

Appendix 1: Description of Forest Management Activities applied to Impact Implications Matrices

Functional Areas	Activity	Description
Planning	Public Participation	Joint planning with First Nations and other public involvement processes with: <ul style="list-style-type: none"> • Communities • Resource user groups, operators and individuals • First Nations • Non-government Organizations • Other interested parties and individuals
	Road and Watercourse Crossing Planning	Location, design and scheduling of main access and in-block roads and watercourse crossings including associated infrastructure: <ul style="list-style-type: none"> • Landings • Timber storage sites • Camps • Pits and quarries • Fuel storage sites • Initial general location in terms of access “corridors” and corresponding approximate locations of watercourse crossings are provided with the general development plan contained in the SFMP every 10 years • Annually at the AORP stage these locations are refined to specific locations with corresponding crossing designs
	Harvest and Renewal Planning	Location, design and scheduling of operating blocks and associated cut-blocks including harvesting and subsequent forest renewal activities <ul style="list-style-type: none"> • Initial general location in terms of operating areas within which subsequent operating blocks and cutblocks will be contained are provided with the general development plan contained in the SFMP every 10 years • Annually at the AORP stage these areas are refined to specify operating block and associated cutblock location, design and schedule, including contingency planning
	Sustainability Modeling	Wood supply and habitat supply modeling for determination of sustainable harvest levels <ul style="list-style-type: none"> • Undertaken in association with development of the SFMP to determine sustainable harvest levels to be utilized in subsequent AORP planning for the corresponding 10 year period • May also be undertaken as required to account for changes resulting from major fire disturbances that occur during the 10 year period
	Information Collection and Application	Collection of information from various sources for application to decision making including: <ul style="list-style-type: none"> • Forest inventory and GIS updating for planning, monitoring and reporting • Pre-harvest Assessment (PHA) for road, watercourse crossing and cutblock planning and associated mitigation development at the AORP stage
	Access Management	Development of forest access road access management control mechanisms, including closure and decommissioning <ul style="list-style-type: none"> • Includes resulting public use of roads resulting in increased access and use for hunting and other recreational activity • Overall approach includes development of Access Management Plan in preparation of the SFMP and linkages to joint planning

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Infrastructure Development	All-weather Road development	Permanent, all season Class I and II roads, includes: <ul style="list-style-type: none"> • ROW clearing (tree felling, forwarding and stump removal) • Debris management • Blasting and crushing • Excavation of pits/quarries for aggregate material • Grade construction These roads provide permanent all season travel through specific portions of FML 01
	Dry-weather Seasonal Road Development	Temporary dry weather Class III roads includes: <ul style="list-style-type: none"> • ROW clearing (felling, forwarding and stump removal) • Debris management • Excavation of aggregate material from borrow pits • Grade construction (to minimum level as required) These temporary roads provide dry weather access through FML 01 and are planned for decommissioning and reforestation after use
	Winter Seasonal Road Development	Temporary winter Class IV roads includes: <ul style="list-style-type: none"> • ROW clearing on high ground (felling, forwarding and stump shearing/removal) • Debris management • Tramping, packing, surface blading of non-forested ground These temporary roads provide travel during winter months only on a seasonal basis
	Road and ROW Maintenance	Maintenance of all road classes, as applicable, including: <ul style="list-style-type: none"> • Extraction of aggregates and material from borrow pits/quarries • Surface (grading) and drainage control • ROW (chemical/mechanical) vegetation management (Class I & II) • Watercourse crossing monitoring and maintenance • Beaver dam removal • Packing and grading of snow (Class IV)
	Permanent Watercourse Crossings	Bridge and culvert construction and installation including: <ul style="list-style-type: none"> • Abutments, embankments • Bank stabilization • Bridge decking and support beams • Culverts • Crossing site clean-up
	Temporary Watercourse Crossings	Temporary watercourse crossings including installation of: <ul style="list-style-type: none"> • Culverts • Temporary railcar bridge placement • Bank stabilization • Corderoy log installation • Ice bridge installation • Crossing site clean-up
	Camps, Timber and Fuel Storage Sites	Preparation of site for temporary infrastructure use including: <ul style="list-style-type: none"> • Site clearing, leveling and preparation • Camp construction and clean-up • Site management and operation • Domestic sewage disposal
	Non-hazardous Construction Waste	Handling of waste materials resulting from infrastructure construction including: <ul style="list-style-type: none"> • Disposal of non-hazardous waste generated from tools and supplies containers and construction/maintenance material remaining on site

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Infrastructure Development	Decommissioning	Site decommissioning of Class III and IV roads, landings, timber storage sites, temporary watercourse crossings, pits, quarries and camps includes: <ul style="list-style-type: none"> • Road grade disturbance/decompaction • Temporary railcar/culvert/corderoy removal • Berm/top soil/slash debris roll-back and re-spread • Slope recontouring/stabilization • Revegetation • Road entrance berm placement • Spring thaw of Class IV Roads
Harvesting	Logging	Cutting and removal of timber by felling and forwarding/skidding
	Roadside Slashing and Debris Management	Accumulation of tree boles at roadside and subsequent slashing and deposit of short pieces on site Management of limbs and tops resulting from limbing and topping at the stump area or at roadside
	Timber Storage	Includes clearing (felling and stumping) and leveling of the site and subsequent placement and temporary storage of logs on a site prior to transport to the mill
	Timber Transport to the Mill	Truck haul of timber from roadside landings and timber storage sites to the mill site including loading and unloading
Forest Renewal	Site Preparation and Scarification	Mineral soil exposure for planting or natural seeding using: <ul style="list-style-type: none"> • Disc trencher • Bracke moulder • Winter blading • Drag chains
	Tree Establishment	Natural seeding (by cone scatter and remaining seed trees), artificial seeding and planting of rooted stock for reforestation
	Mechanical Stand Tending	Control of crop tree competition by physical cutting/removal
	Chemical Stand Tending	Control of crop tree competition by herbicide application
Forest Protection	Insect and Disease Control	Protection activities directed towards insect and disease control including: <ul style="list-style-type: none"> • Monitoring of insect populations and disease incidence, an MC responsibility • Identification of infested areas, as observed in undertaking PHA or other forest investigation work, and harvesting of infested trees
	Fire Control	Protection activities directed towards fire control including: <ul style="list-style-type: none"> • Fire prevention actions to reduce/remove fuel sources • Suppression of spark ignition through regular removal of woody material from heavy equipment, equipment use on rocky terrain and welding • Initial attack, apply water and clear fire guard to prevent spread
Equipment Use	In-block Operations	Use of heavy equipment on in-block operations including: <ul style="list-style-type: none"> • Felling • De-limbing • Skidding • Forwarding • Roadside slashing • Log sorting/loading • Timber transportation • Site preparation/scarification • Tree planting • Stand tending • Fuel/supply delivery

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Equipment Use	Fuel Storage and Handling	For mobile and bulk storage tanks includes: <ul style="list-style-type: none"> • Site construction • Installation and maintenance of tanks • Operation and handling of fuel at storage site • Transportation to and within site • Fueling equipment
	Non-hazardous and Hazardous Waste	Handling of waste materials including: <ul style="list-style-type: none"> • Disposal of hazardous waste generated from fuel and hydraulic fluids, other hydrocarbons and chemical herbicides • Disposal of non-hazardous waste generated from tools and supplies containers and construction/maintenance material remaining on site