No**

REVISIONS
No revisions are anticipated at this time.

[5] New indicator in SFMP #2. Indicator # 12 (Caribou) in previous SFMP #1 deleted due to impending implementation of WHA and UWR areas for boreal caribou.

3.13. SEED USE

Indicator Statement	Target Statement
The percentage of seedlings & vegetative material used and planted in accordance with the Chief Forester's Standards for Seed Use (Nov.20, 2004), as amended from time to time.[6]	100% of seedlings and vegetative material will be used and planted in accordance with the Chief Forester's Standards for Seed Use (Nov.20, 2004), as amended from time to time.
SFM Objectives: Conserve genetic diversity of tree stock. Suitable habitat elements for indicator species.	
Linkage to *FSJPPR*: For the purposes of Section 42 of the *FSJPPR* this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the Reforestation Landscape Level Strategy. For the purposes of Section 35(5) the indicator this indicator statement, target statement and acceptable variance will replace the requirements of Schedule F Section 99 (Seed Use).	

Acceptable Variance:

As per Section 8 Transfer Limits in the Chief Forester's Standards for Seed Use, no less than 95% of the combined total of the number of seedlings and vegetative material planted during each fiscal year within the DFA will comply with the transfer requirements of section 8.2 through 8.7, of those standards. As the standards are amended from time to time, the allowable variance will change consistent with any amendments.

CURRENT STATUS AND COMMENTS

BCTS

1,893,321 seedlings were planted within the reporting period. All seedlings were planted in accordance with the standard.

Licensee Participants (Canfor, Chetwynd Mechanical Pulp, CRL, Dunne-za, Louisiana-Pacific)

4,690,545 seedlings were planted within the reporting period. All seedlings were planted in accordance with the standard.

Combined

The total number of seedlings planted was 6,583,866. Therefore 6,583,866 were planted in accordance with the standard

Target Achieved	
✓ **Yes**	**No**

REVISIONS

No revisions are anticipated at this time.

[6] Revisions to this indicator initially made in 2005/2006 Annual -Report

3.14. ASPEN REGENERATION

Indicator Statement	Target Statement
% Natural Regeneration of aspen	100% natural regeneration for deciduous
SFM Objectives: Conserve genetic diversity of tree stock**.**	
Linkage to FSJPPR: N/A	

Acceptable Variance:

A maximum of 10% of the area prescribed for deciduous regeneration may be restocked with deciduous vegetative propagules or seedlings (e.g. 90% minimum natural regeneration of deciduous) in accordance with the Chief Foresters Standards for Seed Use, as amended from time to time. In such cases, records must be kept of vegetative lots used and locations where vegetative lots are planted.

CURRENT STATUS AND COMMENTS

All Participants have relied on 100% natural regeneration for aspen stocking in the 2018-2019 reporting period.

Target Achieved	
✓ **Yes**	**No**

REVISIONS

No revisions are anticipated at this time.

3.15. CLASS A PARKS, ECOLOGICAL RESERVES AND LRMP DESIGNATED PROTECTED AREAS

Indicator Statement	Target Statement
Hectares of Forestry Related Harvesting or Road Construction within Class A parks, protected areas, ecological reserves and LRMP designated protected areas.	Zero hectares of forestry related harvesting or road construction within Class A parks, protected areas, ecological reserves or LRMP designated protected areas.
SFM Objective: To have representative areas of naturally occurring and important ecosystems, and rare physical environments protected at both the broad and site specific levels across or adjacent to the DFA.	
Linkage to FSJPPR: N/A	

Acceptable Variance:

No variance, other than government direction requiring the forest industry to conduct operations in these areas.

CURRENT STATUS AND COMMENTS

No forestry related harvesting or road construction has occurred, nor was any harvesting planned in FOS #3, in Class A Parks, Ecological Reserves and Land and Resource Management Plan (LRMP) Designated Protected Areas. The participants have achieved the target for this indicator.

Digital boundaries of all known protected areas were used in the development of the FOS #3 and to ensure proposed blocks or roads did not fall within any of the protected areas.

Target Achieved	
✓ **Yes**	**No**

REVISIONS

There are no revisions planned for this indicator.

3.16. UNGULATE WINTER RANGES, WILDLIFE HABITAT AREAS AND MKMA

Indicator Statement	Target Statement
Proportion of activities consistent with objectives of the Muskwa-Kechika Management Area (MKMA) and general wildlife measures for Ungulate Winter Ranges (UWR) and Wildlife Habitat Areas (WHA).	All Pilot Participant activities will be consistent with the objectives of the MKMA and the general wildlife measures for Ungulate Winter Ranges and Wildlife Habitat Areas.
SFM Objective: To have representative areas of naturally occurring and important ecosystems, and rare physical environments protected at both the broad and site specific levels across or adjacent to the DFA.	
Linkage to FSJPPR: N/A	

Acceptable Variance:

No variances unless authorized by the Ministry of Environment and Climate Change Strategy (MOE).

CURRENT STATUS AND COMMENTS

There are currently 45 approved Wildlife Habitat Area's (WHA's), and 3 Ungulate Winter Ranges (UWR's) wholly or partially within the Peace Forest District. General Wildlife Measures, the legal management regimes that dictate operational practices in these areas, have been developed and enacted by government. The participants will follow the General Wildlife Measures for each specific area when operations are proposed within these areas. For the reporting period, there were no activities conducted within approved WHA's or UWR's.

The WHA and UWR areas for Caribou (Boreal ecotype) in the north and eastern portions of the Timber Supply Area will be revised by the provincial government. The participants are honouring the boreal caribou WHA and UWR areas by applying the General Wildlife Measures in the UWR's and avoiding operational activities in the WHA's.

The Government of Canada (Canadian Wildlife Service) is coordinating a national recovery program for the boreal caribou, but it is not yet known what implications that holds for operations within the DFA, beyond the impacts of the provincial set-asides (WHA and UWR designations).

Table 9 summarizes harvest activities within grand parented blocks within the Muskwa-Kechika Management Area (MKMA) up to March 31, 2019.

Table 9: Harvest Activities in the MKMA

Licensee	Licence	Timber Mark	Block ID	Gross Area	Merch Area	Harvest Start Date	Harvest Completion Date	System[7]
CANFOR	A18154	EK8335	20007	57.6	52.0	1/19/2005	2/14/2006	CCRES
CANFOR	A18154	EK8335	20008	101.4	88.7	1/19/2005	3/31/2006	CCRES
CANFOR	A18154	EK8335	20060	75.1	68.5	1/5/2005	3/4/2005	CCRES
Total				**234.1**	**209.2**			

[7] CCRES – Clear Cut with Reserves

The total cumulative area logged to date within blocks in the MKMA is 209.2 ha. All harvesting operations within the MKMA have been consistent with previously approved Forest Development Plans, as well as provisions within the MKMA Act that grandparent previously approved blocks.

Harvesting within the MKMA that is proposed within the FOS #3 is currently limited to previously grand parented blocks within the MKMA, and is therefore consistent with the objectives of the MKMA. There were no activities completed within the MKMA during this reporting period.

Target Achieved	
✓ **Yes**	**No**

REVISIONS

There are no proposed revisions to this indicator or target.

3.17. REPRESENTATIVE EXAMPLES OF ECOSYSTEMS

Indicator Statement	Target Statement
Percentage of area of forest stands in an unmanaged condition, by leading species, by NDU.	100% of baseline targets for forested stands in an unmanaged condition, by leading species, by NDU will be met.
SFM Objective: To have representative areas of naturally occurring and important ecosystems, and rare physical environments protected at both the broad and site-specific levels across or adjacent to the DFA.	
Linkage to FSJPPR: N/A	

Acceptable Variance:

10 ha or 10% of area, whichever is greater for Leading Species by NDU that have an uncommon distribution (as noted in Table 23 of SFMP #3) if required for access purposes.

No acceptable variance for Leading Species by NDU that are not identified as uncommon in Table 23 of SFMP #3.

CURRENT STATUS AND COMMENTS

An assessment of the future condition of this indicator was completed to confirm consistency of FOS #3 with SFMP #3. The targets specified in SFMP #1 and SFMP #2 for proportion of area in forest stands by leading species in an unmanaged condition were carried over to SFMP #3 without any revision. The assessment of future condition for this indicator is presented in Table 11 and indicates the future status of forest stands by leading species and NDU for the Non-Timber Harvesting Land Base (NHLB). This reflects the stand types that will exist in an unmanaged state. FOS blocks have been identified within the portion of the land base that is considered as the timber harvesting land base.

Where harvesting is proposed, the SFMP requires an assessment of those NDU species combinations considered unique, highlighted in yellow in Table 10, to ensure that targets are not compromised.

A re-analysis of this indicator is required after each Timber Supply Review (TSR) is completed. Data collection for the next TSR for the DFA commenced in the summer of 2013 and the TSR

was released in May, 2018. If a significant amount of block area is added to the Forest Operations Schedule, through an amendment prior to the completion of the TSR, the analysis for this indicator will be redone to ensure ongoing conformance. So far, the results are up to date and have incorporated the FOS340 data. The above would likely not be necessary for the Boreal Plains NDU due to the amount of area already in the NHLB.

Table 10 indicates the current status of forest stands by leading species and NDU for the Non-Timber Harvesting Land Base (NHLB). This reflects the stand types that exist in an unmanaged state. FOS blocks have been identified within the portion of the landbase that is considered as the timber harvesting landbase.

Where harvesting is proposed, the SFMP requires an assessment of those NDU species combinations highlighted in yellow in the following table to ensure that targets are not compromised by the harvesting.

Table 10: Proportion of Leading Species by NDU Unmanaged Current State

Natural Disturbance Unit	Sub NDU	Leading Species	Total Forested Area (ha)	Unmanaged Forests		
				Non-THLB*	% Non-THLB*	Baseline Target %
Boreal Plains Upland		AC	24921	15946	64%	12%
		AT	564457	294148	52%	12%
		BL	2154	1774	82%	12%
		EP	62327	51552	83%	12%
		LT	42067	41077	98%	12%
		PL	428736	229106	53%	12%
		SB	1344989	1216928	90%	12%
		SW	251908	150734	60%	12%
		SX	136623	55832	41%	12%
Boreal Plains Upland Total			2858182	2057096	72%	
Boreal Foothills	Mountain	AC	104	93	90%	100%
		AT	2974	2431	82%	12%
		BL	14016	13422	96%	12%
		EP	30	26	86%	100%
		PL	20627	8933	43%	12%
		SB	1005	630	63%	12%
		SW	109942	73865	67%	12%
		SX	88	54	61%	12%
	Mountain Total		148785	99452	67%	
	Valley	AC	151	101	67%	80%
		AT	2837	2062	73%	12%
		BL	13	7	53%	0%
		EP	2	0	0%	100%
		PL	9766	3897	40%	12%
		SB	1699	1216	72%	12%
		SW	19930	9687	49%	12%
		SX	31	17	53%	12%
	Valley Total		34429	16985	49%	

Natural Disturbance Unit	Sub NDU	Leading Species	Total Forested Area (ha)	Unmanaged Forests		
				Non-THLB*	% Non-THLB*	Baseline Target %
Northern Boreal Mountains		AC	203	175	86%	70%
		AT	6893	5992	87%	12%
		BL	11888	10801	91%	12%
		PL	20005	13290	66%	12%
		SB	2914	2431	83%	12%
		SW	18688	15095	81%	12%
		SX	121095	102284	84%	12%
Northern Boreal Mountains Total			181687	150068	83%	
Omineca	Mountain	AC	2	2	100%	100%
		AT	528	469	89%	50%
		BL	17897	17513	98%	12%
		PL	5239	3501	67%	12%
		SB	271	236	87%	100%
		SW	61294	54155	88%	12%
	Mountains Total		85230	75876	89%	
	Valley	AC	32	30	95%	100%
		AT	598	533	89%	50%
		BL	11	11	100%	100%
		PL	2700	1784	66%	12%
		SB	351	307	88%	12%
		SW	6873	5165	75%	12%
	Valley Total		10565	7831	74%	
Grand Total			3,318,877	2,407,309	73%	

* THLB – Timber Harvesting Land Base

The majority of future proposed harvesting under FOS #3 is planned to occur in the Boreal Plains NDU. The analysis completed reports on the condition expected as of March 31, 2025 and assumes that all blocks presented in the FOS #3 will be harvested by that date. The results show that the majority of the baseline targets for retention of a representative sample of forest stands in an unmanaged condition are achieved in the NHLB. Several of the species / NDU combinations do not have sufficient area within the NHLB to meet the target. However in none of the cases is there any area identified for harvesting, and therefore a 'managed' designation does not apply.

Table 11: Proportion of Leading Species by NDU Unmanaged Future State

Natural Disturbance Unit	Sub NDU	Leading Species	Total Forested Area (ha)	Unmanaged Forests		
				Future Non-THLB*	Future % THLB*	Baseline Target %
Boreal Plains Upland		AC	24921	15,946	64%	12%
		AT	564457	294,147	52%	12%
		BL	2154	1,774	82%	12%
		EP	62327	51,552	83%	12%
		LT	42067	41,077	98%	12%
		PL	428736	229,095	53%	12%
		SB	1344989	1,216,916	90%	12%
		SW	251908	150,731	60%	12%
		SX	136623	55,831	41%	12%
Boreal Plains Upland Total			2858182	2,057,069	72%	
Boreal Foothills	Mountain	AC	104	93	90%	100%
		AT	2974	2,431	82%	12%
		BL	14016	13,422	96%	12%
		EP	30	26	86%	100%
		PL	20627	8,933	43%	12%
		SB	1005	630	63%	12%
		SW	109942	73,865	67%	12%
		SX	88	54	61%	12%
	Mountain Total		148785	99,452	67%	
	Valley	AC	151	101	67%	80%
		AT	2837	2,062	73%	12%
		BL	13	7	53%	0%
		EP	2	0	2%	100%
		PL	9766	3,897	40%	12%
		SB	1699	1,216	72%	12%
		SW	19930	9,687	49%	12%
		SX	31	17	53%	12%
	Valley Total		34429	16,985	49%	

Natural Disturbance Unit	Sub NDU	Leading Species	Total Forested Area (ha)	Unmanaged Forests		
				Future Non-THLB*	Future % THLB*	Baseline Target %
Northern Boreal Mountains		AC	203	175	86%	70%
		AT	6893	5,992	87%	12%
		BL	11888	10,801	91%	12%
		PL	20005	13,290	66%	12%
		SB	2914	2,431	83%	12%
		SW	18688	15,095	81%	12%
		SX	121095	102,284	84%	12%
Northern Boreal Mountains Total			181687	150,068	83%	
Omineca	Mountain	AC	2	2	100%	100%
		AT	528	469	89%	50%
		BL	17897	17,513	98%	12%
		PL	5239	3,501	67%	12%
		SB	271	236	87%	12%
		SW	61294	54,155	88%	100%
	Mountains Total		85230	75,876	89%	
	Valley	AC	32	30	95%	100%
		AT	598	533	89%	50%
		BL	11	11	100%	100%
		PL	2700	1784	66%	12%
		SB	351	307	88%	12%
		SW	6873	5,165	75%	12%
	Valley Total		10565	7,831	74%	
Grand Total			3,318,877	2,407,281	72%	

* THLB – Timber Harvesting Land Base

The table indicates that 100% of the baseline targets for retention of a representative sample of forest stands in an unmanaged condition is achieved for all NDUs, including the 'uncommon' associations, either through the identified NHLB area or through avoidance of harvest planning. FOS #3 does not compromise the performance to the baseline targets, and therefore FOS #3 is consistent with this indicator.

Target Achieved	
✓ **Yes**	**No**

REVISIONS

No revisions planned for this indicator

3.18. GRAHAM HARVEST TIMING

Indicator Statement	Target Statement
The number of clusters in the Graham IRM[8] Plan area where active operational harvesting is concurrently occurring.	Operational harvesting within the Graham IRM Plan area will be constrained to no more than one 'cluster' of cutblocks at any one .time.
SFM Objective: Provide opportunities for a feasible mix of timber, recreational activities and non-timber commercial activities. Management strategies address important values in SMZ[9] areas.	
Linkage to FSJPPR: For the purposes of Section 42 of the *FSJPPR* this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the Timber Harvesting Landscape Level Strategy.	

Acceptable Variance:

Operational harvesting (i.e. falling and/or skidding of timber, *excluding predevelopment of road right of ways*) in more than one cluster at a time may occur concurrently, if required to address significant forest health concerns (e.g. Mountain Pine Beetle infestations, wildfire), with the authorization of the MFLNRORD.

CURRENT STATUS AND COMMENTS

No harvesting occurred in any part of the Graham IRM plan area during the 2018-19 reporting period covered by this Annual Report.

The Forest Operations Schedule Section 3.1, submitted to MFLNRORD in October 2017, identifies the blocks that still remain unharvested in the FOS in Graham clusters 5, 6 and 6a.

The Graham IRM Area harvest sequencing is also noted in Table 17 of the FOS. No harvesting is currently planned in the Graham IRM area. The harvest sequencing presented in the FOS is consistent with achieving the target for this indicator.

Target Achieved	
✓ **Yes**	**No**

REVISIONS

Revisions to this indicator will be considered over the next 1-2 years in light of the SFMP #3 approval letter.

[8] IRM – Integrated Resource Management
[9] SMZ – Special Management Zone

3.19. GRAHAM MERCH AREA HARVESTED

Indicator Statement	Target Statement
Cumulative merchantable area (hectares) within blocks harvested within the Graham River IRM Plan area since 1997.	The cumulative merchantable area (hectares) within harvested blocks will not exceed the planned maximum cumulative harvest areas as measured at the end of each time period. Period # 2 (ending April 2012): 6569 ha Period # 3 (ending April 2017): 9355 ha Period #4 (ending April 2022): 10,858 ha
SFM Objective: Provide opportunities for a feasible mix of timber, recreational activities and non-timber commercial activities. Management strategies address important values in SMZ areas.	
Linkage to FSJPPR: For the purposes of Section 42 of the *FSJPPR* this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the Timber Harvesting Landscape Level Strategy.	

Acceptable Variance:

Operations may only exceed the target in the event of urgent forest health concerns that necessitate increased harvest rates, and after reviewing with the Public Advisory Group, and with the approval of the government.

CURRENT STATUS AND COMMENTS

No harvesting has taken place within the Graham River IRM Plan area during the annual reporting period of April 1, 2018-March 31, 2019.

Table 12: Graham River IRM Plan- Cluster Area and Timing Schedule (Revised Oct 2006)

Definitions:

Total Area:	The total size of a Cluster including inoperable areas
Gross Contributing Area:	The Contributing Area (base area) for Forest Practices Code (FPC) Biodiversity calculations
IRM Net Harvest Area:	Estimated amount of Gross Operable area considered harvestable after IRM factors are taken into account
Proposed Schedule:	General timing of harvest sequence over the course of the Plan
Maximum Cumulative Merch ha	**The maximum cumulative merch hectares (all previous periods) allowed in cutblocks to period end (indicator)**

Cluster #	Resource Management Zone	Total Area (ha)	Gross Contrib. Area (ha)	Est. IRM Net Harvest Area (1) (ha)	Est. Proportion of Cluster Proposed for Harvest	Proposed Harvest Schedule Start-End	Harvest Period	# of Years	Maximum Cumulative Merch ha within blocks to be harvested
1	Graham-South	1,946	1,922	**706.0**	36.3%	June 1998 July 1999			
17	Graham-South	627	620	**294.0**	46.0%	Nov. 1999 April 2000			
2	Graham-South	2,208	2,085	**312.9**	14.2%	July 2000 April 2002			
3	Crying Girl	2,439	2,115	**620.5**	25.4%	Nov 2002 April 2003			
4	Graham-South	3,975	*3,504*	**976.6**	29.2%	**July 2003** April 2007			
Sub-total		11,195	*10,246*	**2910.0**		1998 2007	Period 1	9	**3638**
5	Crying Girl	2,228	2,181	**748.6**	33.0%	**April 2007** Nov. 2008			
6a	Graham-South	2,508	*2,570*	**1078.8**	35.0%	**Nov. 2008** Nov. 2009			
6b	Graham-South	884	775	**257.5**	29.0%	**Nov. 2009** April 2010			
6c	Graham-South	726	541	**260.0**	35.0%	**April 2010** April 2012			
Sub-total		6,346	*5,665*	**2344.9**		2007 2012	Period 2	5	**6569**

Definitions:

Total Area:	The total size of a Cluster including inoperable areas
Gross Contributing Area:	The Contributing Area (base area) for Forest Practices Code (FPC) Biodiversity calculations
IRM Net Harvest Area:	Estimated amount of Gross Operable area considered harvestable after IRM factors are taken into account
Proposed Schedule:	General timing of harvest sequence over the course of the Plan
Maximum Cumulative Merch ha	**The maximum cumulative merch hectares (all previous periods) allowed in cutblocks to period end (indicator)**

Cluster #	Resource Management Zone	Total Area (ha)	Gross Contrib. Area (ha)	Est. IRM Net Harvest Area (1) (ha)	Est. Proportion of Cluster Proposed for Harvest	Proposed Harvest Schedule Start-End	Harvest Period	# of Years	Maximum Cumulative Merch ha within blocks to be harvested
7	Crying Girl	1,848	1,812	**577.2**	31.0%	**April 2012** April 2013			
8a	Crying Girl	1,904	1,638	**840.0**	44.0%	**April 2013** April 2014			
8b	Crying Girl	2,184	1,877	**812.3**	37.0%	**April 2013** April 2017			
Sub-total		5,936	5,327	**2229.5**		2012 2017	Period 3	5	**9355**
9	Crying Girl	952	840	**291.0**	30.0%	**April 2017** Nov. 2017			
10	Crying Girl	966	788	**317.0**	32.0%	**Nov. 2017** April 2018			
11	Graham-South	1,768	1,717	**594.0**	33.0%	**April 2018**-April 2022			
Sub-total		3,686	3,345	**1202.0**		2017 2022	Period 4	5	**10858**
12	Graham-North	3,439	3,249	**1289.0**	37.0%	**April 2022** April 2024			
13	Crying Girl	2,493	2,359	**745.0**	29.0%	**April 2024** April 2027			
Sub-total		5,932	5,608	**2034.0**		2022 2027	Period 5	5	**13400**
14	Crying Girl	2,643	2,583	**1034.0**	39.0%	**April 2027** April 2028			
15	Graham-North	3,258	2,666	**1072.0**	32.0%	**April 2028** April 2032			
Sub-total		5,901	5,249	**2106.0**		2027 2032	Period 6	5	**16033**
16	Graham-North	2,108	1,917	**903.0**	42.0%	**Apr. 2032** April 2035			
Sub-total		2,108	1,917	**903.0**		2032 2035	Period 7	3	**17162**
18	Graham-North	1,341	1,217	**468.0**	34.0%	**Nov. 2035** Nov. 2037			
19	Graham-North	3,121	2,782	**1022.0**	32.0%	**Nov. 2037** April 2040			
Sub-total		4,462	3,999	**1490.0**		2036 2040	Period 8	5	**19024.**
20	Crying Girl	1,317	1,188	**527.0**	40.0%	**Nov. 2041** April 2045			
Sub-total		1,317	1,188	**527.0**		2042 2045	Period 9	5	**19683**
Totals (Cluster only)		46883	42946	**15746.4**			Period 1-9	47.0	**19683**
D. Total Plan Area		**198,140**	145,053	**15,746**	**8%**				**10%**

April 1, 2007 marked the completion of Harvest Period #1 for this indicator, which covers all logging in the Graham plan area from June of 1998 to April 2007. The Period 1 target was 2,910.4 ha, with a variance of an allowable maximum area harvested of 3,638 ha (including the SFMP #1 allowable variance of 25% additional area). As noted in the 2009 annual report, the area harvested to the end of Harvest Period 1 was 3,515.6 ha, consistent with the acceptable range of area harvested for the first harvest period.

The second harvest period ended April 1, 2012, with a 6,569-hectare maximum cumulative harvest target. No harvesting occurred in the Graham during period 2. Therefore the total cumulative area harvested to the end of Period 2 is 3,515.6 ha (Period 1) +0 ha (Period 2) = 3515.6 ha. This is well within the maximum cumulative harvest area target of 6,569 ha for Period 2. The Participants performance for Period 2 is in conformance with this indicator.

Period 3 ran until April 1 2017, with a maximum cumulative harvest area target of 9,355 ha. No harvesting has taken place in the Graham during Period #3. Therefore, the cumulative area harvest to the end of Period 3 is 3,515.6ha. This is well within the maximum cumulative harvested area target of 9,355ha and the Participants are in conformance to this indicator.

Period 4 runs until April 1, 2022, with a maximum cumulative harvest area target of 10,858ha. No harvesting has taken place within the Graham since the commencement of period 4 and the preparation of this report. Therefore, the cumulative area harvested is 3,515.6ha. This is well within the maximum cumulative harvested area target of 10,858ha and the Participants are in conformance to this indicator.

Figure 6. Graham River operating area clustered harvest pattern, cluster 2.

(photo by D. Menzies)

Target Achieved	
✓ **Yes**	**No**

REVISIONS

Additional monitoring period was identified in SFMP #3 and is reflected in the target statement above. Revisions to this indicator will be considered over the next 1-2 years in light of the conditions in the SFMP #3 approval letter.

3.20. GRAHAM CONNECTIVITY

Indicator Statement	Target Statement
Area (hectares) harvested in cutblocks in the Graham IRM area, within the permanent alluvial and non-productive/non-commercial components of the connectivity corridors.	Zero hectares harvested within cutblocks in the permanent alluvial and non-productive/non-commercial components of the connectivity corridors.
SFM Objective: Ecosystem functions capable of supporting naturally occurring species exist within the range of natural variability. Management strategies address important values in SMZ areas.	
Linkage to FSJPPR: For the purposes of Section 42 of the *FSJPPR* this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the Timber Harvesting Landscape Level Strategy.	

Acceptable Variance:
Variances may be allowed on a site-specific basis where government approval is attained. The indicator target excludes road rights-of-way needed to cross streams.

CURRENT STATUS AND COMMENTS

The Participants completed no harvesting within the recognized corridors during the time period covered by this report – April 1, 2018 – March 31, 2019.

Target Achieved	
✓ **Yes**	**No**

REVISIONS
Revisions to this indicator will be considered over the next 1-2 years in light of the SFMP #3 approval letter.

3.21. MKMA HARVEST

Indicator Statement	Target Statement
The number of long-term harvest plans within the MKMA completed and submitted to government.	A minimum of one long-term harvest plan submitted no later than one year following government approval of a landscape unit objective under the MKMA Act, that applies to the Fort St. John TSA portion of the MKMA.
SFM Objective: Provide opportunities for a feasible mix of timber, recreational activities and non-timber commercial activities. Management strategies address important values in SMZ areas.	
Linkage to FSJPPR: For the purposes of Section 42 of the *FSJPPR* this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the Timber Harvesting Landscape Level Strategy.	

Acceptable Variance:
Timing of submission may be delayed no more than one additional year.

CURRENT STATUS AND COMMENTS
No new clustered harvest plans have been prepared for the MKMA to date.

No new harvesting is proposed in the MKMA, other than that previously approved under grandfathering provisions of the Muskwa-Kechika Management Act and Regulation, for the duration of FOS #2. Grandfathered blocks in the MKMA left unharvested during FOS #2 were dropped from FOS #3 (submitted Oct 2017). There are no unharvested blocks in the MKMA remaining in the current FOS.

Initial planning for development of an MKMA harvest plan commenced in 2006, and continued in 2007. An area has been selected for plan development. However, Landscape Unit Objectives must be developed for the area by the government, with input from the participants. Progress towards the completion of this plan has been made, however the participants must wait for Landscape Unit Objectives to be approved by government before a plan can be finalized, submitted to government for review and endorsed. The SFMP3 approval letter dated May 4, 2018, suggested that a forestry objective be established in the MKMA. As a result of the lack of approval of Landscape Unit Objectives no new clustered harvest plans have been prepared for the MKMA to date.

Target Achieved	
✓ **Yes**	**No**

REVISIONS
Revisions to this indicator will be considered over the next 1-2 years in light of the SFMP #3 approval letter.

3.22. RIVER CORRIDORS

Indicator Statement	Target Statement
The percentage of harvested areas that create openings greater than 1 hectare within 100 metres of RRZ's in identified major river corridors.	No openings exceeding 1 hectare in blocks within the major river corridors harvested under the *FSJPPR* (i.e. after November 15th, 2001).
SFM Objective: Management strategies address important values in SMZ areas.	
Linkage to FSJPPR: For the purposes of Section 42 of the *FSJPPR* this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the Riparian Management Landscape Level Strategy	

Acceptable Variance:

10% of openings may exceed 1 hectare, but no openings greater than 2 hectares, except where required otherwise by a forest health treatment plan.

CURRENT STATUS AND COMMENTS

As part of the preparation of the Forest Operations Schedule #3, a digital spatial layer was used for those portions of streams identified in the Fort St. John LRMP in the Major River Corridor Resource Management Zone. The coverage assigned a 100-metre buffer to the riparian reserve zone (RRZ) stream classification, which was based on inventory information if known, or defaulted to S1 classifications if unknown. This coverage is displayed on all 1:50,000 maps where the Major River Corridor Resource Management Zone occurs. Any blocks not previously authorized and occurring within a major river corridor were either deleted or amended prior to inclusion in the FOS.

Canfor did not conduct any block harvest or road construction activities in major river corridors, during the reporting period between April1, 2018 and March 31, 2019.

BCTS did not conduct any block harvest or road construction activities in major river corridors, during the reporting period between April1, 2018 and March 31, 2019.

Target Achieved	
✓ **Yes**	**No**

REVISIONS

There are no revisions planned for this indicator.

3.23. TOTAL NUMBER OF CONTRACTS AWARDED TO FIRST NATIONS[10]

Indicator Statement	Target Statement
Value and total number of Contracts awarded annually to First Nations.	Report the annual total value and number of contracts awarded to companies or groups owned or operated by First Nations.
SFM Objective: Provide opportunities for First Nations to participate in forest economy.	
Linkage to FSJPPR: N/A	

Acceptable Variance:
This is a reporting indicator so no variance is required.

CURRENT STATUS AND COMMENTS

During the reporting period, the licensee participants provided forty-eight contracts to companies or groups owned, operated, or sponsored by First Nations. These contracts provided First Nations with the opportunity to be involved in the local forest industry and economy by conducting slash burning and brushing projects, harvesting and hauling of timber generated by the clearing of land for various projects including the BC Hydro Site C project, oil and gas salvage and by operating the Peace Valley OSB (Oriented Strand Board) log yard. These contracts totaled $4,503,760.

During the 2018-2019 reporting period, BC Timber Sales did not have any contractual arrangements with First Nations.

Target Achieved	
✓ **Yes**	**No**

REVISIONS
No revisions are planned at this time for this indicator.

[10] New indicator in 2010 SFMP. Replaces old indicator # 23 'Visual Screening' which has been deleted

3.24. PERMANENT ACCESS STRUCTURES

Indicator Statement	Target Statement
Percentage of the total area in Managing Participants' cutblocks occupied by permanent access structures in which harvesting was completed.	A maximum of 5% of the total area in Managing Participants' cutblocks occupied by permanent access structures in which harvesting was completed, as determined on a 3 year rolling average.
SFM Objective: Sustain forest lands within our control within the Defined Forest Area. Maintain a natural range of variability in ecosystem function, composition and structure which allows ecosystems to recover from disturbance and stress.	
Linkage to *FSJPPR*: For the purposes of Section 35(5) of the *FSJPPR*, this indicator statement, target statement and acceptable variance will replace Section 30(1) of the *FSJPPR*. For the purposes of Section 42 of the *FSJPPR* this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the Access Management Landscape Level Strategy.	

Acceptable Variance:
None.

CURRENT STATUS AND COMMENTS

The current 3-year average area in permanent access structures ending March 31, 2019 is presented in Table 13. The target for this period is a maximum of 5% of total area in permanent access structures. All participants' permanent access structure values were consistent with the targets during the reporting period – Canfor 4.5%, and BCTS 2.9%

Table 13: Current 3-year Average in Permanent Access Structures (PAS)

Managing Participant	Annual Reporting Period (Ending Mar. 31st of Year Indicated)	PAS Area (ha)	Total Area (ha)	% PAS of Total Area
Canfor	2017	222.3	4942.4	4.50%
Canfor	2018	239.1	5509.8	4.34%
Canfor	2019	225.3	4871.7	4.62%
Canfor Total:[11]		**686.7**	**15323.9**	**4.48%**
BCTS	2017	150.1	5243.9	3.1%
BCTS	2018	150.3	5204.1	3.2%
BCTS	2019	141.3	4736.9	3.4%
BCTS Total:[12]		**441.7**	**15134.9**	**2.9%**
Combined Participants Totals:		**1,128.4**	**30,458.8**	**3.7%**

Both managing participants are in conformance with the target for this indicator.

[11] based on 10 metre wide road widths
[12] based on 6 metre wide road widths

Figure 7 shows the participants' performance relative to the Permanent Access Structure indicator over the last three reporting periods.

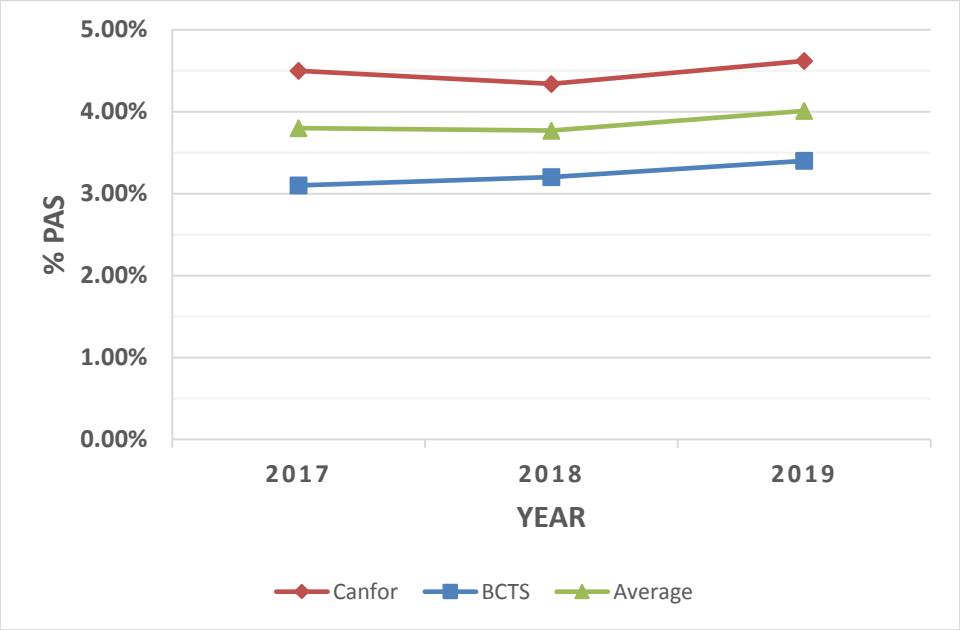

Figure 7: Three year reporting results of 3-year rolling averages of PAS % (2017-2019)

Target Achieved	
✓ **Yes**	**No**

REVISIONS

There are no revisions proposed for this indicator and target.

3.25. FOREST HEALTH

Indicator Statement	Target Statement
Percentage of silviculture obligation areas with significant detected forest health damaging agents which have treatment plans developed for them.[13]	100% of silviculture obligation areas with significant forest health damaging agents will have treatment plans developed for them, and initiated within 1 year of detection.
SFM Objective: Maintain a natural range of variability in ecosystem function, composition and structure which allows ecosystems to recover from disturbance and stress. Ecosystem functions capable of supporting naturally occurring species continue to exist within the DFA. Maintain or enhance landscape level productivity.	
Linkage to *FSJPPR*: For the purposes of Section 42 of the *FSJPPR* this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the Forest Health Landscape Level Strategy.	

Acceptable Variance:

A variance of 1 additional year for completing the treatment plan is permissible to provide time for additional information collection and consultation with forest health specialists.

CURRENT STATUS AND COMMENTS

BCTS

BCTS through Section 108 Obligation funding replanted 636.38 ha of plantations burned during the 2016 wildfires totaling 967,260 seedlings. An additional 65.2 ha were planted over three openings during the reporting period of April 1, 2018 to March 31, 2019. Prior year silviculture surveys conducted on these openings identified the need for fill planting. The causes were primarily due to heavy grass competition that led to mortality in plantations of conifer and decreased natural regeneration of deciduous. Some of these stands may be managed as mixedwood going forward while some will continue on a conifer management objective.

From the silviculture surveys conducted during the reporting period on BCTS obligation areas, there were minor incidences of forest health damage such as western gall rust. Surveys have indicated that grass has been inhibiting the re-establishment of aspen in isolated pockets in some deciduous stands. Venturia spp. has continued to be prevalent in many of the deciduous plantations.

None of the forest damages identified were considered at levels significant enough to warrant development of a treatment plan however.

The efficacy of the BCTS 2018 aerial herbicide spray program was determined to be good.

[13] Indicator changed in 2010 SFMP to apply to silviculture obligation areas

Licensee Participants (Canfor, MPMC, CRL, Dunne-za, Louisiana-Pacific, PVOSB)

Licensee participants fill planted 183 ha of obligation area over 8 different openings during the reporting period of April 1, 2017 through March 31, 2018. The need for fill planting on these sites was identified during surveys, and the cause was attributed to competition from grass, as well as fill-planting deciduous blocks where the aspen were not regenerating in sufficient quantities.

Surveys conducted on obligation areas during the reporting period identified minor incidences of aspen twig blight, frost, and animal browse. None of the forest damages identified were considered at levels significant enough to warrant development of a treatment plan.

Target Achieved	
✓ **Yes**	**No**

REVISIONS

There are no revisions planned for this indicator.

3.26. SALVAGE

Indicator Statement	Target Statement
The relative proportion of area of merchantable fire-damaged stands salvaged within a management intensity class[14].	The relative proportions of salvage hectares will be highest in the high intensity zones[15], and lowest in the low intensity zones over an SFMP period (April 1, 2016 - March 31, 2022).
SFM Objective: A natural range of variability in ecosystem function, composition and structure which allows ecosystems to recover from disturbance and stress.	
Linkage to FSJPPR: N/A	

Acceptable Variance:

None.

CURRENT STATUS AND COMMENTS

During the summer of 2016, 24 forest fires burned a combined area of 77,593.9 ha within the DFA. These fires occurred in High and Moderate Management Intensity Zones. 3020 hectares of the burned areas were salvaged.

During the summer of 2017, 3 forest fires burned a combined area of 11.3 ha within the DFA. These fires occurred in low Management Intensity Zones. Due to the size of the individual fires and the limited amount of merch timber impacted by the fires, salvage was not pursued.

During the summer of 2018, fires occurred in Moderate and High Intensity Management Zones of the DFA, resulting in a total of 49496 hectares of burned area. A total of 116.6 hectares were salvaged in the Moderate Intensity Zone.

[14] Modified in 2010 from SFMP # 1 to include only fire damaged stands

[15] See Section 1.4.1 (page 22) of SFMP# 3 for description of LU's in high, moderate and low forest management intensities.

Table 14: Area Damaged / Salvaged in Merchantable Timber During the SFMP Period

MANAGE-MENT INTENSITY EMPHASIS	HIGH			MODERATE			LOW			ALL		
Year	Total Area burned (ha)	Merch* Timber Damaged (ha)	Merch Timber Salvaged (ha)	Total Area burned (ha)	Merch* Timber Damaged (ha)	Merch Timber Salvaged (ha)	Total Area burned (ha)	Merch* Timber Damaged (ha)	Merch Timber Salvaged (ha)	Total Merch* Timber Damaged (ha)	Total Area Salvage (ha)	Total Area Damaged (ha)
2016	12484	4239	1375	66114	16951	1645	0	0	0	21190	3020	78599
2017	0	0	0	0	0	0	11	0	0	0	0	11.3
2018	29939	1024	0	19556	2107	116	0	0	0	3131	116	49496
SFMP Totals	**42423**	**5263**	**1375**	**85670**	**19058**	**1761**	**11**	**0**	**0**	**24321**	**3137**	**128106**

*Based on VRI from Land Resource Data Warehouse (LRDW) on stands with a total estimated volume of >= 140m^3/ha and occurring on the Crown Forest Landbase (CFLB).

Over the SFMP reporting period, 26.1% of High Intensity Management Zone was salvage harvested; 9.2% of Moderate Intensity Management Zone was salvage harvested; 0% of Low Intensity Management Zone was salvage harvested.

The participants are consistent with the target for this indicator.

REVISIONS

There are no revisions proposed for the indicator and target.

3.27. SILVICULTURE SYSTEMS

Indicator Statement	Target Statement
Percentage of area harvested annually using even aged silvicultural systems.	Even aged silvicultural systems will be employed on at least 80% of the total area harvested annually in the DFA.
SFM Objective: A natural range of variability in ecosystem function, composition and structure which allows ecosystems to recover from disturbance and stress.	
Linkage to FSJPPR: N/A	

Acceptable Variance:

No acceptable variance.

CURRENT STATUS AND COMMENTS

Table 15 summarizes the silviculture system (merchantable hectares) on blocks harvested between April 1, 2018 and March 31, 2019.

Table 15: Silviculture System Summary by area

Managing Participant	Even-aged (ha)	Uneven-aged (ha)	Total (ha)
Licensee Participants	4619.6	0	4619.6
BCTS	1695.8	0	1695.8
Total	**6315.4**	**0**	**6315.4**

Even-aged silviculture systems were employed on 100% of the total area harvested by participants within the DFA during the reporting period, which is consistent with the target for this indicator.

Target Achieved	
✓ **Yes**	**No**

REVISIONS

There are no proposed changes to the indicator or the target.

3.28. SPECIES COMPOSITION

Indicator Statement	Target Statement
Relative Change in Plantation Composition versus Harvest Composition for Spruce and Pine.	The relative proportion of spruce and pine planted annually will equal the proportions harvested annually (excluding fill planting).
SFM Objectives: Maintain the diversity and pattern of communities and ecosystems within a natural range. Maintain a natural range of variability in ecosystem function, composition and structure which allows ecosystems to recover from disturbance and stress.	
Linkage to *FSJPPR*: For the purposes of Section 42 of the *FSJPPR* this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the Reforestation Landscape Level Strategy.	

Acceptable Variance:

An annual variance of plus or minus 20% absolute difference between the planted Pine/Spruce percentages and cruise Pine/Spruce percentage estimates is allowed to reflect potential annual harvest composition fluctuations, site treatment impacts, annual seedling delivery fluctuations (i.e. nursery production shortfalls/overruns), and to allow site level decisions to be signed off by Professional Foresters for variances (e.g. to address potential forest health concerns such as areas highly susceptible to rusts, insects, etc.)[16]

CURRENT STATUS AND COMMENTS

Table 16 summarizes the blocks planted between April 1, 2018 and March 31, 2019 and the corresponding cruise species percentages by licensee:

Table 16: 2018 Planting vs. cruise species comparison

Division	Data	Total	Percentages
BCTS	Sum of Cruise --Spruce (m3)	143,875	63.4%
	Sum of Cruise -- Pine (m3)	83,090	36.6%
	Sum of Planted -- Spruce (trees)	926,033	63.7%
	Sum of Planted -- Pine (trees)	526,792	36.3%
Licensee Participants	Sum of Cruise -- Spruce (m3)	438,988	64.8%
	Sum of Cruise -- Pine (m3)	237,991	35.2%
	Sum of Planted -- Spruce (trees)	2,548,960	63.8%
	Sum of Planted -- Pine (trees)	1,444,755	36.2%
Combined Totals	Total Sum of Cruise -- Spruce (m3)	582,863	64.4%
	Total Sum of Cruise -- Pine (m3)	321,081	35.6%
	Total Sum of Planted -- Spruce (trees)	3,474,993	63.8%
	Total Sum of Planted - Pine (trees)	1,971,547	36.2%

[16] The original variance was amended in the 2006-2007 Annual Report- clarified that the assessment is based on cruised volumes vs seedlings planted

As indicated above the blocks planted in 2018 contained 64.4% spruce volume in the cruise and were planted with 63.8% spruce. These blocks contained 35.6% pine volume in the cruise and were planted with 36.2% pine. The planted species percentages are within 20% of the cruise species percentages and therefore the participants are within the acceptable variance for this indicator and target.

Target Achieved	
✓ **Yes**	**No**

REVISIONS

There are no proposed revisions to this indicator or the target.

3.29. REFORESTATION ASSESSMENT

Indicator Statement	Target Statement
Predicted Merchantable Volume (PMV) (cubic meters) coniferous and separate deciduous surveyed areas.	Predicted Merchantable Volume will meet or exceed the Target Merchantable Volume (TMV). The TMV is set at 95% of the Maximum Predicted Merchantable Volume attainable on coniferous areas. The TMV is set at 90% of the Maximum Predicted Merchantable Volume attainable on deciduous areas.
SFM Objectives: A natural range of variability in ecosystem function, composition and structure which allows ecosystems to recover from disturbance and stress. Maintenance of the processes for carbon uptake and storage.	
Linkage to FSJPPR: For the purposes of Section 35(5) of the FSJPPR this indicator statement, target statement and acceptable variance will be used in replacement of the portions of affected Section 32 of the FSJPPR through the application of the landscape level strategy for coniferous areas logged after November 15, 2001. This will also apply to coniferous area in cutblocks with commencement dates before November 15, 2001 if the participant currently carries reforestation liability and has submitted a statement to the district manager that the cutblock(s) will be subject to the SFMP under Section 42 of the FSJPPR. Please refer to sec 8.1.3 of this SFMP. For the purposes of Section 42 of the FSJPPR this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the landscape level strategies for coniferous areas.	

Acceptable Variance:

A variance of 5% below the Target Merchantable Volume will be acceptable (i.e. 90% of the Maximum Predicted Merchantable Volume for coniferous areas, and 85% of the Maximum Predicted Merchantable Volume for deciduous areas). The variance accounts for the complexity of ecosystems and silviculture regimes combined with the long time frames and variety of influences on reforestation outcomes.

If the conifer target population's Predicted Merchantable Volume is less than the Target Merchantable Volume, individual cutblocks will be required to meet a minimum cutblock Mean Stocked Quadrant (MSQ) value of 2.0 well growing crop trees, for a target stocking of 1200 stems/ha or greater. For a target stocking of 1000 stems/ha and 800 stems/ha the minimum cutblock MSQ values will be 1.7 and 1.3 respectively. If the cutblock has areas of different target stocking the MSQ will be prorated by area.

Damage events beyond the control or influence of the Participants (e.g. wildfire) will result in the block being deleted from the assessment population, and assessed as noted in the Strategy and Implementation section.

The deciduous compiler has been developed. MSQ reports for deciduous are now included in this section.

Situations may arise in which despite due diligence in prescribing and implementing the silviculture regimes the Participant has not met the target. Where further treatment options are limited, the District Manager may waive a requirement for further treatment.

CURRENT STATUS AND COMMENTS

Tables corresponding to the results presented below can be found in Appendix 4 -Reforestation. MSQ is conducted on coniferous blocks 15 years after harvest and on deciduous blocks 10 years after harvest.

BCTS

A total of three BCTS blocks were MSQ surveyed from the 2003/2004 harvest year in 2018. These three blocks are managed using coniferous stocking standards. This accounted for a sample size of 116.0 ha. The field data collected in July and August 2018 was compiled over the winter using a compiler developed by Timberline Natural Resource Group. The 116.0 ha were broken down into two different stratums based on species composition, site index, stocking class and target stocking standard. For each stratum a target merchantable volume (TMV) was determined based on TASS (Tree and Stand Simulator) models. Using the inputs of mean stocked quadrant (MSQ), mean effective age and site index, a predicted merchantable volume (PMV) was then calculated for each stratum. The PMV for the 2003/2004 harvest year for coniferous managed stands was 58,696 m^3 and the TMV was 59,379 m^3. **This put the PMV at 98.8 % of the TMV, which means that the target has been achieved.**

In addition to the above, a total of one BCTS block was MSQ surveyed from the 2008/2009 harvest year using deciduous stocking standards in 2018. This accounted for a sample site of 57.2 ha. The field data was collected in the summer of 2018 and compiled using a deciduous compiler developed by Craig Farnden Forestry Consulting. This sample represents two stratums based on species composition, site index, stocking class and target stocking standard. The target merchantable volume (TMV) was determined based on TASS models. Using the inputs of mean stocked quadrant (MSQ), mean effective are and site index, a predicted merchantable volume (PMV) was then calculated. The PMV for the 2008/2009 harvest year for deciduous managed stands was 22,130 m^3 and the TMV was 19,871 m^3. **This put the PMV at 111.4% of the TMV, which means the target has been achieved.**

Licensee Participants

A total of 87 blocks were MSQ surveyed from the 2003/2004 harvest year in 2018, accounting for a sample size of 2724.6 ha. The field data collected between August and October of 2018 were compiled over the winter using a compiler developed by J.S. Thrower and Associates. The 2724.6 ha were grouped into 32 different strata based on species composition, site index, stocking class, and target stocking standard. For each stratum a target merchantable volume (TMV) was determined based on TASS models. Using inputs of mean stocked quadrant (MSQ), mean effective age and site index, a predicted merchantable volume (PMV) was then calculated for each stratum. The PMV for the 2003/2004 harvest year was 1,641,577 m^3, and the TMV was 1,518,959 m^3. **This put the PMV at 108.1% of the TMV, which means the target was met.**

In addition to the above, a total of 15 Canfor blocks were MSQ surveyed from the 2008/2009 harvest year in 2018 using deciduous stocking standards. This accounted for a sample size of 1982.7 ha and included many blocks which were impacted by fire disturbances. The field data was collected in the summer of 2018 and compiled using a deciduous compiler developed by Craig Farnden Forestry Consulting. This sample represents two strata based on species composition, site index, stocking class, and target stocking standards. The target merchantable volume (TMV) was determined based on TASS models. Using the inputs of mean stocked quadrant (MSQ), mean effective area and site index, a predicted merchantable volume (PMV) was then calculated. The PMV for the 2008/2009 harvest year for deciduous managed stands was 585,235 m^3 and the TMV was 526,663 m^3. **This put the PMV at 111.1% of the TMV, which means the target has been achieved.**

Figures 8 and 9 show a 3-year summary for this indicator:

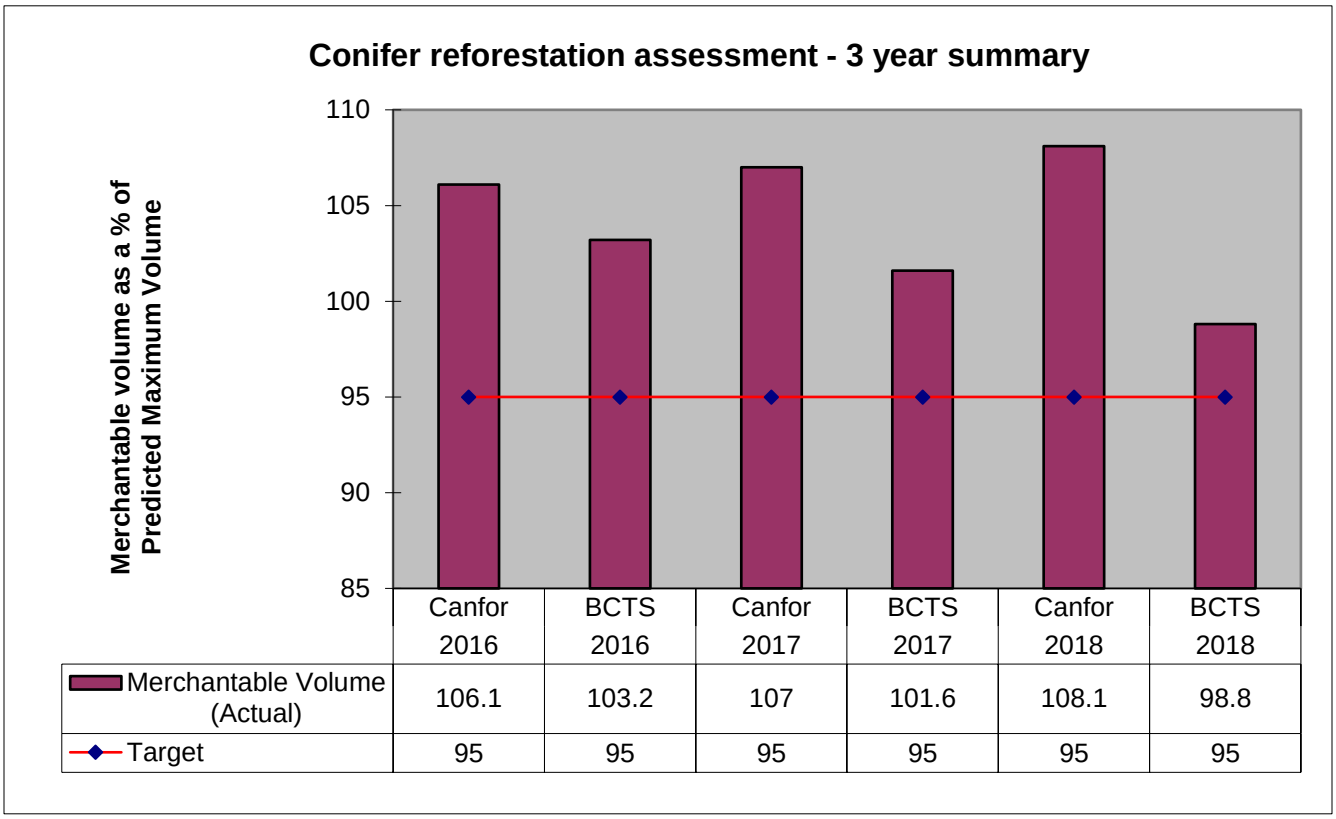

Figure 8: Conifer reforestation assessment merchantable volume prediction

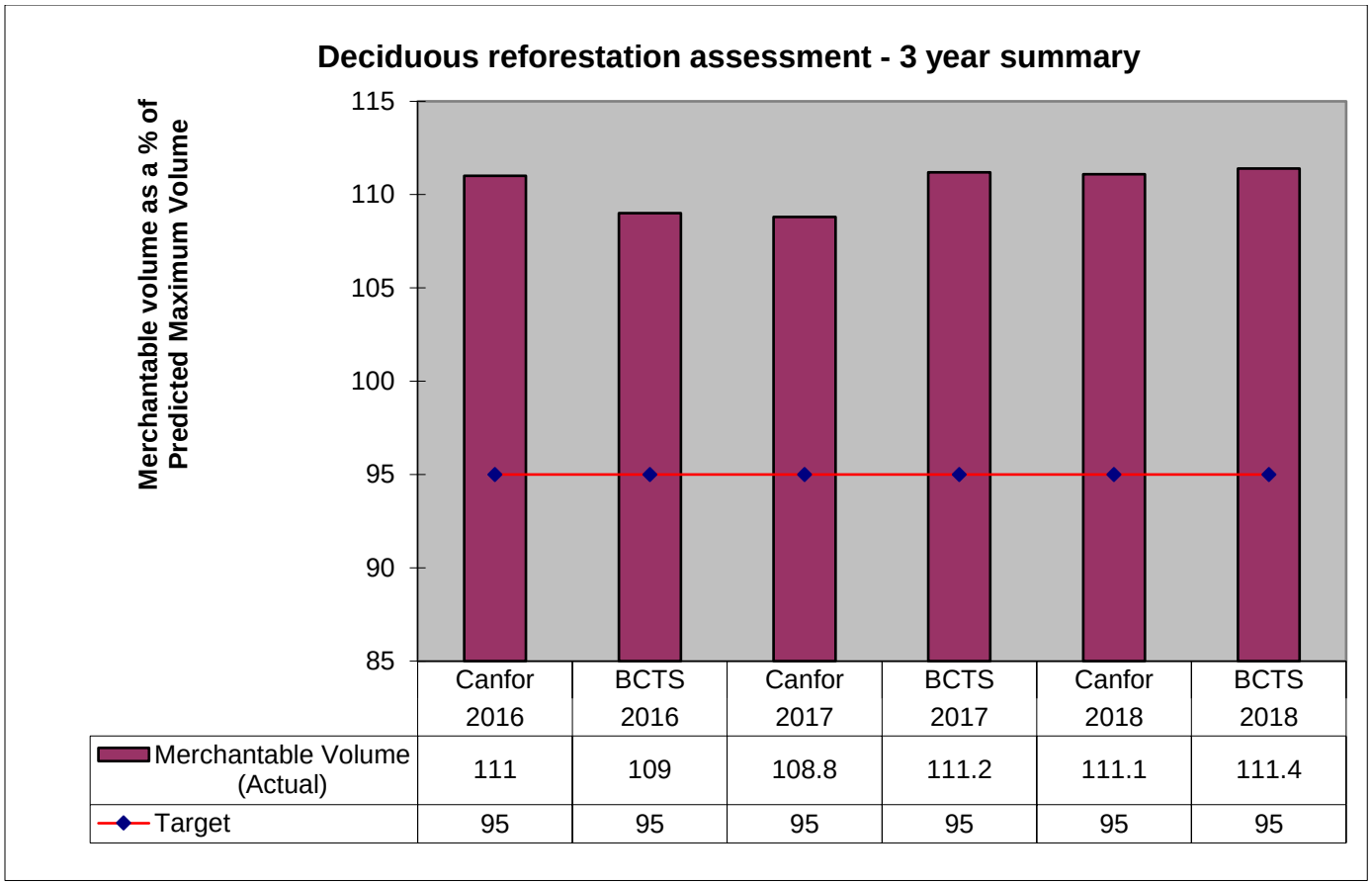

Figure 9: Deciduous reforestation assessment merchantable volume prediction

Target Achieved	
✓ **Yes**	**No**

REVISIONS

There are no proposed revisions to this indicator or the target.

3.30. ESTABLISHMENT DELAY

Indicator Statement	Target Statement
Establishment Delay (years)	The area weighted average establishment delay for coniferous regeneration will not exceed two years The area weighted average establishment delay for deciduous regeneration will not exceed three years The area weighted average establishment delay for mixedwood stands regeneration will not exceed three years.
SFM Objectives: Maintain the diversity and pattern of communities and ecosystems within a natural range. Maintain a natural range of variability in ecosystem function, composition and structure which allows ecosystems to recover from disturbance and stress. Maintenance of the processes for carbon uptake and storage.	
Linkage to *FSJPPR*: For the purposes of Section 42 of the *FSJPPR* this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the Reforestation Landscape Level Strategy.	

Acceptable Variance:

To allow for variations in site preparation requirements, access, and delays in harvest the acceptable variance for establishment delay is an additional one half year (e.g. 2.5 years for conifer, 3.5 years for deciduous and mixedwood).

CURRENT STATUS AND COMMENTS

Coniferous Regeneration:

BCTS coniferous establishment delay was 0.8 years, which is within the acceptable performance range for coniferous establishment timelines for this indicator. Canfor coniferous establishment delay was 1.6 years, which is within the acceptable performance range for coniferous establishment timelines for this indicator.

Deciduous Regeneration:

The BCTS deciduous establishment delay was 2.8 years, which is within the acceptable performance range for deciduous establishment timelines for this indicator. The Canfor deciduous establishment delay was 2.5 years, which is within the acceptable performance range for deciduous establishment timelines for this indicator.

Mixedwood Regeneration

The BCTS mixedwood establishment delay was 4.3 years, which is not within the acceptable performance range for mixedwood establishment timelines for this indicator, due to natural regeneration failures of deciduous strata. These deciduous strata were fill planted with conifers, however a post fill planting follow-up establishment delay survey was not completed prior to the establishment delay date.

The Canfor mixedwood establishment delay was 1.9 years, which is within the acceptable performance range for mixedwood establishment timelines for this indicator.

Refer to the tables found in Appendix 4 - Reforestation, for a detailed listing of how this establishment delay value was calculated.

Figure 10 shows a 3-year summary for the indicator:

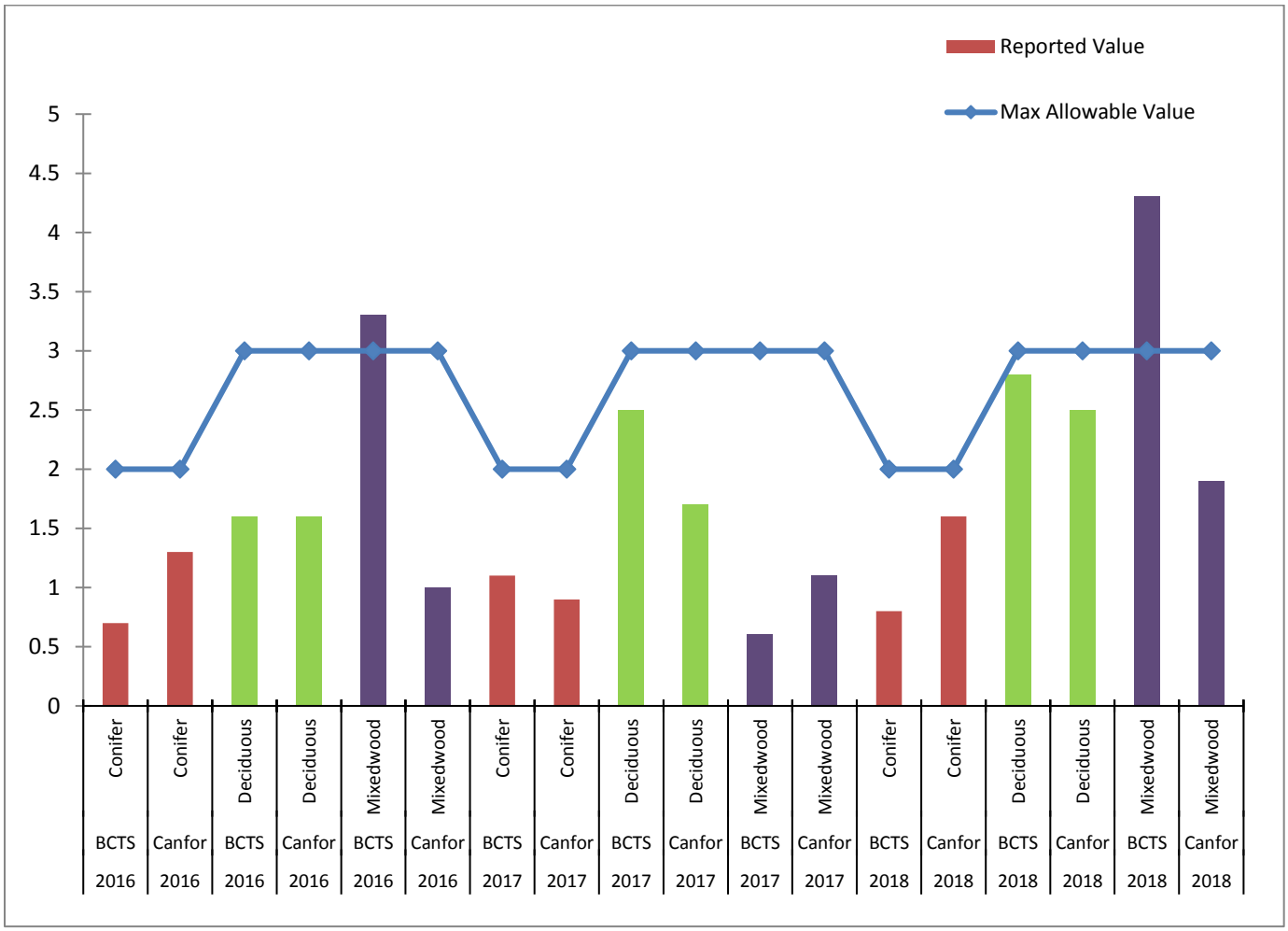

Figure 10: Establishment delay 3-year summary

The participants did not achieve one of three targets associated with this indicator.

Target Achieved	
Yes	✓ **No**

REVISIONS

There are no proposed revisions to the indicator statement or target.

3.31. LONG TERM HARVEST LEVEL

Indicator Statement	Target Statement
Long-term harvest level (LTHL) as measured in cubic metres per year (m^3/yr).	We will propose an Allowable Annual Cut (AAC) that sustains the LTHL of the Defined Forest Area (DFA).
SFM Objective: Maintain or enhance landscape level productivity. No decrease in the LTHL in the DFA.	
Linkage to FSJPPR: N/A	

Acceptable Variance:

At the time of SFMP #1 government policy direction was to have Timber Supply Reviews (TSR's) prepared by industry for the Chief Forester's consideration, and determination of the AAC. This policy has changed, government is now preparing TSR's with input from the public and stakeholder. Forest industry participation in the TSR process is now limited to providing information and feedback.

Although the Participants may propose information to be considered in the calculation of a sustainable long-term harvest level, the responsibility and authority to determine an AAC however, rests with the MFLNRORD. Ultimately, it is the MFLNRORD Chief Forester who determines the AAC for the management unit.

CURRENT STATUS AND COMMENTS

Work on the current TSR commenced in the summer of 2013. The TSR analysis results document was released in early 2016. The Participants provided information for consideration by the MFLNRORD in the preparation of the data package and the review of the analysis report, which supports the TSR AAC determination. In May 2018, MFLNRORD released the updated AAC. The Chief Forester set the AAC at 2,115,000m³, which is the same AAC that was released in 2003.

Target Achieved	
✓ **Yes**	**No**

REVISIONS

There are no proposed revisions to the indicator statement or target.

3.32. SITE INDEX

Indicator Statement	Target Statement
Site index	Average post harvest site index will not be less than average pre-harvest site index on blocks harvested under the pilot project regulation.
SFM Objective: Maintain or enhance landscape level productivity. Protect soil resources to sustain productive forests.	
Linkage to FSJPPR: N/A	

Acceptable Variance:

A maximum negative variance of 15% post harvest site index *versus* pre harvest site index is allowed to account for statistical variability.

CURRENT STATUS AND COMMENTS

The majority of SPs/SLPs for blocks harvested since Nov. 15, 2001 have been updated to include pre-harvest site index, so that the data will be readily available when well-growing assessments are made to them in the future. Blocks for which licensees developed SLP's during the reporting period have Site Index identified for each Standard Unit.

This indicator applies to blocks harvested since Nov. 15, 2001 that have undergone completion of a well growing assessment as per the required well growing assessment schedule. This is the second reporting season where a population of cutblocks have met the conditions required for inclusion. Multiple blocks, however, were removed from the population due to recent wildfire.

Licensee Participants

The average pre-harvest site index was 15.0, whereas the average post-harvest site index was determined to be 19.5.

BCTS

The average pre-harvest site index was 17.4, whereas the average post-harvest site index was determined to be 20.9.

Target Achieved	
✓ **Yes**	**No**

REVISIONS

There are no proposed revisions to this indicator or the target.

3.33. FIRST NATIONS CONSULTATION & INFORMATION SHARING[17]

Indicator Statement	Target Statement

[17] New indicator in 2010 SFMP- previous SFMP#1 Indicator # 33 was Landslides, which has been deleted

Percentage of affected First Nations invited to participate in information sessions or presentations related to the participants' practices and /or plans (SFMP, FOS, and PMP's).	100% of affected First Nations will be invited to participate in information sessions or presentations related to the participants' practices and /or plans (SFMP, FOS, and PMP's).
SFM Objective: Involve First Nations in review of forest management plans, provide understanding of forest management plans.	
Linkage to FSJPPR: N/A	

Acceptable Variance:
No acceptable variance.

CURRENT STATUS AND COMMENTS
During the 2018-2019 reporting period there were 2 major FOS amendment (#340 and #367) that were prepared jointly by Canfor and BCTS. Information sharing related to the major FOS amendment were conducted with the affected Treaty 8 First Nations and other affected First Nations with identified interest in the FSJ TSA. For Amendment 340, the First Nations were selected based on the geographic location in which the proposed amendment occurs, and as per direction provided by Aviva Jones (MFLNRORD First Nations Advisor), in consideration of their respective traditional territories. For Amendment 367, all nine Treaty 8 First Nations with identified interests in the TSA were info-shared with the entire amendment items. FOS amendment packages including maps and letters were provided to each affected First Nation for each major amendment and appropriate follow-up meetings and discussions were held as requested.

All Treaty 8 First Nations were invited to the Public Advisory Group meeting that occurred during the reporting period

Canfor initiated bi-annual meetings with Treaty 8 First Nations to facilitate better info sharing and communication of Canfor's field layout operations and harvesting activities. Canfor met with six First Nations in the spring of 2019. First Nations' concerns and comments were considered and/or incorporated into the future plans.

In addition to this, Canfor Silviculture staff conducted info sharing with all First Nations where brushing activities were proposed to occur. Through the Notice of Intent to Treat process, First Nations were provided with information and proposed treatment areas in an initial package, followed by many subsequent communications and/or contact attempts.

BCTS notified April, 2018 Sale Schedule notification to the following First Nation groups: Blueberry River First Nation (BRFN), Dene Tha First Nation (DTFN), Doig River First Nation (DRFN), Halfway River First Nation (HRFN), Horse Lake First Nation (HLFN), Prophet River First Nation (PRFN), Saulteau First Nations (SFN) and West Moberly First Nations (WMFN).

BCTS notified July, 2018 Sale Schedule notification to the following First Nation groups: Blueberry River First Nation (BRFN), Dene Tha First Nation (DTFN), Doig River First Nation (DRFN), Halfway River First Nation (HRFN), Horse Lake First Nation (HLFN), Prophet River First Nation (PRFN), Saulteau First Nations (SFN) and West Moberly First Nations (WMFN).

BCTS notified October, 2018 Sale Schedule notification to the following First Nation groups: Blueberry River First Nation (BRFN), Dene Tha First Nation (DTFN), Doig River First Nation (DRFN), Halfway River First Nation (HRFN), Horse Lake First Nation (HLFN), Prophet River First Nation (PRFN), Saulteau First Nations (SFN) and West Moberly First Nations (WMFN).

BCTS notified January, 2019 Sale Schedule notification to the following First Nation groups:Blueberry River First Nation (BRFN), Dene Tha First Nation (DTFN), Doig River First Nation (DRFN), Halfway River First Nation (HRFN), Horse Lake First Nation (HLFN), Saulteau First Nations (SFN) and West Moberly First Nations (WMFN).

BCTS communicated with Blueberry River First Nation (BRFN), Dene Tha First Nation (DTFN),Doig River First Nation (DRFN), Halfway River First Nation (HRFN), Horse Lake First Nation (HLFN), Saulteau First Nations (SFN), West Moberly First Nations (WMFN) through the Notice of Intent to Treat process for brushing/silvicultural treatments. The First Nations were provided with information and proposed treatment areas in an initial package followed by many subsequent communications and/or contact attempts.

Target Achieved	
✓ **Yes**	**No**

REVISIONS

There are no revisions planned for this indicator statement or target.

3.34. PEAK FLOW INDEX

Indicator Statement	Target Statement
The percentage of watersheds achieving baseline targets for the peak flow index and the percent of watershed reviews completed where the baseline target is exceeded.	95% or more of the watersheds will be below the baseline target. All watersheds that exceed the baseline target will have a watershed review completed wherever new harvesting is planned.
SFM Objective: Maintenance of water quantity.	
Linkage to FSJPPR: For the purposes of Section 42 of the FSJPPR this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the landscape level strategies.	

Acceptable Variance:

A variance to a minimum of 90% of the watersheds below the baseline targets will be acceptable.

A zero variance for conducting a watershed review wherever new harvesting is planned in a watershed where the baseline target is exceeded.

CURRENT STATUS AND COMMENTS

A DFA wide analysis of watersheds was conducted. The analysis was done during development of FOS #3 to determine the impact of blocks harvested to March 31, 2025 to each watershed's peak flow index. The analysis showed that 105 of 105 watersheds are below the baseline target for current state and 104 of 105 watersheds (100%) are below the baseline target for future state upon completion of all harvest activities by both participants.

Table 17 identifies the current and expected future state of Peak Flow Index (PFI) upon completion of all harvest activities proposed in FOS #3 as of October 2017.

Table 17: PFI FOS #3 Condition and Targets

Watershed Group	Watershed Name	Class	Size (km2)	Elevation range (m)	H60 Elevation (m)	Baseline Threshold PFI	PFI Current State 2017	PFI 2025
Fontas	Bedji Creek		230.42	460 – 600	508	50	1.6	1.9
Fontas	Chasm Creek		168.21	539 – 680	599	50	0.0	0.0
Fontas	Dazo Creek		260.27	360 – 494	460	50	1.0	0.7
Fontas	FONT Unnamed 1		117.73	361 – 481	461	50	0.6	0.4
Fontas	Fontas River		320.35	536 - 800	660	50	15.0	16.2
Fontas	Kataleen Creek		162.95	380 – 451	413	50	3.0	3.3
Fontas	Teklo Creek		212.81	380 – 474	426	50	0.1	0.1
Fontas	Upper Etthithun River		404.45	620 – 842	680	50	20.5	21.6
Fontas	Ekwan Creek	LB	850.5	360 – 481	420	50	2.0	2.1
Fontas	Etthithun River	LB	1161.6	440 – 842	535	50	8.0	8.6
Fontas	Fontas River - LB	LB	714.32	440 – 800	580	50	7.0	7.5
Kahntah	Dahl Creek		412.84	535 – 943	700	50	0.2	4.6
Kahntah	Helicopter Creek		147.32	505 - 742	613	62	0.1	0.1

Watershed Group	Watershed Name	Class	Size (km2)	Elevation range (m)	H60 Elevation (m)	Baseline Threshold PFI	PFI Current State 2017	PFI 2025
Kahntah	KAHN Unnamed 4		226.87	640 – 944	720	50	0.9	2.9
Kahntah	KAHN Unnamed 5		126.05	538 – 721	624	62	0.5	0.4
Kahntah	Upper Cautley Creek		478.27	660 – 1022	740	62	9.8	11.6
Kahntah	Cautley Creek	LB	865.02	518 – 1022	680	62	5.6	6.6
Kahntah	Kahntah Creek	LB	1096.59	518 - 944	700	50	0.5	3.9
Lower Beatton	Aitken Creek		828.45	654-985	815	43	16.1	14.2
Lower Beatton	Charlie Lake		292.66	690-889	773	62	11.7	13.1
Lower Beatton	Doig River		983.34	623-852	731	43	1.1	1.5
Lower Beatton	Osborn River		735.95	623-987	745	43	38.2	58.6
Lower Beatton	Umbach Creek		430.91	611-866	741	43	7.8	8.9
Lower Beatton	Upper Blueberry		857.77	655-1048	820	50	15.9	17.1
Lower Halfway	Aikman Creek		118.74	640 - 1120	815	43	9.0	17.0
Lower Halfway	Blair Creek		230.44	698 – 1142	902	43	25.2	34.3
Lower Halfway	Cameron Creek		495.18	699 – 1203	944	43	6.8	11.8
Lower Halfway	Colt Creek		158.53	719 – 1701	913	43	7.0	8.0
Lower Halfway	Deadhorse Creek		208.99	560 – 959	820	43	19.9	23.5
Lower Halfway	Ground Birch Creek		338.39	558 – 1062	735	43	16.0	15.3
Lower Halfway	Horn Creek		426.61	1079 – 2347	1474	37	0.0	0.0
Lower Halfway	Kobes Creek		299.88	620 – 1648	828	50	10.9	13.3
Lower Halfway	LHAF Unnamed 1		216.47	699 – 1022	860	43	11.3	14.5
Lower Halfway	Needham Creek		328.94	938 – 2269	1430	43	0.0	0.0
Lower Halfway	Poutang Creek		179.97	1098 – 2393	1453	43	0.0	0.0
Lower Halfway	Townsend Creek		295.8	698 – 1081	880	43	19.0	17.0
Lower Halfway	Cameron River - Residual	LB	2029.32	538 - 1205	837	37	14.9	19.8
Lower Halfway	Graham River	LB	2309.94	530 – 2404	1279	43	2.4	2.4
Lower Sikanni	Bull Creek		351.34	639 – 981	752	50	1.8	16.0
Lower Sikanni	Dechacho Creek		172.51	378 – 762	516	50	1.2	1.2
Lower Sikanni	Katah Creek		594.82	419 – 915	660	50	0.8	7.6
Lower Sikanni	Kenai Creek		78.86	400 – 621	1000	50	3.6	2.6
Lower Sikanni	LSIK Unnamed 2		162.43	536 – 858	720	43	5.5	11.3
Lower Sikanni	LSIK Unnamed 4		59.29	519 – 721	641	50	1.3	1.4
Lower Sikanni	Niteal Creek		516.6	359 – 520	475	50	0.1	0.1
Lower Sikanni	Upper Gutah Creek		806.45	559 – 901	728	62	1.1	3.2
Lower Sikanni	West Conroy		248.28	638 – 1020	782	50	5.8	24.5
Lower Sikanni	Conroy Creek	LB	1096.67	417 – 1020	720	50	3.2	15.5
Lower Sikanni	Gutah Creek	LB	1450.99	380 – 901	645	50	1.4	3.3
Milligan	Dede Creek		128.35	680 – 740	720	62	0.8	0.8
Milligan	Flick Creek		203.24	700 – 859	780	62	0.3	0.3
Milligan	Little Beaverdam Creek		334.14	690 – 854	732	62	0.4	0.4
Milligan	MILL Unnamed 3		325.52	780 – 962	880	62	4.3	4.7
Milligan	Milligan Creek		432.38	680 – 941	780	50	0.3	0.3
Milligan	Upper Milligan Creek		382.2	719 – 941	832	50	13.2	14.5
Milligan	Milligan Creek - LB	LB	1836.56	619 – 941	758	50	3.6	3.9

Watershed Group	Watershed Name	Class	Size (km2)	Elevation range (m)	H60 Elevation (m)	Baseline Threshold PFI	PFI Current State 2017	PFI 2025
Upper Beatton	Arrow Creek		507.02	661 – 902	783	50	1.1	1.2
Upper Beatton	Beatton River		1071.09	777 – 1780	984	43	7.0	9.5
Upper Beatton	Black Creek		666.11	700 – 1022	807	50	6.8	7.7
Upper Beatton	Grewatsch Creek		269.73	736 – 1103	927	50	5.8	11.1
Upper Beatton	Holman Creek		150.18	719 – 1080	896	50	10.9	14.6
Upper Beatton	Jedney Creek		128.76	779 – 1101	952	43	7.9	13.0
Upper Beatton	La Prise Creek		338.99	717 – 1021	860	50	16.9	16.1
Upper Beatton	Martin Creek		120.24	700 – 980	830	50	42.3	47.6
Upper Beatton	McMillan Creek		103.34	659 – 770	736	43	0.2	0.2
Upper Beatton	Nig Creek		476.81	680 – 920	782	50	22.0	24.2
Upper Beatton	UBTN Unnamed 9		156.26	677 – 880	757	50	0.4	0.5
Upper Beatton	Upper Beatton Lrg	LB	2345.63	719 - 1782	924	50	9.1	12.4
Upper Halfway	Blue Grave Creek		158.63	720 – 1722	960	37	4.4	8.7
Upper Halfway	Horseshoe Creek		197.41	739 - 1762	1060	37	1.7	6.1
Upper Halfway	Two Bit Creek		160.23	980 – 1888	1235	37	0.4	0.4
Upper Halfway	UHAF Unnamed 3		127.86	922 – 1862	1221	37	0.0	0.0
Upper Halfway	UHAF Unnamed 6		211.34	778 – 1981	976	37	16.5	19.4
Upper Halfway	Upper Chowade		426.75	925 – 2336	1395	37	5.3	5.8
Upper Halfway	Upper Cypress		334.89	1099 – 2316	1493	37	0.0	0.0
Upper Halfway	Upper Halfway River		629.22	1103 – 2590	1235	37	0.0	0.0
Upper Halfway	Chowade River	LB	988.88	779 - 2331	1475	43	6.6	7.8
Upper Halfway	Cypress Creek	LB	620.07	840 – 2229	1200	37	2.4	3.2
Upper Halfway	Upper Halfway River - LB	LB	1096.06	914 – 3057	1241	37	0.1	0.2
Upper Peace	Coplin Creek		350.04	582-942	773	43	22.3	24.4
Upper Peace	Farrel Creek		646.01	447-1686	713	43	16.4	24.5
Upper Peace	North Cache Creek		187.89	548-909	759	43	15.6	17.6
Upper Peace	Red Creek		239.85	446-919	753	43	14.0	16.4
Upper Prophet	Besa Creek		515.61	1136 – 2993	1568	43	0.0	0.0
Upper Prophet	Minaker River		170.31	859 – 1742	1060	43	1.3	1.3
Upper Prophet	Nevis Creek		182.43	1019 – 2102	1422	37	0.0	0.0
Upper Prophet	Pocketknife Creek		235.85	860 – 1884	1110	43	0.5	0.7
Upper Prophet	Upper Prophet River		269.62	1137 – 2920	1683	37	0.0	0.0
Upper Prophet	Minaker River - Residual	LB	555.08	819 – 1820	1070	43	0.8	1.0
Upper Prophet	Upper Prophet	LB	1177.85	1020 - 2993	1569	37	0.0	0.0
Upper Sikanni	Boat Creek		391.83	455 – 1081	719	50	0.0	0.0
Upper Sikanni	Buckinghorse River		389.18	840 – 1936	1119	43	1.0	1.6
Upper Sikanni	Coal Creek		214.49	637 – 1079	900	43	12.7	16.1
Upper Sikanni	Daniels Creek		223.39	758 – 1263	1041	43	3.3	4.5
Upper Sikanni	Donnie Creek		122.16	520 – 1043	822	50	10.4	16.8
Upper Sikanni	Loranger Creek		132.18	1025 – 2018	1390	43	0.0	0.0
Upper Sikanni	Medana Creek		138.68	702 – 1183	1000	43	0.2	2.0
Upper Sikanni	Middle Fork Creek		207.97	857 – 1269	1060	43	2.3	2.4
Upper Sikanni	Sidenius Creek		460.87	1119 – 2619	1489	43	2.6	2.8

Watershed Group	Watershed Name	Class	Size (km2)	Elevation range (m)	H60 Elevation (m)	Baseline Threshold PFI	PFI Current State 2017	PFI 2025
Upper Sikanni	Sikanni Chief		470.52	1119 – 2739	1488	43	0.0	0.0
Upper Sikanni	Temple Creek		216.19	458 – 901	760	43	5.0	16.6
Upper Sikanni	Trimble Creek		160.27	1082 – 2122	1439	43	0.0	0.0
Upper Sikanni	Trutch Creek		858.44	491 – 1262	781	43	5.0	8.5
Upper Sikanni	Buckinghorse River - Residual	LB	1239.18	618 - 1936	1029	43	1.5	2.5
Upper Sikanni	Sikanni Chief - Residual	LB	2902	618 – 2739	1143	43	1.7	2.2

With respect to current state, the analysis indicates that all watersheds (105 of 105 - 100%) are within the target threshold for peak flow and the participants are in conformance with this indicator. Concerning future state, with the exception of the Osborn River, 104 of 105 (99%) watersheds are within the variance threshold for peak flow and the participants are in conformance with this indicator target.

Target Achieved	
✓ **Yes**	**No**

REVISIONS

There are no proposed revisions to this indicator or the target.

3.35. WATER QUALITY CONCERN RATING

Indicator Statement	Target Statement
The percentage of surveyed stream crossings annually identified with a high WQCR rating on forestry roads within the DFA for which Participants have stewardship. *WQCR – water quality concern rating	On an annual basis fewer than 30% of the total number of surveyed stream crossings on roads for which the Participants have stewardship will have 'High' WQCR. [18]
SFM Objective: Maintenance of water quality.	
Linkage to FSJPPR: N/A	

Acceptable Variance:

Maximum 'high' WQCR allowable will be 35%.

CURRENT STATUS AND COMMENTS

Water Quality Concern Rating (WQCR), also referred to as Water Quality Effectiveness Evaluation, field surveys were conducted on 24 crossings in 2018. Three of those crossings were along fish bearing streams. Results of the field surveys are presented in Table 18.

The participants achieved the indicator target for the 2018/19 reporting period.

Table 18: Summary of WQCR data collected during 2017

Status	*WQCR 'High' or 'Very High' (# crossings)*	*WQCR 'Medium' (# crossings)*	*WQCR 'Low' or 'Very Low' (# crossings)*	*WQCR 'None' (# crossings)*	*Total (#)*	*%crossings rated 'High'*
All combined	0	3	10	11	24	**0**

The following photos are included to give the reader an impression of what 'high' and 'low' Water Quality Concern Ratings may relate to in the field.

Figure 11 is an example of a crossing rated 'high'. Sites assessed soon after deactivation often look like this and can require further application of reclamation seed to lower the concern rating. Incorporating pieces of woody debris along the exposed soil surfaces can further reduce risk of soil erosion and sediment delivery, but can interfere with recreation traffic if excessive.

[18] 2010 SFMP target revised to annual measurement from three year rolling average of 2004 SFMP

Figure 11: Example of a crossing with a '*High*' Water Quality Concern Rating

Figure 12 is an example of a crossing rated 'low'. Abundant reclamation mix and natural vegetation has colonized soil exposures and lowered the risk of soil erosion and sediment delivery to waterbodies.

Figure 12: Example of a crossing with a '*Low*' Water Quality Concern Rating

Target Achieved	
✓ Yes	No

REVISIONS

There are no proposed revisions to this indicator or the target.

3.36. PROTECTION OF STREAMBANKS AND RIPARIAN VALUES ON SMALL STREAMS

Indicator Statement	Target Statement
The number of annual non-conformances to SLP measures related to protecting stream bank, stream channel stability and riparian vegetation from harvesting or silviculture activities.	No non-conformances to SLP measures related to protecting stream bank, stream channel stability and riparian vegetation from harvesting or silviculture activities.
SFM Objective: Maintenance of water quality.	
Linkage to FSJPPR: For the purposes of Section 42 of the FSJPPR this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the landscape level strategies.	

Acceptable Variance:

The maximum allowable variance is one non-conformance per Managing Participant annually.

CURRENT STATUS AND COMMENTS

A review of BCTS incidents related to Site Level Plan (SLP) measures to protect stream bank, stream channel stability and riparian vegetation on small streams due to harvesting or silviculture activities from April 1, 2018 to March 31, 2019 indicated that there were no instances of non-conformance to SLP measures during that reporting period.

A review of Canfor incidents related to SLP measures to protect stream bank, stream channel stability and riparian vegetation on small streams due to harvesting or silviculture activities from April 1, 2018 to March 31, 2019 indicated that there were no instances of non-conformance to SLP measures during that reporting period.

A variance of one non-conformance per participant is allowed annually. There was no participant non-conformances; The participants were in conformance to the indicator and are within the tolerance provided by the variance.

Target Achieved	
✓ **Yes**	**No**

REVISIONS

There are no proposed revisions to this indicator or the target.

3.37. SPILLS ENTERING WATERBODIES

Indicator Statement	Target Statement
Number of spills of a reportable substance (i.e. antifreeze, diesel fuel, gasoline, greases, hydraulic oil, lubricating oil, methyl hydrate, paints and paint thinners, solvents, pesticides, and explosives) entering water bodies.	Zero spills entering water bodies.
SFM Objective: Maintenance of water quality.	
Linkage to FSJPPR: N/A	

Acceptable Variance:

None.

CURRENT STATUS AND COMMENTS

A review of the Participant's Incident Tracking Systems (ITS) incidents indicate that the licensee participants as well as BCTS, had no spills of a reportable substance that entered water bodies during the 2018-19 reporting period.

Target Achieved	
✓ **Yes**	**No**

REVISIONS

None.

3.38. CARBON SEQUESTRATION RATE

Indicator Statement	Target Statement
Maintenance of DFA average carbon sequestration rates.	Maintain DFA average carbon sequestration rates that are consistent with or greater than natural sequestration rates.
SFM Objective: Maintenance of the processes for carbon uptake and storage.	
Linkage to FSJPPR: N/A	

Acceptable Variance:
No decline lower than the natural disturbance sequestration rate as modeled in support of this indicator is acceptable.

CURRENT STATUS AND COMMENTS

There have been no changes in the status of this indicator since the development of SFMP #1.

The strategy to manage sequestration rates is through prompt reforestation (Section 3.30 of this document) and maintaining acceptable levels of stocking over the landscape on previously harvested and regenerated sites (Section 3.29 of this document). The participants are in conformance with the requirements of indicators 29 and 30 (conifer and deciduous establishment).

Updating of the carbon sequestration rates for the DFA will be initiated provided that a revised carbon budget modeling analysis, which is expected to be a component of the current MFLNRORD timber supply analysis, is actually completed by the MFLNRORD.

Target Achieved	
✓ **Yes**	**No**

REVISIONS

There are no revisions planned for this indicator.

3.39. ECOSYSTEM CARBON STORAGE

Indicator Statement	Target Statement
The percentage of ecosystem carbon stored in the Fort St. John DFA relative to projected natural levels.	Maintain ecosystem carbon storage at a minimum of 95% of projected natural storage levels.
SFM Objective: Maintenance of the processes for carbon uptake and storage.	
Linkage to FSJPPR: N/A	

Acceptable Variance:

No acceptable variance.

CURRENT STATUS AND COMMENTS

There have been no changes in the status of this indicator since the development of SFMP #1. The strategy to manage carbon storage is through prompt reforestation (Section 3.30 of this document) and maintaining acceptable levels of stocking over the landscape on previously harvested and regenerated sites (Section 3.29 of this document) and adherence to cut control requirements (Section 3.53 of this document) which will sustain the long term harvest level for the DFA (Section 3.31). The participants are in conformance with the requirements of indicators 29, 30 (deciduous and coniferous establishment delay), 31 and 53.

Updating of the natural carbon storage levels for the DFA will be initiated provided that a revised carbon budget modeling analysis, which is expected to be a component of the current MFLNRORD timber supply analysis, is actually completed by the MFLNRORD.

Target Achieved	
✓ **Yes**	**No**

REVISIONS

The new TSR will be reviewed to determine whether a carbon budget modelling analysis was completed. If so, changes to this indicator will be considered.

3.40. COORDINATED DEVELOPMENTS

Indicator Statement	Target Statement
Number of coordinated developments.	Report annually the number of proposed coordinated developments that occurred.
SFM Objective: Foster inter-industry cooperation to minimize conversion of forested lands to non-forest conditions.	
Linkage to FSJPPR: N/A	

Acceptable Variance:

The opportunities for coordinated development will fluctuate annually based on the overall activity of the oil and gas industry as well as the proximity of operations to one another. Any amount of coordinated development on the basis of making participants' plans readily available will be viewed as a positive step in reducing the conversion of forested lands to non-forest conditions. No variance is necessary, as the target is to report out on coordinated activities that occurred between the industries.

CURRENT STATUS AND COMMENTS

Following is a summary of proposed changes to activities related to coordinating development between licensee participants and the oil and gas industry between April 1, 2018 and March 31, 2019.

Canfor received 119 referrals of Oil and Gas activities. While many of the referrals already had measures proposed to minimize impacts on forestland, forest licensees did make recommendations on multiple projects.

- 9 requests to alter plans to prevent impacts to WTP's, riparian areas, specific wildlife features, streams and NCD's were made by Canfor.
- 8 request to maintain access beyond Oil and Gas activities
- 4 cases where companies were asked to utilize existing access as opposed to building new roads for proposed projects.
- 2 requests to rehabilitate forestry roads where oil and gas development has built superior roads to the same location.
- 1 case where companies were informed of how their activities may have potential impacts to First Nation mitigation measures.
- 1 case where companies were informed to avoid an archeological feature in the area of the proposed activity.
- 5 requests to move a road, facility or ancillary site.
- 17 cases where oil and gas activities would conflict with forestry activities.

Canfor provided oil and gas companies with a total of 268 road use agreements for use of Canfor roads. Oil and gas companies consequently provided a number of road use agreements for their roads to Canfor. In most of the referrals received, planned access to the proposed oil and gas development had considered information from the Participant's Forest Operations Schedule.

In 10 other instances Canfor worked collaboratively with oil and gas proponents to develop coordinated plans that worked to address road upgrades, culvert repairs and road surfacing projects.

Following is a summary of proposed changes to activities related to coordinating development between BCTS and the oil and gas industry.

BCTS received a total of 49 oil and gas referrals between April 1st, 2018 and March 31st, 2019. Of the 49 referrals BCTS received, there were 8 proposed changes. The changes consisted of the following:

- The request that the oil and gas company cover compensation for the amendments required to the affected BCTS block as it was ready to be advertised. - 1 referral replies.

- The request that post construction shape files be submitted to BCTS for silviculture reductions. - 5 referral replies.

- The request for the construction timeline to be adjusted to avoid in block construction while the block has active harvesting. - 2 referral replies.

The remaining 41 referrals had very little or no impact to BCTS blocks and required minor or no changes to the proposed oil and gas activity.

Most of the referrals from the oil/gas industry appeared to have utilized the FOS maps provided resulting in the use of BCTS planned and/or developed infrastructure.

Target Achieved	
✓ **Yes**	**No**

REVISIONS

There are no revisions planned for this indicator.

3.41. RANGE ACTION PLANS

Indicator Statement	Target Statement
Percent consistency with mutually agreed upon action plans for range.	Operations 100% consistent with resultant range action plans.
SFM Objective: Provide opportunities for a feasible mix of timber, recreational activities, and non-timber commercial activities.	
Linkage to FSJPPR: N/A	

Acceptable Variance:

Variances are permissible only on reaching mutual agreement between the affected range tenure holder and Participant.

CURRENT STATUS AND COMMENTS

The formality and process of a Timber and Range Action Plan (TRAP) that originated from the Timber and Range Impact Mitigation Committee (TRIMC), over time, has become less formal. However, this has not reduced the efforts that BCTS and Canfor have made in attempting to engage in conversations with range tenure holders. The intent for these joint communications continues to be to anticipate possible timber range issues in advance and focus on creating mutually agreeable actions to mitigate these issues.

There were no new Timber Range Action Plans (TRAP) completed and signed between Canfor and range tenure holders during the 2018-2019 reporting period. One mutually agreed-upon action plan occurred with one range tenure holder. The range tenure holder's concerns were mitigated with on-the-ground plans. Operations were 100% consistent with resultant range action plans.

There were no new Timber Range Action Plans (TRAP) completed and signed between BC Timber Sales and range tenure holders during the 2018-2019 reporting period. Similarly, there were no mutually agreed upon actions that occurred during this reporting period.

Participants' operations were 100% consistent with mutually agreed upon action plans due during the reporting period, regarding range tenures.

Target Achieved	
✓ **Yes**	**No**

REVISIONS

Revisions to this indicator will be considered over the next 1-2 years in light of the SFMP #3 approval letter.

3.42. DAMAGE TO RANGE IMPROVEMENTS

Indicator Statement	Target Statement
Number of range improvements damaged by Participants' activities.	Zero range improvements damaged by Participants' activities.
SFM Objective: Provide opportunities for a feasible mix of timber, recreational activities, and non-timber commercial activities.	
Linkage to FSJPPR: For the purposes of Section 42 of the FSJPPR this indictor statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the landscape level strategies.	

Acceptable Variance:

Temporary removal or alteration of a range improvement to enable short-term forestry activities to proceed is permissible. However, repairs to or replacement of improvements must be completed in less than one year from the time they were damaged. The indicator target would not apply if a Participant can implement alternative mitigation measures to the satisfaction of the range tenure holder.

CURRENT STATUS AND COMMENTS

In January 2018, Canfor notified a range tenure holder that a 30-metre section of the fence line shall be temporarily removed to allow the access of a road. After logging, the 30 metre section of the fence line was repaired to the satisfaction of the range tenure holders.

In August 2018, Canfor received a complaint that a cattleguard was filled in with mud from grading and not functioning properly. Canfor made mitigation strategies to the satisfaction of the range tenure holder.

In December 2018, around 100 metres of fence line of one range tenure adjacent to one Canfor cutblock was temporarily removed with a caterpillar for safety concerns, as the logging machines may be caught by the wires. In addition, a road also goes through the same section of the fence line. Fence was repaired in July, 2019.

During the reporting period BCTS did not incur any instances whereby a range improvement was damaged and not repaired within 1 year of occurrence.

Managing Participants are in conformance with the indicator's acceptable variance.

Target Achieved	
✓ **Yes**	**No**

REVISIONS

Revisions to this indicator will be considered over the next 1-2 years in light of the SFMP #3 approval letter.

3.43. RECREATION SITES

Indicator Statement	Target Statement
The number of recreation sites maintained by Participants.	Participants will maintain a minimum of one recreational site within the DFA.
SFM Objective: Provide opportunities for a feasible mix of timber, recreational activities, and non-timber commercial activities.	
Linkage to FSJPPR: N/A	

Acceptable Variance:

No less than the target.

CURRENT STATUS AND COMMENTS

During the reporting period Canfor and BCTS continued maintenance of the Crying Girl Prairie campsite, utilizing a local contractor to provide site cleanup, outhouse cleaning, and garbage disposal.

Target Achieved	
✓ **Yes**	**No**

REVISIONS

There are no proposed revisions to this indicator or the target.

3.44. VISUAL QUALITY OBJECTIVES

Indicator Statement	Target Statement
Consistency with Visual Quality Objectives (VQO's).	Pilot participants' forest operations will be consistent with the established VQO's.
SFM Objective: Provide opportunities for a feasible mix of timber, recreational activities, and non-timber commercial activities.	
Linkage to FSJPPR: For the purposes of Section 42 of the FSJPPR this indicator, statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the landscape level strategies.	

Acceptable Variance:

A variance to the requirement for consistency with established VQO's, where approved by the District Manager, is permitted on a site-specific basis, where required to address risks to resource values or safety issues (e.g. fire salvage, sanitation harvesting for forest pest control), as identified in a SLP. A rationale will be prepared by a professional forester, and must specify the reasons for the variance and the measures that will be implemented to address the resource value at risk and mitigate impacts on the visual resource.

CURRENT STATUS AND COMMENTS

The SFMP strategy directing the timing of visual quality assessments specifies that post harvest reviews of harvested areas that fall within visually sensitive landscapes will be completed no later than December 31 of the following year after harvesting is completed (e.g. if logging is finished in November of 2016, the post harvest assessment must be done by December 31, 2017).

For the 2018/19 reporting period, Canfor assessed the blocks where harvesting was completed prior to December 31, 2017 and found 7 blocks that fell into visual quality objective polygons and would require visual quality objective (VQO) assessments during the reporting period. All 7 post harvest visual quality assessments were completed and were found to have met the visual quality objectives for the polygon. There were no variances requested or approved by the MFLNRORD for the requirement to complete a post-harvest Visual Quality Assessment.

Blocks 01200, 01161, and 01162, were blocks that Canfor had not completed a VQ assessment on prior to completion of the 17/18 annual report last year. This reporting period, these blocks had visual impact assessments completed, and it was determined that they all met the VQ objectives.

Canfor is therefore in conformance with the target for this indicator.

For the 2018-2019 reporting period, BCTS had two blocks that fell within area requiring management of Visual Quality Objectives. There were no variances approved by the MFLNRORD for the requirement to achieve the Visual Quality Objectives, which would have waived the requirement to complete a post-harvest Visual Quality Assessment. Therefore two post-harvest visual quality assessments were required to be completed. A visual quality assessment was due to be completed by March 31, 2019 on Blocks 02260 and 02277. To the date of preparation of this report, the post-harvest visual quality assessment of these blocks has been completed. The Visual Quality Objectives were met on both blocks. BCTS is therefore in conformance with the target for this indicator.

Target Achieved

✓ Yes	No

REVISIONS

There are no proposed revisions to this indicator.

3.45. RECREATION OPPORTUNITY SPECTRUM (ROS)

Indicator Statement	Target Statement
Area in primitive and semi-primitive non-motorized classifications of the Recreation Opportunity Spectrum (ROS) for the Graham, Sikanni, and Crying Girl LU's.	A minimum of 65,839 ha in primitive ROS area (100% of 1996 primitive ROS area) and 180,726 ha in semi primitive non-motorized ROS area (50% of the 1996 total semi primitive NM ROS area) in the combined Graham, Crying Girl and Sikanni LU's (excluding the Graham Laurier and Redfern-Keily PA's).
SFM Objective: Provide opportunities for a feasible mix of timber, recreational activities and non-timber commercial activities.	
Linkage to FSJPPR: For the purposes of Section 42 of the FSJPPR this indictor statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the landscape level strategies.	

Acceptable Variance:

The Primitive ROS percentage may fluctuate over time as roads are constructed and permanently deactivated to retain the percentage at 1996 levels. At any given time the Primitive ROS percentage may decrease down to 10% on a temporary basis until such time as the constructed forest roads are permanently deactivated and the Primitive classification is restored.

There is no allowable variance for the Semi-Primitive non-motorized target.

CURRENT STATUS AND COMMENTS

During development of the FOS #3, the FOS was analyzed to project the potential impact on the ROS targeted percentages; all of proposed development was consistent with the SFMP ROS targets. Many of the blocks proposed by FOS #1 and FOS #2 for harvest in the Crying Girl and Graham RMZs have not been harvested and no new activities were proposed in FOS #3.

Table 19 identifies the condition of the recreation opportunity spectrum expected upon the completion of all harvest operations in FOS #3. In the event that the FOS is amended to include new block or road area that may impact the Participants' performance to this indicator, the ROS analysis will be redone to determine the potential impact.

Table 19: Projection of Changes to ROS Class from 1996 to 2025

Crying Girl Graham & Sikanni LU	ROS Class Projection to 2016- After Modeling Impact of Proposed Development in 2010 FOS											
	Primitive		Semi Primitive Non-Motorized		Semi Primitive Motorized		Roaded		Urban/ Agriculture		Total Area	Total %
	Area (ha)	%	Area (ha)	%	Area (ha)	%	Area (ha)	%	Area (ha)	%	(ha)	
Total 1996 ha	65,839	12.1%	361,451	66.2%	116,090	21.3%	269	0.0%	2287	0.4%	545,936	100.0%
Total 2010 Projected ha (from 2004 FOS)	65,839	12.1%	344,488	63.1%	133,056	24.4%	269	0.0%	2,287	0.4%	545,939	100.0%
2010 SFMP Target	**65,839**		**180,726**		**NA**		**NA**		**NA**		**NA**	

Table 19 summarizes the projected ROS condition presented in FOS #3. It should be noted that FOS #3 included developments proposed in the Crying Girl and the Graham landscape units. The proposed development of FOS #3 was found to be consistent with the SFMP ROS targets.

No logging occurred in this area between 2008 and Sep 1, 2018. The current status remains consistent with the target range for this indicator.

As the minimum targets of 65,839 ha in primitive ROS area (100% of 1996 primitive ROS area) and 180,726 ha in semi primitive non-motorized ROS area have been identified to be maintained through completion of harvesting of all blocks in FOS #3, the participants are therefore in conformance with the target for this indicator.

Target Achieved	
✓ **Yes**	**No**

REVISIONS

There are no proposed revisions to this indicator or the target.

3.46. ACTIONS ADDRESSING GUIDES, TRAPPERS AND OTHER INTERESTS

Indicator Statement	Target Statement
Percentage of operations consistent with mutually agreed upon action plans for guides, trappers and other known non-timber commercial interests.	100% of operations will be consistent with action plans for guides, trappers and other non-timber commercial interests.
SFM Objective: Provide opportunities for a feasible mix of timber, recreational activities and non-timber commercial activities.	
Linkage to FSJPPR: N/A	

Acceptable Variance:

Variances are permissible only on reaching mutual agreement between the affected tenure holders and Participant.

CURRENT STATUS AND COMMENTS

During the reporting period of April1, 2018 to March 31, 2019, Canfor conducted two mutually agreed upon action plans with trapline tenure holders. Operations are consistent with the action plans.

During the reporting period of April 1, 2018 to March 31, 2019 there was no BCTS operations conducted in areas where mutually agreed upon action plans were prepared with guides, trappers or other non-commercial timber interests.

Target Achieved	
✓ **Yes**	**No**

REVISIONS

Revisions to this indicator will be considered over the next 1-2 years in light of the SFMP #3 approval letter.

3.47. TIMBER PROCESSED IN THE DFA

Indicator Statement	Target Statement
Volume of timber processed in the DFA in proportion to volume harvested in the DFA.	The annual equivalent of a minimum of 70% of the DFA's harvest is primary processed in the DFA[19].
SFM Objective: Viable timber processing facilities in the DFA.	
Linkage to FSJPPR: N/A	

Acceptable Variance:

An acceptable negative variance of 5% (i.e. a minimum of 65% of the harvest processed in the DFA) is permissible. This target level and variance is necessary to account for timber harvested within the DFA that is not directly harvested by the Participants thus having less control as to its final processing destination.

CURRENT STATUS AND COMMENTS

Table 20 outlines the volume of timber processed at facilities in the DFA in proportion to the entire volume of timber harvested and delivered to professing facilities in the DFA up to and including March 31, 2018.

Table 20: Proportion of Total Volume Locally Processed

	Total Scaled Volume of Timber Delivered to Local Processing Plants (m^3)	(a) Total Scaled Volume of Timber Originating Within the DFA (m^3)	(b) Total Scaled Volume of Timber Originating Within the DFA and Processed Within the DFA (m^3)	(b/a) % of Total DFA Volume Processed Locally
Conifer volume (m^3)	1,208,908	1,258,191	943,866	75%
Deciduous volume (m^3)	908,211	784,629	784,629	100%
All	**2,117,119**	**2,042,820**	**1,728,495**	**84.6%**

The above quoted volumes include woodlot and private wood, but exclude oil and gas salvage since the originating Timber Supply Area cannot be confirmed for salvage wood deliveries. Also excluded from the TSA delivery totals were deliveries from Alberta, Dawson Creek (including Site C salvage volumes).

The majority of the timber harvested in the DFA was processed at facilities within the DFA (84.6%).

Target Achieved	
✓ **Yes**	**No**

REVISIONS

There are no proposed revisions to this indicator or the target.

[19] Indicator as revised in Oct 30,2005 submission of 2004-2005 Annual Report

3.48. SUMMER AND FALL VOLUMES

Indicator Statement	Target Statement
Volume of timber (m^3) delivered annually to wood processing facilities within the Fort St. John Defined Forest Area (DFA) wood processing facilities between May 1st and November 30th.	Minimum of 100,000 m^3 to conifer mills in the DFA. Minimum of 185,000 m^3 to deciduous mills in the DFA.
SFM Objective: Maintain viable timber processing facilities in the DFA.	
Linkage to FSJPPR: N/A	

Acceptable Variance:

The target volumes assume planned production levels are achieved at the local mills. Allowable variances for the minimum acceptable deliveries may be reduced proportionally for the number of actual operating weeks, divided by the normal fifty operating weeks of the facilities per year.

CURRENT STATUS AND COMMENTS

Between May 1st, 2018 and November 30th, 2018, a total of 494,393m^3 was delivered to the Fort St. John sawmill, and a total of 491,941m^3 was delivered to the deciduous manufacturing facility to support continuing operations throughout the summer and fall. The total volumes delivered exceed the minimum volumes required to meet the target.

Target Achieved	
✓ **Yes**	**No**

REVISIONS

There are no proposed revisions to this indicator or the target.

3.49. FOREST HEALTH FOS PLANNING [20]

Indicator Statement	Target Statement
Percentage of new conifer-leading harvest blocks in the 2017 Forest Operations Schedule that are pine-leading.	A minimum of 50% of new conifer-leading harvest blocks in the 2017 FOS will be pine-leading.
SFM Objective: Maintain or enhance landscape level productivity. Maintain a natural range of variability in ecosystem function, composition and structure which allows ecosystems to recover from disturbance.	
Linkage to *FSJPPR*: For the purposes of Section 42 of the *FSJPPR* this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the Forest Health Management Landscape Level Strategy.	

Acceptable Variance:

A 10% variance (i.e. minimum of 40% new conifer leading blocks in the 2017 FOS will be pine leading) is required in the event some FOS proposed blocks are dropped prior to submission of the final FOS due to public input during or after the public review and comment period.

CURRENT STATUS AND COMMENTS

Approximately 16% of the blocks in FOS 2018 are pine leading. Much of the pine leading stands that were identified during planning exercises did not meet merchantability requirements when reviewed in the field. This is a function of beetle killed pine surpassing its shelf life.

Target Achieved	
Yes	✓ **No**

REVISIONS

Revisions to this indicator are being considered due to the decreasing level of merchantability of the pine leading stands and other emerging forest health concerns.

[20] New indicator in 2010- previous # 49 in SFMP # 1 was Harvest Systems which has been deleted

3.50. COORDINATION[21]

Indicator Statement	Target Statement
Percentages of SFMP's and FOS's jointly prepared by the Participants.	100% of all SFMP's and FOS's will be jointly prepared by the Participants.
SFM Objective: Maintain viable timber processing facilities in the DFA	
Linkage to *FSJPPR*: For the purposes of Section 42 of the *FSJPPR* this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the Timber Harvesting Landscape Level Strategy.	

Acceptable Variance:

May exclude new Participants that join the Pilot Project and can be assigned blocks from an existing plan, or Participants that are not required to complete a plan (e.g. timber supply license (TSL) holders).

CURRENT STATUS AND COMMENTS

FOS amendments continue to be coordinated through a mutual notification protocol. The participants were consistent in following the established amendment procedures, pertaining to ensuring that all participants are aware of, or are involved in, amendments to the FOS.

Target Achieved	
✓ **Yes**	**No**

REVISIONS

There are no revisions to this indicator and target.

[21] The indicator was made a legal indicator in SFMP#2 to emphasize the commitment to coordinated planning by the Participants

3.51. TIMBER PROFILE-DECIDUOUS [22]

Indicator Statement	Target Statement
The area (ha) of deciduous-leading cutblocks identified in Supply Block F for harvest during the term of the SFMP.	A minimum of 200 ha of deciduous-leading cutblocks located in Supply Block F will be identified for harvest during the term of the new SFMP.
SFM Objective: No decrease in the LTHL in the DFA.	
Linkage to *FSJPPR*: For the purposes of Section 42 of the *FSJPPR* this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the Timber Harvesting Landscape Level Strategy.	

Acceptable Variance:
None.

CURRENT STATUS AND COMMENTS
To date there has been no harvesting in deciduous-leading cutblocks located in Supply Block F. During the development of Forest Operations Schedule #3, a substantial amount of deciduous-leading area was identified for harvest in Supply Block F – over 4558.6ha. Table 21 presents a summary by block.

Table 21 Supply Block F Deciduous Leading Stand Proposed Harvest Area

BLOCK ID	At %	Ac%	Pl %	S %	Bl %	Gross Area (ha)
14014	93	2	0	5	0	11.9
14018	64	1	6	29	0	62.4
14020	86	0	0	14	0	42.8
14035	71	4	2	23	0	104
14039	67	0	1	26	0	18.7
14042	53	11	3	33	0	61.8
14044	64	0	19	15	0	141.4
14055	77	3	0	19	0	115.4
14056	86	0	7	6	0	46.1
14061	83	0	2	14	0	134.7
14063	59	0	3	38	0	58.4
16010	97	0	0	2	0	622.3
16011	82	0	11	7	0	107.3
16014	91	0	0	9	0	135
16015	99	1	0	0	0	63.5
17004	59	1	0	33	0	126.2
17008	76	0	0	7	0	22.9
41030	85	5	0	10	0	25.7
41040	58	0	18	24	0	266.2
41044	89	0	11	0	0	245.4

[22] New indicator in 2010 SFMP. Previous Indicator # 51 in SFMP # 1 was 'Utilization' which has been dropped

BLOCK ID	At %	Ac%	Pl %	S %	Bl %	Gross Area (ha)
41053	51	18	27	4	0	112.9
41054	48	6	31	15	0	80.9
41070	90	0	5	5	0	136.7
41096	75	0	0	25	0	20.9
42024	97	2	0	0	0	60.9
42026	79	0	0	16	0	49.2
50001	68	12	0	20	0	75.9
50002	95	0	0	5	0	20.9
50003	95	0	0	5	0	80.2
50004	60	10	3	27	0	169.7
50005	60	10	3	27	0	37.7
50007	95	0	0	5	0	38.3
50008	90	0	0	10	0	25.5
50009	90	0	0	10	0	17.5
50010	70	10	5	10	5	84.5
50011	90	0	0	10	0	4.4
50012	88	0	0	12	0	7.6
50013	80	10	2	8	0	57.6
50014	90	0	0	10	0	4.7
50015	70	10	0	20	0	10.7
50016	70	10	0	20	0	123.9
50017	70	10	0	20	0	49.3
50018	80	10	5	5	0	107.5
50020	90	0	0	10	0	17.5
50022	90	0	0	10	0	17
50023	90	0	0	10	0	7
50025	75	0	0	25	0	19.9
50026	90	0	2	8	0	114.2
50031	89	2	2	6	0	20.8
50034	74	3	0	23	0	38.2
50037	64	0	0	35	0	43.4
50038	81	0	0	19	0	55.2
50041	66	0	0	34	0	29.2
50047	85	0	15	0	0	18.4
51011	96	0	0	4	0	58.3
51013	66	0	0	34	0	168.5
51015	63	0	0	37	0	116
51019	73	0	0	27	0	45.5
					Total	4558.6

As noted in the above table, a total of 4,558.6 ha of deciduous-leading stands have been identified in Supply Block F.

Target Achieved	
✓ Yes	No

REVISIONS

This indicator will be reviewed for relevance in light of the partition requirements in the 2018 TSR.

3.52. TIMBER PROFILE-CONIFER

Indicator Statement	Target Statement
The percentage of the total cutblock area in harvested blocks that was identified as preharvest height-class two pine inventory types.	April 1, 2016-March 31, 2022: 8% or more of the total coniferous cutblock area harvested by managing participants during the 5-year period will be in height-class two pine inventory types.
SFM Objective: No decrease in the LTHL in the DFA.	
Linkage to FSJPPR: For the purposes of Section 42 of the FSJPPR this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the landscape level strategies.	

Acceptable Variance:

April 1st, 2016-March 31st, 2022: Allowable Minimum 0%. This indicator is to be reviewed after the next TSR to ensure relevance to the new TSR.

The dramatic shift in harvesting directed at Mountain Pine Beetle (MPB) infested or "at risk" stands has begun to decline as the "shelf life" for the dead standing pine is coming to a close, where the dead fibre is no longer suitable for milling. The impacts on mid-term AAC sustainability in the TSA are likely to be less if activities are directed towards maximizing harvest from the currently infested MPB areas, (which tend to be in larger diameter mixed pine/spruce stands) and away from lower risk, smaller diameter pine stands (i.e. height class two pine polygons). Harvest performance in height class two pine stands is no longer a pressing issue and was not identified as a priority in the TSR (Timber Supply Review) III AAC determination released May 10, 2018. For the 2019 reporting year, the Participants will no longer report on height class two pine harvest.

CURRENT STATUS AND COMMENTS

The Managing Participants have harvested 161.9 ha of height class two pine since the start of the period for this indicator. This equates to 1.1% of the total conifer leading cutblock area harvested in the period. The Managing Participants are within the acceptable variance of this indicator.

During the reporting period, Canfor received 1,022,383 m3 of coniferous logs from quota and Crown purchase sources, excluding oil and gas salvage and Woodlot license areas. The total received from the pine-leading log strata was 199,111 m3 approximately 19.5% of the total volume received from quota and Crown purchase sources.

Table 22: Height-class 2 Pine area harvested during the reporting period

Annual Report Period	Conifer Cutblock Merch Area - Canfor (ha)	Height class II Pine area - Canfor (ha)	Conifer Cutblock Merch Area - BCTS (ha)	Height class II Pine area - BCTS (ha)	Participants Height class II Pine area (%)
2016/17	3478.7	14.6	980.8	15.2	0.7%
2017/18	3201.7	7.1	1280.1	0	0.16%
2018/19	4524.7	69.9	1728.9	55.1	2.0%
Total	11205.1	91.6	3989.8	70.3	1.06%

Target Achieved	
✓ **Yes**	**No**

REVISIONS

In light of the 2018 TSR III AAC determination, the harvest of height class two pine is no longer considered a priority for forest management. This indicator will be revised.

3.53. CUT CONTROL

Indicator Statement	Target Statement
Percentage of total Allowable Annual Cut (AAC) charged to licensee tenure holders or BCTS Participants during the term of the SFMP.	Jan 1 2016- Dec 31 2021: Industry Participants: -Not to exceed 110% of the combined cumulative coniferous AAC for the 6 year period. -Not to exceed 110% of the combined cumulative deciduous AAC for the 6 year period. BCTS Participant: -Not to exceed 110% of the combined cumulative coniferous commitment offered for sale for the 6 year period. -Not to exceed 110% of the combined cumulative deciduous commitment offered for sale for the 6 year period.
SFM Objective: No decrease in the Long Term Harvest Level (LTHL) in the Defined Forest Area (DFA).	
Linkage to FSJPPR: N/A	

Acceptable Variance:

None, however the actual volume permissible to be harvested may be adjusted through time if additional licenses are awarded to Participants to address past undercuts, or changes made by the Chief Forester to the approved AAC for the TSA.

CURRENT STATUS AND COMMENTS

Tables 23, 24 & 25 identify the volume harvested by the Participants during the monitoring period established for this indicator.

Table 23: Licensee Conifer Licence AAC

Licence	AAC (m^3)	Planning Period Cumulative Volume AAC (m^3)	Volume Harvested (m^3) by Year						Total Volume Harvested (m^3)
			2016	2017	2018	2019	2020	2021	
Canfor A18154	394,952	2,369,712	554,418	764,246	500,738				**1,819,402**
DZ A56771	150,000	900,000	187,250	51,074	140,551				**378,875**
CRL A59959*	70,000	70,000	59,223	Exp	Exp				**59,223**
Tembec A60972	83,494	500,964	54,890	132,205	155,302				**342,397**
Total	**698,446**	**3,840,676**	855,781	947,525	796,591	0	0	0	**2,599,897**
Maximum Cumulative AAC (m^3)			**4,224,744**						
** In 2016 the CRL licence expired. The cumulative AAC has taken this into account*									
Maximum cumulative AAC = 110% of cumulative AAC									

Table 24: Licensee Deciduous Licence AAC

Licence	AAC (m^3)	Planning Period Cumulative Volume AAC (m^3)	Volume Harvested (m^3) by Year						Total Volume Harvested (m^3)
			2016	2017	2018	2019	2020	2021	
LP A60049	193,000	1,158,000	334,534	155,573	203,784				**693,891**
PVOSB A85946	150,000	900,000	-1,789	347,312	337,697				**683,220**
Canfor / LP PA 12 & 20*	500,000	3,000,000	29,771	12,935	150,888				**193,594**
Total	**843,000**	**5,058,000**	362,516	515,820	692,369	0	0	0	**1,570,705**
Maximum Cumulative AAC (m^3)			**5,563,800**						
**In 2013 PA 12 was subdivided creating PA 20. Combined AAC of the 2 PAs remains unchanged at 500,000 m3. AAC volumes for 2017 have not been finalized for PA12/20 yet. Volume is based on deliveries to the three facilities in the DFA.*									
Maximum cumulative AAC = 110% of cumulative AAC									

Tables 23 and 24 reflect adjusted volumes found in the most recent cut control statements. Annual adjustments can occur in each licence. Therefore, volumes reported in the annual report may not reflect previous annual reports.

Table 25: BCTS Volume Allotment

Species	AAC (m^3)	Planning Period 6 year cumulative volume commitment offered for sale (m^3)	Volume Offered for Sale by Calendar Year (m^3)						Total Volume Offered (m^3)
			2016	2017	2018	2019	2020	2021	
Conifer	372,059	2,232,354	443,210	293,742	524,095				1,261,047
Deciduous	180,000	1,080,000	60,245	92,486	215,761				368,492
Maximum cumulative coniferous AAC			**2,455,589**						
Maximum cumulative deciduous AAC			**1,188,000**						
Maximum cumulative AAC = 110% of cumulative AAC									

The annual BCTS coniferous allotment in 2018/19 was 372,059 m^3. Between April 1, 2018 and March 31, 2019, BC Timber Sales offered 524,095 m^3 (141%) of the annual allocation. Of the 524,095 m^3 offered, 27 TSL's with a volume of 524,095 m^3 sold.

The annual BCTS deciduous allotment in 2017/18 was 220,000 m^3. Between April 1, 2018 and March 31, 2019, BC Timber Sales offered 215,761 m3 (97.1%) of the annual allocation. Of the 215,761 m3 offered, six TSL's with a volume of 215,761 m3 sold.

2018 represented the third year of this 6-year cumulative cut review period, which concludes December 31, 2021.

To date of this annual report, the participants' activities are consistent with the indicator and target.

Target Achieved	
✓ **Yes**	**No**

REVISIONS

This indicator will be reviewed in light of the new AAC and TSR released in 2018.

3.54. Dollars Spent Locally on Each Woodlands Phase

Indicator Statement	Target Statement
Percentage of dollars spent locally on each woodlands phase in proportion to total expenditures.	Woodlands Phases to be monitored: Logging/hauling: minimum of 80%. Road construction/maintenance: minimum of 80%. Silviculture: minimum of 5%. Planning and administration: minimum of 50%.
SFM Objective: Diverse local forest employment opportunities exist in the DFA.	
Linkage to FSJPPR: N/A	

Acceptable Variance:

A 10% variance to the minimum target (e.g. logging/hauling 10% lower than 80%= 72% of costs) is required for each identified woodlands phase, as the dollars to be spent fluctuate annually, depending on the amount of harvesting completed that year.

CURRENT STATUS AND COMMENTS

Table 26 outlines local expenditures by woodlands phase, and performance of the participants relative to the targets for this reporting period.

Table 26: Dollars Spent Locally by Woodlands Phase – 2018

Combined BCTS & Canfor Phases	Total Dollars Spend ($)	Total Dollars Spent Locally ($)	Percentage of Dollars Spent Locally (%)	Indicator Target Percent (%)
Logging and Hauling	$ 87,822,783.39	$ 83,270,119.45	94.8%	80%
Reforestation	$ 4,858,061.33	$ 223,655.29	4.6%	5%
Road construction and maintenance	$ 8,581,612.38	$ 8,460,343.97	98.6%	80%
Planning and administration	$ 15,119,622.97	$ 9,874,775.16	65.3%	50%
Total	**$ 116,382,080.07**	**$101,828,893.88**	**87.5%**	

All four phases met the minimum targets for dollars spent locally. Reforestation was slightly under the target of 5%. With the allowed variance of 10% on the 5% target for reforestation, the minimum percentage was achieved. Approximately 87% of all expenditures were made locally.

It should be noted that BCTS costs for this indicator refer to April 1, 2018 - March 31, 2019, while other participant's costs are based on calendar year reports due to reporting limitations. This is consistent with previous annual reports for this indicator.

The participants' activities are consistent with three of the four targets associated with the indicator. Reforestation activities have met the acceptable variance for this indicator.

Target Achieved	
✓ **Yes**	**No**

REVISIONS:

The reforestation spend target was amended to 5% for the 2012 reporting year. This change became effective April 1, 2012.

3.55. DIRECT AND INDIRECT EMPLOYMENT

Indicator Statement	Target Statement
Level of direct and indirect employment.	Report the current level of direct and indirect employment expressed as a factor of harvest level times employment multiplier.
SFM Objective: Diverse local forest employment opportunities exist in the DFA.	
Linkage to FSJPPR: N/A	

Acceptable Variance:

None

CURRENT STATUS AND COMMENTS

2018 harvest level (based on cut control report in Ind 47) = 2,042,820m^3 deciduous and coniferous combined (D= 784,629m^3 C=1,258,191m^3)

During the reporting period, Participants reported a total of 667 full-time equivalent positions. A summary of the current level of direct and indirect employment are expressed as a factor of the harvest level in Table 27.

Table 27: Fort St. John TSA employment summary

Direct employment	Indirect and induced employment	Direct employment/1000m^3 harvested	Indirect employment/1000m^3 harvested	Total employment/1000m^3 harvested
667	467	0.33	0.23	0.56

*Employment multiplier is set at 1.7, a median number based on the 2002 Fort St John Timber Supply Analysis' suggested range (employment multiplier is not updated in TSR 3' analysis report).

Target Achieved	
✓ **Yes**	**No**

REVISIONS

No revisions planned for this indicator.

3.56. MAINTENANCE OF WILDLIFE AND FISHERIES HABITAT VALUES

Indicator Statement	Target Statement
Conformance to the SFMP indicators and targets pertinent to the maintenance of wildlife and fisheries habitat.	Participants will conform to the identified SFMP indicators and targets pertinent to the maintenance of wildlife and fisheries habitat.
SFM Objective: Recognition of Treaty 8 rights and respect of aboriginal rights through maintenance of landscape level biodiversity.	
Linkage to FSJPPR: N/A	

Acceptable Variance:

Variances provided in the specific indicators will apply.

CURRENT STATUS AND COMMENTS

During the period of April 1, 2018 to March 31, 2019 the participants conformed to 7 of 7 (100%) of the Ecosystem Diversity and Species Diversity indicators (indicators 2, 3, 5, 6, 7, 8 & 9), targets and acceptable variances.

The participants conformed to 4 of 4 (100%) of the Water Quality and Quantity indicators (indicators 34, 35, 36 & 37), targets and acceptable variances during this period.

Target Achieved	
✓ **Yes**	**No**

REVISIONS

There are no revisions proposed for this indicator at this time.

3.57. Number of Known Values and Uses Addressed in Operational Planning

Indicator Statement	Target Statement
Percentage of known traditional site-specific aboriginal values and uses identified that are addressed in operational plans .	100% of known traditional site-specific aboriginal values and uses identified will be addressed in operational plans.
SFM Objective: Respect known traditional aboriginal forest values and uses.	
Linkage to FSJPPR: N/A	

Acceptable Variance: None

CURRENT STATUS AND COMMENTS

Between April 1, 2018 and March 31, 2019, opportunity for First Nations to provide information on site-specific values to Canfor & BCTS was available through the formal processes of NIT (notice of intent to treat) communications, the FOS amendment info-sharing process as well as other formal or informal communication. Assessments by professional archaeologists are another method used by the participants to gather information on site-specific First Nations' values.

Of the 134 Canfor blocks that were permitted, Canfor provided mitigation tables for 134 blocks to address First Nations concerns. All other blocks had no concerns reported to Canfor.

Canfor has committed to the use of porta potties rather than dug-out pit toilets on all contracts going forward due to concerns by First Nations.

Canfor commissioned 47 Archaeological Overview Assessments (AOA) which identified 98 areas of potential (AOP). From the AOA process, 35 Archaeological Impact Assessments (AIA) were commissioned. Four new Archaeological site were identified from the AIAs and a number of the AOPs were verified as no arch potential.

Canfor also planned for 3 field visits with First Nations to gain better understanding of the traditional site-specific Aboriginal values, as well as making First Nations aware of contemporary issues such as spruce beetle and retention strategies. Aboriginal values were all considered and addressed in operational plans.

BCTS received comments from two First Nation bands regarding the identification of site specific values or value in response to the 2018 Notice of Intent to Treat (NIT) referral. The concerns raised by BRFN resulted in the removal of TSL A63412 block 1 from the proposed spray program. The concerns raised by the HRFN were a request to protect the integrity of moose habitat values on TSL A66558 blocks 1, 2, and 3. As a result, an enlarged buffer extending from the standing timber boundary was maintained as an edge effect to allow for species such as willow, alder and red-osier dogwood as well as aspen and cottonwood species established within this area to continue to provide browse opportunities for moose.

BCTS commissioned seven Archaeological Overview Assessments (AOA) which identified 53 areas of potential (AOP). From the AOA process, three Archaeological Impact Assessments (AIA) were completed. Four new sites of archaeological First Nation significance were discovered. Of these sites, each was removed from the harvesting boundary by the placement in a wildlife tree patch. For the other areas of potential, there was a commitment made by BCTS to harvest these areas in winter frozen ground conditions or suitable deep snow pack. Also no road is to be constructed within 20m of these identified areas.

As soon as it was brought to our attention, BCTS made a change to the seed mix formulation that would be applied for erosion control purposes on in-block and access roads for TSL's sold in the

Jedney area. This new forage mix, termed the Fort Nelson or Jedney mixture removed timothy and included some native species.

Of the 33 timber sale harvest authorizations requested for during the reporting period, eight mitigation tables were established to address First Nations concerns. All other blocks had no concerns reported to BCTS. The commitments made were addressed in operational plans, but since none of these TSL's have been set to logging complete, the demonstration of achieving these commitments has not yet been upheld. This will be identified in future annual reports.

100% of known traditional site-specific values and uses identified were addressed in operational plans.

Target Achieved	
✓ **Yes**	**No**

REVISIONS

There are no proposed revisions to the indicator or the target.

3.58. REGULATORY PUBLIC REVIEW AND COMMENT PROCESSES

Indicator Statement	Target Statement
Compliance with the public review and comment process identified in the FSJ Pilot Project Regulation.	100% compliance with the public review and comment processes identified in the FSJ Pilot Project Regulation.
SFM Objective: To facilitate a satisfactory public participation process.	
Linkage to FSJPPR: N/A	

Acceptable Variance:

No variances, unless authorized by the Regional Executive Director (MFLNRORD) or his designate.

CURRENT STATUS AND COMMENTS

During the reporting period, there were five cases where the Participants were required to follow the formal Public Review and Comment Process identified in the *Fort St. John Pilot Project Regulation*.

The Licensee Participants initiated two separate public reviews regarding amendments to the Forest Operations Schedule. The review and comment period for FOS amendment #340 was between June 28 and September 1, 2018. The review and comment period for FOS amendment #367 was between March 21 and May 20, 2018. The amendment proposals were advertised in the Alaska Highway News as well as on FSJ Now!, in a form acceptable to the District Manager of the Ministry of Forests, Lands, and Natural Resource Operations.

During the reporting period Canfor conducted three public reviews regarding audits. The results of all three audits were presented to the Public Advisory Group as per the SFMP. The Forest Management System internal audit occurred from June 12 to 15, 2018. The Canadian Standards Association external audit occurred from July 24 to 26, 2018. The Sustainable Forest Initiative transition audit occurred February 26 and 27, 2019.

The Participants are consistent with the target for the Public Review and Comment requirements set out in the Fort St. John Pilot Project Regulation.

Target Achieved	
✓ **Yes**	**No**

REVISIONS

There are no proposed revisions to this indicator or the target.

3.59. TERMS OF REFERENCE (TOR) FOR PUBLIC PARTICIPATION PROCESSES

Indicator Statement	Target Statement
Current Terms of Reference (TOR) for the *FSJPPR* public participation process.	Biennial review of the TOR for the *FSJPPR* public participation process (PAG).
SFM Objective: To facilitate a satisfactory public participation process.	
Linkage to FSJPPR: N/A	

Acceptable Variance:

The TOR will be reviewed at some point every second year (in even years). Due to the timing of meetings, the TOR review may not be in the same month each year.

CURRENT STATUS AND COMMENTS

The Public Advisory Group and the Pilot Participants conducted their biennial review of the Terms of Reference during the March 22, 2018 PAG meeting.

The PAG approved an updated TOR on March 22, 2018. The complete Terms of Reference is located on the pilot project website (http://fsjpilotproject.com). The next review is scheduled for the spring meeting of 2020.

Target Achieved	
✓ **Yes**	**No**

.

REVISIONS

There are no revisions proposed for this indicator at this time.

3.60. PUBLIC INQUIRIES

Indicator Statement	Target Statement
The percentage of timely responses to Public Inquiries.	Respond to 100% of public inquiries regarding Participants' forestry practices, that are additional to the Pilot Public Review and Comment processes, within one month of receipt.
SFM Objective: To facilitate a satisfactory public participation process. Relevant information used in decision making process is provided to PAG, general public and affected parties.	
Linkage to FSJPPR: N/A	

Acceptable Variance:

Responses will be provided to all inquiries, provided contact information is provided so that the Participants can reach the person making the inquiry.

CURRENT STATUS AND COMMENTS

The participants received ten public inquiries during the reporting period. The nature of the inquiries, and a general summary of response for each, follows below.

During the annual report period Canfor had the following inquiries from members of the public or stakeholders.

- 9 inquiries from range tenure holders were received.
- 2 inquiries from private land owners were received.
- 10 inquires from trapline tenure holders were received.
- Numerous inquires from the general public were received during the 2018 Fort St John Tradeshow.

In all the instances, Canfor responded to the inquiry as soon as possible and always within one month of receipt.

BCTS received one inquiry from a trapper during the annual report period. BCTS responded to the inquiry within one month of receipt.

All inquiries received by the participants during the reporting period were responded within one month of the receipt; therefore, the participants are in conformance with this indicator.

Target Achieved	
✓ **Yes**	**No**

REVISIONS

There are no revisions proposed for this indicator at this time. Note that inquiries related to the FOS, SFMP, or PMP received during established review and comment periods fall under indicator 58 (Section 3.58 of this document), and not measured here.

3.61. EDUCATIONAL OUTREACH

Indicator Statement	Target Statement
Number of people to whom information, presentations or field trips provided annually.	Minimum of 40 people provided information, presentations or field trips.
SFM Objective: Develop improved public understanding of SFM.	
Linkage to FSJPPR: N/A	

Acceptable Variance:
None

CURRENT STATUS AND COMMENTS

Canfor participated with BCTS in presenting a booth at the 2018 FSJ Trade Show. Over the course of the 3 days of the show, April 6-9, the Participants answered several questions on various forestry related topics. With the help of the Junior Forest Wardens, 1650 seedlings from Canfor and 1800 seedlings from BCTS as well as swag items were given out to people who stopped by the booth.

On October 16th 2018, Canfor employees acted as field workshop leaders in the 2018 Council of Forest Industries (COFI) and School District 60 (SD60) Careers in Natural Resource Management fall field camp for high school students. The sessions focused on the following themes: archeology, soils, ecology, forest protection, timber cruising, and silviculture and highlighted careers in Natural Resource Management.

Target Achieved	
✓ **Yes**	**No**

REVISIONS

There are no revisions proposed for this indicator at this time.

3.62. BRUSHING PROGRAM AERIAL HERBICIDE USE

Indicator Statement	Target Statement
The number of hectares removed annually from the participants' aerial herbicide plans based on input from First Nations or the public and final treatment layout.	The participants will report annually, the number of hectares removed from the participants' aerial herbicide plans based on input from First Nations or the public and final treatment layout.
SFM Objective: Involve First Nations in review of forest management plans, provide understanding of forest management plans.	
Linkage to *FSJPPR*: N/A	

Acceptable Variance:

None.

CURRENT STATUS AND COMMENTS

In 2018, Canfor had originally proposed to aerially herbicide 5887.6 ha as a vegetation management treatment. Based on input received from First Nations, the public and final treatment layout conducted by the participants, the actual aerial herbicide program was reduced to 2,196.8 ha treated. This reflects that 62.7% of the total area originally planned for treatment was removed from the final treatment area.

In 2018, BCTS had originally proposed to aerially herbicide 405.0 ha as a vegetation management treatment. Based on input received from First Nations, the public and final treatment layout conducted by the participants, the actual aerial herbicide program was reduced to 235.3 ha treated. This reflects that 41.9% of the total area originally planned for treatment was removed from the final treatment area.

Table 28: Herbicide Area Removal

Number of Hectares Removed Annually From Plan			
Participant	**Notification of Intent to Treat (NIT) (ha)**	**Remaining Area Post-Input from First Nation and Public and Final Layout (ha)**	**Final Treatment Area Reported (ha)**
BCTS	405.0	235.3	235.3
Canfor	5,887.6	2,775.6	2,196.8
Participants Total	**6,292.6**	**3,010.9**	**2,454.6**

Target Achieved	
✓ **Yes**	**No**

REVISIONS

There are no revisions proposed for this indicator at this time.

3.63. WORKER TRAINING

Indicator Statement	Target Statement
Percentage of managing participants' employees training that is consistent with training plans.	100% of managing participants' employees will have training consistent with training plans.
SFM Objective: Development of skilled workers.	
Linkage to FSJPPR: N/A	

Acceptable Variance:

10%. Employees having achieved a minimum of 90% of their training requirements will be considered, as being consistent with their training plans provided there is an action plan in place to complete outstanding training requirements. Action plans to rectify the training deficiencies are to be developed prior to completion of the SFMP annual report.

CURRENT STATUS AND COMMENTS

For the purposes of the 2018-2019 annual report, it was found that 37 out of 37 (100%) Canfor woodland employee records were within the 90% tolerance.

For the purposes of the 2018-19 annual reporting period, it was found that 13 out of 13 (100%) BCTS staff completed greater than 90% of their training requirements.

Canfor and BCTS are in conformance with the target of this indicator.

Target Achieved	
✓ Yes	No

REVISIONS

There are no revisions proposed for this indicator at this time.

3.64. PAG SATISFACTION SURVEYS

Indicator Statement	Target Statement
Level of satisfaction with the public participation process as measured by PAG surveys.	At least an 80% (average score of 4 out of 5) satisfaction level as measured from PAG surveys.
SFM Objective: Develop satisfaction with the public participation process.	
Linkage to FSJPPR: N/A	

Acceptable Variance:

- 10%. An average satisfaction level less than 80% will result in follow-up discussions with the PAG to identify opportunities for improving the level of satisfaction with the public participation process.

CURRENT STATUS AND COMMENTS

PAG members and advisors were asked to complete an anonymous public participation process satisfaction survey. The results were favorable. The average score for the satisfaction survey was 92.4%. The satisfaction survey continues to provide insight into areas for future improvement.

The participants are in conformance with the target of this indicator.

Target Achieved	
✓ **Yes**	**No**

REVISIONS

There are no revisions proposed for this indicator or target at this time.

3.65. AVAILABILITY OF INFORMATION ON ISSUES OF CONCERN

Indicator Statement	Target Statement
SFM monitoring report made available to the public.	SFM monitoring report made available to public annually.
SFM Objective: Develop improved public understanding of SFM.	
Linkage to FSJPPR: N/A	

Acceptable Variance:

- No variance.

CURRENT STATUS AND COMMENTS

The 2018 SFM Annual Report was posted to the Fort St. John Pilot project website and to the Canfor external website, for access to the public. Copies of the 2018 SFM Annual Report were also provided to the Fort St. John Public Advisory Group, the MFLNRORD and MOE.

Target Achieved	
✓ **Yes**	**No**

REVISIONS

There are no revisions proposed for this indicator or target at this time.

3.66. DELETIONS TO FOREST AREA

Indicator Statement	Target Statement
Percentage of the gross crown forest landbase in the DFA converted to non-forest land use through forest management activities of the participants during the term of SFMP# 3.	Less than 0.6% of the gross crown forest landbase in the DFA will be converted to non-forest land use through forest management activities of the participants during the term of SFMP# 3.
SFM Objective: Sustain forest lands within the participant's control within the DFA.	
Linkage to FSJPPR: N/A	

Acceptable Variance:

Additional +0.2%. The acceptable variance of +0.2% is required to provide the Participants flexibility to exceed the 0.6% target in the event that additional permanent road construction is needed to address unforeseen catastrophic forest disturbance events such as wildfires, insect or disease outbreaks, etc.

CURRENT STATUS AND COMMENTS

The Timber Supply Review for the Fort St John Timber Supply Area was completed in May, 2018. The TSR determined that the total area of the Fort St John is 4,676,602 hectares. Of the total TSA area, about 2,791,340 hectares (58 percent) is classified as productive Crown forest land base (CFLB).

The 2002 timber supply analysis revealed that reductions to the crown forest area managed by the MFLNRORD attributable to existing roads, trails and landings totaled 6,670 ha. This included roads constructed by various industries, including forestry to that point in time.

During the implementation of forest management activities under SFMP #1 between 2004 and 2010, the participants constructed a total of 1,605.8 km of new road as indicated in Table 31. The Participants assumed an average disturbance width of 20m (for out of block road) and 8m (for in block road) in the calculation of area disturbed due to permanent access construction. This 1,605.8 km of road equates to 3,211.7 ha or 0.12% of the crown forest landbase disturbed by the participants up to and including March 31, 2011.

Table 29: Road Area Constructed by Managing Participants since 2004 under SFMP # 1

	2004 (m)	2005 (m)	2006 (m)	2007 (m)	2008 (m)	2009 (m)	2010 (m)	Total (m)	Total (ha)
BCTS	121,435	169,810	71,994	57,873	50,288	33,745	22,281	527,426	1,054.9
Canfor	144,376	177,226	221,155	191,347	126,425	90,483	127,398	1,078,410	2,156.8
Total	**265,811**	**347,036**	**293,149**	**249,220**	**176,713**	**124,228**	**149,679**	**1,605,836**	**3,211.7**

Since the implementation of forest management activities under SFMP #2, the participants have constructed a total of 1,985.9 kms of new road as indicated in Table 30. The Participants assumed an average disturbance width of 20m in the calculation of area disturbed due to permanent access construction. This 1985.9 km of road equates to 3,971.8ha or 0.142% of the crown forest landbase disturbed by the participants up to and including March 31, 2018. Therefor the participants are in conformance with this indicator.

Table 30: Road Area Constructed by Managing Participants since 2011 under SFMP # 2

	2011 (m)	2012 (m)	2013 (m)	2014 (m)	2015 (m)	2016 (m)	2017 (m)	Total (m)	Total (ha)
BCTS	26,918	19,547	42,963	81,896	103,967	73555	55983	404,829	809.7
Canfor	234,983	258,571	217,563	164,800	231,137	177502	296508	1,581,064	3,162.1
Total	**261901**	**278118**	**260526**	**246696**	**335104**	**251057**	**352491**	**1,985,893**	**3,971.8**

Since the implementation of forest management activities under SFMP #3, the participants have constructed a total of 386.9 kms of new roads as identified in Table 31. The Participants assumed an average disturbance width of 20 m in calculation of area disturbed due to permanent access construction. The 386.9 kms of roads equate to 773.8 ha or 0.028% of the crown forest landbase disturbed by the Participants up to and including March 31, 2019. Therefore, the Participants are in conformance with this indicator.

Table 31: Road Area Constructed by Managing Participants since 2018 under SFMP # 3

	2018 (m)	Total (ha)
BCTS	67175	134.4
Canfor	251723	503.4
Total	**318898**	**637.8**

Target Achieved	
✓ **Yes**	**No**

REVISIONS

No revisions planned for this indicator

3.67. RARE ECOSYSTEMS

Indicator Statement	Target Statement
Percentage of the area of rare ecosystem groups reserved from harvest.	100% of the area of rare ecosystem groups will be reserved from harvest.
SFM Objective: Maintain the diversity and pattern of communities and ecosystems within a natural range.	
Linkage to FSJPPR: N/A	

Acceptable Variance:

10% of the total rare ecosystem group forest area may be harvested, where required to construct safe access or in situations where less overall environmental disturbance is created by building access through the rare ecosystem group versus building access to avoid the rare ecosystem group. Based on assessments completed by professionals, those sites deemed poor representations of the rare ecosystem group may be harvested.

CURRENT STATUS AND COMMENTS

Monitoring of management performance under this indicator will begin with cut blocks harvested after April 1, 2015.

For blocks with a harvest completion date between April 1, 2018 and March 31, 2019, the participants had the following results:

Canfor had eighteen blocks with potential rare eco identified in a geographic information system (GIS) query. All eighteen blocks were assessed in the field with no rare ecotypes found.

BCTS had no blocks with potential rare eco identified during the reporting period.

Target Achieved	
✓ **Yes**	**No**

REVISIONS

There are no revisions proposed for this indicator at this time.

3.68. EFFECTIVE COMMUNICATION – NON TIMBER RESOURCES

Indicator Statement	Target Statement
Evidence of communication and consideration of non-timber resources into forest management planning.	100% of non-timber resource values, identified through communication, have been responded to and considered and may be accommodated in forest management plans.
SFM Objective: Ongoing communication and meaningful engagement with stakeholders regarding non-timber forest benefits.	
Linkage to *FSJPPR*: N/A	

Acceptable Variance:

Variances are permissible only on reaching mutual agreement between the affected stakeholder and Participant.

CURRENT STATUS AND COMMENTS

During the reporting period between April 1, 2018 and March 31, 2019, Forest Operations Schedule (FOS) 340 and 367 were jointly prepared by Canfor and BCTS.

142 contacts were made with stakeholders during review of FOS 340. 9 Guide outfitters were contacted with information packages, 28 Trapline holders were contacted with information packages, 2 Trapline holders had meetings with BCTS and Canfor and their concerns were addressed. 105 Range tenure holders were contacted with information package, two different ranchers has several meeting regarding FOS 340 with BCTS and Canfor. Additionally, an advertisement outlining proposed amendment #340 was placed in the Alaska Highway News on June 28 & July 5, 2018 as well as advertised on FSJ Now! on June 25, 2018.

62 contacts were made with Stakeholders during review of FOS 367. 2 Guide outfitters were contacted with information packages, 53 Trapline holders were contacted with information packages, 7 Range tenure holders were contacted with information package. One range tenure holder got back with concerns and had five different discussions occurred between range tenure holder and BCTS and Canfor. Additionally, an advertisement outlining proposed amendment #367 was placed in the Alaska Highway News on March 21, 2019.

Canfor:

During the annual reporting period between April 1, 2018 to March 31, 2019, Canfor responded to, considered, and/or accommodated 21 inquiries and requests from stakeholders. In addition, 3 field visits were conducted to gain better understanding of stakeholders' concerns.

Notification and Intent to Treat Brushing/Silviculture activities were info-shared with 142 affected stakeholders. 4 engagement emails/phone calls were made proactively to inquire about stakeholders' concerns. 1 field visit was conducted to gain better understanding of stakeholders' concerns.

BCTS:

Notification and Intent to Treat Brushing/Silviculture activities were info-shared with 9 trapline holders and 3 range tenure holders during the reporting period between April 1, 2018 and March 31, 2019.

Target Achieved	
✓ **Yes**	**No**

REVISIONS

There are no revisions proposed for this indicator at this time.

3.69. EFFECTIVE COMMUNICATION – ABORIGINAL COMMUNITIES

Indicator Statement	Target Statement
Evidence of ongoing communication with Aboriginal communities and consideration of information gained.	100% of information on aboriginal titles and rights, identified through on-going communication with Aboriginal communities, has been responded to and considered and may be accommodated in forest management planning.
SFM Objective: Ongoing communication and meaningful engagement with First Nations.	
Linkage to *FSJPPR*: N/A	

Acceptable Variance:

No acceptable variance.

CURRENT STATUS AND COMMENTS

During the reporting period between April 1, 2018 and March 31, 2019, Forest Operations Schedule (FOS) 340 and 367 were jointly prepared by Canfor and BCTS.

43 contacts were made with 9 First Nations during review of FOS 340. 21 block specific comments were considered and accommodated.

36 contacts were made with First Nations during review of FOS 367. 6 block specific comments were considered and mitigated.

Canfor:

Canfor initiated bi-annual meetings with Treaty 8 First Nations to facilitate better info sharing and communication of Canfor's field layout operations and harvesting activities. Canfor met with six First Nations in the spring of 2019. First Nations' concerns and comments were considered and/or incorporated into the future plans.

Notification and Intent to Treat Brushing/Silviculture activities were info-shared with 9 affected First Nations.

In addition, during the reporting period between April 1, 2018 and March 31, 2019, 10 engagement emails/phone calls were made proactively to understand First Nations' concerns. 1 field trip was conducted

BCTS:

Notification and Intent to Treat Brushing/Silviculture activities were info-shared with 8 First Nations during the reporting period between April 1, 2018 and March 31, 2019.

BCTS contacted 8 First Nation groups about 4 sale schedule notifications from April 1, 2018 to March 31,2019.

Target Achieved	
✓ **Yes**	**No**

REVISIONS

There are no revisions proposed for this indicator at this time.

4. SUMMARY OF ACCESS MANAGEMENT

Table 32 represents a summary of access construction activities by participant:

Table 32: Summary of Participants' Road and Bridge Construction Activities

Steward	Bridge Construction	New Construction or Subgrade (metres)	Reconstructed or Reactivated (metres)	Surfacing (metres)	Grand Total (metres)
BCTS	0	67,175	9,024	0	76,199
Cameron River	0	0	0	0	0
Canfor Fort St. John	2	247,812	19,666	24,468	291,946
L.P.	0	0	2,900	0	2,900
Chetwynd Mechanical Pulp	0	0	0	0	0
Dunne Za	0	3,911	0	0	3,911
Grand Total	**2**	**318,898**	**31,590**	**24,468**	**374,956**

The Licensee Participants and BC Timber Sales access management activities for the period April 1, 2017 to March 31, 2018 are detailed in **Appendix 3 – Access Management**.

5. SUMMARY OF TIMBER HARVESTING

Table 33: Summary of Timber Volume Harvested by Licence in 2018-19

Participant/Licence	Conifer Licence Volume Harvested (m^3)	Deciduous Licence Volume Harvested (m^3)
Canfor - A18154	633,040	-
DZ - A56771	63,307	-
MPMC - A60972	87,495	-
LP - A60049	0	79,985
PVOSB - A85946	0	246,961
LP - PA 20	0	0
Canfor - PA 12	0	215,761
BCTS	524,095	1,188,000
Total	**1,307,937**	**1,730,707**

Table 34: Summary of Harvested Area by Licence in 2018-19

Participant/Licence	Gross Area (ha)	Merch Area (ha)
Canfor - A18154	2,585.5	2,152.0
DZ - A56771	267.6	219.5
MPMC - A60972	363.4	315.0
LP - A60049	348.5	313.5
PVOSB - A85946	1,018.9	905.8
LP - PA 20	0	0
Canfor - PA 12	720.6	618.9
BCTS	1,940.6	1,728.9
Total	**7,245.1**	**6,253.6**

6. SUMMARY OF BASIC FOREST MANAGEMENT (REFORESTATION)

A summary of the reforestation activities carried out by all participants is included in a variety of Tables within **Appendix 4 - Reforestation.** BCTS results are shown separately from other Licensee results.

Mixedwood Management

The commitment for the term of SFMP #2 regarding intimate mixtures of conifer and deciduous is to manage intimate mixtures on ten percent of the harvested mixedwood land base as operational trials.

BCTS

SFMP #1 – Licensees holding BCTS tenures harvested 5,966 ha of forested lands over the time of SFMP #1. Of this area, 2,708 ha was from stands classified by the percentage of net merchantable volume by species as being either conifer leading or deciduous leading mixtures (CD or DC). This equated to an amount of 270.8 ha of harvested area as a minimum commitment to manage towards intimate mixtures. At the end of SFMP #1, BCTS has designated a total of 282.2 ha as intimate mixtures, which is 10.4% of the mixedwood allocation area. This demonstrates achievement of the ten percent target over the term of the SFMP #1 by BCTS.

SFMP #2 – Licensees holding BCTS tenures harvested 15,224.3 ha of forested lands since the start of SFMP #2 to the end of the 2017 annual reporting period. Of this area, 2284.4 ha was from stands classified by the percentage of net merchantable volume by species as being either conifer leading or deciduous leading mixtures (CD or DC). This equates to an amount of 228 ha of harvested area as a minimum commitment to manage towards intimate mixtures. Currently BCTS has designated a total of 445.5 ha as intimate mixtures, which is 19% of the mixedwood allocation area. This demonstrates that BCTS is currently managing 9% (or 217.5 ha) above the 10% target over the term of the SFMP.

Licensee Participants

SFMP #1-Licensees harvested 55,079 ha of forested lands over the period of SFMP #1. Of this area, 10,884.3 ha was from stands classified by the percentage of net merchantable volume by species as being either conifer leading or deciduous leading mixtures (CD or DC). This equates to an amount of 1088.4 ha of harvested area as a minimum commitment to manage towards intimate mixtures. Currently participants have designated a total of 1312.5 ha as intimate mixtures, which is 12.05% of the mixedwood allocation area. This demonstrates that the licensee tenures are currently 2.05% (or 224.1 ha) above the 10% target over the term of the SFMP.

SFMP #2 – Licensees harvested 29,396.8 ha of forested lands since the start of SFMP #2 to the end of the 2017 annual reporting period. Of this area, 12,646.4 ha was from stands classified by the percentage of net merchantable volume by species as being either conifer leading or deciduous leading mixtures (CD or DC). This equates to an amount of 1264 ha of harvested area as a minimum commitment to manage towards intimate mixtures. Currently participants have designated a total of 1775.6 ha as intimate mixtures, which is 14% of the mixedwood allocation area. This demonstrates that the licensee tenures are currently 4% (or 511.6 ha) above the 10% target over the term of the SFMP.

7. INCREMENTAL FOREST MANAGEMENT (STAND TENDING)

There were no stand tending activities carried out between April 1, 2018 and March 31, 2019.

8. SUMMARY OF ANY VARIANCES GIVEN

There were no variances were given or received between April 1, 2018 and March 31, 2019.

9. COMPLIANCE

9.1. CONTRAVENTIONS REPORTED

The licensee participants reported 1 contravention between April 1, 2018 and March 31, 2019 to government agencies (MFLNRORD). The contravention was related to a buncher trespass.

Licensee participants received 1 notification of non-compliances by government agencies (MFLNRORD) between April 1, 2018 and March 31, 2019. The contravention was related to Cut-to-Length decks inspection.

BCTS reported 1 contravention between April 1, 2018 and March 31, 2019. Tickets were issued by C&E relating to the contravention, after an investigation.

BCTS received 0 notifications of non-compliances by government agencies (MFLNRORD) between April 1, 2018 and March 31, 2019.

A description of the contraventions reported can be found in **Appendix 5 – Compliance.**

9.2. COMPLIANCE AND ENFORCEMENT MEASURES IMPOSED BY THE GOVERNMENT UNDER PART 6 OF THE ACT

There were no compliance and enforcement penalties imposed or measures taken on licensee participants by the government under Part 6 of the Forest Practices Code of B.C. Act for activities completed between April 1, 2018 and March 31, 2019.

There were no compliance and enforcement penalties imposed or measures taken on BCTS by the government under Part 6 of the Forest Practices Code of B.C. Act between April 1, 2018 and March 31, 2019.

10. AMENDMENTS TO FDP'S OR FOREST OPERATIONS SCHEDULE

Table 35 is a summary of amendments for which notice was not required to be published, that were made from April 1, 2018 to March 31, 2019.

Table 35: Summary of FOS Amendments with No Publication Requirement (April , 2018 – March 31, 2019)

Plan	Licence	Amend-ment #	Date	Block / Road	Amendment Description	MFLNRORD Notified of Change
FOS	CANFOR	339	March 22,2018	01312,04281	Transfer block from Cc license to MPMC A60972	March 22,2018
FOS	CANFOR	341	April 15,2018	04073 Road 04-073-01	Road is greater than 200m from FOS proposed road.	April 15,2018
FOS	CANFOR	342	April 18, 2018	07088	Transferred block to A60972	April 18, 2018
FOS	CANFOR	343	May1, 2018	01250	01250 split into 01250 and 01355	May1, 2018
FOS	CANFOR	344	May 15,2018	Block 09114	Block 09114 has new access road which is under 200 m.	May 15,2018
FOS	CANFOR	345	May 25, 2018	Block 09126	Block 09126 has new access road which is under 200 m	May 25, 2018
FOS	CANFOR	346	May 30, 2018	Block 03099 road 3-099-00	Block 03099 access road is greater than 200 m but still within 200m of info shared.	May 30, 2018
FOS	CANFOR	347	N/A	08049, 08050, 08063	Merged Block 08049, 08050 and 08063 into one block.	Done but date N/A
FOS	CANFOR	348	July 12,2018	05045,05047, 05048	Transfer blocks 05045,05047,05048 from DZ license to A18154 license and 05047, 05048 merged into 05047	July 12,2018
FOS	BCTS	349	July 17,2018	10067, 10058	10067 and 10058 merged into one block 10067	July 17,2018
FOS	CANFOR	350	July 28,2018	45091,45115	45091 is split into 45091 and 45115;45091 remain in A18154 but 45115 is under PA12 license	July 28,2018

Plan	Licence	Amend-ment #	Date	Block / Road	Amendment Description	MFLNRORD Notified of Change
FOS	CANFOR	351	July 28, 2018	07047, 07055	Blocks license transferred to A18154	July 28, 2018
FOS	CANFOR	352	August 3,2018	45115	45115 was under PA12 license, moved to A60049 license	August 3,2018
FOS	CANFOR	353	June 7,2018	01143,01152 and 01294	01143,01152 was under LP license, moved to A60972 license and also 01294 was on CC license, moved to A60972 license	June 7,2018
FOS	CANFOR	354	August 31, 2018	01342,,01343 ,04271,04285 ,04267	01342 split into 01342 and 01349, license moved from Cc to A60972; 01343 split into 01343 and 01350, license moved from Cc to A60972;04271 was moved from license Cc to A60972; 04285 split into 04285 and 04346, license moved from Cc to A60972; 04267 split into 04267,04347 and 04348 04267 will remain on same license, for 04347 and 04348 license moved to A60972	August 31, 2018
FOS	CANFOR	355	September 12,2018	01298	01298 was moved from license Cd to A18154	September 12,2018
FOS	BCTS	356	September 27,2018	20067,20068, 20070,20071	20067 split into 20067 and 20112; 20068 split into 20068 and 20113; 20112, 20113 and 20071 will be under TA0442 license. Blocks 20067,20068,20069 and 20070 will be underA80058 license	September 27,2018
FOS	CANFOR	357	October 24,2018	09084,09085, 09089, 09090	09084,09085,09089 and 09090 will be under A60049 license from A85946	October 24,2018

Plan	Licence	Amend-ment #	Date	Block / Road	Amendment Description	MFLNRORD Notified of Change
FOS	CANFOR	358	November 8,2018	S24061, 24047	S24061 under CD license and 24047 on DZ license moved to A18154 license	November 8,2018
FOS	CANFOR	359	November 21,2018	14024,14022	Road is greater than 200m from FOS proposed road 14-022-00 and 14-024-00	November 21,2018
FOS	BCTS	360	December 7,2018	19071	19071 is split into 19071 and 19101	December 7,2018
FOS	CANFOR	361	December 13, 2018	14024	Split Block 14024 into two blocks	December 13, 2018
FOS	CANFOR	362	December 13, 2018	01342, 01345, 02344, 04297	Split Block 01342 into three blocks. Split Block 01345 into two blocks; two new block's licenses transferred to A60972. Block 02344's license transferred to A60972. Block 04297's license transferred to Block A60973.	December 13, 2018
FOS	CANFOR	363	December 30, 2018	10039,10076	10-039-00rd was thought to be bigger than 200 m road but actually it is under 200 m and under block 10076	December 30, 2018
FOS	CANFOR	364	January 2, 2019	04283	04283 split into 04283,04343 and 04344 and moved to A60972 from Cc license	January 2, 2019
FOS	CANFOR	365	January 11,2019	01344	01344 is split into 01344,01351 and 01354	January 11,2019
FOS	CANFOR	366	January 22,2019	14089	14089 has new access road which is under 200 m	January 22,2019

Plan	Licence	Amend-ment #	Date	Block / Road	Amendment Description	MFLNRORD Notified of Change
FOS	BCTS	368	March 1,2019	01227 and 01226	01227 and 01226 is merged into 01226	March 1,2019
FOS	BCTS	369	March 1,2019	19069, 19077; 19065,19066, 19067,19068;	19069 and 19077 merged into 19069; 19065,19066,19067 and 19068 merged into 19065; 19065,19069 and 19083 will be under TA0213 license	March 1,2019
FOS	BCTS	370	March 23,2019	07116,07117, 07054,01310, 01311,45100, 45094,45096, 45118,45053, 05066,05067, 05092,10057, 10065,,10062 ,45041,04258 ,04274,09129 ,01226,01276 ,01302,02304 ,01147,01151 ,01148	07116 and 07117 merged into 07116; 07054 and 07087 merged into 07054; 01310 and 01311 merged into 01310; 45100 and 45094 merged into 45100. 45096 split into 45096 and 45118; Increase of block area that do not exceed limits of section 20.2 (2) (e) (A) block 45053,05066,05067,05092,10057,10065,10062,45041,04258,04274,09129,01226,01276,01302,02304,01147,01151,01148	March 23,2019

Table 36 is a summary of major amendments made from April 1, 2018 to March 31, 2019 that went through the formal public review process.

Table 36: Summary of FOS Amendments with Publication Requirement (Apr1/18-Mar 31/19)

Plan	Licence	Amendment #	Date	Block/Road	Amendment Description	MOF Notified of Change Date
FOS	CANFOR/BCTS	340	Sept 12, 2018	Major Amendment	366 blocks and 107 roads are added on amendment	September 12, 2018
FOS	CANFOR/BCTS	367	July10, 2019	Major Amendment	15 Canfor blocks,2 BCTS blocks, 6 access to Canfor blocks, 6 access to BCTS blocks, 2 Canfor roads	July10, 2019

11. LANDSCAPE LEVEL STRATEGY IMPLEMENTATION

The landscape level strategies (LLS) provide the strategic direction to the participants' plans and operations.

The *Fort St. John Pilot Project Regulation* (FSJPPR) specifies the regulatory content of the SFMP. A sustainable forest management plan at a minimum must include landscape level strategies for all of the following:

- timber harvesting,
- road access management,
- patch size, seral stage distribution and adjacency,
- riparian management,
- visual quality management,
- forest health management, and
- range and forage management.

The SFMP #3 also includes a Landscape Level Reforestation Strategy and a Soil Management strategy.

The FSJPPR also requires the participants to ensure that each strategy contained in the plan specifies the performance indicators for evaluating whether or not the strategy has been successfully implemented. The participants will regularly review each of these indicators for appropriateness and evaluate performance and progress towards the associated targets.

A summary of these reviews and any proposals for change will be reported in the SFMP annual reports. The targets will be managed within the continuous improvement process as described in section 3.4 of SFMP #3[23].

Table 37 is a summary of the landscape level strategies and related performance indicators, (as identified in Table 8 of SFMP #3[24]) approved by the regional manager (MFLNRORD) and regional director (MOE) are:

Table 37: Landscape Level Strategies and Related Performance Indicators

SFMP #3 Landscape Level Strategy	Performance Indicators		
	Affecting Part 3 Division 5 of the FSJPPR (Indicator #)[25]	For Evaluation of LLS - Sec 42 of FSJPPR (Indicator #)[26]	Additional - not for regulatory approval (Indicator #)
Timber Harvesting	N/A	18,19, 20, 21, 50, 51,52	27, 48, 53
Road Access Management	24	24, 45	40
Riparian Management	7, 22	7, 22, 34, 36	
Range and Forage Management	N/A	10, 42	41
Patch Size, Seral Stage Distribution and Adjacency	6, 9	2, 3, 6, 9	
Forest Health Management	N/A	1, 2, 3, 13, 25, 49	26
Reforestation	13, 29	13, 28, 29, 30	14
Soil	N/A	4	
Visual Quality Management	44	44	

Following is a summary of the degree to which the participants achieved the indicators linked to each of the landscape level strategies:

11.1 TIMBER HARVESTING STRATEGY

Harvesting Strategy #1: Timber harvesting within the Crying Girl LU and the portion of the Graham LU that falls within the Graham River valley will be based on sequential clustered development. Operational harvest activities will be concentrated in one 'cluster' during a harvesting season to minimize costs, and to minimize the extent of industrial disturbance to wildlife. The total extent of allowable harvesting area will be consistent with the Graham Resource Integrated Management Plan (GRIMP) harvest schedule. Exceptions to this that may be required to address abnormal forest health and damaging events will be reviewed with the PAG and government agencies prior to conducting activities.

Indicator #18 - Graham Harvest Timing (Section 3.18): No harvesting occurred in the reporting period in the Graham. The participants were within the targeted number of clusters for harvest, and therefore in compliance with this indicator.

[23] See Section 3.4 "Continuous Improvement" on page 51 of SFMP #3.
[24] See Table 8 in Section 4 "Landscape Level Strategies" on page 54 of SFMP #3.
[25] Includes indicators related to both Sec35(5) and Sec35(6)of FSJPPR
[26] Indicators 2 (Seral Stage) and 3 (Patch Size) are Performance Indicators for both Strategy 4.5 and 4.6 from SFMP #3

Indicator #19 - Graham Merchantable Area Harvested (Section 3.19): The first reporting period finished in April 2007. The total area harvested in the first reporting period was 3,516 ha, while the maximum allowable harvest for the period was 3,638 (which had been amended downward from 3,869 ha as a result of transferring block 11058 from cluster 4 to cluster 6, as noted in the 2005-2006 Annual Report). The second reporting period ended in April 2012. The third period concluded April 2017. The fourth period will conclude April 2022. Since the beginning of period 2 to date of preparation of this report, no harvesting has occurred in the Graham. The participants are therefore consistent with the indicator's targeted range.

Harvesting Strategy #2: The Forest Connectivity Corridors that are identified in the Graham River IRM Plan area provide substantial connectivity for wildlife throughout the Plan area. Operational plans will respect the long-term primary components of these connectivity corridors. To ensure consistency with the original objectives of the GRIMP, government agencies will be consulted and their agreement obtained prior to proposing harvesting activities in any portion of the permanent corridors.

Indicator #20 - Graham Connectivity (Section 3.20): No new harvesting occurred in the Graham in the 2017-2018 reporting period. The participants are in conformance to this indicator's target and allowable variance. As well, GIS coverage was used as an overlay during the development of the FOS to ensure consistency of future blocks with this indicator.

Harvesting Strategy #3: Long term harvest plans will be prepared depicting the approximate location of blocks and roads, to address key wildlife and road access issues for one or more drainages within the Muskwa-Kechika Management Area (MKMA). These plans will be submitted to government and the public for review and comment prior to inclusion of any new proposed blocks in any FOS or similar plan.

Indicator #21 - MKMA Harvest (Section 3.21): Harvesting and associated road construction was previously completed in three grand parented blocks (20007, 20008, and 20060). No other activity has occurred in the MKMA, so the participants are consistent with the indicators related to this strategy. No harvesting occurred in the MKMA during the annual report period.

Timber Harvesting Strategy #4: Participants will plan harvesting activities in a manner that supports the maintenance of the current Allowable Annual Cut over the term of the SFMP, balancing economic considerations with the management assumptions included in the current AAC determination (TSR II) rationale.

Indicator #51 - Timber Profile - Deciduous (Section 3.51): During the development of Forest Operations Schedule #3, a substantial amount of deciduous-leading area was identified for harvest in Supply Block F – 4,558.6ha

Indicator #52 - Timber Profile – Coniferous (Section 3.52): The first 5-year period expired March 31, 2006. The participants' harvesting for that five-year period was 5.0% in height class two pine stands, which, while below the target of 8%, was equal to the minimum acceptable level of 5.0%. The next calculation of this indicator will occur at the end of the next five-year harvest period. It was recognized that achievement of this target in the current five-year period April 1, 2007- March 31, 2011, would be negatively impacted by the large-scale salvage harvesting programs currently implemented to address the mountain pine beetle infestation. Accordingly,

the variance for this period was revised to 0% at the March 6, 2008 Fort St. John Public Advisory Group meeting to provide flexibility to address the urgent forest health issue.

Very little new harvesting occurred in height class two pine stands during the second period in order to concentrate harvest activity on mountain pine beetle infested areas. During the 2011-2016 reporting period Canfor harvested 189.6 ha in height-class two pine inventory types of a total conifer stand type area of 31,542.9 ha harvested (1.4%) and BCTS harvested 169.1 ha in height-class two pine inventory types out of a total conifer stand type area of 4187.4 ha harvested (4.0%). The combined conifer harvest in height class 2 pine stands for the 2011 – 2016 reporting period is 2.0% (358.7 ha out of a total of 17,730.3 ha harvested).

The current 5 year period started April 1 of 2016. To date, the Managing Participants have harvested 161.9ha in height class two pine types which equates to 1.1% of the conifer harvest area. With a variance of 0%, the participants are within the variance for this indicator.

Harvesting Strategy #5: Support sustainable harvest levels by managing cut control levels and timber sale volumes sold that are consistent with the approved apportioned volumes within the TSA.

Indicator #53 - Cut Control (Section 3.53): The end of the monitoring period identified for indicator 53 was December 31, 2015.

The licensee six-year cumulative target for coniferous cut control volume is 4,609,744 m3. The actual harvested coniferous volume at the end of the period was 3,983,909 m3 (90% of the cumulative target).

The licensee six-year target cumulative deciduous cut control volume is 5,826,260 m3. The actual harvested volume for the period is 2,537,525 m3 (43.6% of the cumulative target).

The BCTS six-year target cumulative coniferous allotment volume is 2,864,854m3. The actual volume offered for sale in the reporting period was 1,870,823 m3 (65.4% of the cumulative target).

The BCTS six-year target cumulative deciduous allotment volume is 1,386,000m3. The actual volume offered for sale in the reporting period was 560,053 m3 (40% of the cumulative target).

The target for this indicator was met at the end of the last monitoring period.

The next cut control monitoring period will be January 1, 2016 – Dec 31, 2021. The results of the period will be presented at the time.

Harvesting Strategy #6: Participants will coordinate the planning of forestry operations to achieve business efficiencies, facilitate analyses of cumulative forest management impacts in relation to SFMP strategies, and provide consolidated information sharing and consultation products to interested parties in a Forest Operations Schedule.

Indicator #50 - Coordination (Section 3.50): The participants completed and submitted a coordinated FOS in October 2017 2010-11, and continued to coordinate and collaborate on FOS #3 amendments, therefore meeting the target for this indicator.

Harvesting Strategy #7: Identify suitable areas for summer and fall harvesting, and maintain deliveries during this time period sufficient to meet processing plant fibre requirements, while meeting environmental objectives.

Indicator #48 - Summer/Winter volumes (Section 3.48): Targets were met for both the coniferous sawmill and the OSB mill during the summer and fall of the reporting period.

Harvesting Strategy #8: Even-aged silviculture systems such as clearcuts, or clearcuts with reserves, will be the predominant silviculture systems employed, as these systems most closely parallel the even aged forests that result from natural disturbance events in the TSA. Where other resource values are particularly high, small patch or strip cuts may be proposed to maintain non-timber resource values, while allowing for some timber utilization. Modified shelterwoods will be employed in deciduous logging to protect coniferous understory on an operational trial basis, consistent with the reforestation strategy.

Indicator #27 - Silviculture Systems (Section 3.27): The participants met the target for this indicator; during the reporting period, even aged silviculture systems were used exclusively.

Timber Harvesting Strategy Summary: The participants conformed to all seven (100%) legal indicators, and 3 of 3 non legal indicators (100%) used to quantify conformance to the timber harvesting strategies.

11.2 ROAD ACCESS MANAGEMENT STRATEGY

Road Access Management Strategy #1: The percentage of permanent access structures may vary significantly within cutblocks, depending on block size, terrain, season, and the need to address other resource features. The revised field performance requirement, identified in the 2004 SFMP, will continue unchanged. Permanent Access Structure % will be assessed on a DFA-wide basis, rather than block-by-block, using three year rolling average measure expressed as a percent value. The value will be less than the original regulatory field performance requirement.

Indicator #24 - Permanent Access Structures (Section 3.24): Licensee participant's current permanent access structures area is at 4.5%, BCTS is at 2.9%, the participants combined PAS is 3.7%, therefore the participants are consistent with the target for this indicator.

Road Access Management Strategy #2: Forest industry road access in the Sikanni, Graham and Crying Girl LU's will be planned to maintain over time the primitive ROS class at 1996 levels, and maintain a component of semi-primitive non motorized ROS classes.

Indicator #45 - Recreation Opportunity Spectrum (Section 3.45): As no logging occurred in this area since 2007, the current status remains consistent with the target range for this indicator. As well, projections of proposed roads and blocks from the FOS #3 indicate that harvest plans will allow future activities through 2018 to be consistent with achieving these targets.

Road Access Management Strategy #3: Participants will communicate and provide the opportunity for forest industry access management plans to be shared with the oil and gas sector through the Oil and Gas Commission. This includes providing critical forest industry road

construction standards so that the forest industry road specifications can be linked with those of the oil and gas sector. Forest industry access plans encompassing all of the Participants' activities will be clearly identified within the Forest Operations Schedule (FOS). By making this information well known and easily available to the oil and gas sector, coordinated infrastructure developments within common operating areas can be implemented, thus eliminating duplicate entries and thereby reducing the amount of forest land converted to non-forest conditions and minimizing the negative impacts on other resources.

Indicator #40 - Coordinated Developments (Section 3.40) - The licensee participants proposed changes to 47 of the 119 referrals received, BCTS proposed changes to 8 of the 49referals recieved from Oil and Gas, to either coordinate development, or otherwise minimize impacts to the timber harvesting land base. The oil and gas company proponents agreed to implement many of these proposed changes. Participants noted that in many referrals oil and gas activities were already designed to reduce impacts to the timber harvesting land base. Licensee participants issued 268 Road use agreements to oil and gas companies.

Road Access Management Strategy Summary: The participants conformed to the two (100%) legal indicators, and 1 of 1 (100%) non legal indicators used to quantify conformance to the access management strategies.

11.3 Riparian Management Strategy

Riparian Management Strategy #1: Forestry operations adjacent to fish bearing S1, S2 and S3 streams will minimize negative effects on water quality by maintaining regulatory riparian reserve zones that meet or exceed the minimum widths included in Schedule D of the FSJPPR.

Indicator #7 - Riparian Reserves (Section 3.7): This is an indicator of progress related to maintaining riparian reserves as proposed by this strategy. The participants were in conformance to the target for this indicator during the reporting period.

Riparian Management Strategy #2: Qualified personnel will conduct assessments of streams that do not have mandatory reserve zones. Site-specific management practices will be incorporated into SLP's to protect streambanks, stream channel stability, and riparian vegetation, water quality, and other riparian values.

Indicator #36 - Protection of Stream banks and Riparian Values on Small Streams (Section 3.36): During the 2018 reporting period the participants had no instance of non-conformance to SLP riparian management measures. The participants were therefore in conformance with the target for this indicator during the reporting period.

Riparian Management Strategy #3: Plans developed for harvesting within the riparian corridors of major rivers will provide for a high level of forest retention for wildlife habitat, with new patch openings normally being one hectare or less in size within 100 metres of the rivers' Riparian Reserve Zone. A variety of silviculture systems can potentially be used to achieve this, including clearcut with reserves and partial cutting systems, employing methods such as strip cuts or patch cuts.

Indicator #22 - River Corridors (Section 3.22):, During the reporting period, no block harvest or road construction activities were conducted in major river corridors by Canfor or BCTS. The participants' activities are therefore consistent with the target for this indicator.

Riparian Management Strategy #4: Excessive runoff at the watershed level, which can disturb stream channel integrity and adjacent habitats, will be managed by limiting the extent of harvesting within watersheds, as determined through peak flow index analyses

Indicator #34 - Peak Flow Index (Section 3.34): The participants are consistent with the target for this indicator. No non-conformances to this indicator were identified to have taken place during this reporting period.

As part of the preparation of Forest Operations Schedule #3, a DFA wide analysis of watersheds was conducted. The analysis determined the impact of FOS #3 to each watershed's peak flow index, by modelling both the impact of the participants' total proposed harvest and the projected growth of forest stands. The analysis showed that all watersheds (104 of 105, 99%) are within the target threshold for peak flow upon completion of all harvest activities proposed in FOS #3 in 2025.

Riparian Management Strategy Summary: The participants conformed to the target or acceptable variance for 4 of the 4 (100%) legal indicators used to quantify conformance to the riparian management strategy.

11.4 RANGE AND FORAGE MANAGEMENT STRATEGY

Range and Forage Management Strategy # 1: The Participants will ensure range improvements damaged as a result of Participants' activities are restored to their pre-harvest condition in a timely manner, or as otherwise agreed to between the range tenure holder and Participant.

Indicator #42 - Damage to Range Improvements (Section 3.42): In this reporting period, the participants repaired fenceline within one year of the incident. Consequently, the participants are consistent with the indicator's target.

Range and Forage Management Strategy # 2: The participants will implement measures for grass seeding activities to minimize the risk introduction or spread of invasive plants due to forest management activities.

Indicator #10 - Noxious Weed Content (Section 3.10): All reclamation seed broadcast by the licensee participants and BCTS licensees during the reporting period is certified as having 0% content of prohibited and primary noxious weeds, and known invasive weed species of concern, as identified in the Sustainable Forest Management Plan. The participants were consistent with the targeted range for this indicator.

Range and Forage Management Strategy #3: The Participants will endeavor to create and implement mutually agreed action plans (TRAPs) with range tenure holders that address forage

and forest management overlap issues and other concerns, over the areas identified in the current Forest Operations Schedule.

Indicator #41 - Range Action Plans (Section 3.41): is the indicator which shows progress on this strategy. No Timber Range Action Plan (TRAP) was developed (signed) by the participants during the reporting period. One mutually agreed upon action plan was developed. Participants' operations were 100% consistent with the mutually agreed upon action plans for range during the reporting period.

Range and Forage Management Summary: The participants conformed to the target or acceptable variance for 2 of 2 legal indicators, and 1 of 1 (100%) non legal indicators used to quantify conformance to the range and forage management strategy.

11.5 Patch Size, Seral Stage Distribution and Adjacency Strategy

The general strategy implemented in the SFMP is to approximate the pattern, distribution and structure of natural disturbance events (primarily fire), consistent with information provided by Delong (2002).

Seral Stage Distribution Strategy

The seral stage distribution strategy is summarized in **Indicator #2 - Seral Stage (Section 3.2)**, where targets and timelines for achieving late seral stages for deciduous leading and coniferous leading stands, by NDU are presented. Where harvesting is proposed in areas falling below thresholds, there are requirements to spatially identify recruitment areas in Forest Operations Schedule.

The seral stage analyses conducted in 2016 to identify the current condition of the indicator and to identify the future condition of the indicator, assuming all blocks in FOS #3 are harvested by 2025, identified that the Participants' activities are in conformance with the requirements of this indicator. To date of preparation of this report, a significant amount of FOS #2 blocks remain unharvested.

Patch Size Strategy

The patch size distribution targets for early and mature patches for the duration of the SFMP are outlined in **Indicator #3 - Patch Size (Section 3.3).** The patch size analyses conducted in 2017 to identify the current condition of the indicator and to identify the future condition of the indicator assuming all blocks in FOS #3 are harvested by 2025, Identified that the participants' activities are in conformance with the requirements of this indicator.

In FOS #3 harvesting is proposed only in two of the of the ten NDU patch size combinations where the desired patch size distribution is not achieved by 2025. Of the two NDUs where harvesting is proposed, the patch targets are achieved in 4 of 6, or 67%, of the relevant patch size NDU combinations. In the 2 NDU patch size combination where harvesting does not achieve the desired patch size distribution, it must be noted that a slight improvement over the baseline condition (2010 condition) is achieved. This demonstrates a trend to moving toward achieving the desired patch size distribution over the course of implementation of FOS #3. Participants are in conformance with the target of having 9/18 baseline targets for early patches. The results of the FOS #3 analysis showed 12/18 baseline targets met.

Forest Structure and Adjacency

Indicators that measure the structure characteristics of natural disturbance patterns are Coarse Woody Debris and Wildlife Tree Patches.

Indicator #6 - Coarse Woody Debris (Section 3.6):

The current reporting period is December 1, 2016 - November 30, 2022. So far in this reporting period the CWD plots have shown 81 m^3/ha of CWD retained on harvested blocks. The participants are in conformance to this indicator.

Indicator #9 - Wildlife Tree Patches (Section 3.9):

Wildlife Tree Patches have cumulative targets by LU for harvesting initiated after November 15, 2001. The participants' activities are currently consistent with the targets for 6 of the 6 LU's that were harvested during the reporting period. No harvesting took place in the Milligan, Trutch, Sikanni, Graham, and Crying Girl LU's. The participants are in conformance with this indicator.

Adjacency

The strategies and indicators that deal with patch size, patch shape and seral stage distribution control both the amount and spatial distribution of the forested land base affected by forest management. The combined functions of managing for both early and mature patch sizes controls where harvesting can occur as well as what is left as intact mature forest over time. The seral stage indicator controls the amounts of the various age groups. The patch size indicators address both the size and shape of patches at the landscape level and over time. The CWD and Wildlife Tree Patch indicators provide structure within or adjacent to harvested areas. These processes manage the structural characteristics and the temporal and spatial distribution of forest patches such that a separate adjacency indicator strategy is not necessary.

Seral Stage Distribution Strategy Summary: The participants conformed to the targets for 4 of 4 (100%) legal indicators used to quantify conformance to the patch size, seral stage distribution and adjacency strategy.

11.6 Forest Health Management Strategy

Forest Health Strategy #1: To minimize the potential of catastrophic forest health events, the participants will apply the principles of Integrated Forest Health Management in the planning and implementation of forestry activities.

Indicators, strategies and implementation details for maintaining ecological processes are included in indicators dealing with **Forest Types (Indicator #1, Section 3.1), Seral Stage (Indicator #2, Section 3.2), and Patch Size (Indicator #3, Section 3.3) and Salvage (Indicator #26, Section 3.26)**. The participants are in conformance with the target for each of these indicators.

Forest Health Strategy #2: The Participants will identify potential forest health issues within their silviculture obligation areas (harvested blocks), and prioritize those that may have a significant impact on forest resources. Within their silviculture obligation areas, the Participants

will detect and monitor significant forest health agents in a timely manner, and, where potential impacts are significant, implement cost effective treatment controls where practical.

Indicator #25 - Forest Health (Section 3.25): The participants' activities were consistent with the targets for this indicator. Surveys conducted on obligation areas during the reporting period identified minor incidences of forest health damaging agents, primarily vegetation press, ungulate browse, and Cooley spruce gall adelgid, Western Gall Rust, Aspen Twig Blight, frost and hare browse.

Forest Health Strategy #3: Where practical, prioritize harvesting of conifer blocks to those areas that are most susceptible to prevalent significant and/or catastrophic forest health damaging agents.

Indicator #49 - Forest Health FOS Planning (Section 3.49): 15% of conifer blocks identified in FOS #3 are pine leading. The participants are not in conformance with this indicator or the variance.

FOREST HEALTH STRATEGY #4: Reduce forest health impacts from climate change.
Where practical, manage for climate change by implementing standards specified in the Chief Foresters Standard for Seed Use (CFSSU).

INDICATOR #13 - SEED USE (SECTION 3.13): The total number of seedlings planted by the participants were in compliance with the CFSSU.

Forest Health Strategy Summary: The participants' activities conformed to the target or acceptable variance for 5 of 6 (83%) legal indicators and 1 of 1 (100%) non legal indicators used to quantify conformance to the forest health strategy.

11.7 REFORESTATION STRATEGY

A) Discrete areas within cutblocks will be assigned an initial forest type designation (conifer, deciduous, or mixedwood). Applicable reforestation standards (coniferous, deciduous, or intimate mixedwood standard) that apply to each area will be tied to stocking standard ID's, which correspond to conifer, deciduous, or mixedwood stocking standards (i.e. declarations). These ID's will be submitted into the MFLNRORD tracking system (e.g. RESULTS - Reporting Silviculture Updates and Land Status Tracking System). Changes to stocking standard designations within cutblocks may occur prior to final assessment, and will be revised in RESULTS.

B) Timely establishment of new forests is important to support timber production objectives, and will be assessed based on the average length of time to establish trees on harvested sites.

C) Flexibility in the intensity of silviculture treatments will be used to enhance landscape level timber production, while allowing natural variability in stand development. This will be enabled by assessing reforestation success based on a cumulative 'landscape level' assessment of the area from each year's logging. Assessments will be completed separately for all deciduous and all coniferous declarations, based on a comparative measure of projected future volume production.

The strategy includes the following components:

1. Assigning Reforestation Standards to areas within cutblocks
2. Landscape Level Assessment of Reforestation
3. Stocking Standards and Crop Tree Requirements
4. Silviculture Performance Indicators

The Reforestation strategy has the following key features to:

- Set standards for reforestation to provide restocking of harvested areas.
- Provide a landscape level assessment of reforestation success for *coniferous and deciduous leading stands*, based on a comparative measure of future volume.
- Ensure that Professional Foresters will have professional accountability at the cut block level to vary regimes and provide for other values as they progress to a landscape level target for volume.
- Allow continuous improvement by providing feedback on landscape level reforestation success. Silviculture regimes and/or corrective action can be considered across the landscape and implemented in a cost effective manner that considers all values being managed.

Traditionally, reforestation success has not been measured at a landscape level. This strategy extends beyond previous practices and provides an additional measure to assure adequate management and conservation.

This strategy applies to all area harvested after November 15, 2001, under the FSJPPR. Participants may elect to include areas harvested under prescription between 1987 and November 15, 2001. A statement of election to include areas must be made in writing to the District Manager.

The following 4 indicators measure performance to the overall reforestation strategy of the participants:

Indicator #13 - Coniferous Seed (Section 3.13): This indicator measures conformance to the Chief Foresters Standards for Seed Use. 100% of seedlings planted by the participants were in conformance with the Chief Foresters Standards for Seed Use. The participants are in compliance with the indicator.

Indicator #28 - Species Composition (Section 3.28): This indicator measures the progress participants make in retaining relative consistent species composition between pre and post harvest operations on the landscape. The planted species percentages are within 20% of the cruise species percentages and therefore the participants are within the acceptable variance for this indicator and target.

Indicator #29 - Reforestation Assessment (Section 3.29): This indicator provides a landscape level assessment of reforestation success for *coniferous leading and deciduous leading stands*, based on a comparative measure of future volume. The participants are in compliance with this indicator.

Indicator #30 - Establishment Delay (Section 3.30): This indicator provides a broad view of the average amount of time being taken to confirm establishment of a new forest on conifer leading, deciduous leading and mixedwood harvested areas. BCTS and the licensee participants achieved the target for conifer and, deciduous, however the target for mixedwood establishment delay was not achieved. The participants are not compliance with this indicator.

Indicator #14 - Aspen Regeneration (Section 3.14): – ensures that reforestation of deciduous stands utilizes natural regeneration to ensure that the regenerated stand is genetically suitable for the site. The Participants are in conformance with this indicator.

Reforestation Strategy Summary: The participants conformed to 3 of the 4 legal indicator targets (75%) and 1 of 1 (100%) non legal indicators that measure conformance with the reforestation strategy.

11.8 Soil Management Strategy

Soil Management Strategy #1: The Participants will implement measures that ensure operations are conducted in a manner that addresses the inherent sensitivity of a site to soil degrading processes.

Indicator #4 - Soil Disturbance (Section 3.4): This indicator measures whether detrimental soil disturbance occurred during harvesting or reforestation activities on cutblocks. There were no incidents of detrimental soil disturbance reported by the participants during the reporting period.

Soil Management Strategy Summary: The participants conformed to 1 of the 1 (100%) of the legal indicators that measure conformance to the soil management strategy.

11.9 Visual Quality Management Strategy

Visual Quality Strategy #1: All forest operations carried out in scenic areas covered by an established visual quality objective (VQO) will be consistent with the objective, and in scenic areas without established VQO's all forest operations will be designed using appropriate visual design techniques to minimize visual impacts.

Indicator #44 - Visual Quality Objectives (Section 3.44): This indicator measures whether activities were consistent with VQO's during the reporting period, and is used to quantify conformance to the visual quality management strategy. The participants (Canfor and BCTS) completed 9 of 9 required assessments during the reporting period. The completed assessments concluded the VQO's were achieved on all 9 blocks.

Visual Quality Management Strategy Summary: The participants did conform to the target or acceptable variance for the one (100%) legal indicator used to quantify conformance to the visual quality management strategy.

Appendix 1: Fort St. John LU's and RMZ's

Fort St. John Landscape Units (LU's) and Resource Management Zones (RMZ's)

Landscape Units (LU) are based on updated Biogeoclimatic Ecosystem Classification (BEC) mapping, ecosection boundaries, Natural Disturbance Units (NDU's) and important administrative boundaries such as the revised district boundaries and the strategic land use boundaries of the Muskwa-Kechika Management Area (MKMA). In the absence of an administrative boundary, resource features such as main stem rivers (midpoint) or height of land were used wherever possible to provide logical natural boundaries for each LU. These boundaries often encompass multiple watersheds in mountainous terrain, and reflect similar BEC units, ecosections and Natural Disturbance Units.

The current LU boundaries are consistent with strategic boundaries and their respective objectives at the LRMP Resource Management Zone (RMZ) level, and allow the administrative areas to be managed without overlapping LU boundaries and fragmenting objectives during implementation.

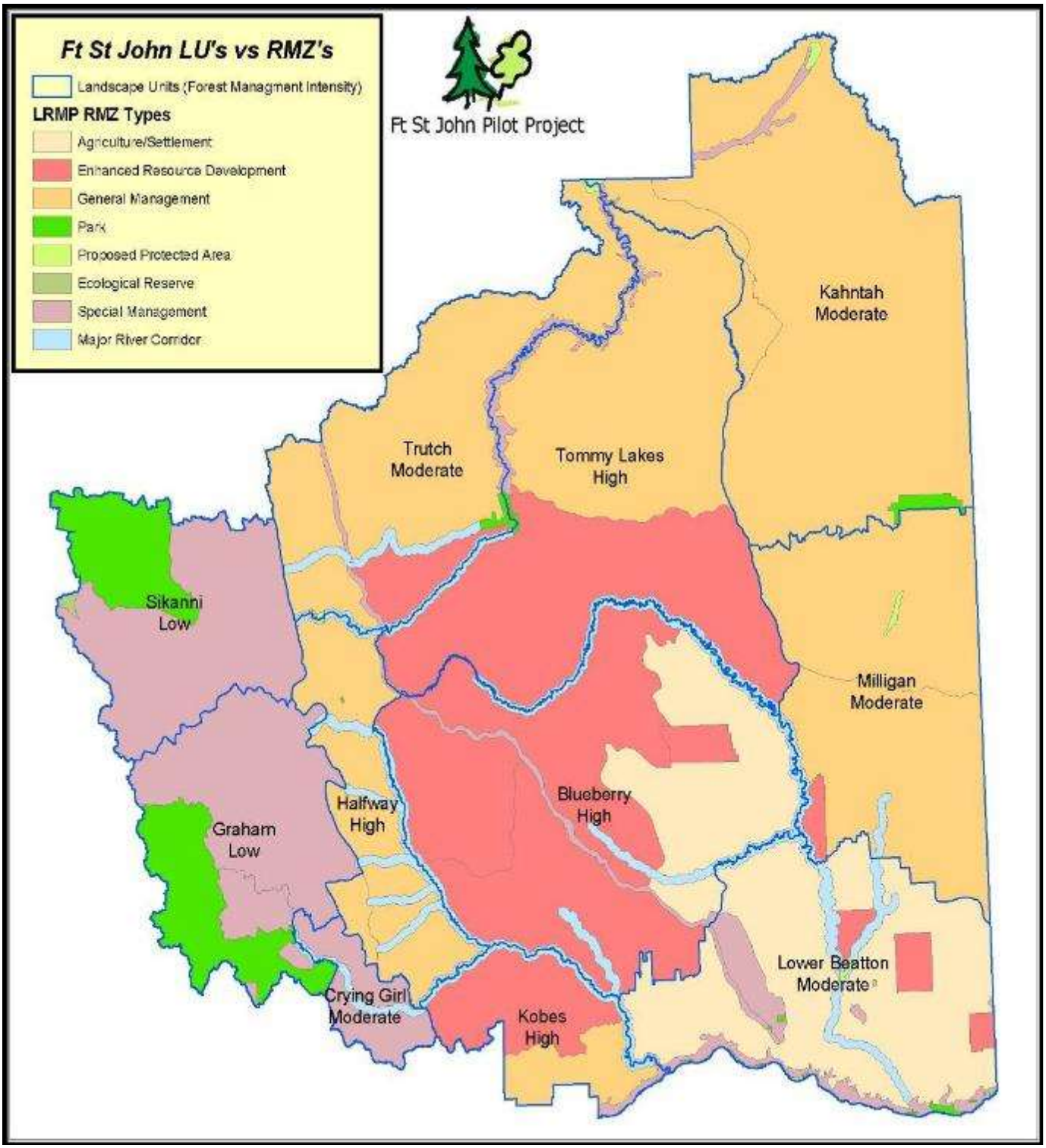

Figure 13: Fort St. John LU's and RMZ's

Appendix 2: CSA Sustainable Forest Management Matrix

Table 38: 47.0 CSA Matrix[27] Fort St. John Pilot Project SFM Matrix (Effective Feb 7, 2018)

CCFM[28] Criteria & CSA SFM Elements	Value	Objective	CSA core Indicator (reference only)	SFMP Indicator		Target
CCFM Criterion 1 – Conservation of Biological Diversity						
Conserve biological diversity by maintaining integrity, function and diversity of living organisms and the complexes of which they are part, including ecological elements that contribute to cultural values						
Element 1.1 – Ecosystem Diversity Conserve ecosystem diversity at the stand and landscape level by maintaining the variety of communities and ecosystems that naturally occur in the DFA. Establish forest plantations only in afforestation projects.	**Ecosystem Diversity**	**Maintain the diversity and pattern of communities and ecosystems within a natural range**	**1.1.1 – Ecosystem area by type.**	67 – Rare Ecosystems	Percentage of the area of rare ecosystem groups reserved from harvest	100% of the area of rare ecosystem groups will be reserved from harvest
				17 – Representative Examples of Ecosystems	Percentage of area of forest stands in an unmanaged condition, by leading species, by NDU	100% of baseline targets for forested stands in an unmanaged condition, by leading species, by NDU will be met
			1.1.2 – Forest area by type or species composition.	1 – Forest Types	Percent distribution of forest type (deciduous, deciduous mixedwood, conifer mixedwood, conifer) >20 years old by landscape unit	All forest type groups by landscape unit will meet or exceed the minimum area percentage in table 9
				28 – Species Composition	Relative change in plantation composition versus harvest composition for spruce and pine	The relative proportion of spruce and pine planted annually will equal the proportions harvested annually (excluding fill planting)

[27] matrix number reflects the PAG meeting at which it was approved.
[28] CCFM – Canadian Council of Forest Ministers

CCFM[28] Criteria & CSA SFM Elements	Value	Objective	CSA core Indicator (reference only)	SFMP Indicator		Target
			1.1.3 – Forest Area by seral stage or age class.	2 – Seral Stage	The minimum proportion (%) of late seral forest by NDU	The minimum proportion (%) of late seral forest by NDU as identified in table 11 will be met
				3 – Patch Size	Percent area by Patch Size Class (0-50, 51-100, and >100 ha) by NDU	A minimum of 9 of 18 of the baseline targets for early patches will be achieved during the term of this SFMP
			1.1.4 – Degree of within-stand structural retention.	5 – Snags / cavity Sites	Number of snags and/or live trees (>23 cm dbh) per ha on prescribed areas	Retain annually an average of at least 6 snags and/or live trees (>23cm dbh) per hectare on prescribed areas
				9 – Wildlife Tree Patches	Cumulative Wildlife Tree Patch percentage in blocks harvested under the FSJPPR in each Landscape Unit	Cumulative Wildlife Tree Patch % will meet or exceed the minimum target in each LU (Blueberry 9%, Halfway 6%, Kahntah 5%, Kobes 8%, Lower Beatton 3%, Milligan 4%, Tommy Lakes 8%, Trutch 5%, Sikanni 4%, Graham 4%, Crying Girl 3%)
Element 1.2 – Species Diversity Conserve species diversity by ensuring that habitats and forest conditions for the native species found in the DFA are maintained through time, including habitats for known	**Species Richness**	**Suitable habitat elements for indicator species. Maintain habitats for species at risk**	**1.2.1 – Degree of habitat protection for selected focal species, including species at risk. ---------- 1.2.2 – Degree of suitable habitat in the long term for selected focal species,**	5 – Snags / Cavity Sites	See indicator # 5	
				6 – Coarse Woody Debris Volume	Average retention level of Coarse Woody Debris volume/ (m^3/ha) on blocks logged in the DFA between December 1, 2016 and November 30, 2022	Average retention level over the DFA will be at least 46 m^3/ha (50% of average pre-harvest volume) on harvested blocks assessed between December 1, 2016 and November 30, 2022

CCFM[28] Criteria & CSA SFM Elements	Value	Objective	CSA core Indicator (reference only)	SFMP Indicator		Target
occurrences of species at risk.			**including species at risk.**	7 – Riparian Reserves	The number of non-compliances to riparian reserve zone standards	No non-compliances to riparian reserve zone standards
				8 – Shrubs	The proportion of shrub habitat (%) by Landscape Unit	Each landscape unit will meet or exceed the baseline target (%) proportion of shrub habitat
				9 – Wildlife Tree patches	See indicator # 9	
				11 – Species at Risk Stand Level Management Guidelines	The percentage of SLP's prepared annually for 'effected' cutblocks that incorporate one or more stand level species at risk management guidelines	100% of SLPs prepared annually for effected cutblocks will incorporate one or more species at risk management guidelines
				16 – Ungulate Winter Ranges, Wildlife Habitat Areas & MKMA	Proportion of activities consistent with the objectives of the Muskwa-Kechika Management Area (MKMA), and general wildlife measures for Ungulate Winter	All pilot Participant activities will be consistent with the objectives of the MKMA, and general wildlife measures for Ungulate Winter Ranges and Wildlife Habitat Areas
				17 – Representative Examples of Ecosystems	See indicator # 17	
			1.2.3 – Proportion of regeneration	10 – Invasive Plants / Noxious Weeds	The % prohibited and primary noxious weeds,	Seed mix analyses will have 0% content of prohibited and primary

CCFM[28] Criteria & CSA SFM Elements	Value	Objective	CSA core Indicator (reference only)	SFMP Indicator		Target
			comprised of native species.		and known invasive weed species of concern, in seed mix analysis	noxious weeds and known invasive plants, as identified in the most current publication of: "Listing of Invasive Plants", available from the Peace River Regional District
				13 – Coniferous Seeds	The percentage of seedlings and vegetative material used and planted in accordance with the Chief Forester's Standards for Seed Use (Nov.20, 2004) as amended from time to time	100% of seedlings and vegetative material will be used and planted in accordance with the Chief Forester's Standards for Seed Use (Nov.20, 2004), as amended from time to time
				14 – Aspen Regeneration	% natural regeneration of deciduous	100% natural regeneration for deciduous
Element 1.3 – Genetic Diversity Conserve genetic diversity by maintaining the variation of genes within species and ensuring that reforestation programs are free of genetically engineered trees	**Genetic Diversity**	**Conserve genetic diversity of tree stock**	**Non-Core**	13 – Coniferous Seeds	See indicator # 13	
				14 – Aspen Regeneration	See indicator # 14	

CCFM[28] Criteria & CSA SFM Elements	Value	Objective	CSA core Indicator (reference only)	SFMP Indicator		Target
Element 1.4 – Protected areas and sites of special biological, geological, heritage or cultural significance Respect protected areas identified through government processes. Co-operate in broader landscape management related to protected areas and sites of special biological or cultural significance. Identify sites of special biological, geological, heritage, or cultural significance within the DFA, and implement management strategies appropriate to their long-term maintenance.	**Protect areas and Conservation Emphasis areas, for example Special Management Zones, Ecological Reserves, etc**	**To have representative areas of naturally occurring and important ecosystems and rare physical environments protected at both the broad and site-specific levels across or adjacent to the DFA.** **Management strategies address important values in SMZ areas**	**1.4.1 –Protection of sites of special significance.** **----------** **1.4.2 – Proportion of identified sites with implemented management strategies.**	15 – Class A Parks, Ecological Reserves & LRMP Designated Protected Areas	Hectares of forestry related harvesting or road construction within Class A parks, protected areas, ecological reserves, or LRMP designated protected areas	Zero hectares of forestry related harvesting or road construction within Class A parks, protected areas, ecological reserves, or LRMP designated protected areas
				16 – Ungulate Winter Ranges, Wildlife Habitat Areas & MKMA	See indicator # 16	
				17 – Representative Examples of Ecosystems	See indicator # 17	
				18 – Graham Harvest Timing	The number of clusters in the Graham IRM Plan area where active operational harvesting is concurrently occurring	Operational harvesting within the Graham IRM Plan area will be constrained to no more than 1 ‘cluster’ of cutblocks at any one time
				19 – Graham Merch Area	Cumulative merchantable area (hectares) within blocks harvested in the Graham IRM Plan area since 1997	The cumulative merchantable area (hectares) within harvested blocks will not exceed the planned maximum cumulative harvest areas, as measured at the end of each time period: Period 2 (April 2012): 6569 ha; Period 3 (April 2017): 9355 ha; Period # 4 (ending April 2022): 10,858 ha

CCFM[28] Criteria & CSA SFM Elements	Value	Objective	CSA core Indicator (reference only)	SFMP Indicator		Target
				20 – Graham Connectivity	Area (hectares) harvested in cutblocks in the Graham IRM area, within the permanent alluvial and non-productive/non-commercial components of the connectivity corridors	Zero hectares harvested within cutblocks in the permanent alluvial and non-productive/non-commercial components of the connectivity corridors
				21 – MKMA harvest	The number of long term harvest plans within the MKMA completed and submitted to government	A minimum of one long-term harvest plan submitted no later than 1 year following government approval of a landscape unit objective under the MKMA Act, that applies to the Fort St. John TSA portion of the MKMA
				22 – River Corridors	The percentage of harvested areas that create openings greater than 1 hectare within 100 metres of RRZ's in identified major river corridors	No openings exceeding 1 hectare in blocks within the major river corridors harvested under the FSJPPR (i.e. after November 15, 2001)
				57 – Number of known Values and Uses addressed in Operational Planning	Percentage of known traditional site-specific aboriginal values and uses that are addressed in operational plans	100% of known traditional site-specific aboriginal values and uses identified will be addressed in operational plans

CCFM[28] Criteria & CSA SFM Elements	Value	Objective	CSA core Indicator (reference only)	SFMP Indicator		Target
CCFM Criterion 2 – Maintenance and Enhancement of Forest Ecosystem Condition and Productivity						
Conserve forest ecosystem condition and productivity by maintaining the health, vitality, and rates of biological production.						
Element 2.1 – Forest Ecosystem Condition and Productivity Conserve forest ecosystem productivity and productive capacity by maintaining ecosystem conditions that are capable of supporting naturally occurring species. Reforest promptly and use tree species ecologically suited to the site.	**Ecosystem Resilience / Ecosystem Productivity**	**Maintain a natural range of variability in ecosystem function, composition and structure with allows ecosystems to recover from disturbance and stress. Ecosystem functions capable of supporting naturally occurring species exist within the range of natural variability.** **Maintain or enhance landscape level productivity.**	**2.1.1 – Reforestation success.**	25 – Forest Health	Percentage of silviculture obligation areas with significant detected forest health damaging agents which have treatment plans developed for them	100% of silviculture obligation areas with significant forest health damaging agents will have treatment plans developed for them, and initiated within 1 year of detection
				27 – Silviculture Systems	Percentage of area harvested annually using even aged silviculture systems	Even aged silviculture systems will be employed on at least 80% of the total area harvested annually in the DFA
				28 – Species Composition	See indicator 28	
				29 – Reforestation Assessment	Predicted Merchantable Volume (PMV) (cubic meters) coniferous and separate deciduous surveyed areas. See indicator #2	Predicted Merchantable Volume will meet or exceed the Target Merchantable Volume (TMV). The TMV is set at 95% of the Maximum Predicted Merchantable Volume attainable on coniferous areas. The TMV is set at 90% of the Maximum Predicted Merchantable Volume attainable on deciduous areas

CCFM[28] Criteria & CSA SFM Elements	Value	Objective	CSA core Indicator (reference only)	SFMP Indicator		Target
				30 – Establishment Delay	Establishment Delay (years)	The area weighted average establishment delay for coniferous regeneration will not exceed two years. The area weighted average establishment delay for deciduous regeneration will not exceed three years. The area weighted average establishment delay for mixedwood stands regeneration will not exceed three years
			Non-Core	2 – Seral Stage	See indicator # 2	
				9 – Wildlife Tree Patches	See indicator # 9	
				24 – Permanent Access Structures	Percentage of the total area in Managing Participants' cutblocks occupied by permanent access structures, in which harvesting was completed, as determined on a 3 year rolling average	A maximum of 5% of the total area in Managing Participants' cutblocks occupied by permanent access structures in which harvesting was completed, as determined on a 3 year rolling average
				26 – Salvage	The relative proportion of area of merchantable fire-damaged stands salvaged within a management intensity class	The relative proportions of salvage will be highest in the high intensity zones, and lowest in the low intensity zones over the SFM Plan period (April 1, 2016 - March 31, 2022
				49 – Forest Health FOS Planning	Percentage of new conifer-leading harvest blocks in	A minimum of 50% of new conifer-leading harvest blocks in the

CCFM[28] Criteria & CSA SFM Elements	Value	Objective	CSA core Indicator (reference only)	SFMP Indicator		Target
					the 2017 FOS that are pine-leading	2017 FOS will be pine-leading
			2.1.2 – Proportion of regeneration comprised of native species.	13 – Coniferous Seeds	See indicator #13	
				14 – Aspen Regeneration	See indicator #14	
				28 – Species Composition	See indicator #28	
			2.1.3 – Additions and deletions to the forest area.	24 – Permanent Access Structures	See indicator # 24	
				40 – Coordinated Developments	Number of coordinated developments	Report annually the number of proposed coordinated developments that occurred
				66 – Deletions to Forest Area	Percentage of gross crown forest landbase in the DFA converted to non-forest land use through forest management activities of the participants during the term of SFMP #3	Less than 0.6% of the gross crown forest landbase in the DFA will be converted to non-forest land use through forest management activities of the participants during the term of SFMP #3
			2.1.4 – Proportion of the calculated long-term sustainable harvest level that is actually harvested.	25 – Forest Health	See indicator # 25	
				31 – Long Term Harvest Level	Long-term harvest level (LTHL) as measured in cubic metres per year (m^3/yr)	We will propose an Allowable Annual Cut (AAC) that sustains the LTHL of the Defined Forest Area (DFA)

CCFM[28] Criteria & CSA SFM Elements	Value	Objective	CSA core Indicator (reference only)	SFMP Indicator		Target
				32 – Site Index	Site index	Average post harvest site index will not be less than average pre-harvest site index on blocks harvested under the pilot project regulation
				53 – Cut Control	Percentage of total Allowable Annual Cut (AAC) charged to licensee tenure holders or BCTS Participants during the term of the SFMP	Jan 1 2016 - Dec 31 2021: Industry Participants: -Not to exceed 110% of the combined cumulative coniferous AAC for the 6 year period, -Not to exceed 110% of the combined cumulative deciduous AAC for the 6 year period. BCTS Participant: -Not to exceed 110% of the combined cumulative coniferous commitment offered for sale for the 6 year period, -Not to exceed 110% of the combined cumulative deciduous commitment offered for sale for the 6 year period

CCFM[28] Criteria & CSA SFM Elements	Value	Objective	CSA core Indicator (reference only)	SFMP Indicator		Target
CCFM Criterion 3 – Conservation of Soil and Water Resources						
Conserve soil and water resources by maintaining their quantity and quality in forest ecosystems.						
Element 3.1 – Soil Quality and Quantity Conserve soil resources by maintaining soil quality and quantity	**Soil Productivity**	**Protect soil resources to sustain productive forests**	**3.1.1 – Level of Soil Disturbance.**	4 – Soil Disturbance	Number of blocks with non-conformances to soil disturbance limits reported annually by Managing Participant	Zero blocks will have non conformances to soil disturbance limits
				32 – Site Index	See indicator # 32	
			3.1.2 – Level of downed woody material.	6 – Coarse Woody Debris Volume	See indicator # 6	
Element 3.2 – Water Quality and Quantity Conserve water resources by maintaining water quality and quantity	**Water Quantity**	**Maintenance of water quantity**	**3.2.1 – Proportion of watershed or water management areas with recent stand-replacing disturbance.**	34 – Peak Flow Index	The percentage of watersheds achieving baseline targets for the peak flow index and the percent of watershed reviews completed where the baseline target is exceeded	95% or more of the watersheds will be below the baseline target. All watersheds that exceed the baseline target will have a watershed review completed wherever new harvesting is planned
		Maintenance of water quality	**3.2.2 – Proportion of forest management activities, consistent with prescriptions to protect identified water features.**	7 – Riparian Reserves	See indicator # 7	
				35 – Water Quality Concern Ratings	The percentage of surveyed stream crossings annually identified with a high WQCR rating on forestry roads within the DFA for which participants have stewardship (*WQCR – water quality concern rating)	On an annual basis, fewer than 30% of the total number of surveyed stream crossings on roads for which the participants have stewardship will have 'High' WQCR

CCFM[28] Criteria & CSA SFM Elements	Value	Objective	CSA core Indicator (reference only)	SFMP Indicator		Target
				36 – Protection of Stream banks and Riparian Values of Small Streams	The number of annual non-conformances to SLP measures related to protecting stream bank, stream channel stability and riparian vegetation from harvesting or silviculture activities	No non-conformances to SLP measures related to protecting stream bank, stream channel stability and riparian vegetation from to harvesting or silviculture activities
				37 – Spills Entering Water Bodies	Number of spills of a reportable substance (i.e. antifreeze, diesel fuel, gasoline, greases, hydraulic oil, lubricating oil, methyl hydrate, paints and paint thinners, solvents, pesticides, and explosives) entering water bodies	Zero spills entering water bodies

CCFM[28] Criteria & CSA SFM Elements	Value	Objective	CSA core Indicator (reference only)	SFMP Indicator		Target
CCFM Criterion 4 – Forest Ecosystem Contributions to Global Ecological Cycles						
Maintain forest conditions and management activities that contribute to the health of global ecological cycles.						
Element 4.1 – Carbon Uptake and Storage Maintain the processes that take carbon from the atmosphere and store it in forest ecosystems.	**Carbon Uptake and Storage**	**Maintenance of the processes for carbon uptake and storage**	**4.1.1 – Net Carbon Uptake.**	24 – Permanent Access Structures	See indicator # 24	
				29 – Reforestation Assessment	See indicator # 29	
				30 – Establishment Delay	See indicator # 30	
				38 – Carbon Sequestration Rate	Maintenance of DFA Average carbon sequestration rates	Maintain DFA average carbon sequestration rates that are consistent with or greater than natural sequestration rates
				39 – Ecosystem Carbon Storage	The percentage of ecosystem carbon stored in the Fort St. John DFA relative to projected natural levels	Maintain ecosystem carbon storage at a minimum of 95% of projected natural storage levels
			4.1.2 – Reforestation Success. (2.1.1 – Reforestation Success)	See indicators # 25, 27, 28, 29, 30 (related to CSA z809-08 Core Indicator 2.1.1 above)		
Element 4.2 – Forest Land Conversion Protect forest lands from deforestation. Encourage afforestation where ecologically appropriate.	**Forest Land Base**	**Sustain forest lands within our control within the DFA**	**4.2.1 – Additions and deletions to the forest area. (2.2.1 - Additions and deletions to the forest area)**	See indicators # 24, 40, 55 (related to CSA z809-08 Core Indicator 2.2.1 above)		

CCFM[28] Criteria & CSA SFM Elements	Value	Objective	CSA core Indicator (reference only)	SFMP Indicator		Target
CCFM Criterion 5 – Multiple Benefits to Society						
Sustain flows of forest benefits for current and future generations by providing multiple goods and services.						
Element 5.1 – Timber and Non-Timber Benefits Manage the forest sustainably to produce a mix of timber and non-timber benefits. Support a diversity of timber and non-timber forest products and forest-based services.	**Timber and Non-Timber Multi-use Benefits**	**Provide opportunities for a feasible mix of timber, recreational activities, and non-timber commercial activities**	**5.1.1 – Documentation of the diversity of timber and non-timber resources, including products and services produced in the DFA.**	18 – Graham Harvest Timing	See indicator # 18	
				19 – Graham Merch Area	See indicator # 19	
				21 – MKMA harvest	See indicator # 21	
				31 – Long Term harvest Level (Timber)	See indicator # 31	
				41 – Range Action Plan	Percent consistency with mutually agreed upon action plans for range	Operations 100% consistent with resultant range action plans
				42 – Damage to Range Improvements	Number of range improvements damaged by Participants' activities	Zero range improvements damaged by Participants' activities
				43 – Recreation Sites (Non - Timber)	The number of recreation sites maintained by Participants	Participants will maintain a minimum of one recreational site within the DFA
				44 – Visual Quality Objectives	Consistency with Visual Quality Objectives (VQO's)	Pilot Participants' forest operations will be consistent with the established VQO's

CCFM[28] Criteria & CSA SFM Elements	Value	Objective	CSA core Indicator (reference only)	SFMP Indicator		Target
				45 – Recreation Opportunity Spectrum	Area in primitive and semi-primitive non-motorized classifications of the Recreation Opportunity Spectrum (ROS) for the Graham, Sikanni and Crying Girl LU's	A minimum of 65,839 ha in primitive ROS area (100% of 1996 primitive ROS area) and 180,726 ha in semi primitive non-motorized ROS area (50% of the 1996 total semi primitive NM ROS area) in the combined Graham, Crying Girl and Sikanni LU's (excluding the Graham Laurier and Redfern-Keily PA's)
				46 – Actions Addressing Guides, Trappers, and Other Interests	Percentage of operations consistent with mutually agreed upon action plans for guides, trappers and other known non-timber commercial interests	100% of operations will be consistent with action plans for guides, trappers and other non-timber commercial interests
				47 – Timber processed in the DFA (Timber)	Volume of timber processed in the DFA in proportion to volume harvested in the DFA	The annual equivalent of a minimum of 70% of the DFA's harvest is primary processed in the DFA
				48 – Summer and Fall Volume Deliveries	See Indicator # 48	
			Non – Core	51 – Timber Profile - Deciduous (Timber)	The area(ha) of deciduous leading cutblocks identified in Supply Block F for harvest during the term of the SFMP	A minimum of 200 ha of deciduous leading cutblocks located in Supply Block F will be identified for harvest during the term of the new SFMP

CCFM[28] Criteria & CSA SFM Elements	Value	Objective	CSA core Indicator (reference only)	SFMP Indicator		Target
				52 – Timber Profile - Coniferous (Timber)	The percentage of the total cutblock area in harvested blocks that was identified as preharvest height-class two pine inventory types	April 1, 2006 - March 31st, 2011: 8% or more of the total coniferous cutblock area harvested by managing Participants during the 5-year period will be in height-class two pine inventory types. April 1, 2011- March 31st, 2016: 8% or more of the total coniferous cutblock area harvested by managing Participants during the 5-year period will be in height-class two pine inventory types. April 1, 2016- March 31, 2022: 8% or more of the total coniferous cutblock area harvested by managing Participants during the 5-year period will be in height-class two pine inventory types.
				53 – Cut Control (Timber)	Percentage of total Allowable Annual Cut (AAC) charged to licensee tenure holders or BCTS Participants during the term of the SFMP.	Jan 1 2016 - Dec 31 2021: <u>Industry Participants</u>: -Not to exceed 110% of the combined cumulative coniferous AAC for the 6 year period -Not to exceed 110% of the combined cumulative deciduous AAC for the 6 year period

CCFM[28] Criteria & CSA SFM Elements	Value	Objective	CSA core Indicator (reference only)	SFMP Indicator		Target
						BCTS Participant: -Not to exceed 110% of the combined cumulative coniferous commitment offered for sale for the 6 year period -Not to exceed 110% of the combined cumulative deciduous commitment offered for sale for the 6 year period
			5.1.2 — Evidence of open and respectful communications with forest dependent businesses, forest users and local communities to integrate non-timber resources into forest management planning. When significant disagreement occurs, efforts towards conflict resolution are documented.	23 – Value and Total Number of contracts Awarded to First Nations	See Indicator # 23	
				41 – Range Action Plan	See indicator # 41	
				46 – Actions Addressing Guides, Trappers, and Other Interests	See Indicator # 46	
				47 – Timber Processed in the DFA	See Indicator # 47	
				54 – Dollars Spent Locally on Each Woodlands Phase	See indicator # 54	
				55 – Direct and Indirect Employment	See Indicator # 55	
				68 – Effective Communication – Non Timber Resources	Evidence of communication and consideration of non-timber resources into	100% of non-timber resource values, identified through communication, have been responded to and

CCFM[28] Criteria & CSA SFM Elements	Value	Objective	CSA core Indicator (reference only)	SFMP Indicator		Target
					forest management planning	considered and may be accommodated in forest management plans
Element 5.2 – Communities and Sustainability Contribute to the sustainability of communities by providing diverse opportunities to derive benefits from forests and by supporting local community economies.	**Sustainable and Viable Communities**	**Maintain viable timber processing facilities in the DFA. No decrease in the LTHL in the DFA**	**5.2.1 – Level of participation and support in initiatives that contribute to community sustainability.**	47 – Timber Processed in the DFA	See Indicator # 47	
				48 – Summer and Fall Volume Deliveries	Volume of timber (m^3) delivered annually to wood processing facilities within the Fort St. John Defined Forest Area (DFA) wood processing facilities between May 1st and November 30th	Minimum of 100,000 m^3 to conifer mills in the DFA, Minimum of 185,000 m^3 to deciduous mills in the DFA
				50 – Coordination	Percentages of SFMP's and FOS's prepared jointly by the Participants	100% of all SFMP's and FOS's will be jointly prepared by the Participants
				51 – Timber Profile - Deciduous	See indicator # 51	
				52 – Timber Profile - Coniferous	See Indicator # 52	
				54 – Dollars Spent Locally on each Woodlands Phase	Percentage of dollars spent locally on each woodlands phase in proportion to total expenditures	Woodlands Phases to be monitored:
						Logging/hauling: minimum of 80%
						Road construction and maintenance: minimum of 80%

CCFM[28] Criteria & CSA SFM Elements	Value	Objective	CSA core Indicator (reference only)	SFMP Indicator		Target
						Silviculture: minimum of 5%
						Planning and administration: minimum of 50%
				55 – Direct and Indirect Employment	Level of direct and indirect employment	Report the current level of direct and indirect employment expressed as a factor of harvest level times employment multiplier
			Non – Core	31 – Long Term Harvest Level	See Indicator # 31	
				53 – Cut Control	See Indicator # 53	
	Fair Distribution of Benefits and Costs	**Development of Skilled Workers**	**5.2.2 – Level of participation and support in training and skills development.**	63 – Worker Training	Percentage of managing participants' employees training that is consistent with training plans	100% of managing participants' employees will have training consistent with training plans
				12 – Forest Workers Safety	Implementation and maintenance of certified safety program	Each managing participant will implement and maintain a certified safety program
			5.2.3 – Level of direct and indirect employment.	48 – Summer and Fall Volume Deliveries	See Indicator # 48	
				54 – Dollars Spent Locally on Each Woodlands Phase	See Indicator # 54	
				55 – Direct and Indirect Employment	See Indicator # 55	

CCFM[28] Criteria & CSA SFM Elements	Value	Objective	CSA core Indicator (reference only)	SFMP Indicator		Target
CCFM Criterion 6 – Accepting Society's Responsibility for Sustainable Development						
Sustainable forest management includes society's responsibility for worker and community safety, and the requirement for fair, equitable, and effective forest management decisions.						
Element 6.1 – Fair and effective decision-making / Information for decision-making Demonstrate that SFM public participation process is designed and functioning to the satisfaction of the participants and that there is general public awareness of the process and its progress. Provide relevant information and educational opportunities to interested parties to support their involvement in the public participation process, and increase knowledge of ecosystem processes and human interactions with forest ecosystems.	**Opportunity for Public Participation**	**To facilitate a satisfactory public participation process. To develop satisfaction with the public participation process**	**6.1.1 – Level of participant satisfaction with the public participation process.**	59 – Terms of Reference (TOR) for the Public Participation Process	Current Terms of reference (TOR) for the FSJPPR public participation process	Biennial review of the TOR for the FSJPPR public participation process (PAG)
				64 – PAG Satisfaction Surveys	Level of satisfaction with the public participation process as measured by PAG surveys	At least an 80% (average score of 4 out of 5) satisfaction level as measured from PAG surveys
	Information for Decision-making	**Relevant information used in the decision making process is provided to PAG, general public, and affected parties**	**6.1.2 – Evidence of efforts to promote capacity development and meaningful participation in general.**	41 – Timber Range Action Plans	See Indicator # 41	
				46 – Actions Addressing Guides, Trappers, and Other Interests	See indicator # 46	
				58 – Regulatory Public Review and comment Process	Compliance with the public review and comment process identified in the FSJ Pilot Project Regulation	100% compliance with public review and comment processes identified in the FSJ Pilot Project Regulation
				59 – Terms of Reference (TOR) for the Public Participation Process.	See Indicator # 59	
				60 – Public Inquiries	The percentage of timely responses to public inquiries	Respond to 100% of public inquiries regarding Participants' forestry practices, that are additional to the

CCFM[28] Criteria & CSA SFM Elements	Value	Objective	CSA core Indicator (reference only)	SFMP Indicator		Target
						Pilot Public Review and Comment processes, within one month of receipt
				61 – Educational Outreach	Number of people to whom information, presentations, or field trips provided annually	Minimum of 40 people provided information, presentations, or field trips
				64 – PAG Satisfaction Surveys	See Indicator # 64	
			6.1.3 – Availability of summary information on issues of concern to the public.	60 – Public Inquiries	See Indicator # 60	
				65 – Availability of Information on Issues of Concern	SFM Monitoring report made available to the public annually	SFM monitoring report made available to the public annually
Element 6.2 – Safety Demonstrate that the organization is providing and promoting safe working conditions for its employees and contractors.	**Contribute to Worker and Public Safety. Communities Participate in the Use and Management of the Forest**	**Provide a safe work environment for DFA forestry workers and the public. Diverse local forest employment opportunities exist in the DFA**	**6.2.1 – Evidence of co-operation with DFA - related workers to improve and enhance safety standards, procedures, and outcomes in all DFA-related workplaces and affected communities.**	12 – Forest Workers Safety	See Indicator # 12	
			6.2.2 – Evidence that a worker safety program has been implemented and is periodically reviewed and improved	63 – Worker Training	See Indicator # 63	

CCFM[28] Criteria & CSA SFM Elements	Value	Objective	CSA core Indicator (reference only)	SFMP Indicator		Target
CCFM Criterion 7 – Aboriginal Relations						
Recognize and respect the unique rights and values of Aboriginal Peoples						
Element 7.1 – Aboriginal and Treaty Rights Recognize and respect Aboriginal title and rights, and treaty rights. Understand and comply with current legal requirements related to aboriginal title and rights, and treaty rights.	**Aboriginal and Treaty Rights**	**Recognition of Treaty 8 rights and respect of aboriginal rights through maintenance of landscape level biodiversity**	**7.1.1 – Evidence of a good understanding of the nature of Aboriginal title and rights.**	33 – First Nations Consultation & Information Sharing	Percentage of affected First Nations invited to participate in information sessions or presentations related to the participants' practices and /or plans (SFMP, FOS, and PMP's)	100% of affected First Nations will be invited to participate in information sessions or presentations related to the participants' practices and /or plans (SFMP, FOS, and PMP's)
				56 – Maintenance of Wildlife and Fisheries Habitat	Conformance to the SFMP indicators and targets pertinent to the maintenance of wildlife and fisheries habitat	Participants will conform to the identified SFMP indicators and targets pertinent to the maintenance of wildlife and fisheries habitat
			7.1.2 — Evidence of ongoing open and respectful communications with Aboriginal communities to foster meaningful engagement, and consideration of the information gained about their Aboriginal title and rights through this process. Where there is communicated disagreement regarding the organization's forest management activities, this evidence would include documentation	33 – First Nations Consultation & Information Sharing	Percentage of affected First Nations invited to participate in information sessions or presentations related to the participants' practices and /or plans (SFMP, FOS, and PMP's)	100% of affected First Nations will be invited to participate in information sessions or presentations related to the participants' practices and /or plans (SFMP, FOS, and PMP's)
				69 – Effective Communication – Aboriginal Communities	Evidence of ongoing communication with Aboriginal communities and consideration of information gained	100% of information on aboriginal titles and rights, identified through on-going communication with Aboriginal communities, has been

CCFM[28] Criteria & CSA SFM Elements	Value	Objective	CSA core Indicator (reference only)	SFMP Indicator		Target
			of efforts towards conflict resolution.			responded to and considered and may be accommodated in forest management planning
Element 7.2 – Respect for Aboriginal Forest Values, Knowledge and Uses Respect traditional Aboriginal forest values, knowledge, and uses as identified through the Aboriginal input process.	**Aboriginal Forest Values, and Uses**	**Respect known traditional aboriginal forest values and uses. Involve First Nations in review of forest management plans, provide understanding of forest management plans. Provide opportunities for First Nations to participate in forest economy.**	**7.2.1 — Evidence of efforts to promote capacity development and meaningful participation for Aboriginal individuals, communities and forest-based companies.**	23 – Value and Total Number of contracts Awarded to First Nations	Value and total number of contracts awarded annually to First Nations	Report the annual total value and number of contracts awarded to companies or groups owned or operated by First Nations
				33 – First Nations Consultation & Information Sharing	See Indicator # 33	
				57 – Number of Known values and Uses Addressed in Operational Planning	See Indicator # 57	
				60 – Public Inquiries	See Indicator # 60	
			7.2.2 – Evidence of understanding and use of Aboriginal Knowledge through the engagement of willing Aboriginal communities, using a process that identifies and manages culturally important resources and values.	33 – First Nation Consultation & Information Sharing	See Indicator # 33	
				57 – Number of Known values and Uses Addressed in Operational Planning	See Indicator # 57	
				62 – Brushing Program Aerial Herbicide Use	See Indicator # 62	
			7.2.3 – Level of management and/or protection of areas	33 – First Nations Consultation &	See Indicator # 33	

CCFM[28] Criteria & CSA SFM Elements	Value	Objective	CSA core Indicator (reference only)	SFMP Indicator		Target
			where culturally important practices and activities occur.	Information Sharing		
				57 – Number of Known values and Uses Addressed in Operational Planning	See Indicator # 57	
				62 – Brushing Program Aerial Herbicide Use	The number of hectares removed annually from the participants' aerial herbicide plans based on input from First Nations or the public and final treatment layout	The participants will report annually, the number of hectares removed from the participants' aerial herbicide plans based on input from First Nations or the public and final treatment layout

Appendix 3: Access Management

Table 39: Road Construction Activity – Forest Licensees 2018-2019

Road Steward	Road Name	POC[29]	POT[30]	Road Length (m)	Completion Date	Season	Operating Area	Method
Canfor	01-138-01	0	11	11	4/27/2018	Summer	Inga Lake	Upgrading
Canfor	01-138-01	0	947	947	4/27/2018	Summer	Inga Lake	Subgrade
Canfor	01-138-02	0	353	353	4/27/2018	Summer	Inga Lake	Subgrade
Canfor	01-138-03	0	526	526	4/27/2018	Summer	Inga Lake	Subgrade
Canfor	01-192-00	0	2438	2438	8/2/2018	Summer	Inga Lake	Subgrade
Canfor	01-192-01	0	242	242	8/2/2018	Summer	Inga Lake	Subgrade
Canfor	01-192-02	0	271	271	8/2/2018	Summer	Inga Lake	Subgrade
Canfor	01-232-00	0	611	611	7/5/2018	Summer	Inga Lake	Subgrade
Canfor	01-300-00	0	1521	1521	8/8/2018	Summer	Inga Lake	Subgrade
Canfor	01-300-01	0	356	356	8/8/2018	Summer	Inga Lake	Subgrade
Canfor	01-300-02	0	205	205	8/8/2018	Summer	Inga Lake	Subgrade
Canfor	01-305-00	0	1980	1980	8/27/2018	Summer	Inga Lake	Subgrade
Canfor	01-305-01	0	543	543	8/23/2018	Summer	Inga Lake	Subgrade
Canfor	01-305-02	0	780	780	8/15/2018	Summer	Inga Lake	Subgrade
Canfor	01-305-03	0	718	718	7/15/2018	Summer	Inga Lake	Subgrade
Canfor	01-305-04	0	622	622	8/3/2018	Summer	Inga Lake	Subgrade
Canfor	01-312-00	0	990	990	9/7/2018	Summer	Inga Lake	Subgrade
Canfor	01-312-00	0	990	990	10/25/2018	Summer	Inga Lake	Surfacing
Canfor	01-312-01	0	1190	1190	9/10/2018	Summer	Inga Lake	Subgrade
Canfor	01-312-01	0	1190	1190	10/22/2018	Summer	Inga Lake	Surfacing
Canfor	01-312-02	0	695	695	9/20/2018	Summer	Inga Lake	Subgrade
Canfor	01-312-02	0	695	695	10/25/2018	Summer	Inga Lake	Surfacing
Canfor	01-312-03	0	867	867	9/7/2018	Summer	Inga Lake	Subgrade
Canfor	01-312-03	0	867	867	10/25/2018	Summer	Inga Lake	Surfacing
Canfor	02-147-01	0	1427	1427	4/27/2018	Summer	South Blueberry	Subgrade
Canfor	02-147-02	0	119	119	4/27/2018	Summer	South Blueberry	Subgrade
Canfor	02-147-03	0	217	217	4/27/2018	Summer	South Blueberry	Subgrade

[29] POC – Point of Commencement
[30] POT – Point of Termination

Road Steward	Road Name	POC[29]	POT[30]	Road Length (m)	Completion Date	Season	Operating Area	Method
Canfor	02-177-00	0	1913	1913	7/5/2018	Summer	South Blueberry	Subgrade
Canfor	02-177-00	795	1913	1118	7/25/2018	Summer	South Blueberry	Surfacing
Canfor	02-177-01	0	643	643	7/5/2018	Summer	South Blueberry	Subgrade
Canfor	02-177-02	0	469	469	7/5/2018	Summer	South Blueberry	Subgrade
Canfor	02-177-02	0	469	469	7/25/2018	Summer	South Blueberry	Surfacing
Canfor	02-241-01	0	463	463	8/15/2018	Summer	South Blueberry	Subgrade
Canfor	02-241-02	0	391	391	8/11/2018	Summer	South Blueberry	Subgrade
Canfor	02-242-02	0	603	603	9/10/2018	Summer	South Blueberry	Subgrade
Canfor	02-243-00	1459	2016	557	7/15/2018	Winter	South Blueberry	Upgrading
Canfor	02-243-00	1861	2016	155	8/8/2018	Winter	South Blueberry	Surfacing
Canfor	02-309-04	0	630	630	7/15/2018	Summer	South Blueberry	Subgrade
Canfor	04-075-03	0	560	560	4/16/2018	Summer	Wonowon	Upgrading
Canfor	04-097-01	0	467	467	6/30/2018	Summer	Wonowon	Subgrade
Canfor	04-097-02	0	844	844	6/30/2018	Summer	Wonowon	Subgrade
Canfor	04-097-03	0	399	399	6/30/2018	Summer	Wonowon	Subgrade
Canfor	04-097-04	0	575	575	6/30/2018	Summer	Wonowon	Subgrade
Canfor	04-097-05	0	536	536	6/30/2018	Summer	Wonowon	Subgrade
Canfor	04-097-06	0	1470	1470	10/5/2018	Summer	Wonowon	Subgrade
Canfor	04-097-07	0	1025	1025	11/15/2018	Summer	Wonowon	Subgrade
Canfor	04-097-08	0	1477	1477	10/19/2018	Summer	Wonowon	Subgrade
Canfor	04-097-09	0	1383	1383	10/15/2018	Summer	Wonowon	Subgrade
Canfor	04-097-10	0	497	497	6/5/2018	Summer	Wonowon	Surfacing
Canfor	04-097-10	0	497	497	6/30/2018	Summer	Wonowon	Subgrade
Canfor	04-097-10	500	1301	801	12/18/2018	Summer	Wonowon	Subgrade
Canfor	04-102-00	0	475	475	6/5/2018	Summer	Wonowon	Surfacing
Canfor	04-102-00	0	860	860	6/30/2018	Summer	Wonowon	Subgrade
Canfor	04-260-00	0	1252	1252	6/30/2018	Summer	Wonowon	Subgrade
Canfor	04-260-01	0	520	520	6/30/2018	Summer	Wonowon	Subgrade
Canfor	04-260-02	0	539	539	6/20/2018	Summer	Wonowon	Subgrade
Canfor	04-265-00	0	1024	1024	6/30/2018	Summer	Wonowon	Subgrade
Canfor	04-278-00	0	1244	1244	4/16/2018	Summer	Wonowon	Subgrade

Road Steward	Road Name	POC[29]	POT[30]	Road Length (m)	Completion Date	Season	Operating Area	Method
Canfor	04-278-01	0	394	394	4/16/2018	Summer	Wonowon	Subgrade
Canfor	04-278-02	0	573	573	4/16/2018	Summer	Wonowon	Subgrade
Canfor	04-63410-02	1332	2051	719	4/15/2018	Winter	Wonowon	Reactivation
Canfor	04-63410-02	1332	2051	719	6/5/2018	Winter	Wonowon	Surfacing
Canfor	05-013-00	1969	4185	2216	1/15/2019	Summer	Aikman Creek	Reactivation
Canfor	05-035-00	0	2591	2591	12/15/2018	Summer	Aikman Creek	Subgrade
Canfor	05-035-01	0	807	807	12/15/2018	Summer	Aikman Creek	Subgrade
Canfor	05-044-00	0	5118	5118	9/5/2018	Summer	Aikman Creek	Subgrade
Canfor	05-044-00	1400	2020	620	9/26/2018	Summer	Aikman Creek	Surfacing
Canfor	05-044-00	2340	2580	240	9/27/2018	Summer	Aikman Creek	Surfacing
Canfor	05-044-00	3225	3350	125	9/27/2018	Summer	Aikman Creek	Surfacing
Canfor	05-044-00	4400	5118	718	9/27/2018	Summer	Aikman Creek	Surfacing
Canfor	05-046-00	0	540	540	11/9/2018	Winter	Aikman Creek	Subgrade
Canfor	05-046-01	0	96	96	11/15/2018	Winter	Aikman Creek	Subgrade
Canfor	05-047-02	0	1161	1161	10/15/2018	Summer	Aikman Creek	Subgrade
Canfor	05-047-03	0	623	623	10/28/2018	Summer	Aikman Creek	Subgrade
Canfor	05-081-00	0	1837	1837	11/15/2018	Summer	Aikman Creek	Subgrade
Canfor	05-081-02	0	542	542	11/15/2018	Summer	Aikman Creek	Subgrade
Canfor	05-081-03	0	362	362	11/15/2018	Summer	Aikman Creek	Subgrade
Canfor	05-081-04	0	517	517	11/15/2018	Summer	Aikman Creek	Subgrade
Canfor	05-084-01	0	390	390	3/29/2019	Summer	Aikman Creek	Upgrading
Canfor	05-084-01	393	615	222	1/15/2019	Summer	Aikman Creek	Subgrade
Canfor	05-089-01	0	2836	2836	1/15/2019	Winter	Aikman Creek	Subgrade
Canfor	05-089-02	0	647	647	1/15/2019	Winter	Aikman Creek	Subgrade
Canfor	05-089-04	0	289	289	1/15/2019	Summer	Aikman Creek	Subgrade
Canfor	05-089-05	0	516	516	1/15/2019	Summer	Aikman Creek	Subgrade
Canfor	05-089-06	0	250	250	1/15/2019	Summer	Aikman Creek	Subgrade
Canfor	05-090-00	0	4037	4037	1/15/2019	Summer	Aikman Creek	Subgrade
Canfor	05-090-00	4038	4737	699	3/1/2019	Summer	Aikman Creek	Subgrade
Canfor	05-090-01	0	982	982	3/1/2019	Summer	Aikman Creek	Subgrade
Canfor	05-090-01	0	982	982	3/29/2019	Summer	Aikman Creek	Subgrade

Road Steward	Road Name	POC[29]	POT[30]	Road Length (m)	Completion Date	Season	Operating Area	Method
Canfor	05-098-00	0	4744	4744	2/27/2019	Summer	Aikman Creek	Subgrade
Canfor	05-103-00	0	630	630	3/29/2019	Summer	Aikman Creek	Subgrade
Canfor	05-103-01	0	219	219	3/29/2019	Summer	Aikman Creek	Subgrade
Canfor	05-109-00	0	3079	3079	3/29/2019	Summer	Aikman Creek	Subgrade
Canfor	05-109-01	0	893	893	3/29/2019	Summer	Aikman Creek	Subgrade
Canfor	05-123-00	0	2430	2430	8/15/2018	Summer	Aikman Creek	Subgrade
Canfor	05-123-01	0	441	441	8/15/2018	Summer	Aikman Creek	Subgrade
Canfor	05-127-00	0	1017	1017	3/29/2019	Summer	Aikman Creek	Subgrade
Canfor	05-134-00	0	596	596	1/15/2019	Summer	Aikman Creek	Subgrade
Canfor	05-137-00	0	2123	2123	1/15/2019	Summer	Aikman Creek	Subgrade
Canfor	05-143-00	0	399	399	8/1/2018	Summer	Aikman Creek	Subgrade
Canfor	05-143-01	0	98	98	8/1/2018	Summer	Aikman Creek	Subgrade
Canfor	05-144-00	0	692	692	8/1/2018	Summer	Aikman Creek	Subgrade
Canfor	05-144-01	0	231	231	8/1/2018	Summer	Aikman Creek	Subgrade
Canfor	05-145-00	0	764	764	7/1/2018	Summer	Aikman Creek	Subgrade
Canfor	05-145-01	0	184	184	7/1/2018	Summer	Aikman Creek	Subgrade
Canfor	05-155-00	0	924	924	7/1/2018	Summer	Aikman Creek	Subgrade
Canfor	06-044-00	5226	7800	2574	9/15/2018	Summer	Blair Creek	Subgrade
Canfor	06-044-00	7801	10474	2673	10/15/2018	Summer	Blair Creek	Subgrade
Canfor	06-044-04	0	668	668	9/15/2018	Summer	Blair Creek	Subgrade
Canfor	06-044-05	0	1367	1367	9/15/2018	Summer	Blair Creek	Subgrade
Canfor	06-044-06	0	722	722	10/15/2018	Summer	Blair Creek	Subgrade
Canfor	06-044-09	0	414	414	10/15/2018	Summer	Blair Creek	Subgrade
Canfor	06-108-11	0	6171	6171	3/25/2019	Summer	Blair Creek	Reactivation
Canfor	06-117-00	0	2133	2133	9/15/2018	Summer	Blair Creek	Subgrade
Canfor	06-117-00	0	2133	2133	9/24/2018	Summer	Blair Creek	Surfacing
Canfor	06-117-01	0	100	100	9/15/2018	Summer	Blair Creek	Surfacing
Canfor	06-117-01	0	482	482	9/24/2018	Summer	Blair Creek	Subgrade
Canfor	06-117-02	0	466	466	9/15/2018	Summer	Blair Creek	Subgrade
Canfor	06-117-02	0	466	466	9/24/2018	Summer	Blair Creek	Surfacing
Canfor	06-127-00	0	1495	1495	8/15/2018	Summer	Blair Creek	Subgrade

Road Steward	Road Name	POC[29]	POT[30]	Road Length (m)	Completion Date	Season	Operating Area	Method
Canfor	06-127-00	0	1495	1495	9/17/2018	Summer	Blair Creek	Surfacing
Canfor	06-127-01	0	202	202	8/15/2018	Summer	Blair Creek	Subgrade
Canfor	06-127-02	0	565	565	8/15/2018	Summer	Blair Creek	Subgrade
Canfor	06-127-03	0	261	261	8/15/2018	Summer	Blair Creek	Subgrade
Canfor	06-128-00	0	1012	1012	8/1/2018	Summer	Blair Creek	Subgrade
Canfor	06-128-01	0	348	348	8/1/2018	Summer	Blair Creek	Subgrade
Canfor	07-023-02	0	139	139	11/15/2018	Winter	Donnie Creek	Reactivation
Canfor	07-047-00	0	1742	1742	12/15/2018	Summer	Donnie Creek	Subgrade
Canfor	07-047-01	0	480	480	12/15/2018	Summer	Donnie Creek	Subgrade
Canfor	07-047-02	0	121	121	12/15/2018	Summer	Donnie Creek	Subgrade
Canfor	07-047-03	0	342	342	12/15/2018	Summer	Donnie Creek	Subgrade
Canfor	07-052-00	0	444	444	12/19/2018	Summer	Donnie Creek	Subgrade
Canfor	07-052-01	0	388	388	12/12/2018	Summer	Donnie Creek	Subgrade
Canfor	07-052-02	0	1080	1080	12/1/2018	Summer	Donnie Creek	Subgrade
Canfor	07-055-00	0	5417	5417	2/13/2019	Summer	Donnie Creek	Subgrade
Canfor	07-055-01	0	1352	1352	2/13/2019	Summer	Donnie Creek	Subgrade
Canfor	07-055-04	0	503	503	2/13/2019	Summer	Donnie Creek	Subgrade
Canfor	07-084-01	0	228	228	11/15/2018	Winter	Donnie Creek	Subgrade
Canfor	07-084-03	0	898	898	11/15/2018	Winter	Donnie Creek	Subgrade
Canfor	07-084-04	0	576	576	11/15/2018	Winter	Donnie Creek	Subgrade
Canfor	07-084-05	0	202	202	11/15/2018	Winter	Donnie Creek	Subgrade
Canfor	07-084-06	0	115	115	11/15/2018	Winter	Donnie Creek	Subgrade
Canfor	07-085-00	0	728	728	12/1/2018	Summer	Donnie Creek	Subgrade
Canfor	07-086-00	0	984	984	12/1/2018	Summer	Donnie Creek	Subgrade
Canfor	07-086-01	0	118	118	12/1/2018	Summer	Donnie Creek	Subgrade
Canfor	07-089-00	0	1749	1749	12/1/2018	Summer	Donnie Creek	Subgrade
Canfor	07-089-02	0	333	333	12/1/2018	Summer	Donnie Creek	Subgrade
Canfor	07-100-00	0	1138	1138	2/27/2019	Summer	Donnie Creek	Subgrade
Canfor	07-135-00	0	3768	3768	12/1/2018	Summer	Donnie Creek	Subgrade
Canfor	07-135-01	0	265	265	12/1/2018	Summer	Donnie Creek	Subgrade
Canfor	07-135-02	0	710	710	12/1/2018	Summer	Donnie Creek	Subgrade

Road Steward	Road Name	POC[29]	POT[30]	Road Length (m)	Completion Date	Season	Operating Area	Method
Canfor	07-135-04	0	547	547	12/1/2018	Summer	Donnie Creek	Subgrade
Canfor	07-135-05	0	272	272	12/1/2018	Summer	Donnie Creek	Subgrade
Canfor	07-138-00	0	193	193	11/15/2018	Summer	Donnie Creek	Subgrade
Canfor	07-140-00	0	4551	4551	1/25/2019	Winter	Donnie Creek	Subgrade
Canfor	08-047-00	0	899	899	2/27/2019	Summer	Tommy Lakes	Subgrade
Canfor	08-047-03	0	410	410	3/28/2019	Summer	Tommy Lakes	Subgrade
Canfor	08-047-05	0	883	883	3/28/2019	Summer	Tommy Lakes	Subgrade
Canfor	08-047-05	1374	2149	775	3/28/2019	Summer	Tommy Lakes	Subgrade
Canfor	08-047-07	0	1027	1027	3/28/2019	Summer	Tommy Lakes	Subgrade
Canfor	08-047-10	0	461	461	3/28/2019	Summer	Tommy Lakes	Subgrade
Canfor	08-047-10	461	567	106	3/28/2019	Summer	Tommy Lakes	Subgrade
Canfor	08-047-10	567	694	127	3/28/2019	Summer	Tommy Lakes	Subgrade
Canfor	08-047-11	26	287	261	3/28/2019	Summer	Tommy Lakes	Subgrade
Canfor	08-047-12	304	414	110	3/28/2019	Summer	Tommy Lakes	Subgrade
Canfor	08-047-13	0	665	665	3/28/2019	Summer	Tommy Lakes	Subgrade
Canfor	08-050-00	6777	16182	9405	2/27/2019	Winter	Tommy Lakes	Subgrade
Canfor	08-050-01	0	989	989	2/27/2019	Summer	Tommy Lakes	Subgrade
Canfor	08-050-02	0	315	315	2/27/2019	Summer	Tommy Lakes	Subgrade
Canfor	08-050-03	0	362	362	2/27/2019	Summer	Tommy Lakes	Subgrade
Canfor	08-050-04	0	644	644	2/27/2019	Summer	Tommy Lakes	Subgrade
Canfor	08-050-05	0	374	374	2/27/2019	Summer	Tommy Lakes	Subgrade
Canfor	09-115-01	0	876	876	7/11/2018	Summer	Kobes Creek	Subgrade
Canfor	09-126-01	0	3338	3338	10/29/2018	Summer	Kobes Creek	Subgrade
Canfor	09-126-01	0	3338	3338	11/15/2018	Summer	Kobes Creek	Surfacing
Canfor	09-126-02	0	545	545	10/29/2018	Summer	Kobes Creek	Subgrade
Canfor	09-126-02	0	545	545	11/15/2018	Summer	Kobes Creek	Surfacing
Canfor	09-132-00	0	1906	1906	10/29/2018	Summer	Kobes Creek	Subgrade
Canfor	09-132-00	0	1906	1906	11/15/2018	Summer	Kobes Creek	Surfacing
Canfor	09-132-01	0	329	329	10/29/2018	Summer	Kobes Creek	Subgrade
Canfor	09-132-02	0	1055	1055	10/29/2018	Summer	Kobes Creek	Subgrade
Canfor	09-132-02	0	1055	1055	11/15/2018	Summer	Kobes Creek	Surfacing

Road Steward	Road Name	POC[29]	POT[30]	Road Length (m)	Completion Date	Season	Operating Area	Method
Canfor	10-028-00	0	1032	1032	2/1/2019	Summer	Blue Grave Creek	Subgrade
Canfor	10-028-01	0	419	419	2/1/2019	Summer	Blue Grave Creek	Subgrade
Canfor	10-028-02	0	224	224	2/1/2019	Summer	Blue Grave Creek	Subgrade
Canfor	10-029-00	0	1143	1143	3/29/2019	Winter	Blue Grave Creek	Subgrade
Canfor	10-029-01	0	198	198	3/29/2019	Winter	Blue Grave Creek	Subgrade
Canfor	10-029-02	0	210	210	3/29/2019	Winter	Blue Grave Creek	Subgrade
Canfor	10-038-00	0	263	263	12/15/2018	Summer	Blue Grave Creek	Subgrade
Canfor	10-038-01	0	1711	1711	12/15/2018	Summer	Blue Grave Creek	Subgrade
Canfor	10-038-02	0	268	268	12/15/2018	Summer	Blue Grave Creek	Subgrade
Canfor	10-038-03	0	202	202	12/15/2018	Summer	Blue Grave Creek	Subgrade
Canfor	10-050-00	0	992	992	12/15/2018	Summer	Blue Grave Creek	Subgrade
Canfor	10-050-01	0	419	419	12/15/2018	Summer	Blue Grave Creek	Subgrade
Canfor	10-050-02	0	942	942	12/15/2018	Summer	Blue Grave Creek	Subgrade
Canfor	10-050-03	0	595	595	12/15/2018	Summer	Blue Grave Creek	Subgrade
Canfor	10-050-04	0	319	319	12/15/2018	Summer	Blue Grave Creek	Subgrade
Canfor	10-050-05	0	1399	1399	12/15/2018	Summer	Blue Grave Creek	Subgrade
Canfor	114-500	0	2385	2385	8/2/2018	Winter	Inga Lake	Subgrade
Canfor	19-039-00	0	1855	1855	8/15/2018	Summer	Laprise Creek	Subgrade
Canfor	19-039-00	0	1855	1855	10/15/2018	Summer	Laprise Creek	Surfacing
Canfor	19-039-01	0	709	709	8/15/2018	Summer	Laprise Creek	Subgrade
Canfor	19-039-02	0	1448	1448	8/15/2018	Summer	Laprise Creek	Subgrade
Canfor	19-039-02	0	1448	1448	10/15/2018	Summer	Laprise Creek	Surfacing
Canfor	23-046-00	0	1292	1292	4/6/2018	Summer	Cameron River	Subgrade
Canfor	23-046-01	0	707	707	4/6/2018	Summer	Cameron River	Subgrade
Canfor	23-046-02	0	622	622	4/6/2018	Summer	Cameron River	Subgrade
Canfor	23-046-03	0	133	133	4/6/2018	Summer	Cameron River	Subgrade
Canfor	23-108-00	1628	2279	651	5/3/2018	Summer	Cameron River	Upgrading
Canfor	23-108-01	0	628	628	5/3/2018	Summer	Cameron River	Upgrading
Canfor	23-108-06	0	1203	1203	9/17/2018	Summer	Cameron River	Subgrade
Canfor	23-108-07	0	612	612	9/17/2018	Summer	Cameron River	Subgrade
Canfor	23-108-08	0	635	635	9/17/2018	Summer	Cameron River	Subgrade

Road Steward	Road Name	POC[29]	POT[30]	Road Length (m)	Completion Date	Season	Operating Area	Method
Canfor	23-115-01	0	313	313	5/3/2018	Summer	Cameron River	Subgrade
Canfor	23-115-01	313	968	655	4/11/2018	Summer	Cameron River	Subgrade
Canfor	24-062-00	0	3367	3367	5/1/2018	Summer	Jedney Creek	Subgrade
Canfor	24-062-01	0	1371	1371	5/1/2018	Summer	Jedney Creek	Subgrade
Canfor	24-062-02	0	1424	1424	5/1/2018	Summer	Jedney Creek	Subgrade
Canfor	24-062-03	0	222	222	5/1/2018	Summer	Jedney Creek	Subgrade
Canfor	24-062-04	0	212	212	5/1/2018	Summer	Jedney Creek	Subgrade
Canfor	24-062-05	0	243	243	5/1/2018	Summer	Jedney Creek	Subgrade
Canfor	24-062-06	0	180	180	5/1/2018	Summer	Jedney Creek	Subgrade
Canfor	24-065-01	0	86	86	5/1/2018	Summer	Jedney Creek	Subgrade
Canfor	24-067-00	0	110	110	5/1/2018	Winter	Jedney Creek	Upgrading
Canfor	24-285-00	0	993	993	5/1/2018	Summer	Jedney Creek	Subgrade
Canfor	24-285-01	0	558	558	5/1/2018	Summer	Jedney Creek	Subgrade
Canfor	24-285-02	0	464	464	5/1/2018	Summer	Jedney Creek	Subgrade
Canfor	24-286-00	0	589	589	5/1/2018	Summer	Jedney Creek	Subgrade
Canfor	24-288-00	0	538	538	5/1/2018	Summer	Jedney Creek	Subgrade
Canfor	24-303-00	266	1451	1185	4/27/2018	Winter	Jedney Creek	Subgrade
Canfor	24-303-01	0	389	389	4/27/2018	Winter	Jedney Creek	Subgrade
Canfor	24-303-02	0	179	179	4/27/2018	Summer	Jedney Creek	Subgrade
Canfor	24-303-03	0	626	626	4/27/2018	Summer	Jedney Creek	Subgrade
Canfor	24-303-06	0	221	221	4/27/2018	Summer	Jedney Creek	Subgrade
Canfor	24-311-00	0	1369	1369	11/9/2018	Winter	Jedney Creek	Subgrade
Canfor	24-311-01	0	402	402	11/12/2018	Winter	Jedney Creek	Subgrade
Canfor	43-053-00	0	1335	1335	5/1/2018	Summer	Cache Creek	Subgrade
Canfor	43-054-00	0	914	914	5/1/2018	Summer	Cache Creek	Subgrade
Canfor	43-055-00	0	3077	3077	5/1/2018	Summer	Cache Creek	Subgrade
Canfor	43-055-01	0	2031	2031	5/1/2018	Summer	Cache Creek	Subgrade
Canfor	43-055-02	0	612	612	5/1/2018	Summer	Cache Creek	Subgrade
Canfor	43-055-03	0	902	902	5/1/2018	Summer	Cache Creek	Subgrade
Canfor	43-055-05	0	832	832	5/1/2018	Summer	Cache Creek	Subgrade
Canfor	43-055-06	0	751	751	5/1/2018	Summer	Cache Creek	Subgrade

Road Steward	Road Name	POC[29]	POT[30]	Road Length (m)	Completion Date	Season	Operating Area	Method
Canfor	43-055-07	0	1062	1062	5/1/2018	Summer	Cache Creek	Subgrade
Canfor	43-055-08	0	798	798	5/1/2018	Summer	Cache Creek	Subgrade
Canfor	44-048-00	2001	2301	300	9/14/2018	Winter	East Farrell Creek	Subgrade
Canfor	44-048-00	2301	2667	366	9/14/2018	Winter	East Farrell Creek	Subgrade
Canfor	44-048-01	0	199	199	9/14/2018	Winter	East Farrell Creek	Subgrade
Canfor	45-043-03	0	1996	1996	9/20/2018	Summer	West Farrell Creek	Subgrade
Canfor	45-043-06	536	1098	562	9/13/2018	Summer	West Farrell Creek	Subgrade
Canfor	45-043-07	0	615	615	9/4/2018	Summer	West Farrell Creek	Subgrade
Canfor	45-043-08	0	376	376	9/4/2018	Summer	West Farrell Creek	Subgrade
Canfor	45-043-09	0	767	767	7/25/2018	Summer	West Farrell Creek	Subgrade
Canfor	45-043-10	0	378	378	7/25/2018	Summer	West Farrell Creek	Subgrade
Canfor	45-043-13	0	511	511	9/4/2018	Summer	West Farrell Creek	Subgrade
Canfor	45-043-16	0	1266	1266	9/4/2018	Summer	West Farrell Creek	Subgrade
Canfor	45-043-20	0	3634	3634	9/4/2018	Summer	West Farrell Creek	Subgrade
Canfor	45-045-01	5331	6580	1249	9/26/2018	Summer	West Farrell Creek	Surfacing
Canfor	45-045-01	6500	9949	3449	10/5/2018	Summer	West Farrell Creek	Subgrade
Canfor	45-089-00	0	1905	1905	3/15/2019	Winter	West Farrell Creek	Subgrade
Canfor	45-090-01	0	2186	2186	3/15/2019	Winter	West Farrell Creek	Subgrade
Canfor	45-090-02	0	1202	1202	3/15/2019	Winter	West Farrell Creek	Subgrade
Canfor	610-100	0	1273	1273	8/15/2018	Winter	Laprise Creek	Reactivation
Canfor	629-500	0	2149	2149	12/12/2018	Summer	Donnie Creek	Reactivation
Canfor	629-510	0	191	191	12/12/2018	Winter	Donnie Creek	Reactivation
Canfor	629-800	0	766	766	11/15/2018	Winter	Donnie Creek	Reactivation
Canfor	635-202	0	814	814	12/1/2018	Winter	Donnie Creek	Reactivation
Canfor	635-203	0	551	551	12/1/2018	Winter	Donnie Creek	Reactivation
Canfor	A76795-45008-01	0	1613	1613	3/15/2019	Winter	On block road	Subgrade
Canfor	A76795-45008-02	0	1250	1250	3/15/2019	Winter	On block road	Subgrade
Canfor	Aspect Laprise	0	2489	2489	5/1/2018	Summer	Jedney Creek	Upgrading
Canfor	HH-108-00	0	5180	5180	2/19/2019	Winter	South of FSJ TSA	Subgrade
Canfor	HH-108-01	0	416	416	2/19/2019	Winter	South of FSJ TSA	Subgrade
Canfor	HH-108-02	0	395	395	2/19/2019	Winter	South of FSJ TSA	Subgrade

Road Steward	Road Name	POC[29]	POT[30]	Road Length (m)	Completion Date	Season	Operating Area	Method
Canfor	HH-108-03	0	231	231	2/19/2019	Winter	South of FSJ TSA	Subgrade
Canfor	HH-108-04	0	41	41	3/15/2019	Winter	South of FSJ TSA	Subgrade
Canfor	HH-109-00	0	1968	1968	3/15/2019	Winter	South of FSJ TSA	Subgrade
Canfor	HH-109-01	0	95	95	3/15/2019	Winter	South of FSJ TSA	Subgrade
Canfor	HH-109-02	126	1313	1187	3/15/2019	Winter	South of FSJ TSA	Subgrade
Canfor	HH-109-03	0	2269	2269	3/15/2019	Winter	South of FSJ TSA	Subgrade
Canfor	HH-110-00	0	645	645	12/31/2018	Winter	South of FSJ TSA	Subgrade
Canfor	HH-135-00	0	2091	2091	3/15/2019	Winter	South of FSJ TSA	Subgrade
Canfor	HH-135-01	0	853	853	3/15/2019	Winter	South of FSJ TSA	Subgrade
Canfor	R-45-C	0	2000	2000	3/15/2019	Winter	off Beryl Prairie Road	Subgrade
Canfor	R14550-J	0	3813	3813	3/15/2019	Winter	South of FSJ TSA	Subgrade
Canfor/Dunne za	24-061-01	0	1168	1168	5/1/2018	Winter	Jedney Creek	Subgrade
Canfor/Dunne za	24-061-02	0	402	402	5/1/2018	Winter	Jedney Creek	Subgrade
Canfor/Dunne za	24-061-03	0	393	393	5/1/2018	Winter	Jedney Creek	Subgrade
Canfor/Dunne za	24-061-04	0	330	330	5/1/2018	Winter	Jedney Creek	Subgrade
Canfor/Dunne za	24-061-05	0	356	356	5/1/2018	Winter	Jedney Creek	Subgrade
Canfor/Dunne za	24-065-00	0	1262	1262	5/1/2018	Winter	Jedney Creek	Subgrade
Canfor/LP	208-600	0	2900	2900	10/29/2018	Winter	Kobes Creek	Reactivation
Ministry of Forest	208-300	0	401	401	10/29/2018	Winter	Kobes Creek	Reactivation
Ministry of Forest	303-400	1918	3332	1414	1/15/2019	Winter	Blue Grave Creek	Reactivation
Unknown	Iron Creek Road	16794	23338	6544	2/27/2019	Summer	Aikman Creek	Subgrade
Unknown	Paint Pot Road	0	7889	7889	2/15/2019	Summer	Aikman Creek	Subgrade
Unknown	Paint Pot Road	10765	14779	4014	2/15/2019	Summer	Aikman Creek	Subgrade

Table 40: Licensee deactivation activities for April 1, 2018-March 31, 2019

Steward Name	Road Name	Road Length (m)	Deactivation Date	Method	Operating Area	Access Type*	Deactivation Level
Canfor	01-009-01	320	4/15/2018	Cross Ditches	Inga Lake	Quad/ATV	Semi-Permanent
Canfor	01-192-00	2438	9/4/2018	Cross Ditches	Inga Lake	Quad/ATV	Semi-Permanent
Canfor	01-192-01	242	9/4/2018	Cross Ditches	Inga Lake	Quad/ATV	Semi-Permanent
Canfor	01-232-00	611	8/22/2018	Cross Ditches	Inga Lake	Quad/ATV	Semi-Permanent
Canfor	01-233-01	271	9/4/2018	Cross Ditches	Inga Lake	Quad/ATV	Semi-Permanent
Canfor	01-233-02	511	9/4/2018	Cross Ditches	Inga Lake	Quad/ATV	Semi-Permanent
Canfor	01-235-00	3048	4/10/2018	Cross Ditches	Inga Lake	Quad/ATV	Semi-Permanent
Canfor	01-235-00	220	4/10/2018	Pullback	Inga Lake	Walk/Trail	Permanent
Canfor	01-235-01	640	4/10/2018	Cross Ditches	Inga Lake	Quad/ATV	Semi-Permanent
Canfor	01-235-02	370	4/10/2018	Cross Ditches	Inga Lake	Quad/ATV	Semi-Permanent
Canfor	01-235-03	1588	4/10/2018	Cross Ditches	Inga Lake	Quad/ATV	Semi-Permanent
Canfor	01-235-04	255	4/10/2018	Cross Ditches	Inga Lake	Quad/ATV	Semi-Permanent
Canfor	01-235-05	369	4/10/2018	Cross Ditches	Inga Lake	Quad/ATV	Semi-Permanent
Canfor	01-245-02	161	8/17/2018	Cross Ditches	Inga Lake	Quad/ATV	Semi-Permanent
Canfor	01-257-01	1535	4/20/2018	Cross Ditches	Inga Lake	Quad/ATV	Semi-Permanent
Canfor	01-257-02	297	4/25/2018	Cross Ditches	Inga Lake	Quad/ATV	Semi-Permanent
Canfor	01-257-03	395	4/15/2018	Cross Ditches	Inga Lake	Quad/ATV	Semi-Permanent
Canfor	01-257-04	349	4/15/2018	Cross Ditches	Inga Lake	Quad/ATV	Semi-Permanent
Canfor	01-259-01	1442	4/15/2018	Cross Ditches	Inga Lake	Quad/ATV	Semi-Permanent
Canfor	01-259-02	339	4/15/2018	Cross Ditches	Inga Lake	Quad/ATV	Semi-Permanent
Canfor	02-020-02	530	5/15/2018	Cross Ditches	South Blueberry	Quad/ATV	Semi-Permanent
Canfor	02-020-04	843	5/15/2018	Cross Ditches	South Blueberry		Permanent
Canfor	02-022-OG RD	1315	12/3/2018	Cross Ditches	South Blueberry	Quad/ATV	
Canfor	02-041-01	1327	12/3/2018	Cross Ditches	South Blueberry	Quad/ATV	Permanent
Canfor	02-041-02	343	12/3/2018	Cross Ditches	South Blueberry	Quad/ATV	Permanent
Canfor	02-041-03	211	12/3/2018	Cross Ditches	South Blueberry	Quad/ATV	Permanent
Canfor	02-090-01	1111	12/8/2018	Cross Ditches	South Blueberry	Quad/ATV	Permanent
Canfor	02-090-02	796	12/4/2018	Cross Ditches	South Blueberry	Quad/ATV	Permanent
Canfor	02-090-03	371	12/4/2018	Cross Ditches	South Blueberry	Quad/ATV	Permanent
Canfor	02-090-04	349	12/4/2018	Cross Ditches	South Blueberry	Quad/ATV	Permanent

Steward Name	Road Name	Road Length (m)	Deactivation Date	Method	Operating Area	Access Type*	Deactivation Level
Canfor	02-163-00	3872	5/15/2018	Cross Ditches	South Blueberry	4WD	Semi-Permanent
Canfor	02-163-02	464	5/15/2018	Cross Ditches	South Blueberry	Quad/ATV	Semi-Permanent
Canfor	02-163-03	593	5/15/2018	Cross Ditches	South Blueberry	Quad/ATV	Semi-Permanent
Canfor	02-163-04	514	5/15/2018	Cross Ditches	South Blueberry	Quad/ATV	Semi-Permanent
Canfor	02-163-05	254	5/15/2018	Cross Ditches	South Blueberry	Quad/ATV	Semi-Permanent
Canfor	02-163-06	491	5/15/2018	Cross Ditches	South Blueberry	Quad/ATV	Semi-Permanent
Canfor	02-165-00	3505	5/15/2018	Cross Ditches	South Blueberry	Quad/ATV	Semi-Permanent
Canfor	02-165-01	832	5/15/2018	Cross Ditches	South Blueberry	Quad/ATV	Semi-Permanent
Canfor	02-165-02	235	5/15/2018	Cross Ditches	South Blueberry	Quad/ATV	Semi-Permanent
Canfor	02-174-00	1312	9/14/2018	Cross Ditches	South Blueberry	Quad/ATV	Permanent
Canfor	02-174-01	132	9/17/2018	Cross Ditches	South Blueberry	Quad/ATV	Permanent
Canfor	02-174-02	394	9/26/2018	Cross Ditches	South Blueberry	Quad/ATV	Permanent
Canfor	02-233-00	1883	10/5/2018	Cross Ditches	South Blueberry	Quad/ATV	Permanent
Canfor	02-241-01	463	10/5/2018	Cross Ditches	South Blueberry	Quad/ATV	Permanent
Canfor	02-241-02	391	10/15/2018	Cross Ditches	South Blueberry	Quad/ATV	Permanent
Canfor	02-242-02	603	10/18/2018	Cross Ditches	South Blueberry	Quad/ATV	Permanent
Canfor	02-242-03	168	10/19/2018	Cross Ditches	South Blueberry	Quad/ATV	Permanent
Canfor	02-243-00	2019	9/5/2018	Cross Ditches	South Blueberry	Quad/ATV	Permanent
Canfor	02-254-00	1067	11/16/2018	Cross Ditches	South Blueberry	Quad/ATV	Permanent
Canfor	02-256-00	1290	11/16/2018	Cross Ditches	South Blueberry	Quad/ATV	Permanent
Canfor	02-257-01	2154	11/16/2018	Cross Ditches	South Blueberry	Quad/ATV	Permanent
Canfor	02-257-02	365	11/16/2018	Cross Ditches	South Blueberry	Quad/ATV	Permanent
Canfor	02-257-03	240	11/16/2018	Cross Ditches	South Blueberry	Quad/ATV	Permanent
Canfor	02-257-04	87	11/16/2018	Cross Ditches	South Blueberry	Quad/ATV	Permanent
Canfor	02-258-01	1804	11/16/2018	Cross Ditches	South Blueberry	Quad/ATV	Permanent
Canfor	02-274-00	671	4/4/2018	Combination	South Blueberry	Quad/ATV	Permanent
Canfor	02-275-00	1761	9/30/2018	Cross Ditches	South Blueberry	Quad/ATV	Semi-Permanent
Canfor	02-301-01	1310	5/1/2018	Cross Ditches	South Blueberry	Quad/ATV	Semi-Permanent
Canfor	02-309-01	1108	9/5/2018	Cross Ditches	South Blueberry	Quad/ATV	Permanent
Canfor	02-309-02	968	9/5/2018	Cross Ditches	South Blueberry	Quad/ATV	Permanent
Canfor	02-309-03	88	9/5/2018	Cross Ditches	South Blueberry	Quad/ATV	Permanent

Steward Name	Road Name	Road Length (m)	Deactivation Date	Method	Operating Area	Access Type*	Deactivation Level
Canfor	02-309-04	630	9/5/2018	Cross Ditches	South Blueberry	Quad/ATV	Permanent
Canfor	03-091-01	408	5/10/2018	Cross Ditches	North Blueberry	Quad/ATV	Semi-Permanent
Canfor	03-091-02	217	5/10/2018	Cross Ditches	North Blueberry	Quad/ATV	Semi-Permanent
Canfor	03-092-01	389	5/10/2018	Cross Ditches	North Blueberry	Quad/ATV	Semi-Permanent
Canfor	03-092-02	426	4/10/2018	Cross Ditches	North Blueberry	Quad/ATV	Semi-Permanent
Canfor	03-092-03	390	5/10/2018	Cross Ditches	North Blueberry	Quad/ATV	Semi-Permanent
Canfor	03-095-00	2739	11/21/2018	Cross Ditches	North Blueberry	Quad/ATV	Permanent
Canfor	03-095-01	1181	11/21/2018	Cross Ditches	North Blueberry	Quad/ATV	
Canfor	03-095-02	1171	11/21/2018	Cross Ditches	North Blueberry	Quad/ATV	Permanent
Canfor	03-095-03	796	11/21/2018	Cross Ditches	North Blueberry	Quad/ATV	Permanent
Canfor	04-033-00	881	6/16/2018	Cross Ditches	Wonowon	Quad/ATV	Permanent
Canfor	04-033-01	187	6/16/2018	Cross Ditches	Wonowon	Quad/ATV	
Canfor	04-097-02	347	2/15/2019	Cross Ditches	Wonowon	Quad/ATV	Permanent
Canfor	04-098-01	556	6/6/2018	Cross Ditches	Wonowon	Quad/ATV	Semi-Permanent
Canfor	04-099-03	1443	5/15/2018	Cross Ditches	Wonowon	Quad/ATV	Semi-Permanent
Canfor	04-099-05	273	5/15/2018	Cross Ditches	Wonowon	Quad/ATV	Semi-Permanent
Canfor	04-100-01	3554	6/6/2018	Cross Ditches	Wonowon	Quad/ATV	Semi-Permanent
Canfor	04-177-01	543	5/25/2018	Cross Ditches	Wonowon	Quad/ATV	Semi-Permanent
Canfor	04-177-02	1109	5/25/2018	Cross Ditches	Wonowon	Quad/ATV	Semi-Permanent
Canfor	04-177-03	445	5/25/2018	Cross Ditches	Wonowon	Quad/ATV	Semi-Permanent
Canfor	04-177-04	520	5/25/2018	Combination	Wonowon	Quad/ATV	Semi-Permanent
Canfor	04-260-00	1251	8/20/2018	Cross Ditches	Wonowon	Quad/ATV	Permanent
Canfor	04-260-01	520	8/20/2018	Cross Ditches	Wonowon	Quad/ATV	Permanent
Canfor	04-260-02	539	8/20/2018	Cross Ditches	Wonowon	Quad/ATV	Permanent
Canfor	04-265-00	1024	2/15/2019	Cross Ditches	Wonowon	Quad/ATV	Permanent
Canfor	05-013-00	2216	3/27/2019	Cross Ditches	Aikman Creek	Quad/ATV	Semi-Permanent
Canfor	05-035-00	2591	3/21/2019	Prescription	Aikman Creek	No Access	Permanent
Canfor	05-035-01	807	3/21/2019	Prescription	Aikman Creek	No Access	Permanent
Canfor	05-089-00	5540	3/29/2019	Cross Ditches	Aikman Creek	Quad/ATV	Temporary
Canfor	05-089-01	2836	3/29/2019	Prescription	Aikman Creek	No Access	Permanent
Canfor	05-089-02	647	3/29/2019	Prescription	Aikman Creek	No Access	Permanent

Steward Name	Road Name	Road Length (m)	Deactivation Date	Method	Operating Area	Access Type*	Deactivation Level
Canfor	05-089-03	921	3/29/2019	Cross Ditches	Aikman Creek	Quad/ATV	Temporary
Canfor	05-089-04	289	3/29/2019	Prescription	Aikman Creek	No Access	Permanent
Canfor	05-089-05	516	3/29/2019	Cross Ditches	Aikman Creek	Quad/ATV	Temporary
Canfor	05-089-06	250	3/29/2019	Cross Ditches	Aikman Creek	Quad/ATV	Temporary
Canfor	05-090-00	4737	3/27/2019	Prescription	Aikman Creek	Quad/ATV	Temporary
Canfor	05-090-01	982	3/27/2019	Cross Ditches	Aikman Creek	Quad/ATV	Temporary
Canfor	05-134-00	596	3/27/2019	Prescription	Aikman Creek	No Access	Permanent
Canfor	05-137-00	2123	3/26/2019	Prescription	Aikman Creek	Quad/ATV	Permanent
Canfor	05-143-00	399	8/25/2018	Cross Ditches	Aikman Creek	Quad/ATV	Permanent
Canfor	05-143-01	98	8/25/2018	Cross Ditches	Aikman Creek	Quad/ATV	Permanent
Canfor	05-144-00	692	8/25/2018	Cross Ditches	Aikman Creek	Quad/ATV	Permanent
Canfor	05-144-01	231	8/25/2018	Cross Ditches	Aikman Creek	Quad/ATV	Permanent
Canfor	05-145-00	764	8/25/2018	Cross Ditches	Aikman Creek	Quad/ATV	Permanent
Canfor	05-145-01	184	8/25/2018	Cross Ditches	Aikman Creek	Quad/ATV	Permanent
Canfor	05-155-00	924	8/25/2018	Cross Ditches	Aikman Creek	Quad/ATV	Permanent
Canfor	06-008-00	8358	4/4/2018	Cross Ditches	Blair Creek	Quad/ATV	Permanent
Canfor	06-024-01	990	7/20/2018	Cross Ditches	Blair Creek	Quad/ATV	Permanent
Canfor	06-024-02	1048	7/20/2018	Cross Ditches	Blair Creek	Quad/ATV	Permanent
Canfor	06-024-03	290	7/20/2018	Cross Ditches	Blair Creek	Quad/ATV	Permanent
Canfor	06-024-04	979	7/20/2018	Cross Ditches	Blair Creek	Quad/ATV	Permanent
Canfor	06-024-05	254	7/20/2018	Cross Ditches	Blair Creek	Quad/ATV	Permanent
Canfor	06-024-06	397	7/20/2018	Cross Ditches	Blair Creek	Quad/ATV	Permanent
Canfor	06-024-07	1071	7/20/2018	Cross Ditches	Blair Creek	Quad/ATV	Permanent
Canfor	06-024-08	210	7/20/2018	Cross Ditches	Blair Creek	Quad/ATV	Permanent
Canfor	06-024-09	1147	7/20/2018	Cross Ditches	Blair Creek	Quad/ATV	Permanent
Canfor	06-037-00	1325	9/17/2018	Cross Ditches	Blair Creek	Quad/ATV	
Canfor	06-037-01	616	9/17/2018	Cross Ditches	Blair Creek	Quad/ATV	
Canfor	06-037-04	480	9/17/2018	Cross Ditches	Blair Creek	Quad/ATV	
Canfor	06-037-05	1602	9/17/2018	Cross Ditches	Blair Creek	Quad/ATV	
Canfor	06-037-06	597	9/17/2018	Cross Ditches	Blair Creek	Quad/ATV	
Canfor	06-037-07	353	9/17/2018	Cross Ditches	Blair Creek	Quad/ATV	

Steward Name	Road Name	Road Length (m)	Deactivation Date	Method	Operating Area	Access Type*	Deactivation Level
Canfor	06-045-00	5858	4/25/2018	Cross Ditches	Blair Creek	Quad/ATV	Permanent
Canfor	06-045-01	213	4/25/2018	Cross Ditches	Blair Creek	Quad/ATV	Permanent
Canfor	06-062-00	2291	4/23/2018	Cross Ditches	Blair Creek	Quad/ATV	Permanent
Canfor	06-062-01	1576	4/23/2018	Cross Ditches	Blair Creek	Quad/ATV	Permanent
Canfor	06-062-02	1070	4/23/2018	Cross Ditches	Blair Creek	Quad/ATV	Permanent
Canfor	06-062-03	953	4/23/2018	Cross Ditches	Blair Creek	Quad/ATV	Permanent
Canfor	06-062-04	633	4/23/2018	Cross Ditches	Blair Creek	Quad/ATV	Permanent
Canfor	06-062-05	331	4/23/2018	Cross Ditches	Blair Creek	Quad/ATV	Permanent
Canfor	06-073-00	134	7/13/2018	Cross Ditches	Blair Creek	Quad/ATV	Permanent
Canfor	06-073-00	2151	4/20/2018	Cross Ditches	Blair Creek	Quad/ATV	Permanent
Canfor	06-073-01	1140	7/13/2018	Cross Ditches	Blair Creek	Quad/ATV	Permanent
Canfor	06-073-01	1133	4/20/2018	Cross Ditches	Blair Creek	Quad/ATV	Permanent
Canfor	06-073-02	498	4/20/2018	Cross Ditches	Blair Creek	Quad/ATV	Permanent
Canfor	06-077-00	692	4/4/2018	Cross Ditches	Blair Creek	Quad/ATV	Permanent
Canfor	06-085-00	3945	4/17/2018	Cross Ditches	Blair Creek	Quad/ATV	Permanent
Canfor	06-085-01	391	4/17/2018	Cross Ditches	Blair Creek	Quad/ATV	Permanent
Canfor	06-085-02	1013	4/17/2018	Cross Ditches	Blair Creek	Quad/ATV	Permanent
Canfor	06-117-00	2133	11/1/2018	Rehabilitation	Blair Creek	No Access	Permanent
Canfor	06-117-01	482	11/1/2018	Rehabilitation	Blair Creek	No Access	Permanent
Canfor	06-117-02	466	11/1/2018	Rehabilitation	Blair Creek	No Access	Permanent
Canfor	06-127-00	1495	10/26/2018	Rehabilitation	Blair Creek	No Access	Permanent
Canfor	06-127-01	202	10/26/2018	Rehabilitation	Blair Creek	Quad/ATV	Permanent
Canfor	06-127-02	565	10/26/2018	Rehabilitation	Blair Creek	No Access	Permanent
Canfor	06-127-03	261	10/26/2018	Rehabilitation	Blair Creek	Quad/ATV	Permanent
Canfor	06-128-00	1012	9/25/2018	Rehabilitation	Blair Creek	No Access	Permanent
Canfor	06-128-01	348	9/25/2018	Rehabilitation	Blair Creek	No Access	Permanent
Canfor	07-047-00	1742	3/27/2019	Combination	Donnie Creek	Quad/ATV	Permanent
Canfor	07-047-01	480	3/27/2019	Combination	Donnie Creek	Quad/ATV	Permanent
Canfor	07-047-02	121	3/27/2019	Combination	Donnie Creek	Quad/ATV	Permanent
Canfor	07-047-03	342	3/27/2019	Combination	Donnie Creek	Quad/ATV	Permanent
Canfor	07-086-00	984	2/5/2019	Combination	Donnie Creek	Walk/Trail	Permanent

Steward Name	Road Name	Road Length (m)	Deactivation Date	Method	Operating Area	Access Type*	Deactivation Level
Canfor	07-086-01	118	2/5/2019	Combination	Donnie Creek	Walk/Trail	Permanent
Canfor	07-138-00	193	12/3/2018	Combination	Donnie Creek	Walk/Trail	Permanent
Canfor	10-025-00	2114	4/7/2018	Cross Ditches	Blue Grave Creek	Helicopter	Permanent
Canfor	10-025-01	597	4/5/2018	Cross Ditches	Blue Grave Creek	Helicopter	Permanent
Canfor	10-025-02	779	4/5/2018	Cross Ditches	Blue Grave Creek	Helicopter	Permanent
Canfor	10-028-00	1032	3/30/2019	Cross Ditches	Blue Grave Creek	Quad/ATV	Permanent
Canfor	10-028-01	419	3/30/2019	Cross Ditches	Blue Grave Creek	Quad/ATV	Permanent
Canfor	10-028-02	224	3/30/2019	Cross Ditches	Blue Grave Creek	Quad/ATV	Permanent
Canfor	10-029-00	1143	3/28/2019	Cross Ditches	Blue Grave Creek	Quad/ATV	Temporary
Canfor	10-029-01	198	3/28/2019	Cross Ditches	Blue Grave Creek	Quad/ATV	Temporary
Canfor	10-029-02	210	3/28/2019	Cross Ditches	Blue Grave Creek	Quad/ATV	Temporary
Canfor	10-038-00	263	3/24/2019	Prescription	Blue Grave Creek	No Access	Permanent
Canfor	10-038-01	1711	3/27/2019	Prescription	Blue Grave Creek	Quad/ATV	Permanent
Canfor	10-038-02	268	3/27/2019	Prescription	Blue Grave Creek	No Access	Permanent
Canfor	10-038-03	202	3/24/2019	Prescription	Blue Grave Creek	No Access	Permanent
Canfor	141 Road	1948	4/5/2018	Cross Ditches	Cameron River	Quad/ATV	Permanent
Canfor	141-700	255	4/5/2018	Cross Ditches	Cameron River	Quad/ATV	Permanent
Canfor	18-054-00	1191	9/10/2018	Cross Ditches	Nig Creek	Quad/ATV	Permanent
Canfor	18-054-01	346	9/10/2018	Cross Ditches	Nig Creek	Quad/ATV	Permanent
Canfor	18-054-02	323	9/10/2018	Cross Ditches	Nig Creek	Quad/ATV	Permanent
Canfor	18-054-03	723	9/10/2018	Cross Ditches	Nig Creek	Quad/ATV	Permanent

Steward Name	Road Name	Road Length (m)	Deactivation Date	Method	Operating Area	Access Type*	Deactivation Level
Canfor	18-055-00	3490	9/1/2018	Cross Ditches	Nig Creek	Quad/ATV	Permanent
Canfor	18-055-01	2254	9/1/2018	Cross Ditches	Nig Creek	Quad/ATV	Permanent
Canfor	18-055-02	450	9/1/2018	Cross Ditches	Nig Creek	Quad/ATV	Permanent
Canfor	18-055-03	251	9/1/2018	Cross Ditches	Nig Creek	Quad/ATV	Permanent
Canfor	18-055-06	1553	9/1/2018	Cross Ditches	Nig Creek	Quad/ATV	Permanent
Canfor	19-024-01	261	4/10/2018	Cross Ditches	Laprise Creek	Quad/ATV	Permanent
Canfor	23-010-00	124	4/13/2018	Cross Ditches	Cameron River	Quad/ATV	Permanent
Canfor	23-034-00	354	4/12/2018	Cross Ditches	Cameron River	Quad/ATV	Permanent
Canfor	23-091-00	438	4/13/2018	Cross Ditches	Cameron River	Quad/ATV	Permanent
Canfor	23-094-00	1643	4/13/2018	Cross Ditches	Cameron River	Quad/ATV	Permanent
Canfor	23-098-00	1974	4/13/2018	Cross Ditches	Cameron River	Quad/ATV	Permanent
Canfor	23-108-00	2279	9/19/2018	Cross Ditches	Cameron River	Quad/ATV	Permanent
Canfor	23-108-01	628	4/12/2018	Cross Ditches	Cameron River	Quad/ATV	Permanent
Canfor	23-108-02	324	4/12/2018	Cross Ditches	Cameron River	Quad/ATV	Permanent
Canfor	23-108-03	521	4/12/2018	Cross Ditches	Cameron River	Quad/ATV	Permanent
Canfor	23-108-05	273	9/19/2018	Cross Ditches	Cameron River	Quad/ATV	Permanent
Canfor	23-108-06	1203	9/19/2018	Cross Ditches	Cameron River	Quad/ATV	Permanent
Canfor	23-108-07	612	9/19/2018	Cross Ditches	Cameron River	Quad/ATV	Permanent
Canfor	23-108-08	635	9/20/2018	Cross Ditches	Cameron River	Quad/ATV	Permanent
Canfor	23-108-10	733	9/19/2018	Cross Ditches	Cameron River	Quad/ATV	Permanent
Canfor	23-115-00	378	4/5/2018	Cross Ditches	Cameron River	Quad/ATV	Permanent
Canfor	23-115-01	968	4/5/2018	Cross Ditches	Cameron River	Quad/ATV	Permanent
Canfor	24-037-00	2458	6/23/2018	Pullback	Jedney Creek	Walk/Trail	Permanent
Canfor	24-037-01	303	6/23/2018	Pullback	Jedney Creek	Walk/Trail	Permanent
Canfor	24-037-02	197	6/23/2018	Pullback	Jedney Creek	Walk/Trail	Permanent
Canfor	24-037-03	311	6/23/2018	Pullback	Jedney Creek	Walk/Trail	Permanent
Canfor	24-037-04	148	6/23/2018	Pullback	Jedney Creek	Walk/Trail	Permanent
Canfor	24-037-05	356	6/23/2018	Pullback	Jedney Creek	Walk/Trail	Permanent
Canfor	24-037-06	428	6/23/2018	Pullback	Jedney Creek	Walk/Trail	Permanent
Canfor	24-037-07	469	6/23/2018	Pullback	Jedney Creek	Walk/Trail	Permanent
Canfor	24-037-08	411	6/23/2018	Pullback	Jedney Creek	Walk/Trail	Permanent

Steward Name	Road Name	Road Length (m)	Deactivation Date	Method	Operating Area	Access Type*	Deactivation Level
Canfor	24-310-00	2287	6/30/2018	Cross Ditches	Jedney Creek	Quad/ATV	Semi-Permanent
Canfor	24-310-00	1279	6/30/2018	Pullback	Jedney Creek	Walk/Trail	Permanent
Canfor	24-325-00	2887	7/3/2018	Cross Ditches	Jedney Creek	Quad/ATV	Semi-Permanent
Canfor	24-325-05	445	7/9/2018	Cross Ditches	Jedney Creek	Quad/ATV	Permanent
Canfor	24-325-06	380	7/9/2018	Cross Ditches	Jedney Creek	Quad/ATV	Permanent
Canfor	29-109-00	1530	4/15/2018	Prescription	Prespatou Creek	No Access	Permanent
Canfor	29-109-02	851	4/15/2018	Prescription	Prespatou Creek	No Access	Permanent
Canfor	29-109-03	379	4/15/2018	Prescription	Prespatou Creek	No Access	Permanent
Canfor	43-067-01	558	9/1/2018	Cross Ditches	Cache Creek	Quad/ATV	Permanent
Canfor	43-068-01	758	9/1/2018	Cross Ditches	Cache Creek	Quad/ATV	Permanent
Canfor	43-070-01	2320	9/1/2018	Cross Ditches	Cache Creek	Quad/ATV	Permanent
Canfor	43-070-02	1203	9/1/2018	Cross Ditches	Cache Creek	Quad/ATV	Permanent
Canfor	44-050-02	306	1/29/2019	Cross Ditches	East Farrell Creek	Quad/ATV	Permanent
Canfor	45-037-00	233	10/4/2018	Cross Ditches	West Farrell Creek	Quad/ATV	Permanent
Canfor	45-037-01	234	10/4/2018	Cross Ditches	West Farrell Creek	Quad/ATV	Permanent
Canfor	45-037-03	288	10/4/2018	Cross Ditches	West Farrell Creek	Quad/ATV	Permanent
Canfor	45-044-01	2718	4/20/2018	Cross Ditches	West Farrell Creek	Quad/ATV	Permanent
Canfor	45-044-02	542	4/13/2018	Cross Ditches	West Farrell Creek	Quad/ATV	Permanent
Canfor	45-044-03	276	4/13/2018	Cross Ditches	West Farrell Creek	Quad/ATV	Permanent
Canfor	45-044-04	386	4/13/2018	Cross Ditches	West Farrell Creek	Quad/ATV	Permanent
Canfor	45-044-05	433	4/13/2018	Cross Ditches	West Farrell Creek	Quad/ATV	Permanent
Canfor	45-065-00	274	10/4/2018	Cross Ditches	West Farrell Creek	Quad/ATV	Permanent
Canfor	45-065-01	816	10/4/2018	Cross Ditches	West Farrell Creek	Quad/ATV	Permanent

Steward Name	Road Name	Road Length (m)	Deactivation Date	Method	Operating Area	Access Type*	Deactivation Level
Canfor	614-600A	3121	4/10/2018	Cross Ditches	Laprise Creek	Quad/ATV	Permanent
Canfor	BCTS Built Road	242	5/15/2018	Cross Ditches	North Blueberry	Quad/ATV	Semi-Permanent
Canfor	HH-110-00	645	2/28/2019	Prescription	South of FSJ TSA	Quad/ATV	Temporary
Canfor/Cameron River	02-022-01	640	12/6/2018	Cross Ditches	South Blueberry	Quad/ATV	Permanent
Canfor/Cameron River	02-022-02	730	12/3/2018	Cross Ditches	South Blueberry	Quad/ATV	
Canfor/Cameron River	02-022-02	333	6/15/2018	Unknown	South Blueberry		Maintained-Inactive
Canfor/Cameron River	02-022-06	347	12/5/2018	Cross Ditches	South Blueberry	Quad/ATV	Permanent
Ministry of Forest	137-400	3118	7/20/2018	Cross Ditches	Blair Creek	Quad/ATV	Permanent
Ministry of Forest	303-400	1414	3/27/2019	Cross Ditches	Blue Grave Creek	Quad/ATV	Temporary
Progress Energy	06-008-00	725	4/4/2018	Cross Ditches	Blair Creek	Quad/ATV	Permanent
Progress Energy	Progress Access Road 1	1076	4/4/2018	Cross Ditches	Blair Creek	Quad/ATV	Permanent
Progress Energy	Progress Access Road 2	225	4/4/2018	Cross Ditches	Blair Creek	Quad/ATV	Permanent
Talisman Energy	141 Road	3157	4/5/2018	Cross Ditches	Cameron River	Quad/ATV	Permanent

* ATV – All-terrain vehicle

Table 41: Licensee access structure activities for April 1, 2018-March 31, 2019

Road Name	Structure Location (m)	Installation Date	Structure Type
10-038-00	5	11/30/2018	Pipeline Xing - Single
02-177-00	1,322	7/5/2018	Pipeline Xing - Single
02-177-00	414	7/5/2018	Pipeline Xing - Single
02-177-02	214	4/15/2018	Pipeline Xing - Multiple
R-45-C	1,822	1/25/2019	Bridge
Iron Creek Road	2,957	10/31/2018	Common Junction
Alaska Highway	84,069	1/9/2019	Common Junction
272 Road	2,532	2/6/2019	Bridge

Table 42: Annual Report On Roads Constructed in the Fort St. John BCTS field office area for April 1, 2018 to March 31, 2019

Steward Name	Road Name	Start (m)	End (m)	Length (m)	Completion Date	Season	Operating Area	Method
BCTS	A80057-20065-01	0	2946	2946	2018-02-01	Winter	Cypress Creek	New Road
BCTS	A80057-20065-02	0	388	388	2018-02-01	Winter	Cypress Creek	New Road
BCTS	A80057-20065-A	0	2936	2936	2018-02-01	Winter	Cypress Creek	New Road
BCTS	A80058-20067-08	0	2511	2511	2018-02-27	Winter	Cypress Creek	Re-Activated
BCTS	A80058-20068-06	0	1293	1293	2018-02-27	Winter	Cypress Creek	Re-Activated
BCTS	A94063-05054-A	0	1393	1393	2018-12-08	Winter	Aikman Creek	New Road
BCTS	A94063-05087-01	0	525	525	2018-12-10	Winter	Aikman Creek	New Road
BCTS	A94063-05087-02	0	255	255	2018-12-10	Winter	Aikman Creek	New Road
BCTS	A94063-05087-03	0	336	336	2018-12-10	Winter	Aikman Creek	New Road
BCTS	A94063-05087-04	0	220	220	2018-12-10	Winter	Aikman Creek	New Road
BCTS	A94065-24253-01	0	580	580	2019-01-28	Winter	Aikman Creek	New Road
BCTS	A94065-24253-02	0	435	435	2019-01-28	Winter	Aikman Creek	New Road
BCTS	A94065-24253-03	0	374	374	2019-01-28	Winter	Aikman Creek	New Road
BCTS	A94065-24253-A	0	1427	1427	2019-01-28	Winter	Aikman Creek	New Road
BCTS	A94070-02260-A	0	190	190	2018-04-10	Winter	South Blueberry	New Road
BCTS	A94070-02277-A	0	1138	1138	2018-04-10	Winter	South Blueberry	New Road
BCTS	A94080-24058-01	0	664	664	2018-10-14	Winter	Jedney Creek	New Road
BCTS	A94080-24234-A	0	814	814	2018-11-10	Winter	Jedney Creek	New Road
BCTS	A94080-24234-B	0	491	491	2018-11-10	Winter	Jedney Creek	New Road
BCTS	A94080-24271-A	0	569	569	2018-11-10	Winter	Jedney Creek	New Road
BCTS	A94166-24246-01	0	143	143	2018-10-09	Winter	Jedney Creek	New Road
BCTS	A94166-24246-A	0	2248	2248	2018-10-09	Winter	Jedney Creek	Re-Activated
BCTS	A95218-09141-03	0	388	388	2018-11-06	Winter	Kobes Creek	New Road
BCTS	A95218-09141-04	0	462	462	2018-11-06	Winter	Kobes Creek	New Road
BCTS	A95218-09141-A	0	1394	1394	2018-11-06	Winter	Kobes Creek	New Road
BCTS	A95218-09141-B	0	330	330	2018-11-06	Winter	Kobes Creek	Re-Activated
BCTS	A95218-09141-C	0	718	718	2018-11-06	Winter	Kobes Creek	Re-Activated
BCTS	A95218-09141-D	0	728	728	2018-11-06	Winter	Kobes Creek	Re-Activated
BCTS	A95218-09141-E	0	642	642	2018-11-06	Winter	Kobes Creek	New Road
BCTS	A92236-45064-A	0	2719	2719	2019-02-13	Winter	Farrell Creek	New Road
BCTS	A76796-45001-01	0	90	90	2019-02-05	Winter	Farrell Creek	New Road
BCTS	A76796-45001-02	0	2524	2524	2019-02-05	Winter	Farrell Creek	New Road
BCTS	A76796-45001-03	0	405	450	2019-02-05	Winter	Farrell Creek	New Road
BCTS	A76796-45001-A	0	1510	1510	2019-02-05	Winter	Farrell Creek	New Road

Steward Name	Road Name	Start (m)	End (m)	Length (m)	Completion Date	Season	Operating Area	Method
BCTS	A76796-45001-B	0	283	283	2019-02-05	Winter	Farrell Creek	New Road
BCTS	A76796-45001-C	0	421	421	2019-02-05	Winter	Farrell Creek	New Road
BCTS	A76796-45001-D	0	116	116	2019-02-05	Winter	Farrell Creek	New Road
BCTS	A76796-45001-E	0	136	136	2019-02-05	Winter	Farrell Creek	New Road
BCTS	A76796-45001-F	0	322	322	2019-02-05	Winter	Farrell Creek	New Road
BCTS	A76796-45001-G	0	67	67	2019-02-05	Winter	Farrell Creek	New Road
BCTS	A76796-45001-H	0	717	717	2019-02-05	Winter	Farrell Creek	New Road
BCTS	A95526-10052-01	0	451	451	2019-03-11	Winter	Bluegrave Creek	New Road
BCTS	A95526-10052-02	0	240	240	2019-03-11	Winter	Bluegrave Creek	New Road
BCTS	A95526-10052-A	0	3042	3042	2019-03-11	Winter	Bluegrave Creek	New Road
BCTS	A94166-24260-01	0	146	146	2018-10-09	Winter	Jedney Creek	New Road
BCTS	A94166-24260-02	0	528	528	2018-10-09	Winter	Jedney Creek	New Road
BCTS	A94166-24246-01	0	143	143	2018-10-09	Winter	Jedney Creek	New Road
BCTS	A94166-24246-A	0	2248	2248	2018-10-09	Winter	Jedney Creek	New Road
BCTS	A94166-24260-A	0	381	381	2018-10-09	Winter	Jedney Creek	New Road
BCTS	A94166-24262-01	0	776	776	2018-09-30	Winter	Jedney Creek	New Road
BCTS	A94166-24262-02	0	133	133	2018-09-30	Winter	Jedney Creek	New Road
BCTS	A94166-24262-03	0	235	235	2018-09-30	Winter	Jedney Creek	New Road
BCTS	A94166-24262-04	0	322	322	2018-09-30	Winter	Jedney Creek	New Road
BCTS	A95043-24064-A	0	1844	1844	2018-10-10	Winter	Jedney Creek	New Road
BCTS	A95043-24067-01	0	1115	1115	2018-10-16	Winter	Jedney Creek	New Road
BCTS	A95043-24067-02	0	325	325	2018-10-16	Winter	Jedney Creek	New Road
BCTS	A95043-24067-A	0	3486	3486	2018-10-16	Winter	Jedney Creek	New Road
BCTS	A95043-24362-01	0	90	90	2018-11-04	Winter	Jedney Creek	New Road
BCTS	A95044-19021-A	0	489	489	2018-12-14	Winter	Laprise Creek	New Road
BCTS	A95044-19022-02	0	526	526	2018-12-14	Winter	Laprise Creek	New Road
BCTS	A95044-19022-A	0	1020	1020	2018-12-14	Winter	Laprise Creek	New Road
BCTS	A95046-24193-01	0	172	172	2018-12-01	Winter	Laprise Creek	New Road
BCTS	A95046-24193-02	0	223	223	2018-12-01	Winter	Jedney Creek	New Road
BCTS	A95046-24193-A	0	1202	1202	2018-12-01	Winter	Jedney Creek	New Road
BCTS	A95642-24063-01	0	385	385	2018-12-01	Winter	Jedney Creek	New Road
BCTS	A95642-24063-A	0	1921	1921	2018-12-01	Winter	Jedney Creek	New Road
BCTS	A95642-24287-01	0	251	251	2018-11-26	Winter	Jedney Creek	New Road
BCTS	A95642-24287-A	0	836	836	2018-11-26	Winter	Jedney Creek	New Road
BCTS	A95965-24207-01	0	777	777	2018-11-13	Winter	Jedney Creek	New Road
BCTS	A95965-24207-02	0	1020	1020	2018-11-13	Winter	Jedney Creek	New Road

Steward Name	Road Name	Start (m)	End (m)	Length (m)	Completion Date	Season	Operating Area	Method
BCTS	A95965-24207-03	0	586	586	2018-11-13	Winter	Jedney Creek	New Road
BCTS	A95965-24207-04	0	565	565	2018-11-13	Winter	Jedney Creek	New Road
BCTS	A95966-24238-01	0	329	329	2018-12-18	Winter	Jedney Creek	New Road
BCTS	A95966-24238-02	0	289	289	2018-12-18	Winter	Jedney Creek	New Road
BCTS	A95966-24238-A	0	837	837	2018-12-18	Winter	Jedney Creek	New Road
BCTS	A95966-24239-A	0	550	550	2018-12-26	Winter	Jedney Creek	New Road
BCTS	A95966-24245-01	0	535	535	2019-01-10	Winter	Jedney Creek	New Road
BCTS	A95966-24245-02	0	761	761	2019-01-10	Winter	Jedney Creek	New Road
BCTS	A95966-24245-A	0	629	629	2019-01-10	Winter	Jedney Creek	New Road
BCTS	A95966-24273-A	0	697	697	2019-01-16	Winter	Jedney Creek	New Road
BCTS	A95966-24273-B	0	1162	1162	2019-01-16	Winter	Jedney Creek	New Road
BCTS	A95967-24059-A	0	761	761	2018-09-09	Winter	Jedney Creek	New Road
BCTS	A95967-24272-01	0	224	224	2018-10-14	Winter	Jedney Creek	New Road
BCTS	A95967-24272-A	0	1309	1309	2018-10-14	Winter	Jedney Creek	New Road
BCTS	A95967-24272-B	0	239	239	2018-10-14	Winter	Jedney Creek	New Road
BCTS	A95967-24297-A	0	510	510	2018-09-15	Winter	Jedney Creek	New Road
BCTS	TA0442-20113-05	0	1196	1196	2019-02-13	Winter	Cypress Creek	Re-Activated
BCTS	TA0442-20113-07	0	1087	1087	2019-02-13	Winter	Cypress Creek	New Road
BCTS	TA0442-20113-09	0	1469	1469	2019-02-13	Winter	Cypress Creek	New Road

Table 43: Annual report on roads deactivated in the Fort St John BCTS field office area for April 1, 2018 to March 31, 2019

Steward	Road Name	Start Chainage (m)	End Chainage (m)	Length (m)	Deactivation Date	Method	Operating Area	Access Type*	Level
BCTS	A76781-37018-01	1092	2276	1184	2018-04-12	Cross Ditches	Lily Lake	Quad/ATV	Permanent
BCTS	A76781-37018-02	0	885	885	2018-04-12	Cross Ditches	Lily Lake	Quad/ATV	Permanent
BCTS	A76781-37018-02	885	1994	1109	2018-04-12	Cross Ditches	Lily Lake	Quad/ATV	Permanent
BCTS	A76781-37018-03	0	28	28	2018-04-12	Cross Ditches	Lily Lake	Quad/ATV	Permanent
BCTS	A76781-37018-03	28	168	140	2018-04-12	Cross Ditches	Lily Lake	Quad/ATV	Permanent
BCTS	A93438-37043-A	1290	2736	1446	2018-06-05	Cross Ditches	Lily Lake	Quad/ATV	Permanent
BCTS	A93438-37043-B	0	766	766	2018-06-05	Cross Ditches	Lily Lake	Quad/ATV	Permanent
BCTS	A80057-20065-01	0	2946	2946	2019-03-17	Cross Ditches	Cypress Creek	Quad/ATV	Temporary
BCTS	A80057-20065-02	0	388	388	2019-03-17	Cross Ditches	Cypress Creek	Quad/ATV	Temporary
BCTS	A80057-20065-A	0	2936	2936	2019-03-17	Cross Ditches	Cypress Creek	Quad/ATV	Temporary
BCTS	A80058-20067-08	0	2511	2511	2019-03-17	Cross Ditches	Cypress Creek	Quad/ATV	Temporary
BCTS	A80058-20068-06	0	1293	1293	2019-03-17	Cross Ditches	Cypress Creek	Quad/ATV	Temporary
BCTS	A94063-05054-A	0	1393	1393	2019-02-21	Cross Ditches	Aikman Creek	Quad/ATV	Permanent
BCTS	A94063-05087-01	0	525	525	2019-02-12	Cross Ditches	Aikman Creek	Quad/ATV	Permanent
BCTS	A94063-05087-02	0	255	255	2019-02-12	Cross Ditches	Aikman Creek	Quad/ATV	Permanent
BCTS	A94063-05087-03	0	336	336	2019-02-12	Cross Ditches	Aikman Creek	Quad/ATV	Permanent
BCTS	A94063-05087-04	0	220	220	2019-02-12	Cross Ditches	Aikman Creek	Quad/ATV	Permanent
BCTS	A94065-24253-01	0	580	580	2019-03-10	Cross Ditches	Aikman Creek	Quad/ATV	Permanent
BCTS	A94065-24253-02	0	435	435	2019-03-10	Cross Ditches	Aikman Creek	Quad/ATV	Permanent
BCTS	A94065-24253-03	0	374	374	2019-03-10	Cross Ditches	Aikman Creek	Quad/ATV	Permanent
BCTS	A94065-24253-A	0	1427	1427	2019-03-10	Cross Ditches	Aikman Creek	Quad/ATV	Permanent
BCTS	A94070-02260-A	0	190	190	2019-03-10	Cross Ditches	South Blueberry	Quad/ATV	Permanent
BCTS	A94070-02277-A	0	1138	1138	2019-03-10	Cross Ditches	South Blueberry	Quad/ATV	Permanent
BCTS	A94080-24058-01	0	664	664	2018-11-15	Cross Ditches	Jedney Creek	Quad/ATV	Permanent
BCTS	A94080-24234-A	0	814	814	2018-11-15	Cross Ditches	Jedney Creek	Quad/ATV	Permanent
BCTS	A94080-24234-B	0	491	491	2018-11-15	Cross Ditches	Jedney Creek	Quad/ATV	Permanent
BCTS	A94080-24271-A	0	569	569	2018-11-15	Cross Ditches	Jedney Creek	Quad/ATV	Permanent
BCTS	A94166-24246-01	0	143	143	2018-10-31	Cross Ditches	Jedney Creek	Quad/ATV	Permanent
BCTS	A94166-24246-A	0	2248	2248	2018-10-31	Cross Ditches	Jedney Creek	Quad/ATV	Permanent
BCTS	A95218-09141-03	0	388	388	2019-01-24	Cross Ditches	Kobes Creek	Quad/ATV	Permanent
BCTS	A95218-09141-04	0	462	462	2019-01-24	Cross Ditches	Kobes Creek	Quad/ATV	Permanent
BCTS	A95218-09141-A	0	1394	1394	2019-01-24	Cross Ditches	Kobes Creek	Quad/ATV	Permanent
BCTS	A95218-09141-B	0	330	330	2019-01-24	Cross Ditches	Kobes Creek	Quad/ATV	Permanent

Steward	Road Name	Start Chainage (m)	End Chainage (m)	Length (m)	Deactivation Date	Method	Operating Area	Access Type*	Level
BCTS	A95218-09141-C	0	718	718	2019-01-24	Cross Ditches	Kobes Creek	Quad/ATV	Permanent
BCTS	A95218-09141-D	0	728	728	2019-01-24	Cross Ditches	Kobes Creek	Quad/ATV	Permanent
BCTS	A95218-09141-E	0	642	642	2019-01-24	Cross Ditches	Kobes Creek	Quad/ATV	Permanent
BCTS	A92236-45064-A	0	2719	2719	2019-03-20	Cross Ditches	Farrell Creek	Quad/ATV	Permanent
BCTS	A76796-45001-01	0	90	90	2019-03-30	Cross Ditches	Farrell Creek	Quad/ATV	Temporary
BCTS	A76796-45001-02	0	2524	2524	2019-03-30	Cross Ditches	Farrell Creek	Quad/ATV	Temporary
BCTS	A76796-45001-03	0	405	450	2019-03-30	Cross Ditches	Farrell Creek	Quad/ATV	Temporary
BCTS	A76796-45001-A	0	1510	1510	2019-03-30	Cross Ditches	Farrell Creek	Quad/ATV	Temporary
BCTS	A76796-45001-B	0	283	283	2019-03-30	Cross Ditches	Farrell Creek	Quad/ATV	Temporary
BCTS	A76796-45001-C	0	421	421	2019-03-30	Cross Ditches	Farrell Creek	Quad/ATV	Temporary
BCTS	A76796-45001-D	0	116	116	2019-03-30	Cross Ditches	Farrell Creek	Quad/ATV	Temporary
BCTS	A76796-45001-E	0	136	136	2019-03-30	Cross Ditches	Farrell Creek	Quad/ATV	Temporary
BCTS	A76796-45001-F	0	322	322	2019-03-30	Cross Ditches	Farrell Creek	Quad/ATV	Temporary
BCTS	A76796-45001-G	0	67	67	2019-03-30	Cross Ditches	Farrell Creek	Quad/ATV	Temporary
BCTS	A76796-45001-H	0	717	717	2019-03-30	Cross Ditches	Farrell Creek	Quad/ATV	Temporary
BCTS	A95526-10052-01	0	451	451	2019-03-24	Cross Ditches	Bluegrave Creek	Quad/ATV	Temporary
BCTS	A95526-10052-02	0	240	240	2019-03-24	Cross Ditches	Bluegrave Creek	Quad/ATV	Temporary
BCTS	A95526-10052-A	0	3042	3042	2019-03-24	Cross Ditches	Bluegrave Creek	Quad/ATV	Temporary
BCTS	A94166-24260-01	0	146	146	2018-10-31	Cross Ditches	Jedney Creek	Quad/ATV	Permanent
BCTS	A94166-24260-02	0	528	528	2018-10-31	Cross Ditches	Jedney Creek	Quad/ATV	Permanent
BCTS	A94166-24260-A	0	381	381	2018-10-31	Cross Ditches	Jedney Creek	Quad/ATV	Permanent
BCTS	A94166-24262-01	0	776	776	2018-10-31	Cross Ditches	Jedney Creek	Quad/ATV	Permanent
BCTS	A94166-24262-02	0	133	133	2018-10-31	Cross Ditches	Jedney Creek	Quad/ATV	Permanent
BCTS	A94166-24262-03	0	235	235	2018-10-31	Cross Ditches	Jedney Creek	Quad/ATV	Permanent
BCTS	A94166-24262-04	0	322	322	2018-10-31	Cross Ditches	Jedney Creek	Quad/ATV	Permanent
BCTS	A95043-24064-A	0	1844	1844	2018-11-25	Cross Ditches	Jedney Creek	Quad/ATV	Permanent
BCTS	A95043-24067-01	0	1115	1115	2018-11-25	Cross Ditches	Jedney Creek	Quad/ATV	Permanent
BCTS	A95043-24067-02	0	325	325	2018-11-25	Cross Ditches	Jedney Creek	Quad/ATV	Permanent
BCTS	A95043-24067-A	0	3486	3486	2018-11-25	Cross Ditches	Jedney Creek	Quad/ATV	Permanent
BCTS	A95043-24362-01	0	90	90	2018-11-25	Cross Ditches	Jedney Creek	Quad/ATV	Permanent
BCTS	A95044-19021-A	0	489	489	2019-02-20	Cross Ditches	Laprise Creek	Quad/ATV	Permanent
BCTS	A95044-19022-02	0	526	526	2019-02-20	Cross Ditches	Laprise Creek	Quad/ATV	Permanent
BCTS	A95044-19022-A	0	1020	1020	2019-02-20	Cross Ditches	Laprise Creek	Quad/ATV	Permanent
BCTS	A95046-24193-01	0	172	172	2018-12-13	Cross Ditches	Jedney Creek	Quad/ATV	Permanent

Steward	Road Name	Start Chainage (m)	End Chainage (m)	Length (m)	Deactivation Date	Method	Operating Area	Access Type*	Level
BCTS	A95046-24193-02	0	223	223	2018-12-13	Cross Ditches	Jedney Creek	Quad/ATV	Permanent
BCTS	A95046-24193-A	0	1202	1202	2018-12-13	Cross Ditches	Jedney Creek	Quad/ATV	Permanent
BCTS	A95642-24063-01	0	385	385	2018-12-15	Cross Ditches	Jedney Creek	Quad/ATV	Permanent
BCTS	A95642-24063-A	0	1921	1921	2018-12-15	Cross Ditches	Jedney Creek	Quad/ATV	Permanent
BCTS	A95642-24287-01	0	251	251	2018-12-15	Cross Ditches	Jedney Creek	Quad/ATV	Permanent
BCTS	A95642-24287-A	0	836	836	2018-12-15	Cross Ditches	Jedney Creek	Quad/ATV	Permanent
BCTS	A95965-24207-01	0	777	777	2019-01-10	Cross Ditches	Jedney Creek	Quad/ATV	Permanent
BCTS	A95965-24207-02	0	1020	1020	2019-01-10	Cross Ditches	Jedney Creek	Quad/ATV	Permanent
BCTS	A95965-24207-03	0	586	586	2019-01-10	Cross Ditches	Jedney Creek	Quad/ATV	Permanent
BCTS	A95965-24207-04	0	565	565	2019-01-10	Cross Ditches	Jedney Creek	Quad/ATV	Permanent
BCTS	A95966-24238-01	0	329	329	2019-01-10	Cross Ditches	Jedney Creek	Quad/ATV	Permanent
BCTS	A95966-24238-02	0	289	289	2019-01-10	Cross Ditches	Jedney Creek	Quad/ATV	Permanent
BCTS	A95966-24238-A	0	837	837	2019-01-10	Cross Ditches	Jedney Creek	Quad/ATV	Permanent
BCTS	A95966-24239-A	0	338	338	2019-01-10	Cross Ditches	Jedney Creek	Quad/ATV	Permanent
BCTS	A95966-24245-01	0	535	535	2019-01-10	Cross Ditches	Jedney Creek	Quad/ATV	Permanent
BCTS	A95966-24245-02	0	761	761	2019-01-10	Cross Ditches	Jedney Creek	Quad/ATV	Permanent
BCTS	A95966-24245-A	0	629	629	2019-01-10	Cross Ditches	Jedney Creek	Quad/ATV	Permanent
BCTS	A95966-24273-A	0	697	697	2019-01-10	Cross Ditches	Jedney Creek	Quad/ATV	Permanent
BCTS	A95966-24273-B	0	1162	1162	2019-01-10	Cross Ditches	Jedney Creek	Quad/ATV	Permanent
BCTS	A95967-24059-A	0	761	761	2018-10-23	Cross Ditches	Jedney Creek	Quad/ATV	Permanent
BCTS	A95967-24272-01	0	224	224	2018-10-23	Cross Ditches	Jedney Creek	Quad/ATV	Permanent
BCTS	A95967-24272-A	0	1309	1309	2018-10-23	Cross Ditches	Jedney Creek	Quad/ATV	Permanent
BCTS	A95967-24272-B	0	239	239	2018-10-23	Cross Ditches	Jedney Creek	Quad/ATV	Permanent
BCTS	A95967-24297-A	0	243	243	2018-10-23	Cross Ditches	Jedney Creek	Quad/ATV	Permanent
BCTS	TA0442-20113-05	0	1196	1196	2018-03-26	Cross Ditches	Jedney Creek	Quad/ATV	Permanent
BCTS	TA0442-20113-07	0	1087	1087	2018-03-26	Cross Ditches	Jedney Creek	Quad/ATV	Permanent
BCTS	TA0442-20113-09	0	1469	1469	2018-03-26	Cross Ditches	Jedney Creek	Quad/ATV	Permanent

- ATV (All Terrain Vehicle)

Appendix 4: Reforestation

Table 44: BCTS Establishment Delay Complete (Inventory Label) 2018

Harvest Date	Opening	License	Permit	Block ID	Activity	Regen Met Date	Stratum	Area	Layer	Sp. 1*	Sp 1 %	Sp. 2*	Sp 2 %
01-Nov-14	94A 054 096	A90800		01202	2-Year Post Plant (C) - FSJ	05-Jul-18	B	15.15	I	At	80	Sx	20
01-Nov-14	94A 054 096	A90800		01202	2-Year Post Plant (C) - FSJ	05-Jul-18	A2	3.16	I	At	100		
01-Nov-14	94A 054 096	A90800		01202	2-Year Post Plant (C) - FSJ	05-Jul-18	A1	4.23	I	At	100		
01-Nov-14	94A 054 096	A90800		01202	2-Year Post Plant (C) - FSJ	05-Jul-18	C	4.42	I	At	80	Sx	20
02-Dec-15	94A 032 008	A92231		44052	Decid Stocking - FSJ	09-Aug-18	A	101.78	I	At	100		
01-Jan-02	94A07000 11	A67805		1	Regen/Stocking(Walkthrough)	03-Oct-18	A	6.24	I	Pli	100		
27-Feb-17	94A 065 023	A94642		27004	Regen/Stocking(Walkthrough)	04-Oct-18	B	3.83	I	Sx	100		
27-Feb-17	94A 065 023	A94642		27004	Regen/Stocking(Walkthrough)	04-Oct-18	A	20.31	I	Sx	100		
20-Feb-17	94G 016 004	A76781		37017	Regen/Stocking(Walkthrough)	28-Jul-18	B	2.13	I	Sx	100		
20-Feb-17	94G 016 004	A76781		37017	Regen/Stocking(Walkthrough)	28-Jul-18	A	10.31	I	Pli	100		
19-Jan-16	94A 053 094	A92234		01214	Decid Stocking - FSJ	23-Jul-18	A	34.08	I	At	90	At	10
11-Dec-09	94A 054 075	A82099		01078	Regen/Stocking(Walkthrough)	21-Sep-18	C	3.18	I	At	40	Pl Sx	60
11-Dec-09	94A 054 075	A82099		01078	Regen/Stocking(Walkthrough)	21-Sep-18	B	25.61	I	Sx	100		
11-Dec-09	94A 054 075	A82099		01078	Regen/Stocking(Walkthrough)	21-Sep-18	A	65.46	I	At	40	Pl Sx	60
01-Jan-02	94A 060 011	A52313		1	Regen/Stocking(Walkthrough)	04-Oct-18	A	30.71	I	Sx	100		

Harvest Date	Opening	License	Permit	Block ID	Activity	Regen Met Date	Stratum	Area	Layer	Sp. 1*	Sp 1 %	Sp. 2*	Sp 2 %
01-Nov-14	94A 054 096	A90800		01202	Decid Stocking - FSJ	18-Jul-18	B	15.15	I	At	80	Sx	20
01-Nov-14	94A 054 096	A90800		01202	Decid Stocking - FSJ	18-Jul-18	A2	15.15	I	At	100		
01-Nov-14	94A 054 096	A90800		01202	Decid Stocking - FSJ	18-Jul-18	A1	3.16	I	At	100		
01-Nov-14	94A 054 096	A90800		01202	Decid Stocking - FSJ	18-Jul-18	C	4.23	I	At	80	Sx	20
01-Jan-02	94A06000 13	A52313		2	Regen/Stocking(Walkthrough)	27-Sep-18	A	3.16	I	Sx	100		
16-Dec-03	94A05500 36	A63407		1	Regen/Stocking(Walkthrough)	04-Oct-18	A	4.42	I	Sx	100		
21-Nov-14	94A 054 097	A90800		01280	2-Year Post Plant (C) - FSJ – FRPA[31] Section 108	04-Jul-18	C	101.78	I	At	50	Sx(At)	50
08-Feb-16	94B100 038	A76786		03070	2-Year Post Plant (C) - FSJ	10-Dec-18	B	6.24	I	At	90	Sx	10
08-Feb-16	94B100 038	A76786		03070	2-Year Post Plant (C) - FSJ	10-Dec-18	A	3.83	I	At	90	Sx	10
14-Feb-17	94G 016 005	A76781		37019	Planting(Walkthrough)	28-Jul-18	1	3.16	I	Sx	80	At	20
14-Feb-17	94G 016 005	A76781		37019	Planting(Walkthrough)	28-Jul-18	2	0.74	I	Pli	100		
01-Nov-92	94A07000 8	A31990		1	Regen/Stocking(Walkthrough)	31-Aug-18	A	51.76	I	Sx	60	At	40
20-Jan-05	94A 055 035	A64846		1	Regen/Stocking(Walkthrough)	03-Oct-18	A	17.77	I	Sx	100		
03-Feb-05	94A 065 010	A63417		1	Regen/Stocking(Walkthrough)	04-Oct-18	A	28.95	I	Sx	80	At	20

[31] FRPA – Forest and Range Practices Act

Harvest Date	Opening	License	Permit	Block ID	Activity	Regen Met Date	Stratum	Area	Layer	Sp. 1*	Sp 1 %	Sp. 2*	Sp 2 %
16-Dec-15	94A 061 056	A92971		04161	Decid Stocking - FSJ	03-Aug-18	A	16.86	I	Ac	90	At	10
30-Nov-16	94G 029 001	A93439		24269	Planting(Walkthrough)	17-Aug-18	A	19.60	I	Pli	90	Ep	10
30-Nov-16	94G 029 001	A93439		24269	Planting(Walkthrough)	17-Aug-18	B	11.13	I	At	60	Pl Sx	40
08-Feb-16	94B100 038	A76786		03070	Decid Stocking - FSJ	10-Dec-18	B	15.51	I	At	90	Sx	10
08-Feb-16	94B100 038	A76786		03070	Decid Stocking - FSJ	10-Dec-18	A	10.62	I	At	90	Sx	10

* Abbreviations:

Pli – Lodgepole Pine interior

Pl – Lodgepole Pine

Sx – Hybrid Spruce

Ac – Poplar

At – Trembling Aspen

Ep – Paper Birch

Table 45: BCTS Establishment Delay Complete (Silviculture Label) 2018

Harvest Date	Opening	License	Permit	Block ID	Activity	Regen Met Date	Stratum	Area	Layer	Sp. 1	Sp 1 %	Sp. 2	Sp 2 %
19-Jan-16	94A 053 094	A92234		01214	Decid Stocking - FSJ	23-Jul-18	A	34.08	At	93	Ac	7	
11-Dec-09	94A 054 075	A82099		01078	Regen/Stocking(Walkthrough)	21-Sep-18	C	3.18	Sx	52	Pli	48	
11-Dec-09	94A 054 075	A82099		01078	Regen/Stocking(Walkthrough)	21-Sep-18	B	25.61	Sx	100			
11-Dec-09	94A 054 075	A82099		01078	Regen/Stocking(Walkthrough)	21-Sep-18	A	65.46	Sx	52	Pli	48	
01-Jan-02	94A 060 011	A52313		1	Regen/Stocking(Walkthrough)	04-Oct-18	A	30.71	Sx	100			
01-Nov-14	94A 054 096	A90800		01202	Decid Stocking - FSJ	18-Jul-18	B	15.15	Sx	100			
01-Nov-14	94A 054 096	A90800		01202	Decid Stocking - FSJ	18-Jul-18	A2	3.16	At	100			
01-Nov-14	94A 054 096	A90800		01202	Decid Stocking - FSJ	18-Jul-18	A1	4.23	At	100			
01-Nov-14	94A 054 096	A90800		01202	Decid Stocking - FSJ	18-Jul-18	C	4.42	Sx	100			
01-Jan-02	94A06000 13	A52313		2	Regen/Stocking(Walkthrough)	27-Sep-18	A	19.20	Sx	100			
16-Dec-03	94A05500 36	A63407		1	Regen/Stocking(Walkthrough)	04-Oct-18	A	3.02	Sx	100			
21-Nov-14	94A 054 097	A90800		01280	2-Year Post Plant (C) - FSJ - FRPA Section 108	04-Jul-18	C	7.56	Sx	100			
08-Feb-16	94B100 038	A76786		03070	2-Year Post Plant (C) - FSJ	10-Dec-18	B	15.51	Sw	100			
08-Feb-16	94B100 038	A76786		03070	2-Year Post Plant (C) - FSJ	10-Dec-18	A	10.62	Sw	100			
14-Feb-17	94G 016 005	A76781		37019	Planting(Walkthrough)	28-Jul-18	1	3.49	Sx	100			
14-Feb-17	94G 016 005	A76781		37019	Planting(Walkthrough)	28-Jul-18	2	0.74	Pli	100			
01-Nov-92	94A07000 8	A31990		1	Regen/Stocking(Walkthrough)	31-Aug-18	A	51.76	Sx	99	Pli	1	
20-Jan-05	94A 055 035	A64846		1	Regen/Stocking(Walkthrough)	03-Oct-18	A	17.77	Sx	100			
03-Feb-05	94A 065 010	A63417		1	Regen/Stocking(Walkthrough)	04-Oct-18	A	28.95	Sx	100			
16-Dec-15	94A 061 056	A92971		04161	Decid Stocking - FSJ	03-Aug-18	A	16.86	Ac	90	At	10	
30-Nov-16	94G 029 001	A93439		24269	Planting(Walkthrough)	17-Aug-18	A	19.60	Pli	100			
30-Nov-16	94G 029 001	A93439		24269	Planting(Walkthrough)	17-Aug-18	B	11.13	Sx	55	Pli	45	
08-Feb-16	94B100 038	A76786		03070	Decid Stocking - FSJ	10-Dec-18	B	15.51	Sw	100			
08-Feb-16	94B100 038	A76786		03070	Decid Stocking - FSJ	10-Dec-18	A	10.62	Sw	100			

Table 46: BCTS Planting Activities (2018)

Harvest Start Date	Opening	License	Permit	Block ID	Activity	Activity Date	Area	Seed Lot #	Species	# Trees
01-Nov-92	94A07000 8	A31990		1	Planting (Container) - FSJ - FRPA - Section 108	05-Jul-18	51.8	60455	Spruce	81900
01-Jan-02	94A06000 13	A52313		2	Planting (Container) - FSJ - FRPA - Section 108	06-Jul-18	19.2	60455	Spruce	32760
01-Jan-02	94A 060 011	A52313		1	Planting (Container) - FSJ - FRPA - Section 108	05-Jul-18	30.7	60455	Spruce	51240
18-Feb-10	94A05400 66	A63402		1	Planting (Container) - FSJ - FRPA - Section 108	11-Jun-18	12.04	60455	Spruce	20370
15-Nov-06	94A05400 55	A63403		1	Planting (Container) - FSJ - FRPA - Section 108	28-Jun-18	86.36	39464	Lodgepole Pine	6960
15-Nov-06	94A05400 55	A63403		1	Planting (Container) - FSJ - FRPA - Section 108	28-Jun-18		39464	Lodgepole Pine	31500
15-Nov-06	94A05400 55	A63403		1	Planting (Container) - FSJ - FRPA - Section 108	28-Jun-18		60455	Spruce	36330
15-Nov-06	94A05400 55	A63403		1	Planting (Container) - FSJ - FRPA - Section 108	28-Jun-18		60455	Spruce	31290
15-Nov-06	94A05400 55	A63403		1	Planting (Container) - FSJ - FRPA - Section 108	28-Jun-18		60455	Spruce	47250
07-Feb-07	94A05400 61	A63404		1	Planting (Container) - FSJ - FRPA - Section 108	27-Jun-18	67.57	60455	Spruce	116550
30-Dec-05	94A05400 59	A63405		1	Planting (Container) - FSJ - FRPA - Section 108	18-Jun-18	9.87	39464	Lodgepole Pine	11850
30-Dec-05	94A05400 59	A63405		1	Planting (Container) - FSJ - FRPA - Section 108	18-Jun-18	15.83	39464	Lodgepole Pine	11850
30-Dec-05	94A05400 59	A63405		1	Planting (Container) - FSJ - FRPA - Section 108	18-Jun-18	35.5	60455	Spruce	50820
16-Dec-03	94A05500 36	A63407		1	Planting (Container) - FSJ - FRPA - Section 108	01-Jul-18	3.02	60455	Spruce	4935

Harvest Start Date	Opening	License	Permit	Block ID	Activity	Activity Date	Area	Seed Lot #	Species	# Trees
03-Feb-05	94A 065 010	A63417		1	Planting (Container) - FSJ - FRPA - Section 108	28-Jun-18	29.94	40123	Spruce	2880
03-Feb-05	94A 065 010	A63417		1	Planting (Container) - FSJ - FRPA - Section 108	28-Jun-18		40124	Spruce	16080
03-Feb-05	94A 065 010	A63417		1	Planting (Container) - FSJ - FRPA - Section 108	28-Jun-18		40125	Spruce	8160
03-Feb-05	94A 065 010	A63417		1	Planting (Container) - FSJ - FRPA - Section 108	28-Jun-18		60455	Spruce	2205
03-Feb-05	94A 065 010	A63417		1	Planting (Container) - FSJ - FRPA - Section 108	28-Jun-18		60455	Spruce	14910
03-Feb-05	94A 065 010	A63417		1	Planting (Container) - FSJ - FRPA - Section 108	28-Jun-18		60455	Spruce	2520
12-Nov-12	94A 069 016	A63422		2	Planting (Container) - FSJ - FRPA - Section 108	03-Jul-18	16.77	39464	Lodgepole Pine	2880
12-Nov-12	94A 069 016	A63422		2	Planting (Container) - FSJ - FRPA - Section 108	03-Jul-18		53649	Lodgepole Pine	6720
12-Nov-12	94A 069 016	A63422		2	Planting (Container) - FSJ - FRPA - Section 108	03-Jul-18	27.58	39464	Lodgepole Pine	2880
12-Nov-12	94A 069 017	A63422		1	Planting (Container) - FSJ - FRPA - Section 108	03-Jul-18	60.78	39464	Lodgepole Pine	3150
12-Nov-12	94A 069 017	A63422		1	Planting (Container) - FSJ - FRPA - Section 108	03-Jul-18		39464	Lodgepole Pine	49200
12-Nov-12	94A 069 017	A63422		1	Planting (Container) - FSJ - FRPA - Section 108	03-Jul-18		60455	Spruce	47250
20-Jan-05	94A 055 035	A64846		1	Planting (Container) - FSJ - FRPA - Section 108	11-Jun-18	16.99	60455	Spruce	29610
01-Jan-02	94A07000 11	A67805		1	Planting (Container) - FSJ - FRPA - Section 108	06-Jul-18	6.24	39464	Lodgepole Pine	10560
14-Feb-17	94G 016 005	A76781		37019	Planting (Container) - FSJ	28-Jul-18	0.74	08790	Lodgepole Pine	1080

Harvest Start Date	Opening	License	Permit	Block ID	Activity	Activity Date	Area	Seed Lot #	Species	# Trees
20-Feb-17	94G 016 004	A76781		37017	Planting (Container) - FSJ	29-Jul-18	2.13	08790	Lodgepole Pine	3670
14-Feb-17	94G 016 005	A76781		37019	Planting (Container) - FSJ	28-Jul-18	3.49	40125	Spruce	6240
27-Feb-17	94G 016 007	A76781		37018	Planting (Container) - FSJ	31-Jul-18	6.39	08790	Lodgepole Pine	10900
20-Feb-17	94G 016 004	A76781		37017	Planting (Container) - FSJ	29-Jul-18	10.31	40125	Spruce	17620
10-Mar-17	94G 016 006	A76781		37020	Planting (Container) - FSJ	26-Jul-18	18.12	40125	Spruce	30350
27-Feb-17	94G 016 007	A76781		37018	Planting (Container) - FSJ	31-Jul-18	51.17	40125	Spruce	82180
18-Feb-16	94B 100 037	A76786		03047	Road/Pile Plant - FSJ	20-Aug-18	2.77	40125	Spruce	2750
18-Feb-16	94B 100 037	A76786		03047	Road/Pile Plant - FSJ	20-Aug-18		60455	Spruce	9240
15-Dec-07	94H 053 001	A76792		41004	Fill Plant (Container) - FSJ	16-Aug-18	5.47	08789	Spruce	9827
15-Dec-07	94H 053 001	A76792		41004	Fill Plant (Container) - FSJ	16-Aug-18	14.05	60455	Spruce	22425
11-Dec-09	94A 054 075	A82099		01078	Planting (Container) - FSJ - FRPA - Section 108	11-Jun-18	25.61	60455	Spruce	42437
11-Dec-09	94A 054 075	A82099		01078	Planting (Container) - FSJ - FRPA - Section 108	11-Jun-18		60455	Spruce	10974
11-Dec-09	94A 054 075	A82099		01078	Planting (Container) - FSJ - FRPA - Section 108	11-Jun-18	68.64	39464	Lodgepole Pine	66000
11-Dec-09	94A 054 075	A82099		01078	Planting (Container) - FSJ - FRPA - Section 108	11-Jun-18		60455	Spruce	5880
11-Dec-09	94A 054 075	A82099		01078	Planting (Container) - FSJ - FRPA - Section 108	11-Jun-18		60455	Spruce	39060
11-Dec-09	94A 054 075	A82099		01078	Planting (Container) - FSJ - FRPA - Section 108	11-Jun-18		60455	Spruce	10920
19-Jan-15	94G 009 034	A82101		03072	Fill Plant (Container) - FSJ	26-Aug-18	3.86	60455	Spruce	9200
10-Dec-07	94A05500 38	A82651		27009	Planting (Container) - FSJ - FRPA - Section 108	30-Jun-18	4.98	08991	Lodgepole Pine	7229
10-Dec-07	94A05500 38	A82651		27009	Planting (Container) - FSJ - FRPA - Section 108	30-Jun-18	43.4	39464	Lodgepole Pine	20497

Harvest Start Date	Opening	License	Permit	Block ID	Activity	Activity Date	Area	Seed Lot #	Species	# Trees
10-Dec-07	94A05500 38	A82651		27009	Planting (Container) - FSJ - FRPA - Section 108	30-Jun-18		60455	Spruce	20453
02-Jan-15	94A 071 067	A90903		04141	Fill Plant (Container) - FSJ	26-Aug-18	17.22	60455	Spruce	16113
02-Jan-15	94A 071 067	A90903		04141	Fill Plant (Container) - FSJ	26-Aug-18		60455	Spruce	6030
21-Nov-14	94H 015 018	A90905		18043	Road/Pile Plant - FSJ	15-Aug-18	3.52	60455	Spruce	7260
19-Jan-16	94A 053 094	A92234		01214	Road/Pile Plant - FSJ	16-Aug-18	1.46	08789	Lodgepole Pine	1764
05-Jan-16	94A 053 095	A92234		01215	Road/Pile Plant - FSJ	17-Aug-18	2.01	08789	Lodgepole Pine	3240
07-Dec-15	94A 053 093	A92234		01195	Road/Pile Plant - FSJ	17-Aug-18	2.24	08789	Lodgepole Pine	2580
24-Jan-16	94A 061 053	A92970		04068	Road/Pile Plant - FSJ	17-Aug-18	0.87	60455	Spruce	1935
12-Dec-15	94A 061 051	A92970		04063	Road/Pile Plant - FSJ	16-Aug-18	0.89	60455	Spruce	1630
12-Dec-15	94A 061 052	A92970		04064	Road/Pile Plant - FSJ	16-Aug-18	1.45	60455	Spruce	1630
24-Jan-16	94A 061 054	A92970		04066	Road/Pile Plant - FSJ	17-Aug-18	1.94	60455	Spruce	2160
23-Jan-17	94A 061 064	A92972		04067	Road/Pile Plant - FSJ	16-Aug-18	1.1	60455	Spruce	1780
23-Dec-16	94G 009 039	A92974		03114	Planting (Container) - FSJ	25-Jul-18	38.11	60455	Spruce	61460
08-Feb-17	94G 020 021	A92976		24355	Road/Pile Plant - FSJ	12-Aug-18	0.32	60455	Spruce	750
15-Dec-16	94G 020 022	A92976		24205	Planting (Container) - FSJ	17-Aug-18	14.46	60455	Spruce	15310
15-Dec-16	9G 020 022	A92976		24205	Planting (Container) - FSJ	17-Aug-18	79.78	08790	Lodgepole Pine	67950
15-Dec-16	9G 020 022	A92976		24205	Planting (Container) - FSJ	17-Aug-18		60455	Spruce	54360
24-Feb-17	94A 081 008	A92980		02268	Planting (Container) - FSJ	11-Aug-18	5.56	60455	Spruce	10830
24-Feb-17	94B 100 046	A92980		03100	Planting (Container) - FSJ	14-Aug-18	71.32	60455	Spruce	117200
23-Jan-18	94B 030 115	A92985		45042	Planting (Container) - FSJ	27-Aug-18	50.20	08789	Lodgepole Pine	3277
23-Jan-18	94B 030 115	A92985		45042	Planting (Container) - FSJ	27-Aug-18		08790	Lodgepole Pine	13390
23-Jan-18	94B 030 115	A92985		45042	Planting (Container) - FSJ	27-Aug-18		60455	Spruce	51455

Harvest Start Date	Opening	License	Permit	Block ID	Activity	Activity Date	Area	Seed Lot #	Species	# Trees
23-Jan-18	94B 030 115	A92985		45042	Planting (Container) - FSJ	27-Aug-18		60455	Spruce	5700
23-Dec-16	94G 029 002	A93439		24270	Planting (Container) - FSJ	20-Aug-18	7.36	08789	Lodgepole Pine	11400
30-Nov-16	94G 029 001	A93439		24269	Planting (Container) - FSJ	17-Aug-18	11.13	08789	Lodgepole Pine	17592
30-Dec-16	94G 039 004	A93439		24249	Planting (Container) - FSJ	24-Aug-18	14.36	08789	Lodgepole Pine	7500
30-Dec-16	94G 039 004	A93439		24249	Planting (Container) - FSJ	24-Aug-18		08790	Lodgepole Pine	3190
30-Dec-16	94G 039 004	A93439		24249	Planting (Container) - FSJ	24-Aug-18		60455	Spruce	1925
30-Dec-16	94G 039 004	A93439		24249	Planting (Container) - FSJ	24-Aug-18	14.36	60455	Spruce	9075
05-Jan-17	94G 039 003	A93439		24248	Planting (Container) - FSJ	24-Aug-18	15.36	08789	Lodgepole Pine	12948
05-Jan-17	94G 039 003	A93439		24248	Planting (Container) - FSJ	24-Aug-18		60455	Spruce	8700
05-Jan-17	94G 039 003	A93439		24248	Planting (Container) - FSJ	24-Aug-18	15.36	60455	Spruce	3720
30-Nov-16	94G 029 001	A93439		24269	Planting (Container) - FSJ	17-Aug-18	19.6	08789	Lodgepole Pine	15936
30-Nov-16	94G 029 001	A93439		24269	Planting (Container) - FSJ	17-Aug-18		60455	Spruce	15760
16-Jan-17	94G 030 038	A93549		24261	Planting (Container) - FSJ	24-Aug-18	37.42	08789	Lodgepole Pine	28004
16-Jan-17	94G 030 038	A93549		24261	Planting (Container) - FSJ	24-Aug-18		08790	Lodgepole Pine	840
16-Jan-17	94G 030 038	A93549		24261	Planting (Container) - FSJ	24-Aug-18	37.42	60455	Spruce	9075
16-Jan-17	94G 030 038	A93549		24261	Planting (Container) - FSJ	24-Aug-18		60455	Spruce	2000
16-Jan-17	94G 030 038	A93549		24261	Planting (Container) - FSJ	24-Aug-18		60455	Spruce	18250
16-Jan-17	94G 030 038	A93549		24261	Planting (Container) - FSJ	24-Aug-18	40.29	08789	Lodgepole Pine	50992
16-Jan-17	94G 030 038	A93549		24261	Planting (Container) - FSJ	24-Aug-18	40.29	08790	Lodgepole Pine	14070

Harvest Start Date	Opening	License	Permit	Block ID	Activity	Activity Date	Area	Seed Lot #	Species	# Trees
02-Jan-17	94G 010 033	A93670		03043	Planting (Container) - FSJ	10-Aug-18	37.22	08790	Lodgepole Pine	59688
02-Jan-17	94G 010 033	A93670		03043	Planting (Container) - FSJ	10-Aug-18	58.63	08790	Lodgepole Pine	50360
02-Jan-17	94G 010 033	A93670		03043	Planting (Container) - FSJ	10-Aug-18		60455	Spruce	50600
19-Nov-16	94B 099 050	A93671		06075	Planting (Container) - FSJ	21-Aug-18	13.51	60455	Spruce	28224
19-Nov-16	94B 099 050	A93671		06075	Planting (Container) - FSJ	21-Aug-18	18.12	60455	Spruce	28224
07-Nov-16	94B 099 049	A93671		06071	Planting (Container) - FSJ	21-Aug-18	27.9	60455	Spruce	42495
22-Feb-17	94B 090 033	A93999		02267	Planting (Container) - FSJ	22-Jul-18	4.48	08790	Lodgepole Pine	6950
22-Feb-17	94B 090 033	A93999		02267	Planting (Container) - FSJ	22-Jul-18	16.96	60455	Spruce	28970
11-Feb-18	94B 070 032	A94061		05053	Planting (Container) - FSJ	02-Aug-18	2.91	08790	Lodgepole Pine	2500
11-Feb-18	94B 070 032	A94061		05053	Planting (Container) - FSJ	02-Aug-18		08790	Lodgepole Pine	2500
11-Feb-18	94B 070 032	A94061		05053	Planting (Container) - FSJ	02-Aug-18	2.91	60455		2720
13-Feb-18	94B 060 047	A94061		05031	Planting (Container) - FSJ	31-Jul-18	5.89	08790	Lodgepole Pine	4530
13-Feb-18	94B 060 047	A94061		05031	Planting (Container) - FSJ	31-Jul-18		60455	Spruce	3670
06-Feb-18	94B 060 045	A94061		05027	Planting (Container) - FSJ	02-Aug-18	17.42	08790	Lodgepole Pine	14510
06-Feb-18	94B 060 045	A94061		05027	Planting (Container) - FSJ	02-Aug-18		60455	Spruce	14510
24-Jan-18	94B 060 046	A94061		05029	Planting (Container) - FSJ	07-Aug-18	24.31	08790		20670
24-Jan-18	94B 060 046	A94061		05029	Planting (Container) - FSJ	07-Aug-18		60455		20880
20-Nov-17	94B 070 031	A94061		05030	Planting (Container) - FSJ	31-Jul-18	68.92	60455		55424
20-Nov-17	94B 070 031	A94061		05030	Planting (Container) - FSJ	31-Jul-18		08790		55505
27-Feb-17	94A 065 023	A94642		27004	Planting (Container) - FSJ	01-Jul-18	24.14	60455		39060
15-Feb-17	94A065-	A94642		27005	Planting (Container) - FSJ	10-Aug-18	62.07	60455		105840

Harvest Start Date	Opening	License	Permit	Block ID	Activity	Activity Date	Area	Seed Lot #	Species	# Trees
Total							**1682.11**			**2,480,153**

Table 47: Predicted and Target Volumes by Stratum for Coniferous - BCTS 2018

Block Strata Summary	Stratum	Net Area (ha)	Mean SI	Mean EA	Mean MSQ	Mean TSS	PMV/ha	Tot PMV	Target MSQ	Target EA	TMV/ha	Total TMV	PMV % of Target
A63451-1(A)	Pl/WG/17-19/1140-1340	61.0	19.3	16.4	3.8	1,200	468.2	28,559	3.7	14.0	435.8	26,585	107.4%
A60198-1(A) A69487-1(B)	Sx/SR/17-19/1140-1340	55.0	21.4	16.3	2.4	1,195	547.9	30,137	3.7	14.0	596.2	32,793	91.9%
	Totals	*116.0*	*20.3*	*16.4*	*3.2*	*1,198*	*506.0*	*58,696*	*3.7*	*14.0*	*511.9*	*59,379*	*98.8%*

Table 48: Predicted and Target Volumes by Stratum for Deciduous - BCTS 2018

Block Strata Summary	Stratum	Net Area (ha)	Mean SI	Mean EA	Mean MSQ	Mean TSS	PMV/ha	Tot PMV	Target MSQ	Target EA	TMV/ ha	Total TMV	PMV % of Target
A66542-1 (A)	At/WG/18-20/4000-4200	57.2	22.6	10	3.95	4,000	412.1	22,130	3.78	10	370.0	19,871	111.4%

Table 49: Predicted and Target Volumes by Conifer Stratum-Canfor 2018

Stratum	Net Area (ha)	Mean SI (m)	Mean EA (years)	Mean MSQ (#)	Mean TSS (tr/ha)	Mean PMV (m^3/ha)	Total PMV (m^3)	Target MSQ (#)	Target EA (years)	Mean TMV (m^3/ha)	Total TMV (m^3)	PMV % of Target
Pl/WG/16-18/1167-1367	98.1	16.2	14.9	4.0	1,195	311.8	30,585	3.7	14.0	292.7	28,710	106.5%
Pl/WG/16-18/967-1167	23.3	16.3	16.8	4.0	1,160	318.6	7,422	3.7	14.0	295.0	6,873	108.0%
Pl/WG/18-20/1167-1367	189.2	18.0	13.6	3.9	1,188	396.4	74,990	3.7	14.0	375.5	71,049	105.5%
Pl/WG/18-20/967-1167	104.8	18.9	14.5	3.8	1,055	444.6	46,598	3.6	14.0	416.3	43,624	106.8%
Pl/WG/24-26/1167-1367	84.5	23.4	11.7	3.9	1,169	653.5	55,220	3.7	14.0	627.3	53,004	104.2%
PlSx/WG/14-16/967-1167	34.7	16.1	20.2	3.9	1,120	329.7	11,441	3.6	14.0	298.6	10,362	110.4%
PlSx/WG/16-18/1167-1367	23.0	17.8	16.2	4.0	1,200	410.3	9,437	3.7	14.0	381.7	8,779	107.5%
PlSx/WG/16-18/967-1167	85.4	16.2	14.4	3.9	1,145	325.3	27,782	3.7	14.0	306.2	26,152	106.2%
PlSx/WG/18-20/1167-1367	127.8	18.2	15.2	3.9	1,198	430.1	54,973	3.7	14.0	403.2	51,529	106.7%
PlSx/WG/18-20/967-1167	62.4	19.3	15.9	3.9	1,060	492.2	30,711	3.6	14.0	455.8	28,440	108.0%
PlSx/WG/20-22/1167-1367	171.6	21.7	13.8	3.9	1,200	604.2	103,688	3.7	14.0	572.5	98,242	105.5%
PlSx/WG/20-22/767-967	33.7	20.4	14.5	4.0	973	540.5	18,214	3.4	14.0	501.2	16,890	107.8%
PlSx/WG/22-24/1167-1367	94.5	22.3	13.4	3.8	1,200	635.3	60,037	3.7	14.0	603.9	57,067	105.2%
PlSx/WG/22-24/967-1167	51.4	23.8	13.3	3.8	1,024	713.0	36,647	3.5	14.0	673.1	34,597	105.9%
Sx/WG/14-16/967-1167	24.4	18.5	18.4	3.9	1,506	486.1	11,861	3.9	14.0	448.3	10,939	108.4%
Sx/WG/16-18/1167-1367	19.7	18.1	18.9	3.7	1,200	458.0	9,022	3.7	14.0	421.2	8,297	108.7%
Sx/WG/16-18/767-967	55.4	18.1	19.9	4.0	882	463.3	25,667	3.3	14.0	409.5	22,688	113.1%
Sx/WG/16-18/967-1167	95.4	19.0	19.2	4.0	1,099	512.7	48,907	3.6	14.0	466.1	44,470	110.0%
Sx/WG/18-20/1167-1367	48.8	20.2	18.4	3.9	1,200	580.8	28,343	3.7	14.0	533.3	26,024	108.9%
Sx/WG/18-20/767-967	204.2	21.2	17.8	3.8	867	632.2	129,090	3.2	14.0	565.8	115,533	111.7%
Sx/WG/18-20/967-1167	362.1	20.7	18.0	3.9	1,045	606.6	219,636	3.5	14.0	553.9	200,556	109.5%
Sx/WG/20-22/767-967	40.1	24.1	15.7	3.8	920	786.4	31,534	3.3	14.0	721.0	28,912	109.1%
Sx/WG/20-22/967-1167	193.7	22.0	17.2	3.9	1,021	675.0	130,750	3.5	14.0	618.6	119,828	109.1%
Sx/WG/22-24/767-967	71.5	23.2	17.1	3.6	896	734.9	52,548	3.3	14.0	669.8	47,893	109.7%
Sx/WG/22-24/967-1167	82.9	24.5	17.6	3.6	1,034	813.0	67,401	3.5	14.0	749.8	62,155	108.4%
Sx/WG/24-26/1167-1367	8.9	26.2	17.2	3.8	1,200	912.2	8,119	3.7	14.0	845.7	7,527	107.9%
Sx/WG/24-26/767-967	75.4	26.2	15.7	3.8	895	903.0	68,088	3.3	14.0	823.7	62,109	109.6%
Sx/WG/24-26/967-1167	134.5	26.0	15.4	3.7	1,036	889.8	119,684	3.5	14.0	830.3	111,673	107.2%
Sx/WG/26-28/767-967	7.1	26.6	16.7	3.9	800	935.9	6,645	3.1	14.0	829.3	5,888	112.8%
Sx/WG/26-28/967-1167	47.6	27.1	16.8	3.7	1,135	957.3	45,569	3.6	14.0	888.9	42,311	107.7%
Sx/WG/28-30/967-1167	27.7	28.0	17.1	3.0	1,000	953.9	26,423	3.5	14.0	930.7	25,779	102.5%
Sx/WG/30-32/767-967	40.8	29.7	15.4	3.7	927	1,091.8	44,546	3.4	14.0	1,006.4	41,060	108.5%
Totals	**2,724.6**	**21.1**	**16.1**	**3.8**	**1,073**	**602.5**	**1,641,577**	**3.6**	**14.0**	**557.5**	**1,518,959**	**108.1%**

Table 50: Predicted and Target Volumes by Deciduous Stratum – Canfor 2018

Stratum	Net Area (ha)	Mean SI (m)	Mean MSQ (#)	Mean TSS (tr/ha)	Mean PMV (m^3/ha)	Total PMV (m^3)	Target MSQ (#)	Mean TMV (m^3/ha)	Total TMV (m^3)	PMV % of Target
At/WG/15-17/10000-10200	57.1	19.9	4.00	10,000	295.2	16,856	3.96	265.6	15,167	111.1%
At/WG/17-19/10000-10200	1,925.6	20.0	3.97	10,000	295.2	568,379	3.96	265.6	511,496	111.1%
Totals	**1,982.7**	**20.0**	**3.97**	**10,000**	**295.2**	**585,235**	**3.96**	**265.6**	**526,663**	**111.1%**

Table 51: Licensee Participant Planting Activities 2018

Licence	Permit	Block ID	Planting Activity	Planting Start Date	Planted Area (ha)	Seedlot	# of Trees
A59959	786	01003	Planting - Fill Plant	06/24/2018	98.0	63677	121440
A56771	112	01166	Planting - Burn Piles	06/01/2018	3.0	53765	2440
A18154	424	01180	Planting - Burn Piles	06/01/2018	0.0	53765	30
A60049	980	01210	Planting - Burn Piles	06/01/2018	4.0	xxPli	4920
A60049	963	01212	Planting - Burn Piles	06/01/2018	2.0	53765	2370
A60049	963	01213	Planting - Burn Piles	06/01/2018	2.0	53765	2370
A18154	424	01318	Planting - Burn Piles	06/10/2018	7.0	53765	1845
A18154	443	01319	Planting - Burn Piles	07/01/2018	1.0	53765	855
A18154	443	01320	Planting - Burn Piles	06/12/2018	1.0	53765	615
A18154	443	01322	Planting - Burn Piles	06/12/2018	1.0	53765	1200
A18154	444	01330	Planting - Burn Piles	02/21/2018	0.0	53765	120
A18154	424	01331	Planting - Burn Piles	02/02/2018	0.0	53765	75
A18154	444	01332	Planting - Burn Piles	06/24/2018	0.0	53765	120
A18154	424	01333	Planting - Burn Piles	06/10/2018	1.0	53765	1200
A18154	967	02023	Planting - Burn Piles	06/01/2018	2.0	53765	1530
A18154	523	02024	Planting - Burn Piles	03/15/2018	1.0	xxPli	1320
A18154	523	02025	Planting - Establishment	06/01/2018	73.0	53765	96030
A18154	528	02041	Planting - Establishment	06/01/2018	69.0	53765	53130
A18154	528	02041	Planting - Establishment	06/01/2018	69.0	63677	53130
A60972	752	02049	Planting - Fill Plant	07/01/2018	6.0	63677	3360
A56771	946	02053	Planting - Burn Piles	06/01/2018	7.0	53765	1020
A60972	529	02066	Planting - Establishment	06/22/2018	44.0	63677	58860
A18154	997	02090	Planting - Establishment	06/01/2018	49.0	63677	49170
A18154	997	02090	Planting - Establishment	06/01/2018	49.0	53765	16830
A18154	967	02165	Planting - Establishment	06/01/2018	114.0	63677	180960
A18154	967	02165	Planting - Establishment	06/01/2018	114.0	53765	2160
A18154	407	02168	Planting - Establishment	06/26/2018	30.0	63677	41760
A18154	413	02170	Planting - Establishment	06/01/2018	30.0	63677	40095
A60049	423	02188	Planting - Establishment	06/01/2018	7.0	53765	9450
A60049	423	02192	Planting - Establishment	06/22/2018	92.0	63677	19350

Licence	Permit	Block ID	Planting Activity	Planting Start Date	Planted Area (ha)	Seedlot	# of Trees
A60049	423	02192	Planting - Establishment	06/22/2018	92.0	63677	128790
PAG12	APR-90294	02198	Planting - Fill Plant	06/01/2018	4.0	63677	1980
A18154	965	02253	Planting - Establishment	06/01/2018	19.0	63677	26730
A18154	966	02254	Planting - Establishment	06/01/2018	27.0	53765	20130
A18154	966	02254	Planting - Establishment	06/01/2018	27.0	63677	19140
A18154	965	02256	Planting - Establishment	06/14/2018	19.0	53765	19440
A18154	965	02256	Planting - Establishment	06/14/2018	19.0	63677	6600
A18154	966	02257	Planting - Establishment	06/01/2018	44.0	53765	47790
A18154	966	02257	Planting - Establishment	06/01/2018	44.0	63677	13200
A18154	966	02258	Planting - Establishment	06/01/2018	9.0	63677	12070
A56771	990	03036	Planting - Burn Piles	06/23/2018	1.0	30779	1485
A18154	968	03041	Planting - Burn Piles	07/15/2018	1.0	30779	1845
A18154	948	03042	Planting - Burn Piles	01/07/2018	3.0	30779	1680
A56771	524	03091	Planting - Establishment	05/14/2018	18.0	48556	25410
A18154	426	03095	Planting - Establishment	06/22/2018	79.0	63677	86085
A18154	426	03095	Planting - Establishment	06/22/2018	79.0	53765	22470
A56771	970	03098	Planting - Burn Piles	06/01/2018	1.0	30779	975
A60972	956	03108	Planting - Burn Piles	07/19/2018	1.0	53765	825
A18154	957	03112	Planting - Burn Piles	06/25/2018	3.0	53765	1935
A18154	957	03112	Planting - Burn Piles	06/25/2018	3.0	30779	6690
A60972	941	03121	Planting - Burn Piles	06/01/2018	8.0	53765	11955
A56771	971	03130	Planting - Burn Piles	06/17/2018	1.0	30779	1605
A18154	969	03131	Planting - Burn Piles	06/11/2018	0.0	30779	195
A56771	409	03132	Planting - Burn Piles	07/01/2018	0.0	30779	330
A18154	170	04022	Planting - Fill Plant	06/01/2018	4.0	63677	2310
A18154	170	04023	Planting - Fill Plant	06/01/2018	190.0	63677	200025
A18154	169	04026	Planting - Fill Plant	06/01/2018	5.0	63677	3960
A18154	169	04028	Planting - Fill Plant	06/01/2018	9.0	63677	7905
A18154	530	04033	Planting - Establishment	06/10/2018	25.0	63677	38610
A18154	530	04034	Planting - Establishment	06/07/2018	4.0	63677	6600
A56771	525	04075	Planting - Establishment	03/31/2018	64.0	53765	74040
A56771	525	04075	Planting - Establishment	03/31/2018	64.0	63677	25485

Licence	Permit	Block ID	Planting Activity	Planting Start Date	Planted Area (ha)	Seedlot	# of Trees
A56771	525	04088	Planting - Establishment	06/01/2018	6.0	63677	9060
A56771	526	04089	Planting - Establishment	06/01/2018	29.0	48556	22440
A56771	526	04089	Planting - Establishment	06/01/2018	29.0	63677	22920
A18154	502	04125	Planting - Establishment	06/01/2018	30.0	63677	16080
A18154	966	04137	Planting - Establishment	06/01/2018	92.0	63677	88010
A18154	966	04137	Planting - Establishment	06/01/2018	92.0	53765	12690
A18154	966	04137	Planting - Establishment	06/01/2018	92.0	63592	21285
A18154	966	04137	Planting - Establishment	06/01/2018	92.0	63677	315
A18154	966	04137	Planting - Establishment	06/01/2018	92.0	63592	2220
A56771	605	05012	Planting - Fill Plant	06/01/2018	18.0	63592	2235
A56771	605	05012	Planting - Fill Plant	06/01/2018	18.0	63592	12690
A56771	918	05026	Planting - Fill Plant	06/01/2018	15.0	63592	10530
A56771	605	05129	Planting - Fill Plant	06/01/2018	31.0	63592	9975
A56771	605	05129	Planting - Fill Plant	06/01/2018	31.0	63677	4035
A56771	605	05129	Planting - Fill Plant	06/01/2018	31.0	63592	13365
A56771	532	06024	Planting - Establishment	06/02/2018	95.0	30779	31860
A56771	532	06024	Planting - Establishment	06/02/2018	95.0	63677	96090
PAG20	APR-93942	06030	Planting - Burn Piles	07/01/2018	2.0	53765	1170
A18154	522	06056	Planting - Establishment	06/22/2018	26.0	63677	12690
A18154	522	06056	Planting - Establishment	06/22/2018	26.0	53765	23175
A18154	984	06064	Planting - Burn Piles	07/01/2018	2.0	30779	660
A18154	984	06064	Planting - Burn Piles	07/01/2018	2.0	53765	990
A18154	976	06068	Planting - Burn Piles	07/07/2018	3.0	30779	6180
A56771	945	06083	Planting - Burn Piles	06/01/2018	3.0	30779	1635
A18154	979	06093	Planting - Burn Piles	06/27/2018	4.0	30779	5190
A18154	969	06096	Planting - Burn Piles	07/01/2018	2.0	30779	3255
A18154	979	06097	Planting - Burn Piles	06/01/2018	2.0	30779	2265
A18154	263	09033	Planting - Establishment	06/01/2018	3.0	63677	4860
A18154	261	09078	Planting - Establishment	06/01/2018	6.0	xxSxw	9440
A60972	951	18052	Planting - Establishment	08/04/2018	38.0	63677	26370
A60972	951	18052	Planting - Establishment	08/04/2018	38.0	53765	23760
A60972	949	18053	Planting - Establishment	03/15/2018	84.0	63677	117990

Licence	Permit	Block ID	Planting Activity	Planting Start Date	Planted Area (ha)	Seedlot	# of Trees
A60972	949	18054	Planting - Establishment	06/01/2018	64.0	63677	86940
A60972	952	18055	Planting - Establishment	07/15/2018	86.0	63677	64320
A60972	952	18055	Planting - Establishment	07/15/2018	86.0	53765	61020
A18154	543	19024	Planting - Establishment	06/01/2018	33.0	30779	23220
A18154	543	19024	Planting - Establishment	06/01/2018	33.0	63677	22065
A18154	685	19027	Planting - Establishment	06/15/2018	28.0	63677	38490
A18154	685	19028	Planting - Establishment	06/15/2018	45.0	63677	45915
A18154	685	19028	Planting - Establishment	06/15/2018	45.0	63677	15120
A18154	678	19029	Planting - Establishment	06/22/2018	115.0	63677	150270
A18154	600	19031	Planting - Establishment	06/22/2018	113.0	53765	183945
A18154	536	19037	Planting - Establishment	06/01/2018	20.0	63677	14580
A18154	536	19037	Planting - Establishment	06/01/2018	20.0	30779	14580
A18154	675	19072	Planting - Burn Piles	07/21/2018	3.0	30779	3510
A18154	678	19075	Planting - Establishment	06/22/2018	34.0	63677	22080
A18154	678	19075	Planting - Establishment	06/22/2018	34.0	53765	23430
A18154	600	19078	Planting - Establishment	06/01/2018	32.0	30779	45240
A18154	673	19079	Planting - Establishment	06/22/2018	13.0	30779	8940
A18154	673	19079	Planting - Establishment	06/22/2018	13.0	63677	8910
A18154	600	19080	Planting - Establishment	06/23/2018	48.0	30779	77265
A18154	600	19080	Planting - Establishment	06/23/2018	48.0	53765	585
A18154	600	19081	Planting - Establishment	06/01/2018	27.0	30779	39645
A18154	994	23025	Planting - Establishment	06/22/2018	26.0	63677	38070
A18154	809	23070	Planting - Establishment	06/01/2018	89.0	63592	7890
A18154	809	23070	Planting - Establishment	06/01/2018	89.0	63592	810
A18154	809	23070	Planting - Establishment	06/01/2018	89.0	63677	10065
A18154	809	23070	Planting - Establishment	06/01/2018	89.0	53765	18570
A18154	809	23070	Planting - Establishment	06/01/2018	89.0	63677	2900
A18154	809	23070	Planting - Establishment	06/01/2018	89.0	48556	74250
A18154	809	23070	Planting - Establishment	06/01/2018	89.0	53765	8460
A18154	683	24037	Planting - Establishment	08/09/2018	58.0	63677	82350
A56771	661	24051	Planting - Burn Piles	06/01/2018	3.0	30779	3240
A56771	665	24061	Planting - Establishment	06/01/2018	56.0	63677	38055

Licence	Permit	Block ID	Planting Activity	Planting Start Date	Planted Area (ha)	Seedlot	# of Trees
A56771	665	24061	Planting - Establishment	06/01/2018	56.0	30779	39420
A56771	666	24062	Planting - Establishment	06/01/2018	68.0	53765	47250
A56771	666	24062	Planting - Establishment	06/01/2018	68.0	63677	47250
A18154	667	24226	Planting - Establishment	06/25/2018	17.0	63677	24300
A18154	667	24227	Planting - Establishment	06/22/2018	6.0	63677	8640
A18154	671	24285	Planting - Establishment	06/01/2018	39.0	63677	40935
A18154	671	24285	Planting - Establishment	06/01/2018	39.0	53765	12375
A18154	671	24286	Planting - Establishment	06/15/2018	16.0	63677	22140
A18154	672	24288	Planting - Establishment	06/01/2018	17.0	63677	11610
A18154	672	24288	Planting - Establishment	06/01/2018	17.0	53765	11610
A18154	683	24310	Planting - Establishment	08/10/2018	46.0	63677	53040
A18154	683	24310	Planting - Establishment	08/10/2018	46.0	30779	20850
A18154	674	24317	Planting - Establishment	06/01/2018	197.0	63677	176070
A18154	674	24317	Planting - Establishment	06/01/2018	197.0	30779	69930
A60049	676	24325	Planting - Establishment	06/01/2018	159.0	53765	112050
A60049	676	24325	Planting - Establishment	06/01/2018	159.0	63677	111150
A18154	450	25061	Planting - Establishment	06/01/2018	1.0	63677	825
A18154	450	25064	Planting - Establishment	06/01/2018	4.0	63677	5220
A18154	450	25072	Planting - Establishment	06/01/2018	3.0	63677	4755
A18154	424	27039	Planting - Burn Piles	07/26/2018	1.0	53765	690
A60972	446	27040	Planting - Burn Piles	06/20/2018	1.0	53765	960
A18154	445	27042	Planting - Burn Piles	06/30/2018	3.0	53765	4050
A18154	445	27063	Planting - Establishment	07/20/2018	8.0	63677	11505
A18154	451	31003	Planting - Establishment	06/01/2018	19.0	63677	8955
A18154	451	31003	Planting - Establishment	06/01/2018	19.0	63677	17850
A18154	450	31005	Planting - Establishment	06/01/2018	2.0	63677	2430
A18154	451	31016	Planting - Establishment	06/01/2018	17.0	63677	24370
A18154	451	31017	Planting - Establishment	06/01/2018	22.0	63677	29970
A18154	451	31019	Planting - Establishment	06/01/2018	2.0	63677	2480
A18154	450	31023	Planting - Establishment	06/01/2018	2.0	63677	2900
A18154	266	44063	Planting - Burn Piles	07/29/2018	4.0	53765	5535
A60049	270	45047	Planting - Burn Piles	06/10/2018	14.0	53765	11625

Licence	Permit	Block ID	Planting Activity	Planting Start Date	Planted Area (ha)	Seedlot	# of Trees
A18154	278	45061	Planting - Burn Piles	07/15/2018	5.0	53765	6900
A18154	278	45067	Planting - Establishment	06/01/2018	6.0	53765	4320
A18154	278	45067	Planting - Establishment	06/01/2018	6.0	63677	3970
A18154	669	S24033	Planting - Burn Piles	06/01/2018	1.0	30779	510
A18154	669	S24033	Planting - Burn Piles	06/01/2018	1.0	53765	1215
A18154	670	S24049	Planting - Establishment	06/22/2018	62.0	63677	47430
A18154	670	S24049	Planting - Establishment	06/22/2018	62.0	53765	46995
A18154	664	S24050	Planting - Establishment	06/22/2018	5.0	63677	8370
PAG20	APR-94109	S24059	Planting - Burn Piles	06/08/2018	1.0	53765	330
Total					**5,996**		**4,498,985**

Table 52: Establishment Delay Report – Inventory Layer – Licensee Participants 2018

Harvest Start Date	Licensee	Licence	CP	Block ID	Regen Delay Met Date	Stratum Name	Stratum Area (ha)	Layer Type	Sp. 1	% Sp. 1	Sp. 2	% Sp. 2	Sp. 3	% Sp. 3
04/06/2017	CANFOR	A18154	523	02025	07/01/2018	A	72.5	I	Pli	100				
07/24/2017	CANFOR	A18154	528	02041	06/24/2018	A	68.5	I	Pli	50	Sx	50		
03/09/2011	MPMC	A60972	752	02049	07/01/2018	A	6.3	I	Sx	100				
09/04/2017	MPMC	A60972	529	02066	08/14/2018	A	43.5	I	Sx	100				
03/06/2017	CANFOR	A18154	997	02090	07/05/2018	A	48.7	I	Sx	75	Pli	25		
03/26/2017	CANFOR	A18154	967	02165	08/11/2018	A	114.3	I	Sx	99	Pli	1		
03/22/2017	CANFOR	A18154	407	02168	07/02/2018	A	29.9	I	Sx	100				
02/10/2017	CANFOR	A18154	413	02170	07/03/2018	A	29.5	I	Sx	100				
09/11/2017	LP	A60049	423	02188	07/07/2018	B	7.0	I	Pli	100				
09/15/2017	LP	A60049	423	02192	08/07/2018	A	95.2	I	Sx	100				
08/07/2017	CANFOR	A18154	965	02253	07/03/2018	A	18.7	I	Sx	100				
11/07/2016	CANFOR	A18154	966	02254	07/02/2018	A	27.1	I	Pli	50	Sx	50		
08/29/2017	CANFOR	A18154	965	02256	06/29/2018	A	18.0	I	Pli	75	Sx	25		
08/11/2017	CANFOR	A18154	966	02257	06/30/2018	A	44.0	I	Pli	78	Sx	22		
11/07/2016	CANFOR	A18154	966	02258	07/03/2018	A	8.9	I	Sx	100				
06/27/2017	CANFOR	A56771	524	03091	07/07/2018	A	18.0	I	Pli	100				
09/26/2017	CANFOR	A18154	426	03095	08/05/2018	A	57.1	I	Sx	80	Pli	20		
09/26/2017	CANFOR	A18154	426	03095	08/05/2018	B	21.7	I	Sx	80	Pli	20		
01/15/2013	CANFOR	A18154	170	04022	07/14/2018	A	3.5	I	Sx	100				
10/25/2012	CANFOR	A18154	170	04023	07/14/2018	A	85.8	I	Sx	100				
10/25/2012	CANFOR	A18154	170	04023	07/14/2018	B	104.4	I	Sx	100				
12/06/2012	CANFOR	A18154	169	04026	07/12/2018	A	5.0	I	Sx	100				
12/18/2012	CANFOR	A18154	169	04028	07/15/2018	A	8.5	I	Sx	100				
07/01/2017	CANFOR	A18154	530	04033	07/03/2018	A	24.7	I	Sx	100				
12/07/2017	CANFOR	A18154	530	04034	07/06/2018	A	4.2	I	Sx	100				
03/31/2017	CANFOR	A56771	525	04075	07/06/2018	A	64.1	I	Pli	75	Sx	25		
07/19/2017	CANFOR	A56771	525	04088	07/11/2018	A	5.8	I	Sx	100				
03/25/2017	CANFOR	A56771	526	04089	07/12/2018	A	28.9	I	Pli	50	Sx	50		
08/18/2017	CANFOR	A18154	502	04125	08/09/2018	A	30.1	I	Sx	100				
10/15/2016	CANFOR	A18154	966	04137	07/12/2018	A	92.1	I	Sx	90	Pli	10		
04/05/2013	CANFOR	A56771	605	05012	07/14/2018	A	18.2	I	Sx	100				

Harvest Start Date	Licensee	Licence	CP	Block ID	Regen Delay Met Date	Stratum Name	Stratum Area (ha)	Layer Type	Sp. 1	% Sp. 1	Sp. 2	% Sp. 2	Sp. 3	% Sp. 3
10/10/2013	CANFOR	A56771	918	05026	07/14/2018	A	14.9	I	Sx	100				
04/05/2013	CANFOR	A56771	605	05129	07/14/2018	B	30.9	I	Sx	100				
08/30/2017	CANFOR	A56771	532	06024	08/04/2018	A	72.4	I	Sx	75	Pli	25		
08/30/2017	CANFOR	A56771	532	06024	08/04/2018	B	25.9	I	Sx	75	Pli	25		
02/21/2017	CANFOR	A18154	522	06056	07/22/2018	A	23.3	I	Pli	65	Sx	35		
02/21/2017	CANFOR	A18154	522	06056	07/22/2018	B	3.0	I	Pli	65	Sx	35		
10/26/2013	CANFOR	A18154	921	06067	09/26/2018	B2	12.8	I	At	57	Sx	19	Act	18
03/24/2014	CANFOR	A18154	263	09033	08/09/2018	B2	3.0	I	Sx	100				
02/29/2016	LP	A85946	279	09066	05/31/2018	A	58.9	I	At	93	Act	7		
07/01/2017	CANFOR	A18154	261	09078	08/09/2018	A	5.9	I	Sx	100				
11/01/2015	CANFOR	A18154	440	18027	09/04/2018	A	42.7	I	At	99	Sx	1		
09/29/2017	MPMC	A60972	951	18052	08/06/2018	A	38.1	I	Sx	53	Pli	47		
11/28/2017	MPMC	A60972	949	18053	08/02/2018	A	84.0	I	Sx	100				
08/11/2017	MPMC	A60972	949	18054	08/10/2018	A	63.9	I	Sx	100				
08/11/2017	MPMC	A60972	949	18054	08/10/2018	B	3.7	I	Sx	100				
09/08/2017	MPMC	A60972	952	18055	08/08/2018	A	86.0	I	Sx	51	Pli	49		
01/15/2018	CANFOR	A18154	543	19024	08/01/2018	A	33.2	I	Pli	51	Sx	49		
11/11/2017	CANFOR	A18154	685	19027	07/26/2018	A	23.1	I	Sx	100				
11/11/2017	CANFOR	A18154	685	19027	07/26/2018	B	6.3	I	Sx	100				
11/17/2017	CANFOR	A18154	685	19028	07/31/2018	A	44.5	I	Sx	100				
11/29/2017	CANFOR	A18154	678	19029	07/12/2018	A	114.9	I	Sx	100				
11/10/2016	CANFOR	A18154	600	19031	07/07/2018	A	113.4	I	Pli	100				
01/09/2018	CANFOR	A18154	536	19037	08/08/2018	A	20.1	I	Pli	50	Sx	50		
10/30/2017	CANFOR	A18154	678	19075	07/07/2018	A	34.1	I	Pli	52	Sx	48		
11/29/2016	CANFOR	A18154	600	19078	08/05/2018	A	32.2	I	Pli	100				
11/22/2016	CANFOR	A18154	673	19079	08/06/2018	A	12.7	I	Pli	50	Sx	50		
12/23/2016	CANFOR	A18154	600	19080	08/01/2018	A	48.3	I	Pli	100				
12/06/2016	CANFOR	A18154	600	19081	08/05/2018	A	27.3	I	Pli	100				
03/21/2017	CANFOR	A18154	994	23025	07/20/2018	A	25.7	I	Sx	100				
02/23/2017	CANFOR	A18154	809	23070	07/16/2018	A	88.5	I	Pli	85	Sx	15		
12/11/2017	CANFOR	A18154	683	24037	08/13/2018	A1	44.2	I	Sx	100				
12/11/2017	CANFOR	A18154	683	24037	08/13/2018	B1	13.2	I	Sx	100				

Harvest Start Date	Licensee	Licence	CP	Block ID	Regen Delay Met Date	Stratum Name	Stratum Area (ha)	Layer Type	Sp. 1	% Sp. 1	Sp. 2	% Sp. 2	Sp. 3	% Sp. 3
11/13/2017	CANFOR	A56771	665	24061	07/20/2018	A	56.1	I	Pli	50	Sx	50		
11/29/2017	CANFOR	A56771	666	24062	07/30/2018	A	67.7	I	Pli	50	Sx	50		
11/25/2016	CANFOR	A18154	667	24226	07/08/2018	A	17.1	I	Sx	100				
11/25/2016	CANFOR	A18154	667	24227	07/08/2018	A	6.2	I	Sx	100				
12/14/2017	CANFOR	A18154	671	24285	07/28/2018	A	38.8	I	Sx	77	Pli	23		
12/18/2017	CANFOR	A18154	671	24286	07/29/2018	A	15.8	I	Sx	100				
11/27/2017	CANFOR	A18154	672	24288	07/29/2018	A	16.7	I	Pli	50	Sx	50		
12/29/2017	CANFOR	A18154	683	24310	08/13/2018	A	48.8	I	Sx	70	Pli	30		
09/23/2017	CANFOR	A18154	674	24317	07/27/2018	A	197.3	I	Sx	70	Pli	30		
10/18/2017	LP	A60049	676	24325	07/20/2018	A	158.7	I	Pli	50	Sx	50		
03/10/2017	CANFOR	A18154	450	25061	08/14/2018	A	0.6	I	Sx	100				
03/11/2017	CANFOR	A18154	450	25064	08/14/2018	A	3.6	I	Sx	100				
03/12/2017	CANFOR	A18154	450	25072	08/14/2018	A	3.3	I	Sx	100				
01/19/2017	CANFOR	A18154	445	27063	08/11/2018	a2	5.0	I	Sx	100				
02/24/2017	CANFOR	A18154	451	31003	08/09/2018	A	19.3	I	Sx	100				
02/20/2017	CANFOR	A18154	450	31005	08/13/2018	A	1.7	I	Sx	100				
02/20/2017	CANFOR	A18154	451	31016	08/13/2018	A	17.3	I	Sx	100				
02/20/2017	CANFOR	A18154	451	31017	08/11/2018	A	21.5	I	Sx	100				
02/28/2017	CANFOR	A18154	451	31019	08/13/2018	A	1.7	I	Sx	100				
02/20/2017	CANFOR	A18154	450	31023	08/13/2018	A	2.0	I	Sx	100				
09/29/2015	LP	A60049	743	43057	05/22/2018	A	36.2	I	At	98	Act	2		
09/29/2015	LP	A60049	743	43058	05/16/2018	A	1.9	I	At	91	Act	9		
10/14/2015	LP	A60049	743	43059	05/22/2018	A	4.3	I	At	80	Act	20		
09/24/2015	LP	A60049	743	43060	05/22/2018	A	7.8	I	Act	54	At	46		
09/21/2015	LP	A60049	743	43061	05/22/2018	B	0.3	I	At	57	Act	43		
09/15/2015	LP	A60049	743	43062	05/22/2018	A	9.1	I	At	99	Act	1		
07/01/2017	CANFOR	A18154	278	45067	08/13/2018	A	5.9	I	Pli	52	Sx	48		
12/12/2015	LP	PAG20	APR-92822	S18017	09/04/2018	A	5.5	I	At	100				
02/01/2016	LP	PAG20	APR-92822	S18018	09/05/2018	A	14.7	I	At	98	Sx	2		
11/14/2016	CANFOR	A18154	670	S24049	07/07/2018	A	61.6	I	Pli	50	Sx	50		
11/07/2016	CANFOR	A18154	664	S24050	07/08/2018	A	5.3	I	Sx	100				

Table 53: BCTS establishment delay calculation for reporting period of April 1, 2018 to March 31, 2019

Conifer					
Harvest Start Date	Net Area to be Reforested (NAR)	Cut Block #	TSL	# of days from harvest start through reporting period of March 31, 2019	# Days * NAR
2018-01-31	117.6	20065	A80057	425	49969.37033
2019-01-14	14.6	20089	A80057	77	1120.35
2019-01-14	67.4	20089	A80057	77	5191.34
2019-02-07	2.4	20090	A80057	53	127.73
2018-02-22	25.9	20067	A80058	403	10446.73042
2018-02-22	8.7	20067	A80058	403	3518.491041
2018-02-02	31.5	20068	A80058	423	13323.3046
2018-01-04	39.8	20070	A80058	452	17980.56
2018-01-04	23.9	20070	A80058	452	10816.36
2017-12-18	47.6	24255	A92977	469	22333.78
2017-12-18	22.4	24255	A92977	469	10500.91
2017-11-19	30.3	06040	A92983	498	15104.34
2017-11-19	57.8	06040	A92983	498	28799.34
2017-11-08	47.0	06043	A92983	509	23917.91
2017-11-08	11.4	06043	A92983	509	5792.42
2017-10-16	45.6	45028	A92984	532	24243.24
2018-01-23	66.2	45042	A92985	433	28651.61
2017-08-28	22.9	45050	A93055	581	13287.47
2017-08-28	10.6	45050	A93055	581	6181.84
2017-09-29	35.0	45017	A93384	549	19204.02
2018-01-22	32.8	37043	A93438	434	14230.86
2018-12-03	23.1	05054	A94063	119	2751.28
2018-12-03	22.6	05087	A94063	119	2692.97
2019-01-24	112.8	24253	A94065	67	7560.549407
2018-03-26	7.9	02260	A94070	371	2934.61
2017-12-11	39.1	06038	A94075	476	18616.36
2018-10-19	36.0	24058	A94080	164	5910.56
2018-11-05	14.7	24234	A94080	147	2157.96
2018-10-19	7.0	24271	A94080	164	1141.44
2018-10-04	21.7	24246	A94166	179	3875.35
2018-03-12	38.0	24247	A94166	385	14645.4
2018-10-02	5.5	24260	A94166	181	988.26
2018-10-02	9.4	24260	A94166	181	1699.59
2018-09-25	29.6	24262	A94166	188	5555.4
2018-01-29	16.2	24263	A94166	427	6934.48
2018-01-29	6.7	24263	A94166	427	2869.44
2018-01-05	8.3	24280	A94557	451	3747.81
2018-01-05	8.2	24280	A94557	451	3684.67
2017-12-12	37.6	24298	A94988	475	17850.5

Conifer					
Harvest Start Date	**Net Area to be Reforested (NAR)**	**Cut Block #**	**TSL**	**# of days from harvest start through reporting period of March 31, 2019**	**# Days * NAR**
2018-10-05	49.0	24064	A95043	178	8713.1
2018-10-12	77.4	24067	A95043	171	13241.85628
2018-10-30	20.4	24362	A95043	153	3124.124136
2018-12-07	19.5	19021	A95044	115	2245.95
2018-12-10	41.6	19022	A95044	112	4658.08
2018-11-26	11.0	24193	A95046	126	1383.48
2018-11-28	12.5	24194	A95046	124	1552.48
2018-11-30	8.8	24196	A95046	122	1073.6
2019-02-26	54.5	24357	A95065	34	1852.66
2019-02-05	25.3	38005	A95068	55	1390.442625
2019-02-06	12.8	38006	A95068	54	689.531022
2019-02-21	11.4	38007	A95068	39	444.747888
2019-02-28	8.0	38010	A95068	32	256.561344
2019-02-27	8.1	38011	A95068	33	266.24202
2018-11-06	112.1	09141	A95218	146	16368.06
2019-01-17	90.6	45072	A95220	74	6705.88
2019-01-17	0.4	45072	A95220	74	31.82
2019-01-17	113.6	45074	A95220	74	8404.18
2019-02-12	21.0	45078	A95220	48	1008
2019-02-25	17.8	45079	A95220	35	622.3
2019-03-04	68.7	10052	A95526	28	1923.32
2018-11-05	38.9	24063	A95642	147	5713.89
2018-11-20	18.7	24287	A95642	132	2465.76
2019-03-25	14.1	09124	A95762	7	98.56
2019-03-25	1.2	09124	A95762	7	8.4
2019-03-25	11.6	09124	A95762	7	81.34
2018-12-13	32.4	24238	A95966	109	3532.69
2018-12-21	5.6	24239	A95966	101	565.6
2019-01-03	27.6	24245	A95966	88	2430.711712
2019-01-11	27.9	24273	A95966	80	2228
2018-09-03	31.8	24059	A95967	210	6673.8
2018-09-20	23.9	24272	A95967	193	4606.91
2018-09-20	11.7	24272	A95967	193	2265.82
2018-09-10	6.9	24297	A95967	203	1398.67
2019-03-12	21.5	20071	TA0442	20	429
2019-03-13	37.2	20112	TA0442	19	706.579087
2019-02-06	60.2	20113	TA0442	54	3253.174866
2019-02-06	31.5	20113	TA0442	54	1703.16
2017-12-11	24.3	06038	A94075	476	11571.56
2017-12-12	6.3	20069	A80058	475	2992.5
2017-12-12	18.2	20069	A80058	475	8635.5
2018-04-03	18.4	02277	A94070	363	6661.05

Conifer					
Harvest Start Date	**Net Area to be Reforested (NAR)**	**Cut Block #**	**TSL**	**# of days from harvest start through reporting period of March 31, 2019**	**# Days * NAR**
2018-01-05	13.3	24281	A94557	451	5993.79
2018-01-05	3.4	24281	A94557	451	1542.42
2017-01-06	65.2	03125	A94067	815	53146.15
2016-11-23	37.7	03118	A94068	859	32358.53
2016-11-23	41.3	03118	A94068	859	35433.75
2017-02-23	62.8	03111	A94392	767	48144.59
2017-02-23	84.9	03111	A94392	767	65133.64
2017-10-27	12.0	03123	A94392	521	6267.63
2017-10-27	101.3	03123	A94392	521	52751.25
2017-02-20	21.8	1	A94642	770	16816.8
2017-02-20	5.1	1	A94642	770	3927
Totals	**2,908.8**			**26,590**	**895853.2468**
		Weighted number of days			307.9846477
		Weighted number of years			0.843793555

Deciduous					
Harvest Start Date	**Net Area to be Reforested (NAR)**	**Cut Block #**	**TSL**	**# of days from harvest start through reporting period of March 31, 2019**	**# days * NAR**
2017-10-16	10.0	45028	A92984	532	5314.68
2017-12-11	105.6	06038	A94075	476	50241.8
2017-12-11	6.1	06038	A94075	476	2903.6
2016-01-06	133.7	44046	A85688	1,181	157911.51
2015-01-19	40.2	03072	A82101	1,533	61580.61
2014-11-21	3.2	01280	A90800	1,592	5062.56
2014-11-30	26.0	01281	A90800	1,583	41205.49
2015-01-02	27.5	04141	A90903	1,550	42609.5
2014-03-11	9.8	18063	A90904	1,847	18137.54
2015-03-03	20.0	18034	A90907	1,490	29785.1
2016-02-23	57.3	44057	A92231	1,133	64875.58
2016-02-10	62.6	44061	A92237	1,146	71682.3
2016-02-10	44.4	44061	A92237	1,146	50882.4
2016-01-24	20.5	04066	A92970	1,163	23818.24
2016-01-24	3.2	04068	A92970	1,163	3721.6
2016-01-21	3.8	04165	A92971	1,166	4372.5
2016-01-12	5.4	04190	A92971	1,175	6356.75
2016-12-15	51.0	24205	A92976	837	42712.11
2017-02-08	6.2	24355	A92976	782	4864.04
2016-10-17	104.8	45039	A93052	896	93918.72
2016-10-17	12.7	45039	A93052	896	11388.16

Deciduous					
Harvest Start Date	**Net Area to be Reforested (NAR)**	**Cut Block #**	**TSL**	**# of days from harvest start through reporting period of March 31, 2019**	**# days * NAR**
2016-09-15	87.3	06090	A93058	928	81023.68
2017-02-27	19.5	27004	A94642	763	14909.02
2017-02-20	19.6	1	A94642	770	15122.8
Totals	**880.4**			**26,224.0**	**904,400.3**
		Weighted number of days			1027.319009
		Weighted number of years			2.814572629

Mixedwood					
Harvest Start Date	**Net Area to be Reforested (NAR)**	**Cut Block #**	**TSL**	**# of days from harvest start through reporting period of March 31, 2019**	**# days * NAR**
2013-11-27	23	02261	A89120	1,951	44287.7
2016-02-08	10.6	03070	A76786	1,148	12168.8
Totals	**33.6**			**1,588**	**35,980**
		Weighted number of days			1588
		Weighted number of years			4.3

Table 54: Licensee Participants Conifer Establishment Delay Calculation For Reporting Period of April 1, 2018 to March 31, 2019

License	Permit	Cut Block	SU ID	Current Declaration	Harvest Start Date	SU NAR	Regen Met	Regen Days
A18154	121	02001	A	C	07/29/2002	21.8	N	132740.2
A18154	169	04028	B	C	12/18/2012	5.4	N	12387.6
A18154	261	09034	A	C	01/16/2018	45.1	N	19798.9
A18154	261	09034	B	C	01/16/2018	32.4	N	14223.6
A18154	263	09033	A	C	03/24/2014	119.1	N	218310.3
A18154	263	09033	B	C	03/24/2014	43.8	N	80285.4
A18154	280	09070	A	C	01/07/2018	8.2	N	3673.6
A18154	287	09113	A	C	09/10/2018	63.5	N	12827.0
A18154	288	09126	A	C	09/07/2018	44.8	N	9184.0
A18154	288	09132	A	C	09/21/2018	60.6	N	11574.6
A18154	289	09115	A	C	10/10/2018	27.1	N	4661.2
A18154	289	09115	B	C	10/10/2018	16.6	N	2855.2
A18154	291	45090	A	C	02/15/2019	67.2	N	2956.8
A18154	291	45090	B	C	02/15/2019	5.9	N	259.6
A18154	368	05155	A	C	04/14/2018	25.0	N	8775.0
A18154	368	10028	A	C	04/23/2018	56.4	N	19288.8
A18154	368	10029	A	C	01/10/2019	22.4	N	1792.0
A18154	369	10025	A	C	02/17/2018	72.8	N	29629.6
A18154	370	10051	A	C	03/12/2019	16.4	N	311.6
A18154	424	01318	A	C	02/09/2017	13.6	N	10608.0
A18154	424	01331	A	C	02/01/2017	2.8	N	2206.4
A18154	443	01319	A	C	12/01/2016	27.9	N	23715.0
A18154	443	01320	A	C	01/11/2017	26.1	N	21114.9
A18154	443	01322	A	C	01/11/2017	16.4	N	13267.6
A18154	444	01330	A	C	02/20/2017	2.5	N	1922.5
A18154	444	01332	A	C	02/23/2017	3.9	N	2987.4
A18154	444	27035	B	C	01/10/2017	18.0	N	14580.0
A18154	447	01138	A	C	02/12/2018	33.3	N	13719.6
A18154	454	02274	A	C	03/03/2018	8.5	N	3340.5
A18154	454	02275	A	C	03/28/2018	64.2	N	23625.6
A18154	461	01300	A	C	08/28/2018	51.2	N	11008.0
A18154	465	14022	A	C	02/14/2019	29.9	N	1345.5
A18154	465	14024	A	C	01/22/2019	129.6	N	8812.8
A18154	502	04127	A	C	07/01/2017	43.3	N	27625.4
A18154	507	06076	A	C	03/06/2018	3.0	N	1170.0
A18154	507	06085	A	C	03/06/2018	38.7	N	15093.0
A18154	533	05143	A	C	04/13/2018	20.1	N	7075.2
A18154	533	05144	A	C	04/17/2018	15.6	N	5428.8
A18154	533	05145	A	C	04/11/2018	17.1	N	6053.4
A18154	533	09023	A	C	02/12/2018	33.9	N	13966.8
A18154	533	09023	B	C	02/12/2018	15.2	N	6262.4
A18154	536	19100	A	C	01/17/2018	6.7	N	2934.6
A18154	537	24303	A	C	02/01/2019	142.2	N	8247.6

License	Permit	Cut Block	SU ID	Current Declaration	Harvest Start Date	SU NAR	Regen Met	Regen Days
A18154	538	04260	A	C	03/28/2018	23.7	N	8721.6
A18154	539	01305	A	C	02/16/2018	80.9	N	33007.2
A18154	539	01305	B	C	02/16/2018	22.7	N	9261.6
A18154	539	23046	A	C	02/02/2018	61.9	N	26121.8
A18154	543	19039	A	C	06/13/2018	98.7	N	28721.7
A18154	545	04265	A	C	03/14/2018	30.9	N	11803.8
A18154	549	06117	A	C	08/14/2018	36.7	N	8404.3
A18154	549	06117	B	C	08/14/2018	11.9	N	2725.1
A18154	549	06127	B	C	08/02/2018	9.4	N	2265.4
A18154	549	06128	A	C	07/25/2018	11.6	N	2888.4
A18154	550	10038	A	C	01/01/2019	45.9	N	4085.1
A18154	550	10038	B	C	01/01/2019	12.2	N	1085.8
A18154	550	10050	A	C	11/05/2018	58.4	N	8526.4
A18154	550	10050	B	C	11/05/2018	5.8	N	846.8
A18154	551	07052	A	C	11/12/2018	50.3	N	6991.7
A18154	554	05081	A	C	10/22/2018	130.3	N	20848.0
A18154	555	05045	A	C	10/01/2018	39.1	N	7077.1
A18154	556	05047	A	C	10/11/2018	97.4	N	16655.4
A18154	558	05089	A	C	12/18/2018	247.3	N	25471.9
A18154	562	05134	A	C	01/09/2019	11.4	N	923.4
A18154	562	05137	A	C	01/03/2019	28.7	N	2496.9
A18154	565	05109	A	C	01/28/2019	46.6	N	2889.2
A18154	565	05109	B	C	01/28/2019	9.9	N	613.8
A18154	565	05127	A	C	03/02/2019	30.2	N	875.8
A18154	572	05090	A	C	02/21/2019	32.3	N	1227.4
A18154	572	05090	B	C	02/21/2019	7.2	N	273.6
A18154	631	08005	D	C	03/01/2002	3.1	N	19340.9
A18154	663	24282	A	C	12/08/2015	34.2	N	41347.8
A18154	663	24282	B	C	12/08/2015	31.0	N	37479.0
A18154	678	19036	A	C	01/03/2018	2.0	N	904.0
A18154	678	19036	B	C	01/03/2018	4.6	N	2079.2
A18154	679	07084	A	C	10/18/2018	38.0	N	6232.0
A18154	679	07085	A	C	11/02/2018	14.6	N	2175.4
A18154	681	24311	A	C	12/18/2018	18.5	N	1905.5
A18154	683	24037	A	C	12/11/2017	54.3	N	25792.5
A18154	683	24037	B	C	12/11/2017	39.9	N	18952.5
A18154	687	07089	A	C	11/14/2018	28.7	N	3931.9
A18154	687	07100	A	C	01/09/2019	5.5	N	445.5
A18154	687	07101	A	C	01/04/2019	28.5	N	2451.0
A18154	687	07139	A	C	01/03/2019	3.9	N	339.3
A18154	688	07086	A	C	11/01/2018	28.0	N	4200.0
A18154	688	07136	A	C	12/03/2018	2.9	N	342.2
A18154	688	07140	A	C	01/18/2019	9.9	N	712.8
A18154	690	08047	A	C	01/04/2019	204.2	N	17561.2
A18154	690	08050	A	C	01/21/2019	101.5	N	7003.5
A18154	690	08050	B	C	01/21/2019	14.5	N	1000.5

License	Permit	Cut Block	SU ID	Current Declaration	Harvest Start Date	SU NAR	Regen Met	Regen Days
A18154	692	07047	A	C	11/28/2018	41.9	N	5153.7
A18154	692	07055	A	C	12/06/2018	97.0	N	11155.0
A18154	692	07135	A	C	11/10/2018	41.8	N	5893.8
A18154	722	01021	A	C	03/28/2012	125.0	N	319875.0
A18154	795	01009	A	C	02/26/2017	16.0	N	12208.0
A18154	795	01011	A	C	03/01/2017	6.8	N	5168.0
A18154	795	01012	A	C	03/02/2017	6.5	N	4933.5
A18154	966	04137	A	C	10/15/2016	94.9	N	85125.3
A56771	399	10023	A	C	03/20/2019	113.3	N	1246.3
A56771	453	01259	A	C	01/29/2018	39.3	N	16741.8
A56771	455	01268	B	C	02/26/2018	43.0	N	17114.0
A56771	456	29109	A	C	02/22/2018	84.0	N	33768.0
A56771	534	23115	A	C	01/31/2018	14.3	N	6063.2
A56771	544	04278	A	C	03/20/2018	49.6	N	18649.6
A56771	559	05084	A	C	12/11/2018	4.3	N	473.0
A56771	560	05036	A	C	12/19/2018	3.6	N	367.2
A56771	561	05035	A	C	12/10/2018	34.1	N	3785.1
A56771	666	24065	A	C	12/18/2017	14.1	N	6598.8
A56771	666	24066	A	C	01/04/2018	9.7	N	4374.7
A56771	983	04076	A	C	11/06/2016	5.0	N	4375.0
A56771	983	04076	B	C	11/06/2016	8.0	N	7000.0
A56771	983	04241	A	C	09/20/2017	4.3	N	2395.1
A56771	983	04241	B	C	09/20/2017	12.2	N	6795.4
A56771	985	04084	A	C	11/21/2016	16.8	N	14448.0
A56771	985	04084	B	C	11/21/2016	4.5	N	3870.0
A56771	987	04070	A	C	09/28/2016	43.4	N	39667.6
A56771	987	04070	B	C	09/28/2016	4.1	N	3747.4
A56771	987	04071	A	C	10/20/2016	46.6	N	41567.2
A60049	234	S09036	B	C	11/07/2007	3.0	N	12486.0
A60049	259	45035	C	C	01/30/2014	136.7	N	257816.2
A60049	300	S04032	C	C	12/06/2006	17.8	N	80064.4
A60049	704	01022	B	C	01/07/2008	24.8	N	101704.8
A60050	226	S05008	B	C	12/07/2005	6.7	N	32575.4
A60050	367	S10035	B	C	04/02/2007	9.3	N	40743.3
A60050	702	05001	C	C	07/09/2007	32.9	N	140910.7
A60972	428	42003	A	C	02/07/2007	21.4	N	94909.0
A60972	428	42003	B	C	02/07/2007	24.4	N	108214.0
A60972	463	14021	A	C	12/19/2018	64.4	N	6568.8
A60972	471	14023	A	C	02/27/2019	15.4	N	492.8
A60972	529	02147	A	C	02/19/2018	14.8	N	5994.0
A60972	552	01312	A	C	09/12/2018	87.5	N	17500.0
A60972	627	07001	G	C	02/20/2003	17.4	N	102364.2
A60972	689	07088	A	C	11/10/2018	19.3	N	2721.3
A60972	951	18052	B	C	09/29/2017	3.8	N	2082.4
A60972	951	18056	A	C	01/26/2018	39.2	N	16816.8
A60972	951	18057	A	C	12/18/2017	99.8	N	46706.4

License	Permit	Cut Block	SU ID	Current Declaration	Harvest Start Date	SU NAR	Regen Met	Regen Days
A85946	283	44047	B	C	10/16/2017	29.5	N	15664.5
A85946	448	01233	B	C	03/20/2018	4.8	N	1804.8
A85946	449	01235	B	C	11/16/2017	25.4	N	12700.0
A85946	452	01260	B	C	02/01/2018	25.9	N	10955.7
PAG12	APR-81872	S02030	B	C	07/26/2007	10.9	N	46499.4
PAG12	APR-83319	25001	B	C	12/21/2007	1.9	N	7824.2
PAG12	APR-91509	01117	B	C	08/02/2014	19.2	N	32678.4
PAG12	APR-91759	02292	B	C	12/20/2013	16.7	N	32180.9
PAG12	APR-95196	05123	B	C	04/19/2018	19.0	N	6574.0
PAG12	APR-96042	02309	B	C	04/10/2018	69.4	N	24637.0
PAG12	APR-96227	01325	B	C	08/27/2018	12.9	N	2786.4
PAG12	APR-96292	07138	A	C	11/09/2018	3.2	N	454.4

Table 55: Licensee Participants Deciduous Establishment Delay Calculation For Reporting Period of April 1, 2018 to March 31, 2019

License	Permit	Cut Block	SU ID	Current Declaration	Harvest Start Date	SU NAR	Regen Met	Regen Days
A18154	269	09086	A	D	03/07/2018	49.3	N	19177.7
A18154	287	09113	B	D	09/10/2018	27.4	N	5534.8
A18154	288	09126	B	D	09/07/2018	52.4	N	10742.0
A18154	288	09132	B	D	09/21/2018	6.7	N	1279.7
A18154	288	09132	C	D	09/21/2018	22.4	N	4278.4
A18154	401	27033	A	D	11/11/2014	14.3	N	22894.3
A18154	424	27050	A	D	01/19/2017	2.8	N	2242.8
A18154	424	27051	A	D	01/19/2017	1.4	N	1121.4
A18154	424	27052	A	D	01/19/2017	2.0	N	1602.0
A18154	424	27053	A	D	02/20/2017	1.1	N	845.9
A18154	424	27054	A	D	02/20/2017	5.0	N	3845.0
A18154	424	27055	A	D	02/10/2017	5.2	N	4050.8
A18154	424	27065	A	D	03/01/2017	0.6	N	456.0
A18154	424	27066	A	D	01/24/2017	5.1	N	4059.6
A18154	426	03092	B	D	07/11/2017	6.5	N	4082.0
A18154	444	27034	A	D	12/16/2016	215.0	N	179525.0
A18154	444	27035	A	D	01/10/2017	65.5	N	53055.0
A18154	444	27036	A	D	01/26/2017	62.4	N	49545.6
A18154	444	27046	A	D	11/30/2016	131.0	N	111481.0
A18154	444	27048	A	D	01/26/2017	25.3	N	20088.2
A18154	445	01321	A	D	01/11/2017	12.7	N	10274.3
A18154	445	01334	A	D	01/19/2017	2.9	N	2322.9
A18154	445	27061	A	D	11/15/2016	26.7	N	23122.2
A18154	445	27068	A	D	01/26/2017	17.1	N	13577.4
A18154	450	25066	A	D	03/15/2017	10.4	N	7758.4
A18154	454	02274	B	D	03/03/2018	1.3	N	510.9
A18154	530	04211	A	D	01/20/2018	156.7	N	68164.5
A18154	538	04260	B	D	03/28/2018	69.2	N	25465.6
A18154	546	02177	A	D	04/05/2018	88.8	N	31968.0
A18154	549	06127	A	D	08/02/2018	20.5	N	4940.5
A18154	549	06128	B	D	07/25/2018	7.0	N	1743.0
A18154	555	05045	B	D	10/01/2018	11.5	N	2081.5
A18154	678	19036	C	D	01/03/2018	3.2	N	1446.4
A18154	921	06067	B	D	10/26/2013	74.8	N	148253.6
A18154	929	25037	A	D	11/11/2013	202.2	N	397525.2
A18154	932	24209	A	D	10/09/2014	93.9	N	153432.6
A18154	934	06027	A	D	06/18/2014	98.4	N	171904.8
A18154	965	02256	B	D	08/29/2017	21.8	N	12622.2
A56771	453	01257	B	D	01/14/2018	26.3	N	11598.3
A56771	559	05084	B	D	12/11/2018	2.4	N	264.0
A56771	560	05036	B	D	12/19/2018	7.0	N	714.0
A60049	204	45048	A	D	02/15/2014	241.2	N	451044.0
A60049	259	45035	A	D	01/30/2014	277.7	N	523742.2

License	Permit	Cut Block	SU ID	Current Declaration	Harvest Start Date	SU NAR	Regen Met	Regen Days
A60049	267	44068	A	D	03/01/2017	41.5	N	31540.0
A60049	270	44048	A	D	07/25/2018	16.4	N	4083.6
A60049	270	44048	B	D	07/25/2018	5.3	N	1319.7
A60049	285	45043	A	D	03/12/2019	353.3	N	6712.7
A60049	423	02188	A	D	09/11/2017	15.1	N	8546.6
A60049	505	04092	A	D	03/20/2019	18.8	N	206.8
A60049	566	05103	A	D	02/19/2019	39.5	N	1580.0
A60049	660	S24028	A	D	11/18/2015	44.5	N	54690.5
A60049	677	19098	A	D	11/18/2016	14.2	N	12254.6
A60049	718	43054	A	D	02/06/2018	16.7	N	6980.6
A60049	736	43053	A	D	01/01/2018	6.3	N	2860.2
A60049	736	43055	A	D	01/09/2018	160.9	N	71761.4
A60049	736	43056	A	D	12/13/2017	59.2	N	28001.6
A60049	741	43076	A	D	02/23/2015	12.2	N	18263.4
A60049	741	43077	A	D	02/23/2015	115.2	N	172454.4
A60049	743	43058	A	D	09/29/2015	1.9	N	2430.1
A60049	743	43062	A	D	09/15/2015	9.1	N	11766.3
A60049	794	05025	A	D	02/15/2013	215.9	N	482536.5
A60049	808	23034	A	D	03/23/2018	1.5	N	559.5
A60049	925	01167	A	D	08/03/2015	23.3	N	31128.8
A60049	940	05052	A	D	03/15/2015	25.6	N	37811.2
A60049	940	05055	A	D	03/07/2015	31.4	N	46629.0
A60049	942	06062	A	D	10/16/2017	83.0	N	44073.0
A60049	942	06062	B	D	10/16/2017	44.0	N	23364.0
A60049	944	06073	A	D	11/15/2017	22.6	N	11322.6
A60049	944	06073	B	D	11/15/2017	20.2	N	10120.2
A60049	958	04171	A	D	11/21/2015	10.2	N	12505.2
A60049	982	02163	A	D	07/08/2016	133.6	N	133065.6
A60049	982	02233	A	D	04/16/2018	19.0	N	6631.0
A60049	996	23089	A	D	02/22/2018	2.6	N	1045.2
A60049	996	23091	A	D	02/23/2018	7.0	N	2807.0
A60049	996	23092	A	D	02/20/2018	6.0	N	2424.0
A60049	998	02174	A	D	07/02/2018	24.3	N	6609.6
A60050	227	S05012	B	D	11/01/2005	87.0	N	426126.0
A60972	446	27043	A	D	03/15/2017	11.4	N	8504.4
A60972	446	27045	A	D	03/15/2017	4.1	N	3058.6
A60972	446	27047	A	D	01/27/2017	156.5	N	124104.5
A60972	446	27056	A	D	02/21/2017	6.5	N	4992.0
A60972	446	27064	A	D	02/17/2017	3.4	N	2624.8
A60972	446	27067	A	D	01/24/2017	9.4	N	7482.4
A60972	446	27071	A	D	11/15/2016	47.0	N	40702.0
A60972	529	02147	B	D	02/19/2018	8.3	N	3361.5
A60972	952	18055	B	D	09/08/2017	70.1	N	39886.9
A85946	256	09088	A	D	01/20/2014	30.0	N	56880.0
A85946	256	09088	B	D	01/20/2014	6.8	N	12892.8
A85946	260	09076	A	D	10/03/2014	41.2	N	67568.0

License	Permit	Cut Block	SU ID	Current Declaration	Harvest Start Date	SU NAR	Regen Met	Regen Days
A85946	264	44053	A	D	02/16/2015	56.2	N	84524.8
A85946	264	44053	B	D	02/16/2015	69.5	N	104528.0
A85946	264	44054	A	D	01/10/2017	123.7	N	100197.0
A85946	264	44054	B	D	01/10/2017	46.0	N	37260.0
A85946	264	44062	A	D	04/01/2015	76.3	N	111398.0
A85946	282	44050	B	D	02/01/2018	31.2	N	13197.6
A85946	283	44047	A	D	10/16/2017	59.7	N	31700.7
A85946	283	44064	A	D	02/02/2018	121.6	N	51315.2
A85946	283	45044	A	D	11/15/2017	218.7	N	109568.7
A85946	283	45054	A	D	11/02/2017	59.8	N	30737.2
A85946	284	45045	A	D	08/02/2018	75.8	N	18267.8
A85946	448	01192	A	D	03/06/2018	24.4	N	9516.0
A85946	448	01228	A	D	07/26/2018	19.0	N	4712.0
A85946	448	01228	B	D	07/26/2018	15.6	N	3868.8
A85946	448	01231	A	D	07/27/2017	16.9	N	10342.8
A85946	448	01232	A	D	03/20/2018	13.2	N	4963.2
A85946	448	01233	A	D	03/20/2018	9.7	N	3647.2
A85946	448	01238	A	D	06/19/2017	47.9	N	31135.0
A85946	448	01245	A	D	03/24/2018	16.7	N	6212.4
A85946	449	01235	A	D	11/16/2017	88.8	N	44400.0
A85946	449	01248	A	D	03/08/2017	55.2	N	41565.6
A85946	452	01252	A	D	10/05/2018	49.0	N	8673.0
A85946	452	01254	A	D	10/05/2018	2.5	N	442.5
A85946	452	01260	A	D	02/01/2018	33.8	N	14297.4
A85946	500	06092	A	D	10/01/2016	120.3	N	109593.3
A85946	501	06108	A	D	03/21/2019	89.4	N	894.0
A85946	501	06108	B	D	03/21/2019	30.6	N	306.0
A85946	503	04078	A	D	12/07/2017	6.8	N	3257.2
A85946	503	04080	A	D	12/03/2016	90.8	N	76998.4
A85946	503	04082	A	D	01/23/2017	13.3	N	10600.1
A85946	503	04083	A	D	01/24/2017	39.8	N	31680.8
A85946	735	04222	B	D	10/07/2014	24.9	N	40736.4
A85946	943	06044	A	D	10/04/2016	164.0	N	148912.0
A85946	943	06044	B	D	10/04/2016	166.6	N	151272.8
A85946	972	04099	A	D	09/02/2015	193.9	N	253233.4
A85946	972	04100	A	D	09/15/2015	36.1	N	46677.3
A85946	972	04103	A	D	07/27/2017	161.9	N	99082.8
A85946	972	04103	B	D	07/27/2017	11.9	N	7282.8
A85946	978	01230	A	D	11/09/2017	22.8	N	11559.6
A85946	991	04097	A	D	11/13/2018	230.9	N	31864.2
A85946	992	06035	A	D	07/15/2016	440.1	N	435258.9
A85946	992	06035	B	D	07/15/2016	52.5	N	51922.5
A85946	992	06037	A	D	04/03/2017	101.3	N	73645.1
A85946	993	06045	A	D	12/14/2017	20.1	N	9487.2
A85946	995	04177	B	D	08/22/2017	15.9	N	9317.4
A85946	995	04185	A	D	11/24/2017	24.5	N	12054.0

License	Permit	Cut Block	SU ID	Current Declaration	Harvest Start Date	SU NAR	Regen Met	Regen Days
PAG12	APR-84876	S25011	A	D	10/29/2008	58.3	N	221831.5
PAG12	APR-91509	01117	A	D	08/02/2014	53.8	N	91567.6
PAG12	APR-92112	03096	A	D	08/22/2016	3.8	N	3613.8
PAG12	APR-92112	03129	A	D	08/22/2016	5.2	N	4945.2
PAG12	APR-92458	43067	A	D	03/14/2018	35.2	N	13446.4
PAG12	APR-92458	43068	A	D	03/14/2018	44.8	N	17113.6
PAG12	APR-92458	43069	A	D	03/19/2018	8.6	N	3242.2
PAG12	APR-92458	43070	A	D	08/01/2016	56.7	N	55112.4
PAG12	APR-95141	25040	A	D	03/16/2017	19.6	N	14602.0
PAG12	APR-95141	25065	A	D	03/13/2017	20.7	N	15483.6
PAG12	APR-95184	02149	A	D	03/09/2018	21.7	N	8397.9
PAG12	APR-95184	02157	A	D	02/28/2018	9.4	N	3722.4
PAG12	APR-95196	05123	A	D	04/19/2018	23.2	N	8027.2
PAG12	APR-95317	01119	A	D	02/27/2018	46.4	N	18420.8
PAG12	APR-95317	01188	A	D	08/12/2018	65.6	N	15153.6
PAG12	APR-96042	02309	A	D	04/10/2018	69.3	N	24601.5
PAG12	APR-96053	01270	A	D	03/19/2018	3.1	N	1168.7
PAG12	APR-96090	43051	A	D	10/10/2018	32.6	N	5607.2
PAG12	APR-96227	01325	A	D	08/27/2018	112.8	N	24364.8
PAG12	APR-96392	05044	A	D	10/25/2018	2.0	N	314.0
PAG12	APR-96392	05046	A	D	11/13/2018	19.6	N	2704.8
PAG20	APR-94108	S24051	A	D	11/07/2016	11.7	N	10225.8

Table 56: Licensee Participants Mixedwood Establishment Delay Calculation For Reporting Period of April 1, 2018 to March 31, 2019

License	Permit	Cut Block	SU ID	Current Declaration	Harvest Start Date	SU NAR	Regen Met	Regen Days
A18154	266	44063	A	CD	10/29/2015	164.5	N	205460.5
A18154	276	45037	A	CD	04/30/2017	42.2	N	29540.0
A18154	276	45038	A	CD	12/19/2016	35.9	N	29868.8
A18154	370	10039	A	CD	03/19/2019	21.0	N	252.0
A18154	413	02170	A	CD	02/10/2017	29.5	N	22980.5
A18154	414	02241	A	CD	04/16/2018	10.0	N	3490.0
A18154	426	03092	A	CD	07/11/2017	34.6	N	21728.8
A18154	504	04151	A	CD	03/21/2017	35.0	N	25900.0
A18154	507	06077	A	CD	03/07/2018	13.2	N	5134.8
A18154	901	02086	B	CD	08/16/2010	19.8	N	62350.2
A56771	277	45065	A	CD	04/03/2017	15.6	N	11341.2
A56771	453	01257	A	CD	01/14/2018	36.0	N	15876.0
A56771	455	01268	A	CD	02/26/2018	86.3	N	34347.4
A60049	270	45047	A	DC	08/10/2016	285.9	N	275321.7
A60049	808	23090	A	DC	02/26/2018	5.3	N	2109.4
A60049	980	01210	A	DC	08/09/2015	81.5	N	108395.0
A60049	982	02229	A	DC	03/28/2018	42.6	N	15676.8
A60049	982	02231	A	DC	06/01/2018	40.6	N	12301.8
A60049	982	02242	A	DC	08/14/2018	37.0	N	8473.0
A60049	996	23094	A	DC	02/20/2018	14.5	N	5858.0
A60049	996	23108	A	DC	04/03/2017	122.6	N	89130.2
A60049	998	02148	A	DC	03/24/2017	27.9	N	20562.3
A85946	279	09069	A	CD	01/20/2018	116.8	N	50808.0
A85946	282	44050	A	DC	02/01/2018	30.3	N	12816.9
A85946	449	01216	A	DC	03/06/2019	181.2	N	4530.0
A85946	995	04177	A	DC	08/22/2017	17.8	N	10430.8
A85946	995	04188	A	DC	11/15/2017	19.9	N	9969.9
PAG12	APR-91509	01118	A	DC	03/08/2015	71.3	N	105809.2
PAG12	APR-95317	01187	A	DC	08/12/2018	40.0	N	9240.0

Appendix 5: Compliance

Table 57: Licensee Participant Contraventions Reported to Agencies - April 1, 2018 - March 31, 2019

Incident ID	Occurrence Date	Tenure	Location	Date Reported	Agency	Status	Issue Description
ITS-FSJO-2018-2234	October 01, 2018	PAG12	Jedney Operating Area	October 01, 2018	MFLNRO RD	Closed	**Harvest Outside of Authorized Area** A contractor feller buncher operator was cutting along an authorized Road Permit right-of-way towards an authorized block. The right-of-way passes through two blocks that were not yet authorized (but laid out and applied for). The operator was made aware of this, and was supposed to be using the Avenza phone/tablet application to support navigation. They came to a boundary of block 05046 (not authorized) at the 3.5 km mark of the road R/W and started felling block boundary, rather than continuing on to the 3.8 km mark and cutting in 05045 (authorized). It is estimated that 300m of boundary was felled. C&E completed inspection 12-07-2018 and issued report with "no further action" to be taken.
ITS-FSJO-2019-2343	October 19, 2018	PAG12	Aitken Creek Operating Area	July 22, 2019	MFLNRO RD	Closed	As a result of a field inspection by MFLNRORD it was determined that Canfor had not marked the CTL (Cut to Length) decks as per regulations. Contractor moved away Oct 10 to avoid rain and poor road conditions. MFLNRORD inspection was Oct 19, 2018. There were no active operations due to poor weather at the time. Canfor received the letter notification Nov 16, 2018. Ministry reported as a warning with no further actions to be taken.

Table 58: BCTS Contraventions Reported to Agencies - April 1, 2018 - March 31, 2019

Incident ID	Occurrence Date	Tenure	Location	Date Reported	Agency	Status	Issue Description
ITS-BCTS Peace Liard Business Area-2018-0281	April 12, 2018	A80058	Cypress Creek Operating Road Permit 20873	June 6, 2018	C&E	Closed	During a BCTS staff inspection of seasonal road deactivation on road permit R20873 it was discovered that there was an issue with the S3 stream at the crossing with Rd A80058-27001-A. It was determined that improper construction and location of cross ditches allowed surface runoff down the road to potentially allow detritus material into the S3 stream.. Immediate remediation work was considered impossible because the road is heavy machine accessible only in winter. BCTS staff reported the incident through the RAPP (Report All Poachers and Polluters) website. A subsequent visit by C&E and BCTS staff on July 8, 2018 further determined that the removal of the stream crossing had resulted in machine traffic that damaged the stream bank. C&E enforcement action was taken by way of ticket violations sent to both the holder of the road permit as well as the company that had completed the road deactivation.

Appendix 6: Acronym Listing & Definitions

Table 59: Acroymn Listing and Definitions

Acronym	Definition
AAC	Annual Allowable Cut
AIA	Archaeological Impact Assessments
AOA	Archaeological Overview Assessments
AOP	Areas Of (archaeological) Potential
ATV	All-Terrain Vehicle
BCTS	British Columbia Timber Sales
BEC	Biogeoclimatic Ecosystem Classification
BPU	Boreal Plains Uplands Natural Disturbance Unit
BRFN	Blueberry River First Nations
CANFOR	Canadian Forest Products Ltd.
CCFM	Canadian Council of Forest Ministers
CCRES	Clear Cut with Reserves
CFLB	Crown Forested Land Base
CMI	Change Monitoring Inventory
COFI	Council of Forest Industries
CRL	Cameron River Logging
CSA	Canadian Standards Association
CTL	Cut To Length
CWD	Coarse Woody Debris
DBH (dbh)	Diameter at Breast Height
DFA	Defined Forest Area
DRFN	Doig River First Nation
DTFN	Dene Tha First Nation
EA	Effective Age
FIT	Forester-In-Training
FOS	Forest Operations Schedule
FPC	Forest Practices Code
FRPA	Forest & Range Practices Act
FSJ	Fort St. John
FSJPPR	Fort St. John Pilot Project Regulation
GIS	geographic information system
GRIMP	Graham Resource Integrated Management Plan
HLFN	Horse Lake First Nation

Acronym	Definition
HRFN	Halfway River First Nation
IRM	Integrated Resource Management
ITS	Incident Tracking Systems
LLS	Landscape Level Strategies
LRDW	Land Resource Data Warehouse
LRMP	Land and Resource Management Plan
LTHL	Long Term Harvest Level
MFLNRORD	Ministry of Forests, Lands, Natural resource Operations and Rural Development
MKMA	Muskwa-Kechika Management Area
MOE	Ministry of Environment and Climate Change Strategy
MPB	Mountain Pine Beetle
MPMC	Mackenzie Pulpmill corp
MSQ	Mean Stocked Quadrant
NAR	Net Area to be Reforested
NBM	Northern Boreal Mountains Natural Disturbance Unit
NDU	Natural Disturbance Unit
NHLB	Non-Timber Harvesting Land Base
NIT	Notice Of Intent To Treat
OSB	Oriented Strand Board
PAG	Public Advisory Group
PAS	Permanent Access Structures
PFI	Peak Flow Index
PMP	Pest Management Plan
PMV	Predicted Merchantable Volume
POC	Point of Commencement
POT	Point of Termination
PRFN	Prophet River First Nation
PVOSB	Peace Valley OSB
RAPP	Report All Poachers and Polluters
RESULTS	Reporting Silviculture Updates and Land Status Tracking System
RMZ	Resource Management Zone
ROS	Recreation Opportunity Spectrum
RPF	Registered Professional Forester
RRZ	Riparian Reserve Zone

Acronym	Definition
SFM	Sustainable Forest Management
SFMP	Sustainable Forest Management Plan
SFN	Saulteau First Nations
SI	Site Index
SLMG	Stand Level Management Guidelines
SLP	Site Level Plan
SMZ	Special Management Zone
SPH (sph)	Stems per Hectare
SUP	Special Use Permit
TASS	Tree and Stand Simulator
TFT	Trainee Forest Technologists
THLB	Timber Harvesting Land Base
TMV	Target Merchantable Volume
TOR	Terms Of Reference
TRAP	Timber and Range Action Plan
TRIMC	Timber and Range Impact Mitigation Committee
TSA	Timber Supply Area
TSL	Timber Supply License
TSR	Timber Supply Review
TSS	Target Stocking Standard
UWR	Ungulate Winter Ranges
VQO	Visual Quality Objective
VRI	Vegetation Resources Inventory
WHA	Wildlife Habitat Areas
WMFN	West Moberly First Natio
WQCR	Water Quality Concern Rating
WTP	Wildlife Tree Patch

Appendix 7: Contact Information

For More Information regarding this report please contact:

BCTS
Stephanie Smith, Operations Manager, RPF

Mailing Address:
9000 -17th Street
Dawson Creek, BC
V1G 4A4

Telephone: 250 784-1209

Email: Stephanie.Smith@gov.bc.ca

Canfor
Darrell Regimbald, Certification Specialist, RPF

Mailing Address:
RR#1, Site 13, Compartment 2
Fort St John, BC
V1J 4M6

Telephone: 250 787-3651

Email: Darrell.Regimbald@canfor.com

A copy of this report can be found at the Fort St John Pilot Project website:

http://www.fsjpilotproject.com/