

Merritt TSA Sustainable Forest Management Plan Annual Report

Reporting year: 2005

Licensee: Tolko Industries Ltd. – Nicola – A18696/A74911

Note: For ease of consolidating reports for the TSA, provide figures as required for all monitoring data

Tar #	Monitoring parameter	Monitoring results
1	<p>Monitoring/Reporting: Licensees will report the total number of hectares of Natural Disturbance Type 4 (NDT) greater than 250 years of age they have harvested (block area) during the reporting year as compared to the total number of hectares of Natural Disturbance Type 4 greater than 250 years of age (total TSA area, figure from Ministry of Forests).</p> <p>Licensees will also report the number of hectares harvested in age class greater than 250 years in NDT 4 where the leading species (from inventory label) is/are not harvested but younger trees (not contributing to the inventory age stand age) are harvested. An example would be the harvest of younger lodgepole pine in a mixed older fir and successional pine forest.</p>	<p>17.0 Total ha of NDT 4 >250 years harvested (leading species from inventory type label).</p> <p>13 849 Total ha of NDT 4 >250 years (total TSA area, figure from MOF)</p> <p>17.0 Number of ha harvested in age class greater than 250 years in NDT 4 where the leading species (from inventory label) is/are not harvested but younger trees (not contributing to the inventory age stand age) are harvested.</p>
2	<p>Monitoring/Reporting: Licensees will report the number of riparian related non-conformances to licensee plans as compared to the number of riparian commitments in licensee plans occurring during the reporting year. Details will be provided for all non-conformances.</p>	<p>55 # of riparian commitments in plans</p> <p>0 # of non-conformances to riparian commitments in plans</p> <p>Provide details regarding non-conformances below:</p> <hr/>

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3	<p>Monitoring/Reporting: Licensees will report, for cutblocks greater than 5 hectares, the number of cutblocks harvested with wildlife tree patches within or parented to the cutblock and/or individual trees/stubs within the cutblock as compared to the total number of cutblocks greater than 5 hectares harvested during the reporting year.</p>	<p>78 # of cutblocks >5ha with associated Wildlife Tree retention /</p> <p>78 total # of cutblocks harvested</p>
4	<p>Monitoring/Reporting: Licensees will report the number of First Nation commitments related to the Forest Development Plan (FDP) that were achieved as compared to the total number of First Nations commitments made in the FDP.</p>	<p>77 # of First Nation commitments related to FDP achieved /</p> <p>77 total # of First Nation commitments made in FDP</p>
5	<p>Monitoring/Reporting: All trees planted on harvested areas must comply with stocking standards specified in Licensee plans. Licensees will report the:</p> <ul style="list-style-type: none"> number of harvested areas which were planted with species ecologically suited to the site during the reporting period. This will be compared to the total number of harvested areas planted. 	<p>108 # of harvested areas that were planted with species ecologically suited to the site</p> <p>108 total # of harvested areas that were planted (1161.8 ha Planted – 108 Blocks)</p>

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6	<p>Monitoring/Reporting: Licensees will report the area harvested where licensee plans contained commitments to protect Identified Wildlife and the area harvested where operations conformed to licensee plans to protect Identified Wildlife. Licensees will provide a list of IWMS species managed.</p>	<p>113.0 # ha harvested where operations conformed to licensee plans to protect Identified Wildlife</p> <p>113.0 # total # ha harvested where licensee plans contained commitments to protect Identified Wildlife</p> <p>List IWMS Species managed for:</p> <p>Mountain Beaver</p> <p>Tailed Frog</p>
7	<p>Monitoring/Reporting: Utilize local knowledge, actual on the ground indicators and strategy mapping to enable data consolidation. Licensees will report:</p> <ul style="list-style-type: none"> the number of cutblocks harvested that were managed consistent with the mule deer winter range strategy as compared to the total number of cutblocks harvested that were within the mule deer winter range area. 	<p>20 # of cutblocks managed consistent with mule deer strategy /</p> <p>20 total # of blocks harvested within mule deer winter range area</p>
8	<p>Monitoring/Reporting: Licensees will report the total amount of Canada #1 or equivalent grass seed purchased (kilograms) as compared to total seed applied (kilograms) for the reporting period.</p>	<p>2539 kg of seed Canada #1 or equivalent purchased /</p> <p>2539 Total kg of seed applied for revegetation of r/w.</p>

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9	<p>Monitoring/Reporting: Harvest priorities will be established internally and consistent with the District forest health strategy. These priorities are monitored and revised as new information is made available. Licensees will report the:</p> <ul style="list-style-type: none"> • Number of hectares committed to harvest by critical time frame. • Number of hectares harvested within critical time frame. <p>Licensees will report these figures by catastrophic forest health agent (e.g. mountain pine beetle)</p>	<p>247.4 ha committed to harvest by critical timeframe (by catastrophic forest health agent)</p> <p>305.4 ha harvested within critical timeframe (by catastrophic forest health agent)</p> <p>Catastrophic Health Agent IBM – Mountain Pine Beetle</p> <p>In estimating the amount of area to be harvested within the critical timeframe, we consider the currently approved STI that we have at January 1/05 with significant beetle attack (>5%) and in predominantly PL (>50%).</p> <p>During the critical time frame we received additional approvals for areas that meet the above criteria and secondly, we were able to take advantage of the increased cut that we received in the Weyerhaeuser operating area acquisition that was finalized late in 2004.</p>
10	<p>Monitoring/Reporting: Licensees will report the area of cutblocks that achieved free growing status (prior to or at late free-growing date) as compared to the total hectares declared free growing status prior to, at or beyond late free-growing date (during the reporting year).</p>	<p>835.9 ha of cutblocks that achieved free growing status prior to or at late re-growing date /</p> <p>835.9 total ha declared free-growing status prior to, at or beyond late free-growing date</p>

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11	<p>Monitoring/Reporting: Licensees will report the cutblock area (ha) which achieved free growing status and the average time (years) that the cutblock outperformed late free growing date (weighted average based on cutblock area).</p>	<p>778.1 # of ha achieving free-growing prior to late free-growing date</p> <p>Average time 5.1 years that cutblocks outperformed late free growing date (weighted average: $[\text{area} \times \text{year}] + [\text{area} \times \text{year}] / \text{total area}$)</p>
12	<p>Monitoring/Reporting: Information from Licensee plans will be utilized unless an internal or Ministry of Forests inspection reports the plan number has been exceeded, in which case the actual number will be used in report. Licensees will report the:</p> <p>cutblock area (ha) of permanent roads and landings identified in licensee plans as compared to the gross block area (ha) for cutblocks harvested during the reporting year.</p>	<p>82.7 ha of permanent access structures /</p> <p>1511.1 ha total gross cutblock area</p> <p>5.5%</p>

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13	<p>Monitoring/Reporting: Licensees will report the area (hectares) where soil disturbance commitments were not achieved as compared to the total gross area harvested during the reporting year.</p>	<p>1.3 (2004) 10.1 (2005) ha soil disturbance where plan commitments were not achieved (report impacted area only)</p> <p>1224 ha (2004) 1511 ha (2005) ha total gross area harvested</p> <p>Soil disturbance surveys are completed based on risk rating done by logging supervisors, therefore, some of the areas surveyed will be for the previous years' harvesting.</p> <p>The areas where soil disturbance exceeded the maximum were mainly caused by compaction and wide scalps on roadside area (1.3 ha – 2004).</p> <p>Tolko – Nicola has an EMS Program in place to survey these high hazard areas and create tasks and procedures to manage the level of soil disturbance on harvested areas. This program has been ongoing since 2001.</p>
14	<p>Monitoring/Reporting: Licensees will report the number and associated area of operationally caused slides resulting from a failure to perform a terrain hazard assessment or follow the recommendations within a completed assessment.</p>	<p>0 # of slides 0 Area of slides</p>
15	<p>Monitoring/Reporting: Licensees will report the number of cutblocks harvested where the watershed ECA exceeded 35% and no further hydrological assessments were completed compared to the total number of cutblocks harvested where the watershed ECA exceeded 35%.</p>	<p>0 total # of cutblocks harvested where the watershed ECA exceeded 35%</p> <p>0 # cutblocks where ECA exceeded 35% and no further hydrological assessments were completed</p>

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16	<p>Monitoring/Reporting: Road inspection frequency is based on risk (i.e. community watershed, fish stream presence and level of deactivation, previous history). Licensees will report the:</p> <ul style="list-style-type: none"> • Number of road/ structure inspections completed as compared to the number of inspections established in road maintenance programs during the reporting year. • Number of maintenance action items related to water management and soil movement completed as compared to the total number of maintenance action items that required completion during the reporting year. 	<p>214 # of road/ structure inspections completed / 232 # of inspections established in program</p> <p>Of 232 roads requiring inspection in 2005, 18 were not completed due to time and people constraints. The report also indicates that the Company inspected 150 road segments that were not originally scheduled, but were completed in addition to planned items. These would have been inspected because we were in that area inspecting another section of road or in that area supervising. The sections of roads not inspected in 2005 have been advanced to inspect in 2006.</p> <p>18 total # of maintenance action items requiring completion during the reporting period</p> <p>14 # of maintenance action items completed as scheduled</p> <p>The CSA maintenance items not completed were the result of shortage in staff. A consultant was used to inspect some roads, but the information was not passed on in a timely manner. These action items will be incorporated in the 2006 program.</p> <p>A Process Improvement Form has been completed to ensure CSA Maintenance items are accurately tracked. Maintenance items will now be flagged in MapInfo in conjunction with the inspection.</p>

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17	<p>Monitoring/Reporting: Utilize information for initial prescribed planting, not for fill planting. Licensees will report:</p> <ul style="list-style-type: none"> The area planted prior or within the third growing season as compared to the total area planted during the reporting year. The hectares of naturally regenerated area which achieved regeneration delay as compared to the total hectares of naturally regenerated area where regeneration delay expired during the reporting year. 	<p>943.9 ha planted prior to or within the third growing season / 945.5 total ha planted</p> <p>The majority of Cutting Permit 132-2 was planted using 2003 hotlift stock (prior to the third growing season). A small portion of this block was not completed due to a stock shortfall, as a result of re-allocation, and was completed in 2005 (4th growing season).</p> <p>677.4 ha of naturally regenerated area meeting regeneration delay / 677.4 total ha of naturally regenerated area where regeneration delay expired during the reporting year.</p>
18	<p>Monitoring/Reporting: Licensees will report the harvest level allocated for each license and harvest level cut (cut control volume) for the past reporting year.</p>	<p>A18696 (License) 409 709 m3 annual harvest 387 665 m3 annual allocation A74911 (License) 95 966 m3 annual harvest 125 000 m3 annual allocation Variance exceeded ____ yes X no</p>

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19	<p>Monitoring/Reporting: Licensees will report the total output of lumber (thousand board feet), chips, shavings and hog fuel (bone dry units) from sawmills within the TSA. For other lumber products report the total output (m³) (e.g. posts).</p>	<p>Total lumber output 203 388 mbf Total chip, shavings and hog fuel output 122 346 bdu Total other 0 m³</p>
20	<p>Monitoring/Reporting: Licensees will report:</p> <ul style="list-style-type: none"> • the number of timber processing facility operating days. the average number of shifts for day the mill was in production • the number of mill employees on payroll 	<p>251 # of timber processing facility operating days 3 average # of shifts for days the mill was in production 156 # of mill employees on payroll</p>
21	<p>Monitoring/Reporting: Licensee will report the area harvested where licensee plans contained commitments to manage lakeshore and the area harvested where operations conformed to Licensee plans to manage lakeshore.</p>	<p>26.9 total ha which required management for lakeshore guidelines 26.9 # ha where operations conformed to the plan</p>
22	<p>Monitoring/Reporting: Licensees will report the number of harvested cutblocks in known scenic areas with visual impact assessments completed as compared to the number of cutblocks harvested which required a visual impact assessment during the reporting year.</p>	<p>14 # of harvested cutblocks in known scenic areas with VIA completed / 15 # of cutblocks harvested which required VIA to be completed Only 0.2 ha of one cutblock was inside VIA, so VIA was not warranted.</p>

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23	Monitoring/Reporting: Licensees will report the number of meetings (including amendments) which were held and available to discuss Forest Development Plans/Forest Stewardship Plans and the number of people who attended these meetings.	18 # of FDP/FSP meetings 88 # of people who attended FDP/FSP meetings
24	Monitoring/Reporting: Licensees will report the number of SFM Advisory Group meetings held during the reporting year.	3 # of SFM advisory group meetings
25	Monitoring/Reporting: Licensees will report the number of Forest Development Plan/Forest Stewardship Plan consultation meetings held with First Nations.	27 # of FDP/FSP First Nations consultation meetings
26	Monitoring/Reporting: Licensees (through the NSIFS) will report the nature of involvement that First Nations had with the Nicola Similkameen Innovative Forestry Society.	First Nations involved in NSIFS X yes ____ no Describe the nature of involvement below: <ul style="list-style-type: none"> • Two of seven members of the Board of Directors • Includes membership from two Tribal Nations • Active participation on Technical Committee • Major recipient of contract work for Society • Periodic host of Society meeting – Princeton, Merritt, Douglas Lake

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27	<p>Monitoring/Reporting:</p> <p>27a: Licensees will report the number of forestry extension activities that were offered to reach community people and the number of community people that attended each activity.</p> <p>27b: Licensees will report a yes/no answer as to whether the web site is being maintained, and whether SFMP and other information was made publicly available in the last year.</p> <p>27c: Licensees will report on the number of responses sent out by licensees compared to the number of written requests for communication. Report the average timeline for response.</p>	<p>11 # of extension activities</p> <p>68 # of community people reached through extension activities (career days, class room presentations, tours, open houses)</p> <p>Website updated during reporting year <input checked="" type="checkbox"/> Yes, _____ No</p> <p>SFMP and other information circulating to the public in the last year (news release/leaflet/open house etc.) <input checked="" type="checkbox"/> Yes, _____ No</p> <p>Number of written requests for communication 0</p> <p>Number of responses sent out by licensees 0</p> <p>Average timeline for response 0</p>

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29	Monitoring/Reporting: Licensees will report and provide detail regarding local business initiatives and partnerships	List and provide detail regarding local business initiatives and partnerships Highland Block Sort Ska-Lu-La Larry Kirk Sawmills Nicola Post and Rail Upper Nicola Indian Band Grizzly Man Resources Upper Similkameen Indian Band Lower Nicola Indian Band
30	Monitoring/Reporting: Licensees will report the number of First Nation written comments specifically related to Forest Development Plan/Forest Stewardship Plan responded to, compared to the number of First Nations written comments received-in the reporting year that need a response.	8 # of First Nations comments related to FDPs /FSPs requiring a response 8 # of Licensee responses to First Nations comments requiring a response
31	Monitoring/Reporting: Licensees will report the number of stakeholder and public written comments specifically related to Forest Development Plan/Forest Stewardship Plan referral that need a response, as compared to the number of Forest Development Plan consultation-comments responded to by licensees during the reporting year.	0 # of stakeholder/public comments related to FDPs /FSPs requiring a response 0 # of Licensee responses to stakeholder/public comments requiring a response
32	Monitoring/Reporting: Licensees will report the average time (months), for road cut and fill slope seeding application, completed during the reporting year on newly constructed roads.	24.2 total km of road grass seeded 1 average months for grass seed application

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33	<p>Monitoring/Reporting: Licensee report the current number of hectares maintained as Protected Areas as last reported by a Timber Supply Review</p> <p>Licensees report number of opportunities to participate in OGMA delineation and number of opportunities taken.</p>	<p>Number of hectares maintained as Protected Areas (data to come from current TSR). 60 548 ha</p> <p>Number of opportunities to participate in OGMA delineation 0</p> <p>Number of opportunities taken 0</p>
34	<p>Monitoring/Reporting: Licensee report the current age class distribution on as last reported by a Timber Supply Review</p>	<p>Age class as percent of timber harvesting land base (data to come from current TSR).</p> <p>Age Class 1 = 12% Age Class 2 = 3% Age Class 3 = 5% Age Class 4 = 12% Age Class 5 = 10% Average Age Class Distribution = 8%</p>
35	<p>Monitoring/Reporting: Survey responses coded 1 (poor), 2, 3 (satisfactory), 4, 5 (well done), and averaged.</p> <p>Results of feedback form compiled and reported as part of annual monitoring program.</p>	<p>Response average 3</p> <p>Results of feedback form compiled and reported X yes ___ no</p>
36	<p>Monitoring/Reporting: Licensee report the current mai as last reported by a Timber Supply Review</p>	<p>Current mai in m³/ha/yr (data to come from current TSR). 1.52 m³</p>