

## **Appendix 1: SFM Plan Background**

Appendix 1, with all the sub-appendices, provides support documents for SFM in the DFA.

### **Appendix 1.1: Maps**

This appendix contains maps for the DFA area, supporting SFM.

1. Fort Nelson Defined Forest Area
2. Fort Nelson: THLB/NHLB
3. Fort Nelson TSA Visual Quality Objectives
4. Canfor Fort Nelson Input Covers: Landscape Units
5. Canfor Fort Nelson Input Covers: Protected Area Strategies
6. Canfor Fort Nelson Input Covers: Vegetation Resource Inventory
7. Biogeoclimatic Zones

### **Appendix 1.2: Inventory & Stakeholder Analysis**

This appendix contains the Inventory & Stakeholder Analysis completed for the DFA. Names and personal information of the stakeholder analysis have not been included in the appendix to ensure privacy. All information is maintained by Canfor.

1. Inventory and Stakeholder Analysis Report (Stakeholder analysis report spreadsheet February 2011)
2. Inventory and Information Data (Same data as 2004 report)

### **Appendix 1.3: Practices Analysis**

This appendix provides the resulting Practices Matrix for the DFA.

1. Canfor Practices Analysis
2. BCTS Practices Matrix
3. Canfor 2006 Forest Stewardship Plan
4. BCTS 2008 Forest Stewardship Plan

### **Appendix 1.4: Data / Knowledge Gaps Matrix**

This appendix is a summary table listing the knowledge/information gaps (beyond data gaps) to support the Criteria & Indicators for the DFA.

1. 2011 Knowledge gap matrix

### **Appendix 1.5: SFM Criteria & Elements Matrix**

This appendix is the set of matrices that list the localized Criteria & Elements for the DFA. The matrices include a listing of the criteria, Elements, Indicators and targets.

1. Criteria, element, indicator and target matrix

### **Appendix 1.6: Responsibility Action Matrix**

This appendix provides the responsibility matrix for achieving or moving towards targets for each measure. The person or group responsible for each action is identified.

1. 2011 Responsibility action matrix

### **Appendix 1.7: Ecological Baseline Data – Supporting Tables**

This appendix contains supporting tables of baseline data for ecological measures.

1. Current Percentage of Old and Mature + Old in the Defined Forest Area by Landscape Unit-BEC variant (25 pages)
2. Current condition of young patch size by LU/NDT

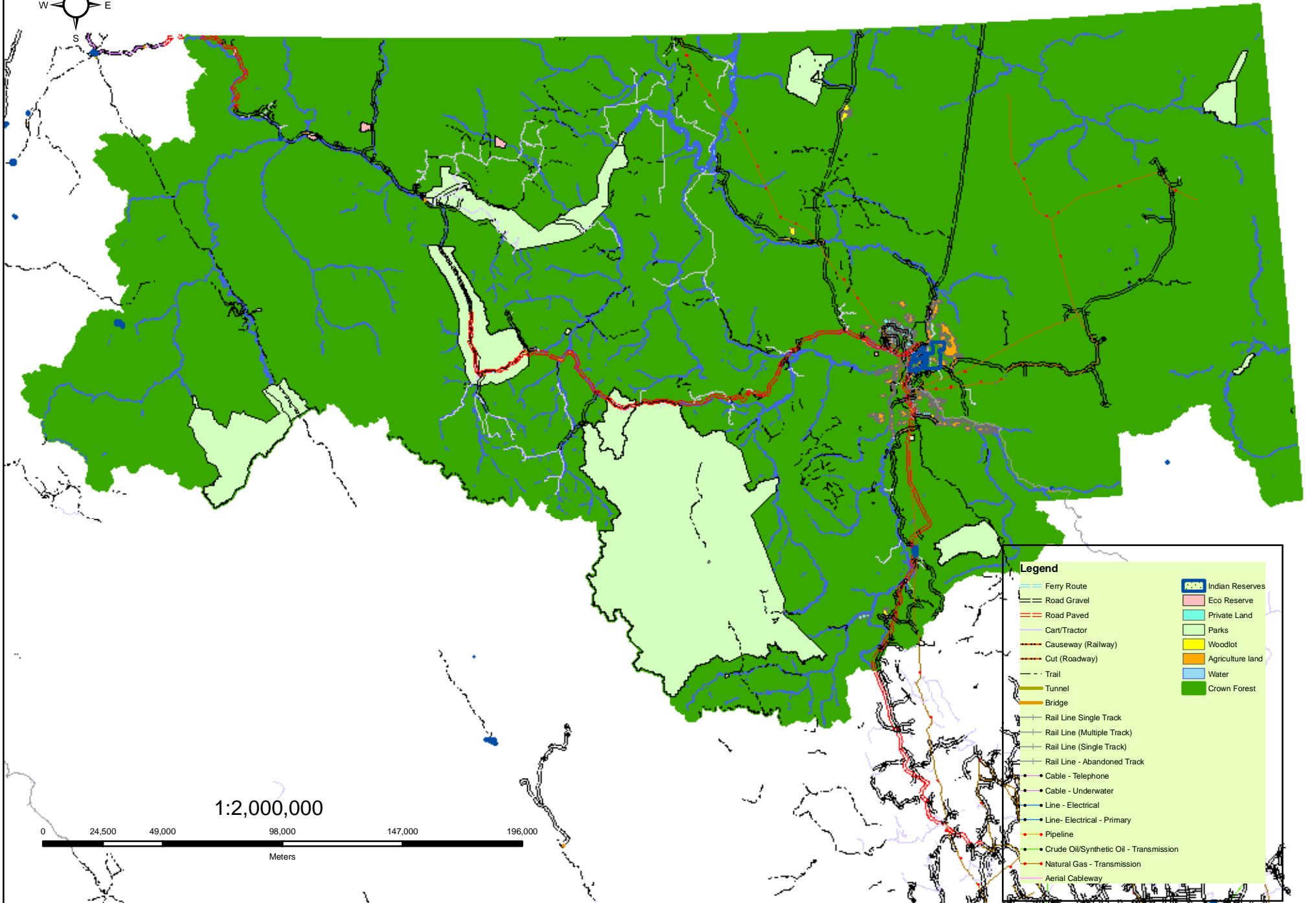
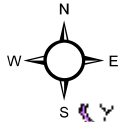
### **Appendix 1.8: Scenario Alternatives**

This appendix contains a matrix that compares the various scenarios and the impact on SFM measures. From the 2004 plan. For reference only.

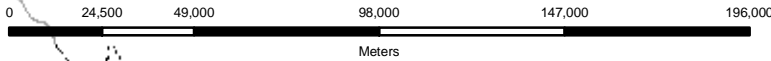
1. Scenario/Measure comparison matrix



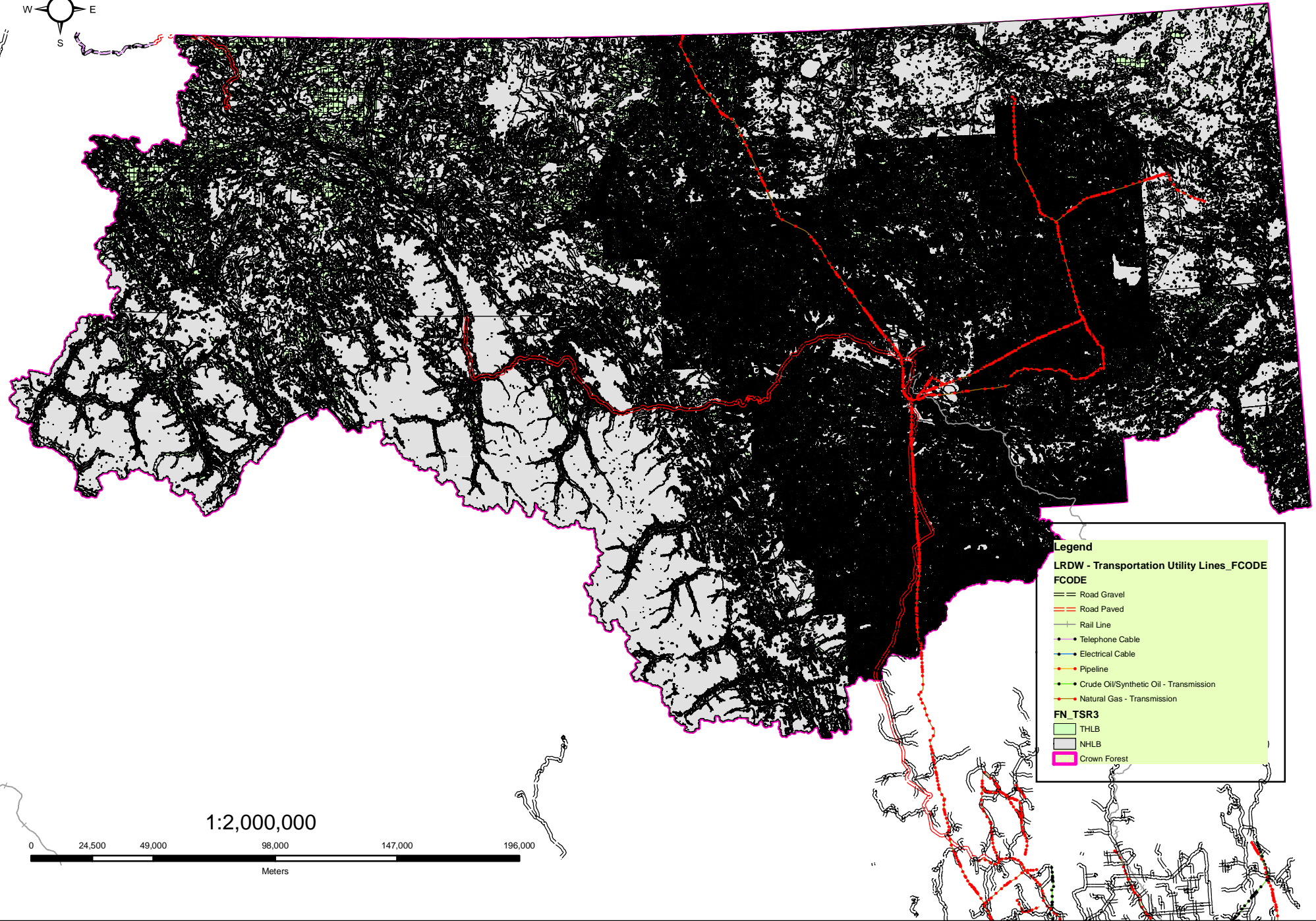
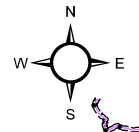
# Fort Nelson Defined Forest Area



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# Fort Nelson: THLB / NHLB



**Legend**

LRDW - Transportation Utility Lines\_FCODE

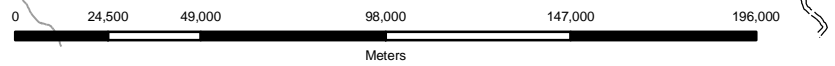
**FCODE**

- Road Gravel
- Road Paved
- Rail Line
- Telephone Cable
- Electrical Cable
- Pipeline
- Crude Oil/Synthetic Oil - Transmission
- Natural Gas - Transmission

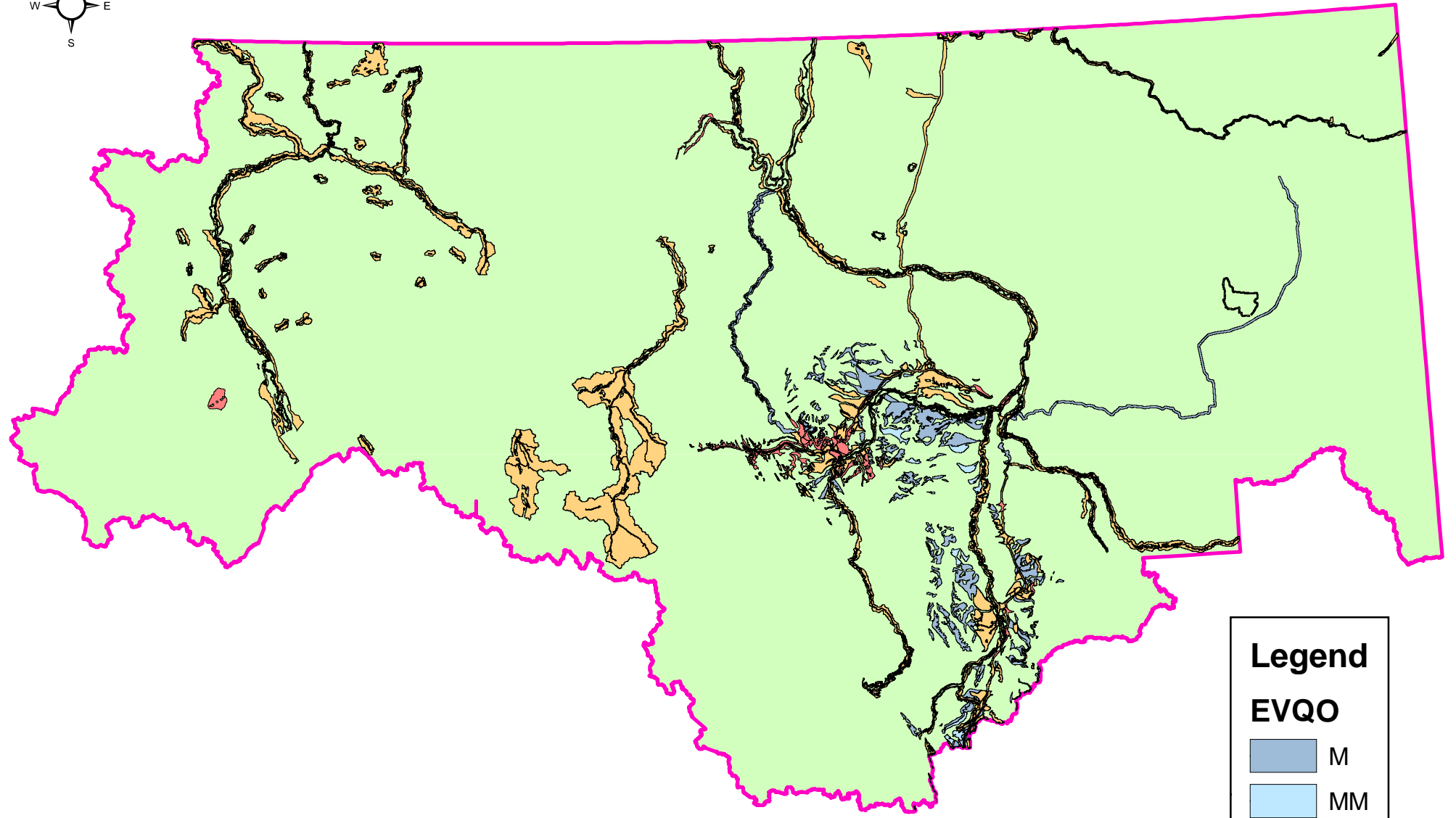
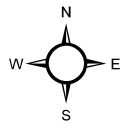
**FN\_TSR3**

- THLB
- NHLB
- Crown Forest

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# Fort Nelson TSA Visual Quality Objectives

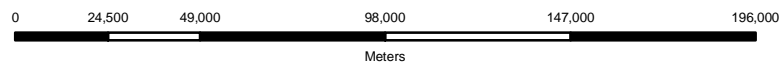


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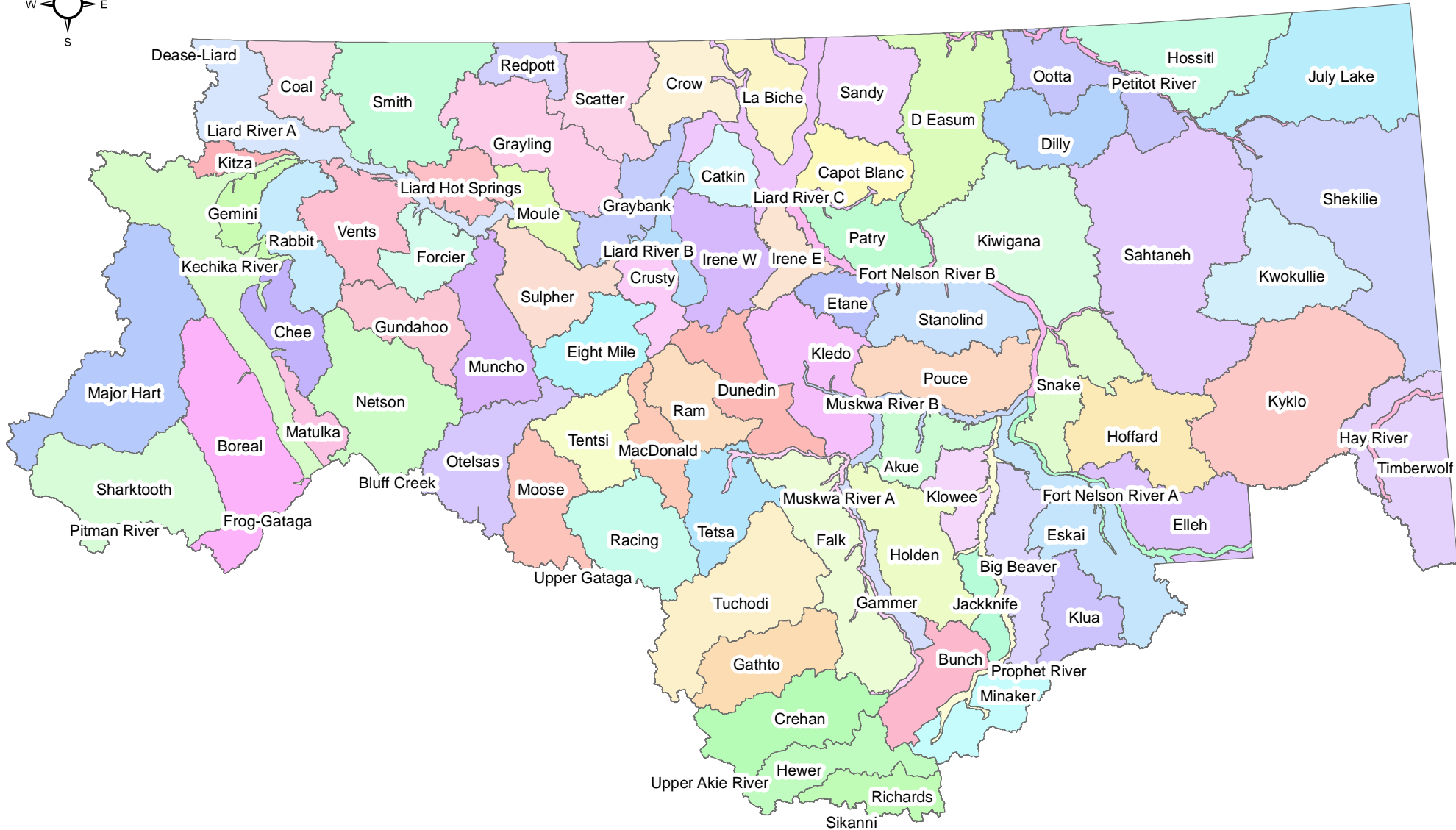
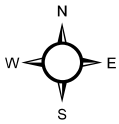
**EVQO**

	M
	MM
	P
	PR
	R

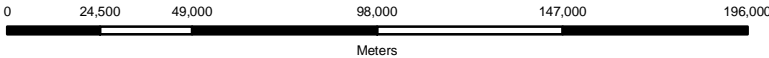
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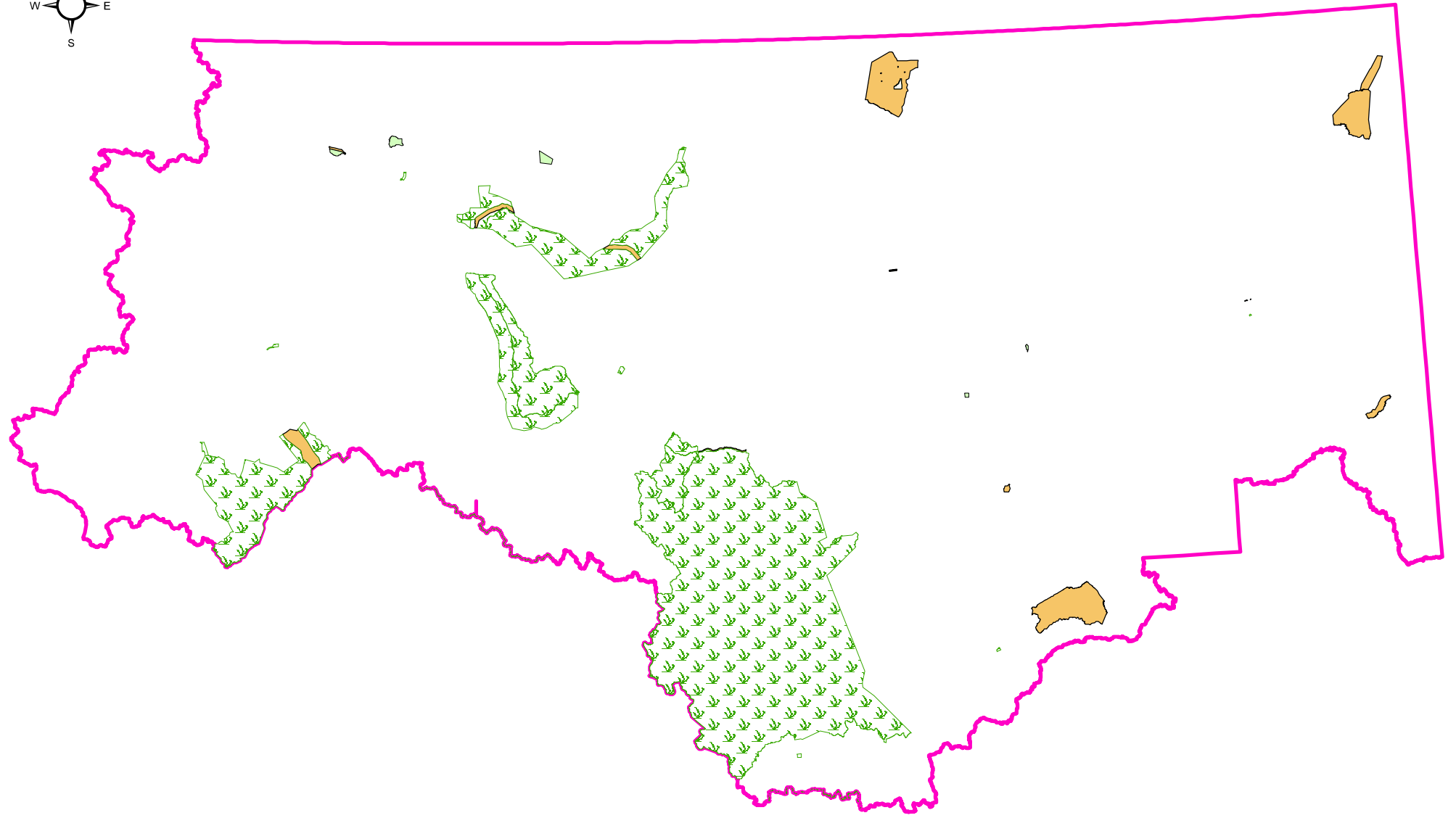
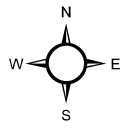
# Landscape Units



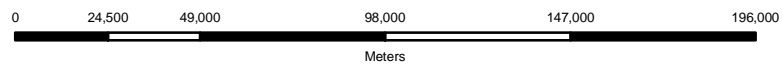
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# Protected Area Strategies



1:2,000,000

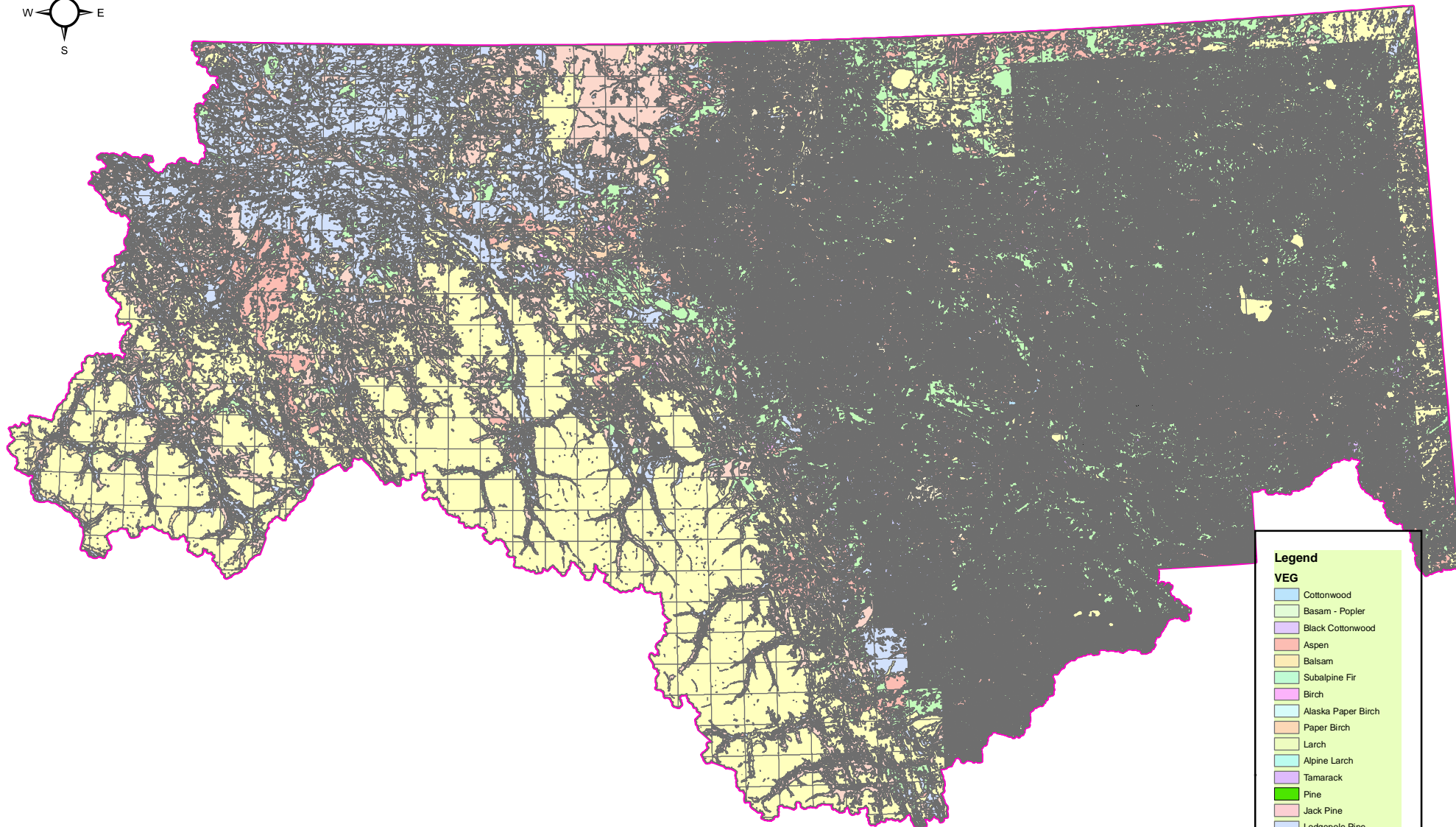
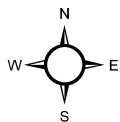


**Legend**

- ECOLOGICAL RESERVE
- PROTECTED AREA
- PROVINCIAL PARK
- Crown Forest




























# Vegetation Resource Inventory (VRI)

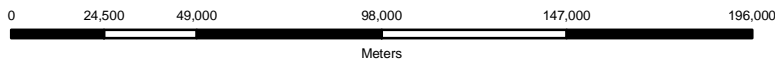


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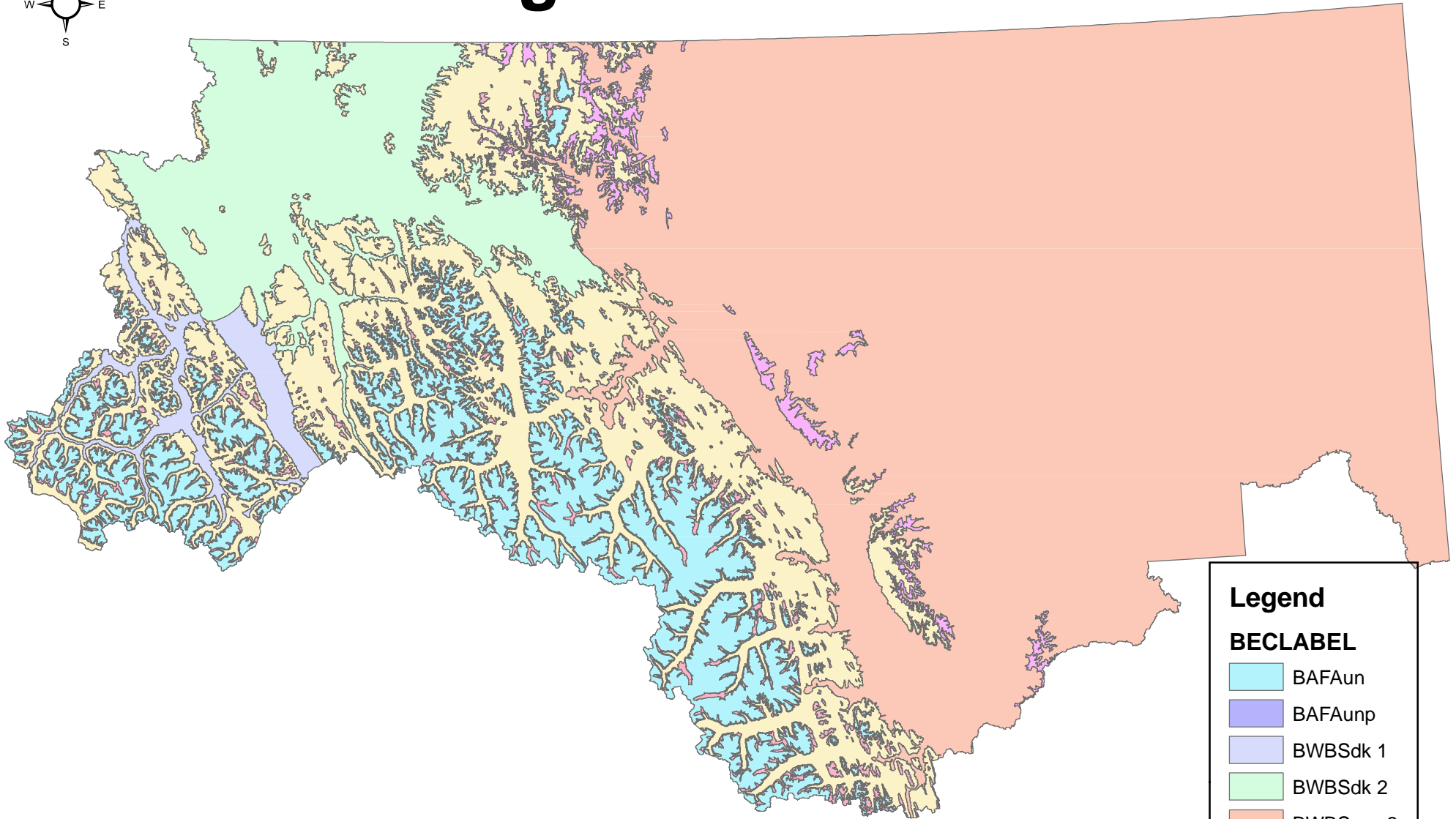
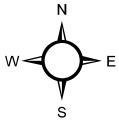
**VEG**

-  Cottonwood
-  Basam - Popler
-  Black Cottonwood
-  Aspen
-  Balsam
-  Subalpine Fir
-  Birch
-  Alaska Paper Birch
-  Paper Birch
-  Larch
-  Alpine Larch
-  Tamarack
-  Pine
-  Jack Pine
-  Lodgepole Pine
-  Lodgepole Pine - Interior
-  Spruce
-  Black Spruce
-  Engelmann Spruce
-  White Spruce
-  Spruce Hybrid
-  Western Yew
-  Scouler's Willow
-  No Forests
-  Crown Forest

1:2,000,000



# Biogeoclimatic Zones

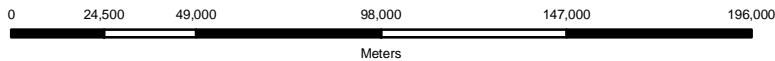


**Legend**

**BECLABEL**

- BFAAun
- BFAAunp
- BWBSdk 1
- BWBSdk 2
- BWBSmw 2
- BWBSwk 2
- BWBSwk 3
- SWB mk
- SWB mks

1:2,000,000



## Guiding Tenure Holders

Tenure Number	Client Name	Business Name	Address	Phone	Fax	Altenate Contact	Email
GOFJ1061411	Darwin Cary	Scoop Lake Outfitters	5615 Deapine Drive, Kelowna, BC, v1P 1A3	250-491-1885	867-536-2364		<a href="mailto:Scooplake@okanagan.net">Scooplake@okanagan.net</a>
			Box 37, Watson Lake YT, Y0A 1C0			JJ37353 Watson Lake CH	
GOFJ1061955	James Leif Olsen	Stone Mountain Safaris	Box 7870, Toad River,BC, V0C 2X0	250-232-5469	250-232-5801		<a href="mailto:Leif@stonemountain Safaris.com">Leif@stonemountain Safaris.com</a>
GOFJ1061049	Dale Drinkall	Folding Mountain Outfitters	Box 27, Toad River, BC, V0C 2X0	250-232-5451	250-232-5009		<a href="mailto:foldingmountain@linsat.com">foldingmountain@linsat.com</a>
GOFJ1060737	Phil Gillis	Beeant Holdings ltd	Box 1684, Fort Nelson, BC, VOC 1R0	250-774-6307	250-774-3100		<a href="mailto:phil.gillis@ytsympatico.ca">phil.gillis@ytsympatico.ca</a>
GOFJ1061071	Shawn Raymond	Coal River Outfitters	Box 3910, Fort Nelson, BC, VOC 1R0	250-233-8712	250-233-8714	cell 250-263-7070	<a href="mailto:coalriver@ytsympatico.ca">coalriver@ytsympatico.ca</a>
GOFJ1059739	Frank Mueller	Yukon Fishing Lodge	Box 31608, Whitehorse, BC, Y1A 6L2	867-660-4073			<a href="mailto:frank@yukonfishinglodge.com">frank@yukonfishinglodge.com</a>
GOFJ1066242	Chris Schippmann	Liard River Adventures	7382 L & A Road, Vernon, BC, V1B 3S6	250-630-2704	250-630-2708	403-987-0499	<a href="mailto:huntlra@telus.net">huntlra@telus.net</a>
GOFJ1061101	Frank Simpson	Simpson Stone Sheep ltd	Box 1901, Claresholm, AB, T0L 0T0	403-625-2150	403-625-2165		
			Rene Fionne, Box 394, Watson Lake, YT, Y0A 1C0				
GOFJ1061035	Aurther Thompson	Gundahoo River Outfitting inc	Box 39, Muncho Lake, BC, V0C 1Z0	403-728-3752	403-728-3754	403-997-3310	<a href="mailto:gundahoo@teluslanet.net">gundahoo@teluslanet.net</a>
			Box 449, Caroline, AB, T0M 0M0	403-728-3752			



## Guiding Tenure Holders

Tenure Number	Client Name	Business Name	Address	Phone	Fax	Altenate Contact	Email
GOFJ1060899	Barry Tompkins	Big Nine Outfitters	Box 6742, Ft St John, BC, V1J 4J2	250-787-8431	250-787-9732		<a href="mailto:hunting@highandwild.com">hunting@highandwild.com</a>
GOFJ1064076	Tom Vince	Vince Holdings	Box 175, 9420 93rd Ave, Ft St John, BC, V1J 6W7	250-263-4350	250-784-4321		<a href="mailto:tomvince@hotmail.com">tomvince@hotmail.com</a>
GOFJ1061548	Larry Warren	Tuchodi River Outfitters	Box 59, Hudsons Hope, BC, V0C 1V0	250-263-4526	250-783-5751	Cell 250-261-0385	<a href="mailto:lwarren@pris.ca">lwarren@pris.ca</a>

## Oil and Gas Companies

Group Name	Division/ Branch	Source of Contact	Geographic area of Interest	Contact Person	Phone Number	Email address	Fax Number	Mailing Address	Community	Province/ State	Postal code/Z ip Code	Country (other than Canada)
7 generations energy		<a href="http://www.yellowpages.ca/search/si/1/Seven-Generations-Energy-Corp/Alberta">http://www.yellowpages.ca/search/si/1/Seven-Generations-Energy-Corp/Alberta</a>	All	N/A	403-718-0700	N/A	N/A	Suite 25FI 400-5th ave SW	Calgary	AB	T2P 3C4	
Advantage Oil and Gas		<a href="http://www.advantageog.com">http://www.advantageog.com</a>	All	N/A	403-718-8000	<a href="mailto:ir@advantageog.com">ir@advantageog.com</a>	403-718-8300	Canterra Tower, Suite 700 400-3rd Ave SW	Calgary	AB	T2P 4H2	
Anadarko		<a href="http://www.anadarko.com/Home/Pages/Home.aspx">http://www.anadarko.com/Home/Pages/Home.aspx</a>	All	N/A	832-636-1000	<a href="mailto:energyservices@anadarko.com">energyservices@anadarko.com</a>	N/A	1201 Lake Robbins Drive	The Woodlands	Tx	77380	USA
Anderson Exploration (Numac Energy)		<a href="http://www.andersonenergy.ca/index.html">http://www.andersonenergy.ca/index.html</a>	All	N/A	403-262-6307	<a href="mailto:info@andersonenergy.ca">info@andersonenergy.ca</a>	403-261-2792	700 Selkirk House, 555-4th ave SW	Calgary	AB	T2P 3E7	
Apache Corporation		<a href="http://www.apachecorp.com/Operations/Canada/Contacts.aspx">http://www.apachecorp.com/Operations/Canada/Contacts.aspx</a>	All	N/A	403-261-1200	<a href="mailto:Can_steward.shared@apachecorp.com">Can_steward.shared@apachecorp.com</a>	403-266-5987	700 9th Ave SW	Calgary	AB	T2P 3V4	
Aquest Energy		<a href="http://www.alacrastore.com/company-snapshot/Aquest_Energy_Ltd-2518459">http://www.alacrastore.com/company-snapshot/Aquest_Energy_Ltd-2518459</a>	All	N/A	403-444-0251	N/A	N/A	Suite 1000, Life Plaza 734-7th Ave SW	Calgary	AB	T2P 3P8	
ARC Resources Ltd. (Storm Exploration)		<a href="http://www.stormexploration.com/en-ca/default.htm">http://www.stormexploration.com/en-ca/default.htm</a>	All	N/A	403-503-8600	N/A	N/A	Suite 1200 308-4th Ave SW	Calgary	AB	T2P 0H7	
Audax Energy		<a href="http://www.audax.com.au/">http://www.audax.com.au/</a>	All	N/A	61(0)8-9226-2822	<a href="mailto:admin@adxenergy.com.au">admin@adxenergy.com.au</a>	61(0)8-9226-5333	PO Box 913, Suite 6, Level 2, 11 Ventnor Ave	West Perth	N/A	6872	Australia
Baytex Energy		<a href="http://www.baytex.ab.ca/">http://www.baytex.ab.ca/</a>	All	N/A	587-952-3000	<a href="mailto:investor@baytex.ab.ca">investor@baytex.ab.ca</a>	587-952-3029	Centennial Place, East Tower, 520-3rd Ave SW	Calgary	AB	T2P 0R3	

## Oil and Gas Companies

Group Name	Division/ Branch	Source of Contact	Geographic area of Interest	Contact Person	Phone Number	Email address	Fax Number	Mailing Address	Community	Province/ State	Postal code/Z ip Code	Country (other than Canada)
Belaire		<a href="http://goliath.ecnext.com/coms2/product-compint-0000521724-page.html">http://goliath.ecnext.com/coms2/product-compint-0000521724-page.html</a>	All	N/A	403-265-1411	N/A	403-263-8119	Ste 2810, 605-5th ave SW	Calgary	AB	T2P 3H5	
Bellamont Exploration Ltd.		<a href="http://www.bellamont.com/management.html">http://www.bellamont.com/management.html</a>	All	N/A	403-802-6840	<a href="mailto:info@bellamont.com">info@bellamont.com</a>	403-802-1315	Suite 1208 250-2nd street SW	Calgary	AB	T2P 0C1	
BG Group		<a href="http://www.bg-group.com/Pages/BGHome.aspx">http://www.bg-group.com/Pages/BGHome.aspx</a>	All	N/A	44(0) 118 935-3222		44(0) 118 935-3484	BG Group PIC, Thames Valley Park	Reading	Birkshire	RG6 1PT	UK
Black Mountain Energy Corporation		<a href="http://www.manta.com/ic/mt6k4y3/ca/black-mountain-energy-corporation">http://www.manta.com/ic/mt6k4y3/ca/black-mountain-energy-corporation</a>	All	N/A	403-538-8435	N/A	N/A	602 12th ave SW, Suite 700	Calgary	AB	T2R 1J3	
BLZ Energy Ltd.		<a href="http://www.manta.com/ic/mt6187g/ca/blz-energy-ltd">http://www.manta.com/ic/mt6187g/ca/blz-energy-ltd</a>	All	N/A	403-237-9806	N/A	N/A	Guinness House	Calgary	AB	T2P 0Z5	
Bonavista Energy		<a href="http://www.bonavistaenergy.com/">http://www.bonavistaenergy.com/</a>	All	Keith MacPhail	403-213-4300	<a href="mailto:nv_rel@bonavistaenergy.com">nv_rel@bonavistaenergy.com</a>	403-262-5184	1500 525-8th Ave SW	Calgary	AB	T2P 1G1	
Border Petroleum (decker Petroleum)		<a href="http://www.fpinformart.ca/fpsn/snap_display.php?key=fp%7Cfpsn%7C1413">http://www.fpinformart.ca/fpsn/snap_display.php?key=fp%7Cfpsn%7C1413</a>	All	Kelly Kimbly	403-538-8448	N/A	403-444-5042	500 1414-8th street SW	Calgary	AB	T2R 1J6	
BP Canada		<a href="http://www.bp.com">www.bp.com</a>	All	N/A	403-233-1313	N/A	N/A	240-4th Ave SW	Calgary	AB	T2P 2H8	
canadian coastal resources		<a href="http://www.manta.com/ic/mt675bm/ca/canadian-coastal-resources-ltd">http://www.manta.com/ic/mt675bm/ca/canadian-coastal-resources-ltd</a>	All	N/A	403-261-1002	N/A	N/A	Bow valley Square 1	Calgary	AB	T2P 2R9	
Canadian Natural Resoures Limited		<a href="http://www.cnrl.com/">http://www.cnrl.com/</a>	All	N/A	403-517-6700	N/A	403-517-7350	2500 855-2nd street SW	Calgary	AB	T2P 4J8	
Cancen Oil		<a href="http://www.cancenoil.com/">http://www.cancenoil.com/</a>	All	Wayne Willis	250-321-2410	<a href="mailto:waynew@cancenoil.com">waynew@cancenoil.com</a>	780-941-2188	PO Box 234	New Sarepta	AB	T0B 3M0	

## Oil and Gas Companies

Group Name	Division/ Branch	Source of Contact	Geographic area of Interest	Contact Person	Phone Number	Email address	Fax Number	Mailing Address	Community	Province/ State	Postal code/Z ip Code	Country (other than Canada)
CCS Corporation		<a href="http://www.ccsenergyservices.com/">http://www.ccsenergyservices.com/</a>	All	Devon Soucie	250-774- 3027	<a href="mailto:info@ccscorporation.ca">info@ccscorporation.ca</a>	403-261- 5612	1800 140-10 ave SE	Calgary	AB	T2G 0R1	
Chesapeake Energy		<a href="http://www.chk.com/Pages/default.aspx">http://www.chk.com/Pages/default.aspx</a>	All	Jeff Mobely	405-935- 8000	<a href="mailto:jeff.mobley@chk.com">jeff.mobley@chk.com</a>	N/A	PO Box 18496	Oklahoma City	OK	73154- 0496	USA
Coastal Energy		<a href="http://www.coastalenergy.com">http://www.coastalenergy.com</a>	All	N/A	713-877- 7125	N/A		2255 West Alabama Suite 500	Houston	Texas	77098	
Compton Petroleum		<a href="http://www.comptonpetroleum.com/">http://www.comptonpetroleum.com/</a>	All	N/A	403-237- 9400	<a href="mailto:cmt@comptonpetroleum.com">cmt@comptonpetroleum.com</a>	403-237- 9410	Suite 500, Banker's Court 850-2nd Street SW	Calgary	AB	T2P 0R8	
ConocoPhillips (burlington resources)		<a href="http://www.conocophillips.ca/EN/Pages/index.aspx">http://www.conocophillips.ca/EN/Pages/index.aspx</a>	All	N/A	403-233- 4000	N/A	403-233- 5143	PO Box 130 Station M	Calgary	AB	T2P 2H7	
Crew Energy		<a href="http://www.crewenergy.com/">http://www.crewenergy.com/</a>	All	N/A	403-266- 2088	N/A	403-266- 6259	1400 425 1st street SW	Calgary	AB	T2P 3L8	
Delphi Energy Corporation		<a href="http://www.delphienergy.ca/">http://www.delphienergy.ca/</a>	All	N/A	403-265- 6171	<a href="mailto:info@delphienergy.ca">info@delphienergy.ca</a>	403-265- 6207	Suite 300 500-4th Ave SW	Calgary	AB	T2P 2V6	
Devon Energy		<a href="http://www.devonenergy.com">http://www.devonenergy.com</a>	All	N/A	403-232- 7100	N/A	N/A	2000 400-3rd Ave SW	Calgary	AB	T2P 4H2	
DomCan Boundary Corp		<a href="http://www.ibegin.com/directory/ca/british-columbia/fort-st-john/domcan-boundary-corp-10511-100-ave/">http://www.ibegin.com/directory/ca/british-columbia/fort-st-john/domcan-boundary-corp-10511-100-ave/</a>	All	N/A	250-785- 1354	N/A	250-787- 0834	10511 100th ave	Ft St John	BC	V1J 1Z1	
Encana Corporation		<a href="http://www.encana.com/">http://www.encana.com/</a>	All	Angela White	250-233- 8265	<a href="mailto:NW.ABcommunity@encana.com">NW.ABcommunity@encana.com</a>	N/A	PO Box 2380	Fort Nelson	BC	V0C 1R0	
Enermark Inc.		<a href="http://www.manta.com/ic/mt6950f/ca/enermark-inc">http://www.manta.com/ic/mt6950f/ca/enermark-inc</a>	All	N/A	403-362- 3403	N/A	N/A	716 1st St E	Brooks	AB	T1R 0M9	

## Oil and Gas Companies

Group Name	Division/ Branch	Source of Contact	Geographic area of Interest	Contact Person	Phone Number	Email address	Fax Number	Mailing Address	Community	Province/ State	Postal code/Z ip Code	Country (other than Canada)
Enerplus		<a href="http://www.enerplus.com/">http://www.enerplus.com/</a>	All	N/A	403-298-2200	<a href="mailto:stakeholder_relations@enerplus.com">stakeholder_relations@enerplus.com</a>	403-298-2211	The Dome Tower, Suite 3000 333-7th Ave SW	Calgary	AB	T2P 2Z1	
EOG Resources		<a href="http://www.eogresources.com/home/index.html">http://www.eogresources.com/home/index.html</a>	All	N/A	403-297-9100	N/A	403-297-9199	suite 1300 700-9th Ave SW	Calgary	AB	T2P 3V4	
Equitas Resources (Trivello Energy)		<a href="http://www.equitasresources.com/s/Home.asp">http://www.equitasresources.com/s/Home.asp</a>	All	N/A	604-681-1568	<a href="mailto:info@equitasresources.com">info@equitasresources.com</a>	N/A	1450-789 W Pender St	Vancouver	BC	V6H 1H2	
ExxonMobil		<a href="http://www.exxonmobil.com/Corporate/">http://www.exxonmobil.com/Corporate/</a>	All	Alan jeffers	902-496-995	<a href="mailto:info@soep.com">info@soep.com</a>	902-496-0958	PO Box 517 Stn. Central	Halifax	NS	B2J 3M8	
Future Environmental Technologies Group (FET GROUP)		<a href="http://fetgroup.co.uk/">http://fetgroup.co.uk/</a>	All	N/A	0800-294-9770	<a href="mailto:info@fetgroup.co.uk">info@fetgroup.co.uk</a>	0845-294-4765	Not available	Not Available	N/A	N/A	
Gear Energy		<a href="http://www.gearenergy.com">http://www.gearenergy.com</a>	All	N/A	403-538-8435	<a href="mailto:info@gearenergy.com">info@gearenergy.com</a>	403-705-2660	1600 202-6th ave SW	Calgary	AB	T2P 2R9	
Great plains exploration		<a href="http://www.qiscapital.com/images/RRGPX.pdf">http://www.qiscapital.com/images/RRGPX.pdf</a>	All	Stephen Gibson	403-262-9620	<a href="mailto:info@greatplainsexp.com">info@greatplainsexp.com</a>	403-262-9622	Suite 2300 520 - 5th ave SW	Calgary	AB	T2P 3R7	
Halliburton Canada		<a href="http://www.halliburton.com">http://www.halliburton.com</a>	All	N/A	403-231-9300	N/A	N/A	#1600 645-7th ave SW	Calgary	AB	T2P 4G8	
Harvest operations corporation		<a href="http://www.harvestenergy.ca/corporate-overview/contact-us.html">http://www.harvestenergy.ca/corporate-overview/contact-us.html</a>	All	N/A	403-265-1178	<a href="mailto:information@harvestenergy.ca">information@harvestenergy.ca</a>	N/A	2100 330-5th Ave SW	Calgary	AB	T2P 0L4	
High Point Reosurces		<a href="http://www.profilecanada.com/companydetail.cfm?company=194486_High_Point_Reosurces_Inc_Calgary_AB">http://www.profilecanada.com/companydetail.cfm?company=194486_High_Point_Reosurces_Inc_Calgary_AB</a>	All	Glen Yeryk	403-269-2487	N/A	403-264-2498	1400-255 5th ave SW	Calgary	AB	T2P 3G6	

## Oil and Gas Companies

Group Name	Division/ Branch	Source of Contact	Geographic area of Interest	Contact Person	Phone Number	Email address	Fax Number	Mailing Address	Community	Province/ State	Postal code/Z ip Code	Country (other than Canada)
Highpine (Daylight Energy)		<a href="http://www.daylightenergy.com/">http://www.daylightenergy.com/</a>	All	Brian Prokop	403-266-6900	<a href="mailto:ir@daylightenergy.com">ir@daylightenergy.com</a>	403-266-6988	Sun Life Plaza, West Tower, Suite 2100 144-4th Ave SW	Calgary	AB	T2P 3N4	
Hunt oil		<a href="http://www.huntoil.com/hoc/">http://www.huntoil.com/hoc/</a>	All	N/A	403-531-1530	N/A	N/A	Suite 3100 TransCanada Tower 450-1st street SW	Calgary	AB	T2P 5H1	
husky energy		<a href="http://www.huskyenergy.com/">http://www.huskyenergy.com/</a>	All	N/A	403-298-6111	N/A	403-298-7464	707 8th Ave SW	Calgary	AB	T2P 3G7	
Imperial Oil		<a href="http://www.imperialoil.ca/Canada-English/default.aspx">http://www.imperialoil.ca/Canada-English/default.aspx</a>	All	N/A	403-237-3737	<a href="mailto:rccr.essoweb@exxonmobil.com">rccr.essoweb@exxonmobil.com</a>	N/A	237 4th Ave SW	Calgary	AB	T2P 4K3	
Interquest		<a href="http://www.hotfrog.ca/Companies/Interquest">http://www.hotfrog.ca/Companies/Interquest</a>	All	N/A	403-262-7507	N/A	N/A	324 8th Ave Suite 1500	Calgary	AB	T2P 2Z2	
ISH Energy Ltd.		<a href="http://www.canpages.ca/page/AB/calgary/ish-energy-ltd/2167534.html">http://www.canpages.ca/page/AB/calgary/ish-energy-ltd/2167534.html</a>	All	N/A	403-262-2244	N/A	403-265-1792	Suite 900 700-4th Ave SW	Calgary	AB	T2P 3J4	
Kanati Energy Inc.		<a href="http://www.weblocal.ca/kanati-energy-inc-calgary-ab.html">http://www.weblocal.ca/kanati-energy-inc-calgary-ab.html</a>	All	N/A	403-455-4719	N/A	N/A	506 6th st SW	Calgary	AB	T2P 0S4	
Keyera		<a href="http://www.keyera.com">www.keyera.com</a>	All	N/A	403-205-8300	<a href="mailto:ir@keyera.com">ir@keyera.com</a>	403-205-8318	Suite 600, Sun Life Plaza, West Tower, 144-4th ave SW	Calgary	AB	T2P 3n4	
Kodiak Petroleum		<a href="http://www.kodiakpetroleum.com/s/Home.asp">http://www.kodiakpetroleum.com/s/Home.asp</a>	All	N/A	403-262-8044	<a href="mailto:info@kodiakpetroleum.com">info@kodiakpetroleum.com</a>	403-513-2670	Canadian Center, Suite 1120, 833-4th Ave SW	Calgary	AB	T2P 3T5	
Legacy oil and gas		<a href="http://www.legacyoilandgas.com/">http://www.legacyoilandgas.com/</a>	All	N/A	403-441-2300	<a href="mailto:info@legacyoilandgas.com">info@legacyoilandgas.com</a>	403-441-2017	3900 Bow Valley Square II, 205-5th Ave SW	Calgary	AB	T2P 2V7	

## Oil and Gas Companies

Group Name	Division/ Branch	Source of Contact	Geographic area of Interest	Contact Person	Phone Number	Email address	Fax Number	Mailing Address	Community	Province/ State	Postal code/Z ip Code	Country (other than Canada)
Marathon oil		<a href="http://www.marathon.com/">http://www.marathon.com/</a>	All	Howard Thill	403-233- 1700	<a href="mailto:hjthill@marathonoil.com">hjthill@marathonoil.com</a>	N/A	2400-440 2nd Ave SW	Calgary	AB	T2P 5E9	
Murphy oil corp		<a href="http://www.murphyoilcorp.com/">http://www.murphyoilcorp.com/</a>	All	Barry Jeffery	403-294- 8000	<a href="mailto:barry_jeffery@murphyoilcorp.com">barry_jeffery@murphyoilcorp.com</a>	N/A	Centennial Place, East Tower, 520-3rd Ave SW	Calgary	AB	T2P 0R3	
NCE Resources Group		<a href="#">N/A</a>	All	N/A	416-364- 8788	N/A	416-364- 5615	130 king street	Toronto	ON	M5X 1A4	
Nexen Inc.		<a href="http://www.nexeninc.com/">http://www.nexeninc.com/</a>	All	N/A	403-699- 4000	N/A	403-699- 5800	801 7th ave SW	Calgary	AB	T2P 3P7	
Nuvista Energy Ltd.		<a href="http://www.nuvistaenergy.com/">http://www.nuvistaenergy.com/</a>	All	Keith MacPhail	403-538- 8500	<a href="mailto:inv_rel@nuvistaenergy.com">inv_rel@nuvistaenergy.com</a>	403-538- 8505	3500, 700-2nd street SW	Calgary	AB	T2P 2W2	
Nytis Exploration Company		<a href="http://www.nytis.ca/">http://www.nytis.ca/</a>	All	N/A	403-262- 8587	<a href="mailto:info@nytis.ca">info@nytis.ca</a>	403-262- 4672	#500 333-5th Ave SW	Calgary	AB	T2P 3B6	
Paramount resources		<a href="http://www.paramountres.com/">http://www.paramountres.com/</a>	All	N/A	403-290- 3600	N/A	403-262- 7994	4700 Bankers Hall West, 888-3rd street sw	Calgary	AB	T2P 5C5	
Penn West Exploration		<a href="http://www.pennwest.com/">http://www.pennwest.com/</a>	All	N/A	403-777- 2500	<a href="mailto:relations@pennwest.com">relations@pennwest.com</a>	N/A	Suite 200 207-9th Ave SW	Calgary	AB	T2P 1K3	
Penngrowth Energy		<a href="http://www.pengrowth.com/">http://www.pengrowth.com/</a>	All	N/A	403-233- 0224	<a href="mailto:investorrelations@pengrowth.com">investorrelations@pengrowth.com</a>	403-265- 6251	2100 222-3rd ave SW	Calgary	AB	T2P 0B4	
Petrobank		<a href="http://www.petrobank.com/">http://www.petrobank.com/</a>	All	N/A	403-750- 4400	<a href="mailto:ir@petrobank.com">ir@petrobank.com</a>	403-266- 5794	1900 111-5th Ave SW	Calgary	AB	T2P 3Y6	
Pioneer Natural Resources		<a href="http://www.pioneernrc.com/">http://www.pioneernrc.com/</a>	All	N/A	972-444- 9001	N/A	N/A	5205 N. O'Connor Blvd. Suite 200	Irving	Tx	75039	USA
Polar Star Canadian oil and gas company		<a href="http://www.tusk-energy.com/">http://www.tusk-energy.com/</a>	All	N/A	403-264- 8875	<a href="mailto:tusk@tusk-energy.com">tusk@tusk-energy.com</a>	403-263- 4247	Suite 1900 700-4th Ave SW	Calgary	AB	T2P 3J4	

## Oil and Gas Companies

Group Name	Division/ Branch	Source of Contact	Geographic area of Interest	Contact Person	Phone Number	Email address	Fax Number	Mailing Address	Community	Province/ State	Postal code/Z ip Code	Country (other than Canada)
Progress Energy		<a href="http://www.progressenergy.com/">http://www.progressenergy.com/</a>	All	Greg Kist	403-216-2514	N/A	403-216-2514	1200 205-5th Ave SW	Calgary	AB	T2P 2V7	
Questerre Energy		<a href="http://www.questerre.com/en/h/en/">http://www.questerre.com/en/h/en/</a>	All	Anela Dido	403-777-1185	<a href="mailto:info@questerre.com">info@questerre.com</a>	403-777-1578	1650 601-6th Ave SW	Calgary	AB	T2P 3W2	
QuickSilver Resources		<a href="http://www.qrinc.com/">http://www.qrinc.com/</a>	All	N/A	403-537-2455	<a href="mailto:CA_HSE@qrinc.ca">CA_HSE@qrinc.ca</a>	403-262-6115	One Palliser Square, 2000 125-9th Ave SE	Calgary	AB	T2G 0P8	
RamsHorn Investments (Nabors)		<a href="http://www.nabors.com/Public/index.asp?page_ID=23">http://www.nabors.com/Public/index.asp?page_ID=23</a>	All	N/A	403-263-6777	N/A	403-269-7352	2800 500-4th Ave SW	Calgary	AB	T2P 2V6	
Red Star oil and gas		<a href="http://www.rstar.ca/management.html">http://www.rstar.ca/management.html</a>	All	N/A	403-262-3130	N/A	403-239-0621	Suite 700, 500-5th ave SW	Calgary	AB	T2P 2V6	
Renelco Energy		<a href="http://www.renelco.com/">http://www.renelco.com/</a>	All	N/A	403-717-1590	N/A	403-717-1906	1338R 36th Ave NE	Calgary	AB	T2E 6T6	
Rotex Energy Ltd		<a href="http://www.rotexenergy.com">http://www.rotexenergy.com</a>	All	N/A	403-342-0850	<a href="mailto:info@rotexenergy.com">info@rotexenergy.com</a>	403-342-0857	#21 7895-49th ave	Red Deer	AB	T4P 2B4	
Samson Canada		<a href="http://www.samson.com/">http://www.samson.com/</a>	All	N/A	918-591-1791	<a href="mailto:tulsa@samson.com">tulsa@samson.com</a>	918-591-1796	Samson Investment Plaza, Samson Plaza, 2 west 2nd street	Tulsa	OK	74103-3103	USA
Secure Energy		<a href="http://www.secure-energy.ca/">http://www.secure-energy.ca/</a>	All	N/A	403-984-6100	<a href="mailto:info@secure-energy.ca">info@secure-energy.ca</a>	403-984-6101	1900 205-5th Ave SW	Calgary	AB	T2P 2V7	
SHHA Energy Transmission Ltd		<a href="http://www.miningnorth.com/busdirectory/business.asp?id=34">http://www.miningnorth.com/busdirectory/business.asp?id=34</a>	All	N/A	867-770-4700/1	N/A	867-770-4573	General Delivery	Fort Liard	NT	X0G 0A0	
Spectra Energy		<a href="http://www.spectraenergy.com/">http://www.spectraenergy.com/</a>	All	N/A	403-699-1999	N/A	N/A	425 1st Street SW	Calgary	AB	T2P 3L8	
Stone Mountain Resoures		None	All	N/A	403-261-3399	N/A	N/A	2800 144-8th ave SW	Calgary	AB	T2P 3n4	
Summit Energy		<a href="http://www.summitenergy.com/">http://www.summitenergy.com/</a>	All	N/A	502-429-3800	<a href="mailto:info@summitenergy.com">info@summitenergy.com</a>	N/A	10350 Ormsby Park Place	Louisville	KT	40223	USA



## Oil and Gas Companies

Group Name	Division/ Branch	Source of Contact	Geographic area of Interest	Contact Person	Phone Number	Email address	Fax Number	Mailing Address	Community	Province/ State	Postal code/Z ip Code	Country (other than Canada)
Suncor Energy		<a href="http://www.suncor.com/default.aspx">http://www.suncor.com/default.aspx</a>	All	N/A	403-296-8000	<a href="mailto:sef@suncor.com">sef@suncor.com</a>	403-296-3030	PO Box 2844 150-6th Ave SW	Calgary	AB	T2P 3E3	
Talisman Energy		<a href="http://www.talisman-energy.com/">http://www.talisman-energy.com/</a>	All	N/A	403-237-1234	<a href="mailto:tlm@talisman-energy.com">tlm@talisman-energy.com</a>	403-237-1902	Suite 2000 888-2rd street SW	Calgary	AB	T2P 5C5	
Taq North		<a href="http://www.taqa.ae/en/canada.html">http://www.taqa.ae/en/canada.html</a>	All	N/A	403-724-5001	<a href="mailto:info@taqaglobal.com">info@taqaglobal.com</a>	N/A	2100 308-4th Ave SW	Calgary	AB	T2P 0H7	
Terra Energy Corp		<a href="http://www.terraenergy.ca/index.php">http://www.terraenergy.ca/index.php</a>	All	N/A	403-699-7777	<a href="mailto:info@terraenergy.ca">info@terraenergy.ca</a>	403-264-7189	Suite 970 333-7th Ave SW	Calgary	AB	T2P 2Z1	
True Energy		<a href="http://www.trueenergy.com/">http://www.trueenergy.com/</a>	All	N/A	44 (0) 1654-712-713	<a href="mailto:hello@trueenergy.com">hello@trueenergy.com</a>	44 (0) 1654-710-641	Pendre Enterprise Park	Tywyn Gynedd	Wales	LL36 9LW	UK
Westcoast Energy Inc.		<a href="https://noms.westcoastpipeline.com/">https://noms.westcoastpipeline.com/</a>	All	N/A	403-699-1999	N/A	403-699-1998	425 1st Street SW	Calgary	AB	T2P 3L8	



# Trapping Tenure Holders

Deceased

Trapline Number	Trapper Name	Address	Contact Number	Alternate Contact
748T006				
748T006				
748T006				
748T006				
748T006				
748T006				
748T006				
748T006				
748T006				
748T009				
749T001				
749T001				
749T001				
749T001				
749T002	CHIPESIA ART - Deceased	PROPHET RIVER INDIAN BAND C/O Liza Wolf BOX 3250 FT NELSON, BC V0C 1R0		
749T002				
749T002				
749T002				
749T002				

# Trapping Tenure Holders

Deceased

Trapline Number	Trapper Name	Address	Contact Number	Alternate Contact
749T002				
749T002				
749T002				
749T002				
749T002				
749T002	TSAKOZA LINDA - Deceased	Prophet River Indian Band C/O Liza Wolf Box 3250 Fort Nelson BC V0C 1R0		
749T002	TSAKOZA ROSE - Deceased	Prophet River Indian Band C/O Liza Wolf Box 3250 Fort Nelson BC V0C 1R0		
749T003				
749T003				
749T004				
749T005				
749T006				
749T006				
749T007				
749T008				
749T009				
749T009				
749T010				
749T011				





## Trapping Tenure Holders

Deceased

Trapline Number	Trapper Name	Address	Contact Number	Alternate Contact
752T006				
752T006				
752T007	JOHNNY LARRY - Deceased	G / D GOOD HOPE LAKE BC V0C 1E0		
752T007				
752T008				
752T008				
752T009				
753T001				
753T003				
753T003				
753T003				
753T003				
753T003				
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753T004				
753T004				
753T004				
753T005				
754T001				
754T002				
754T003				
754T004				











# Trapping Tenure Holders

Deceased

Trapline Number	Trapper Name	Address	Contact Number	Alternate Contact
755T015				
756T001				
756T001				
756T001				
756T001				
756T001				
756T001				
756T001				
756T001				
756T001				
756T001				
756T001				
756T001				
756T001				
756T001				
756T001				
756T002				
756T003				
756T003				
756T003				
756T004				
756T005				
756T006				
756T007				
756T008				
756T009				
756T010				
756T011				



## Range Tenure Holders

Range Tenure Number	Client Name	Address
RAN073218	LEAKE, HERBERT CLARENCE	PO Box 31, Pink Mountain, BC, V0C2B0
RAN073246	RAYMOND, SHAWN A	PO Box 3901, Fort Nelson, BC, V0C1R0
RAN073578	SCOOP LAKE OUTFITTERS LTD.	5615 Deadpine Drive, Kelowna, BC, V1P1A3
RAN073731	STONE MOUNTAIN SAFARIS LTD.	Lot 2031, Mile 428 Alaska Highway, PO Box 7870, Toad River, BC, V0C2X0
RAN073846	TERMINUS MOUNTAIN WILDERNESS ADVENTURES INC.	Mile 422 Alaska Highway, PO Box 27, Toad River, BC, V0C2X0
RAN073848	SIMPSON STONE SHEEP LTD.	PO Box 1901, Claresholm, Alberta, T0L0T0
RAN074677	GUNDAHOO RIVER OUTFITTERS INC.	PO Box 449, Caroline, Alberta, T0M0M0
RAN074678	FOLDING MOUNTAIN OUTFITTERS LTD.	Mile 422 Alaska Highway, Box 27, Toad River, BC, V0C2X0
RAN075205	BIG NINE OUTFITTERS LTD.	PO Box 5742, Fort St. John, BC, V1J4H9
RAN075208	MUELLER, FRANK	PO Box 31608, Whitehorse, Yukon, Y1A 6L2
RAN075209	FELL, WAYNE MOIR	PO Box 283, Fort Nelson, BC, V0C1R0
RAN075587	LIARD RIVER ADVENTURES, LTD.	RR1 Comp 92 Site 15, Fort St. John, BC, V1J4M6
RAN075588	PROPHET RIVER FIRST NATION	PO Box 3250, Fort Nelson, BC, V0C1R0
RAN075591	TUCHODI RIVER OUTFITTERS LTD.	PO Box 59, Hudson's Hope, BC, V0C1V0
RAN075879	PROPHET MUSKWA ENTERPRISES LTD.	Box 6677, Fort St. John, BC, V1J4J1
RAN075880	SOUTHWICK, ROCKY	PO Box 12, Toad River, BC, V0C2X0
RAN075882	LEAKE, COLIN ROBERT	PO Box 8, Toad River, BC, V0C2X0
RAN075883	FULTON, JAMES SHANE	PO Box 25, Toad River, BC, V0C2X0
RAN075884	CLEMENTS, DAN	Mile 422 Alaska Highway, PO Box 30, Toad River, BC, V0C2X0
RAN075887	COBBETT, BETH ROSEANNE	SS 2 Site 3 Comp 26, Fort St. John, BC, V1J 4M7
RAN075888	ABENTUNG, MICHAEL	Mile 422, Alaska Highway, PO Box 3, Toad River, BC, V0C2X0
RAN076331	CADAN, NICHOLAS JOHN	43693 Watkins Road, Lake Errock, BC, V0M 1N0
RAN076332	BROWNE, JEFFREY GEORGE	PO Box 808, Fort Nelson, BC, V0C 1R0
RAN076333	BROWNE, JEFFREY GEORGE	PO Box 808, Fort Nelson, BC, V0C 1R0

## Government Entities

Group Name	Division/ Branch	Source of Contact	Geographic area of Interest	Contact Person	Phone Number	Email address	Fax Number	Mailing Address	Community	Province/Sta te	Postal code/Zip Code	Country (other than Canada)
Ministry of Forests, Mines and Lands	Regional Office	<a href="http://www.gov.bc.ca/for/">http://www.gov.bc.ca/for/</a>	ALL	N/A	250-565-4240	<a href="mailto:EnquiryBC@gov.bc.ca">EnquiryBC@gov.bc.ca</a>	250-565-4328	350-1011 4th ave	Prince George	BC	V2L 3H9	
Ministry of Environment	Fort St John	<a href="http://www.env.gov.bc.ca/peace/">http://www.env.gov.bc.ca/peace/</a>	ALL	N/A	250-787-3411	<a href="mailto:EnquiryBC@gov.bc.ca">EnquiryBC@gov.bc.ca</a>	250-787-3490	Room 400, 10003 110th Avenue	Fort St. John	BC	V1J 6M7	
Mnistry Of Environment - Water Stewardship	Prince George	<a href="http://www.env.gov.bc.ca/peace/">http://www.env.gov.bc.ca/peace/</a>	ALL	N/A	250-565-6135	<a href="mailto:EnquiryBC@gov.bc.ca">EnquiryBC@gov.bc.ca</a>	250-565-6629	Suite 325, 1011 5th St	Prince George	BC	V2L 2H9	
Ministry of Energy	Victoria	<a href="http://www.gov.bc.ca/ener">http://www.gov.bc.ca/ener</a>	ALL	Jake Jacobs	250-952-0241	<a href="mailto:Jake.Jacobs@gov.bc.ca">Jake.Jacobs@gov.bc.ca</a>	N/A	PO Box 9318, STN Prov Govt	Victoria	BC	V8W 9N3	
Ministry of Transportati on and Infrastructur e	Fort St John	<a href="http://www.gov.bc.ca/tran/index.html">http://www.gov.bc.ca/tran/index.html</a>	ALL	Derek Drummond	250 787-3237	<a href="mailto:Derek.Drummond@gov.bc.ca">Derek.Drummond@gov.bc.ca</a>	250 787-3279	Ste. 300 10003 110th Ave.	Fort St. John	BC	V1J6M7	
Ministry of Agriculture	Fort St John	<a href="http://www.gov.bc.ca/agri/index.html">http://www.gov.bc.ca/agri/index.html</a>	ALL	Patrick Vert	250-787-3240	<a href="mailto:Patrick.M.Vert@gov.bc.ca">Patrick.M.Vert@gov.bc.ca</a>	250-787-3299	10043 100th St	Fort St. John	BC	V1J 3Y5	
Ministry of Natural Resource Operations	Fort Nelson	<a href="http://www.for.gov.bc.ca/dfn/">http://www.for.gov.bc.ca/dfn/</a>	ALL	N/A	250-774-5511	<a href="mailto:Forests.FortNelsonDistrictOffice@gov.bc.ca">Forests.FortNelsonDistrictOffice@gov.bc.ca</a>	250-774-3704	RR#1 Mile 301 Alaska Hwy	Fort Nelson	BC	V0C 1R0	

## Government Entities

Group Name	Division/ Branch	Source of Contact	Geographic area of Interest	Contact Person	Phone Number	Email address	Fax Number	Mailing Address	Community	Province/Sta te	Postal code/Zip Code	Country (other than Canada)
Ministry of Aboriginal relations and reconcillatio ns		<a href="http://www.gov.bc.ca/arr">http://www.gov.bc.ca/arr</a>	ALL	N/A	1-800-663-7867	<a href="mailto:ABRInfo@gov.bc.ca">ABRInfo@gov.bc.ca</a>	N/A	PO Box 9100 STN Prov Gov	Victoria	BC	V8W 9B1	
Muskwa Kechika Advisory Board	Fort St.John	<a href="http://www.muskwa-kechika.com/">http://www.muskwa-kechika.com/</a>		Tom Briggs	250-794-1617	<a href="mailto:coordinator@muskwa-kechika.com">coordinator@muskwa-kechika.com</a>	N/A	Muskwa-Kechika Information Office C/O Muskwa Kechika avdisory board secratariat, 8923 83rd A Street	Ft St John	BC	V1J 6M1	
Northern Rockies Regional Municipality	Fort Nelson	<a href="http://www.northernrockies.ca/">http://www.northernrockies.ca/</a>	ALL	Council & Board:	(250)774-2541	<a href="mailto:justask@northernrockies.ca">justask@northernrockies.ca</a>	(250)774-679	Bag Service 399	Fort Nelson	BC	V0C 1R0	
Oil and Gas Commission	Victoria	<a href="http://www.bco.gc.ca/">http://www.bco.gc.ca/</a>	ALL	Alex Ferguson	250-419-4400	<a href="mailto:Alex.Ferguson@gov.bc.ca">Alex.Ferguson@gov.bc.ca</a>	N/A	PO Box 9318, STN Prov Govt	Victoria	BC	V8W 9N3	
Oil and Gas Commission	Fort Nelson		ALL	Annette Loe	250 774-2173	<a href="mailto:Annette.Loe@gov.bc.ca">Annette.Loe@gov.bc.ca</a>	250 774- 2094	PO Box 3100	Fort Nelson	BC	V0C 1R0	
BC Timber Sales Branch	Dawson Creek		ALL	Brian Wesleyson	250 784-1200	<a href="mailto:Brian.Wesleyson@gov.bc.ca">Brian.Wesleyson@gov.bc.ca</a>	250 784-	9000 17 st	Dawson Creek	BC	V1G4A4	



## Government Entities

Group Name	Division/ Branch	Source of Contact	Geographic area of Interest	Contact Person	Phone Number	Email address	Fax Number	Mailing Address	Community	Province/State	Postal code/Zip Code	Country (other than Canada)
Dept. of Fisheries & Oceans (DFO)	Pacific Region	<a href="http://www.dfo-mpo.gc.ca/index-eng.htm">http://www.dfo-mpo.gc.ca/index-eng.htm</a>	ALL	N/A	604-666-0384	<a href="mailto:info@dfo-mpo.gc.ca">info@dfo-mpo.gc.ca</a>	604-666-1847	Suite 200 - 401 Burrard St	Vancouver	BC	V6C 3S4	
Dept. of Indian Affairs	Vancouver	<a href="http://www.aic-inac.gc.ca/index-eng.asp">http://www.aic-inac.gc.ca/index-eng.asp</a>	ALL	N/A	1-800-567-9604	<a href="mailto:Infopubs@inac-aic.gc.ca">Infopubs@inac-aic.gc.ca</a>	(604) 775-7141	600 - 1138 Melville Street	Vancouver	BC	V6E 4S3	

## Industry Groups

Group Name	Division/Branch	Source of Contact	Geographic area of Interest	Contact Person	Phone Number	Email address	Fax Number	Mailing Address	Community	Province/State	Postal code/Zip Code	Country (other than Canada)
COFI (NFPA - P.G.)	Vancouver	<a href="http://www.cofi.org/">http://www.cofi.org/</a>	All	N/A	604-684-0211	<a href="mailto:info@cofi.org">info@cofi.org</a>	604-687-4930	1501-700 west Pender St	Vancouver	BC	V6C 1G8	
United Steeworkers Union	Burnaby	<a href="http://www.usw.ca/">http://www.usw.ca/</a>	All	Stephen Hunt	604-683-1117		604-688-6416	300-3920 Norland Ave	Burnaby	BC	V5G 4K7	
Kledo Construction	Fort Nelson	<a href="http://www.kledo.ca/">http://www.kledo.ca/</a>	All	Vic Komori	250-774-2501	<a href="mailto:victor.komori@kledo.ca">victor.komori@kledo.ca</a>	250 774-2504	PO Box 508, 4301 Nahanni Drive	Ft. Nelson	BC	V0C1R0	
Trans North Timber	Fort Nelson	<a href="#">Phone Book</a>	All	Leonard Peterson	250 774-7244	<a href="mailto:nttimber@northwestel.net">nttimber@northwestel.net</a>	250 774-7212	RR1	Ft. Nelson	BC	V0C1R0	
Canadian Association of Petroleum producers	Calgary	<a href="http://www.capp.ca/Pages/default.aspx#G3RkysRFM5to">http://www.capp.ca/Pages/default.aspx#G3RkysRFM5to</a>	all	N/A	403-267-1100	<a href="mailto:communication@capp.ca">communication@capp.ca</a>	403-261-4622	Suite 2100, 350 7th Avenue S.W	Calgary	AB	T2P 3N9	
Canadian Association of Geophysical contractors	Calgary	<a href="https://www.cagc.ca/">https://www.cagc.ca/</a>	all	N/A	403-265-0045	<a href="mailto:info@cagc.ca">info@cagc.ca</a>	403-265-0025	1045, 1015 - 4th St. S.W.	Calgary	AB	T2R 1J4	
CN Rail	Vancouver	<a href="http://www.cn.ca/">http://www.cn.ca/</a>			1-888-888-5909	<a href="mailto:CNBC@cn.ca">CNBC@cn.ca</a>	N/A	N/A	N/A	BC	N/A	
Chamber of Commerce	Fort Nelson	<a href="http://www.fortnelsonchamber.com/">http://www.fortnelsonchamber.com/</a>	All	N/A	250 774-2956	<a href="mailto:info@fortnelsonchamber.com">info@fortnelsonchamber.com</a>	250 774 2958	Box 196	Fort Nelson	BC	V0C 1R0	
Association for Mineral Exploration BC	Vancouver	<a href="http://www.amebc.ca/about-us/contact.aspx">http://www.amebc.ca/about-us/contact.aspx</a>	All	N/A	604-689-5271	<a href="mailto:info@amebc.ca">info@amebc.ca</a>	604-681-2363	Suite 800 889 West Pender St	Vancouver	BC	V6C 13B2	
Yukon Chamber of Mines	Whitehorse	<a href="http://www.ycmines.ca/webresources.html">http://www.ycmines.ca/webresources.html</a>	All	N/A	867-667-2090	<a href="mailto:info@ycmines.ca">info@ycmines.ca</a>	867-668-7127	3151B 3rd Ave	Whitehorse	YT	V1A 1G1	

## First Nations

Group Name	Division/B ranch	Source of Contact	Geographic area of Interest	Contact Person	Phone Number	Email address	Fax Number	Mailing Address	Community	Province/ State	Postal code/Zip Code	Country (other than Canada)
Fort Nelson First Nation	Fort Nelson	<a href="http://www.fnnation.org">http://www.fnnation.org</a>	1-12,14-26,33-44, 48-61, 63, 65, 67, 68, 71, 72, 79, 80	Chief & Council	250 774-7257	<a href="mailto:reception@fnnation.ca">reception@fnnation.ca</a>	250 774-7260	RR1 mile 293 Alaska Highway	Fort Nelson	BC	V0C1R0	
Dene Tha (Assumption/Zama)	High Level	<a href="http://www.denetha.ca">http://www.denetha.ca</a>	1-6, 71, 72	Chief and Council	888-926-6368	<a href="mailto:info@denetha.ca">info@denetha.ca</a>	780-926-2475	PO Box 958	High Level	AB	T0H 1Z0	
Fort Liard First Nation	Fort Liard	<a href="http://www.dehchobdc.ca/Communities/FL/Ft%20Liard.htm">http://www.dehchobdc.ca/Communities/FL/Ft%20Liard.htm</a>	6-8, 17-19, 37-41, 57, 58, 64, 65, 72	Band	867 770-4141	N/A	867 770-4144	General Delivery	Fort Liard	NWT	X0G 0A0	
Halfway River First Nation	Halfway River	<a href="http://www.halfwayriver.ca/index.asp">http://www.halfwayriver.ca/index.asp</a>	28, 30, 31, 47,	Chief & Council	250 772-5058	<a href="mailto:info@halfwayriver.ca">info@halfwayriver.ca</a>	250 772-5200	PO Box 59	Wonowon	BC	V0C 2N0	
Kaska Dena / Lower Post First Nations	Lower Post	<a href="http://www.kaskadenacouncil.com/">http://www.kaskadenacouncil.com/</a>	30, 33, 34, 36-63, 73-84	Council	250-779-3181	N/A	250-779-3020	P.O.Box 9	Lower Post	BC	V0C 1W0	
Prophet River First Nation	Prophet River	<a href="http://maps.fphlcc.ca/prophet_river">http://maps.fphlcc.ca/prophet_river</a>	3, 4, 10-15, 24-35, 43-50	Chief and Council	250 773-6555	N/A	250 773-6556	Box 3250	Fort Nelson	BC	V0C 1R0	
Tahltan First Nation	Telegraph Creek	<a href="http://pse5-esd5.ainc-inac.gc.ca/fnp/Main/Search/FNMain.aspx?BAND_NUMBER=682&amp;lang=eng">http://pse5-esd5.ainc-inac.gc.ca/fnp/Main/Search/FNMain.aspx?BAND_NUMBER=682&amp;lang=eng</a>	83, 84	Chief & Council	250 235-3151	N/A	250 235-3244	Box 46	Telegraph Creek	BC	V0J 2W0	

## Non-Government Agencies

Group Name	Division/ Branch	Source of Contact	Geographic area of Interest	Contact Person	Phone Number	Email address	Fax Number	Mailing Address	Community	Province/ State	Postal code/Zip Code	Country (other than Canada)
Our Forests Forever		<a href="#">Fort Nelson LRMP</a>	All	Mavis Brown	250 774- 2256			Box 331	Fort Nelson	BC	V0C 1R0	
Fort Nelson Trappers Association		<a href="#">Fort Nelson LRMP</a>	All	Trevor Ellingson	250-774- 2024				Fort Nelson	BC		
Guide Outfitters Association of British Columbia		<a href="http://www.goabc.org/">http://www.goabc.org/</a>	All	N/A	604-541- 6332	<a href="mailto:info@goabc.org">info@goabc.org</a>	604-541- 6339	Suite 103, 19140 28th Ave	Surrey	BC	V3S 6M3	
Fort Nelson Rod and Gun Club		<a href="http://www.facebook.com/groups.php?gid=64851045232">http://www.facebook.com/groups.php?gid=64851045232</a>	All	N/A	250-774- 7279	<a href="#">N/A</a>	N/A	N/A	Fort Nelson	BC		
Fort Nelson Farmer's Institute		<a href="#">Fort Nelson LRMP</a>	All	N/A	250 774- 6362	<a href="#">N/A</a>	N/A	Box 562	Fort Nelson	BC	V0C 1R0	
Chetwynd Environmental Society		<a href="http://www.ecobc.org/index.cfm?act=org&amp;org_ID=80">http://www.ecobc.org/index.cfm?act=org&amp;org_ID=80</a>	All	Wayne Sawchuk	250 788- 2685	<a href="mailto:wsawchuk@pris.bc.ca">wsawchuk@pris.bc.ca</a>	N/A	Box 2049	Chetwynd	BC	V0C 1J0	
Eh-Cho-Dene		<a href="http://www.rigskills.ca/data/9253.html">http://www.rigskills.ca/data/9253.html</a>	All	Rob Lee	250-774- 7523	<a href="#">N/A</a>	250-774- 7525	RR#1, Mile 293, Alaska Hwy	Fort Nelson	BC	V0C 1R0	
Canadian Parks and Wilderness Society		<a href="http://www.cpawsbc.org/">http://www.cpawsbc.org/</a>	All	N/A	604-685- 7445	<a href="mailto:info@cpawsbc.org">info@cpawsbc.org</a>	604-629- 8532	410-698 Seymour St	Vancouver	BC	V6B 3K6	
Toad River Area Club		<a href="#">Fort Nelson LRMP</a>	All	Colin Leake	250-232- 5455	<a href="#">N/A</a>	N/A	N/A	Fort Nelson	BC		

## Non-Government Agencies

Group Name	Division/ Branch	Source of Contact	Geographic area of Interest	Contact Person	Phone Number	Email address	Fax Number	Mailing Address	Community	Province/ State	Postal code/Zip Code	Country (other than Canada)
Northeastern BC Wildlife Committee		<a href="#">Fort Nelson LRMP</a>	All	Tom Fulton	250 232- 5211			Box 25	Toad River	BC	V0C1X0	
Tourism (Alaska Highway)		<a href="http://www.tourismnorthernrockies.ca/">http://www.tourismnorthernrockies.ca/</a>	All	N/A	250 774- 2541	<a href="mailto:justask@northernrockies.ca">justask@northernrockies.ca</a>	250 774- 6794	Bag Service 399	Fort Nelson	BC	V0C 1R0	
Tourism (Fish & game)		<a href="http://www.tourismnorthernrockies.ca/">http://www.tourismnorthernrockies.ca/</a>	All		251 774- 2541	<a href="mailto:justask@northernrockies.ca">justask@northernrockies.ca</a>	251 774- 6794	Bag Service 399	Fort Nelson	BC	V0C 1R0	
Fort Nelson Snowmobile Club		<a href="http://www.bcsf.org/clubs/club-contact-info/">http://www.bcsf.org/clubs/club-contact-info/</a>	All	Brian Fertuck	250-774- 2077	<a href="#">N/A</a>	N/A	N/A	Fort Nelson	BC		
Fort Nelson Sled Dog Association		<a href="http://www.northernrockies.ca/EN/main/residents/parks-recreation-leisure/recreation-department/clubsorgs.html">http://www.northernrockies.ca/EN/main/residents/parks-recreation-leisure/recreation-department/clubsorgs.html</a>	All	N/A	250 2991	<a href="#">N/A</a>	N/A	N/A	Fort Nelson	BC		
Fort Nelson Cross country ski club		<a href="#">Fort Nelson Chamber of Commerce</a>	All	Allison Starr	250-774- 2741	<a href="mailto:astarr@nlc.bc.ca">astarr@nlc.bc.ca</a>	N/A	Box 1888	Fort Nelson	BC	V0C 1R0	
Northern BC Truckers Association		<a href="http://www.bctrucking.com/services/locator.php?f=Trucking&amp;num=MC2320">http://www.bctrucking.com/services/locator.php?f=Trucking&amp;num=MC2320</a>	All	Gary Mcleod	250-782- 3330	<a href="mailto:nbcta@shawcable.com">nbcta@shawcable.com</a>	250-782- 9300	102-1445 102nd Ave	Dawson Creek	BC	V1G 2E1	

## Non-Government Agencies

Group Name	Division/ Branch	Source of Contact	Geographic area of Interest	Contact Person	Phone Number	Email address	Fax Number	Mailing Address	Community	Province/ State	Postal code/Zip Code	Country (other than Canada)
Northern BC Tourism Association		<a href="http://www.411.ca/business/British-Columbia/Prince-George/Northern-B-C-Tourism-Association/250086.html">http://www.411.ca/business/British-Columbia/Prince-George/Northern-B-C-Tourism-Association/250086.html</a>	All	N/A	250-561-0432	<a href="#">N/A</a>	N/A	1268 P 5th ave 303	Prince George	BC	V2L 3L2	

## Logging Contractors

Group Name	Division/B ranch	Source of Contact	Geographic area of Interest	Contact Person	Phone Number	Email address	Fax Number	Mailing Address	Community	Province/ State	Postal code/Zip Code	Country (other than Canada)
JE Sellors Contracting		BCTS	All	Jeremy Sellors	250-774-7133	<a href="mailto:jeremysellors@northwestel.net">jeremysellors@northwestel.net</a>	250-774-7550	Box 2109	Fort Nelson	BC	V0C 1R0	
Dean Trucking		BCTS	All	Gordon Dean	250-774-6148	N/A	N/A	BOX 234	Fort Nelson	BC	V0C 1R0	
Soles Salvage		BCTS	All	Danny Soles	250-774-1034	<a href="mailto:manysoles@northwestel.net">manysoles@northwestel.net</a>	250-774-1024	BOX 85	Fort Nelson	BC	V0C 1R0	
JAS Skidding		BCTS	All	Jean Turgeon	250-774-6110	N/A	N/A	Box 1610	Fort Nelson	BC	V0C 1R0	
Chan-Chas Logging		BCTS	All	Bave Bentham	250-774-7810	<a href="mailto:Chan-Chasenterprises@northwestel.net">Chan-Chasenterprises@northwestel.net</a>	250-774-3910	Box 3810	Fort Nelson	BC	V0C 1R0	
Pathway Contracting ltd.		Phonebook	All	Kelly Unruh	250-774-2951	N/A	N/A	Box 3509	Fort Nelson	BC	V0C 1R0	

Type	Report	Title	Date	Author	Location (path)	Ownership	Geographic location	Landscape Unit(s)	Mapsheet	Unit common name	Spatial / Non-spatial	Digital format	NAD	Resolution	Value
TEM	n	n/a	1998	Norecal, Dannies Moore	ftp://ftp.elp.gov.bc.ca/dist/arcwhse	MSRM	Vents/Smith	n/a	n/a	Vents/Smith	Spatial	Arc Info & IGDS	83 - Albers	Strategic	Descriptive
TEM	n	n/a	1998	Madrone	ftp://ftp.elp.gov.bc.ca/dist/arcwhse	MSRM	Dunedin/ Labiche/ Sandy	n/a	n/a	Dunedin/ Labiche/ Sandy	Spatial	Arc Info & IGDS	83 - Albers	Strategic	Descriptive
TEM	n	n/a	1998	Madrone	ftp://ftp.elp.gov.bc.ca/dist/arcwhse	MSRM	Snake / Sahtaneh	n/a	n/a	Snake / Sahtaneh	Spatial	Arc Info & IGDS	83 - Albers	Strategic	Descriptive
PEM	n	n/a	2003/2004	n/a	n/a	Slocan	Patry	n/a	n/a	Patry	Spatial	Arc Info & IGDS	83 - Albers	Strategic	Descriptive
PEM	n	n/a	2003/2004	n/a	n/a	Slocan	Sahtaneh	n/a	n/a	Sahtaneh	Spatial	Arc Info & IGDS	83 - Albers	Strategic	Descriptive
VRI	n	n/a	n/a	MSRM	ftp://ftp.elp.gov.bc.ca/dist/arcwhse	MSRM	Patry Lake	n/a	94N027 to 94N030, 94N037 to 94N040, 94O021 to 94O024, 94O031 to 94O034, 93O045 to 94O046, 94O056 to 94O057	Patry Lake	Spatial	Arc Info & IGDS	83 - UTM	Strategic	Descriptive
VRI	n	n/a	2000/2001	MSRM	ftp://ftp.elp.gov.bc.ca/dist/arcwhse	MSRM	Kledo/Dunedin	n/a	94J061, 94J062, 94J071, 94J072, 94J081, 94J082, 94J091, 94J092, 94K089, 94K090, 94K099, 94K100, 94N009, 94N010, 94K019, 94K020, 94O001, 94O002, 94O011	Kledo/Dunedin	Spatial	Arc Info & IGDS	83 - UTM	Strategic	Descriptive
VRI	n	n/a	1999/2000	MSRM	ftp://ftp.elp.gov.bc.ca/dist/arcwhse	MSRM	Etane	n/a	94O011, 94O012, 94O013, 94O002, 94O003, 94O021, 94O022, 94O023	Etane	Spatial	Arc Info & IGDS	83 - UTM	Strategic	Descriptive
VRI	n	n/a	2000/2001	MSRM	ftp://ftp.elp.gov.bc.ca/dist/arcwhse	MSRM	Muskwa	n/a	94J052 to 94J058, 94J063 to 94J067, 94J073 to 94J077, 94J083 to 94J087	Muskwa	Spatial	Arc Info & IGDS	83 - UTM	Strategic	Descriptive
VRI	n	n/a	2001	MSRM	ftp://ftp.elp.gov.bc.ca/dist/arcwhse	MSRM	Stanolind	n/a	94O013 to 94O018, 94O003, 94O004 to 94O010, 94J093 to 94J100, 94J087, 94J089, 94J078, 94J079, 94J068, 94J069	Stanolind	Spatial	Arc Info & IGDS	83 - UTM	Strategic	Descriptive
VRI	n	n/a	2000/2001	MSRM	ftp://ftp.elp.gov.bc.ca/dist/arcwhse	MSRM	Sahtaneh North	n/a	94O058, 94O059, 94O060, 94O050, 94O040, 94O030, 94O020, 94O010, 94P061, 94P062, 94P063, 94P064, 94P051 to 94P055, 94P041 to 94P045, 94P031 to 94P035, 94P025, 94P013, 94P014, 94P015, 94P004, 94P003, 94P005	Sahtaneh North	Spatial	Arc Info & IGDS	83 - UTM	Strategic	Descriptive
VRI	n	n/a	1999/2000	MSRM	ftp://ftp.elp.gov.bc.ca/dist/arcwhse	MSRM	Sahtaneh South	n/a	94O030, 94O020, 94O010, 94P021 to 94P025, 94P011 to 94P014, 94P001 to 94P005, 94I091 to 94I095, 94I082 to 94I084	Sahtaneh South	Spatial	Arc Info & IGDS	83 - UTM	Strategic	Descriptive
VRI	n	n/a	1999/2000	MSRM	ftp://ftp.elp.gov.bc.ca/dist/arcwhse	MSRM	Hoffard	n/a	94J059, 94J060, 94J069, 94J070, 94J079, 94J080, 94J089, 94J090, 94I041, 94I042, 94I043, 94I051, 94I052, 94I053, 94I061, 94I063, 94I071, 94I072, 94I073, 94I081	Hoffard	Spatial	Arc Info & IGDS	83 - UTM	Strategic	Descriptive



Type	Report	Title	Date	Author	Location (path)	Ownership	Geographic location	Landscape Unit(s)	Mapsheet	Unit common name	Spatial / Non-spatial	Digital format	NAD	Resolution	Value
VRI	n	n/a	2001/2002	MSRM	ftp://ftp.elp.gov.bc.ca/dist/arcwhse	MSRM	Kotcho	n/a	94I095, 94I083, 94I084, 94I085, 94I073, 94I074, 94I075, 94I063, 94I064, 94I065, 94I051, 94I052, 94I053, 94I054, 94I055, 94I041, 94I042, 94I043, 94I044, 94I031, 94I032, 94I033, 94I034, 94I021, 94I022, 94I023, 94I024, 94I011, 94I012, 94I002, 94J020, 94J030, 94J040	Kotcho	Spatial	Arc Info & IGDS	83 - UTM	Strategic	Descriptive
VRI	n	n/a	2001/2002	MSRM	ftp://ftp.elp.gov.bc.ca/dist/arcwhse	MSRM	Prophet North	n/a	94J042, 94J043, 94J044, 94J045, 94J046, 94J047, 94J048, 94J049, 94J050, 94J059, 94J060, 94J070, 94J033, 94J034, 94J035, 94J036, 94J037, 94J038, 94J039, 94J023, 94J024, 94J025, 94J026, 94J027, 94J028, 94J029	Prophet North	Spatial	Arc Info & IGDS	83 - UTM	Strategic	Descriptive
VRI	n	n/a	2001/2002	MSRM	ftp://ftp.elp.gov.bc.ca/dist/arcwhse	MSRM	Prophet South	n/a	94J013, 94J014, 94J015, 94J016, 94J017, 94J018, 94J019, 94J004, 94J005, 94J006, 94J007, 94J008, 94J009, 94J010, 94I001, 94H091, 94G094, 94G095, 94G096, 94G097, 94G098, 94G085, 94G086, 94G087, 94G088, 94G075, 94G076, 94G077, 94G065, 94G066	Prophet South	Spatial	Arc Info & IGDS	83 - UTM	Strategic	Descriptive
VRI	n	n/a	1999/2000	MSRM	ftp://ftp.elp.gov.bc.ca/dist/arcwhse	MSRM	Kiwigana	n/a	n/a	n/a	Spatial	Arc Info & IGDS	83 - UTM	Strategic	Descriptive
Visual Landscape Inventory	n	n/a		MoF PG Region	ftp://ftp.elp.gov.bc.ca/dist/arcwhse	MoF PG Region	Alaska Hwy	n/a	n/a	Alaska Hwy Corridor	Spatial	Arc Info & IGDS	83	Tactical	Descriptive
Visual Landscape Inventory	n	n/a		MoF PG Region	ftp://ftp.elp.gov.bc.ca/dist/arcwhse	MoF PG Region	Region Total	n/a	n/a	Region Total	Spatial	Arc Info & IGDS	83	Tactical	Descriptive
Visual Impact Assesment	y	Raspberry Creek Visual impact Assesment	2002	IFS	Slocan Hard copy files	Slocan	Blocks P3333, P3332, P3317, P3318, P3324	n/a	n/a	Raspberry Creek	Spatial	DEM	83	Tactical	Descriptive
Visual Impact Assesment	y	Steamboat Mountain	1997	IFS	Slocan Hard copy files	Slocan	P3337	n/a	n/a	Steamboat Mountain	Spatial	DEM	83	Tactical	Descriptive

Type	Report	Title	Date	Author	Location (path)	Ownership	Geographic location	Landscape Unit(s)	Mapsheet	Unit common name	Spatial / Non-spatial	Digital format	NAD	Resolution	Value
Pre-Tenure plans		Besa Prophet	2002		<a href="http://srmwww.gov.bc.ca/rmd/ecdev/mog/besa.htm">http://srmwww.gov.bc.ca/rmd/ecdev/mog/besa.htm</a>	MSRM	Muskwa-Kechika	n/a	n/a	Muskwa-Kechika	Non-Spatial	Web Page (HTM)	n/a	Tactical	Descriptive
Pre-Tenure plans		Upper Sikanni Management Plan	1995		<a href="http://srmwww.gov.bc.ca/rmd/ecdev/mog/docs/USMP%20Final%20Plan.pdf">http://srmwww.gov.bc.ca/rmd/ecdev/mog/docs/USMP%20Final%20Plan.pdf</a>	MSRM	Muskwa-Kechika	n/a	n/a	Muskwa-Kechika	Non-Spatial	pdf	n/a	Tactical	Descriptive
Muskwa-Kechika Conservation Area Design (CAD)	y	CAD	2004	MSRM	<a href="http://srmwww.gov.bc.ca/rmd/lrmp/mk">http://srmwww.gov.bc.ca/rmd/lrmp/mk</a>	MSRM	Muskwa-Kechika	n/a	n/a	Muskwa-Kechika	Non-Spatial	Word Document	n/a	Tactical	Descriptive
Recreation Management Plan	y	Muskwa-Kechika Management Area Recreation Management Plan	2001	BC MoF	<a href="http://srmwww.gov.bc.ca/rmd/lrmp/mk/mk0301/docs/Original%20Recreation%20Management%20Plan.doc">http://srmwww.gov.bc.ca/rmd/lrmp/mk/mk0301/docs/Original%20Recreation%20Management%20Plan.doc</a>	MSRM	Muskwa-Kechika	n/a	n/a	Muskwa-Kechika	Non-Spatial	Word Document	n/a	Tactical	Descriptive
Wildlife	y	Muskwa-Kechika Management Area Wildlife Management Plan Foundations For Management Direction	2001	Ministry of Environment, Lands and Parks	<a href="http://srmwww.gov.bc.ca/rmd/lrmp/mk/mk0301/docs/FndnsMgtDir.doc">http://srmwww.gov.bc.ca/rmd/lrmp/mk/mk0301/docs/FndnsMgtDir.doc</a>	MSRM	n/a	n/a	n/a	Muskwa-Kechika	Non-Spatial	Word Document	n/a	Tactical	Descriptive
Wildlife	y	VISION AND GUIDING PRINCIPLES FOR WILDLIFE MANAGEMENT IN THE MKMA	2001	Ministry of Environment, Lands and Parks	<a href="http://srmwww.gov.bc.ca/rmd/lrmp/mk/mk0301/docs/VisionGuidingPrinciplesNov1701.doc">http://srmwww.gov.bc.ca/rmd/lrmp/mk/mk0301/docs/VisionGuidingPrinciplesNov1701.doc</a>	MSRM	n/a	n/a	n/a	Muskwa-Kechika	Non-Spatial	Word Document	n/a	Tactical	Descriptive

Type	Report	Title	Date	Author	Location (path)	Ownership	Geographic location	Landscape Unit(s)	Mapsheet	Unit common name	Spatial / Non-spatial	Digital format	NAD	Resolution	Value
Wildlife	y	Muskwa-Kechika Wildlife Management Plan Issues	2001	Ministry of Environment, Lands and Parks	<a href="http://srmwww.gov.bc.ca/rmd/lrmp/mk/mk0301/docs/Issues01.doc">http://srmwww.gov.bc.ca/rmd/lrmp/mk/mk0301/docs/Issues01.doc</a>	MSRM	n/a	n/a	n/a	Muskwa-Kechika	Non-Spatial	Word Document	n/a	Tactical	Descriptive
Wildlife	y	Terms of Reference for the Muskwa-Kechika Wildlife Management Plan	2001	Ministry of Environment, Lands and Parks	<a href="http://srmwww.gov.bc.ca/rmd/lrmp/mk/mk0301/docs/MKWMPTORFin.Doc">http://srmwww.gov.bc.ca/rmd/lrmp/mk/mk0301/docs/MKWMPTORFin.Doc</a>	MSRM	n/a	n/a	n/a	Muskwa-Kechika	Non-Spatial	Word Document	n/a	Tactical	Descriptive
Type	Report	Title	Date	Author	Location (path)	Ownership	Geographic location	Landscape Unit(s)	Mapsheet	Unit common name	Spatial / Non-spatial	Digital format	NAD	Resolution	Value
Wildlife	y	Muskwa-Kechika Wildlife Management Plan (DRAFT)	2003	Ministry of Water, Land and Air Protection	<a href="http://srmwww.gov.bc.ca/rmd/lrmp/mk/mk0301/docs/muskwa-kechika_wildlife_management_plan_jan29_2003.pdf">http://srmwww.gov.bc.ca/rmd/lrmp/mk/mk0301/docs/muskwa-kechika_wildlife_management_plan_jan29_2003.pdf</a>	MSRM	n/a	n/a	n/a	Muskwa-Kechika	Non-Spatial	Word Document	n/a	Tactical	Descriptive
Minning Claims Inventory	y	Mineral Exploration and Mine Development	1997	Ministry of Sustainable Resource Management	<a href="http://srmwww.gov.bc.ca/rmd/lrmp/mk/mining.htm">http://srmwww.gov.bc.ca/rmd/lrmp/mk/mining.htm</a>	MSRM	PG Region	n/a	n/a	PG Region	Spatial	ArclInfo & IGDS	83 - Albers	Tactical	Descriptive
Range Burns/Uses Inventory	n	n/a	1997	Ministry of Sustainable Resource Management	<a href="http://srmwww.gov.bc.ca/rmd/lrmp/mk/mining.htm">http://srmwww.gov.bc.ca/rmd/lrmp/mk/mining.htm</a>	MSRM	PG Region	n/a	n/a	PG Region	Spatial	ArclInfo & IGDS	83 - Albers	Strategic	Quantitative (disturbance)
Seismic Activity	n	n/a	1997	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Strategic	Quantitative (disturbance)
Landscape Units	n	n/a		Ministry of Sustainable Resource Management	<a href="http://srmwww.gov.bc.ca/rmd/lrmp/mk/mining.htm">http://srmwww.gov.bc.ca/rmd/lrmp/mk/mining.htm</a>	MSRM	PG Region	n/a	n/a	PG Region	Spatial	ArclInfo & IGDS	83 - Albers	Strategic	Descriptive

Type	Report	Title	Date	Author	Location (path)	Ownership	Geographic location	Landscape Unit(s)	Mapsheet	Unit common name	Spatial / Non-spatial	Digital format	NAD	Resolution	Value
Fort Nelson LRMP - Management Plan	y		1997	Ministry of Sustainable Resource Management	<a href="http://srmwww.gov.bc.ca/rmd/lrmp/frtnelsn/toc.htm">http://srmwww.gov.bc.ca/rmd/lrmp/frtnelsn/toc.htm</a>	MSRM	PG Region	n/a	n/a	PG Region	Spatial	ArcInfo & IGDS	83 - Albers	Strategic	Descriptive
Fort Nelson LRMP Management Zone layers	n	n/a	1997	Ministry of Sustainable Resource Management	<a href="ftp://ftp.env.gov.bc.ca/dist/rmd/landuse/lrmp/ftnelson/">ftp://ftp.env.gov.bc.ca/dist/rmd/landuse/lrmp/ftnelson/</a>	MSRM	PG Region	n/a	n/a	PG Region	Spatial	ArcInfo & IGDS	83 - Albers	Strategic	Descriptive
NDT/NDU	y	Natural Disturbance Units of the Prince George Forest Region: Guidance for Sustainable Forest Management	2002	Craig Delong	Data CD	MSRM	PG Region	n/a	n/a	PG Region	Spatial	ArcInfo & IGDS	83 - Albers	Strategic	Descriptive
Forest Management Activity history	n	n/a	2000	Slocan	Slocan development plans and MLSIS information	Slocan	Fort Nelson	n/a	n/a	Fort Nelson	Spatial	IGDS	83	Operational	Quantitative (disturbance)

CANFOR	Standard areas	Riparian areas	Visually sensitive areas	Other sensitive areas	Salvage Areas
<b>Silviculture</b>					
<b>Planting</b>	<b>Planting density:</b> 1600 sph, <b>Stock Type:</b> 415B or larger	<b>Planting density:</b> 1800 sph, <b>Stock Type:</b> 415B or larger	<b>Planting density:</b> as per standard or riparian areas. <b>Stock Type:</b> 415B or larger	<b>Planting density:</b> as per standard or riparian areas. <b>Stock Type:</b> 415B or larger	<b>Planting density:</b> as per standard or riparian areas. <b>Stock Type:</b> 415B or larger
<b>Site Preparation</b>	<b>Site Prep type:</b> trailing, windrowing, mounding <b>Equip type:</b> CAT or hoe mound <b>Reason :</b> Cat: Windrowing and/or trailing to increase plantability and reduce slash load, retardation of upcoming brush competition.  Hoe mound: To prepare for suitable planting ground on wet sites. Conifers on elevated micro-sites get a head start to surrounding competition.	As per Standard Areas.  <b>Reason:</b> we keep a 5 m machine free zone. Occasionally, mounds are created within 5 m of creek as the tracks do not enter and compact soil adjacent to creek. Mounding becomes often the only option to create suitable elevated micro-sites and to control brush competition, as no herbicide is allowed in pesticide free zones.	As per Standard Areas.  Note: Buffers along highway corridors ensure no visibility of treatment as per harvesting guidelines (conventional harvesting in visual sensitive areas).	As per Standard Areas.	As per Standard Areas.
<b>Brushing</b>	<b>Brushing type:</b> broadcast aerial herbicide application with Vision; backpack herbicide; manual brushing with power-saw/brush-saw  <b>Controlled species:</b> deciduous species in conifer blocks (At, Ac, Ep), alder, willow, rose, highbush cranberry, grass  Manual brushing: If shrubs are not directly competing with target species, direction is to leave those to provide cover and forage for wildlife.	<b>Brushing type:</b> Manual Brushing and Weeding within Pesticide Free Zones.  <b>Controlled species:</b> Deciduous species (At, Ac, Ep), willow, alder, rose  If shrubs are not directly competing with target species, direction is to leave those to increase biodiversity, cover and forage for wildlife	<b>Brushing type:</b> spot treatment with ground based herbicide application.  <b>Controlled species:</b> Leave trees, avoiding of cutting not competing vegetation, spot treatment with ground based herbicide application.	As per Standard Areas.	As per Standard Areas.
<b>Juvenile Spacing</b>	Due to the growing conditions, planting densities, species composition and the enormous effect of brush leading to some mortality, Canfor's openings grow into free growing stands that are not overstocked and dense. Juvenile spacing is not a necessity to reduce stocking below the maximum stems per hectare as specified in site plans.				

## Appendix 1.3: Practices Analysis

### 1. Practices Matrix Canfor

CANFOR	Standard areas	Riparian areas	Visually sensitive areas	Other sensitive areas	Salvage Areas
<b>Harvesting</b>					
<b>Cable</b>	Due to flat terrain there is no cable logging done presently in the DFA				
<b>Conventional</b>	<p><b>Equip type:</b> buncher, skidder, processor  <b>Slopes:</b> 0 –35%  <b>Block size:</b> The distribution of block sizes will be planned on a landscape level, and will be based on known information on natural patch size distributions. Blocks will be planned to maintain the connectivity of large patches of desired types.                      All proposed cutblocks are in Natural Disturbance Type 3 (NDT3).</p>	As per Standard Areas.	<p>As per Standard Areas.                       In addition there are operations proposed in the plan that will use hand falling and horse skidding. These blocks are primarily located along the Alaska Highway corridor and are being used to help manage the visual resource.</p>	<p><b>Equip type:</b> low ground pressure (LGP) equipment, , LGP hoe forwarding, horse logging, and techniques, such as designated skid trails, and the use of landings, (versus roadside).  <b>Slopes:</b> as per standard areas.  <b>Block size:</b> as per standard areas.</p>	<p><b>Equip type:</b> as per standard areas.  <b>Slopes:</b> as per standard areas  <b>Block size:</b> as per standard areas unless Forest Health and deemed emergency.</p>
<b>Retention Strategy</b>	<p><b>Retention Strategies:</b> Wildlife tree patches and retention are set by the “Provincial Wildlife Tree Policy and Management Recommendations”.                      In addition, wildlife tree retention targets have been established for the “Fort Nelson Forest District Landscape Unit Planning Strategy, Determination of Draft Biodiversity Emphasis Options”. Canfor has committed to following the above policy and strategy in regard to wildlife tree retention.</p>	<p><b>Retention Strategies:</b> Site specific decisions must be made regarding the appropriate level of retention within riparian management zones and the types of trees to be retained.” (<i>Riparian Management Area Guidebook, December 1995</i>).                      Block specific strategies are addressed in the Silviculture Prescription.</p>	<p>As per Standard Areas, and Riparian Areas.                       Proposed blocks within ‘known’ or proposed scenic areas with established or proposed visual quality objectives will have visual impact assessments completed and management strategies developed and submitted with silviculture prescriptions/site plans.</p>	As per Standard Areas, and Riparian Areas.	<p>As per Standard Areas, and Riparian Areas. If it is Forest Health and deemed emergency this may impact the level of retention.</p>
<b>Salvage</b>	<p><b>Equip type:</b> as per Conventional Harvesting  <b>Slopes:</b> as per Conventional Harvesting  <b>Block size:</b> variable, with direction received from the District Manager  <b>Retention strategy:</b> As per Conventional Harvesting, unless the salvage will not allow for retention (i.e. forest health issues)</p>				

CANFOR	Standard areas	Riparian areas	Visually sensitive areas	Other sensitive areas	Salvage Areas
<b>Road Construction</b>					
<b>Main Road</b>	<p><b>Standard:</b> One-season Winter: 6-10 meter surface 10-20 meter cleared right-of-way</p> <p>Dry weather Road: 6-10 meter surface 20-30 meter cleared right-of-way</p>	<p><b>Standard:</b> One-season Winter: 6-8 meter surface 10-15 meter cleared right-of-way</p> <p>Dry weather Road: 6-10 meter surface 20-25 meter cleared right-of-way</p>	<p><b>Standard:</b> One-season Winter: 6-8 meter surface 10-15 meter cleared right-of-way</p> <p>Dry weather Road: 6-8 meter surface 20-25 meter cleared right-of-way</p>	<p><b>Standard:</b> As per Visually Sensitive Areas</p>	<p><b>Standard:</b> As per Standard Areas.</p>
<b>In Block Roads</b>	<b>Standard:</b> 6 meter temporary road				
<b>Sediment Control</b>	<b>Type:</b> Waterbars, Cross Ditches, Ditch blocks, Rip Rap, Silt fences, Straw bales, Coco mats, grass seed				
<b>Stream Crossing</b>	<b>Type:</b> Temporary and permanent bridges, round and log culverts, log/snowfill, snowfill Ice and snow bridges Use the (below listed) summer and winter stream crossing matrices for all areas.				
<b>Rehabilitation</b>					
<b>Road Deactivation</b>	<p><b>Temporary:</b> waterbars, cross ditches, removal of stream crossing structures</p> <p>Semi-permanent: waterbars, cross ditches, removal of steam crossing structures, and grass seed cuts</p> <p>Permanent: recontour, waterbars, cross ditches, removal of stream crossing structures, and grass seed cuts</p>				
<b>Stream Rehab</b>	Stream Rehab is done on only those streams that have caused problems. The following tools are used for the Rehab: Recontour, Coco mats, grass mats, Grass seed				

Table 1 Stream Crossing Matrix – Summer Construction (Dry and All weather road construction)

Riparian Class	S1	S2	S3	S4	S5 (no fish)	S6 (no fish)
Stream Width	>20m	>5-20m	1.5-5m	<1.5m	>3m	<3m
Road Stream Crossings						
Clear Span Bridge	Yes	Yes	Yes	Yes	Yes	Yes
Bottomless Log Bridge	No	No	Maybe <sup>a</sup>	Maybe <sup>a</sup>	Yes	Yes
Open Bottomed Culvert	No	No	Yes	Yes	N/A	N/A
Culvert – temporary (Q50)	No	No	No	Maybe <sup>a</sup>	Yes	Yes
Culvert – permanent (Q100)	No	No	No	Maybe <sup>a</sup>	Yes	Yes
Embedded culverts	No	No	Maybe <sup>a</sup>	Yes	N/A	N/A

<sup>a</sup> – Site Specific, approval is required by Designated Environment Official (DEO).

Stream Crossing Matrix – Winter Construction (snow and ice roads)

Riparian Class	S1	S2	S3	S4	S5 (no fish)	S6 (no fish)
Stream Width	>20m	>5-20m	1.5-5m	<1.5m	>3m	<3m
Road Stream Crossings						
Permanent or Temporary Bridge	Yes	Yes	Yes	Yes	Yes	Yes
Ice Bridge – Heavy Loads	Yes	Yes <sup>1</sup>	Maybe <sup>4</sup>	No	N/A	N/A
Ice Bridge – Light Loads <sup>2</sup>	Yes	Yes	Maybe <sup>4</sup>	N/A	Yes	N/A
Snowfill (with pipe <sup>3</sup> )	No	No	No	Yes	Yes	Yes
Snowfill (with logs <sup>5</sup> )	No	No	Maybe <sup>4</sup>	Yes	Yes	Yes
Snowfill (no pipe culvert – no flow)	No	No	Maybe <sup>4</sup>	Yes	Yes	Yes
Temporary Pipe/culvert with earthfill	N/A	No	No	No	Maybe <sup>4</sup>	Yes

<sup>1</sup> – Only if depth >1meter; width >15meters and winter mean daily flow >0.5m<sup>3</sup>.sec

<sup>2</sup> – Light Loads = not greater than one tonne.

<sup>3</sup> – If stream is flowing

<sup>4</sup> – Site specific approval required (not first option)

<sup>5</sup> – Only permitted if stream will likely freeze off completely prior to start of hauling.



2. Practice Matrix BCTS

BCTS	Standard areas	Riparian areas	Visually sensitive areas	Other sensitive areas	Salvage Areas
<b>Harvesting</b>					
<b>Cable</b>	Due to flat terrain there is no cable logging in the DFA				
<b>Conventional</b>	<p><b>Equip type:</b> buncher, skidder, processor  <b>Slopes:</b> 0–35%  <b>Block size:</b> Based on Biodiversity Guidebook block size categories (table follows)</p>	As per Standard Areas.	As per Standard Areas.	<p><b>Equip type:</b> low ground pressure (LGP) equipment, cable harvesting, LGP hoe forwarding, horse logging, and techniques, such as designated skid trails, and the use of landings, (versus roadside).  <b>Slopes:</b> as per Standard Areas.  <b>Block size:</b> as per Standard Areas.</p>	<p><b>Equip type:</b> as per Standard Areas.  <b>Slopes:</b> as per Standard Areas.  <b>Block size:</b> as per standard areas unless Forest Health and deemed emergency.</p>
<b>Retention Strategy</b>	<p><b>Retention Strategies:</b></p> <ul style="list-style-type: none"> <li>the retention of single green trees, eclectic pattern throughout the cut area (i.e. 1 per hectare).</li> <li>wildlife tree patches (small and large), percentage retained as recommended by Landscape Unit (3-11%).</li> <li>stubbed snags, cut at 3-5 m (use green trees where snags not available, 1/ha)</li> <li>understory retention, retained in patches or singly. Where high quality and high numbers of spruce understory exist use strategy to ensure retained spruce understory is windfirm (i.e. shelterwood).</li> <li>retention of some brush species,</li> <li>vegetation management strategies that retain some cover (spatial/temporal), and</li> <li>maintenance of tree species mixtures.</li> </ul>	<p><b>Retention Strategies:</b> general objectives for the RMZ are:</p> <p>Where there is a reserve zone:</p> <ul style="list-style-type: none"> <li>reduce the risk of windthrow to the reserve zone</li> <li>retain important wildlife habitat attributes including wildlife trees, large trees, hiding and resting cover, nesting sites, structural diversity, coarse woody debris, and food sources.</li> </ul> <p>Where there is no reserve zone:</p> <ul style="list-style-type: none"> <li>retain sufficient vegetation along streams to provide shade, maintain natural channel and bank stability and, where specified, maintain important wildlife habitat values.</li> </ul> <p>Specified minimum RMA slope distances for stream riparian classes and Maximum overall levels of basal</p>	As per Standard Areas, and Riparian Areas mostly apply as well.  Proposed blocks within 'known' or proposed scenic areas with established or proposed visual quality objectives will have visual impact assessments completed and management strategies developed and submitted with silviculture prescriptions/site plans. Individual green wildlife trees will also be retained in visually sensitive areas and important wildlife areas	As per Standard Areas and Riparian Areas	As per Standard Areas and Riparian Areas unless forest health concern and deemed emergency.

BCTS	Standard areas	Riparian areas	Visually sensitive areas	Other sensitive areas	Salvage Areas
		area retention within the riparian management zone for each riparian class of stream, wetland and lake. Table listed below.			
<b>Salvage</b>	Where a salvage area occurs within the Fort Nelson BCTS area and it is economical to harvest timber in this area (i.e. sell the wood), BCTS will conduct operations as per conventional unless the nature of the salvage deems otherwise (i.e. forest health concern, therefore no mature tree retention or understory retention).				
	<b>Equip type:</b> as per Conventional Standard Areas <b>Slopes:</b> as per Conventional Standard Areas <b>Block size:</b> as per Conventional Standard Areas <b>Retention strategy:</b> as per Conventional Standard Areas				

BCTS	Standard areas	Riparian areas	Visually sensitive areas	Other sensitive areas	Salvage Areas
<b>Silviculture</b>					
<b>Planting</b>	<b>Planting density:</b> 1600 sph <b>Stock Type:</b> Spring or summer 415 A or B's	<b>Planting density:</b> 1800 sph <b>Stock Type:</b> Large stock	As per Standard Areas.	As per Standard Areas.	As per Standard Areas.
<b>Site Preparation</b>	<b>Site Prep type:</b> Trailing, windrowing, mounding (typically restricted to winter ground)  <b>Equip type:</b> cat, hoe (mounding) <b>Reason:</b> windrowing and trailing to reduce slash load, increase plantable spots and slow upcoming brush competition. Mounding to create elevated planting sites on cold/wet ground, helps seedlings compete with surrounding brush competition.	As per Standard Areas.  No equipment within 5 metre machine free zone on all classified streams, otherwise as per standard areas.	As per Standard Areas, excluding any required buffers from Visual Impact Assessment	As per Standard Areas, but soil conditions a limiting factor if a sensitive soil area	As per Standard Areas.
<b>Brushing</b>	<b>Brushing type:</b> Broadcast aerial herbicide (Vision), backpack herbicide application (Vision), basal bark application (Release), manual brushing power saw/brush saw.  <b>Controlled species:</b> Broadcast aerial herbicide (Vision), backpack herbicide application (Vision), basal bark application (Release), manual brushing power saw/brush saw.	<b>Brushing type:</b> manual brushing power saws/brush saws (pesticide free zone)  <b>Controlled species:</b> as per Standard Areas	<b>Brushing type:</b> As per Standard Areas, leaving buffers where required, or using spot treatment  <b>Controlled species:</b> as per Standard Areas	As per Visually Sensitive Areas.	As per Standard Areas.
<b>Juvenile Spacing</b>	Juvenile spacing is not required due to growing conditions found in the Fort Nelson Forest District.				

BCTS	Standard areas	Riparian areas	Visually sensitive areas	Other sensitive areas	Salvage Areas
<b>Road Construction</b>					
<b>Main Road</b>	<b>Standard:</b> utilize existing seismic wherever possible. Primarily winter road construction, blading and freezing in. Primarily utilize Canfor main roads (through the use road use agreements). Running surface of main access roads is 10 metres.	As per Standard Areas, or regulations.	Locate as per Visual Impact Assessment recommendations. Otherwise as per Standard Areas.	As per Standard Areas, or regulations.	As per Standard Areas
<b>In Block Roads</b>	<b>Standard:</b> utilize seismic wherever possible. Running surface width of 7 metres.	As per Standard Areas, or regulations.	Locate as per Visual Impact Assessment recommendations. Otherwise as per Standard Areas.	As per Standard Areas, or regulations.	As per Standard Areas
<b>Sediment Control</b>	<b>Type:</b> remove temporary winter crossing structures prior to spring freshet (no later than March 15). Summer temporary crossings are to be removed as soon as possible or remain if approved by WLAP. For seasonal bridge installation, where appropriate, abutment walls lined with geotextile will be erected to prevent approach fills from sloughing into streams.				
<b>Stream Crossing</b>	Use the (below listed) summer and winter stream crossing matrices for all areas				
<b>Rehabilitation</b>					
<b>Road Deactivation</b>	All roads will be permanently deactivated after final harvest such that the only vehicle access will be by all-terrain vehicle. Temporary roads are ripped and have strippings put back on the road.				
<b>Stream Rehab</b>	May be required where crossings are removed. Re-contour stream banks to their pre-crossing condition.				

BIODIVERSITY GUIDEBOOK BLOCK SIZE CATEGORIES

Clearcuts Only				
Block Size (ha)	% Representation by Area	Average Block Size (ha)	Percent of Blocks	Number of Blocks
< 40	28.9	25.4	53.8	43
40-250	52.9	57.0	43.8	35
250-1000	18.2	343.3	2.5	2

Patch Size

With Partial Cuts Included				
Block Size (ha)	% Representation by Area	Average Block Size (ha)	Percent of Blocks	Number of Blocks
< 40	26.7	25.5	53.9	48
40-250	49.6	59.8	42.7	38
250-1000	23.7	362.2	3.4	3

Riparian class	*	Average channel width (m)	Reserve zone width (m)	Management zone width (m)	Total RMA width (m)	Range of Basal Area Retention(%)
S1 large rivers	<b>F</b>	>100	0	100	100	10-50
S1 (except large rivers)	<b>F</b>	>20	50	20	70	10-50
S2	<b>F</b>	>5<20	30	20	50	10-50
S3	<b>F</b>	1.5<5	20	20	40	10-50
S4	<b>F</b>	<1.5	0	30	30	0-25
S5	<b>N</b>	>3	0	30	30	0-25
S6	<b>N</b>	<3	0	20	20	0-25
Wetlands						0-25
Lakes						0-25
* <b>F</b> Fish stream or community watershed						
* <b>N</b> Not fish stream and not in community watershed						

The basal area retention levels are intended to be applied on a landscape or sub-landscape level, not on an individual cutblock. Site-specific implementation of the best management practices should ensure that the overall retention does not exceed the maximum levels specified.

For the purposes of the forest development plan, non-inventoried streams, will default to S4, and the basal area retention will be applied as such.

The minimum strategy for non-classified drainage's, gullies and wet areas are:

- flag and maintain a 5-m machine exclusion zone
- retain non-merchantable conifer trees, understorey deciduous trees, shrubs, and herbaceous vegetation within 5 m to the fullest extent practicable

In many instances with winter logging, these will be snow-filled crossings. These will be removed promptly after logging to prevent an ice dam from forming and fine woody debris from entering the area.

Summer Stream Crossing - Planning Matrix

Riparian Class	S1	S2	S3	S4	S5 (no fish)	S6 (no fish)
Width	>20m	>5-20m	1.5-5m	<1.5m	>3m	<3m
Temporary bridge (w/o instream work)	Yes	Yes	Yes	Yes	Yes	Yes
Temporary bridge (w instream work)	Yes (*1*)	Yes (*2*)	Yes (*2*)	Yes (*2*)	Yes (*3*)	Yes
Seasonal (*4*) bridge (w/o instream work)	No	Maybe (*1*)	Yes	Yes	Yes	Yes
Seasonal (*4*) bridge (w instream work)	No	Maybe (*2*)	Maybe (*2*)	Maybe (*2*)	Yes (*3*)	Yes (*3*)
Engineering culvert with earthfill	n/a	No	Maybe (*2*)	Maybe (*2*)	Yes (*3*)	Yes (*3*)
Culverts <2,000 mm	n/a	n/a	n/a	Yes (*3*)	Yes	Yes
Ford	No	No	Yes (*5*)	Yes (*5*)	Yes (*5*)	Yes (*5*)
*1* - site specific approval required						
*2* - site specific approval and engineering required including type of structure and timing of construction						
*3* - instream work may be restricted to specific time period						
*4* - clear span, no approaches within the stream channel, monitored/removed at high flows						
*5* - light (LGP, pick-up or less) traffic only; prior approval for LGP in S4						
Note: instream work does not include fords.						

Winter Stream Crossing – Planning Matrix

Riparian Class	S1	S2	S3	S4	S5 (no fish)	S6 (no fish)
Stream Width	>20m	>5-20m	1.5-5m	<1.5m	>3m	<3m
Temporary or Seasonal Clear Span Bridge	Yes	Yes	Yes	Yes	Yes	Yes
Seasonal Bridge (with instream work)	Yes (*4*)	Yes (*4*)	Yes (*4*)	n/a	Yes (*4*)	n/a
Ice Bridge – Heavy Loads	Yes	Yes (*1*)	No	No	n/a	n/a
Ice Bridge – Light Loads (*2*)	Yes	Yes	Maybe (*4*)	n/a	Yes	n/a
Snowfill (with pipe *3*)	n/a	No	No	Maybe (*4*)	Yes	Yes
Snowfill (no pipe, no flow)	n/a	No	No	Yes	Yes	Yes
Temporary Pipe/culvert with earthfill	n/a	No	No	Maybe (*4*)	Maybe (*4*)	Yes
*1* - if depth >1 metre and winter mean daily flows >0.5 m <sup>3</sup> /sec						
*2* - weight restriction. 1 ton or less. For heavier loads, special approval is required from the BCTS engineering supervisor.						
*3* - if stream flow						
*4* - site specific approval required, not first option						
Note: instream work does not include fording for construction purposes.						

**Canadian Forest Products Ltd.**

**Fort Nelson Timber Supply Area**



**FOREST STEWARDSHIP PLAN - 2006**

*October 30, 2006*

*Revised February 8, 2007*

*Revised February 17, 2007*

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## 1 INTERPRETATION

### 1.1 Definition of terms contained within this Forest Stewardship Plan:

“**Archaeological resources**” means consisting of the physical remains of past human activity.

“**Agreements**” means the Forest License and Pulpwood Agreement listed in Table 1.

“**Agreement holder**” means the company listed in Table 1.

“**Commencement of Term**” means the date the Term of this FSP begins, as specified in Paragraph 2.3.

“**FDU**” means a Forest Development Unit as defined in the Forest Planning and Practices Regulation.

“**FPC**” means the Forest Practices Code of British Columbia Act RSBC 1996, c 159.

“**FPPR**” means the Forest Planning and Practices Regulation BC. Reg. 14/2004 consolidated to November 24, 2005.

“**FRPA**” means the *Forest and Range Practices Act*. SBC, 2002 consolidated to November 24, 2005.

“**FSP**” means this Forest Stewardship Plan.

“**Non-archaeological resources**” means a site or the location of a traditional societal practice that is of historical or cultural significance to BC, a community or an aboriginal people.

“**Survival**” (of a species) means the continuation of life or existence of a species not individuals.

“**Term**” means the period specified in Paragraph 2.2.

1.2 In this FSP, the singular includes the plural and the plural includes the singular, unless the context indicates otherwise.

1.3 Unless otherwise expressly indicated, or indicated by context, terms used in this FSP have the definition given them, as of the Date of Submission, in FRPA and the Forest Act and the regulations under them.

1.4 The agreement holder is responsible for achieving the results, carrying out the strategies, meeting the stocking requirements or implementing the measures in this FSP, that pertain to the forest practices of the agreement holder.

1.5 *Deleted February 17, 2007.*

## 2 DATE OF SUBMISSION, COMMENCEMENT OF TERM & TERM OF THE FSP

2.1 The date of submission of this Forest Stewardship Plan is October 30, 2006.

2.2 The Term of this FSP will be 5 years from the Commencement of Term.

2.3 The Commencement of Term for this FSP is the date of approval of this FSP.

### 3 APPLICATION OF THE FOREST STEWARDSHIP PLAN

This FSP applies to the Agreement Holder and Agreements indicated in Table 1 below.

**Table 1. Agreement Holder and Agreements**

Agreement Holder	Agreement
Canadian Forest Products Ltd.	Forest Licence (FL) A17007
Canadian Forest Products Ltd.	Pulpwood Agreement (PA) #14

For the purposes of section 197 (4), (5), and (7) of the FRPA,

- (a) The results, strategies, measures and stocking requirements of this FSP do not apply to the agreement holders' cutblock if
  - i. The cutblock is subject to a cutting authority that was issued before the Date of Commencement of this FSP. *Revised February 17, 2007.*
- (b) The results, strategies and measures of this FSP do not apply to each road that is the subject of a road permit (RP) granted to an Agreement Holder if the road permit was granted before the approval of this FSP, and is still in effect on the Commencement of Term of this FSP.
- (c) The stocking standards in this FSP apply to all cutblocks if the cutblock is the subject of a site plan prepared on or after December 17, 2002. *Revised February 17, 2007.*
- (d) The Chief Forester Standards for Seed Use will be used for all blocks planted after April 1, 2006.

### 4 IDENTIFYING FOREST DEVELOPMENT UNITS

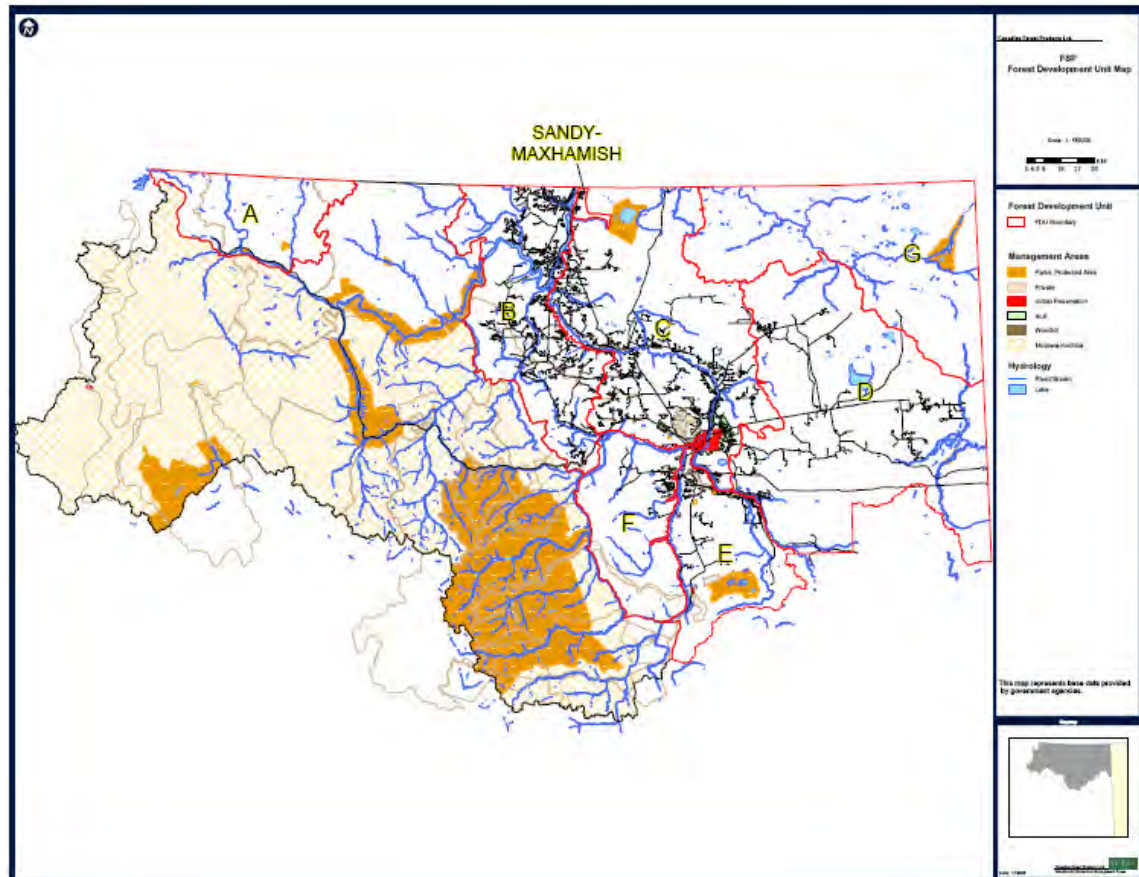
There are no forest development units in effect as of the Date of Submission of this FSP.

Table 2 lists the new forest development units (FDU) identified within this FSP. Figure 1. depicts the location of each FDU within the Fort Nelson Forest District.

**Table 2. Forest Development Units**

FDU Name	Agreement Holder	Agreement
<b>A</b>	Canadian Forest Products Ltd.	FL A17007
<b>B</b>	Canadian Forest Products Ltd.	FL A17007, PA #14
<b>C</b>	Canadian Forest Products Ltd.	FL A17007, PA #14
<b>D</b>	Canadian Forest Products Ltd.	FL A17007, PA #14
<b>E</b>	Canadian Forest Products Ltd.	FL A17007, PA #14
<b>F</b>	Canadian Forest Products Ltd.	FL A17007, PA #14
<b>G</b>	Canadian Forest Products Ltd.	FL A17007, PA #14
<b>Sandy/Maxhamish Subzone</b>	Canadian Forest Products Ltd.	FL A17007, PA #14

**Figure 1. FSP Forest Development Unit Map for FL A17007 and PA #14.**



The following areas, as indicated on the FSP content maps (1:50,000 scale), are included within the FDU's and are considered to have received the Minister's approval under the FRPA: areas referred to in section 196 (1) of the FRPA; areas referred to in section 196 (2) of the FRPA; cutting authorities and road permits.

The maps included in this FSP show the location of the following items that were in effect on the Date of Submission:

- (a) Ungulate winter range areas, wildlife habitat areas, fisheries sensitive watersheds, lakeshore management zones, scenic areas, L1 lakes, community watersheds, old growth management areas, areas where commercial timber harvesting is prohibited by an enactment.
- (b) The areas subject to an Agreement Holder's cutting authorities or a road permit; as indicated on the FSP maps (1:50,000 scale).

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## 5 RESULTS AND STRATEGIES

The holder of this FSP commits to the following results and strategies within the FDU's identified within this FSP.

### 5.1 Provincial Non-Spatial Old Growth Objective

*Legal Reference:* Order Establishing Provincial Non-Spatial Old Growth Objectives, June 30, 2004.

To contribute to the conservation of biodiversity, the holder of this FSP commits to the following results and strategies, which relate to the Order Establishing Provincial Non-Spatial Old Growth Objectives and apply to the FDU's managed by Canfor under this FSP:

- (a) Subject to subparagraph (b), the holder of this FSP will act in a manner consistent with maintaining at least the minimum target percent old forest shown in Tables 3 & 4 below, for the landscape unit biogeoclimatic ecosystem classification (BEC) variants in the applicable FDUs;
- (b) In those landscape unit BEC variants that are or become, on or after the date of submission of this FSP, deficient in attaining the old forest target percent (see Tables 3 & 4) the holder of this FSP will not apply for new cutting authorities, until:
  - i. the landscape unit BEC variant has achieved the minimum target percent old forest, or
  - ii. a recruitment strategy identifying that the balance of the old forest target percent will be made up of recruitment stands of intermediate and/or mature aged forest, has been submitted by the holder of this FSP to the appropriate government agencies responsible for administering the Order Establishing Provincial Non-Spatial Old Growth Objectives.

#### 5.1.1 The holder of this FSP will provide an analysis that is deemed acceptable by the appropriate government agency, at a minimum:

- (a) once per calendar year post-harvest; or
- (b) prior to, or concurrently with, any minor amendments to the FSP that entail the declaration of any area(s) as per section 14(4) of the FPPR. *Revised February 17, 2007*

These results and strategies are applicable to all FDU's within this FSP.

Map Reference: Landscape Unit/FDU Overview Map.

**Table 3. Low Biodiversity Emphasis Landscape Units**

Landscape Unit	LU #	BEO (Biodiversity Emphasis Option)	NDT	BEC Subzones and Variants	Seral Stage (Years)	Target %	Recruitment Applies				
July Lake	1	Low	3	BWBS conifer	Old>140	> 11%	Yes				
				BWBS deciduous	Old>100	> 13%	No				
Shekilie	2	Low	3	BWBS conifer	Old>140	> 11%	No				
				BWBS deciduous	Old>100	> 13%	No				
Kyklo	4	Low	3	BWBS conifer	Old>140	> 11%	No				
				BWBS deciduous	Old>100	> 13%	Yes				
Hossitt	6	Low	3	BWBS conifer	Old>140	> 11%	No				
				BWBS deciduous	Old>100	> 13%	Yes				
Dilly	8	Low	3	BWBS conifer	Old>140	> 11%	No				
				BWBS deciduous	Old>100	> 13%	No				
Sahtaneh	9	Low	3	BWBS conifer	Old>140	> 11%	No				
				BWBS deciduous	Old>100	> 13%	Yes				
Elleh	11	Low	3	BWBS conifer	Old>140	> 11%	Yes				
				BWBS deciduous	Old>100	> 13%	Yes				
Eskai	12	Low	3	BWBS conifer	Old>140	> 11%	Yes				
				BWBS deciduous	Old>100	> 13%	No				
D Easum	17	Low	3	BWBS conifer	Old>140	> 11%	No				
				BWBS deciduous	Old>100	> 13%	No				
Stanolind	22	Low	3	BWBS conifer	Old>140	> 11%	Yes				
				BWBS deciduous	Old>100	> 13%	No				
Pouce	23	Low	3	BWBS conifer	Old>140	> 11%	Yes				
				BWBS deciduous	Old>100	> 13%	No				
Holden	26	Low	3	BWBS conifer	Old>140	> 11%	No				
			2	BWBS deciduous	Old>100	> 13%	No				
Jackknife	27	Low	3	SWB	Old>250	>9	Yes				
				BWBS conifer	Old>140	> 11%	Yes				
Bunch	31	Low	3	BWBS conifer	Old>140	> 11%	Yes				
				BWBS deciduous	Old>100	> 13%	Yes				
Fort Nelson River B	66	Low	3	SWB	Old>250	>9	Yes				
				BWBS conifer	Old>140	> 11%	Yes				
Fort Nelson River A	67	Low	3	BWBS conifer	Old>140	> 11%	Yes				
				BWBS deciduous	Old>100	> 13%	No				
Muskwa River B	68	Low	3	BWBS conifer	Old>140	> 11%	Yes				
				BWBS deciduous	Old>100	> 13%	No				
Prophet River	69	Low	3	BWBS conifer	Old>140	> 11%	Yes				
				BWBS deciduous	Old>100	> 13%	No				
Muskwa River A	70	Low	3	BWBS conifer	Old>140	> 11%	No				
				BWBS deciduous	Old>100	> 13%	No				
Coal	74	Low	2	SWB	Old>250	>9	Yes				
				3	BWBS conifer	Old>140	> 11%	No			
							2	BWBS deciduous	Old>100	> 13%	No
							3	SWB	Old>250	>9	Yes

\* LU numbering as specified by *Fort Nelson Forest District Landscape Unit Planning Strategy Determination of Biodiversity Emphasis Options*, October 2, 2000

**Table 4. Intermediate and High Biodiversity Emphasis Landscape Units**

Landscape Unit	LU #	BEO (Biodiversity Emphasis Option)	NDT	BEC Subzones and Variants	Seral Stage (Years)	Target %	Recruitment Applies
Timberwolf	3	Intermediate	3	BWBS conifer	Old>140	> 11%	No
				BWBS deciduous	Old>100	> 13%	No
Kwokullie	5	Intermediate	3	BWBS conifer	Old>140	> 11%	No
				BWBS deciduous	Old>100	> 13%	Yes
Ootta	7	Intermediate	3	BWBS conifer	Old>140	> 11%	No
				BWBS deciduous	Old>100	> 13%	No
Hoffard	10	Intermediate	3	BWBS conifer	Old>140	> 11%	Yes
				BWBS deciduous	Old>100	> 13%	Yes
Klua	13	Intermediate	3	BWBS conifer	Old>140	> 11%	Yes
				BWBS deciduous	Old>100	> 13%	Yes
Big Beaver	14	Intermediate	3	BWBS conifer	Old>140	> 11%	Yes
				BWBS deciduous	Old>100	> 13%	No
Snake	15	Intermediate	3	BWBS conifer	Old>140	> 11%	Yes
				BWBS deciduous	Old>100	> 13%	No
Kiwigana	16	Intermediate	3	BWBS conifer	Old>140	> 11%	No
				BWBS deciduous	Old>100	> 13%	No
Sandy	18	Intermediate	3	BWBS conifer	Old>140	> 11%	No
				BWBS deciduous	Old>100	> 13%	No
Capot Blanc	19	Intermediate	3	BWBS conifer	Old>140	> 11%	Yes
				BWBS deciduous	Old>100	> 13%	No
Patry	20	Intermediate	3	BWBS conifer	Old>140	> 11%	No
				BWBS deciduous	Old>100	> 13%	No
Etane	21	Intermediate	3	BWBS conifer	Old>140	> 11%	Yes
				BWBS deciduous	Old>100	> 13%	No
Akue	24	Intermediate	3	BWBS conifer	Old>140	> 11%	Yes
				BWBS deciduous	Old>100	> 13%	No
Klowee	25	Intermediate	3	BWBS conifer	Old>140	> 11%	Yes
				BWBS deciduous	Old>100	> 13%	No
Minaker	28	Intermediate	3	BWBS conifer	Old>140	> 11%	Yes
				BWBS deciduous	Old>100	> 13%	Yes
Gammer	32	Intermediate	2	SWB	Old>250	> 9%	Yes
				3	BWBS conifer	Old>140	> 11%
Kledo	34	Intermediate	3		BWBS deciduous	Old>100	> 13%
				BWBS conifer	Old>140	> 11%	Yes
Dunedin	35	High	3	BWBS conifer	Old>140	> 16%	No
				BWBS deciduous	Old>100	> 19%	No
Irene East	36E	Intermediate	3	SWB	Old>250	> 13%	Yes
				BWBS conifer	Old>140	> 11%	No
Irene West	36W	High	3	BWBS deciduous	Old>100	> 13%	No
				BWBS conifer	Old>140	> 16%	Yes
Catkin	37	Intermediate	3	BWBS deciduous	Old>100	> 19%	No
				BWBS conifer	Old>140	> 11%	No
La Biche	38	Intermediate	3	BWBS deciduous	Old>100	> 13%	No
				BWBS conifer	Old>140	> 11%	No

**Table 4. Continued**

Crow	39	Intermediate	3	BWBS conifer	Old>140	> 11%	No
				BWBS deciduous	Old>100	> 13%	No
			2	SWB	Old>250	> 9%	Yes
Smith	59	Intermediate	3	BWBS conifer	Old>140	> 11%	No
				BWBS deciduous	Old>100	> 13%	No
			2	SWB	Old>250	> 9%	Yes
Liard River A	63	Intermediate	3	BWBS conifer	Old>140	> 11%	No
				BWBS deciduous	Old>100	> 13%	No
			2	SWB	Old>250	> 9%	Yes
Liard River B	64	Intermediate	3	BWBS conifer	Old>140	> 11%	No
				BWBS deciduous	Old>100	> 13%	No
			2	SWB	Old>250	> 9%	Yes
Liard River C	65	High	3	BWBS conifer	Old>140	> 16%	No
				BWBS deciduous	Old>100	> 19%	No
Hay River	71	Intermediate	3	BWBS conifer	Old>140	> 11%	No
				BWBS deciduous	Old>100	> 13%	No
Petitot River	72	Intermediate	3	BWBS conifer	Old>140	> 11%	No
				BWBS deciduous	Old>100	> 13%	Yes

\* LU numbering as specified by *Fort Nelson Forest District Landscape Unit Planning Strategy Determination of Biodiversity Emphasis Options*, October 2, 2000

## 5.2 Old Growth Management Areas (OGMA)

5.2.1 There are no Old Growth Management Areas established in the Fort Nelson TSA on the date of submission of this FSP.

## 5.3 Objectives Set by Government for Soils

5.3.1 In relation to the objective set by government for soils as set out in section 5 of the FPPR, the holder of this FSP will comply with sections 35 and 36 of the FPPR as those sections were on the date of submission, for all Forest Development Units, for the term of this FSP.

## 5.4 Objectives Set By Government for Wildlife

5.4.1 In respect of the notices entitled "*Indicators of the Amount, Distribution, and Attributes of Wildlife Habitat Required for the Winter Survival of Ungulate Species in the Fort Nelson Timber Supply Area*" issued on December 2004 and revised on March 2, 2006 in accordance with Section 7 of the FPPR, the results that apply to Rocky Mountain elk for FDU B, E and F are:

- (a) The holder of this FSP will ensure that no harvesting or road construction will occur on,
- i. 23,034.6 hectares in the Fort Nelson Forest District, that meets the distribution and attributes set out in the notice for Rocky Mountain Elk for the Term of this FSP.
  - ii. The net impact of sub-subparagraph (i) to the timber harvesting land base in the Fort Nelson Forest District will be the lesser of 402 hectares or the amount present on the Commencement of Term, which meets the distribution and attributes set out in the notice for the Rocky Mountain elk for the Term of this FSP.

5.4.2 In respect of the notices entitled "*Indicators of the Amount, Distribution, and Attributes of Wildlife Habitat Required for the Winter Survival of Ungulate Species in the Fort Nelson Timber Supply Area*" issued on December 2004 and revised on March 2, 2006 in accordance with Section 7 of the FPPR, the results that apply to Boreal Caribou for FDU C, D and G are:

- 
- (a) The holder of this FSP will ensure that no harvesting of merchantable trees or high-grade mainline road construction will occur on,
    - i. The lesser of 190,472 hectares or the amount present on the Commencement of Term, of area in the Fort Nelson Forest District that meets the distribution and attributes set out in the notice for Boreal Caribou for the Term of this FSP.
    - ii. The net impact of sub-subparagraph (i) to the timber harvesting land base in the Fort Nelson Forest District will be the lesser of 3,050 hectares or the amount present on the Commencement of Term, which meets the distribution and attributes set out in the notice for Boreal Caribou for the Term of this FSP.

**5.4.3** In respect of the notice entitled "*Indicators of the Amount, Distribution, and Attributes of Wildlife Habitat Required for the Survival of Species at Risk in the Fort Nelson Forest District*" issued in December 2004 and revised on March 2, 2006, in accordance with Section 7 of the FPPR, the results that apply to Boreal caribou for FDU C, D and G are:

- (a) The holder of this FSP will ensure that no harvesting of merchantable trees or high-grade mainline road construction will occur on,
  - i. The lesser of 24,900 hectares or the amount present on the Commencement of Term, of the area in the Fort Nelson Forest District, which meets the distribution and attributes set out in the notice for Boreal Caribou for the Term of this FSP.
  - ii. The net impact of sub-subparagraph (i) to the mature timber harvesting land base in the Fort Nelson Forest District will be 0 hectares, that meets the distribution and attributes set out in the notice for the Boreal caribou for the Term of this FSP.

## **5.5 Objectives Set By Government for Water, Fish, Wildlife, and Biodiversity within Riparian Areas**

**5.5.1** In relation to the objective set by government for water, fish, wildlife, and biodiversity within riparian areas set out in section 8 of the FPPR, the results and strategies that apply to the areas of primary forest activity in each FDU are, subject to paragraph 5.5.2, the requirements of section 47 to 51, and 53 of the FPPR as those sections were on the Date of Submission.

**5.5.2** For the purposes of section 12.3 (6) of the FPPR, and in accordance with section 12 (3) of the FPPR the results and strategies applicable to each FDU respecting retention of trees in a riparian reserve zone and riparian management zone are:

- (a) No trees will be harvested in a riparian reserve zone except for under the following circumstances:
  - i. felling or modifying a tree that is a safety hazard;
  - ii. topping or pruning a tree that is not wind firm;
  - iii. constructing a stream crossing;
  - iv. carrying out a forest health sanitation treatment;
  - v. felling or modifying a tree that has been windthrown or has been damaged by fire, insects, disease or other causes, if the felling or modifying will not have a material adverse impact on the riparian reserve zone; or
  - vi. felling or modifying a tree for the purpose of establishing or maintaining an interpretive forest site, recreation site, recreation facility or recreation trail.
- (b) For the purpose of maintaining streamside values (stream bank/channel stability, mitigation of potential in-stream sedimentation, wildlife cover and browse), the holder of this FSP will implement the following strategies where harvesting is conducted within 5m of the bank(s) of an S4, S5 or S6 stream:
  - i. Within the 5 meter zone immediately adjacent of all S4, S5, and S6 streams, to the extent practicable, no more than 60% of brush species, advanced conifer and deciduous regeneration, and non-merchantable coniferous and deciduous stems will be removed, except under the following circumstances:



- areas where brushing is required for conifer crop trees to achieve free growing height
- areas where stream crossings are established
- areas where hand falling is conducted; or
- areas where removal of brush, advanced regeneration or non-merchantable stems is required for safety concerns.

Crop tree/brush height ratio targets will not apply in the 5 meter zone immediately adjacent to the stream.

- ii. For the purpose of preventing an undue impact on conifer timber supply, in conifer management areas, a distinct standards unit will be prescribed within the 5 meter zone immediately adjacent of all S4, S5, and S6 streams, with relevant stocking standards appropriate for the respective biogeoclimatic site series as identified in Appendix A Part 1 of this FSP. Crop tree/brush height ratio targets will not apply under these circumstances.

*Section revised February 17, 2007.*

- (c) For the purpose of streamside retention – within 10 meters of all S4 streams, and averaged over the length of each stream reach, a minimum of 3 acceptable trees per 100m of stream length will be retained post-harvest, on either or both sides of the stream, except under the following circumstances:
- trees infested or diseased by a forest health agent that would spread if the trees were not removed;
  - there is an insufficient number of acceptable trees within 10 meters of the stream to start with;
  - there are fewer than 3 acceptable trees remaining within 10 meters of the stream after danger trees are removed;
  - operations are being conducted within 5 meters either side of a skid crossing;
  - operations are being conducted within the right-of-way of a stream crossing; or
  - there are no acceptable trees that are considered to be windfirm

An acceptable tree is defined as a tree that is greater than 17.5 centimeters DBH and is considered to be windfirm.

- (d) Subject to the provisions of section 48(4) of the FPPR and 5.5.2 (d) (i), of this FSP, the holder of this FSP will achieve the minimum tree retention standards within a riparian management zone, as described in Table 5.
- (i) On W1 and W5 wetlands, no riparian reserve or riparian management area is required for upland terrain within a bog dominated or muskeg dominated wetland larger than 1000 ha.

**Table 5. Minimum Tree Retention Standards Within a Riparian Management Zone by Category**

Category	Windthrow Hazard	Retention Amount
Streams S1-A, S1-B, S2, S3; Wetlands W1, W5	Moderate – High	≥ 25% of the merchantable stems in the RMZ area
	Low	≥ 0% of the merchantable stems in the RMZ area
Streams S4, S5, S6 <i>Revised February 17, 2007</i>	High	> 0% of the stems in the RMZ area
	Low-Moderate	> 0% of the stems in the RMZ area if not flowing directly into an S1, S2 or S3 stream, or where streamside trees do not contribute to stream bank or channel stability
	Low-Moderate	Retain enough trees to maintain stream bank or channel stability where flowing into an S1, S2, or S3 stream, and where streamside trees contribute to stream bank or channel stability.
Wetlands W3, Lake L3	Low-High	≥ 0% of the merchantable stems in the RMZ area
Lakes L1 and L3	Moderate – High	≥ 25% of the merchantable stems in the RMZ area
	Low	≥ 0% of the merchantable stems in the RMZ area

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## **5.6 Objectives Set By Government for Wildlife and Biodiversity – Landscape Level**

- 5.6.1** In relation to the objective set by government for wildlife and biodiversity at the landscape level set out in section 9 of the FPPR, paragraphs 5.6.2 and 5.6.3, in addition to the results and strategies set out in section 5.1 of this FSP, details the results and strategies for biodiversity at a landscape level that apply to the areas of primary forest activity in each FDU.
- 5.6.2** For the term of this FSP, the holder of this FSP will achieve or show a trend towards achieving the young forest patch size target distribution range for each FDU as shown in Table 6.
- (a) Notwithstanding 5.6.2, the results and strategies are applicable to the entire portion of the Landscape Unit that is contained in an FDU, and may be applicable to more than one FDU.
  - (b) Where the target or a trend toward the target has not been achieved, the holder of this FSP will provide the appropriate government agency with a rationale as to why the target is not or cannot be met, and/or a strategy indicating how the target can be achieved, if applicable.
  - (c) Should 5.6.2 (b) apply in any event, the holder of this FSP will not conduct any new harvesting activity in the applicable Landscape Unit until the rationale and/or strategy have been provided to the appropriate government agency.
- 5.6.3** The holder of this FSP will provide an analysis that is deemed acceptable by the appropriate government agency, at a minimum:
- (a) once per calendar year post-harvest; or
  - (c) prior to, or concurrently with, any minor amendments to the FSP that entail the declaration of any area(s) as per section 14(4) of the FPPR.

## **5.7 Objectives Set By Government for Wildlife and Biodiversity – Stand Level**

### **Wildlife Tree Retention**

- 5.7.1** For the purposes of section 12.5 (1) of the FPPR, in relation to the objective set by government for wildlife and biodiversity at the stand level set out in section 9.1 of the FPPR, paragraphs 5.7.2, 5.7.3 and 5.7.4 details the results and strategies for wildlife tree retention that apply to the areas of primary forest activity in each FDU.
- 5.7.2** The holder of this FSP will ensure that at the end of a 12 month period beginning on April 1 of any calendar year, the total area covered by wildlife tree retention areas in relation to the harvested cutblocks:
- a) Meets or exceeds the target percentage of the total area of the cutblocks by Landscape Unit and associated BEC zone, as identified in Table 7, and is applicable to the total area of cutblocks harvested within said calendar year.

**Table 6. Target Patch Size Distribution**

Forest Development Unit	Landscape Unit(s) (LU #)	Patch Size Category	Patch Size Class (ha)	Target Distribution Range ( % )
<b>A</b>	Smith (59), Coal (74)	Small	< 40	10-20
		Medium	40-249	10-20
		Large/Extra Large	250-1000+	60-80
	Liard River A (63)	Small	< 20	30-50
		Medium	20-39	30-50
		Large/Extra Large	39-80+	10-30
<b>B</b>	Etane (21), Pouce (23), Kledo (34), Dunedin (35), Irene East (36E), Irene West (36W), Catkin (37), La Biche (38), Crow (39)	Small	< 40	10-20
		Medium	40-249	10-20
		Large/Extra Large	250-1000+	60-80
	Liard River B (64), Liard River C (65), Muskwa River B (68)	Small	< 20	30-50
		Medium	20-39	30-50
		Large/Extra Large	39-80+	10-30
<b>C</b>	Snake (15), Kiwigana (16), D'Easum (17), Sandy (18), Capot-Blanc (19), Patry (20), Stanolind (22), Pouce (23)	Small	< 40	10-20
		Medium	40-249	10-20
		Large/Extra Large	250-1000+	60-80
	Liard River C (65), Fort Nelson River A (67), Fort Nelson River B (66), Petitot River (72)	Small	< 20	30-50
		Medium	20-39	30-50
		Large/Extra Large	39-80+	10-30
<b>D</b>	Shekilie (2), Timberwolf (3), Kyklo (4), Kwokullie (5), Sahtaneh (9), Hoffard (10), Elleh (11)	Small	< 40	10-20
		Medium	40-249	10-20
		Large/Extra Large	250-1000+	60-80
	Fort Nelson River A (67), Hay River (71)	Small	< 20	30-50
		Medium	20-39	30-50
		Large/Extra Large	39-80+	10-30
<b>E</b>	Akue (24), Klowee (25), Holden (26), Jackknife (27), Bunch (31), Gammer (32)	Small	< 40	10-20
		Medium	40-249	10-20
		Large/Extra Large	250-1000+	60-80
	Muskwa River B (68)	Small	< 20	30-50
		Medium	20-39	30-50
		Large/Extra Large	39-80+	10-30
<b>F</b>	Eskai (12), Klua (13), Big Beaver (14), Minnaker (28)	Small	< 40	10-20
		Medium	40-249	10-20
		Large/Extra Large	250-1000+	60-80
	Fort Nelson River A (67), Prophet River (69)	Small	< 20	30-50
		Medium	20-39	30-50
		Large/Extra Large	39-80+	10-30
<b>G</b>	July Lake (1), Shekillie (2), Hossitl (6), Ootta (7), Dilly (8)	Small	< 40	10-20
		Medium	40-249	10-20
		Large/Extra Large	250-1000+	60-80
	Petitot River (72)	Small	< 20	30-50
		Medium	20-39	30-50
		Large/Extra Large	39-80+	10-30
<b>Sandy-Maxhamish</b>	Sandy (18)	Small	< 40	10-20
		Medium	40-249	10-20
		Large/Extra Large	250-1000+	60-80

Map Reference: Landscape Unit/FDU Overview Map.

**5.7.3** The holder of this FSP will ensure that at the completion of harvesting, the total amount of wildlife tree retention areas that relates to the cutblock:

- (a) Meets or exceeds half of the target percentage of the total area of the cutblock, that is 15 hectares or greater in size, by Landscape Unit and associated BEC zone, as identified in Table 7.

**Table 7. Wildlife Tree Retention Targets**

Forest Development Unit	Landscape Unit(s) (LU #)	ZONE	SUBZONE	Wildlife Tree Retention (%)
<b>A</b>	Smith (59)	BWBS	dk	2
		BWBS	wk	1
		SWB	mk	1
	Coal (74)	BWBS	dk	1
		SWB	mk	1
	Liard River A (63)	BWBS	dk	1
		SWB	mk	1
<b>B</b>	Etane (21)	BWBS	mw	5
		BWBS	wk	2
	Pouce (23)	BWBS	mw	6
		BWBS	wk	1
	Kledo (34)	BWBS	mw	3
		BWBS	wk	1
		SWB	mk	1
	Irene East (36E), Irene West (36W)	BWBS	mw	2
		BWBS	wk	1
	Catkin (37)	BWBS	mw	2
	La Biche (38)	BWBS	mw	6
	Crow (39)	BWBS	mw	4
		BWBS	wk	1
		SWB	mk	1
	Liard River B (64)	BWBS	mw	2
		BWBS	Wk	1
		SWB	mk	1
Liard River C (65)	BWBS	mw	7	
Muskwa River B (68)	BWBS	mw	11	
<b>C</b>	Snake (15)	BWBS	mw	6
	Kiwigana (16)	BWBS	mw	4
	D'Easum (17)	BWBS	mw	2
	Sandy (18)	BWBS	mw	3
	Capot-Blanc (19)	BWBS	mw	4
	Patry (20)	BWBS	mw	6
	Stanolind (22)	BWBS	mw	7
		BWBS	wk	2
	Pouce (23)	BWBS	mw	6
		BWBS	wk	1
	Liard River C (65)	BWBS	mw	7
	Fort Nelson River A (67)	BWBS	mw	6
	Fort Nelson River B (66)	BWBS	mw	10
Petitot River (72)	BWBS	mw	2	

Table 7. Continued

Forest Development Unit	Landscape Unit(s) (LU #)	ZONE	SUBZONE	Wildlife Tree Retention (%)
<b>D</b>	Shekilie (2)	BWBS	mw	2
	Timberwolf (3)	BWBS	mw	4
	Kyklo (4)	BWBS	mw	3
	Kwokullie (5)	BWBS	mw	3
	Sahtaneh (9)	BWBS	mw	3
	Hoffard (10)	BWBS	mw	4
	Elleh (11)	BWBS	mw	5
	Fort Nelson River A (67)	BWBS	mw	6
Hay River (71)	BWBS	mw	6	
<b>E</b>	Akue (24)	BWBS	mw	5
		BWBS	wk	3
	Klowee (25)	BWBS	mw	4
	Holden (26)	BWBS	mw	3
		BWBS	wk	1
		SWB	mk	1
	Jackknife (27)	BWBS	mw	2
	Bunch (31)	BWBS	mw	3
		BWBS	wk	1
		SWB	mk	1
	Gammer (32)	BWBS	mw	1
BWBS		wk	1	
SWB		mk	1	
Muskwa River B (68)	BWBS	mw	11	
<b>F</b>	Eskai (12)	BWBS	mw	3
	Klua (13)	BWBS	mw	4
		BWBS	wk	2
	Big Beaver (14)	BWBS	mw	5
		BWBS	wk	2
	Minnaker (28)	BWBS	mw	3
		BWBS	wk	1
SWB	mk	1		
Fort Nelson River A (67)	BWBS	mw	6	
Prophet River (69)	BWBS	mw	8	
<b>G</b>	July Lake (1)	BWBS	mw	2
	Shekillie (2)	BWBS	mw	2
	Hossitt (6)	BWBS	mw	2
	Ootta (7)	BWBS	mw	2
	Dilly (8)	BWBS	mw	3
	Petitot River (72)	BWBS	mw	2
<b>Sandy-Maxhamish</b>	Sandy (18)	BWBS	mw	3

## **Restriction on Harvesting**

- 5.7.4** For the purposes of section 12.5 (2) of the FPPR, in relation to the objective set by government for wildlife and biodiversity at the stand level set out in section 9.1 of the FPPR, the holder of this FSP may only harvest timber from a wildlife tree retention area if:
- (a) The trees on the net area to be reforested of the cutblock to which the wildlife tree retention area relates have developed attributes that are consistent with a mature seral condition;
  - (b) The trees to be harvested from within the wildlife tree retention area are danger trees;
  - (c) The portion of the wildlife tree retention area that is occupied by trees provides the most practicable access to another cutblock and the holder specifies one or more wildlife tree retention areas that provide an area, number of trees or habitat that the holder of this FSP considers to be equivalent to the portion of the wildlife tree retention area from which the timber is being harvested; or
  - (d) The existing wildlife tree retention area does not accommodate landscape level cutblock designs and their associated biodiversity targets, as stated in paragraph 5.7.2 of this FSP, and the holder specifies one or more wildlife tree retention areas that provide an area, number of trees or habitat that the holder of this FSP considers to be equivalent to the portion of the wildlife tree retention area from which the timber is being harvested.

## **5.8 Objectives Set by Government for Visual Quality Objectives and Objectives in respect of Scenic Areas**

- 5.8.1** In relation to the objective set by government for visual quality set out in Section 9.2 of the FPPR for scenic areas, for each scenic area the results and strategies for all identified FDU's are that the cutblocks and roads will be designed so that the altered forest landscape is consistent with section 9.2 (2) of the FPPR.

The established Visual Quality Objectives (VQO) follow the categories of visually altered forest landscape as defined in section 1.1 of the FPPR. The broad categories are:

Class 1.	Preservation
Class 2.	Retention
Class 3.	Partial Retention
Class 4.	Modification
Class 5.	Maximum Modification

Where it has been determined that a Visual Impact Assessment (VIA) is required a VIA report will be provided following the format of the 'Visual Impact Assessment Summary Form' shown in Appendix 2 in the VIA Guidebook, 2<sup>nd</sup> Edition, January 2001. The percentages of alteration allowed that would meet the respective category of visually altered forest landscape are the values defined in table 3 in the VIA Guidebook, 2<sup>nd</sup> Edition, January 2001.

All established scenic areas and their Established Visual Quality Classes are identified on the FSP 1:50,000 Content Map.

*Map Reference:* VQO/FDU Overview Map.

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## **5.9 Objectives Set By Government for Cultural Heritage Resources**

**5.9.1** In relation to the objective set by government for cultural heritage resources set out in section 10 of the FPPR, paragraphs 5.9.2, 5.9.3, 5.9.4, 5.9.5, and 5.9.6 details the results and strategies that apply to each FDU.

**5.9.2** On an annual basis, the holder of this FSP will communicate to affected First Nations the approved general areas of timber harvesting and road construction, if any, that are proposed for the year.

Timber harvesting blocks and road locations proposed for inclusion in this FSP, not having previously undergone First Nations review and consultation, will be identified to the affected First Nation(s) prior to inclusion in this FSP. To provide an opportunity to review and comment on these proposed blocks and road locations, a 60 day review period will be provided to the affected First Nation(s) to allow for the review and submission of comments to the holder of this FSP.

In the event that a review period less than 60 days is required to accommodate unforeseen and/or urgent circumstances where timber on an area should be harvested without delay because it is in danger of being damaged, significantly reduced in value, lost or destroyed, the holder of this FSP will discuss the necessity for a modified review period with the affected First Nation(s), and provide a reasonable review period reflective of the circumstances at hand.

Consultation on timber harvesting blocks and road locations initiated and/or completed as part of the previously approved FDP will be considered valid and applicable to this FSP.

### **5.9.3 Archaeological Evaluation**

Prior to harvest of a cutblock or construction of a road, an archaeological evaluation will be conducted within areas:

- (a) That contain previously identified archaeological resources;
- (b) That are identified as having "high potential" within an established archaeological predictive map or model for the area, or;
- (c) Where site-specific information regarding archaeological resources is brought forward or made available to the holder of this FSP by First Nations.

### **5.9.4 Unidentified Features Encountered During Development Activities**

If a previously unidentified cultural heritage resource feature is encountered during harvesting or road construction, operations will cease to the extent necessary to protect the feature, until an evaluation of the feature can be carried out.

### **5.9.5 Harvesting and Road Development Consistent with Archaeological Recommendations**

Harvesting and road construction activities will be consistent with the recommendations given in an archaeological evaluation conducted under section 5.9.3.

### **5.9.6 Non-archaeological Cultural Heritage Resources**

Where site specific cultural heritage resource information is brought forth by an aboriginal people or community regarding a traditional use or site that is of continuing importance in the location of a proposed cutting authority or road permit, the holder of this FSP will:

- (a) Record the location of the cultural heritage resource;

- 
- (b) Evaluate the direct impact of the planned development on the cultural heritage resource or traditional site<sup>1</sup>;
  - (c) Where necessary, alter planned development in order to conserve, mitigate, or if necessary protect, the cultural heritage resource at that location, considering:
    - i. The relative value or importance of the cultural heritage resource to a traditional use or site by an aboriginal people or community;
    - ii. The relative abundance or scarcity of the cultural heritage resource;
    - iii. The historical extent of the traditional use of the cultural heritage resource; and
    - iv. The impact on the FSP holders' government granted timber harvesting rights in conserving or protecting the cultural heritage resource.
  - (d) Communicate the results of (a) (b) and (c) back to the individual or group that provided the information.

These results and strategies are applicable to: all FDU's within this FSP.

## **5.10 Objectives in Respect of Recreation Resources**

**5.10.1** In relation to the objectives referred to in section 181 of the FRPA for recreation sites, trails, and interpretative sites previously established and/or established under Section 5 of the Government Actions Regulation, the results and strategies that apply to each FDU with respect to forest operations or disturbance activities undertaken by the holder of this FSP are:

- (a) Unless directed by the District Manager, the holder of this FSP will not harvest timber from within an established recreation site, trail or interpretive site. If harvesting is proposed within 100 m of an established recreation site or recreation trail identified in Table 8, the holder of this FSP will ensure, unless otherwise directed by the District Manager and agreed upon by the holder, that:
  - i. No harvest occurs when stand damage from forest health factors is less than 10% of the stems per hectare;
  - ii. Partial cutting occurs when stand damage from forest health factors is greater than or equal to 10% of the stems per hectare;
  - iii. Clear cutting will occur when stand damage from forest health factors is greater than 40% of the stems per hectare; and
  - iv. Any damage to an established recreation site or trail due to harvest activities by the holder of this FSP within the 100 m buffer will be repaired or mitigated.
- (b) If road construction is proposed within 100 m of an established recreation site or trail identified in Table 8, the holder will ensure that:
  - i. Temporary road construction or access control is implemented; and
  - ii. Any damage to an established recreation site or trail due to road construction by the holder of this FSP within the 100 m buffer will be repaired or mitigated.
- (c) If the holder has planned forest operations for the only access route to an established recreation site identified in Table 8, the holder will not restrict access as a result of deactivation activities, except for temporary closures to repair or replace roads and bridges.

These results and strategies are applicable to all FDU's contained within this FSP. See Table 8 below for a listing of identified recreation sites and trails.

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<sup>1</sup> A cultural heritage resource evaluation is similar to an archaeological evaluation and includes consideration of the items noted in section 5.9.6(c). *Revised February 17, 2007*



**Table 8. Established Recreation Sites and Trails**

General Location	Recreation Feature	License
Beaver Lake	Established Rec. Site	A17007, PA 14
Gathto	Established Rec. Site	N/A
Muskwa Boat Launch	Established Rec. Site	A17007, PA 14
West Lake	Established Rec. Site	A17007, PA 14
Teetering Rock	Established Rec. Trail	A17007, PA 14
Fort Nelson Recreation Interpretive Forest	Established Rec. Site	A17007, PA 14

### 5.11 Objectives in Respect of Wildlife Habitat Areas

5.11.1 No wildlife habitat areas or objectives have been established under the Government Actions Regulation or grand parented under section 180 and 181 of the FRPA that apply to the FDU's of this FSP, and therefore no results or strategies are specified.

### 5.12 Objectives in Respect of Ungulate Winter Range

5.12.1 No ungulate winter ranges or objectives have been established under the Government Actions Regulation or grand parented under section 180 and 181 of the FRPA that apply to the FDU's of this FSP, and therefore no results or strategies are specified.

### 5.13 Objectives in Respect of Lakeshore Management Zone

5.13.1 No objectives have been established under the Government Actions Regulation or grand parented under section 180 and 181 of the FRPA pertaining to lakeshore classifications in the Fort Nelson Timber Supply Area and therefore no results or strategies are specified. The holder of this FSP will comply with the results and strategies for riparian management associated with lakes as set in section 5.5 of this FSP for the term of this FSP.

### 5.14 Objectives in Respect of Community Watersheds

5.14.1 No community watersheds or objectives have been established under the Government Actions Regulation or grand parented under section 180 and 181 of the FRPA that apply to the FDU's of this FSP, and therefore no results or strategies are specified.

### 5.15 Objectives in Respect of Fisheries Sensitive Watershed Objectives

5.15.1 No fisheries sensitive watersheds or objectives have been established under the Government Actions Regulation or grand parented under section 180 and 181 of the FRPA that apply to the FDU's of this FSP and therefore no results or strategies are specified.

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## 6 MEASURES

### 6.1 Measures for Preventing the Introduction or Spread of Invasive Plants

6.1.1 In relation to the measures referred to in section 17 of the FPPR for preventing the introduction or spread of invasive plants, the strategy for all FDU's is:

- (a) on an annual basis, the area of known sites of invasive plants, and sites considered as high and extremely high risk to invasive plant establishment through forest practices will be identified, mapped and tracked using information gathered from Licensee staff, district range staff, regional experts, or other agencies;
- (b) categorize and prioritize known sites of invasive plants referred to in 6.1.1 (a), as per established list in the Invasive Plants Regulation, which may be amended from time to time; and report on control measures undertaken, if any;
  - i. Known sites of invasive plants identified as per 6.1.1 (a) and (b) will be reported by contacting 1-800-670-7773, established through the North East Invasive Plant Committee (NEIPC) provided that said committee remains functional.
- (c) where re-establishment of vegetation is required as a result of forest management activities, the seed mix used in all grass seeding activities shall meet or exceed Canada Common #1 Forage Mixture. Specifications as defined by the Canada Seeds Act;
- (d) seeded sites will be re-seeded within one year if 50% of the area has not established; and
- (e) heavy equipment imported to the Fort Nelson Timber Supply Area will be washed prior to beginning forestry operations. Re-washing of heavy equipment will not be required unless the equipment leaves and subsequently returns to the Fort Nelson Timber Supply Area.  
*Revised February 17, 2007.*

### 6.2 Measures to Mitigate the Loss of Natural Range Barriers

6.2.1 In relation to the measures referred to in section 18 of the FPPR to mitigate the effect of removing or rendering ineffective natural range barriers, the strategy for all FDU's is:

- (a) Each year under the term of this FSP, the areas within FDU's that are occupied by or adjacent to range tenure will be updated from information gathered from district range staff;
- (b) The range tenure holder will be informed of planned development adjacent to the tenure prior to cutting authority (where cutblock size is > 15 ha) or road permit application; and
- (c) Where the range tenure holder indicates that the planned development will remove or render ineffective a natural range barrier, reasonable efforts will be made to come to agreement with the range tenure holder and to implement mitigative measures as agreed.

## 7 STOCKING REQUIREMENTS

### 7.1 General Standards

For the purposes of Section 16 (1) of the Forest Planning and Practices Regulation, section 44(1) of that regulation will apply to every area where the holder of this Forest Stewardship Plan is required to establish a free growing stand.

Where a holder of this FSP is required under the Act and regulations to establish a free growing stand in respect of timber harvesting governed by this FSP, the holder will on all cutblocks, subject to paragraphs 7.1.1 to 7.1.5 do so in accordance with the regeneration and free growing stocking standards in Appendix A.

Determination of the stocking standards to be applied to each cutblock will be based on the BEC classification (biogeoclimatic unit and site series) and the pre harvest species composition of the cutblock (expressed on a merchantable net volume basis), so that to the extent practicable conifer stands are replaced with conifer stands and deciduous stands replaced with deciduous stands. For the purpose of determining stocking standards, cutblocks with a preharvest species composition equal to or greater than 80% conifer species will be managed for conifer production. Cutblocks with a preharvest species composition equal to or greater than 80% deciduous species will be managed for deciduous production. Mixed species cutblocks are defined as having a preharvest species composition less than 80% conifer and less than 80% deciduous. Mixed species cutblocks will be replaced with stands where the preharvest coniferous and deciduous species components are segregated into distinct strata. Coniferous/deciduous species management balancing will be conducted at the cutting authority level

### **7.1.1 Variations from General Standards**

For the purposes of Section 16 (3) of the Forest Planning and Practices Regulation, for each area in each FDU where the holder of this Forest Stewardship Plan is required to establish a free growing stand, the stocking standards as set out in the tables following opposite the BEC that applies to the area, will be used on all areas that are subject to a signed and sealed site plan, with the following exceptions and conditions:

### **7.1.2 Free Growing Standards**

For deciduous management areas, the free growing period will be reduced from the standard default of 20 years to the current standard of 10 years, with the minimum free growing height set at 2.0 meters for acceptable and preferred deciduous species. Deleterious species do not include Ac, At or Ep. Ac stump suckers are not considered as acceptable stems and are considered deleterious competition. Maximum density free growing criteria do not apply to broad leaf management as the species are self thinning.

For any opening that is being managed as an even aged stand, any overstorey stems that were retained at the time of logging will not be considered deleterious competition at Free Growing.

As per paragraph 5.5.2 of this document, a 5 meter zone along each side of any S4, S5, or S6 stream will have brush species, advanced regeneration, and non-merchantable conifers and deciduous stems retained. Within these areas, the retained deciduous stems and brush species will be considered non-deleterious competition for the purposes of free growing assessment.

### **7.1.3 Understory Spruce retention standards**

The stocking standards for areas where understory spruce retention will be prescribed will be derived following the procedures referenced in the document titled "District Operating Procedures for Understory Retention on Pulpwood Agreement 14" dated February 2002.

### **7.1.4 Riparian Management Considerations**

#### Riparian Stocking standards for 5 meter retention zones along S4, S5 and S6 Streams

As per paragraph 5.5.2 of this FSP, the 5 meter zone immediately adjacent to each side of any S4, S5, or S6 stream where harvesting has occurred will have brush species, advanced regeneration, and non-merchantable conifers and deciduous stems retained post-harvest for the purpose of maintenance of streamside values (stream bank/channel stability, to mitigate potential in-stream sedimentation, provision of wildlife cover and browse). See section 5.5.2 (b) ii for greater detail. For the purpose of preventing an undue impact on conifer timber supply, in conifer management areas, a distinct standards unit will be prescribed with relevant stocking standards appropriate for the

respective site series as identified in Appendix A - Part 1. These areas will be planted, where conifer management is prescribed, however, the free growing requirement for crop tree/brush height ratio will not apply within the 5 meter zone immediately adjacent to each side of the stream, to allow for the continued retention of the structure left at time of logging.

#### Riparian Stocking standard for partially logged Riparian Management Areas

A partial harvesting strategy in Riparian Management Zones (RMZ) has been identified in paragraph 5.5.2 of this FSP. To reflect the influence partial harvesting has on stocking standards, a multi layered stocking standard has been developed for those areas of partial retention in the Riparian Management Zones. Where the partial harvesting has been prescribed as a method to retain the wind firmness of the Riparian Reserve Zone, those partial retention areas will be identified as a separate Standard Unit (SU) in the Site Plan. The stocking standards that will be applied to the partial retention SU will be multi layer stocking standards (Riparian 01-05 and Riparian 06-07) as identified in Appendix A - Part 3. These stocking standards reflect the influence the upper tree layers have on lower layers and on the stocking standards.

#### Riparian Management Areas on Conifer Management Blocks

Riparian areas along S4, S5 and S6 streams in harvested conifer blocks may naturally regenerate with deciduous species. Conifer management blocks that do not have a timbered riparian management zone retained along S4, S5 and S6 streams may be prescribed with a unique, site specific riparian management regime that recognizes the potential for significant deciduous regeneration in the RMZ. Where, in the opinion of the prescribing professional, significant acceptable deciduous regeneration is anticipated, the Riparian Management Area (RMA) may be identified as a distinct SU on each side of the stream. The width of the Riparian Management Area will be based on the stream width, as referred to in paragraph 5.5.1 of this FSP, and will not be greater than 60 meters total width.

These identified riparian management areas standard units will have a conifer management regime prescribed at the Site Plan stage and will be regenerated as such. The stocking standards to be prescribed for these standards units will be as identified in Appendix A – Part 1 for the respective site series present. Silviculture Surveys conducted between years 2 to 6 and for free growing will stratify those areas within the SU that have significant amounts of naturally regenerated, good quality At, Ep, and/or Ac. *Revised Feb 17, 2007.* Those deciduous areas that have sufficient densities to meet the deciduous stocking standards will be managed to produce a deciduous stand. Within the strata to be managed as a deciduous stand, the At, Ac and Ep will not be considered deleterious competition to the conifers. Outside of the 5 meter retention zone along the stream, brush species will be considered deleterious competition to conifer and deciduous stems and the crop tree/brush height ratio will apply.

#### **7.1.5 Site Series Complex**

In a standards unit consisting of a site series complex where the preferred species for the standards unit include all of the preferred species for all of the site series comprising that unit:

1. the preferred species will only be planted where they are ecologically suited within the standards unit,
2. the Target Stocking Standards, Minimum Stocking Standards, minimum inter-tree distance and minimum height will be those of the dominant site series, and
3. if there is no dominant site series, the Target Stocking Standards, Minimum Stocking Standards, minimum inter-tree distance and minimum height will be those of the most limiting site series.

**SIGNATURES OF PERSONS REQUIRED TO PREPARE THIS PLAN**

This plan was prepared by:

- Darrell Regimbald, RPF
- Alena Terry, RPF
- Brad Mitchell, RPF

<p>Preparing Forester Signature:</p> <p><i>"I certify that I have determined that this work was preformed to an acceptable standard"</i></p>	
<p>Date:</p>	<p><b>Darrell Regimbald, RPF</b>                  Strategic Planning Coordinator                  Canadian Forest Products Ltd.                  Fort Nelson Woodlands</p>

<p>Authorized Licensee Signature:</p>	
<p>Date:</p>	<p><b>Mike Breisch, RPF</b>                  Woodlands Manager                  Canadian Forest Products Ltd.                  Fort Nelson Woodlands                  Signing Authority</p>

**APPENDIX A: REGENERATION AND FREE GROWING STOCKING STANDARDS**

**Part 1: Conifer Stocking Standards for Even-aged Management**

Zone	Variant	Site Series	Layer	MITD (m)	Regeneration Delay Standards										Free Growing Standards																	
					Regen Company ID	Max Regen Delay (yrs)	Target WS P&A	Min WS P&A	Min WS P	Preferred Spp			Acceptable Spp			Tree height > brush (min %)	Min WS (sph)	Sp1	Ht1 (m)	Sp2	Ht2 (m)	Sp3	Ht3 (m)	Sp4	Ht4 (m)	Sp5	Ht5 (m)	Max Conif Density				
										P1	P2	P3	A1	A2	A3																	
BWBS	mw2	01	4	2.0	Conifer 01	4	1200	700	700	Sw	Pl		Bl <sup>c</sup>	Lt <sup>d</sup>		150	700	Sw	1.0	Pli	2.0	Bl <sup>c</sup>	1.0	Lt <sup>d</sup>	1.0							10,000
BWBS	mw2	02	4	2.0	Conifer 02	4	1200	700	700	Pl			Sw			150	700	Sw	1.0	Pli	2.0											10,000
BWBS	mw2	03/04	4	2.0	Conifer 03/04	4	1200	700	600	Pli			Sb	Sw		150	700	Pli	2.0	Sb	1.0	Sw	1.0									10,000
BWBS	mw2	03/04	4	2.0	Conifer 08 <sup>a</sup>	4	1200	700	600	Sw			Pl			150	700	Sw	2.0	Pli	2.0											10,000
BWBS	mw2	05	4	2.0	Conifer 05	4	1200	700	700	Sw			Lt <sup>d</sup>			150	700	Sw	1.0	Lt <sup>d</sup>	1.0											10,000
BWBS	mw2	06	4	1.6 <sup>b</sup>	Conifer 06	4	1200	700	600	Sb	Sw		Lt			150	700	Sb	1.0	Sw	1.0	Lt	1.0									10,000
BWBS	mw2	07	4	1.6 <sup>b</sup>	Conifer 07	4	1200	700	600	Lt	Sw		Sb			150	700	Lt	1.0	Sw	1.0	Sb	1.0									10,000

(a) Conifer 08 has been added to allow for management of site specific cases to account for local conditions, historical knowledge of the area. The target height for the spruce has been increased to 2.0 m to ensure viable establishment of planted Sw. This site series will allow for mixed planting on higher elevation sites where the local knowledge indicates a poorer performance of pine.

(b) The minimum inter tree distance will be reduced to 1.6 m in hygric to sub-hygric areas (site series 06 and 07); target/minimum WS P&A will be increased to 1200/700.

(c) Bl will be acceptable on the 01 conifer management areas in FDU B, Bl minimum free growing height will be 1.0 m.

(d) Lt will be acceptable on the 01 and 05 conifer management areas in FDU D, where there is evidence of larch in the adjacent stands, Lt minimum free growing height will be 1.0 m.

Note the following:

- If the areas identified as being managed under the riparian standards for conifer has regenerated to deciduous stocking, the stocking can be changed to a deciduous management area by applying a deciduous stocking standard.
- For the purpose of maintaining streamside values, a 5 meter zone along each side of any S4, S5, or S6 stream will have no more than 60% of brush species, advanced conifer and deciduous regeneration, and non-merchantable coniferous and deciduous stems removed due to primary forest operations. To prevent an undue impact on conifer timber supply in conifer management areas, a distinct standards unit will be prescribed with relevant stocking standards appropriate for the respective site series as identified in the conifer stocking standards table above. These areas will be planted, where conifer management is prescribed, however, the free growing requirement for crop tree/ brush height ratio will not apply, to allow for the continued retention of the structure left at time of logging.

**Part 2: Deciduous Stocking Standards for Even-aged Management**

Zone	Variant	Site Series	Layer	MITD (m)	Regeneration Delay Standards									Free Growing Standards													
					Regen Company ID	Max Regen Delay (yrs)	Target WS P&A	Min WS P&A	Min WS P	Preferred Spp		Acceptable Spp		Tree height > brush (min %)	Min WS (sph)	Sp1	Ht1 (m)	Sp2	Ht2 (m)	Sp3	Ht3 (m)	Sp4	Ht4 (m)	Sp5	Ht5 (m)	Max Conif Density	
BWBS	mw2	01\$	4	1.4	Decid 01	5	2600	2000	1800	At	Ac <sup>a</sup>	Ep	Sw	Pl	100	1800	At	2.0	Ac <sup>a</sup>	2.0	Ep	2.0	Sw	1.0	Pl	2.0	N/A
BWBS	mw2	05\$	4	1.4	Decid 05 <sup>b</sup>	5	2600	2000	1800	Ac <sup>a</sup>		Ep	Sw	At	100	1800	Ac <sup>a</sup>	2.0	At	2.0	Ep	2.0	Sw	1.0			N/A
BWBS	mw2	05\$	4	1.4	Decid 06 <sup>c</sup>	5	2600	2000	1800	At	Ac <sup>a</sup>	Ep	Sw		100	1800	At	2.0	Ac <sup>a</sup>	2.0	Ep	2.0	Sw	1.0			N/A

(a) Ac growing from stump suckers will not be considered acceptable

(b) Deciduous 05 is for river bottom 05\$ sites

(c) Deciduous 06 is for upland 05\$ sites and has been added to allow for upland deciduous complexes that may include small areas of viable At and Ac mixtures. Historically, these areas represent minimal area of the total harvest and are difficult to stratify at the site plan stage.

**Part 3: Multi-layer Stocking Standards for Conifer Partial Retention Riparian Management Zone**

Zone	Variant	Site Series	Regen Company ID	Target from even-aged standards (sph)	Layer*	MITD (m)	Stocking Standards (well spaced sph)			Tree height >brush (min %)	Maximum Density (countable sph)		
							Target p & a	Min p & a	Min p		Max (sph)	Post Spacing	
												Min (sph)	Max (sph)
BWBS	mw2	01-08	MS Riparian 01-08	1200	1	0	600	300	250	NA	N/A	N/A	N/A
					2	2.0	800	400	300	150	N/A	N/A	N/A
					3	2.0	1000	500	400	150	10,000	1200	2000
					4	2.0	1200	700	600	150	N/A	N/A	N/A

- Layer 1 = mature layer = trees  $\geq$  12.5 cm dbh; Layer 2 = pole layer = trees 7.5 cm to 12.4 cm dbh; Layer 3 = sapling layer = trees  $\geq$  1.3m in height and up to 7.4 cm dbh; Layer 4 = regeneration layer = trees < 1.3 m in height.

Until such time as survey procedures for Even Aged Stand Structures with Uniform Short or Long-term Retention are developed by the Province, Canfor will use multi storied stocking standards on partially cut riparian management areas where the post harvest basal area retention is equal to or greater than 40% of the pre-harvest basal area. The Table above (Part 3) summarizes the multi storied stocking standards to be used on riparian management areas where the post harvest basal area retention is equal to or greater than 40% of the pre-harvest basal area.

The multi layered stocking standards to be specified in any given site plan will be the standards that correspond to the even aged target stocking for the site series being managed. Where multi storied stocking standards are prescribed for riparian area management the preferred and acceptable species, the regeneration delay and late free growing assessment dates and the minimum free growing heights will be as specified in Part 1(Conifer Stocking Standards For Even Aged Management) for the respective site series to be managed.

The minimum inter tree distance for layer 1 is 0. This is in recognition of the fact that layer 1 is already established.



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**APPENDIX B: FOREST STEWARDSHIP PLAN MAP SUMMARY**

<b>Map Number</b>	<b>Map Reference</b>
1	Landscape Units
2	Resource Management Zones
3	Visual Quality Objectives
N/A	FSP Forest Development Unit Map – see map roll
N/A	FSP 1:50,000 Content Maps – see map roll

**APPENDIX C: BLOCKS WITH ACTIVE CUTTING AUTHORITIES WHERE HARVESTING HAS NOT COMMENCED AS OF DATE OF SUBMISSION THAT ARE WITHIN THE FDU AREAS**

Cutting Authority	Block I.D.	Applicable FDU	Status
117	PIN1769	B	Permitted
117	PIN1774	B	Permitted
117	PIN1779	B	Permitted
117	PIN1782	B	Permitted
167	STH854	C	Permitted
192	IRN2085	B	Permitted
195	IRN2093	B	Permitted
448	NDD2513	B	Permitted
458	TSO5829	C	Permitted
A54025	KLDP22	B	Permitted
A54025	KLDP23	B	Permitted
A54025	KLDP24	B	Permitted
A54025	KLDP25	B	Permitted
A56839	CB6023	C	Permitted
A65226	RBY890	C	Permitted
A65238	ZUS5963	C	Permitted
A65238	ZUS5966	C	Permitted
A65238	ZUS5967	C	Permitted
A65239	ZUS5968	C	Permitted
A65239	ZUS5969	C	Permitted
A65239	ZUS5970	C	Permitted
A65239	ZUS5971	C	Permitted
A67174	TSO239	C	Permitted
A67203	ZUS6165	C	Permitted
A67209	TSM884	C	Permitted
A67209	TSM885	C	Permitted
A67209	TSM886	C	Permitted
A67214	CB6094	C	Permitted
A67214	CB6095	C	Permitted
A67215	KIW2221	C	Permitted
A67215	KIW2222	C	Permitted
A67215	KIW2224	C	Permitted
A67215	KIW2225	C	Permitted
A67215	KIW2226	C	Permitted
A67215	KIW2229	C	Permitted
A67216	CB6083	C	Permitted
A67216	CB6084	C	Permitted
A70416	IRNP36	B	Permitted
A70447	TORP75	B	Permitted
A70448	KIW2215	C	Permitted
A70448	KIW2216	C	Permitted
A74692	ELH2008	D	Permitted
A74692	ELH2010	D	Permitted
A74694	TSM4958	C	Permitted

**APPENDIX D: ACTIVE RP'S TO DATE OF SUBMISSION THAT ARE WITHIN THE FDU AREAS**

Road Permit	Applicable FDU	Status
R01117	B	RP
R02560	C, F	RP
R03827	C, F	RP
R03828	B, C, F	RP
R03831	C, D	RP
R03832	C, B	RP
R03835	C, Sandy-Maxhamish	RP
R06167	B, C	RP
R06491	C, D	RP
R06670	B	RP
R06940	B	RP
R06947	C	RP
R07005	Sandy-Maxhamish	RP
R07595	D	RP
R07727	C	RP
R07901	B	RP
R07903	B, B	RP
R08048	D	RP
R08886	C	RP
R08969	E	RP
R08984	C	RP
R09009	B	RP
R09012	C	RP
R09095	C, B	RP
R09148	C, D	RP
R09271	B	RP
R09526	B	RP
R10002	E	RP
R10019	D	RP
R10209	All – master mark for right of way	RP
R10216	B	RP
R10498	C	RP
R10540	D	RP
R10171	F, E	RP
R10868	C	RP
R11447	B	RP
R11485	D	RP
R11490	C	RP
R11499	C	RP
R11541	E	RP
R11545	C	RP
R11719	C	RP
R11810	C	RP
R12005	E	RP
R12670	C	RP
R12708	B	RP
R12773	C	RP
R12856	B	RP
R12932	B	RP
R12950	C	RP
R12954	C	RP
R12977	C	RP
R13183	C	RP
R13263	C	RP
R13295	D	RP
R13853	C	RP
R13865	B	RP
R13947	B	RP
R14007	C	RP
R14065	B	RP

**APPENDIX E: FRPA S196.1 and FRPA S196.2 BLOCKS AS OF DATE OF SUBMISSION**

License	Location	Block	FRPA
A17007	Beaver	BVR3084A	FRPA S196.2
A17007	Beaver	BVR941	FRPA S196.2
A17007	Cabin	CAB2116	FRPA S196.2
A17007	Cabin	CAB2117	FRPA S196.2
A17007	Cabin	CAB2118	FRPA S196.2
A17007	Capot-Blanc	CB845	FRPA S196.1
A17007	Catkin	CAT2592	FRPA S196.2
A17007	Catkin	CAT2593	FRPA S196.1
A17007	Catkin	CAT2594	FRPA S196.2
A17007	Catkin	CAT2594A	FRPA S196.2
A17007	Catkin	CAT2595	FRPA S196.1
A17007	Catkin	CAT5332	FRPA S196.2
A17007	Etane	ETN5050	FRPA S196.2
A17007	Etane	ETN5051	FRPA S196.2
A17007	Etane	ETN5844	FRPA S196.2
A17007	Goguka	GOG2201	FRPA S196.2
A17007	Goguka	GOG6501	FRPA S196.2
A17007	Goguka	GOG6516	FRPA S196.2
A17007	Goguka	GOGH1	FRPA S196.2
A17007	Goguka	GOGH3	FRPA S196.2
A17007	Gote	GOT2056	FRPA S196.2
A17007	Irene	IRN2081	FRPA S196.1
A17007	Irene	IRN2082	FRPA S196.1
A17007	Irene	IRN2083	FRPA S196.2
A17007	Irene	IRN2084	FRPA S196.1
A17007	Irene	IRN2588	FRPA S196.2
A17007	Irene	IRN2597	FRPA S196.1
A17007	Irene	IRN2597A	FRPA S196.1
A17007	Irene	IRN2599	FRPA S196.2
A17007	Irene	IRN2608	FRPA S196.1
A17007	Irene	IRN2610	FRPA S196.2
A17007	Irene	IRN2612	FRPA S196.1
A17007	Irene	IRN2616	FRPA S196.2
A17007	Irene	IRN30	FRPA S196.1
A17007	Kledo	KLD1693	FRPA S196.2
A17007	Kledo	KLD1754	FRPA S196.1
A17007	Kledo	KLD1756	FRPA S196.1
A17007	Kledo	KLD3304	FRPA S196.1
A17007	Kledo	KLD3311	FRPA S196.1
A17007	Kledo	KLD3316	FRPA S196.1
A17007	Kledo	KLD3336	FRPA S196.2
A17007	Kledo	KLD961	FRPA S196.1
A17007	Kledo	KLD962	FRPA S196.1
A17007	Kledo	KLD963	FRPA S196.2
A17007	Klenteh	KLT2217	FRPA S196.2
A17007	Klenteh	KLT2230	FRPA S196.2
A17007	Klua	KLU4899	FRPA S196.2
A17007	Kotcho	KOT1157	FRPA S196.2
A17007	Kotcho	KOT1160	FRPA S196.2
A17007	Kotcho	KOT1161	FRPA S196.2
A17007	Kotcho	KOT1162	FRPA S196.2
A17007	Kotcho	KOT1190	FRPA S196.2
A17007	Kotcho	KOT1192	FRPA S196.2
A17007	Kotcho	KOT1193	FRPA S196.2
A17007	Kotcho	KOT1199	FRPA S196.2
A17007	Kotcho	KOT1200	FRPA S196.2
A17007	Kotcho	KOT1201	FRPA S196.2
A17007	North Dunedin	NDD2524	FRPA S196.2
A17007	Obole	OBL2522	FRPA S196.2
A17007	Pine	PIN1685	FRPA S196.2
A17007	Pine	PIN1686	FRPA S196.2
A17007	Pine	PIN1687	FRPA S196.2

License	Location	Block	FRPA
A17007	Pine	PIN1688	FRPA S196.2
A17007	Pine	PIN1689	FRPA S196.2
A17007	Pine	PIN1690	FRPA S196.2
A17007	Pine	PIN1695	FRPA S196.2
A17007	Sahtaneh	STH1497	FRPA S196.1
A17007	Sahtaneh	STH1502	FRPA S196.2
A17007	Sahtaneh	STH1513A	FRPA S196.2
A17007	Sahtaneh	STH1565	FRPA S196.1
A17007	Sahtaneh	STH1566A	FRPA S196.1
A17007	Sahtaneh	STH1566B	FRPA S196.1
A17007	Sahtaneh	STH2491	FRPA S196.2
A17007	Sahtaneh	STH2492	FRPA S196.2
A17007	Sahtaneh	STH2494	FRPA S196.2
A17007	Sahtaneh	STH2497	FRPA S196.2
A17007	Sahtaneh	STH2498	FRPA S196.2
A17007	Sahtaneh	STH2499	FRPA S196.2
A17007	Sahtaneh	STH2500	FRPA S196.2
A17007	Sahtaneh	STH3260	FRPA S196.1
A17007	Sahtaneh	STH4564	FRPA S196.1
A17007	Sahtaneh	STH4567A	FRPA S196.2
A17007	Sahtaneh	STH4567B	FRPA S196.2
A17007	Sahtaneh	STH4571	FRPA S196.2
A17007	Sahtaneh	STH4573	FRPA S196.2
A17007	Sahtaneh	STH4577	FRPA S196.2
A17007	Sahtaneh	STH4578	FRPA S196.2
A17007	Sahtaneh	STH4581	FRPA S196.2
A17007	Sahtaneh	STH4582	FRPA S196.2
A17007	Sahtaneh	STH4583	FRPA S196.2
A17007	Sahtaneh	STH4584	FRPA S196.2
A17007	Sahtaneh	STH4586	FRPA S196.2
A17007	Sahtaneh	STH4587	FRPA S196.2
A17007	Sahtaneh	STH4588	FRPA S196.2
A17007	Sahtaneh	STH4589	FRPA S196.2
A17007	Sahtaneh	STH4595	FRPA S196.1
A17007	Sahtaneh	STH4602	FRPA S196.1
A17007	Sahtaneh	STH4662	FRPA S196.1
A17007	Sahtaneh	STH4663	FRPA S196.2
A17007	Sahtaneh	STH4664	FRPA S196.2
A17007	Snake	SNK5983	FRPA S196.2
A17007	Torpid	TOR2089	FRPA S196.2
A17007	Torpid	TOR2090	FRPA S196.2
A17007	Torpid	TOR2091	FRPA S196.2
A17007	Torpid	TOR2092	FRPA S196.2
A17007	Torpid	TOR5312	FRPA S196.1
A17007	Torpid	TOR5357	FRPA S196.2
A17007	Torpid	TOR5359	FRPA S196.2
A17007	Tsoo	TSO5837	FRPA S196.1
A17007	Tsoo	TSO5840	FRPA S196.2
PA #14	Akue	AK6859	FRPA S196.2
PA #14	Akue	AK6866	FRPA S196.2
PA #14	Akue	AK6867	FRPA S196.2
PA #14	Akue	AK6894	FRPA S196.2
PA #14	Akue	AK6895	FRPA S196.2
PA #14	Akue	AK6896	FRPA S196.2
PA #14	Akue	AK6897	FRPA S196.2
PA #14	Cabin	CAB2104	FRPA S196.2
PA #14	Cabin	CAB2106	FRPA S196.2
PA #14	Cabin	CAB2107	FRPA S196.2
PA #14	Cabin	CAB2108	FRPA S196.2
PA #14	Catkin	CAT5333	FRPA S196.2
PA #14	Catkin	CATP10	FRPA S196.2

License	Location	Block	FRPA
PA #14	Catkin	CATP11	FRPA S196.2
PA #14	Catkin	CATP12	FRPA S196.2
PA #14	Catkin	CATP13	FRPA S196.2
PA #14	Catkin	CATP14	FRPA S196.2
PA #14	Catkin	CATP15	FRPA S196.2
PA #14	Catkin	CATP16	FRPA S196.2
PA #14	Catkin	CATP17	FRPA S196.2
PA #14	Catkin	CATP21	FRPA S196.2
PA #14	Catkin	CATP27	FRPA S196.2
PA #14	Catkin	CATP28	FRPA S196.2
PA #14	Catkin	CATP66	FRPA S196.2
PA #14	Catkin	CATP67	FRPA S196.2
PA #14	Catkin	CATP69	FRPA S196.2
PA #14	Catkin	CATP70	FRPA S196.2
PA #14	Elleh	ELH2050	FRPA S196.1
PA #14	Etane	ETN2388	FRPA S196.2
PA #14	Etane	ETN2389	FRPA S196.2
PA #14	Etane	ETN2390	FRPA S196.2
PA #14	Etane	ETN2391	FRPA S196.2
PA #14	Etane	ETN2392	FRPA S196.2
PA #14	Etane	ETN2393	FRPA S196.2
PA #14	Etane	ETN2394	FRPA S196.2
PA #14	Etane	ETN2395	FRPA S196.2
PA #14	Etane	ETN2396	FRPA S196.2
PA #14	Etane	ETN926	FRPA S196.2
PA #14	Etane	ETN927	FRPA S196.2
PA #14	Etane	ETN928	FRPA S196.2
PA #14	Etane	ETN933	FRPA S196.1
PA #14	Etane	ETN934	FRPA S196.2
PA #14	Etane	ETN935	FRPA S196.2
PA #14	Etane	ETN936	FRPA S196.2
PA #14	Gote	GOT2100	FRPA S196.2
PA #14	Gote	GOT2101	FRPA S196.2
PA #14	Gote	GOT2102	FRPA S196.2
PA #14	Gote	GOT2200	FRPA S196.2
PA #14	Gote	GOT2202	FRPA S196.2
PA #14	Irene	IRN2609	FRPA S196.1
PA #14	Irene	IRNP33	FRPA S196.2
PA #14	Irene	IRNP34	FRPA S196.1
PA #14	Irene	IRNP60	FRPA S196.2
PA #14	Irene	IRNP61	FRPA S196.2
PA #14	Kiwigana	KIW2218	FRPA S196.2
PA #14	Kledo	KLD3302	FRPA S196.2
PA #14	Kledo	KLD3303	FRPA S196.2
PA #14	Kledo	KLD3305	FRPA S196.2
PA #14	Kledo	KLD3312	FRPA S196.2
PA #14	Kledo	KLD3313	FRPA S196.2
PA #14	Kledo	KLD3334	FRPA S196.2
PA #14	Kledo	KLD3335	FRPA S196.2
PA #14	Kledo	KLD3357	FRPA S196.2
PA #14	Kledo	KLD3382	FRPA S196.2
PA #14	Klenteh	KLT002	FRPA S196.2
PA #14	Klenteh	KLT2203	FRPA S196.2
PA #14	Klenteh	KLT2204	FRPA S196.2
PA #14	Klenteh	KLT2205	FRPA S196.2
PA #14	Klenteh	KLT2206	FRPA S196.2
PA #14	Klenteh	KLT2207	FRPA S196.2
PA #14	Klenteh	KLT2208	FRPA S196.2
PA #14	Klenteh	KLT2209	FRPA S196.2
PA #14	Klua	KLU4684	FRPA S196.2
PA #14	Milo	MIL1921	FRPA S196.1
PA #14	Milo	MIL1922	FRPA S196.1
PA #14	Milo	MIL1923	FRPA S196.1
PA #14	Milo	MIL1926	FRPA S196.1

License	Location	Block	FRPA
PA #14	Milo	MIL1927	FRPA S196.1
PA #14	Milo	MIL1928	FRPA S196.1
PA #14	Milo	MIL1929	FRPA S196.1
PA #14	Milo	MIL1930	FRPA S196.1
PA #14	Milo	MIL1931	FRPA S196.1
PA #14	Milo	MIL1932	FRPA S196.1
PA #14	Milo	MIL1933	FRPA S196.1
PA #14	Milo	MIL1934	FRPA S196.1
PA #14	Milo	MIL1935	FRPA S196.1
PA #14	Milo	MIL6860	FRPA S196.2
PA #14	Milo	MIL6861	FRPA S196.2
PA #14	Milo	MIL6862	FRPA S196.2
PA #14	Milo	MIL6864	FRPA S196.2
PA #14	Milo	MIL6865	FRPA S196.2
PA #14	Milo	MIL6868	FRPA S196.2
PA #14	Milo	MIL6869	FRPA S196.2
PA #14	Milo	MIL6899	FRPA S196.2
PA #14	North Dunedin	NDD118	FRPA S196.1
PA #14	North Dunedin	NDD119	FRPA S196.1
PA #14	North Dunedin	NDD120	FRPA S196.1
PA #14	North Dunedin	NDD121	FRPA S196.1
PA #14	North Dunedin	NDD122	FRPA S196.1
PA #14	North Dunedin	NDD126	FRPA S196.1
PA #14	North Dunedin	NDD127	FRPA S196.1
PA #14	North Dunedin	NDD136	FRPA S196.1
PA #14	North Dunedin	NDD137	FRPA S196.1
PA #14	North Dunedin	NDD138	FRPA S196.1
PA #14	North Dunedin	NDD139	FRPA S196.1
PA #14	North Dunedin	NDD140	FRPA S196.1
PA #14	North Dunedin	NDD142	FRPA S196.1
PA #14	North Dunedin	NDD144	FRPA S196.1
PA #14	North Dunedin	NDD218	FRPA S196.1
PA #14	North Dunedin	NDD2502	FRPA S196.1
PA #14	North Dunedin	NDD2503	FRPA S196.1
PA #14	North Dunedin	NDD2504	FRPA S196.1
PA #14	North Dunedin	NDD2505	FRPA S196.1
PA #14	North Dunedin	NDD2506	FRPA S196.1
PA #14	North Dunedin	NDD2508	FRPA S196.1
PA #14	North Dunedin	NDD2509	FRPA S196.1
PA #14	North Dunedin	NDD2510	FRPA S196.1
PA #14	North Dunedin	NDD2526	FRPA S196.2
PA #14	North Dunedin	NDD2527	FRPA S196.2
PA #14	North Dunedin	NDD2529	FRPA S196.2
PA #14	North Dunedin	NDD2530	FRPA S196.2
PA #14	North Dunedin	NDD2531	FRPA S196.2
PA #14	North Dunedin	NDD2532	FRPA S196.2
PA #14	Obole	OBL2386	FRPA S196.2
PA #14	Obole	OBL5360	FRPA S196.2
PA #14	Obole	OBL5385	FRPA S196.2
PA #14	Odayin	ODY3307	FRPA S196.2
PA #14	Odayin	ODY3308	FRPA S196.2
PA #14	Odayin	ODY3309	FRPA S196.2
PA #14	Odayin	ODY5300	FRPA S196.1
PA #14	Odayin	ODY5339	FRPA S196.2
PA #14	Odayin	ODY5343	FRPA S196.2
PA #14	Odayin	ODY5344	FRPA S196.2
PA #14	Odayin	ODY5345	FRPA S196.2
PA #14	Odayin	ODY5351	FRPA S196.2
PA #14	Odayin	ODY5352	FRPA S196.2
PA #14	Parker	PRK6937B	FRPA S196.2
PA #14	Parker	PRK6938	FRPA S196.2
PA #14	Parker	PRK6939	FRPA S196.2
PA #14	Parker	PRK6940	FRPA S196.2
PA #14	Patry	PAT177	FRPA S196.2

License	Location	Block	FRPA
PA #14	Patry	PAT5799	FRPA S196.2
PA #14	Patry	PAT760	FRPA S196.2
PA #14	Raspberry	RBY3322	FRPA S196.2
PA #14	Raspberry	RBY3323	FRPA S196.2
PA #14	Sahtaneh	STH1507	FRPA S196.1
PA #14	Sahtaneh	STH1521	FRPA S196.1
PA #14	Sahtaneh	STH1522	FRPA S196.1
PA #14	Sahtaneh	STH1523	FRPA S196.2
PA #14	Sahtaneh	STH2493	FRPA S196.2
PA #14	Sahtaneh	STH2495	FRPA S196.2
PA #14	Sahtaneh	STH2496	FRPA S196.2
PA #14	Sahtaneh	STH4552	FRPA S196.1
PA #14	Sahtaneh	STH4553	FRPA S196.1
PA #14	Sahtaneh	STH4555	FRPA S196.2
PA #14	Sahtaneh	STH4557	FRPA S196.2
PA #14	Sahtaneh	STH4561	FRPA S196.2
PA #14	Sahtaneh	STH4562	FRPA S196.2
PA #14	Sahtaneh	STH4566	FRPA S196.2
PA #14	Sahtaneh	STH4568A	FRPA S196.2
PA #14	Sahtaneh	STH4568B	FRPA S196.2
PA #14	Sahtaneh	STH4569	FRPA S196.2
PA #14	Sahtaneh	STH4570	FRPA S196.2
PA #14	Sahtaneh	STH4572	FRPA S196.2
PA #14	Sahtaneh	STH4574	FRPA S196.2
PA #14	Sahtaneh	STH4576	FRPA S196.2
PA #14	Sahtaneh	STH4649	FRPA S196.1
PA #14	Sahtaneh	STH4651	FRPA S196.1
PA #14	Sahtaneh	STH4854	FRPA S196.2
PA #14	Sahtaneh	STH4855	FRPA S196.2
PA #14	Snake	SNK5981	FRPA S196.2
PA #14	Snake	SNK5982	FRPA S196.2
PA #14	Snake	SNK5984	FRPA S196.2
PA #14	Snake	SNK5985	FRPA S196.2
PA #14	Snake	SNK5986	FRPA S196.2
PA #14	Snake	SNK5987	FRPA S196.2
PA #14	Snake	SNK5988	FRPA S196.2
PA #14	Snake	SNK5989	FRPA S196.2
PA #14	Snake	SNK5990	FRPA S196.2
PA #14	Snake	SNK5991	FRPA S196.2
PA #14	Snake	SNK5992	FRPA S196.2
PA #14	Snake	SNK5993	FRPA S196.2
PA #14	Snake	SNK5995	FRPA S196.2
PA #14	Snake	SNK5996	FRPA S196.2
PA #14	Snake	SNK5997	FRPA S196.1
PA #14	Snake	SNK5999	FRPA S196.2
PA #14	Steamboat	STB3356	FRPA S196.2
PA #14	Torpid	TOR103	FRPA S196.1
PA #14	Torpid	TOR114	FRPA S196.2
PA #14	Torpid	TOR115	FRPA S196.1
PA #14	Torpid	TOR175	FRPA S196.1
PA #14	Torpid	TOR5358	FRPA S196.2
PA #14	Torpid	TOR5362	FRPA S196.2
PA #14	Torpid	TOR5363	FRPA S196.2
PA #14	Torpid	TORP71	FRPA S196.1
PA #14	Torpid	TORP76	FRPA S196.2
PA #14	Torpid	TORP77	FRPA S196.1
PA #14	Tsimeh	TSM4954	FRPA S196.2
PA #14	Tsimeh	TSM5909	FRPA S196.2
PA #14	Tsimeh	TSM5910	FRPA S196.2
PA #14	Tsimeh	TSM5918	FRPA S196.1
PA #14	Tsoo	TSO376	FRPA S196.1
PA #14	Tsoo	TSO5832	FRPA S196.2
PA #14	Tsoo	TSO5833	FRPA S196.2
PA #14	Tsoo	TSO5836	FRPA S196.1

License	Location	Block	FRPA
PA #14	Tsoo	TSO5839	FRPA S196.1
PA #14	Tsoo	TSO910	FRPA S196.2
PA #14	Tsoo	TSO911	FRPA S196.2
PA #14	Tsoo	TSO912	FRPA S196.1
PA #14	Tsoo	TSO913	FRPA S196.2
PA #14	Tsoo	TSO923	FRPA S196.2
PA #14	Tsoo	TSO924	FRPA S196.2
PA #14	Tsoo	TSO925	FRPA S196.2
PA #14	Tsoo	TSO932	FRPA S196.1



**BC Timber Sales  
Peace-Liard Business Area**

**Forest Stewardship Plan  
Fort Nelson Timber Supply Area**

**March 2008**

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## APPENDICES

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**Tab 2: APPENDIX 2: FSP MAPS**

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Table 2 Road Permits in Effect on the FSP Submission Date

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Ministry Of Environment Order: Category of Species at Risk (June 2006)

Ministry Of Environment Notice: Indicators of the Amount, Distribution and Attributes of Wildlife

Habitat Required for the Survival of Species at Risk in the Fort Nelson Forest District

Ministry Of Environment Notice: Indicators of the Amount, Distribution and Attributes of Wildlife

Habitat Required for the Winter Survival of Ungulate Species in the Fort Nelson Timber Supply Area

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## 1.0 Introduction

This Forest Stewardship Plan (FSP) has been prepared for British Columbia Timber Sales (BCTS) Peace-Liard Business Area. This FSP applies to the identified forest development units located within the Fort Nelson Timber Supply Area.

## 2.0 Interpretation

### 2.1 Definitions of Terms or Acronyms used in this FSP

In this FSP:

“**Agreement Holder**” means the holder of a Timber Sale License or Road Permit granted by the TSM to which this FSP applies

“**BCTS**” means British Columbia Timber Sales, Peace-Liard Business Area

“**Canfor**” means Canadian Forest Products, Fort Nelson Division

“**Commencement Date**” means the date the term of this FSP begins, as specified in Paragraph 3.3 of this FSP

“**Cutblock**” means an area where authorized timber harvesting operations will occur (i.e. Timber Sale License)

“**FNLRMP**” means Fort Nelson Land and Resource Management Plan

“**FDU**” means the forest development unit under this FSP

“**FPC**” means the *Forest Practices Code of British Columbia Act* RSBC 1996, c. 159

“**FPPR**” means the *Forest Planning and Practices Regulation*, B.C Reg. 14/2004

“**FRPA**” means the *Forest and Range Practices Act*, SBC 2002, c. 69

“**FSP**” means this Forest Stewardship Plan

“**Harvest Unit**” means a contiguous area where timber harvesting operations including wildlife tree retention areas will apply and is comprised of one or more cutblocks (i.e. Timber Sale Licenses) integral to the harvest unit.

“**Holder of this FSP**” means the Timber Sales Manager for BC Timber Sales Peace-Liard Business Area

“**OGMA**” means established Old Growth Management Area

“**Submission Date**” means the date specified in Paragraph 3.1 of this FSP

“**Term**” means the period specified in Paragraph 3.2 of this FSP

“**FNTSA**” means the Fort Nelson Timber Supply Area

“**TSL**” means a Timber Sale License

“**TSM**” means the Timber Sales Manager for BC Timber Sales Peace-Liard Business Area

“**WTRA**” means wildlife tree retention area, synonymous with wildlife tree patch

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## **2.2 Tenses**

In this FSP, the singular includes the plural and the plural includes the singular, unless the context indicates otherwise.

## **2.3 Definitions Under Acts and Regulations**

Unless otherwise explicitly indicated, or indicated by context, terms used in this FSP have their meaning defined in the *Forest and Range Practices Act*, *Forest Act* and their respective Regulations.

## **3.0 *Submission Date, Commencement Date and Term of this FSP***

### **3.1 Date of Submission**

The date of submission of this FSP is **March 27, 2008**

### **3.2 Term of this FSP**

The Term of the FSP is five (5) years measured from the Commencement Date. All results and strategies within this FSP are for the term of this FSP.

### **3.3 Commencement Date of this FSP.**

The commencement date of this FSP is the date of FSP approval by the Ministry of Forests and Range.

## **4.0 *Application of this FSP and Transition Cutblocks and Roads***

### **4.1 This FSP applies to:**

1. (a) a timber sales license advertised and entered into by the TSM to which Section 3(2) of FRPA applies; and  
(b) a road permit granted by the TSM to a person holding a timber sales license referred to in subparagraph (a);
2. an access road constructed by the TSM to an area to be harvested under a timber sales license referred to in paragraph 1.

## 4.2 Forest Development Units

### 4.2.1 Area Covered by the FDU

Four (4) FDUs apply to this FSP as shown in *Figure 1* and the FSP Forest Development Unit map in *Appendix 2*. The FDUs incorporate all BCTS operating areas within the Fort Nelson TSA (FNTSA) as well as incorporating additional Crown Forest area within FNTSA that is outside of these operating areas. Exclusions where this FSP will not apply and where BCTS harvesting or road construction activity within the FNTSA will not occur are:

- private land designations
- First Nations reservations
- provincial parks
- protected areas
- other areas under enactment prohibiting harvest development

### 4.2.2 Approved Cutblocks and Roads within the FDUs

The FDUs for this FSP on the Forest Development Unit map in *Appendix 2* incorporate:

- (a) cutblocks that are subject to a timber sale license issued by the TSM;
- (b) roads that are subject to a road permit issued by the TSM;
- (c) FRPA 196(1) cutblocks, and
- (d) FRPA 196(1) roads.

### 4.2.3 BCTS Operations within Woodlots, Community Forests and Other Area Based Forest Tenures

The FDUs incorporate the Crown Forest portion of woodlots, Community Forest Agreements and other area based agreements granted under the auspices of the *Forest Act*, Section 11, that are within the FNTSA and are outside of BC Timber Sales traditional operating areas. This FSP does not apply to BCTS harvest and road construction operations within these area based tenures subject to the following:

- (a) any harvesting and road construction activity within an area based tenure requires agreement by the tenure holder and must be conducted in accordance with the applicable FSP or management plan governing the area based tenure or in the case of woodlots, in accordance with the Woodlot License Plan

## 4.3 Transition - FRPA Section 196 (1) Cutblocks and Roads

Table 1 in *Appendix 3* lists the Category A cutblocks that are areas to which the FRPA, Section 196 (1) and FPPR, Section 14 (1) apply. Locations of the 196 (1) cutblocks and associated approved access roads are shown on the 1:50,000 scale FSP maps in *Appendix 2*.

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**4.4 Transition – Timber Sale Licenses and Road Permits in Effect on the FSP Submission Date**

Table 2 in *Appendix 3* lists the Road Permits that are areas to which the FRPA, Section 19, and the FPPR, Section 14 (3) apply and are in effect at the time of submission of this FSP. These areas are shown on the 1:50,000 scale FSP maps in *Appendix 2*.

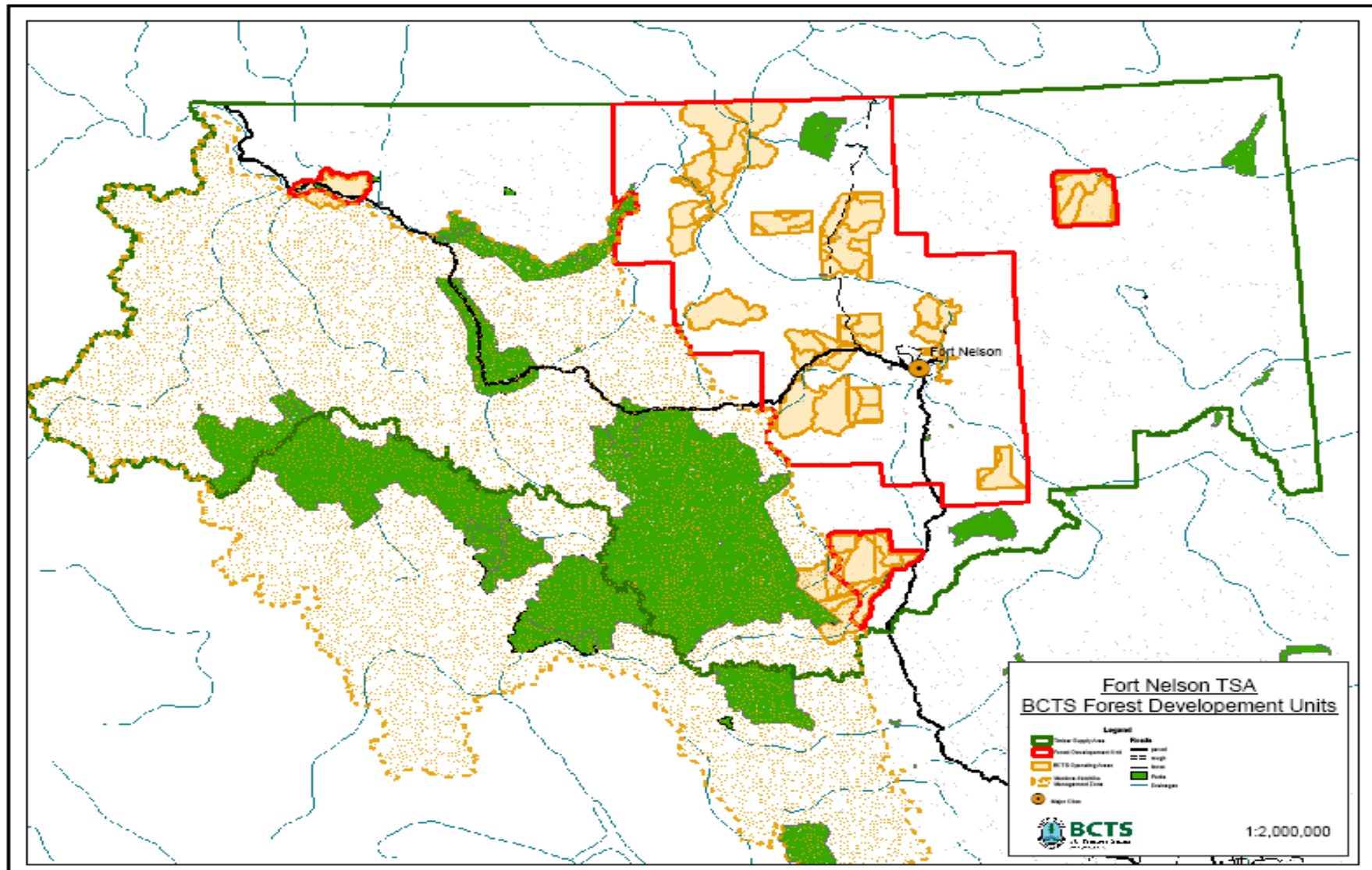


Figure 1: BCTS Forest Development Units

## **5.0 RESULTS and STRATEGIES for GOVERNMENT OBJECTIVES**

Any or all practice requirements of the FPPR, Part 4, adopted as a result or strategy in this FSP for consistency with meeting government objectives, are as they were on the date this FSP was submitted for approval.

Results or strategies apply to all FDUs in this FSP.

### **5.1 Objectives Set by Government for Soils**

Legal Reference: FPPR, Section 5, and Section 12.2

For all FDUs covered by this FSP, the holder of this FSP will undertake to comply with the practice requirements of FPPR, Sections 35 and 36.

Scale of Measurement: Cutblock and Standards Unit

Map Reference: N/A

### **5.2 Objectives Set by Government for Wildlife**

Legal Reference: FPPR, Section 7; FRPA, Section 182

The following results or strategies apply to the holder of this FSP:

#### **5.2.1 Species at Risk**

1. Species at risk are identified in the Ministry of Environment Order: Categories of Species at Risk effective May 6, 2004, and through a supplemental Order: Category of Species at Risk effective June 5, 2006 (*Appendix 4*). Species at risk (SAR) occurring within the Fort Nelson TSA are:

- (a) Fish: Bull Trout
- (b) Birds: Bay-Breasted Warbler, Black-throated Green Warbler, Cape May Warbler, Connecticut Warbler, Sandhill Crane, Short-eared Owl
- (c) Mammals: Boreal Caribou, Fisher, Grizzly Bear, Wolverine, Northern Caribou

Boreal Caribou is the only SAR species that has specific government management intent for these species established under Notices issued by the Ministry Of Environment as described elsewhere in section 5.2. Boreal Caribou core areas (draft) are available spatially that are considered best available information from the Ministry of Environment pending approval as Wildlife Habitat Areas (WHA).

No specific Notices or objectives for management are established by government for the remaining species at risk.

2. Boreal Caribou:

With respect to the government Notice: “Indicators of the Amount, Distribution and Attributes of Wildlife Habitat Required for the Survival of Species at Risk in the Fort

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Nelson Forest District” (*Appendix 4*) issued March 2, 2006, in accordance with Section 7 of the FPPR:

- (a) unless directed otherwise by the Fort Nelson District Manager, the holder of this FSP will ensure that no harvesting or road construction will occur within,
  - (i) 24,900 hectares in the non-contributing portion of the Fort Nelson Forest District that meets the distribution and attributes described in the Notice for Boreal Caribou habitat, and
  - (ii) resulting in an impact to the mature timber harvesting landbase not exceeding zero (0) hectares.

### **5.2.2 Conservation of Regionally Important Wildlife and Ungulate Winter Range Habitat**

#### **1. Regionally Important Wildlife:**

The Ministry of Environment has not identified regionally important wildlife applicable to an area within the FDUs covered by this FSP.

#### **2. Ungulate Winter Range for Rocky Mountain Elk, Boreal Caribou**

With respect to the government Notice: “Indicators of the Amount, Distribution and Attributes of Wildlife Habitat Required for the Winter Survival of Ungulate Species in the Fort Nelson Timber Supply Area” (*Appendix 4*) issued March 2, 2006 in accordance with Section 7 of the FPPR:

##### Rocky Mountain Elk

- (a) unless directed otherwise by the Fort Nelson District Manager, the holder of this FSP will ensure that no harvesting or road construction will occur within,
  - (i) 58,380 hectares distributed to provide winter range for Elk within the Muskwa River Corridor 28, Tenaka 9 and Dunedin 6 Resource Management Zones (RMZ), the latter described in the Fort Nelson Land and Resource Management Plan (FNLRMP), that meets the attributes described in the Notice for Rocky Mountain Elk habitat, and
  - (ii) resulting in an impact to the timber harvesting landbase not exceeding 1017 hectares

##### Boreal Caribou

- (a) Boreal caribou ungulate winter range areas (draft) are available spatially that are considered best available information from the Ministry of Environment pending approval as Ungulate Winter Range (UWR) areas.
- (b) unless directed otherwise by the Fort Nelson District Manager, the holder of this FSP will ensure that no harvesting or road construction will occur within,
  - (i) 190,472 hectares distributed to provide winter range for Boreal Caribou within the Etsho 2, Klua 4, Petitot/Hay River Corridors 12 and River Corridors East 13 Resource Management Zones (RMZ), the latter described in the Fort Nelson



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Land and Resource Management Plan (FNLRMP), that meets the attributes described in the Notice for Boreal Caribou habitat, and

- (ii) resulting in a impact to the timber harvesting landbase not exceeding 3050 hectares

### 5.2.3 Wildlife Habitat Areas

No known Wildlife Habitat Areas have been established within any of the FDUs covered by this FSP

Scale of Measurement: Draft Boreal Caribou ungulate winter range areas; Resource Management Zones of the FNLRMP

Map Reference: Draft Boreal Caribou ungulate winter range areas as shown on maps in *Appendix 2*

### 5.3 Objectives Set by Government for Wildlife and Biodiversity – Landscape Level

Legal Reference: FPPR, Section 9 and Section 12.4

Definitions that apply to this section:

“**young seral forest**” means conifer stands less than 20 years age, deciduous stands less than 20 years age.

#### Result or Strategy

1. With respect to the government Order – “Establishing Provincial Non-Spatial Old Growth Objectives” effective June 30, 2004 (*Appendix 5*), and established under Section 4 of the *Forest Practices Code of British Columbia Act*, the following results and strategies apply to this Order and to all FDUs covered by this FSP:
  - (a) subject to subparagraph (b) and in conjunction with other forest license agreement holders operating within a particular landscape unit, the holder of this FSP will act in a manner consistent with maintaining at least the minimum percent of old seral forest within a biogeoclimatic (BEC) zone of a landscape unit, as set out in the Order;
  - (b) if the BEC zone of a particular landscape unit is deficient in old seral forest, the holder of this FSP will not plan for new Timber Sale Licenses within that BEC zone that incorporate harvest of more than five (5) contiguous hectares of old seral forest - considered incidental harvest - until
    - (i) the BEC zone of the landscape unit has achieved the minimum percent of old seral forest or
    - (ii) the agency of government responsible for administering the Fort Nelson TSA Landscape Unit Objective has approved a recruitment strategy for old seral forest.

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2. Management of young seral forest within a particular landscape unit will apply the patch size distribution targets by Natural Disturbance Type (NDT) methodology detailed in Landscape Unit Planning Guide (LUPG), March 1999. The following results and strategies apply to all FDUs covered by this FSP:
- (a) the practice requirements of Sections 64(1) and 65(2) of the FPPR do not apply to the FDUs covered by this FSP
  - (b) subject to subparagraph (c) and (d), and in conjunction with other forest license agreement holders operating within a particular landscape unit, the holder of this FSP will act in a manner consistent with managing young seral forest toward the NDT targets for patch size distribution as measured from the Commencement Date to the expiry date of this FSP
  - (c) where a trend toward the NDT target patch size distribution cannot be achieved, the holder of this FSP will participate in providing the appropriate government agency with:
    - (i) a rationale for the trend away from the patch size distribution, and
    - (ii) a strategy for how the objective will be achieved in the shortest timeframe as is practicable, with consideration of the FSP holders' harvesting rights.
  - (d) where harvest development occurs within the BWBS biogeoclimatic (BEC) zone of the NDT3 and where Douglas Fir is restricted or absent (i.e. Table A2.15 of the LUPG – *Appendix 5*), the patch size category of greater than 250 hectares will have no upper limit on permissible patch size (i.e. may exceed 1000 hectares).

Scale of Measurement: Biogeoclimatic (BEC) zone(s) within a Landscape Unit; Natural Disturbance Type (NDT) within a Landscape Unit; Seral class measurement by the Vegetation Resources Inventory (VRI)

Map Reference: Biogeoclimatic and Landscape Unit map in *Appendix 2*

#### ***5.4 Objectives Set by Government for Wildlife and Biodiversity – Stand Level***

Legal Reference: FPPR, Section 9.1, and Section 12.5

For the purposes of this section, the following definition applies:

“**cutblock development**” means on the ground positioning of cutblock boundaries and completing related fieldwork as required (e.g. wildlife tree retention area placement; assessments, standard units delineation, mapwork, etc.) including the preparation of a site plan.

##### Result or Strategy

The following results or strategies apply to the holder of this FSP:

1. Wildlife tree retention strategies apply to the total area of a harvest unit.
2. Ensure that where cutblock development is completed on one or more harvest units during the successive 12 month period beginning April 1 of any calendar year, that the total area

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covered by wildlife tree retention areas relating to the harvest units is a minimum of 7% of the total collective area of the harvest units.

3. For harvest units that are greater than 15 hectares in size, the total amount of wildlife tree retention areas that relates to the harvest unit is a minimum of 3.5% of the total area of the harvest unit.
4. For the purposes of (1) and (2) above, a wildlife tree retention area may relate to more than one harvest unit if all of the harvest units that relate to the wildlife tree retention area collectively meet the applicable requirements of this section.
5. Timber harvesting will not be authorized within a wildlife tree retention (WTRA) area unless:
  - (1) the trees on the net area to be reforested (NAR) of the harvest unit to which the WTRA relates have developed attributes that are consistent with mature seral retention;
  - (2) subject to (3), one or more of the following circumstances or conditions are applicable to the WTRA:
    - (a) roaded access to develop future harvest units is required that impacts a WTRA and no other practicable alternative exists;
    - (b) removal of one or more trees is necessary to ensure worker safety;
    - (c) trees within the WTRA have been significantly damaged by windthrow, fire, pest damage or other disturbance agents or the stand condition within the WTRA represents a significant forest health risk to surrounding stands.
  - (3) prior to authorizing and carrying out a primary forest activity within a WTRA, the Timber Sales Manager will
    - (a) require an assessment of the WTRA by qualified registered professional to determine whether or not the ecological value and function of the WTRA will be lost or severely compromised (i.e. detrimental effect) as a result of carrying out activities under subsection 5(2).
    - (b) where an assessment in (a) identifies a detrimental effect to the WTRA as a result of carrying out activities under subsection 5(2) that remove the WTRA in whole or part,
      - i. the harvested WTRA will be replaced with a suitable WTRA of equivalent size and functionality and
      - ii. the WTRA replacement area will be spatially located as near to the original WTRA as practicable.
    - (c) where the assessment in (a) identifies no detrimental effect on the WTRA as a result of carrying out activities under 5(2), the WTRA will not require replacement.

Scale of Measurement: Harvest unit and/or series of harvest units that contribute wildlife tree retention areas.

Map Reference: N/A.

## 5.5 Objectives Set by Government for Water, Fish, Wildlife and Biodiversity Within Riparian Areas

Legal Reference: FPPR, Section 8, and Sections 12 (3) and 12.1 (6)

For all FDUs covered by this FSP, the holder of this FSP will undertake to comply with FPPR Sections 47 to 51, 52 (2) and 53.

For the purposes of FPPR, Section 12(3), for all FDUs covered by this FSP, the following result or strategy relates to the retention of trees within a riparian management zone:

1. Tree retention within a riparian management zone will be consistent with the minimum levels prescribed in **Table 1** subject to the requirements of subsection (2):

**Table 1**

Streams	** % Retention in Riparian Management Zones (RMZ) Moderate/High Windthrow Hazard	** % Retention in Riparian Management Zones (RMZ) Low Windthrow Hazard
S1-A/B	>=25-100	>=0-100
S2	>=25-100	>=0-100
S3	>=25-100	>=0-100
S4	>=0-100	>=0-100
S5	>=0-100	>=0-100
S6	>=0-100	>=0-100
<b>Wetlands</b>		
W1	>=25-100	>=0-100
W3	>=0-100	>=0-100
W5	>=25-100	>=0-100
<b>Lakes</b>		
L1-B	>=25-100	>=0-100
L3	>=0-100	>=0-100

\*\* Retention may be variable within the RMZ. Trees retained may occur in various spatial arrangements including contiguous unharvested patches or single trees covering portions or all of the RMZ. Two forms of retention – basal area based and area based - will be used either exclusively or in combination when developing the retention prescription within the RMZ. Basal area retention, measured in square metres (m<sup>2</sup>) of the original basal area within the RMZ, will normally apply to single tree retention. Area based retention will constitute retaining trees within the RMZ as contiguous unharvested patches measured in hectares (ha) of the original area of the RMZ.

2. where a primary forest activity occurs within a riparian management zone (RMZ):
  - (A) fall and yard away from stream channels to the extent practicable;
  - (B) establish a five (5) metre machine free zone adjacent to the streambank of all S4, S5 and S6 streams where tracks or wheels of ground based machinery are not permitted unless required to establish a stream crossing;

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- (C) within the five (5) metre machine free zone in (B) above, retain to the extent practicable, all non-commercial forest cover including brush species, advanced regeneration and non-merchantable conifer and deciduous species unless required:
- (i) to establish a stream crossing;
  - (ii) to facilitate cable or aerial yarding across or adjacent to the stream (including guyline tiebacks and full suspension clearance);
  - (iii) to address forest health concerns;
  - (iv) to address safety concerns;
  - (v) to facilitate manual brushing to release crop trees from competing vegetation to the extent necessary to meet silviculture obligations.
- (D) prior to commencement of the primary forest activity within a RMZ, a qualified registered professional will adhere to the minimum retention specifications in **Table 1** and specify and prescribe the level of tree retention within the RMZ in a signed and sealed written rationale that addresses the following:
- (a) consistency with the factors in FPPR Schedule 1, Section 2,
  - (b) the relative importance and sensitivity of the different riparian classes for streams, wetlands and lakes in conserving water quality, fish habitat, wildlife habitat and biodiversity and
  - (c) any inherent characteristics or attributes within of the riparian management zone that potentially affect retention objectives including but not limited to the following:
    - i. safety hazards;
    - ii. windthrow risk and windfirmness of trees within the RMZ as determined from a windthrow hazard assessment using the principles described in the publication "*Windthrow Handbook for British Columbia Forests 1994* or its equivalent,
    - iii. the role of the riparian management zone in maintaining the integrity of any associated riparian reserve zone;
    - iv. forest health issues that necessitate tree removal;
    - v. potential for adverse soil erosion and sediment transfer to stream;
    - vi. maintaining stream bank and channel stability;
    - vii. conservation and protection of high value riparian wildlife habitats associated with identified species at risk and non-species at risk including but not limited to high value forage areas, high use game trails, denning sites, nesting sites, large wildlife trees and coarse woody debris recruitment.
  - (d) legislated requirements to retain sufficient numbers of trees adjacent to a S4, S5 or S6 stream where the stream is a direct tributary to a S1, S2 or S3 stream and
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such trees contribute significantly to the maintenance of stream bank or channel stability.

- (e) requirements of a strictly operational nature that may affect retention objectives within the RMZ including but not limited to the construction of stream crossings and requirements for cable or aerial yarding across or adjacent to the RMZ (e.g. guyline tiebacks and full suspension clearance).

3. the level of retention within the RMZ that is specified and prescribed by a qualified registered professional in 2 (D) in adherence to the requirements of that subsection is an integral part of the harvest development for the cutblock and

- (a) will be achieved where a primary forest activity occurs within the RMZ and
- (b) will be made available to the District Manager, Fort Nelson Forest District upon request.

Scale of Measurement: Pre-harvest and Post harvest Basal Area Measurement (m<sup>2</sup>) or Area (hectares) of Riparian Management Zone (RMZ)

Map Reference : N/A.

### ***5.6 Objectives Set by Government for Visual Quality***

Legal Reference: FPPR, Section 9.2

#### **Result or Strategy**

For all FDUs covered by this FSP, the holder of this FSP will ensure that where primary forest activities occur within known scenic areas that these activities are consistent with the established visual quality objective(s) (VQO) or recommended VQO of the known scenic areas.

Scale of Measurement: Known scenic area polygons and their respective VQO

Map Reference : All known scenic area polygons and their respective VQO as shown on the FDU map

### ***5.7 Objectives Set by Government for Cultural Heritage Resources***

Legal Reference: FPPR, Section 10

For the purposes of this result or strategy, the following definitions apply:

“**primary forest activity**” is defined in the FPPR Definitions, Section 1 (1), meaning “one or more of the following: (a) timber harvesting; (b) silviculture treatments; (c) road construction, maintenance and deactivation”.

“**cultural heritage resource**” is defined in the *Forest Act* Definitions, Section 1 (1), meaning “an object, a site or the location of a traditional societal practice that is of historical, cultural or archaeological significance to British Columbia, a community or an aboriginal people”.

Within the context of this result or strategy, the definition’s application is limited to those cultural heritage resources that are the focus of a traditional use by an aboriginal people that

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are of continuing importance to that people, and not regulated under the Heritage Conservation Act.

“**cultural heritage resource evaluation**” is an assessment and/or evaluation conducted by a qualified person that provides expert opinion concerning the nature and extent of the cultural heritage resource, potential impacts to the resource from harvest development and management recommendations for the resource that consider:

- (a) the relative value or importance of the cultural heritage resource to a traditional use by an aboriginal people;
- (b) the relative abundance or scarcity of the cultural heritage resource that is the focus of a traditional use by an aboriginal people;
- (c) the historical extent of the traditional use by an aboriginal people of the cultural heritage resource; and
- (d) the impact that any conservation or protection measures for the cultural heritage resource has on the Timber Sale Manager’s ability to develop and harvest timber from an area.

For the purposes of the above, a “**qualified person**” is considered to be an individual, through a combination of education, training and/or experience, who can reasonably be expected to objectively assess and provide “expert opinion” regarding the presence and/or significance of a cultural heritage resource (CHR). Such a qualified person must be cognizant of the real or perceived value of the CHR to a First Nations people and be able to make recommendations for protecting or conserving a CHR relative to its value or interest to the First Nations people while considering any constraints that may impact on BCTS’ ability to develop timber opportunities. While not necessarily the case, a “qualified person” acceptable to BCTS would likely hold the credentials of a professional archaeologist or similar professional specializing in the above field of expertise. Any such person would be subject to a suitability review of their qualifications prior to BCTS retaining the individual for CHR evaluations on a particular site.

#### Result or Strategy

With the exception of the area covered by the FRPA, Section 196 (1) cutblocks and roads identified in Section 4.3 for which only subsection (7) applies, the following results or strategies apply to the holder of this FSP:

1. Prior to any operational harvest development governed by this FSP, the Timber Sales Manager (TSM) will refer to affected First Nations any areas of site specific proposed timber harvesting and road construction and formally request information respecting the presence of known or suspected cultural heritage resources within these proposed areas.
2. Reasonable efforts will be made by the TSM to facilitate information exchange with the affected First Nation for the purpose of
  - (a) identifying cultural heritage resources potentially affected by proposed harvest development including locations if known, and

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- (b) reaching mutual agreement with the affected First Nation regarding decisions for managing the cultural heritage resources.
3. where relevant site specific information regarding cultural heritage resources has been provided or made available to the TSM by the affected First Nation, government agency or from other sources (e.g. field reconnaissance of the proposed development area), the TSM will consider the nature and extent of a site-specific cultural heritage resource existing or potentially existing within areas of proposed harvest development (i.e. harvest unit, cutblock or access road) and either:
- (a) implement no actions to protect or conserve the cultural heritage resource if it is considered of low importance to the affected First Nation under subsection 2 (b), or
  - (b) conduct a cultural heritage resource evaluation, or
  - (c) protect the site by inclusion within a retention area or by excluding the site from harvest development through cutblock boundary or road realignment.
4. The TSM, when considering for implementation any management recommendations of a cultural heritage resource evaluation into the design of a harvest unit, cutblock or road, will identify
- (a) the portion of the area occupied by a cultural heritage resource,
  - (b) the nature of the cultural heritage resource,
  - (c) whether the cultural heritage resource is to be protected or conserved, and
  - (d) if the cultural heritage resource is to be conserved, what constraints, if any, are to apply to the primary forest activity carried out on the area.
5. For each cultural heritage resource that has been identified under subsection (4) for protection, the TSM will design and implement measures that ensure that carrying out a primary forest activity on the area does not damage or render ineffective the relevant cultural heritage resource.
6. For each cultural heritage resource that has been identified under subsection (4) for conservation, the TSM will design and implement measures that ensure that carrying out a primary forest activity on the area is consistent with the constraints, if any, specified in the design for the harvest unit, cutblock or road for conserving the cultural heritage resource.
- (7) If a previously unidentified cultural heritage resource is found or made known during the course of carrying out a primary forest activity on an area, the timber sales manager will
- (a) require operations in the immediate vicinity of the cultural heritage resource to cease or be modified to the extent necessary to refrain from threatening cultural heritage resource, and
  - (b) determine
    - (i) the nature and extent of the cultural heritage resource, and
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- (ii) follow the procedures under subsection (2) and implement no actions to protect or conserve the cultural heritage resource if it is considered of low importance to the affected First Nation under subsection (2)(b), or
  - (iii) conduct a cultural heritage resource evaluation and implement management recommendations having regard to subsections (4), (5) and (6), or
  - (iv) protect the site by inclusion within a retention area or by excluding the site from harvest development through cutblock boundary or road realignment.
- (c) authorize operations to resume within the cutblock or road to the extent that the operations are consistent with the modified design.

Scale of Measurement: harvest unit, cutblock or road

Map Reference: N/A

### ***5.8 Objectives Set by Government for Fish Habitat in Fisheries Sensitive Watersheds***

Legal Reference: FPPR, Section 8.1

No known fisheries sensitive watersheds are established within any of the FDUs covered by this FSP.

### ***5.9 Objectives Set by Government for Water in Community Watersheds***

Legal Reference: FPPR Section, 8.2

No known community watersheds are established within any of the FDUs covered by this FSP.

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## 6.0 Measures

Measures apply to all FDU's covered by this FSP

### 6.1 Measures for Preventing the Introduction or Spread of Invasive Plants

Legal Reference: FPPR, Section 17

The following measures will be taken by the holder of this FSP to prevent the introduction or spread of invasive plants species when carrying out a primary forest activity authorized by the Timber Sales Manager:

1. Areas within the FDU containing known sites of invasive plants and/or sites considered having moderate to high risk to invasive plant establishment as a result of forest practices will be identified using information gathered from forest district range staff, regional experts, or other agencies.
2. Within sites in subparagraph (1), contiguous areas of exposed mineral soil greater than 0.1 ha disturbed through harvesting or road construction activity and are not to be reforested, will be seeded - excluding the running surface of roads- within one year of completion of the harvest or road construction activity.
3. Sites referred to in subparagraph (2) will be subjectively monitored following seeding to ensure success of treatment. Sites considered not re-vegetated will be re-seeded and monitoring of the site continued.
4. Where a primary forest activity authorized by the Timber Sales Manager introduces invasive plant species, measures will be carried out, to the extent practicable, to eradicate the invasive species.
5. For the purposes of subparagraph (2), only a seed mix will be used for re-vegetation that is certified to be free of those species listed in the *Invasive Plants Regulation* as invasive plants within the Fort Nelson TSA.

Scale of Measurement: Known locations of invasive plants, moderate to high risk sites

Map Reference: N/A.

### 6.2 Measures for Mitigating Impacts to Natural Range Barriers

Legal Reference: FPPR, Section 18

The following measures will be taken by the holder of this FSP to mitigate the effect of removing or rendering ineffective a natural range barrier that results from a primary forest activity authorized by the Timber Sales Manager:

1. Prior to any operational harvest development, the Timber Sales Manager (TSM) will provide formal written notification to affected range tenure holders describing the location of site specific proposed timber harvesting and road construction within and adjacent to their range tenure area and request information respecting the presence of known range barriers within these proposed development areas.

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2. Reasonable efforts will be made by the TSM to facilitate information exchange with the affected range tenure holder for the purpose of
    - (a) identifying natural range barriers potentially affected by proposed harvest development including locations if known, and
    - (b) reaching mutual agreement with the affected range tenure holder regarding decisions for mitigating impacts to the natural range barrier.
  3. Where the range tenure holder indicates that the proposed harvest and road construction will remove or render ineffective a natural range barrier, the holder of this FSP will carry out one or more of the following:
    - (a) construct a fence, gate, cattleguard or similar structure that mitigates the impact on the natural range barrier;
    - (b) retain a timbered buffer of adequate size that maintains the functionality of the natural range barrier;
    - (c) carry out other suitable means of restoring the effectiveness of the natural range barrier that is mutually agreeable to both parties;
    - (d) redirect harvest or road construction activity.

Scale of Measurement: Harvest unit, cutblock or access road.

Map Reference: Authorized range tenure areas as shown on the FSP content maps.

## ***7.0 Other Established Objectives***

Legal Reference: FRPA, Sections 180 and 181.

In the Fort Nelson Forest District, other than the known scenic areas and their established or recommended objectives addressed under the FSP section 5.6, there are no known established objectives that exist as identified under FRPA, Section 180 and grandparented under Section 181.

## ***8.0 Stocking Standards***

Legal Reference: FPPR, Sections 16 and 44 (1); FRPA, Section 29 (2)

Scale of Measurement: Cutblock

Map Reference: N/A

### **8.1 General Standards**

Where the TSM is required under FRPA to establish a free growing stand with respect to timber harvesting governed by this FSP, the TSM will, subject to Section 8.2, do so in accordance with the coniferous and deciduous stocking standards in ***Appendix 1***.

Section 44(1) of the FPPR (free growing stands generally) applies to all FDU's in this FSP.

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### 8.1.1 Even aged Stocking Standards for Conifer and Deciduous Management Regimes

The coniferous or deciduous stocking standards in **Table 1 of Appendix 1** apply to all blocks being managed primarily as single layer, even aged coniferous leading or deciduous leading stands (i.e. aspen (AT) and cottonwood (AC) species). The stocking standards found in **Table 1** are inclusive the following requirements:

- (1) where described in Table 1, maximum regeneration delay for conifer and deciduous stocking standards is set at 5 years to permit the deciduous component of the stand, if any, to be assessed and management regime changes to be made prior to the expiry of the regeneration delay period. This will allow for species ecological suitability to be expressed on site for conifer and deciduous species. This will also allow for area equalizations to occur based on the requirements of the conifer/deciduous tracking ledger.
- (2) Conifer stocking standards:
  - (a) where described in Table 1, maximum inter-tree distance (MITD) is reduced to 1.6 metres on wetter site series (i.e. 06 and 07) to permit use of natural raised microsites that are less than standard 2.0 meter MITD spacing. Reforestation strategies for these sites include initial planting at densities up to or excess of 1600 stems per hectare (sph), targeting natural raised microsites and/or cluster planting these sites where appropriate (e.g. 2 plus trees per microsite).
  - (b) where described in Table 1, maximum regeneration delay period is set at 7 years for wetter site series (i.e. BWBS mw2, site series 06 and 07) due to an anticipated high water table and potential for slow initial establishment post harvest. Harvest development under this FSP will not specifically target these 06 and 07 site series with any harvest within the latter considered incidental.
- (3) Deciduous stocking standards:
  - (a) cottonwood (AC) trees that originate directly from a cut stump (i.e. stump suckering) are not acceptable crop trees in a free growing tally.

### 8.1.2 Free growing Assessments

For the purposes of the conifer stocking standards, free growing assessments (i.e. silviculture surveys) of the preferred and acceptable crop tree species for a cutblock will use the acceptability criteria and assessment procedures found in **Appendix 1** excerpted from the Establishment to Free Growing Guidebook: Prince George Forest Region - May 2000 version for assessing crop tree acceptability for planted stock, natural and advanced regeneration and appearing as:

- (i) Appendix 5 - Free growing damage criteria
- (ii) Appendix 9 - Free from brush
- (iii) Appendix 10 – Advanced regeneration

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## 8.2 Reforestation Management

For the purposes of this section, the following definitions apply:

**“pre-harvest species type composition”** means the relative proportional distribution of coniferous and deciduous species types existing prior to harvest on the net area to reforest (NAR) of an opening and based on the average net merchantable volume estimate for each species type (i.e. conifer and deciduous) as derived from the official timber cruise compilation used for appraisal purposes. The average volume estimate for each species type will be converted to the relative percentage of the NAR represented by each species type within the opening.

**“reporting period #1”** means the period of five (5) years beginning at the Commencement Date to the expiry date of this current FSP.

**“reporting period #2”** means the period of five (5) years beginning at the Commencement Date to the expiry date of the next FSP (i.e. successor to the current FSP) or where the current FSP’s term is extended, beginning at the date of extension to the expiry of the FSP extension.

### Preamble

Structural characteristics and species composition of natural stands within the Fort Nelson TSA are very complex ranging from pure conifer or pure deciduous to intimate mixtures of conifer and deciduous species (i.e. mixedwood) defined as either conifer leading or deciduous leading mixedwood. The natural intimate mixture of conifer and deciduous existing pre-harvest for these stands is extremely difficult if not impossible to duplicate when managing reforestation of these stands post-harvest. Over the collective number of stands harvested under this FSP, the goal is to maintain post-harvest the relative distribution of conifer and deciduous types that existed pre-harvest. To achieve this, the reforestation strategy will “unmix the mix” and develop the post-harvest distribution of conifer and deciduous types within a harvested stand as discrete strata (i.e. standards unit) under either conifer or deciduous management and applying the appropriate conifer or deciduous stocking standards found in **Table 1 of Appendix 1**. No attempt will be made to manage an intimate mixture of both conifer and deciduous species as a standards unit. All conifer stocking standards will apply the criteria and procedures for free growing assessments found in Section 8.1.2.

### Result or Strategy

For all FDUs covered by this FSP, the holder of this FSP will:

1. subject to subsection 5, manage reforestation of all stands harvested under this FSP in such a manner that maintains the relative proportional distribution of conifer and deciduous types that existed within these stands prior to harvest.
2. in a format acceptable to the District Manager, Fort Nelson Forest District, prepare and maintain a ledger tracking system for stands (i.e. openings) harvested and reforested over the term of the reporting period #1 that documents harvest particulars on each opening including but not limited to
  - (a) the pre-harvest species type composition for each opening described in terms of relative percentage and area equivalent (hectares) of the NAR represented by each species type (i.e. conifer and deciduous),

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- (b) the post-harvest management regime (conifer or deciduous) by individual standards unit for each opening,
  - (c) the post-harvest area in hectares (ha) of the net area to reforest by opening and individual standards unit,
  - (d) the regeneration delay milestone status by opening and individual standards unit.
3. in accordance with subsection 2, document relevant pre-harvest and post-harvest information on those harvested openings under BCTS management only. The ledger system will not describe or include any disturbance associated with other forest licensee operations, oil/gas operations, natural disturbance from wildfire, etc.
  4. within the broader population of openings harvested over the term of this FSP, only those openings that have the regeneration delay milestone declared will contribute to the population of reportable openings used for measuring success of the strategy at the end of the reporting period #1.
  5. measured over the collective number of openings reportable over the term of the reporting period #1 as described in subsection 4, ensure that the post-harvest proportional distribution of conifer and deciduous types for these openings represents, within a target range of +/- 10%, the proportional distribution of conifer and deciduous types that existed pre-harvest.
  6. by the end of the reporting period #1, prepare a report to the District Manager that
    - (a) describes the results of 2, 4 and 5 and
    - (b) lists the openings not reportable (i.e. not declared regeneration delay met) over the term of this FSP but contribute to reporting period #2.

### **8.3 Regeneration Date and Free Growing Date for Even-aged, Single Layer Coniferous Stocking Standards**

Minimum timeframes for assessing for free growing status a stand or standards unit managed under a conifer regime in a site plan will be the declared (i.e. actual) regeneration date plus five years for the BWBS biogeoclimatic zone.

### **8.4 Regeneration Date and Free Growing Date for Even-aged, Single Layer Deciduous Stocking Standards**

Minimum timeframes for assessing for free growing status a stand or standards unit managed under a deciduous regime in a site plan will be the declared (i.e. actual) regeneration date plus five years for the BWBS biogeoclimatic zone.

### **8.5 Riparian Management Considerations**

Aspen, cottonwood, and birch as well as willow and alder within five (5) metres of a designated temperature sensitive stream, or a fish bearing stream, will not be considered brush competition when conducting a free growing survey.

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## 9.0 Signatures to Plan

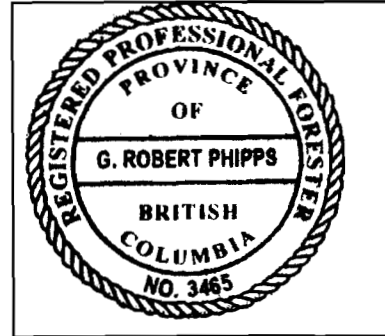
### Plan Preparation

Signature: \_\_\_\_\_



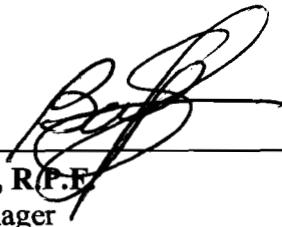
**Bob Phipps, R.P.F.**  
BCTS Planning Forester  
Peace-Liard Business Area

Date: MARCH 27, 2008



### Plan Holder

Signature: \_\_\_\_\_



**Brian Wesleyson, R.P.F.**  
Timber Sales Manager  
Peace-Liard Business Area

Date: March 27, 2008



## Knowledge Gap Matrix

Criteria	Element	Indicator	Target	Knowledge Gap	Strategy to Address	Timing	Priority
1.0 Biological Diversity	1.1 Ecosystem Diversity	1.1.1 Ecosystem area by type	A) 100 percent of rare and uncommon ecosystems will have special management strategies associated with them (variance of 0 percent)	1) Addressed as new rare and uncommon sites are confirmed 2) Rerun analysis in conjunction with TSR review	1) Addressed as new rare and uncommon sites are confirmed 2) Rerun analysis in conjunction with TSR review	1) As Necessary 2) 2016	High
			B) 100 percent of the strategies for rare and uncommon ecosystems will be followed (variance of 5 percent)	None			
		1.1.2 Forest area by type or species composition	Maintain percent distribution of forest type >20 years old across the DFA (variance of 5 percent)	Data will only be run periodically	Rerun analysis every 5 years	2016	Low
		1.1.3 Forest area by seral stage or age class	Percent of late seral stage forest distribution by NDU is maintained at the legal target for old growth as set out by NSOGO or established OGMA's <u>or</u> trend positive towards meeting target (variance of 0 or show positive trend)	Data will only be run periodically	Rerun analysis every 5 years	2016	Low
		1.1.4.1 Degree of within stand structural retention – WTP percentage	100 percent conformance with 7 percent minimum WTP by landscape unit and by block. Where LU's start out below the 7 percent, show positive trend (variance of 0)	Data will only be run periodically	Rerun analysis every 5 years	2016	Low
		1.1.4.2 Degree of Within stand structural retention – Dispersed retention	100 percent of blocks will meet the minimum of 7 or more combined mature trees/stubs per hectare of all harvested blocks in the reporting year (variance of 0)	None			
		1.1.4.3 Degree of within stand structural retention – Riparian management	0 Non-conformances where forest operations are not consistent with riparian management strategies (variance of 0)	None			
		1.1.5 Shrub Habitat across the DFA	A) Sustain current baseline of shrub habitat percentage in the THLB (variance of 0.5 percent)	Data will only be run periodically	Rerun analysis every 5 years	2016	Low
			b) Monitor shrub habitat in the NHLB	Data will only be run periodically	Rerun analysis every 5 years	2016	Low

## Knowledge Gap Matrix

Criteria	Element	Indicator	Target	Knowledge Gap	Strategy to Address	Timing	Priority
	1.2 Species Diversity	1.2.1 Degree of habitat protection for selected focal species including species at risk	100 percent conformance with management strategies for species of management concern (variance of 0 percent)	None			
		1.2.2 Degree of suitable habitat in the long term for selected focal species including species at risk	As previous indicator	None			
		1.2.3 Proportion of regeneration comprised of native species	100 percent conformance with the chief forester's standards for seed use (variance of 0 percent)	None			
	1.3 Genetic Diversity	1.3.1 Percentage of stands reforestation programs free of genetically modified organisms	100 percent of stands free of GMO's	None			
	1.4 Protected Areas and sites of special biological and cultural significance	1.4.1 Proportion of identified sites with implemented management strategies	100 percent of forest management activities in conformance with management strategies for protected areas and site of biological significance	None			
		1.4.2 Protection of identified sacred and culturally important sites	100 percent of identified aboriginal forest values, knowledge and uses considered in forestry planning processes (variance of 0 percent)	None			
2.0 Ecosystem condition and resilience	2.1 Forest ecosystem resilience	2.1.1.1 Reforestation success – Regen delay	100 percent of stands will meet a regen delay of 3 years or less (variance site plan specific)	None			
		2.1.1.2 Reforestation success – Free Growing	100 percent compliance with free growing time frames prescribed in the site plans.	None			
		2.1.1.3 Percentage of silviculture obligation areas with significant detected forest health damaging agents which have treatment plans	100 percent of sites with significant forest health damaging issues will have a treatment plan developed and implemented within one year	None			

## Knowledge Gap Matrix

Criteria	Element	Indicator	Target	Knowledge Gap	Strategy to Address	Timing	Priority
		2.1.1.4 Evidence of efforts being made to manage known significant forest health damaging agents	A) Report out on percentage of harvest activity that is focussed on treatment of stands damaged by or susceptible to damage by natural events or damaging agents	None			
			B) Report out on participation in management efforts within the DFA for significant forest health damaging issues	None			
	2.2 Forest ecosystem productivity	2.2.1 Additions or deletions to the forest area	Less than 3 percent of the CFLB converted to non-forest land use through forest management activities (variance of 0 percent)	Data will only be run periodically	Rerun analysis every 5 years	2016	Low
		2.2.2 Proportion of the calculated long term sustainable harvest level that is actually harvested	100 percent of AAC harvested over a 5 year period (variance of 10 percent)	None			
3.0 Soil and Water	3.1 Soil quality and quantity	3.1.1 Level of soil disturbance	100 percent of harvested blocks meet soil disturbance objective identified in the site plan	None			
		3.1.2 Level of downed woody debris	100 percent of harvest blocks will meet prescribed coarse woody debris targets (variance of 10 percent)	None			
	3.2 Water quality and quantity	3.2.1.1 Proportion of watershed or water management areas with recent stand replacing events - Watersheds	100 percent of sensitive water sheds found to be above peak flow will have further assessment done and strategies created for water management	No peak flow information is known for Ft Nelson DFA. No watersheds designated as sensitive	Complete peak flow analysis on all major watersheds in DFA where operations are planned to be active	15-Dec-13	High
		3.2.1.2 Proportion of watershed or water management areas with recent stand replacing events - Roads	100 percent of high hazard drainage structures within sensitive watersheds will have mitigative strategies implemented	No peak flow information is known for Ft Nelson DFA. No watersheds designated as sensitive	Complete peak flow analysis on all major watersheds in DFA where operations are planned to be active	15-Dec-13	High

## Knowledge Gap Matrix

Criteria	Element	Indicator	Target	Knowledge Gap	Strategy to Address	Timing	Priority
4.0 Role in global ecological cycles	4.1 Carbon uptake and storage	4.1.1.1 Net Carbon Uptake – Total carbon storage	Maintain or increase baseline 1.75 mega tonnes of total ecosystem carbon in the productive CFLB (variance of -10 percent)	Data package is from 2004 SFMP	Data to be rerun in conjunction with TRS review	2016	Low
		4.1.1.2 Net Carbon Uptake – Carbon sequestration rate	Maintain or increase baseline 0.93 mega tonnes of carbon per year sequestration rate in the THLB and 0.55 mega tonnes carbon sequestration rate in the NHLB (variance of -10 percent)	Data package is from 2004 SFMP	Data to be rerun in conjunction with TRS review	2016	Low
		4.1.2 Reforestation Success (covered by 2.1.1)	As per 2.1.1	As per 2.1.1	As per 2.1.1	As per 2.1.1	
	4.2 Forest land conversions	4.2.1.1 Additions and deletions to the forest area (covered by 2.2.1)	As per 2.2.1	as per 2.2.1	as per 2.2.1	as per 2.2.1	
		4.2.1.2 Evidence of best efforts to coordinate forest management activities with the oil and gas industry	100 percent of annual planned block and road activities submitted to the oil and gas commission	None			
5.0 Economic and social benefits	5.1 Timber and non timber benefits	5.1.1.1 Quantity and quality of timber and non-timber benefits, products and services produced in the DFA - Timber	As per 2.2.2	as per 2.2.2	as per 2.2.2	as per 2.2.2	
		5.1.1.2 Quantity and quality of timber and non-timber benefits, products and services produced in the DFA – Non-Timber	100 percent conformance with strategies for non-timber forest products (variance of 0 percent)	No real data exists for non-timber forest products in the Ft Nelson DFA	Deal with measure as data is made available to Participants	Ongoing	Low
		5.1.1.3 Participants forest management activities will not negatively impact established recreational sites and trails	100 Percent of activities will take place outside of established recreation sites and trails (variance allowed for forest health or safety reasons)	None			

## Knowledge Gap Matrix

Criteria	Element	Indicator	Target	Knowledge Gap	Strategy to Address	Timing	Priority
		5.1.1.4 Forest Management Activities will be consistent with Visual Quality Objectives (VQO's)	100 percent of forest operations will be consistent with established VQO's (variance allowed for forest health or safety reasons)	None			
	5.2 Communities and sustainability	5.2.1.1 Level of investment in initiatives that contribute to community sustainability	A) Report out percentage of annual budget spent locally on a 5 year rolling average	None			
			B) Report out total budget spent locally	None			
		5.2.1.2 Amount of Stumpage paid in the Fort Nelson DFA	Report out all stumpage collected in the Fort Nelson DFA	None			
		5.2.2 Level of investment in training and skill development	100 percent of forestry employees and contractors will have EMS/FMS training and Safety Training (variance of 10 percent)	None			
		5.2.3 Level of direct and indirect employment	Maintain the level (baseline 2011) level of direct and indirect employment in the Ft Nelson DFA	Currently reporting using 2004 TRS multipliers for employment	Indicator will be re-assessed with new data package released in conjunction with next TSR Review to possibly switch to reporting out on a "job per 1000 m3" basis	2016	Low
		5.2.4 Level of Aboriginal participation in the forest economy	Report out number of opportunities for First Nations to participate in the forest economy	None			
6.0 Society's responsibility	6.1 Aboriginal and treaty rights	6.1.1 Evidence of a good understanding of the nature of Aboriginal title and rights	100 percent of Canfor Forest Management Group employees and BCTS Fort Nelson Field team staff will receive First Nations awareness training. (variance of 0 percent)	None			
		6.1.2 Evidence of best efforts to obtain acceptance of management plans based on Aboriginal communities having a clear understanding of the plans	100 percent of participants management plans exhibit evidence of best efforts to obtain acceptance aboriginal communities (variance of 0 percent)	None			

## Knowledge Gap Matrix

Criteria	Element	Indicator	Target	Knowledge Gap	Strategy to Address	Timing	Priority
		6.1.3 Level of management and/or protection of areas where culturally important practices and activities (hunting fishing, gathering, trapping) occur	100 percent of forest operations in conformance with operational/site plans developed to address aboriginal forest values, knowledge and uses (variance of 0 percent)	None			
	6.2 Respect for aboriginal forest values, knowledge and uses	6.2.1 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	100 percent of identified aboriginal forest values, knowledge and uses considered in the forestry planning process (variance of 0 percent)	None			
	6.3 Forest community well being and resilience	6.3.1 Evidence that the organization has cooperated with other forest-dependant businesses, forest users and local community to strengthen and diversify the local economy	Report out the number of purchase/sale/trade relationships with local forest dependant businesses where primary forest products and by products are involved (no variance)	None			
		6.3.2 Evidence of cooperation with DFA-Related workers to improve and enhance safety standards, procedures and outcomes in all DFA-related workplaces and affected communities	100 percent of Participants and their contractors and licensees will implement and maintain a certified safety program (variance of 10 percent)	None			

## Knowledge Gap Matrix

Criteria	Element	Indicator	Target	Knowledge Gap	Strategy to Address	Timing	Priority
		6.3.3 Evidence that a worker safety program has been implemented and is periodically reviewed and improved	A) 100 percent of non-conformities identified by external audits will have an action plan developed and implemented in a manner and timeframe acceptable to the auditor (variance of 0 percent)	None			
			B) Annual management review of the safety program will be completed (variance of 0)	None			
	6.4 Fair and effective decision making	6.4.1 Level of Participant satisfaction with the public participation process	80% or greater level of satisfaction indicated by PRISM established and maintained satisfaction surveys (10 percent variance)	None			
		6.4.2 Evidence of efforts to promote capacity development and meaningful participation in general	1 or more educational opportunities for information/training delivered to the PAG	None			
		6.4.3 Evidence of efforts to promote capacity development and meaningful participation in Aboriginal communities	See indicator 6.1.2	As per 6.1.2	As per 6.1.2	As per 6.1.2	
	6.5 Information for decision making	6.5.1 Number of people reached through educational outreach	50 or greater people to whom educational opportunities have been provided by the participants or their representatives	None			
		6.5.2 Availability of summary information on issues of concern to the public	Previous years annual report must be made available to the public via the web prior to March 31st of the current reporting year (variance of 0)	none			

Criteria	Element	Indicator Type	Indicator	Target
1.0 Biological Diversity	1.1 Ecosystem Diversity	Core	1.1.1 Ecosystem area by type	A) 100 percent of rare and uncommon ecosystems will have special management strategies associated with them (variance of 0 percent)
				B) 100 percent of the strategies for rare and uncommon ecosystems will be followed (variance of 5 percent)
		Core	1.1.2 Forest area by type or species composition	Maintain percent distribution of forest type >20 years old across the DFA (variance of 5 percent)
		Core	1.1.3 Forest area by seral stage or age class	Percent of late seral stage forest distribution by NDU is maintained at the legal target for old growth as set out by NSOGO or established OGMA's <u>or</u> trend positive towards meeting target (variance of 0 or show positive trend)
		Core	1.1.4.1 Degree of within stand structural retention – WTP percentage	100 percent conformance with 7 percent minimum WTP by landscape unit and by block. Where LU's start out below the 7 percent, show positive trend (variance of 0)



Criteria	Element	Indicator Type	Indicator	Target
		Local	1.1.4.2 Degree of Within stand structural retention – Dispersed retention	100 percent of blocks will meet the minimum of 7 or more combined mature trees/stubs per hectare of all harvested blocks in the reporting year (variance of 0)
		Local	1.1.4.3 Degree of within stand structural retention – Riparian management	0 Non-conformances where forest operations are not consistent with riparian management strategies (variance of 0)
		Local	1.1.5 Shrub Habitat across the DFA	A) Sustain current baseline of shrub habitat percentage in the THLB (variance of 0.5 percent)
				b) Monitor shrub habitat in the NHLB
	1.2 Species Diversity	Core	1.2.1 Degree of habitat protection for selected focal species including species at risk	100 percent conformance with management strategies for species of management concern (variance of 0 percent)
		Core	1.2.2 Degree of suitable habitat in the long term for selected focal species including species at risk	As previous indicator
		Core	1.2.3 Proportion of regeneration comprised of native species	100 percent conformance with the chief forester's standards for seed use (variance of 0 percent)

Criteria	Element	Indicator Type	Indicator	Target
	1.3 Genetic Diversity	Local	1.3.1 Percentage of stands reforestation programs free of genetically modified organisms	100 percent of stands free of GMO's
	1.4 Protected Areas and sites of special biological and cultural significance	Core	1.4.1 Proportion of identified sites with implemented management strategies	100 percent of forest management activities in conformance with management strategies fro protected areas and site of biological significance
		Core	1.4.2 Protection of identified sacred and culturally important sites	100 percent of identified aboriginal forest values, knowledge and uses considered in forestry planning processes (variance of 0 percent)
2.0 Ecosystem condition and resilience	2.1 Forest ecosystem resilience	Core	2.1.1.1 Reforestation success – Regen delay	100 percent of stands will meet a regen delay of 3 years or less (variance site plan specific)
		Local	2.1.1.2 Reforestation success – Free Growing	100 percent compliance with free growing time frames prescribed in the site plans.
		Local	2.1.1.3 Percentage of silviculture obligation areas with significant detected forest health damaging agents which have treatment plans	100 percent of sites with significant forest health damaging issues will have a treatment plan developed and implemented within one year

Criteria	Element	Indicator Type	Indicator	Target
		Local	2.1.1.4 Evidence of efforts being made to manage known significant forest health damaging agents	A) Report out on percentage of harvest activity that is focussed on treatment of stands damaged by or susceptible to damage by natural events or damaging agents
				B) Report out on participation in management efforts within the DFA for significant forest health damaging issues
	2.2 Forest ecosystem productivity	Core	2.2.1 Additions or deletions to the forest area	Less than 3 percent of the CFLB converted to non-forest land use through forest management activities (variance of 0 percent)
		Core	2.2.2 Proportion of the calculated long term sustainable harvest level that is actually harvested	100 percent of AAC harvested over a 5 year period (variance of 10 percent)
3.0 Soil and Water	3.1 Soil quality and quantity	Core	3.1.1 Level of soil disturbance	100 percent of harvested blocks meet soil disturbance objective identified in the site plan
		Core	3.1.2 Level of downed woody debris	100 percent of harvest blocks will meet prescribed coarse woody debris targets (variance of 10 percent)

Criteria	Element	Indicator Type	Indicator	Target
	3.2 Water quality and quantity	Core	3.2.1.1 Proportion of watershed or water management areas with recent stand replacing events - Watersheds	100 percent of sensitive water sheds found to be above peak flow will have further assessment done and strategies created for water management
		Core	3.2.1.2 Proportion of watershed or water management areas with recent stand replacing events - Roads	100 percent of high hazard drainage structures within sensitive watersheds will have mitigative strategies implemented
4.0 Role in global ecological cycles	4.1 Carbon uptake and storage	Core	4.1.1.1 Net Carbon Uptake – Total carbon storage	Maintain or increase baseline 1.75 mega tonnes of total ecosystem carbon in the productive CFLB (variance of -10 percent)
		Core	4.1.1.2 Net Carbon Uptake – Carbon sequestration rate	Maintain or increase baseline 0.93 mega tonnes of carbon per year sequestration rate in the THLB and 0.55 mega tonnes carbon sequestration rate in the NHLB (variance of -10 percent)
		Core	4.1.2 Reforestation Success (covered by 2.1.1)	As per 2.1.1
	4.2 Forest land conversions	Core	4.2.1.1 Additions and deletions to the forest area (covered by 2.2.1)	As per 2.2.1
		Local	4.2.1.2 Evidence of best efforts to coordinate forest management activities with the oil and gas industry	100 percent of annual planned block and road activities submitted to the oil and gas commission

Criteria	Element	Indicator Type	Indicator	Target
5.0 Economic and social benefits	5.1 Timber and non timber benefits	Core	5.1.1.1 Quantity and quality of timber and non-timber benefits, products and services produced in the DFA - Timber	As per 2.2.2
		Core	5.1.1.2 Quantity and quality of timber and non-timber benefits, products and services produced in the DFA – Non-Timber	100 percent conformance with strategies for non-timber forest products (variance of 0 percent)
		Local	5.1.1.3 Participants forest management activities will not negatively impact established recreational sites and trails	100 Percent of activities will take place outside of established recreation sites and trails (variance allowed for forest health or safety reasons)
		Local	5.1.1.4 Forest Management Activities will be consistent with Visual Quality Objectives (VQO's)	100 percent of forest operations will be consistent with established VQO's (variance allowed for forest health or safety reasons)
	5.2 Communities and sustainability	Core	5.2.1.1 Level of investment in initiatives that contribute to community sustainability	A) Report out percentage of annual budget spent locally on a 5 year rolling average
				B) Report out total budget spent locally
		Local	5.2.1.2 Amount of Stumpage paid in the Fort Nelson DFA	Report out all stumpage collected in the Fort Nelson DFA

Criteria	Element	Indicator Type	Indicator	Target
		Core	5.2.2 Level of investment in training and skill development	100 percent of forestry employees and contractors will have EMS/FMS training and Safety Training (variance of 10 percent)
		Core	5.2.3 Level of direct and indirect employment	Maintain the level (baseline 2011) level of direct and indirect employment in the Ft Nelson DFA
		Core	5.2.4 Level of Aboriginal participation in the forest economy	Report out number of opportunities for First Nations to participate in the forest economy
6.0 Society's responsibility	6.1 Aboriginal and treaty rights	Core	6.1.1 Evidence of a good understanding of the nature of Aboriginal title and rights	100 percent of Canfor Forest Management Group employees and BCTS Fort Nelson Field team staff will receive First Nations awareness training. (variance of 0 percent)
		Core	6.1.2 Evidence of best efforts to obtain acceptance of management plans based on Aboriginal communities having a clear understanding of the plans	100 percent of participants management plans exhibit evidence of best efforts to obtain acceptance aboriginal communities (variance of 0 percent)

Criteria	Element	Indicator Type	Indicator	Target
		Core	6.1.3 Level of management and/or protection of areas where culturally important practices and activities (hunting fishing, gathering, trapping) occur	100 percent of forest operations in conformance with operational/site plans developed to address aboriginal forest values, knowledge and uses (variance of 0 percent)
	6.2 Respect for aboriginal forest values, knowledge and uses	Core	6.2.1 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	100 percent of identified aboriginal forest values, knowledge and uses considered in the forestry planning process (variance of 0 percent)
	6.3 Forest community well being and resilience	Core	6.3.1 Evidence that the organization has cooperated with other forest-dependant businesses, forest users and local community to strengthen and diversify the local economy	Report out the number of purchase/sale/trade relationships with local forest dependant businesses where primary forest products and by products are involved (no variance)
		Core	6.3.2 Evidence of cooperation with DFA-Related workers to improve and enhance safety standards, procedures and outcomes in all DFA-related workplaces and affected communities	100 percent of Participants and their contractors and licensees will implement and maintain a certified safety program (variance of 10 percent)

Criteria	Element	Indicator Type	Indicator	Target
		Core	6.3.3 Evidence that a worker safety program has been implemented and is periodically reviewed and improved	A) 100 percent of non-conformities identified by external audits will have an action plan developed and implemented in a manner and timeframe acceptable to the auditor (variance of 0 percent)
				B) Annual management review of the safety program will be completed (variance of 0)
	6.4 Fair and effective decision making	Core	6.4.1 Level of Participant satisfaction with the public participation process	80% or greater level of satisfaction indicated by PRISM established and maintained satisfaction surveys (10 percent variance)
		Core	6.4.2 Evidence of efforts to promote capacity development and meaningful participation in general	1 or more educational opportunities for information/training delivered to the PAG
		Core	6.4.3 Evidence of efforts to promote capacity development and meaningful participation in Aboriginal communities	See indicator 6.1.2
	6.5 Information for decision making	Core	6.5.1 Number of people reached through educational outreach	50 or greater people to whom educational opportunities have been provided by the participants or their representatives



Criteria	Element	Indicator Type	Indicator	Target
		Core	6.5.2 Availability of summary information on issues of concern to the public	Previous years annual report must be made available to the public via the web prior to March 31st of the current reporting year (variance of 0)

Criteria	Element	Indicator Type	Indicator	Target	Reporting and Monitoring Protocol Reporting Period: April 1 to March 31	Responsibility BCTS	Responsibility Canfor	Participant providing data
1.0 Biological Diversity	1.1 Ecosystem Diversity	Core	1.1.1 Ecosystem area by type	A) 100 percent of rare and uncommon ecosystems will have special management strategies associated with them (variance of 0 percent)	A) Report out all identified and <i>newly identified</i> uncommon ecosystems based on NHLB.. GIS exercise to identify rare and uncommon ecosystems and then create a strategy where they occur within roads and cutblocks in reporting years operations plan.	Planning Forester	Planning Supervisor	Canfor
				B) 100 percent of the strategies for rare and uncommon ecosystems will be followed (variance of 5 percent)	Identify roads and cutblocks built within rare and uncommon ecosystems and check site plan to ensure strategy to deal with the ecosystem was followed	Area Forester	Planning Supervisor	Individual
		Core	1.1.2 Forest area by type or species composition	Maintain percent distribution of forest type >20 years old across the DFA (variance of 5 percent)	Run baseline data in 2011 (see table 16). Re-run data using GIS analysis every 5 years to compare to 2011 baseline. If outside the baseline, a strategy must be developed to return to acceptable variance.	Planning Forester/GIS analyst	Planning Supervisor	Canfor
				Percent of late seral stage forest distribution by NDU is maintained at the legal target for old growth as set out by Non-spatial Landscape Biodiversity Objectives Order (NLBOO) or established OGMA's or trend positive towards meeting target (variance of 0 or show positive trend)	Run baseline data for each NDU in 2011 to assess where deficiencies lie. For NDU's where harvesting has taken place in the reporting year, run analysis to ensure we are still within legal target or trending towards target. Where we are below target, identify stands that can be set aside as recruitment for future old growth. Re-run baseline every 5 years.	Planning Forester/GIS analyst	Planning Supervisor	Canfor
		Core	1.1.4.1 Degree of within stand structural retention – WTP percentage	100 percent conformance with 7 percent minimum WTP by landscape unit. Where LU's start out below the 7 percent, show positive trend (variance of 0)	Run Baseline data for LU's where harvesting has occurred. Sum the total area under plan for all blocks within the LU and then sum the WTP's. Report annually for all harvesting blocks added to an LU and report annually by block the WTP percentage.	Baseline - Planning forester/GIS analyst. Block by block report - Area Forester	Planning Supervisor	Individual
				100 percent of blocks prescribed for dispersed retention will meet the minimum of 7 or more combined mature trees/stubs per hectare in the reporting year (year of harvest completion) (variance of 0)	Check all SP's for blocks harvested in the reporting year for total number of retained trees/stubs per hectare. Report as a table on an annual basis	Area Forester	Planning Supervisor	Individual
		Local	1.1.4.2 Degree of Within stand structural retention – Dispersed retention	0 Non-conformances where forest operations are not consistent with riparian management strategies (variance of 0)	Check all SP's for the blocks harvested in the reporting year and review EMS ITS for non-conformities regarding riparian management. Report as a table on an annual basis	Area Forester	Planning Supervisor	Individual
Local	1.1.4.3 Degree of within stand structural retention – Riparian management			Area Forester	Planning Supervisor	Individual		

Criteria	Element	Indicator Type	Indicator	Target	Reporting and Monitoring Protocol Reporting Period: April 1 to March 31	Responsibility BCTS	Responsibility Canfor	Participant providing data
		Local	1.1.5 Shrub Habitat across the DFA	A) Sustain current baseline of shrub habitat percentage in the THLB (variance of 0.5 percent)	Add up all NAR harvested, for the reporting year and add to the NPBR and natural disturbance totals from the 2011 data run. Subtract any stands that have gone beyond 20 years of age. Calculate total shrub percentage and report annually. THE EXCEPTION IS WITH THE NPBR AND NATURAL DISTURBANCE AREAS, WHICH WILL BE RE-RUN EVERY 5 YEARS PAST 2011	area forester/GIS analyst	Planning Supervisor	Combined / Canfor
				b) Monitor shrub habitat in the NHLB	Using GIS analysis, add up all the natural disturbance under 20 years of age and NPBR area in the NHLB. Calculate total shrub percentage for the NHLB and report out every 5 years beyond the 2011 baseline run.	GIS analyst	Planning Supervisor	Canfor
	1.2 Species Diversity	Core	1.2.1 Degree of habitat protection for selected focal species including species at risk	100 percent conformance with management strategies for species of management concern (variance of 0 percent)	Review all SP's for blocks and roads harvested in the reporting year to determine if any strategies for species of concern were prescribed. Check EMS ITS for non-conformances/non-compliances regarding species at risk. Report out annually.	Area Forester	Planning Supervisor	Individual
		Core	1.2.2 Degree of suitable habitat in the long term for selected focal species including species at risk	As previous indicator	As previous indicator	As Previous indicator	Planning Supervisor	Individual
		Core	1.2.3 Proportion of regeneration comprised of native species	100 percent conformance with the chief forester's standards for seed use (variance of 0 percent)	Review all blocks planted in the reporting year to ensure the seedlot of the trees used matches the location. Report out annually	Practices Forester	Silviculture Supervisor	Individual
	1.3 Genetic Diversity	Local	1.3.1 Percentage of stands reforestation programs free of genetically modified organisms	100 percent of stands free of GMO's	Review all blocks planted in the reporting year to ensure no use of genetically modified stock. Report out annually	Practices Forester	Silviculture Supervisor	Individual
	1.4 Protected Areas and sites of special biological and cultural significance	Core	1.4.1 Proportion of identified sites with implemented management strategies	100 percent of forest management activities in conformance with management strategies fro protected areas and site of biological significance	Review all SP's for reporting years blocks and roads to determine if any strategies for protected areas or sites of biological significance were prescribed. Check EMS ITS for Non-conformances regarding protected areas and sites of biological significance. Report out on an annual basis	Area Forester	Planning Supervisor	Individual
		Core	1.4.2 Protection of identified sacred and culturally important sites	100 percent of identified aboriginal forest values, knowledge and uses considered in forestry planning processes (variance of 0 percent)	Review all SP's for blocks and roads in the reporting year to determine if any identified sites or uses had management strategies prescribed to them. Check the ITS for non-conformities associated with first nations strategies. Report out on an annual basis	Area Forester	Planning Supervisor	Individual

Criteria	Element	Indicator Type	Indicator	Target	Reporting and Monitoring Protocol Reporting Period: April 1 to March 31	Responsibility BCTS	Responsibility Canfor	Participant providing data
2.0 Ecosystem condition and resilience	2.1 Forest ecosystem resilience	Core	2.1.1.1 Reforestation success – Regen delay	100 percent of stands will meet a regen delay of 3 years or less (variance site plan specific)	Review all blocks reforested in the reporting year for harvest date and compare this to planting date to ensure blocks were planted within three years of harvesting. Review Genus database for regen delay dates to ensure no blocks have missed the 3 year target. Report out annually.	Practices Forester	Silviculture Supervisor	Individual
		Local	2.1.1.2 Reforestation success – Free Growing	100 percent compliance with free growing time frames prescribed in the site plans.	Review free growing dates coming due in Genus database. Assess list for missed free growing dates. Report out annually	Practices Forester	Silviculture Supervisor	Individual
		Local	2.1.1.3 Percentage of silviculture obligation areas with significant detected forest health damaging agents which have treatment plans	100 percent of sites with significant forest health damaging issues will have a treatment plan developed and implemented within one year	Review all survey results from the previous reporting year for evidence of significant forest health issues. Ascertain whether treatment plans had 1) been developed and 2) been implemented. Report out annually	Practices Forester	Silviculture Supervisor	Individual
		Local	2.1.1.4 Evidence of efforts being made to manage known significant forest health damaging agents	A) Report out on percentage of harvest activity that is focussed on treatment of stands damaged by or susceptible to damage by natural events or damaging agents	Review current reporting years harvest to ascertain whether any blocks were forest health related. Calculate the percentage of forest health related blocks and report out annually.	Area Forester	Planning Supervisor	Individual
					B) Report out on participation in management efforts within the DFA for significant forest health damaging issues	Review participation in local committees, task forces, etc. Where the company has been an active participant. Report out annually	Area Forester / Planning Forester	Planning Supervisor
	2.2 Forest ecosystem productivity	Core	2.2.1 Additions or deletions to the forest area	Less than 3 percent of the CFLB converted to non-forest land use through forest management activities (variance of 0 percent)	Use GIS analysis to create a 2011 baseline of what percentage of area has been removed from the CFLB. Report out in 2011 annual report. Re-run and report data every 5 years after baseline established	GIS Analyst	Planning Supervisor	Combined/Canfor
		Core	2.2.2 Proportion of the calculated long term sustainable harvest level that is actually harvested	100 percent of AAC harvested over a 5 year period (variance of 10 percent)	Indicator currently waived by PAG pending the resumption of harvesting in the Fort Nelson DFA. First report of this indicator will be the sum total of harvested timber over a 5 year period commencing with the resumption of industrial harvest. Report out every 5 years after this date.	Area Forester	Planning Supervisor	Individual
3.0 Soil and Water	3.1 Soil quality and quantity	Core	3.1.1 Level of soil disturbance	100 percent of harvested blocks meet soil disturbance objective identified in the site plan	Review all cut blocks in the reporting year for soil disturbance levels. Check the EMS/FMS ITS for incidences of non-conformance or non-compliance. Report out annually	Area Forester	Planning Supervisor	Individual
		Core	3.1.2 Level of downed woody debris	100 percent of harvest blocks will meet prescribed coarse woody debris targets (variance of 10 percent)	Review all cut blocks in the reporting year for prescribed coarse woody debris levels. Review EMS/FMS ITS for incidences of non-conformance or non compliance with CWD levels	Area Forester	Planning Supervisor	Individual

Criteria	Element	Indicator Type	Indicator	Target	Reporting and Monitoring Protocol Reporting Period: April 1 to March 31	Responsibility BCTS	Responsibility Canfor	Participant providing data
	3.2 Water quality and quantity	Core	3.2.1.1 Proportion of watershed or water management areas with recent stand replacing events - Watersheds	100 percent of sensitive water sheds found to be above peak flow will have further assessment done and strategies created for water management	Peak flow will be calculated annually for sensitive watersheds where harvesting occurs. Peak flow index will be calculated for the watershed and where targets are exceeded strategies will be developed and implemented. Sensitive watersheds with no harvesting will be reported annually as "no harvest occurred".	Planning Forester / GIS Analyst	Planning Supervisor	Combined/Canfor
		Core	3.2.1.2 Proportion of watershed or water management areas with recent stand replacing events - Roads	100 percent of high hazard drainage structures within sensitive watersheds will have mitigative strategies implemented	Stream quality crossing index will be calculated for each culvert or bridge installed on a classified stream in a sensitive watershed. Crossings found to have a high rating will be reviewed for mitigative action plans and implementation timelines. This will be reported annually.	Engineering specialist / Area Forester	Planning Supervisor	Individual
4.0 Role in global ecological cycles	4.1 Carbon uptake and storage	Core	4.1.1.1 Net Carbon Uptake – Total carbon storage	Maintain or increase baseline 1.75 mega tonnes of total ecosystem carbon in the productive CFLB (variance of -10 percent)	The baseline was derived by Forest Ecosystems Solutions (FESL) running a simulation based on all the data inputs from TSR 3. The data will not be re-simulated until the data package for TSR 4 is available as a simulation input. To be completed on a contract basis with costs shared by the participants	Contractor	Planning Supervisor	Combined/Canfor
		Core	4.1.1.2 Net Carbon Uptake – Carbon sequestration rate	Maintain or increase baseline 0.93 mega tonnes of carbon per year sequestration rate in the THLB and 0.55 mega tonnes carbon sequestration rate in the NHLB (variance of -10 percent)	The baseline was derived by Forest Ecosystems Solutions (FESL) running a simulation based on all the data inputs from TSR 3. The data will not be re-simulated until the data package for TSR 4 is available as a simulation input. To be completed in 2016	Contractor	Planning Supervisor	Combined/Canfor
		Core	4.1.2 Reforestation Success (covered by 2.1.1)	As per 2.1.1	As per 2.1.1	As per 2.1.1	As per 2.1.1	As per 2.1.1
	4.2 Forest land conversions	Core	4.2.1.1 Additions and deletions to the forest area (covered by 2.2.1)	As per 2.2.1	As per 2.2.1	As per 2.2.1	As per 2.1.1	As per 2.2.1
		Local	4.2.1.2 Evidence of best efforts to coordinate forest management activities with the oil and gas industry	100 percent of annual planned block and road activities submitted to the oil and gas commission	Plan to be submitted by planners upon release date to the public. Check with planning staff to confirm date and report out annually	Planning Forester / Area Forester	Planning Supervisor	Individual
5.0 Economic and social benefits	5.1 Timber and non timber benefits	Core	5.1.1.1 Quantity and quality of timber and non-timber benefits, products and services produced in the DFA - Timber	As per 2.2.2	As per 2.2.2	As per 2.2.2	As per 2.2.2	As per 2.2.2
		Core	5.1.1.2 Quantity and quality of timber and non-timber benefits, products and services produced in the DFA – Non-Timber	100 percent conformance with strategies for non-timber forest products (variance of 0 percent)	Review all Site Plans for roads and blocks for the reporting year. Determine if any blocks had prescribed strategies for NTFPs. Review EMS/FMS ITS for non-conformances regarding NTFPs. Report out annually	Area Forester	Planning Supervisor	Individual

Criteria	Element	Indicator Type	Indicator	Target	Reporting and Monitoring Protocol Reporting Period: April 1 to March 31	Responsibility BCTS	Responsibility Canfor	Participant providing data
		Local	5.1.1.3 Participants forest management activities will not negatively impact established recreational sites and trails	100 Percent of activities will take place outside of established recreation sites and trails (variance allowed for forest health or safety reasons)	Review all site plans for roads and blocks to ascertain whether any activities took place on recreation sites or trails. Report out annually	Area Forester	Planning Supervisor	Individual
		Local	5.1.1.4 Forest Management Activities will be consistent with Visual Quality Objectives (VQO's)	100 percent of forest operations will be consistent with established VQO's (variance allowed for forest health or safety reasons)	Review all site plans for the reporting year. Determine the VQO rating for each activity. Review the EMS/FMS ITS for any non-conformances and non-compliances related to VQO's. Report out annually	Area Forester	Planning Supervisor	Individual
	5.2 Communities and sustainability	Core	5.2.1.1 Level of investment in initiatives that contribute to community sustainability	A) Report out percentage of annual budget spent locally on a 5 year rolling average	Base line data to be run using fiscal data from 2010/11, 2009/10, 2008/09, 2007/08 and 2006/05. New fiscal data will then be added to each subsequent reporting year's rolling average. Report out on an annual basis	Business Manager / Area Forester	Planning Supervisor/ Woodlands Accountant	Individual
				B) Report out total budget spent locally	Report out total local expenditure for the Fiscal Year coinciding with the Reporting year (first report will be 2011/12 financial data)	Business Manager / Area Forester	Planning Supervisor/ Woodlands Accountant	Individual
		Local	5.2.1.2 Amount of Stumpage paid in the Fort Nelson DFA	Report out all stumpage collected in the Fort Nelson DFA	Contact the Forest District revenue staff in March of reporting year and request Stumpage paid to date for the fiscal. Report out annually	Area forester	Planning Supervisor	Combined / BCTS
		Core	5.2.2 Level of investment in training and skill development	100 percent of forestry employees and contractors will have EMS/FMS training and Safety Training (variance of 10 percent)	Consult participant company training records for training dates for EMS/FMS and SAFE company training. Review contract documents for record of contractor EMS/FMS and SAFE company training. Report out annually	Area forester	Planning Supervisor	Individual
		Core	5.2.3 Level of direct and indirect employment	Maintain the level (baseline 2011) level of direct and indirect employment in the Ft Nelson DFA	Consult the participant companies HR records for the direct employment levels at the end of the reporting year. Use this number to calculate the indirect employment using the appropriate TRS multipliers: Wood manufacturing 1.25, Logging (forestry) 1.25, Public sector 1.19	Area forester	Planning Supervisor	Individual
		Core	5.2.4 Level of Aboriginal participation in the forest economy	Report out number of opportunities for First Nations to participate in the forest economy	Assemble list of all Contracts that went out to public tender, Memorandum of Understandings offered, Joint Ventures, Cooperative agreements and directly awarded contracts during the reporting year. Report out annually	Area forester	Planning Supervisor	Individual
6.0 Society's responsibility	6.1 Aboriginal and treaty rights	Core	6.1.1 Evidence of a good understanding of the nature of Aboriginal title and rights	100 percent of Canfor Forest Management Group employees and BCTS Fort Nelson Field team staff will receive First Nations awareness training. (variance of 0 percent)	Consult the participant company training records to percentage of staff having taken aboriginal awareness training. Report out annually	Area Forester	Planning Supervisor	Individual

Criteria	Element	Indicator Type	Indicator	Target	Reporting and Monitoring Protocol Reporting Period: April 1 to March 31	Responsibility BCTS	Responsibility Canfor	Participant providing data
		Core	6.1.2 Evidence of best efforts to obtain acceptance of management plans based on Aboriginal communities having a clear understanding of the plans	100 percent of participants management plans exhibit evidence of best efforts to obtain acceptance aboriginal communities (variance of 0 percent)	Compile a list of all major plans released in the reporting year (FSP, PMP, AOM, SFMP) and Site Plan Information requests. Review Consultation history for each plan for evidence of at least 2 attempts to exchange information and obtain acceptance on each plan. Report out annually	Planning Forester / Area Forester	Planning Supervisor	Individual
		Core	6.1.3 Level of management and/or protection of areas where culturally important practices and activities (hunting fishing, gathering, trapping) occur	100 percent of forest operations in conformance with operational/site plans developed to address aboriginal forest values, knowledge and uses (variance of 0 percent)	Review all site plans and operational plans for evidence of accommodating actions for first nations concerns. Review the EMS/FMS ITS for any non-conformances regarding aboriginal accommodation	Area Forester	Planning Supervisor	Individual
	6.2 Respect for aboriginal forest values, knowledge and uses	Core	6.2.1 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	100 percent of identified aboriginal forest values, knowledge and uses considered in the forestry planning process (variance of 0 percent)	Compile a list of all plans at all levels released to first nations in the reporting year. Review the consultation records for each plan and compile list of comments/concerns received. Look for evidence of an accommodating measure for each comment concern brought forward. Report out annually.	Area Forester / Planning Forester	Planning Supervisor	Individual
	6.3 Forest community well being and resilience	Core	6.3.1 Evidence that the organization has cooperated with other forest-dependant businesses, forest users and local community to strengthen and diversify the local economy	Report out the number of purchase/sale/trade relationships with local forest dependant businesses where primary forest products and by products are involved (no variance)	Compile a list of purchase/sale/ trade relationships in effect during the reporting year. Report out annually	Area Forester	Planning Supervisor	Individual
		Core	6.3.2 Evidence of cooperation with DFA-Related workers to improve and enhance safety standards, procedures and outcomes in all DFA-related workplaces and affected communities	100 percent of Participants and their contractors and licensees will implement and maintain a certified safety program (variance of 10 percent)	Check the SAFE Companies website for the certification status of the Participants and all contractors and licensees employed or otherwise engaged during the reporting year. If a company lost it's certification, ascertain the date to confirm if they were certified while working with the participants. Report out on an annual basis	Area Forester	Planning Supervisor	Individual
		Core	6.3.3 Evidence that a worker safety program has been implemented and is periodically reviewed and improved	A) 100 percent of non-conformities identified by external audits will have an action plan developed and implemented in a manner and timeframe acceptable to the auditor (variance of 0 percent)	Review approved audit action plans for SAFE company certification. Ascertain whether actions have been carried out. Report out on an annual basis	Area Forester	Planning Supervisor	Individual
				B) Annual management review of the safety program will be completed (variance of 0)	Review safety records for evidence of a management review of the safety program. Report out annually	Area Forester	Planning Supervisor	Individual

Criteria	Element	Indicator Type	Indicator	Target	Reporting and Monitoring Protocol Reporting Period: April 1 to March 31	Responsibility BCTS	Responsibility Canfor	Participant providing data
	6.4 Fair and effective decision making	Core	6.4.1 Level of Participant satisfaction with the public participation process	80% or greater level of satisfaction indicated by PRISM established and maintained satisfaction surveys (10 percent variance)	Compile results of all satisfaction surveys administered over the reporting year. Report out on an annual basis	Area Forester	Planning Supervisor	Combined / BCTS
		Core	6.4.2 Evidence of efforts to promote capacity development and meaningful participation in general	1 or more educational opportunities for information/training delivered to the PAG	Review PAG minutes from the reporting year. Compile list of all presentations given to the PAG. Report out annually	Area Forester	Planning Supervisor	Combined / BCTS
		Core	6.4.3 Evidence of efforts to promote capacity development and meaningful participation in Aboriginal communities	See indicator 6.1.2	See indicator 6.1.2	See indicator 6.1.2	See indicator 6.1.2	See indicator 6.1.2
	6.5 Information for decision making	Core	6.5.1 Number of people reached through educational outreach	50 or greater people to whom educational opportunities have been provided by the participants or their representatives	Compile a list of all presentations given to the public (including open houses, presentations and experts brought in on participants behalf). Sum up the total number of people in attendance. Report out annually	Area Forester	Planning Supervisor	Individual
		Core	6.5.2 Availability of summary information on issues of concern to the public	Previous years annual report must be made available to the public via the web prior to March 31st of the current reporting year (variance of 0)	Go to Participant company websites and determine the posting date for the previous years annual report. Report out annually	Area Forester	Planning Supervisor	Individual



## Appendix 1.7

### Current Percentage of Old and Mature + Old in the Defined Forest Area by Landscape Unit-BEC variant

Landscape Unit #	Landscape Unit Name	BEO <sup>1</sup>	BEC variant	BEC Unit <sup>2</sup>	Total Forested Area (ha)	THLB (ha)	Area in old (ha)	Current % Area in Old	Current % Old Target	Do Current Conditions Meet % Old Targets?	Area in Mature +Old (ha)	Current % Area in Mature +Old	Current % Mature +Old Target	Do Current Conditions Meet % Mature + Old Targets?
24	Akue	I	BWBSmw 2	BWBS_c	36,850	12,073	267	0.7	11.0	no	22,601	60.6	23.0	yes
24	Akue	I	BWBSmw 2	BWBS_d	23,562	16,300	12,682	53.0	13.0	yes	17,263	72.2	23.0	yes
14	Big_Beaver	I	BWBSmw 2	BWBS_c	72,334	10,296	411	0.6	11.0	no	24,785	33.9	23.0	yes
14	Big_Beaver	I	BWBSmw 2	BWBS_d	24,108	10,351	4,056	16.4	13.0	yes	7,877	31.9	23.0	yes
14	Big_Beaver	I	BWBSwk 3	BWBS_c	1,271	163	8	0.6	11.0	no	226	17.4	23.0	no
82	Boreal	I	BWBSdk 1	BWBS_c	15,143	2,384	5,208	34.4	11.0	yes	10,013	66.1	23.0	yes
82	Boreal	I	BWBSdk 1	BWBS_d	4,299	242	1,314	30.6	13.0	yes	1,333	31.0	23.0	yes
82	Boreal	I	SWB mk	SWB	51,882	4,010	90	0.2	9.0	no				
82	Boreal	I	SWB mks	SWB	6,009	6	0	0.0	9.0	no				
31	Bunch	L	BWBSmw 2	BWBS_c	36,053	4,151	1,368	3.8	3.7	yes	4,982	13.8	11.0	yes
31	Bunch	L	BWBSmw 2	BWBS_d	15,672	6,467	1,348	8.6	4.3	yes	3,963	25.2	13.0	yes
31	Bunch	L	BWBSwk 3	BWBS_c	2,464	41	0	0.0	3.7	no	69	2.8	11.0	no
31	Bunch	L	BWBSwk 3	BWBS_d	543	61	0	0.0	4.3	no	112	20.5	13.0	yes
31	Bunch	L	SWB mk	SWB	6,858	25	0	0.0	3.0	no				
19	Capot_Blanc	I	BWBSmw 2	BWBS_c	14,742	8,926	3,722	24.7	11.0	yes	6,727	44.7	23.0	yes
19	Capot_Blanc	I	BWBSmw 2	BWBS_d	23,931	13,875	13,075	54.0	13.0	yes	16,519	68.2	23.0	yes
37	Catkin	I	BWBSmw 2	BWBS_c	16,571	11,841	8,296	49.9	11.0	yes	15,808	95.0	23.0	yes
37	Catkin	I	BWBSmw 2	BWBS_d	14,293	10,197	14,119	98.3	13.0	yes	14,253	99.3	23.0	yes
78	Chee	I	BWBSdk 1	BWBS_d	2,976	69	67	2.2	13.0	no	72	2.4	23.0	no
78	Chee	I	BWBSdk 2	BWBS_c	3,042	421	351	11.5	11.0	yes	1,759	57.8	23.0	yes
78	Chee	I	BWBSdk 2	BWBS_d	11,202	0	25	0.2	13.0	no	60	0.5	23.0	no
78	Chee	I	SWB mk	SWB	33,568	3,144	0	0.0	9.0	no				
74	Coal	L	BWBSdk 2	BWBS_c	59,279	13,342	6,262	10.5	3.7	yes	16,055	27.0	11.0	yes
74	Coal	L	BWBSdk 2	BWBS_d	1,661	612	248	14.8	4.3	yes	262	15.7	13.0	yes
74	Coal	L	SWB mk	SWB	3,051	278	0	0.0	3.0	no				
47	Crehan	I	BWBSmw 2	BWBS_c	1,549	15	375	24.2	11.0	yes	1,386	89.4	23.0	yes
47	Crehan	I	BWBSmw 2	BWBS_d	4,819	40	1,867	38.7	13.0	yes	3,350	69.4	23.0	yes
47	Crehan	I	SWB mk	SWB	27,435	0	2,380	8.7	9.0	no				

Landscape Unit #	Landscape Unit Name	BEO <sup>1</sup>	BEC variant	BEC Unit <sup>2</sup>	Total Forested Area (ha)	THLB (ha)	Area in old (ha)	Current % Area in Old	Current % Old Target	Do Current Conditions Meet % Old Targets?	Area in Mature +Old (ha)	Current % Area in Mature +Old	Current % Mature +Old Target	Do Current Conditions Meet % Mature + Old Targets?
47	Crehan	I	SWB mks	SWB	564	0	27	4.8	9.0	no				
39	Crow	I	BWBSmw 2	BWBS_c	43,202	11,044	13,535	31.1	11.0	yes	41,427	95.2	23.0	yes
39	Crow	I	BWBSmw 2	BWBS_d	21,969	13,046	17,669	79.6	13.0	yes	21,422	96.5	23.0	yes
39	Crow	I	BWBSwk 3	BWBS_c	4,433	39	547	12.3	11.0	yes	4,429	99.8	23.0	yes
39	Crow	I	SWB mk	SWB	1,170	0	0	0.0	9.0	no				
42	Crusty	I	BWBSmw 2	BWBS_c	13,474	3,218	3,786	28.1	11.0	yes	11,251	83.4	23.0	yes
42	Crusty	I	BWBSmw 2	BWBS_d	11,885	2,942	8,975	75.3	13.0	yes	11,398	95.6	23.0	yes
42	Crusty	I	SWB mk	SWB	3,590	12	0	0.0	9.0	no				
17	D_Easum	L	BWBSmw 2	BWBS_c	29,963	11,034	7,592	25.2	3.7	yes	16,296	54.2	11.0	yes
17	D_Easum	L	BWBSmw 2	BWBS_d	33,117	10,393	8,257	24.8	4.3	yes	9,391	28.3	13.0	yes
8	Dilly	L	BWBSmw 2	BWBS_c	25,630	4,457	4,193	16.3	3.7	yes	8,571	33.3	11.0	yes
8	Dilly	L	BWBSmw 2	BWBS_d	9,295	2,709	2,027	21.6	4.3	yes	3,015	32.2	13.0	yes
35	Dunedin	H	BWBSmw 2	BWBS_c	51,334	8,171	5,223	10.2	16.0	no	33,021	64.3	34.0	yes
35	Dunedin	H	BWBSmw 2	BWBS_d	19,523	3,729	8,472	43.2	19.0	yes	11,001	56.1	34.0	yes
35	Dunedin	H	BWBSwk 3	BWBS_c	1,787	31	12	0.6	16.0	no	650	36.4	34.0	yes
35	Dunedin	H	SWB mk	SWB	3,990	26	0	0.0	13.0	no				
54	Eight_Mile	L	BWBSmw 2	BWBS_c	5,427	110	1,243	22.8	3.7	yes	1,410	25.9	11.0	yes
54	Eight_Mile	L	BWBSmw 2	BWBS_d	5,375	411	314	5.8	4.3	yes	542	10.0	13.0	no
54	Eight_Mile	L	SWB mk	SWB	33,993	911	0	0.0	3.0	no				
11	Elleh	L	BWBSmw 2	BWBS_c	61,203	9,600	194	0.3	3.7	no	10,741	17.4	11.0	yes
11	Elleh	L	BWBSmw 2	BWBS_d	29,739	15,907	4,760	15.8	4.3	yes	7,431	24.6	13.0	yes
12	Eskai	L	BWBSmw 2	BWBS_c	118,202	12,043	776	0.7	3.7	no	30,989	26.0	11.0	yes
12	Eskai	L	BWBSmw 2	BWBS_d	28,777	14,169	6,505	22.2	4.3	yes	10,601	36.2	13.0	yes
21	Etane	I	BWBSmw 2	BWBS_c	29,650	14,399	970	3.2	11.0	no	22,373	74.4	23.0	yes
21	Etane	I	BWBSmw 2	BWBS_d	17,715	10,335	10,708	59.9	13.0	yes	14,943	83.6	23.0	yes
33	Falk	I	BWBSmw 2	BWBS_c	66,901	10,589	9,864	14.7	11.0	yes	26,315	39.2	23.0	yes
33	Falk	I	BWBSmw 2	BWBS_d	24,597	3,224	3,984	16.1	13.0	yes	11,166	45.3	23.0	yes
33	Falk	I	SWB mk	SWB	34,829	133	0	0.0	9.0	no				
61	Forcier	L	BWBSdk 2	BWBS_c	23,439	430	1,080	4.6	3.7	yes	1,730	7.4	11.0	no
61	Forcier	L	SWB mk	SWB	14,640	373	0	0.0	3.0	no				
61	Forcier	L	SWB mks	SWB	1,332	4	0	0.0	3.0	no				
67	Fort_Nelson_River_A	L	BWBSmw 2	BWBS_c	6,939	3,793	174	2.5	3.7	no	3,814	53.8	11.0	yes
67	Fort_Nelson_River_A	L	BWBSmw 2	BWBS_d	13,930	6,268	3,556	24.9	4.3	yes	5,344	37.4	13.0	yes
66	Fort_Nelson_River_B	L	BWBSmw 2	BWBS_c	14,561	8,345	1,198	8.1	3.7	yes	7,834	52.7	11.0	yes
66	Fort_Nelson_River_B	L	BWBSmw 2	BWBS_d	21,315	12,175	7,181	32.9	4.3	yes	13,402	61.4	13.0	yes

Landscape Unit #	Landscape Unit Name	BEO <sup>1</sup>	BEC variant	BEC Unit <sup>2</sup>	Total Forested Area (ha)	THLB (ha)	Area in old (ha)	Current % Area in Old	Current % Old Target	Do Current Conditions Meet % Old Targets?	Area in Mature +Old (ha)	Current % Area in Mature +Old	Current % Mature +Old Target	Do Current Conditions Meet % Mature + Old Targets?
32	Gammer	I	BWBSmw 2	BWBS_c	15,359	3,378	821	5.3	11.0	no	4,563	29.6	23.0	yes
32	Gammer	I	BWBSmw 2	BWBS_d	7,105	1,599	955	13.4	13.0	yes	1,710	24.0	23.0	yes
32	Gammer	I	BWBSwk 3	BWBS_c	433	27	0	0.0	11.0	no	21	4.9	23.0	no
32	Gammer	I	SWB mk	SWB	7,305	237	0	0.0	9.0	no				
46	Gathto	L	BWBSmw 2	BWBS_c	553	0	76	13.6	3.7	yes	259	46.6	11.0	yes
46	Gathto	L	SWB mk	SWB	18,111	0	2,078	11.5	3.0	yes				
46	Gathto	L	SWB mks	SWB	739	0	265	35.9	3.0	yes				
76	Gemini	I	BWBSdk 2	BWBS_c	32,285	5,782	6,534	20.2	11.0	yes	10,526	32.6	23.0	yes
76	Gemini	I	BWBSdk 2	BWBS_d	7,557	431	1,757	23.3	13.0	yes	2,209	29.2	23.0	yes
76	Gemini	I	SWB mk	SWB	926	37	0	0.0	9.0	no				
41	Graybank	L	BWBSdk 2	BWBS_c	1,631	0	1,365	83.7	3.7	yes	1,623	99.5	11.0	yes
41	Graybank	L	BWBSdk 2	BWBS_d	802	0	603	75.2	4.3	yes	603	75.2	13.0	yes
41	Graybank	L	BWBSmw 2	BWBS_c	18,456	9,005	2,587	14.0	3.7	yes	15,128	81.8	11.0	yes
41	Graybank	L	BWBSmw 2	BWBS_d	25,266	9,090	15,247	60.3	4.3	yes	18,933	74.9	13.0	yes
41	Graybank	L	BWBSwk 3	BWBS_c	6,770	2,970	80	1.2	3.7	no	4,547	67.1	11.0	yes
41	Graybank	L	BWBSwk 3	BWBS_d	995	46	211	21.2	4.3	yes	421	42.3	13.0	yes
41	Graybank	L	SWB mk	SWB	4,988	470	0	0.0	3.0	no				
57	Grayling	L	BWBSmw 2	BWBS_c	20,228	4,593	2,111	10.4	3.7	yes	6,748	33.1	11.0	yes
57	Grayling	L	BWBSmw 2	BWBS_d	2,499	783	78	3.1	4.3	no	2,292	91.1	13.0	yes
57	Grayling	L	BWBSwk 3	BWBS_c	21,301	5,957	1,174	5.5	3.7	yes	8,817	41.3	11.0	yes
57	Grayling	L	BWBSwk 3	BWBS_d	1,121	33	70	6.3	4.3	yes	809	72.1	13.0	yes
57	Grayling	L	SWB mk	SWB	72,604	9,150	0	0.0	3.0	no				
57	Grayling	L	SWB mks	SWB	1,188	57	0	0.0	3.0	no				
79	Gundahoo	I	BWBSdk 2	BWBS_c	3,875	941	2,073	53.5	11.0	yes	3,872	99.9	23.0	yes
79	Gundahoo	I	SWB mk	SWB	46,856	3,897	0	0.0	9.0	no				
79	Gundahoo	I	SWB mks	SWB	5,064	25	0	0.0	9.0	no				
71	Hay_River	I	BWBSmw 2	BWBS_c	3,752	1,209	2,891	76.8	11.0	yes	3,181	84.6	23.0	yes
71	Hay_River	I	BWBSmw 2	BWBS_d	2,794	1,744	606	21.6	13.0	yes	869	31.0	23.0	yes
30	Hewer	I	BWBSmw 2	BWBS_c	1,455	106	891	60.9	11.0	yes	1,022	69.9	23.0	yes
30	Hewer	I	BWBSmw 2	BWBS_d	808	65	64	7.9	13.0	no	64	7.9	23.0	no
30	Hewer	I	SWB mk	SWB	31,429	336	7,626	24.3	9.0	yes				
30	Hewer	I	SWB mks	SWB	1,128	0	298	26.5	9.0	yes				
10	Hoffard	I	BWBSmw 2	BWBS_c	86,188	4,909	46	0.1	11.0	no	21,619	24.8	23.0	yes
10	Hoffard	I	BWBSmw 2	BWBS_d	35,819	19,721	573	1.6	13.0	no	1,503	4.1	23.0	no
26	Holden	L	BWBSmw 2	BWBS_c	60,880	12,868	1,419	2.3	3.7	no	24,464	40.0	11.0	yes

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26	Holden	L	BWBSmw 2	BWBS_d	34,968	8,222	4,137	11.8	4.3	yes	7,365	21.0	13.0	yes
26	Holden	L	BWBSwk 3	BWBS_c	15,971	838	564	3.5	3.7	no	5,474	34.1	11.0	yes
26	Holden	L	BWBSwk 3	BWBS_d	2,204	33	44	2.0	4.3	no	109	4.9	13.0	no
26	Holden	L	SWB mk	SWB	30,409	1,403	16	0.1	3.0	no				
6	Hossitl	L	BWBSmw 2	BWBS_c	9,696	6,945	1,369	14.0	3.7	yes	3,273	33.6	11.0	yes
6	Hossitl	L	BWBSmw 2	BWBS_d	31,599	1,285	1,211	3.8	4.3	no	3,934	12.4	13.0	no
36	Irene_E	I	BWBSmw 2	BWBS_c	33,614	6,241	2,160	6.3	11.0	no	30,993	91.0	23.0	yes
36	Irene_E	I	BWBSmw 2	BWBS_d	12,530	9,007	6,365	49.7	13.0	yes	12,172	95.0	23.0	yes
36	Irene_W	H	BWBSmw 2	BWBS_c	55,677	14,654	4,334	7.7	16.0	no	52,610	94.0	34.0	yes
36	Irene_W	H	BWBSmw 2	BWBS_d	30,858	20,561	17,911	57.7	19.0	yes	29,791	95.9	34.0	yes
36	Irene_W	H	BWBSwk 3	BWBS_c	1,274	274	26	2.1	16.0	no	1,102	86.5	34.0	yes
27	Jackknife	L	BWBSmw 2	BWBS_c	26,305	4,001	93	0.4	3.7	no	5,827	21.9	11.0	yes
27	Jackknife	L	BWBSmw 2	BWBS_d	9,258	2,810	775	8.3	4.3	yes	2,111	22.6	13.0	yes
1	July_Lake	L	BWBSmw 2	BWBS_c	33,345	21,608	852	2.5	3.7	no	11,021	32.9	11.0	yes
1	July_Lake	L	BWBSmw 2	BWBS_d	17,372	2,305	2,949	16.8	4.3	yes	10,570	60.3	13.0	yes
73	Kechika_River	H	BWBSdk 1	BWBS_c	15,868	3,219	5,712	35.9	16.0	yes	12,457	78.3	34.0	yes
73	Kechika_River	H	BWBSdk 1	BWBS_d	12,858	542	4,390	34.0	19.0	yes	4,592	35.6	34.0	yes
73	Kechika_River	H	BWBSdk 2	BWBS_c	104,762	50,966	20,441	19.5	16.0	yes	79,978	76.3	34.0	yes
73	Kechika_River	H	BWBSdk 2	BWBS_d	31,641	2,792	9,850	31.1	19.0	yes	13,990	44.1	34.0	yes
73	Kechika_River	H	SWB mk	SWB	18,246	3,005	0	0.0	13.0	no				
75	Kitza	I	BWBSdk 2	BWBS_c	17,663	9,657	614	3.5	11.0	no	8,538	48.3	23.0	yes
75	Kitza	I	BWBSdk 2	BWBS_d	2,276	316	453	19.9	13.0	yes	1,339	58.8	23.0	yes
75	Kitza	I	SWB mk	SWB	924	170	0	0.0	9.0	no				
16	Kiwigana	I	BWBSmw 2	BWBS_c	118,009	23,738	38,937	32.8	11.0	yes	82,391	69.4	23.0	yes
16	Kiwigana	I	BWBSmw 2	BWBS_d	83,134	61,409	17,507	20.9	13.0	yes	29,200	34.8	23.0	yes
34	Kledo	I	BWBSmw 2	BWBS_c	97,836	16,697	1,529	1.5	11.0	no	71,785	72.7	23.0	yes
34	Kledo	I	BWBSmw 2	BWBS_d	33,953	16,295	9,941	29.0	13.0	yes	25,209	73.6	23.0	yes
34	Kledo	I	BWBSwk 3	BWBS_c	18,912	1,866	855	4.5	11.0	no	11,117	58.5	23.0	yes
34	Kledo	I	BWBSwk 3	BWBS_d	1,832	139	155	8.4	13.0	no	290	15.8	23.0	no
34	Kledo	I	SWB mk	SWB	38	0	0	0.0	9.0	no				
25	Klowee	I	BWBSmw 2	BWBS_c	28,214	5,259	302	1.1	11.0	no	11,355	39.6	23.0	yes
25	Klowee	I	BWBSmw 2	BWBS_d	21,423	14,097	9,054	41.8	13.0	yes	11,561	53.4	23.0	yes
13	Klua	I	BWBSmw 2	BWBS_c	46,853	5,916	844	1.8	11.0	no	17,295	36.7	23.0	yes
13	Klua	I	BWBSmw 2	BWBS_d	22,702	6,935	2,804	12.3	13.0	no	7,071	31.0	23.0	yes
13	Klua	I	BWBSwk 3	BWBS_c	4,935	719	90	1.8	11.0	no	1,729	34.7	23.0	yes

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5	Kwokullie	I	BWBSmw 2	BWBS_c	54,957	2,626	1,773	3.2	11.0	no	8,347	15.1	23.0	no
5	Kwokullie	I	BWBSmw 2	BWBS_d	3,771	1,955	317	8.4	13.0	no	641	16.9	23.0	no
4	Kyklo	L	BWBSmw 2	BWBS_c	68,758	28,055	13,646	19.6	3.7	yes	27,738	39.8	11.0	yes
4	Kyklo	L	BWBSmw 2	BWBS_d	81,645	39,490	9,365	11.4	4.3	yes	19,993	24.3	13.0	yes
38	La_Biche	I	BWBSmw 2	BWBS_c	38,877	23,619	16,249	40.6	11.0	yes	17,751	44.3	23.0	yes
38	La_Biche	I	BWBSmw 2	BWBS_d	24,088	9,676	10,454	42.8	13.0	yes	14,274	58.4	23.0	yes
60	Liard_Hot_Springs	I	BWBSdk 2	BWBS_c	27,579	3,654	2,048	7.4	11.0	no	3,174	11.5	23.0	no
60	Liard_Hot_Springs	I	BWBSdk 2	BWBS_d	5,986	481	980	16.3	13.0	yes	980	16.3	23.0	no
60	Liard_Hot_Springs	I	SWB mk	SWB	12,233	145	0	0.0	9.0	no				
63	Liard_River_A	I	BWBSdk 2	BWBS_c	97,720	16,598	14,018	14.3	11.0	yes	26,220	26.7	23.0	yes
63	Liard_River_A	I	BWBSdk 2	BWBS_d	18,440	4,897	4,526	24.4	13.0	yes	4,617	24.9	23.0	yes
63	Liard_River_A	I	SWB mk	SWB	2,691	114	0	0.0	9.0	no				
64	Liard_River_B	I	BWBSmw 2	BWBS_c	10,542	2,666	3,189	30.2	11.0	yes	9,414	89.0	23.0	yes
64	Liard_River_B	I	BWBSmw 2	BWBS_d	22,258	5,207	12,438	55.8	13.0	yes	19,182	86.0	23.0	yes
65	Liard_River_C	H	BWBSmw 2	BWBS_c	37,116	25,872	25,292	66.7	16.0	yes	28,722	75.7	34.0	yes
65	Liard_River_C	H	BWBSmw 2	BWBS_d	29,974	16,776	21,604	71.3	19.0	yes	25,678	84.8	34.0	yes
49	MacDonald	I	BWBSmw 2	BWBS_c	1,235	160	301	24.4	11.0	yes	321	26.0	23.0	yes
49	MacDonald	I	BWBSmw 2	BWBS_d	1,475	0	0	0.0	13.0	no	591	40.1	23.0	yes
49	MacDonald	I	SWB mk	SWB	20,969	2,469	88	0.4	9.0	no				
83	Major_Hart	I	BWBSdk 1	BWBS_c	27,239	8,309	10,860	39.7	11.0	yes	17,980	65.7	23.0	yes
83	Major_Hart	I	BWBSdk 1	BWBS_d	8,540	1,136	745	8.7	13.0	no	1,473	17.2	23.0	no
83	Major_Hart	I	BWBSdk 2	BWBS_c	6,944	3,507	993	14.3	11.0	yes	5,574	80.3	23.0	yes
83	Major_Hart	I	BWBSdk 2	BWBS_d	1,068	0	772	72.3	13.0	yes	918	86.0	23.0	yes
83	Major_Hart	I	SWB mk	SWB	84,008	8,016	222	0.3	9.0	no				
83	Major_Hart	I	SWB mks	SWB	3,239	65	8	0.3	9.0	no				
81	Matulka	I	BWBSdk 1	BWBS_c	778	241	141	18.2	11.0	yes	413	53.1	23.0	yes
81	Matulka	I	BWBSdk 1	BWBS_d	4,043	507	1,177	29.1	13.0	yes	1,228	30.4	23.0	yes
81	Matulka	I	SWB mk	SWB	12,152	326	3	0.0	9.0	no				
81	Matulka	I	SWB mks	SWB	1,374	15	0	0.0	9.0	no				
28	Minaker	I	BWBSmw 2	BWBS_c	49,046	7,860	1,558	3.1	11.0	no	9,339	18.9	23.0	no
28	Minaker	I	BWBSmw 2	BWBS_d	19,222	7,699	850	4.4	13.0	no	2,900	14.9	23.0	no
28	Minaker	I	BWBSwk 3	BWBS_c	1,583	180	32	2.0	11.0	no	378	23.2	23.0	yes
28	Minaker	I	BWBSwk 3	BWBS_d	450	27	27	6.0	13.0	no	162	35.5	23.0	yes
28	Minaker	I	SWB mk	SWB	866	11	0	0.0	9.0	no				
51	Moose	I	SWB mk	SWB	15,135	2,634	48	0.3	9.0	no				



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56	Moule	L	BWBSdk 2	BWBS_c	21,198	375	3,370	15.8	3.7	yes	4,465	21.0	11.0	yes
56	Moule	L	BWBSdk 2	BWBS_d	11,181	156	839	7.5	4.3	yes	965	8.6	13.0	no
56	Moule	L	SWB mk	SWB	11,259	852	0	0.0	3.0	no				
53	Muncho	L	BWBSdk 2	BWBS_c	9,258	112	777	8.4	3.7	yes	975	10.5	11.0	no
53	Muncho	L	BWBSdk 2	BWBS_d	1,657	14	14	0.8	4.3	no	34	2.0	13.0	no
53	Muncho	L	SWB mk	SWB	29,799	140	949	3.2	3.0	yes				
53	Muncho	L	SWB mks	SWB	1,711	0	86	5.0	3.0	yes				
70	Muskwa_River_A	L	BWBSmw 2	BWBS_c	11,771	2,410	2,792	23.6	3.7	yes	6,987	59.2	11.0	yes
70	Muskwa_River_A	L	BWBSmw 2	BWBS_d	5,743	876	1,033	17.9	4.3	yes	1,799	31.2	13.0	yes
70	Muskwa_River_A	L	SWB mk	SWB	1,632	0	81	4.9	3.0	yes				
68	Muskwa_River_B	L	BWBSmw 2	BWBS_c	15,333	6,954	328	2.1	3.7	no	8,630	54.9	11.0	yes
68	Muskwa_River_B	L	BWBSmw 2	BWBS_d	11,881	5,899	4,349	35.5	4.3	yes	5,934	48.5	13.0	yes
80	Netson	I	BWBSdk 2	BWBS_c	10,641	3,904	3,690	34.7	11.0	yes	9,070	85.2	23.0	yes
80	Netson	I	SWB mk	SWB	68,378	10,117	0	0.0	9.0	no				
80	Netson	I	SWB mks	SWB	6,199	294	0	0.0	9.0	no				
7	Ootta	I	BWBSmw 2	BWBS_c	17,802	3,996	1,772	9.9	11.0	no	6,263	35.1	23.0	yes
7	Ootta	I	BWBSmw 2	BWBS_d	29,267	3,828	3,692	12.6	13.0	no	5,174	17.6	23.0	no
52	Otelsas	I	BWBSmw 2	BWBS_c	343	0	22	6.2	11.0	no	71	20.2	23.0	no
52	Otelsas	I	SWB mk	SWB	22,011	288	3,147	14.2	9.0	yes				
52	Otelsas	I	SWB mks	SWB	983	0	340	34.6	9.0	yes				
20	Patry	I	BWBSmw 2	BWBS_c	36,974	8,079	1,859	5.0	11.0	no	20,835	55.7	23.0	yes
20	Patry	I	BWBSmw 2	BWBS_d	31,123	17,982	8,054	25.4	13.0	yes	16,007	50.5	23.0	yes
72	Petitot_River	I	BWBSmw 2	BWBS_c	3,327	1,661	1,052	31.1	11.0	yes	2,491	73.7	23.0	yes
72	Petitot_River	I	BWBSmw 2	BWBS_d	10,065	1,078	521	5.1	13.0	no	1,021	10.1	23.0	no
23	Pouce	L	BWBSmw 2	BWBS_c	37,607	9,654	393	1.0	3.7	no	18,783	49.0	11.0	yes
23	Pouce	L	BWBSmw 2	BWBS_d	45,720	32,346	17,814	38.1	4.3	yes	31,340	67.1	13.0	yes
69	Prophet_River	L	BWBSmw 2	BWBS_c	10,741	6,269	241	2.2	3.7	no	4,381	39.9	11.0	yes
69	Prophet_River	L	BWBSmw 2	BWBS_d	17,414	9,010	4,520	25.4	4.3	yes	6,754	37.9	13.0	yes
77	Rabbit	L	BWBSdk 2	BWBS_c	50,549	6,914	7,382	14.6	3.7	yes	12,211	24.1	11.0	yes
77	Rabbit	L	BWBSdk 2	BWBS_d	12,441	986	537	4.3	4.3	yes	668	5.4	13.0	no
77	Rabbit	L	SWB mk	SWB	16,614	1,035	0	0.0	3.0	no				
48	Racing	L	SWB mk	SWB	13,712	44	4,722	34.0	3.0	yes				
48	Racing	L	SWB mks	SWB	588	0	274	46.6	3.0	yes				
43	Ram	L	BWBSmw 2	BWBS_c	12,391	1,392	6,528	52.6	3.7	yes	11,308	91.1	11.0	yes
43	Ram	L	BWBSmw 2	BWBS_d	2,447	344	1,673	68.3	4.3	yes	1,773	72.3	13.0	yes

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43	Ram	L	SWB mk	SWB	23,149	298	0	0.0	3.0	no				
58	Redpott	I	BWBSwk 3	BWBS_c	6,657	1,984	1,318	19.8	11.0	yes	6,657	100.0	23.0	yes
58	Redpott	I	SWB mk	SWB	26,019	3,822	0	0.0	9.0	no				
29	Richards	L	BWBSmw 2	BWBS_c	1,663	194	712	42.7	3.7	yes	1,046	62.7	11.0	yes
29	Richards	L	BWBSmw 2	BWBS_d	284	0	7	2.3	4.3	no	7	2.3	13.0	no
29	Richards	L	SWB mk	SWB	24,292	601	3,345	13.8	3.0	yes				
29	Richards	L	SWB mks	SWB	1,379	0	327	23.7	3.0	yes				
9	Sahtaneh	L	BWBSmw 2	BWBS_c	340,234	24,884	13,848	4.0	3.7	yes	72,493	21.2	11.0	yes
9	Sahtaneh	L	BWBSmw 2	BWBS_d	62,915	39,749	2,758	4.3	4.3	yes	6,613	10.4	13.0	no
18	Sandy	I	BWBSmw 2	BWBS_c	9,844	7,186	5,286	52.9	11.0	yes	6,785	67.9	23.0	yes
18	Sandy	I	BWBSmw 2	BWBS_d	17,526	8,794	4,959	28.1	13.0	yes	7,027	39.9	23.0	yes
40	Scatter	I	BWBSmw 2	BWBS_c	32,380	1,925	2,723	8.4	11.0	no	31,574	97.3	23.0	yes
40	Scatter	I	BWBSmw 2	BWBS_d	2,770	17	2,341	84.4	13.0	yes	2,739	98.8	23.0	yes
40	Scatter	I	BWBSwk 3	BWBS_c	31,913	1,844	1,250	3.9	11.0	no	30,472	95.3	23.0	yes
40	Scatter	I	SWB mk	SWB	33,074	191	0	0.0	9.0	no				
84	Sharktooth	L	BWBSdk 1	BWBS_c	13,602	3,527	5,853	42.9	3.7	yes	11,357	83.3	11.0	yes
84	Sharktooth	L	BWBSdk 1	BWBS_d	1,060	0	608	57.0	4.3	yes	835	78.3	13.0	yes
84	Sharktooth	L	SWB mk	SWB	35,433	4,053	0	0.0	3.0	no				
84	Sharktooth	L	SWB mks	SWB	1,891	18	0	0.0	3.0	no				
2	Shekilie	L	BWBSmw 2	BWBS_c	66,479	25,370	13,906	20.8	3.7	yes	31,883	47.7	11.0	yes
2	Shekilie	L	BWBSmw 2	BWBS_d	61,366	12,760	14,200	23.0	4.3	yes	24,004	38.8	13.0	yes
59	Smith	I	BWBSdk 2	BWBS_c	138,986	57,241	13,534	9.7	11.0	no	36,361	26.1	23.0	yes
59	Smith	I	BWBSdk 2	BWBS_d	1,725	372	629	36.5	13.0	yes	629	36.5	23.0	yes
59	Smith	I	BWBSwk 3	BWBS_c	994	594	26	2.6	11.0	no	969	96.7	23.0	yes
59	Smith	I	SWB mk	SWB	23,164	3,580	0	0.0	9.0	no				
15	Snake	I	BWBSmw 2	BWBS_c	25,360	7,108	317	1.2	11.0	no	8,402	32.8	23.0	yes
15	Snake	I	BWBSmw 2	BWBS_d	24,199	16,276	6,424	26.0	13.0	yes	11,891	48.2	23.0	yes
22	Stanolind	L	BWBSmw 2	BWBS_c	58,114	14,162	897	1.5	3.7	no	23,327	39.7	11.0	yes
22	Stanolind	L	BWBSmw 2	BWBS_d	43,927	22,423	15,524	34.6	4.3	yes	22,339	49.9	13.0	yes
55	Sulpher	L	BWBSdk 2	BWBS_c	20,585	488	8,047	39.0	3.7	yes	10,778	52.2	11.0	yes
55	Sulpher	L	BWBSdk 2	BWBS_d	12,534	150	1,947	15.4	4.3	yes	3,073	24.4	13.0	yes
55	Sulpher	L	BWBSmw 2	BWBS_d	608	0	608	100.0	4.3	yes	608	100.0	13.0	yes
55	Sulpher	L	SWB mk	SWB	22,750	668	0	0.0	3.0	no				
50	Tentsi	I	BWBSmw 2	BWBS_c	3,357	788	587	17.2	11.0	yes	629	18.4	23.0	no
50	Tentsi	I	BWBSmw 2	BWBS_d	2,863	0	161	5.5	13.0	no	709	24.1	23.0	yes

Landscape Unit #	Landscape Unit Name	BEO <sup>1</sup>	BEC variant	BEC Unit <sup>2</sup>	Total Forested Area (ha)	THLB (ha)	Area in old (ha)	Current % Area in Old	Current % Old Target	Do Current Conditions Meet % Old Targets?	Area in Mature +Old (ha)	% Area in Mature +Old	% Mature +Old Target	Do Current Conditions Meet % Mature + Old Targets?
50	Tentsi	I	SWB mk	SWB	19,784	4,083	11	0.1	9.0	no				
44	Tetsa	L	BWBSmw	BWBS_c	178	0	86	48.2	3.7	yes	163	91.8	11.0	yes
44	Tetsa	L	SWB mk	SWB	19,925	15	232	1.2	3.0	no				
44	Tetsa	L	SWB mks	SWB	640	0	87	13.6	3.0	yes				
3	Timberwolf	I	BWBSmw	BWBS_c	31,246	15,137	4,151	13.2	11.0	yes	12,183	38.7	23.0	yes
3	Timberwolf	I	BWBSmw	BWBS_d	35,523	22,612	4,649	13.0	13.0	yes	17,851	50.0	23.0	yes
45	Tuchodi	L	BWBSmw	BWBS_c	1,536	0	858	55.8	3.7	yes	862	56.1	11.0	yes
45	Tuchodi	L	BWBSmw	BWBS_d	2,736	0	41	1.5	4.3	no	47	1.7	13.0	no
45	Tuchodi	L	SWB mk	SWB	58,704	0	2,666	4.5	3.0	yes				
45	Tuchodi	L	SWB mks	SWB	2,718	0	96	3.5	3.0	yes				
62	Vents	L	BWBSdk	BWBS_c	60,535	17,640	6,802	11.2	3.7	yes	14,130	23.3	11.0	yes
62	Vents	L	BWBSdk	BWBS_d	899	84	99	11.0	4.3	yes	290	32.3	13.0	yes
62	Vents	L	SWB mk	SWB	29,852	2,839	0	0.0	3.0	no				

1 BEO = Biodiversity Emphasis Option and it can be L= low, I= intermediate, and H=high

2 BWBS\_c= BWBS with predominantly conifers, BWBS\_d = BWBS with predominately deciduous

Information Only



Please insert text under the current conditions for patch sizes: Of the 390 LU-NDT-patch size combinations, 286 do not currently meet the patch size targets, 32 are currently met, and 72 do not have young patches.

Table X: Current Conditions of Young Patch Sizes by Landscape Unit-Natural Disturbance Type.

Landscape Unit #	Landscape Unit Name	Natural Disturbance Type	Patch Size Range	Percent Area in Patch Size Target	Current % in Patch Size	Total Area in young patches for the Layer-NDT (ha)	Area in patch size group (ha)	Does Current Conditions Meet Patch Size Target?
1	July_Lake	NDT 3 BWBS	< 40	10 - 20	0	0	0	n/a
1	July_Lake	NDT 3 BWBS	40 - 250	10 - 20	0	0	0	n/a
1	July_Lake	NDT 3 BWBS	250 - 1000	60 - 80	0	0	0	n/a
1	July_Lake	NDT 3 BWBS	> 1000	no target	0	0	0	n/a
2	Shekilie	NDT 3 BWBS	< 40	10 - 20	1	15,999	227	no
2	Shekilie	NDT 3 BWBS	40 - 250	10 - 20	4	15,999	552	no
2	Shekilie	NDT 3 BWBS	250 - 1000	60 - 80	11	15,999	1,767	no
2	Shekilie	NDT 3 BWBS	> 1000	no target	84	15,999	13,453	n/a
3	Timberwolf	NDT 3 BWBS	< 40	10 - 20	3	11,629	380	no
3	Timberwolf	NDT 3 BWBS	40 - 250	10 - 20	4	11,629	459	no
3	Timberwolf	NDT 3 BWBS	250 - 1000	60 - 80	3	11,629	295	no
3	Timberwolf	NDT 3 BWBS	> 1000	no target	90	11,629	10,496	n/a
4	Kyklo	NDT 3 BWBS	< 40	10 - 20	7	8,661	568	no
4	Kyklo	NDT 3 BWBS	40 - 250	10 - 20	18	8,661	1,571	yes
4	Kyklo	NDT 3 BWBS	250 - 1000	60 - 80	26	8,661	2,217	no
4	Kyklo	NDT 3 BWBS	> 1000	no target	50	8,661	4,305	n/a
5	Kwokullie	NDT 3 BWBS	< 40	10 - 20	10	1,125	108	no
5	Kwokullie	NDT 3 BWBS	40 - 250	10 - 20	24	1,125	267	no
5	Kwokullie	NDT 3 BWBS	250 - 1000	60 - 80	67	1,125	750	yes
5	Kwokullie	NDT 3 BWBS	> 1000	no target	0	1,125	0	n/a
6	Hossitl	NDT 3 BWBS	< 40	10 - 20	0	58	0	no
6	Hossitl	NDT 3 BWBS	40 - 250	10 - 20	100	58	58	no
6	Hossitl	NDT 3 BWBS	250 - 1000	60 - 80	0	58	0	no
6	Hossitl	NDT 3 BWBS	> 1000	no target	0	58	0	n/a
7	Ootta	NDT 3 BWBS	< 40	10 - 20	0	0	0	n/a
7	Ootta	NDT 3 BWBS	40 - 250	10 - 20	0	0	0	n/a
7	Ootta	NDT 3 BWBS	250 - 1000	60 - 80	0	0	0	n/a

Landscape Unit #	Landscape Unit Name	Natural Disturbance Type	Patch Size Range	Percent Area in Patch Size Target	Current % in Patch Size	Total Area in young patches for the Layer-NDT (ha)	Area in patch size group (ha)	Does Current Conditions Meet Patch Size Target?
7	Ootta	NDT 3 BWBS	> 1000	no target	0	0	0	n/a
8	Dilly	NDT 3 BWBS	< 40	10 - 20	0	0	0	n/a
8	Dilly	NDT 3 BWBS	40 - 250	10 - 20	0	0	0	n/a
8	Dilly	NDT 3 BWBS	250 - 1000	60 - 80	0	0	0	n/a
8	Dilly	NDT 3 BWBS	> 1000	no target	0	0	0	n/a
9	Sahtaneh	NDT 3 BWBS	< 40	10 - 20	49	405	197	no
9	Sahtaneh	NDT 3 BWBS	40 - 250	10 - 20	51	405	208	no
9	Sahtaneh	NDT 3 BWBS	250 - 1000	60 - 80	0	405	0	no
9	Sahtaneh	NDT 3 BWBS	> 1000	no target	0	405	0	n/a
10	Hoffard	NDT 3 BWBS	< 40	10 - 20	75	224	168	no
10	Hoffard	NDT 3 BWBS	40 - 250	10 - 20	25	224	56	no
10	Hoffard	NDT 3 BWBS	250 - 1000	60 - 80	0	224	0	no
10	Hoffard	NDT 3 BWBS	> 1000	no target	0	224	0	n/a
11	Elleh	NDT 3 BWBS	< 40	10 - 20	67	190	127	no
11	Elleh	NDT 3 BWBS	40 - 250	10 - 20	33	190	63	no
11	Elleh	NDT 3 BWBS	250 - 1000	60 - 80	0	190	0	no
11	Elleh	NDT 3 BWBS	> 1000	no target	0	190	0	n/a
12	Eskai	NDT 3 BWBS	< 40	10 - 20	22	1,046	232	no
12	Eskai	NDT 3 BWBS	40 - 250	10 - 20	78	1,046	815	no
12	Eskai	NDT 3 BWBS	250 - 1000	60 - 80	0	1,046	0	no
12	Eskai	NDT 3 BWBS	> 1000	no target	0	1,046	0	n/a
13	Klua	NDT 3 BWBS	< 40	10 - 20	38	474	179	no
13	Klua	NDT 3 BWBS	40 - 250	10 - 20	62	474	295	no
13	Klua	NDT 3 BWBS	250 - 1000	60 - 80	0	474	0	no
13	Klua	NDT 3 BWBS	> 1000	no target	0	474	0	n/a
14	Big_Beaver	NDT 3 BWBS	< 40	10 - 20	27	2,254	612	no
14	Big_Beaver	NDT 3 BWBS	40 - 250	10 - 20	73	2,254	1,642	no
14	Big_Beaver	NDT 3 BWBS	250 - 1000	60 - 80	0	2,254	0	no
14	Big_Beaver	NDT 3 BWBS	> 1000	no target	0	2,254	0	n/a
15	Snake	NDT 3 BWBS	< 40	10 - 20	35	1,326	466	no
15	Snake	NDT 3 BWBS	40 - 250	10 - 20	65	1,326	859	no
15	Snake	NDT 3 BWBS	250 - 1000	60 - 80	0	1,326	0	no

Landscape Unit #	Landscape Unit Name	Natural Disturbance Type	Patch Size Range	Percent Area in Patch Size Target	Current % in Patch Size	Total Area in young patches for the Layer-NDT (ha)	Area in patch size group (ha)	Does Current Conditions Meet Patch Size Target?
15	Snake	NDT 3 BWBS	> 1000	no target	0	1,326	0	n/a
16	Kiwigana	NDT 3 BWBS	< 40	10 - 20	27	1,759	478	no
16	Kiwigana	NDT 3 BWBS	40 - 250	10 - 20	73	1,759	1,281	no
16	Kiwigana	NDT 3 BWBS	250 - 1000	60 - 80	0	1,759	0	no
16	Kiwigana	NDT 3 BWBS	> 1000	no target	0	1,759	0	n/a
17	D_Easum	NDT 3 BWBS	< 40	10 - 20	100	124	124	no
17	D_Easum	NDT 3 BWBS	40 - 250	10 - 20	0	124	0	no
17	D_Easum	NDT 3 BWBS	250 - 1000	60 - 80	0	124	0	no
17	D_Easum	NDT 3 BWBS	> 1000	no target	0	124	0	n/a
18	Sandy	NDT 3 BWBS	< 40	10 - 20	17	873	145	yes
18	Sandy	NDT 3 BWBS	40 - 250	10 - 20	83	873	728	no
18	Sandy	NDT 3 BWBS	250 - 1000	60 - 80	0	873	0	no
18	Sandy	NDT 3 BWBS	> 1000	no target	0	873	0	n/a
19	Capot_Blanc	NDT 3 BWBS	< 40	10 - 20	19	3,421	664	yes
19	Capot_Blanc	NDT 3 BWBS	40 - 250	10 - 20	47	3,421	1,599	no
19	Capot_Blanc	NDT 3 BWBS	250 - 1000	60 - 80	34	3,421	1,158	no
19	Capot_Blanc	NDT 3 BWBS	> 1000	no target	0	3,421	0	n/a
20	Patry	NDT 3 BWBS	< 40	10 - 20	25	4,030	1,024	no
20	Patry	NDT 3 BWBS	40 - 250	10 - 20	65	4,030	2,600	no
20	Patry	NDT 3 BWBS	250 - 1000	60 - 80	10	4,030	405	no
20	Patry	NDT 3 BWBS	> 1000	no target	0	4,030	0	n/a
21	Etane	NDT 3 BWBS	< 40	10 - 20	12	2,117	249	yes
21	Etane	NDT 3 BWBS	40 - 250	10 - 20	88	2,117	1,867	no
21	Etane	NDT 3 BWBS	250 - 1000	60 - 80	0	2,117	0	no
21	Etane	NDT 3 BWBS	> 1000	no target	0	2,117	0	n/a
22	Stanolind	NDT 3 BWBS	< 40	10 - 20	9	7,323	662	no
22	Stanolind	NDT 3 BWBS	40 - 250	10 - 20	37	7,323	2,705	no
22	Stanolind	NDT 3 BWBS	250 - 1000	60 - 80	54	7,323	3,956	no
22	Stanolind	NDT 3 BWBS	> 1000	no target	0	7,323	0	n/a
23	Pouce	NDT 3 BWBS	< 40	10 - 20	24	4,603	1,116	no
23	Pouce	NDT 3 BWBS	40 - 250	10 - 20	65	4,603	2,972	no
23	Pouce	NDT 3 BWBS	250 - 1000	60 - 80	11	4,603	515	no

Landscape Unit #	Landscape Unit Name	Natural Disturbance Type	Patch Size Range	Percent Area in Patch Size Target	Current % in Patch Size	Total Area in young patches for the Layer-NDT (ha)	Area in patch size group (ha)	Does Current Conditions Meet Patch Size Target?
23	Pouce	NDT 3 BWBS	> 1000	no target	0	4,603	0	n/a
24	Akue	NDT 3 BWBS	< 40	10 - 20	29	984	281	no
24	Akue	NDT 3 BWBS	40 - 250	10 - 20	41	984	407	no
24	Akue	NDT 3 BWBS	250 - 1000	60 - 80	30	984	296	no
24	Akue	NDT 3 BWBS	> 1000	no target	0	984	0	n/a
25	Klowee	NDT 3 BWBS	< 40	10 - 20	12	3,950	481	yes
25	Klowee	NDT 3 BWBS	40 - 250	10 - 20	44	3,950	1,735	no
25	Klowee	NDT 3 BWBS	250 - 1000	60 - 80	44	3,950	1,734	no
25	Klowee	NDT 3 BWBS	> 1000	no target	0	3,950	0	n/a
26	Holden	NDT 2 SWB	< 40	30 - 40	71	144	102	no
26	Holden	NDT 2 SWB	40 - 80	30 - 40	29	144	42	no
26	Holden	NDT 2 SWB	80 - 250	20 - 40	0	144	0	no
26	Holden	NDT 2 SWB	> 250	no target	0	144	0	n/a
26	Holden	NDT 3 BWBS	< 40	10 - 20	37	1,190	444	no
26	Holden	NDT 3 BWBS	40 - 250	10 - 20	26	1,190	309	no
26	Holden	NDT 3 BWBS	250 - 1000	60 - 80	37	1,190	437	no
26	Holden	NDT 3 BWBS	> 1000	no target	0	1,190	0	n/a
27	Jackknife	NDT 3 BWBS	< 40	10 - 20	100	22	22	no
27	Jackknife	NDT 3 BWBS	40 - 250	10 - 20	0	22	0	no
27	Jackknife	NDT 3 BWBS	250 - 1000	60 - 80	0	22	0	no
27	Jackknife	NDT 3 BWBS	> 1000	no target	0	22	0	n/a
28	Minaker	NDT 2 SWB	< 40	30 - 40	0	0	0	n/a
28	Minaker	NDT 2 SWB	40 - 80	30 - 40	0	0	0	n/a
28	Minaker	NDT 2 SWB	80 - 250	20 - 40	0	0	0	n/a
28	Minaker	NDT 2 SWB	> 250	no target	0	0	0	n/a
28	Minaker	NDT 3 BWBS	< 40	10 - 20	100	25	25	no
28	Minaker	NDT 3 BWBS	40 - 250	10 - 20	0	25	0	no
28	Minaker	NDT 3 BWBS	250 - 1000	60 - 80	0	25	0	no
28	Minaker	NDT 3 BWBS	> 1000	no target	0	25	0	n/a
29	Richards	NDT 2 SWB	< 40	30 - 40	100	4	4	no
29	Richards	NDT 2 SWB	40 - 80	30 - 40	0	4	0	no
29	Richards	NDT 2 SWB	80 - 250	20 - 40	0	4	0	no

Landscape Unit #	Landscape Unit Name	Natural Disturbance Type	Patch Size Range	Percent Area in Patch Size Target	Current % in Patch Size	Total Area in young patches for the Layer- NDT (ha)	Area in patch size group (ha)	Does Current Conditions Meet Patch Size Target?
29	Richards	NDT 2 SWB	> 250	no target	0	4	0	n/a
29	Richards	NDT 3 BWBS	< 40	10 - 20	100	4	4	no
29	Richards	NDT 3 BWBS	40 - 250	10 - 20	0	4	0	no
29	Richards	NDT 3 BWBS	250 - 1000	60 - 80	0	4	0	no
29	Richards	NDT 3 BWBS	> 1000	no target	0	4	0	n/a
30	Hewer	NDT 2 SWB	< 40	30 - 40	0	0	0	n/a
30	Hewer	NDT 2 SWB	40 - 80	30 - 40	0	0	0	n/a
30	Hewer	NDT 2 SWB	80 - 250	20 - 40	0	0	0	n/a
30	Hewer	NDT 2 SWB	> 250	no target	0	0	0	n/a
30	Hewer	NDT 3 BWBS	< 40	10 - 20	0	49	0	no
30	Hewer	NDT 3 BWBS	40 - 250	10 - 20	100	49	49	no
30	Hewer	NDT 3 BWBS	250 - 1000	60 - 80	0	49	0	no
30	Hewer	NDT 3 BWBS	> 1000	no target	0	49	0	n/a
31	Bunch	NDT 2 SWB	< 40	30 - 40	3	84	2	no
31	Bunch	NDT 2 SWB	40 - 80	30 - 40	0	84	0	no
31	Bunch	NDT 2 SWB	80 - 250	20 - 40	97	84	82	no
31	Bunch	NDT 2 SWB	> 250	no target	0	84	0	n/a
31	Bunch	NDT 3 BWBS	< 40	10 - 20	100	50	50	no
31	Bunch	NDT 3 BWBS	40 - 250	10 - 20	0	50	0	no
31	Bunch	NDT 3 BWBS	250 - 1000	60 - 80	0	50	0	no
31	Bunch	NDT 3 BWBS	> 1000	no target	0	50	0	n/a
32	Gammer	NDT 2 SWB	< 40	30 - 40	100	9	9	no
32	Gammer	NDT 2 SWB	40 - 80	30 - 40	0	9	0	no
32	Gammer	NDT 2 SWB	80 - 250	20 - 40	0	9	0	no
32	Gammer	NDT 2 SWB	> 250	no target	0	9	0	n/a
32	Gammer	NDT 3 BWBS	< 40	10 - 20	53	88	47	no
32	Gammer	NDT 3 BWBS	40 - 250	10 - 20	47	88	41	no
32	Gammer	NDT 3 BWBS	250 - 1000	60 - 80	0	88	0	no
32	Gammer	NDT 3 BWBS	> 1000	no target	0	88	0	n/a
33	Falk	NDT 2 SWB	< 40	30 - 40	3	2,159	74	no
33	Falk	NDT 2 SWB	40 - 80	30 - 40	12	2,159	259	no
33	Falk	NDT 2 SWB	80 - 250	20 - 40	19	2,159	407	no

Landscape Unit #	Landscape Unit Name	Natural Disturbance Type	Patch Size Range	Percent Area in Patch Size Target	Current % in Patch Size	Total Area in young patches for the Layer-NDT (ha)	Area in patch size group (ha)	Does Current Conditions Meet Patch Size Target?
33	Falk	NDT 2 SWB	> 250	no target	66	2,159	1,419	n/a
33	Falk	NDT 3 BWBS	< 40	10 - 20	23	826	193	no
33	Falk	NDT 3 BWBS	40 - 250	10 - 20	77	826	633	no
33	Falk	NDT 3 BWBS	250 - 1000	60 - 80	0	826	0	no
33	Falk	NDT 3 BWBS	> 1000	no target	0	826	0	n/a
34	Kledo	NDT 2 SWB	< 40	30 - 40	0	0	0	n/a
34	Kledo	NDT 2 SWB	40 - 80	30 - 40	0	0	0	n/a
34	Kledo	NDT 2 SWB	80 - 250	20 - 40	0	0	0	n/a
34	Kledo	NDT 2 SWB	> 250	no target	0	0	0	n/a
34	Kledo	NDT 3 BWBS	< 40	10 - 20	16	1,312	205	yes
34	Kledo	NDT 3 BWBS	40 - 250	10 - 20	84	1,312	1,107	no
34	Kledo	NDT 3 BWBS	250 - 1000	60 - 80	0	1,312	0	no
34	Kledo	NDT 3 BWBS	> 1000	no target	0	1,312	0	n/a
35	Dunedin	NDT 2 SWB	< 40	30 - 40	100	2	2	no
35	Dunedin	NDT 2 SWB	40 - 80	30 - 40	0	2	0	no
35	Dunedin	NDT 2 SWB	80 - 250	20 - 40	0	2	0	no
35	Dunedin	NDT 2 SWB	> 250	no target	0	2	0	n/a
35	Dunedin	NDT 3 BWBS	< 40	10 - 20	100	26	26	no
35	Dunedin	NDT 3 BWBS	40 - 250	10 - 20	0	26	0	no
35	Dunedin	NDT 3 BWBS	250 - 1000	60 - 80	0	26	0	no
35	Dunedin	NDT 3 BWBS	> 1000	no target	0	26	0	n/a
36	Irene_E	NDT 3 BWBS	< 40	10 - 20	3	49	2	no
36	Irene_E	NDT 3 BWBS	40 - 250	10 - 20	97	49	47	no
36	Irene_E	NDT 3 BWBS	250 - 1000	60 - 80	0	49	0	no
36	Irene_E	NDT 3 BWBS	> 1000	no target	0	49	0	n/a
36	Irene_W	NDT 3 BWBS	< 40	10 - 20	0	164	0	no
36	Irene_W	NDT 3 BWBS	40 - 250	10 - 20	100	164	164	no
36	Irene_W	NDT 3 BWBS	250 - 1000	60 - 80	0	164	0	no
36	Irene_W	NDT 3 BWBS	> 1000	no target	0	164	0	n/a
37	Catkin	NDT 3 BWBS	< 40	10 - 20	0	735	0	no
37	Catkin	NDT 3 BWBS	40 - 250	10 - 20	0	735	0	no
37	Catkin	NDT 3 BWBS	250 - 1000	60 - 80	100	735	735	no

Landscape Unit #	Landscape Unit Name	Natural Disturbance Type	Patch Size Range	Percent Area in Patch Size Target	Current % in Patch Size	Total Area in young patches for the Layer-NDT (ha)	Area in patch size group (ha)	Does Current Conditions Meet Patch Size Target?
37	Catkin	NDT 3 BWBS	> 1000	no target	0	735	0	n/a
38	La_Biche	NDT 3 BWBS	< 40	10 - 20	8	17,597	1,427	no
38	La_Biche	NDT 3 BWBS	40 - 250	10 - 20	29	17,597	5,047	no
38	La_Biche	NDT 3 BWBS	250 - 1000	60 - 80	9	17,597	1,601	no
38	La_Biche	NDT 3 BWBS	> 1000	no target	54	17,597	9,522	n/a
39	Crow	NDT 2 SWB	< 40	30 - 40	0	0	0	n/a
39	Crow	NDT 2 SWB	40 - 80	30 - 40	0	0	0	n/a
39	Crow	NDT 2 SWB	80 - 250	20 - 40	0	0	0	n/a
39	Crow	NDT 2 SWB	> 250	no target	0	0	0	n/a
39	Crow	NDT 3 BWBS	< 40	10 - 20	19	1,046	198	yes
39	Crow	NDT 3 BWBS	40 - 250	10 - 20	56	1,046	589	no
39	Crow	NDT 3 BWBS	250 - 1000	60 - 80	25	1,046	260	no
39	Crow	NDT 3 BWBS	> 1000	no target	0	1,046	0	n/a
40	Scatter	NDT 2 SWB	< 40	30 - 40	0	0	0	n/a
40	Scatter	NDT 2 SWB	40 - 80	30 - 40	0	0	0	n/a
40	Scatter	NDT 2 SWB	80 - 250	20 - 40	0	0	0	n/a
40	Scatter	NDT 2 SWB	> 250	no target	0	0	0	n/a
40	Scatter	NDT 3 BWBS	< 40	10 - 20	0	0	0	n/a
40	Scatter	NDT 3 BWBS	40 - 250	10 - 20	0	0	0	n/a
40	Scatter	NDT 3 BWBS	250 - 1000	60 - 80	0	0	0	n/a
40	Scatter	NDT 3 BWBS	> 1000	no target	0	0	0	n/a
41	Graybank	NDT 2 SWB	< 40	30 - 40	0	0	0	n/a
41	Graybank	NDT 2 SWB	40 - 80	30 - 40	0	0	0	n/a
41	Graybank	NDT 2 SWB	80 - 250	20 - 40	0	0	0	n/a
41	Graybank	NDT 2 SWB	> 250	no target	0	0	0	n/a
41	Graybank	NDT 3 BWBS	< 40	10 - 20	0	1,815	8	no
41	Graybank	NDT 3 BWBS	40 - 250	10 - 20	11	1,815	200	yes
41	Graybank	NDT 3 BWBS	250 - 1000	60 - 80	0	1,815	0	no
41	Graybank	NDT 3 BWBS	> 1000	no target	89	1,815	1,607	n/a
42	Crusty	NDT 2 SWB	< 40	30 - 40	100	19	19	no
42	Crusty	NDT 2 SWB	40 - 80	30 - 40	0	19	0	no
42	Crusty	NDT 2 SWB	80 - 250	20 - 40	0	19	0	no

Landscape Unit #	Landscape Unit Name	Natural Disturbance Type	Patch Size Range	Percent Area in Patch Size Target	Current % in Patch Size	Total Area in young patches for the Layer-NDT (ha)	Area in patch size group (ha)	Does Current Conditions Meet Patch Size Target?
42	Crusty	NDT 2 SWB	> 250	no target	0	19	0	n/a
42	Crusty	NDT 3 BWBS	< 40	10 - 20	1	529	5	no
42	Crusty	NDT 3 BWBS	40 - 250	10 - 20	23	529	121	no
42	Crusty	NDT 3 BWBS	250 - 1000	60 - 80	76	529	403	yes
42	Crusty	NDT 3 BWBS	> 1000	no target	0	529	0	n/a
43	Ram	NDT 2 SWB	< 40	30 - 40	0	0	0	n/a
43	Ram	NDT 2 SWB	40 - 80	30 - 40	0	0	0	n/a
43	Ram	NDT 2 SWB	80 - 250	20 - 40	0	0	0	n/a
43	Ram	NDT 2 SWB	> 250	no target	0	0	0	n/a
43	Ram	NDT 3 BWBS	< 40	10 - 20	0	53	0	no
43	Ram	NDT 3 BWBS	40 - 250	10 - 20	100	53	53	no
43	Ram	NDT 3 BWBS	250 - 1000	60 - 80	0	53	0	no
43	Ram	NDT 3 BWBS	> 1000	no target	0	53	0	n/a
44	Tetsa	NDT 2 SWB	< 40	30 - 40	100	47	47	no
44	Tetsa	NDT 2 SWB	40 - 80	30 - 40	0	47	0	no
44	Tetsa	NDT 2 SWB	80 - 250	20 - 40	0	47	0	no
44	Tetsa	NDT 2 SWB	> 250	no target	0	47	0	n/a
44	Tetsa	NDT 3 BWBS	< 40	10 - 20	0	0	0	n/a
44	Tetsa	NDT 3 BWBS	40 - 250	10 - 20	0	0	0	n/a
44	Tetsa	NDT 3 BWBS	250 - 1000	60 - 80	0	0	0	n/a
44	Tetsa	NDT 3 BWBS	> 1000	no target	0	0	0	n/a
45	Tuchodi	NDT 2 SWB	< 40	30 - 40	5	3,199	161	no
45	Tuchodi	NDT 2 SWB	40 - 80	30 - 40	3	3,199	91	no
45	Tuchodi	NDT 2 SWB	80 - 250	20 - 40	10	3,199	331	no
45	Tuchodi	NDT 2 SWB	> 250	no target	82	3,199	2,615	n/a
45	Tuchodi	NDT 3 BWBS	< 40	10 - 20	19	420	79	yes
45	Tuchodi	NDT 3 BWBS	40 - 250	10 - 20	19	420	79	yes
45	Tuchodi	NDT 3 BWBS	250 - 1000	60 - 80	63	420	262	yes
45	Tuchodi	NDT 3 BWBS	> 1000	no target	0	420	0	n/a
46	Gathto	NDT 2 SWB	< 40	30 - 40	48	136	65	no
46	Gathto	NDT 2 SWB	40 - 80	30 - 40	53	136	71	no
46	Gathto	NDT 2 SWB	80 - 250	20 - 40	0	136	0	no



Landscape Unit #	Landscape Unit Name	Natural Disturbance Type	Patch Size Range	Percent Area in Patch Size Target	Current % in Patch Size	Total Area in young patches for the Layer-NDT (ha)	Area in patch size group (ha)	Does Current Conditions Meet Patch Size Target?
46	Gathto	NDT 2 SWB	> 250	no target	0	136	0	n/a
46	Gathto	NDT 3 BWBS	< 40	10 - 20	100	13	13	no
46	Gathto	NDT 3 BWBS	40 - 250	10 - 20	0	13	0	no
46	Gathto	NDT 3 BWBS	250 - 1000	60 - 80	0	13	0	no
46	Gathto	NDT 3 BWBS	> 1000	no target	0	13	0	n/a
47	Crehan	NDT 2 SWB	< 40	30 - 40	1	394	4	no
47	Crehan	NDT 2 SWB	40 - 80	30 - 40	24	394	96	no
47	Crehan	NDT 2 SWB	80 - 250	20 - 40	75	394	294	no
47	Crehan	NDT 2 SWB	> 250	no target	0	394	0	n/a
47	Crehan	NDT 3 BWBS	< 40	10 - 20	6	557	35	no
47	Crehan	NDT 3 BWBS	40 - 250	10 - 20	34	557	187	no
47	Crehan	NDT 3 BWBS	250 - 1000	60 - 80	60	557	336	yes
47	Crehan	NDT 3 BWBS	> 1000	no target	0	557	0	n/a
48	Racing	NDT 2 SWB	< 40	30 - 40	8	1,017	79	no
48	Racing	NDT 2 SWB	40 - 80	30 - 40	6	1,017	64	no
48	Racing	NDT 2 SWB	80 - 250	20 - 40	0	1,017	0	no
48	Racing	NDT 2 SWB	> 250	no target	86	1,017	873	n/a
49	MacDonald	NDT 2 SWB	< 40	30 - 40	100	11	11	no
49	MacDonald	NDT 2 SWB	40 - 80	30 - 40	0	11	0	no
49	MacDonald	NDT 2 SWB	80 - 250	20 - 40	0	11	0	no
49	MacDonald	NDT 2 SWB	> 250	no target	0	11	0	n/a
49	MacDonald	NDT 3 BWBS	< 40	10 - 20	0	0	0	n/a
49	MacDonald	NDT 3 BWBS	40 - 250	10 - 20	0	0	0	n/a
49	MacDonald	NDT 3 BWBS	250 - 1000	60 - 80	0	0	0	n/a
49	MacDonald	NDT 3 BWBS	> 1000	no target	0	0	0	n/a
50	Tentsi	NDT 2 SWB	< 40	30 - 40	2	289	5	no
50	Tentsi	NDT 2 SWB	40 - 80	30 - 40	0	289	0	no
50	Tentsi	NDT 2 SWB	80 - 250	20 - 40	0	289	0	no
50	Tentsi	NDT 2 SWB	> 250	no target	98	289	284	n/a
50	Tentsi	NDT 3 BWBS	< 40	10 - 20	10	75	7	no
50	Tentsi	NDT 3 BWBS	40 - 250	10 - 20	91	75	68	no
50	Tentsi	NDT 3 BWBS	250 - 1000	60 - 80	0	75	0	no

Landscape Unit #	Landscape Unit Name	Natural Disturbance Type	Patch Size Range	Percent Area in Patch Size Target	Current % in Patch Size	Total Area in young patches for the Layer- NDT (ha)	Area in patch size group (ha)	Does Current Conditions Meet Patch Size Target?
50	Tentsi	NDT 3 BWBS	> 1000	no target	0	75	0	n/a
51	Moose	NDT 2 SWB	< 40	30 - 40	0	0	0	n/a
51	Moose	NDT 2 SWB	40 - 80	30 - 40	0	0	0	n/a
51	Moose	NDT 2 SWB	80 - 250	20 - 40	0	0	0	n/a
51	Moose	NDT 2 SWB	> 250	no target	0	0	0	n/a
52	Otelsas	NDT 2 SWB	< 40	30 - 40	0	365	0	no
52	Otelsas	NDT 2 SWB	40 - 80	30 - 40	0	365	0	no
52	Otelsas	NDT 2 SWB	80 - 250	20 - 40	0	365	0	no
52	Otelsas	NDT 2 SWB	> 250	no target	100	365	365	n/a
52	Otelsas	NDT 3 BWBS	< 40	10 - 20	0	0	0	n/a
52	Otelsas	NDT 3 BWBS	40 - 250	10 - 20	0	0	0	n/a
52	Otelsas	NDT 3 BWBS	250 - 1000	60 - 80	0	0	0	n/a
52	Otelsas	NDT 3 BWBS	> 1000	no target	0	0	0	n/a
53	Muncho	NDT 2 SWB	< 40	30 - 40	100	6	6	no
53	Muncho	NDT 2 SWB	40 - 80	30 - 40	0	6	0	no
53	Muncho	NDT 2 SWB	80 - 250	20 - 40	0	6	0	no
53	Muncho	NDT 2 SWB	> 250	no target	0	6	0	n/a
53	Muncho	NDT 3 BWBS	< 40	10 - 20	100	29	29	no
53	Muncho	NDT 3 BWBS	40 - 250	10 - 20	0	29	0	no
53	Muncho	NDT 3 BWBS	250 - 1000	60 - 80	0	29	0	no
53	Muncho	NDT 3 BWBS	> 1000	no target	0	29	0	n/a
54	Eight_Mile	NDT 2 SWB	< 40	30 - 40	56	205	115	no
54	Eight_Mile	NDT 2 SWB	40 - 80	30 - 40	0	205	0	no
54	Eight_Mile	NDT 2 SWB	80 - 250	20 - 40	44	205	89	no
54	Eight_Mile	NDT 2 SWB	> 250	no target	0	205	0	n/a
54	Eight_Mile	NDT 3 BWBS	< 40	10 - 20	5	928	45	no
54	Eight_Mile	NDT 3 BWBS	40 - 250	10 - 20	12	928	115	yes
54	Eight_Mile	NDT 3 BWBS	250 - 1000	60 - 80	83	928	767	no
54	Eight_Mile	NDT 3 BWBS	> 1000	no target	0	928	0	n/a
55	Sulpher	NDT 2 SWB	< 40	30 - 40	0	0	0	n/a
55	Sulpher	NDT 2 SWB	40 - 80	30 - 40	0	0	0	n/a
55	Sulpher	NDT 2 SWB	80 - 250	20 - 40	0	0	0	n/a

Landscape Unit #	Landscape Unit Name	Natural Disturbance Type	Patch Size Range	Percent Area in Patch Size Target	Current % in Patch Size	Total Area in young patches for the Layer-NDT (ha)	Area in patch size group (ha)	Does Current Conditions Meet Patch Size Target?
55	Sulpher	NDT 2 SWB	> 250	no target	0	0	0	n/a
55	Sulpher	NDT 3 BWBS	< 40	10 - 20	6	579	36	no
55	Sulpher	NDT 3 BWBS	40 - 250	10 - 20	94	579	542	no
55	Sulpher	NDT 3 BWBS	250 - 1000	60 - 80	0	579	0	no
55	Sulpher	NDT 3 BWBS	> 1000	no target	0	579	0	n/a
56	Moule	NDT 2 SWB	< 40	30 - 40	0	0	0	n/a
56	Moule	NDT 2 SWB	40 - 80	30 - 40	0	0	0	n/a
56	Moule	NDT 2 SWB	80 - 250	20 - 40	0	0	0	n/a
56	Moule	NDT 2 SWB	> 250	no target	0	0	0	n/a
56	Moule	NDT 3 BWBS	< 40	10 - 20	5	2,765	129	no
56	Moule	NDT 3 BWBS	40 - 250	10 - 20	11	2,765	290	yes
56	Moule	NDT 3 BWBS	250 - 1000	60 - 80	43	2,765	1,187	no
56	Moule	NDT 3 BWBS	> 1000	no target	42	2,765	1,159	n/a
57	Grayling	NDT 2 SWB	< 40	30 - 40	15	284	43	no
57	Grayling	NDT 2 SWB	40 - 80	30 - 40	85	284	241	no
57	Grayling	NDT 2 SWB	80 - 250	20 - 40	0	284	0	no
57	Grayling	NDT 2 SWB	> 250	no target	0	284	0	n/a
57	Grayling	NDT 3 BWBS	< 40	10 - 20	40	93	38	no
57	Grayling	NDT 3 BWBS	40 - 250	10 - 20	60	93	56	no
57	Grayling	NDT 3 BWBS	250 - 1000	60 - 80	0	93	0	no
57	Grayling	NDT 3 BWBS	> 1000	no target	0	93	0	n/a
58	Redpott	NDT 2 SWB	< 40	30 - 40	0	0	0	n/a
58	Redpott	NDT 2 SWB	40 - 80	30 - 40	0	0	0	n/a
58	Redpott	NDT 2 SWB	80 - 250	20 - 40	0	0	0	n/a
58	Redpott	NDT 2 SWB	> 250	no target	0	0	0	n/a
58	Redpott	NDT 3 BWBS	< 40	10 - 20	0	0	0	n/a
58	Redpott	NDT 3 BWBS	40 - 250	10 - 20	0	0	0	n/a
58	Redpott	NDT 3 BWBS	250 - 1000	60 - 80	0	0	0	n/a
58	Redpott	NDT 3 BWBS	> 1000	no target	0	0	0	n/a
59	Smith	NDT 2 SWB	< 40	30 - 40	10	1,829	178	no
59	Smith	NDT 2 SWB	40 - 80	30 - 40	17	1,829	304	no
59	Smith	NDT 2 SWB	80 - 250	20 - 40	31	1,829	572	yes

Landscape Unit #	Landscape Unit Name	Natural Disturbance Type	Patch Size Range	Percent Area in Patch Size Target	Current % in Patch Size	Total Area in young patches for the Layer-NDT (ha)	Area in patch size group (ha)	Does Current Conditions Meet Patch Size Target?
59	Smith	NDT 2 SWB	> 250	no target	42	1,829	775	n/a
59	Smith	NDT 3 BWBS	< 40	10 - 20	1	28,830	220	no
59	Smith	NDT 3 BWBS	40 - 250	10 - 20	5	28,830	1,500	no
59	Smith	NDT 3 BWBS	250 - 1000	60 - 80	5	28,830	1,351	no
59	Smith	NDT 3 BWBS	> 1000	no target	89	28,830	25,759	n/a
60	Liard_Hot_Springs	NDT 2 SWB	< 40	30 - 40	7	1,239	83	no
60	Liard_Hot_Springs	NDT 2 SWB	40 - 80	30 - 40	5	1,239	65	no
60	Liard_Hot_Springs	NDT 2 SWB	80 - 250	20 - 40	0	1,239	0	no
60	Liard_Hot_Springs	NDT 2 SWB	> 250	no target	88	1,239	1,091	n/a
60	Liard_Hot_Springs	NDT 3 BWBS	< 40	10 - 20	4	1,743	60	no
60	Liard_Hot_Springs	NDT 3 BWBS	40 - 250	10 - 20	46	1,743	805	no
60	Liard_Hot_Springs	NDT 3 BWBS	250 - 1000	60 - 80	50	1,743	878	no
60	Liard_Hot_Springs	NDT 3 BWBS	> 1000	no target	0	1,743	0	n/a
61	Forcier	NDT 2 SWB	< 40	30 - 40	100	2	2	no
61	Forcier	NDT 2 SWB	40 - 80	30 - 40	0	2	0	no
61	Forcier	NDT 2 SWB	80 - 250	20 - 40	0	2	0	no
61	Forcier	NDT 2 SWB	> 250	no target	0	2	0	n/a
61	Forcier	NDT 3 BWBS	< 40	10 - 20	12	94	11	yes
61	Forcier	NDT 3 BWBS	40 - 250	10 - 20	88	94	83	no
61	Forcier	NDT 3 BWBS	250 - 1000	60 - 80	0	94	0	no
61	Forcier	NDT 3 BWBS	> 1000	no target	0	94	0	n/a
62	Vents	NDT 2 SWB	< 40	30 - 40	0	0	0	n/a
62	Vents	NDT 2 SWB	40 - 80	30 - 40	0	0	0	n/a
62	Vents	NDT 2 SWB	80 - 250	20 - 40	0	0	0	n/a
62	Vents	NDT 2 SWB	> 250	no target	0	0	0	n/a
62	Vents	NDT 3 BWBS	< 40	10 - 20	0	84	0	no
62	Vents	NDT 3 BWBS	40 - 250	10 - 20	100	84	84	no
62	Vents	NDT 3 BWBS	250 - 1000	60 - 80	0	84	0	no
62	Vents	NDT 3 BWBS	> 1000	no target	0	84	0	n/a
63	Liard_River_A	NDT 2 SWB	< 40	30 - 40	3	2,214	65	no
63	Liard_River_A	NDT 2 SWB	40 - 80	30 - 40	2	2,214	43	no
63	Liard_River_A	NDT 2 SWB	80 - 250	20 - 40	0	2,214	0	no

Landscape Unit #	Landscape Unit Name	Natural Disturbance Type	Patch Size Range	Percent Area in Patch Size Target	Current % in Patch Size	Total Area in young patches for the Layer-NDT (ha)	Area in patch size group (ha)	Does Current Conditions Meet Patch Size Target?
63	Liard_River_A	NDT 2 SWB	> 250	no target	95	2,214	2,105	n/a
63	Liard_River_A	NDT 3 BWBS Alluvial	< 20	30 - 50	0	61,838	129	no
63	Liard_River_A	NDT 3 BWBS Alluvial	20 - 40	30 - 50	0	61,838	233	no
63	Liard_River_A	NDT 3 BWBS Alluvial	40 - 80	10 - 30	1	61,838	525	no
63	Liard_River_A	NDT 3 BWBS Alluvial	> 80	no target	99	61,838	60,951	n/a
64	Liard_River_B	NDT 3 BWBS Alluvial	< 20	30 - 50	28	225	63	no
64	Liard_River_B	NDT 3 BWBS Alluvial	20 - 40	30 - 50	40	225	89	yes
64	Liard_River_B	NDT 3 BWBS Alluvial	40 - 80	10 - 30	32	225	73	no
64	Liard_River_B	NDT 3 BWBS Alluvial	> 80	no target	0	225	0	n/a
65	Liard_River_C	NDT 3 BWBS Alluvial	< 20	30 - 50	4	7,199	255	no
65	Liard_River_C	NDT 3 BWBS Alluvial	20 - 40	30 - 50	8	7,199	580	no
65	Liard_River_C	NDT 3 BWBS Alluvial	40 - 80	10 - 30	12	7,199	825	yes
65	Liard_River_C	NDT 3 BWBS Alluvial	> 80	no target	77	7,199	5,540	n/a
66	Fort_Nelson_River_B	NDT 3 BWBS Alluvial	< 20	30 - 50	7	4,637	315	no
66	Fort_Nelson_River_B	NDT 3 BWBS Alluvial	20 - 40	30 - 50	5	4,637	233	no
66	Fort_Nelson_River_B	NDT 3 BWBS Alluvial	40 - 80	10 - 30	15	4,637	676	yes
66	Fort_Nelson_River_B	NDT 3 BWBS Alluvial	> 80	no target	74	4,637	3,413	n/a
67	Fort_Nelson_River_A	NDT 3 BWBS Alluvial	< 20	30 - 50	16	1,328	216	no
67	Fort_Nelson_River_A	NDT 3 BWBS Alluvial	20 - 40	30 - 50	37	1,328	489	yes
67	Fort_Nelson_River_A	NDT 3 BWBS Alluvial	40 - 80	10 - 30	27	1,328	363	yes
67	Fort_Nelson_River_A	NDT 3 BWBS Alluvial	> 80	no target	20	1,328	261	n/a
68	Muskwa_River_B	NDT 3 BWBS Alluvial	< 20	30 - 50	13	2,751	356	no
68	Muskwa_River_B	NDT 3 BWBS Alluvial	20 - 40	30 - 50	12	2,751	328	no
68	Muskwa_River_B	NDT 3 BWBS Alluvial	40 - 80	10 - 30	14	2,751	389	yes
68	Muskwa_River_B	NDT 3 BWBS Alluvial	> 80	no target	61	2,751	1,677	n/a
69	Prophet_River	NDT 3 BWBS Alluvial	< 20	30 - 50	17	2,701	464	no
69	Prophet_River	NDT 3 BWBS Alluvial	20 - 40	30 - 50	14	2,701	385	no
69	Prophet_River	NDT 3 BWBS Alluvial	40 - 80	10 - 30	32	2,701	860	no
69	Prophet_River	NDT 3 BWBS Alluvial	> 80	no target	37	2,701	992	n/a
70	Muskwa_River_A	NDT 2 SWB	< 40	30 - 40	0	0	0	n/a
70	Muskwa_River_A	NDT 2 SWB	40 - 80	30 - 40	0	0	0	n/a
70	Muskwa_River_A	NDT 2 SWB	80 - 250	20 - 40	0	0	0	n/a

Landscape Unit #	Landscape Unit Name	Natural Disturbance Type	Patch Size Range	Percent Area in Patch Size Target	Current % in Patch Size	Total Area in young patches for the Layer- NDT (ha)	Area in patch size group (ha)	Does Current Conditions Meet Patch Size Target?
70	Muskwa_River_A	NDT 2 SWB	> 250	no target	0	0	0	n/a
70	Muskwa_River_A	NDT 3 BWBS Alluvial	< 20	30 - 50	79	116	92	no
70	Muskwa_River_A	NDT 3 BWBS Alluvial	20 - 40	30 - 50	21	116	24	no
70	Muskwa_River_A	NDT 3 BWBS Alluvial	40 - 80	10 - 30	0	116	0	no
70	Muskwa_River_A	NDT 3 BWBS Alluvial	> 80	no target	0	116	0	n/a
71	Hay_River	NDT 3 BWBS Alluvial	< 20	30 - 50	43	378	163	yes
71	Hay_River	NDT 3 BWBS Alluvial	20 - 40	30 - 50	33	378	124	yes
71	Hay_River	NDT 3 BWBS Alluvial	40 - 80	10 - 30	0	378	0	no
71	Hay_River	NDT 3 BWBS Alluvial	> 80	no target	24	378	91	n/a
72	Petitot_River	NDT 3 BWBS Alluvial	< 20	30 - 50	0	36	0	no
72	Petitot_River	NDT 3 BWBS Alluvial	20 - 40	30 - 50	100	36	36	no
72	Petitot_River	NDT 3 BWBS Alluvial	40 - 80	10 - 30	0	36	0	no
72	Petitot_River	NDT 3 BWBS Alluvial	> 80	no target	0	36	0	n/a
73	Kechika_River	NDT 2 SWB	< 40	30 - 40	100	15	15	no
73	Kechika_River	NDT 2 SWB	40 - 80	30 - 40	0	15	0	no
73	Kechika_River	NDT 2 SWB	80 - 250	20 - 40	0	15	0	no
73	Kechika_River	NDT 2 SWB	> 250	no target	0	15	0	n/a
73	Kechika_River	NDT 3 BWBS Alluvial	< 20	30 - 50	2	3,093	67	no
73	Kechika_River	NDT 3 BWBS Alluvial	20 - 40	30 - 50	3	3,093	97	no
73	Kechika_River	NDT 3 BWBS Alluvial	40 - 80	10 - 30	7	3,093	208	no
73	Kechika_River	NDT 3 BWBS Alluvial	> 80	no target	88	3,093	2,721	n/a
74	Coal	NDT 2 SWB	< 40	30 - 40	3	725	18	no
74	Coal	NDT 2 SWB	40 - 80	30 - 40	6	725	43	no
74	Coal	NDT 2 SWB	80 - 250	20 - 40	92	725	663	no
74	Coal	NDT 2 SWB	> 250	no target	0	725	0	n/a
74	Coal	NDT 3 BWBS	< 40	10 - 20	1	13,659	119	no
74	Coal	NDT 3 BWBS	40 - 250	10 - 20	2	13,659	279	no
74	Coal	NDT 3 BWBS	250 - 1000	60 - 80	3	13,659	339	no
74	Coal	NDT 3 BWBS	> 1000	no target	95	13,659	12,922	n/a
75	Kitza	NDT 2 SWB	< 40	30 - 40	8	375	29	no
75	Kitza	NDT 2 SWB	40 - 80	30 - 40	0	375	0	no
75	Kitza	NDT 2 SWB	80 - 250	20 - 40	0	375	0	no

Landscape Unit #	Landscape Unit Name	Natural Disturbance Type	Patch Size Range	Percent Area in Patch Size Target	Current % in Patch Size	Total Area in young patches for the Layer-NDT (ha)	Area in patch size group (ha)	Does Current Conditions Meet Patch Size Target?
75	Kitza	NDT 2 SWB	> 250	no target	92	375	347	n/a
75	Kitza	NDT 3 BWBS	< 40	10 - 20	1	6,394	66	no
75	Kitza	NDT 3 BWBS	40 - 250	10 - 20	1	6,394	86	no
75	Kitza	NDT 3 BWBS	250 - 1000	60 - 80	12	6,394	769	no
75	Kitza	NDT 3 BWBS	> 1000	no target	86	6,394	5,472	n/a
76	Gemini	NDT 2 SWB	< 40	30 - 40	0	0	0	n/a
76	Gemini	NDT 2 SWB	40 - 80	30 - 40	0	0	0	n/a
76	Gemini	NDT 2 SWB	80 - 250	20 - 40	0	0	0	n/a
76	Gemini	NDT 2 SWB	> 250	no target	0	0	0	n/a
76	Gemini	NDT 3 BWBS	< 40	10 - 20	5	1,454	68	no
76	Gemini	NDT 3 BWBS	40 - 250	10 - 20	0	1,454	0	no
76	Gemini	NDT 3 BWBS	250 - 1000	60 - 80	0	1,454	0	no
76	Gemini	NDT 3 BWBS	> 1000	no target	95	1,454	1,386	n/a
77	Rabbit	NDT 2 SWB	< 40	30 - 40	5	1,773	81	no
77	Rabbit	NDT 2 SWB	40 - 80	30 - 40	0	1,773	0	no
77	Rabbit	NDT 2 SWB	80 - 250	20 - 40	12	1,773	212	no
77	Rabbit	NDT 2 SWB	> 250	no target	84	1,773	1,480	n/a
77	Rabbit	NDT 3 BWBS	< 40	10 - 20	1	8,058	55	no
77	Rabbit	NDT 3 BWBS	40 - 250	10 - 20	8	8,058	650	no
77	Rabbit	NDT 3 BWBS	250 - 1000	60 - 80	5	8,058	405	no
77	Rabbit	NDT 3 BWBS	> 1000	no target	86	8,058	6,949	n/a
78	Chee	NDT 2 SWB	< 40	30 - 40	4	2,869	103	no
78	Chee	NDT 2 SWB	40 - 80	30 - 40	2	2,869	57	no
78	Chee	NDT 2 SWB	80 - 250	20 - 40	3	2,869	81	no
78	Chee	NDT 2 SWB	> 250	no target	92	2,869	2,627	n/a
78	Chee	NDT 3 BWBS	< 40	10 - 20	0	309	0	no
78	Chee	NDT 3 BWBS	40 - 250	10 - 20	100	309	309	no
78	Chee	NDT 3 BWBS	250 - 1000	60 - 80	0	309	0	no
78	Chee	NDT 3 BWBS	> 1000	no target	0	309	0	n/a
79	Gundahoo	NDT 2 SWB	< 40	30 - 40	0	0	0	n/a
79	Gundahoo	NDT 2 SWB	40 - 80	30 - 40	0	0	0	n/a
79	Gundahoo	NDT 2 SWB	80 - 250	20 - 40	0	0	0	n/a

Landscape Unit #	Landscape Unit Name	Natural Disturbance Type	Patch Size Range	Percent Area in Patch Size Target	Current % in Patch Size	Total Area in young patches for the Layer-NDT (ha)	Area in patch size group (ha)	Does Current Conditions Meet Patch Size Target?
79	Gundahoo	NDT 2 SWB	> 250	no target	0	0	0	n/a
79	Gundahoo	NDT 3 BWBS	< 40	10 - 20	0	0	0	n/a
79	Gundahoo	NDT 3 BWBS	40 - 250	10 - 20	0	0	0	n/a
79	Gundahoo	NDT 3 BWBS	250 - 1000	60 - 80	0	0	0	n/a
79	Gundahoo	NDT 3 BWBS	> 1000	no target	0	0	0	n/a
80	Netson	NDT 2 SWB	< 40	30 - 40	2	2,961	46	no
80	Netson	NDT 2 SWB	40 - 80	30 - 40	0	2,961	0	no
80	Netson	NDT 2 SWB	80 - 250	20 - 40	3	2,961	93	no
80	Netson	NDT 2 SWB	> 250	no target	95	2,961	2,822	n/a
80	Netson	NDT 3 BWBS	< 40	10 - 20	38	112	43	no
80	Netson	NDT 3 BWBS	40 - 250	10 - 20	62	112	69	no
80	Netson	NDT 3 BWBS	250 - 1000	60 - 80	0	112	0	no
80	Netson	NDT 3 BWBS	> 1000	no target	0	112	0	n/a
81	Matulka	NDT 2 SWB	< 40	30 - 40	43	83	35	no
81	Matulka	NDT 2 SWB	40 - 80	30 - 40	58	83	48	no
81	Matulka	NDT 2 SWB	80 - 250	20 - 40	0	83	0	no
81	Matulka	NDT 2 SWB	> 250	no target	0	83	0	n/a
81	Matulka	NDT 3 BWBS	< 40	10 - 20	2	204	5	no
81	Matulka	NDT 3 BWBS	40 - 250	10 - 20	98	204	199	no
81	Matulka	NDT 3 BWBS	250 - 1000	60 - 80	0	204	0	no
81	Matulka	NDT 3 BWBS	> 1000	no target	0	204	0	n/a
82	Boreal	NDT 2 SWB	< 40	30 - 40	3	5,155	134	no
82	Boreal	NDT 2 SWB	40 - 80	30 - 40	0	5,155	0	no
82	Boreal	NDT 2 SWB	80 - 250	20 - 40	6	5,155	297	no
82	Boreal	NDT 2 SWB	> 250	no target	92	5,155	4,723	n/a
82	Boreal	NDT 3 BWBS	< 40	10 - 20	5	1,748	95	no
82	Boreal	NDT 3 BWBS	40 - 250	10 - 20	22	1,748	391	no
82	Boreal	NDT 3 BWBS	250 - 1000	60 - 80	72	1,748	1,262	yes
82	Boreal	NDT 3 BWBS	> 1000	no target	0	1,748	0	n/a
83	Major_Hart	NDT 2 SWB	< 40	30 - 40	1	5,023	71	no
83	Major_Hart	NDT 2 SWB	40 - 80	30 - 40	0	5,023	0	no
83	Major_Hart	NDT 2 SWB	80 - 250	20 - 40	3	5,023	165	no



Landscape Unit #	Landscape Unit Name	Natural Disturbance Type	Patch SizeRange	Percent Area in Patch Size Target	Current % in Patch Size	Total Area in young patches for the Layer-NDT (ha)	Area in patch size group (ha)	Does Current Conditions Meet Patch Size Target?
83	Major_Hart	NDT 2 SWB	> 250	no target	95	5,023	4,788	n/a
83	Major_Hart	NDT 3 BWBS	< 40	10 - 20	14	1,654	237	yes
83	Major_Hart	NDT 3 BWBS	40 - 250	10 - 20	20	1,654	331	yes
83	Major_Hart	NDT 3 BWBS	250 - 1000	60 - 80	66	1,654	1,086	yes
83	Major_Hart	NDT 3 BWBS	> 1000	no target	0	1,654	0	n/a
84	Sharktooth	NDT 2 SWB	< 40	30 - 40	5	1,672	84	no
84	Sharktooth	NDT 2 SWB	40 - 80	30 - 40	6	1,672	94	no
84	Sharktooth	NDT 2 SWB	80 - 250	20 - 40	18	1,672	300	no
84	Sharktooth	NDT 2 SWB	> 250	no target	71	1,672	1,195	n/a
84	Sharktooth	NDT 3 BWBS	< 40	10 - 20	5	609	31	no
84	Sharktooth	NDT 3 BWBS	40 - 250	10 - 20	16	609	100	yes
84	Sharktooth	NDT 3 BWBS	250 - 1000	60 - 80	79	609	478	yes
84	Sharktooth	NDT 3 BWBS	> 1000	no target	0	609	0	n/a

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MEASURE	IMPLICATIONS OF ALTERNATIVE STRATEGIES				
	Alternative Strategy # 1 (No Harvest)	Alternative Strategy # 2 (No Constraints)	Alternative Strategy # 3 (CSA Base Case)	Alternative Strategy # 4 (NDU Biodiversity Emphasis)	Alternative Strategy # 5 (Potential Uplift)
1-1.1 A representation analysis exists that describes the number, size and type of distinct habitat types in both the THLB and NHLB and recommends proportion of area that should be represented in an unmanaged state.	This measure would not be needed	Some habitat types would be under represented	Representation analysis would inform harvest and conservation strategies	Representation analysis would inform conservation of specific areas	Representation analysis would inform harvest and conservation strategies
1-1.2 Forest Stewardship Plan consistency with agreed upon representation targets	This measure would not be needed	FSP may be in conflict with targets	FSP consistent with targets	FSP consistent with targets	FSP consistent with targets
1-1.3 (Interim) – percent area by old and mature+old seral stage by Landscape Unit and BEC variant for CFLB affected by forest management operations	This measure would not be needed	Old seral stage would decline in the THLB	Old seral stage declines over the long term in the THLB	Old seral stage increases	Old seral stage would decline
1-2.1 Number, spatial distribution, characteristics, rank and type of significant habitat features and species in each habitat type in the THLB and NHLB					
<i>Dead standing trees on harvested areas in the THLB</i>	Snag numbers would depend on natural disturbance events	Snags would decrease	Snags would stay the same relative to current condition	Snags would increase	Snags would stay the same relative to current condition
<i>Stand level retention by Landscape Unit and BEC variant</i>	Not applicable	Stand level retention would decrease	Stand level retention would stay the same relative to current condition	Stand level retention would increase or stay the same	Stand level retention percentage would stay the same relative to current condition
<i>Coarse woody debris on harvested areas in the THLB</i>	CWD would increase	CWD would decrease	CWD would stay the same relative to current condition	CWD would increase	CWD would stay the same relative to current condition
<i>Riparian areas in THLB</i>	Riparian areas would remain intact	Riparian areas would be impacted (crossings)	Riparian areas would stay the same relative to current condition	Riparian buffers would increase	Riparian areas would stay the same relative to current condition
<i>Shrub areas across the CFLB</i>	Shrub areas would likely decrease in the short term	Shrub areas would increase in the short term	Shrub areas would stay the same relative to current condition	Shrub areas would likely decrease in the short term	Shrub areas would stay the same relative to current condition
<i>Hardwood areas across the CFLB</i>	Hardwood areas would stay the same relative to current condition	Hardwood areas would stay the same relative to current condition	Hardwood areas would stay the same relative to current condition	Hardwood areas would stay the same relative to current condition	Hardwood areas would stay the same relative to current condition
<i>Patch size distribution for stands &lt;20 years old for CFLB by BEC Zone and Natural Disturbance Type</i>	No need for patch size management	Early patches would increase, mid and late would decrease	Early patch increases in the short term	Early patch decreases in the short term	Early patch increases in the short term

**APPENDIX 1.8 – Scenario/Measure Comparison Matrix**

MEASURE	IMPLICATIONS OF ALTERNATIVE STRATEGIES				
	Alternative Strategy # 1 (No Harvest)	Alternative Strategy # 2 (Full Harvest)	Alternative Strategy # 3 (Base Case)	Alternative Strategy # 4 (Biodiversity Emphasis)	Alternative Strategy # 5 (Optimization)
1-2.2 The percentage of CFP/BCTS constructed stream crossings which are compliant with legal requirements	There would be no crossings	There would be increased crossings	The number of crossings would stay the same relative to current condition	There would be fewer crossings	The number of crossings would stay the same relative to current condition
1-2.3 The percentage of CFP/BCTS constructed surveyed stream crossings identified with a high WQCR rating on forestry roads within the DFA for which participants are responsible (*WQCR – water quality concern rating)	There would be no crossings	There would be increased potential but likely no change relative to current condition	There would be no change relative to current condition	There would be decreased potential but likely no change relative to current condition	There would be no change relative to current condition
1-2.4 The percentage of CFP/BCTS constructed stream crossings planned and installed to design / standard.	There would be no crossings	There would be no change relative to current condition	There would be no change relative to current condition	There would be no change relative to current condition	There would be no change relative to current condition
1-2.5 The percentage of CFP/BCTS constructed stream crossing inspections and resulting mitigation measures completed according to schedule.	There would be no crossings	There would be no change relative to current condition	There would be no change relative to current condition	There would be no change relative to current condition	There would be no change relative to current condition
1-2.6 The percentage of CFP/BCTS constructed temporary stream crossings that are removed to standards	There would be no crossings	There would be increased crossings	The number of crossings would stay the same relative to current condition	There would be fewer crossings	The number of crossings would stay the same relative to current condition
1-3.1 Report recommending vertebrate species for monitoring is developed	There would be no report	The report would be completed	The report would be completed	The report would be completed	The report would be completed
1-3.2 Recommended vertebrate species populations remain productive relative to baseline	There would be no management strategies	The strategies would be completed	The strategies would be completed	The strategies would be completed	The strategies would be completed
1-3.3 Develop Management Strategies for identified local Forest Dwelling Species at Risk as identified in Schedule One of SARA	Population numbers would be determined by natural disturbance events	Potential for decreased populations for some species and increase for others	Populations would stay the same relative to current condition	Population numbers would be determined by natural disturbance events	Populations would stay the same relative to current condition
1-3.4 The percentage of Schedule One Species at Risk management strategies that are followed	There would be no management strategies	The strategies would be impacted	The strategies would be followed	The strategies would be followed	The strategies would be followed

MEASURE	IMPLICATIONS OF ALTERNATIVE STRATEGIES				
	Alternative Strategy # 1 (No Harvest)	Alternative Strategy # 2 (Full Harvest)	Alternative Strategy # 3 (Base Case)	Alternative Strategy # 4 (Biodiversity Emphasis)	Alternative Strategy # 5 (Optimization)
1-4.1 List and percentage of total land-base of government designated protected areas	List would not be developed	List would be developed	List would be developed	List would be developed	List would be developed
1-4.2 Hectares of Forestry Related Harvesting or Road Construction within Class A parks, ecological reserves and LRMP designated protected areas	N/A	No harvesting in protected areas	No harvesting in protected areas	No harvesting in protected areas	No harvesting in protected areas
1-4.3 Once discovered and documented, % of sites of special biological significance managed for as part of the Forest Stewardship Planning process	No FSP process	Sites could be compromised if not considered	Sites would shift harvest in some cases. Likely small impact on AAC	Sites would shift harvest in some cases. Likely some impact on AAC	Sites would shift harvest in some cases. Likely small impact on AAC
1-4.4 Proportion of forest management activities consistent with legal objectives for Muskwa-Kechika management area	No forest management activities	forest management activities would be consistent with legal objectives for Muskwa-Kechika management area	forest management activities would be consistent with legal objectives for Muskwa-Kechika management area	forest management activities would be consistent with legal objectives for Muskwa-Kechika management area	forest management activities would be consistent with legal objectives for Muskwa-Kechika management area
1-4.5 Proportion of forest management activities consistent with legal objectives and general wildlife measures of approved wildlife habitat areas and ungulate winter range	No forest management activities	Forest management activities would be consistent with legal objectives. Likely an impact on ability to achieve full harvest	Forest management activities would be consistent with legal objectives.	Forest management activities would be consistent with legal objectives. There may be an increase in wildlife habitat area conservation and subsequent reduction in AAC	Forest management activities would be consistent with legal objectives.

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**APPENDIX 1.8 – Scenario/Measure Comparison Matrix**

<b>MEASURE</b>	<b>IMPLICATIONS OF ALTERNATIVE STRATEGIES</b>				
	<b>Alternative Strategy # 1 (No Harvest)</b>	<b>Alternative Strategy # 2 (Full Harvest)</b>	<b>Alternative Strategy # 3 (Base Case)</b>	<b>Alternative Strategy # 4 (Biodiversity Emphasis)</b>	<b>Alternative Strategy # 5 (Optimization)</b>
2-1.1 Interim measure - Site Index by inventory type group for harvested areas	Site Index would not be monitored	Site index would not decline	Site index would not decline	Site index would not be impacted	Site index would not decline
2-1.2 Amount of coarse woody debris on harvested areas	N/A	Potential for CWD to decline over 3 rotations	Status quo amounts of CWD	Status quo CWD on harvested areas	Status quo amounts of CWD
2-2.1 Area of THLB converted to non-forest land use through forest management activities	N/A	Increased mainline access	Status quo conversion due to mainline access	Status quo conversion	Status quo conversion
2-2.2 The percent of cutblocks area having road/landing construction	N/A	Increased road/landing construction	Status quo for road/landing construction	Percent could increase with increased number of smaller blocks or could decrease with overall decrease in blocks	Status quo for road/landing construction
2-2.3 The percent of long term detrimental disturbance (compaction; increased water table)	N/A	Potential for more increase but not likely given management practices	Status quo	Likely no change from status quo	Status quo
2-2.4 Number of hectares of landslides resulting from forestry practices	N/A	No change from current	No change from current	No change from current	No change from current
2-3.1 Regen delay period	N/A	No change from current	No change from current	No change from current	No change from current
2.3-2 The percent compliance with regeneration standards set in FDP/FSP	N/A	No change from current	No change from current	No change from current	No change from current
2.3-3 The percent of Area in compliance with free growing measures	N/A	No change from current	No change from current	No change from current	No change from current
2-4.1 The percent of significant detected natural disturbance damaging events in the THLB which have treatment plans prepared and implemented	No events monitored or treated	New for SFM Plan	New for SFM Plan	New for SFM Plan	New for SFM Plan
2-4.2 The percent of catastrophic natural disturbance events as a result of forest management practices	N/A	New for SFM Plan	New for SFM Plan	New for SFM Plan	New for SFM Plan

MEASURE	IMPLICATIONS OF ALTERNATIVE STRATEGIES				
	Alternative Strategy # 1 (No Harvest)	Alternative Strategy # 2 (Full Harvest)	Alternative Strategy # 3 (Base Case)	Alternative Strategy # 4 (Biodiversity Emphasis)	Alternative Strategy # 5 (Optimization)
3-1.1 Estimated amount of carbon stored in trees in the TSA (converted from TSR M3/ha)	Carbon Storage as per natural processes	Increased reduced carbon storage	Status quo Carbon storage (likely slight decline in storage versus no harvest)	Increase storage over status quo	Status quo Carbon storage
3-1.2 Estimated carbon in non-tree vegetation (above ground biomass and roots)	Carbon Storage as per natural processes	Increase in non tree vegetation	Status quo	Likely slight decrease in non tree vegetation	Likely slight increase in non tree vegetation
3-3.1 Interim measures – Hardwoods, shrubs 1-2.1 <ul style="list-style-type: none"> <li>➤ Area of THLB converted to non-forest land use through forest management activities 2-2.1</li> <li>➤ The percent of cutblocks area having road/landing construction 2-2.2</li> <li>➤ The percent compliance with regeneration standards 2-3.2</li> <li>➤ The percent of Area in compliance with free growing measures 2-3.3</li> <li>➤ Regeneration delay 2-3.1</li> <li>➤ Volume of timber (AAC tracked as part of TSR) 4-1.2</li> </ul>	As per earlier discussion for each measure	As per earlier discussion for each measure	As per earlier discussion for each measure	As per earlier discussion for each measure	As per earlier discussion for each measure

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MEASURE	IMPLICATIONS OF ALTERNATIVE STRATEGIES				
	Alternative Strategy # 1 (No Harvest)	Alternative Strategy # 2 (Full Harvest)	Alternative Strategy # 3 (Base Case)	Alternative Strategy # 4 (Biodiversity Emphasis)	Alternative Strategy # 5 (Optimization)
4-1.1 Total value of the actual timber harvest (amount of harvest related to product value in the marketplace)	No value set	Value of the timber harvest would increase over the short term	Value would be status quo	Value would likely decrease as a result of the decrease to AAC	Value would likely increase as AAC increases
4-1.2 Timber supply certainty – AAC	No AAC	Increased AAC in both short (4.3 million m3/yr) and long term (3.4 million m3/yr)	AAC stays at 1.5 million m3/yr through short and long term	AAC to TSR 3 Standards could increase in both short (2.5 million m3/yr) and long term (1.9 million m3/yr)	AAC could increase from 1.5 up to 3.5 million m3/yr
4-1.3 The percentage of harvested area regenerated to target species composition	All natural regeneration after natural disturbance	All harvested areas would be regenerated	All harvested areas would be regenerated	All harvested areas would be regenerated	All harvested areas would be regenerated
4.2.1 Employment in each forestry sub-sector locally	No employment	Increased short term employment	Status quo employment	Slight decrease in employment	Slight increase in employment
4.2.2 Income from Forestry Sub-sectors	No income	Increased short term income	Status quo income	Slight decrease in income	Slight increase in income
4.2.3 Indirect/Induced employment and income estimates	No employment	Increased short term employment	Status quo employment	Slight decrease in employment	Slight increase in employment
4.2.4 Percentage of dollars spent locally on each forestry sub-sector in proportion to total expenditures	None	Increased short term dollars spent	Status quo dollars spent	Slight decrease in dollars spent	Slight increase in dollars spent
4.2.5 Opportunity sustained by Canfor to purchase private wood	None	Decrease in private wood purchase	Status quo purchase	Increase in private wood purchase	Status quo purchase
4.3.1 Fees paid by industry to municipal governments	None	No change	Status quo	No change	No change
4.3.2 Personal income taxes - forest industry relative to total	None	Increase in income taxes paid	Status quo	Slight decrease in income taxes	Increase in income taxes paid

MEASURE	IMPLICATIONS OF ALTERNATIVE STRATEGIES				
	Alternative Strategy # 1 (No Harvest)	Alternative Strategy # 2 (Full Harvest)	Alternative Strategy # 3 (Base Case)	Alternative Strategy # 4 (Biodiversity Emphasis)	Alternative Strategy # 5 (Optimization)
4-4.1 Number of documented opportunities (by forestry sub sector) for local First Nations to enter into contracts with Canfor and BCTS	No opportunities	Increased opportunities	Status quo	Likely slight decrease in opportunities	Likely slight increase in opportunities
4.5.1 Competitiveness of delivered log costs as established under Market Pricing System, compared to prices for adjacent TSAs	N/A	MPS price would go down with increased wood availability	No change	MPS price would go up slightly with tighter wood supply	MPS would go down with increased wood availability
4.5.2 A competitive primary milling facility is sustained	None would exist	Status quo	Status quo	Status quo	Status quo
4.6.1 Assessments of damaging events or agents (current status; risk potential)	None	No change	No change	No change	No change
4.6.2 Management strategies in place to reduce the impact of damaging events or agents (including plans, suppression, salvage)	None	No change	No change	No change	No change
5.1.1 List of existing and documented potential for marketed non-timber benefits	None	No change	No change	No change	No change
5.1.2 Number of jobs/non timber forest resource sector	None	Likely No change	Likely No change	Likely No change	Likely No change
5.1.3 Income/non timber forest resource sector	None	Likely No change	Likely No change	Likely No change	Likely No change
6.1.1 Employment supported by each sector of the local economy (actual and percentage of total employment)	Short term decrease due to decrease in supply chain needs	Short term increase	Status quo	Short term decrease	Short term increase
6.1.2 Contribution of income sources from each sector of the local economy (actual and percentage of data)	Short term decrease due to decrease in supply chain needs	Short term increase	Status quo	Short term decrease	Short term increase



**APPENDIX 1.8 – Scenario/Measure Comparison Matrix**

<b>MEASURE</b>	<b>IMPLICATIONS OF ALTERNATIVE STRATEGIES</b>				
	<b>Alternative Strategy # 1 (No Harvest)</b>	<b>Alternative Strategy # 2 (Full Harvest)</b>	<b>Alternative Strategy # 3 (Base Case)</b>	<b>Alternative Strategy # 4 (Biodiversity Emphasis)</b>	<b>Alternative Strategy # 5 (Optimization)</b>
7-1.1: Implementation and annual update of a comprehensive stakeholder analysis of affected and interested parties	None would exist	No change	Status quo	No change	No change
7-1.2: Development and implementation of a communication /participation plan, with early input from a range of stakeholder representatives	None would exist	No change	Status quo	No change	No change
7-1.3 The existence of an effective public advisory group	None would exist	No change	Status quo	No change	No change
7-1.4: The conduct of an equitable and inclusive public deliberation process prior to making major management decisions	None would exist	No change	Status quo	No change	No change
7-1.5: Documentation of open and transparent reciprocal exchange of social values/opinions, their influence on decisions, and participant satisfaction	None would exist	No change	Status quo	No change	No change
7-1.6 Endorsement of the SFM Plan	None would exist	No change	Status quo	No change	No change
7 -2.1: The number of effective communications with the public regarding information on key resource indicators during the planning process	None would exist	No change	Status quo	No change	No change
7 -2.2: Demonstration of Reciprocal knowledge exchange (i.e. Local community expresses increased knowledge of SFM and technical expert incorporates local knowledge into forest management decisions/plans)	None would exist	No change	Status quo	No change	No change
7 -3.1: Adaptive Management strategy is developed, documented and acted upon	None would exist	No change	Status quo	No change	No change
7 -3.2: Monitoring plans for indicators	None would exist	No change	Status quo	No change	No change

MEASURE	IMPLICATIONS OF ALTERNATIVE STRATEGIES				
	Alternative Strategy # 1 (No Harvest)	Alternative Strategy # 2 (Full Harvest)	Alternative Strategy # 3 (Base Case)	Alternative Strategy # 4 (Biodiversity Emphasis)	Alternative Strategy # 5 (Optimization)
7 -3.3: Forecasting plans for indicators	None would exist	No change	Status quo	No change	No change
7 -3.4: Information Management system is in place	None would exist	No change	Status quo	No change	No change
7 -3.5: Reports and analysis of monitoring information	None would exist	No change	Status quo	No change	No change
8-1.1 The percent of disputes resolved on legally established treaty or legally established customary use rights established through written documents related to potential conflicts	None would exist	No change	Status quo	No change	No change
8-1.2 Appropriate mechanisms established through written documents/memoranda on the methods and procedures to resolve disputes over treaty and customary rights	None would exist	No change	Status quo	No change	No change
8-2.1 The percentage participation by Canfor and BCTS in implementation of treaty and use rights strategies	None would exist	No change	Status quo	No change	No change
8-2.2 The percentage Success in implementing and monitoring management practices related to maintaining and enabling access to resources for First Nations through strategies articulated in Forest Stewardship Plans and/or MoAs.	None would exist	No change	Status quo	No change	No change
8-2.3 Level of satisfaction with access to forest resources is maintained and/or enhanced relative to baseline status	None would exist	No change	Status quo	No change	No change

MEASURE	IMPLICATIONS OF ALTERNATIVE STRATEGIES				Alternative Strategy # 5 (Optimization)
	Alternative Strategy # 1 (No Harvest)	Alternative Strategy # 2 (Full Harvest)	Alternative Strategy # 3 (Base Case)	Alternative Strategy # 4 (Biodiversity Emphasis)	
8-3.1 Reciprocal demonstration of knowledge exchange (i.e. local community expresses increased knowledge of SFM and forest managers express increased knowledge of culturally relevant forest uses).	None would exist	No change	Status quo	No change	No change
8-3.2 Forest management plans demonstrate consideration and accommodation of known First Nations cultural issues by protecting/enhancing culturally sensitive areas/features	None would exist	No change	Status quo	No change	No change
8-3.3 Forest management plans demonstrate consideration and accommodation of First Nations' rights and interests in known Non-Timber Forest Products (NTFPs).	None would exist	No change	Status quo	No change	No change
8-4.1 The percentage of accessible plans, maps and/or visual simulations showing baseline cultural uses of local forest resources, recognizing First Nations' concern for privacy for specific features that are made accessible and are accessed by Canfor and BCTS.	None would exist	No change	Status quo	No change	No change
8-4.2 The percentage of plans, maps and/or visual simulations that outline logging details such as cutting areas, road construction, and include temporal aspects made available for First Nations.	None would exist	No change	Status quo	No change	No change
8-4.3 Meaningful First Nations participation enabled through culturally appropriate opportunities for inclusive participation.	None would exist	No change	Status quo	No change	No change
8-4.4 First Nations can comprehend management plan(s) (eg FSPs) and annual SFM reports	None would exist	No change	Status quo	No change	No change

MEASURE	IMPLICATIONS OF ALTERNATIVE STRATEGIES				
	Alternative Strategy # 1 (No Harvest)	Alternative Strategy # 2 (Full Harvest)	Alternative Strategy # 3 (Base Case)	Alternative Strategy # 4 (Biodiversity Emphasis)	Alternative Strategy # 5 (Optimization)
9-1.1 Areas and percentage of forest managed primarily for one or more compatible recreation activities (by activity) relative to base line status as identified in strategy documents	None would exist	Likely some impact on some recreation areas	Status quo	No change	No change
9-1.2 Number of recreation sites/facilities maintained relative to baseline status	None would exist	Likely some impact on some recreation areas	Status quo	No change	No change
9-1.3 Ensure no net negative impact to access routes, appropriate for recreational use level in area, as a result of forest management activities	None would exist	Likely some impact on some recreation areas	Status quo	No change	No change
9-1.4 Balance of primitive, semi-primitive, & developed recreation opportunities (and associated quality of experience) as defined in identified strategy documents is maintained, relative to baseline status (by area)	None would exist	Likely some impact on some recreation areas	Status quo	No change	No change
9-2.1: The percentage that forest management complies with existing Visual Quality Objectives (VQOs) established by the BC Ministry of Forests for the area	None would exist	Likely some impact on some visual quality areas	Status quo	VQO classification achieved earlier for 6% of polygons under modification class, no change for others	VQO classification achieved later for 2% of polygons under modification class, no change for others
9-2.2 Conformance with LRMP comments re: Visuals in river corridors and Muskwa River corridor use	None would exist	Likely some impact on some visual quality areas	Status quo	No change	No change
9-3.1: Identify and track existing unique or significant places and features and protected areas	None would exist	No change	Status quo	No change	No change
9-3.2 Track proposed unique or significant places and features and protected areas	No change	No change	Status quo	No change	No change
9.3.3 All existing and proposed unique or significant places and features and protected areas will have documented description of their degree of protection	No change	No change	Status quo	No change	No change
9-4.1: Number of safety incidences occurring in the bush related to forest management strategies decline relative to baseline	No safety issues	No change	Status quo	No change	No change

MEASURE	IMPLICATIONS OF ALTERNATIVE STRATEGIES				
	Alternative Strategy # 1 (No Harvest)	Alternative Strategy # 2 (Full Harvest)	Alternative Strategy # 3 (Base Case)	Alternative Strategy # 4 (Biodiversity Emphasis)	Alternative Strategy # 5 (Optimization)
9-4.2 The percentage of observance of recognized safety standards in forest engineering and operations.	No safety issues	No change	Status quo	No change	No change
9-4.3 Written safety policies in place, are being implemented and are effective	No safety issues	No change	Status quo	No change	No change
9-4.4 Safety occurrence summary exists	No safety issues	No change	Status quo	No change	No change

Information Only