

Tier 2
ORC-2PR_810-D-11
Revision Original
Page 1 of 4

Environmental Management System

Procedural Documentation Debris Management

1.0 Purpose:

The principal goals of the Debris Management (DM) Strategy are to:

- maintain a land base that will produce caribou habitat with a continuous natural canopy
- minimize the reductions in productive forest land base
- utilize debris for bio-energy feedstock (*bio-fuel*) where markets allow
- respect social considerations by reducing *visual impacts* where possible
- successfully and effectively regenerate in accordance with Silvicultural Ground Rules (SGRs).

2.0 Scope:

This procedure is to be applied to all current harvest operations, commencing April 1, 2015. The following procedures will be applied to all legacy harvest areas where deemed necessary by the Silviculture Forester through Debris Management surveys.

3.0 Responsibilities:

3.1 ORC Operations Forester or Designates

3.2 ORC Silviculture Forester or Designates

3.3 All Contractors and Sub-Contractors for ORC and OLL

3.4 Overlapping License Holder or Designates (OLL)

Each Overlapping License (OLL) / harvest contractor is responsible for achieving appropriate renewal ready standards during, and upon completion of, all harvest operations activities. This will be accomplished through: first, being mindful of potential deleterious impacts and remediation at all stages of harvest operations; and second, utilizing recommended operational methods to achieve renewal ready states for various debris management scenarios, as outlined below.

4.0 Procedure

1) Current Full-Tree Delimiting Operations

CONTROLLED DOCUMENT *Users must ensure copy is current.*

Tier 2
ORC-2PR_810-D-11
Revision Original
Page 2 of 4

Environmental Management System

Procedural Documentation **Debris Management**

- a) **Roadside delimeter slash:** Will be piled into stacks and;
 - i) will not be situated on top of chipper pads during harvest operations
 - ii) will be piled into large (wherever possible) aerated stacks reducing debris occupied land base
- b) **Stacks:**
 - i) will not be compacted in any way
 - ii) will be kept free of mineral soil
 - iii) will be located a safe distance from other forest values (i.e. standing timber, advanced regeneration, structures)
 - iv) will be situated as close to the road as possible with an adequate firebreak from other burnable forest fuels

2) Current Chipping Operations - Upland sites

- a) **Reduce road-side volume by:**
 - i) carry back to cutover with skidders, each trip
 - ii) use debris for tertiary road construction, road bank stabilization, pit rehabilitation, etc.
- b) **Recommendations for Debris Pads:**
 - i) Piling
 - (1) debris will be pushed or bailed up into elongated piles and should not exceed 20 meters in length (i.e.: creating Fire fuel breaks)
 - (2) *Piles should be no more than 3m in height* – leaving enough room between piles for site preparation skidders to work
 - (3) depth of debris in between piles to be < 15cm
 - (4) if there is not enough room between piles for site preparation skidders to work, the debris will be cleared between the piles to the point of exposing the mineral soil
 - (5) piles are not to be pushed into areas of standing timber, advanced regeneration, or pockets of lowland organics
 - ii) Spreading
 - (1) depth of spread debris to be < 15cm
 - (2) debris not to be spread into areas of standing timber, advanced regeneration, or pockets of lowland organic soils
 - iii) Scalping or trenching
 - (1) should be created to a depth that exposes mineral soil
 - (2) spacing between scalps or trenches to average 2.5m
 - (3) trenches should be used in lower ground sites
 - (4) scalps and/or trenches may be used on high ground

3) Current Chipping Operations -Lowland Organics (Winter operations)

CONTROLLED DOCUMENT *Users must ensure copy is current.*

Tier 2
ORC-2PR_810-D-11
Revision Original
Page 3 of 4

Environmental Management System

Procedural Documentation **Debris Management**

- i) *no* carry back to cutover
 - ii) *no* spreading of debris onto/down roads and ditches
- b) Recommendations for Debris Pads:**
- i) Piling
 - (1) Debris will be pushed or bailed up into to elongated piles and should not exceed 20 meters in length (i.e.: creating Fire fuel breaks)
 - (1) *Piles should be no more than 3m in height*
 - (2) all reasonable efforts will be made to expose mosses, or snow layer between piles
 - (3) piles are not to be pushed into areas of standing timber or advanced regeneration
 - ii) Trenching
 - (1) trenches will be created only to the point of exposing the mosses or snow layer, depending on the site conditions at time of debris management activities
 - (2) spacing between trenches to average 2.5m
 - (3) trenches will be created so as not to pond or hold water
- 2) Legacy Delimber Slash (for silviculture contractor operations)**
- a) locate and categorize (through a *DM survey*) debris state, area of cover, depth of cover and access/operational implications within this scenario.
 - b) stratify as *treated or not treated* and *upland or lowland* to narrow appropriate site options
 - c) determine potential achievements, overall benefits and the resultant best course of action
 - d) if DM surveys determine remedial treatment to be the best course of action, sites will be targeted for piling and burning
- 3) Legacy Chipper Debris (for silviculture contractor operations)**
- a) locate and categorize (*DM survey*) debris state, area of cover, depth of cover and access/operational implications within this scenario
 - b) stratify as *treated or not treated* and *upland or lowland* to narrow appropriate site options
 - c) if DM surveys determine remedial treatment to be of benefit, sites will be targeted for piling or trenching or scalping
- 4) Monitoring:**
- a) block sign off maps to include a statement regarding the debris management strategy.
 - b) all Overlapping Licensees/contractors carrying out scheduled harvest activities will conduct debris management as recommended above to achieve an appropriate renewal ready state, and are responsible to report this work in a Harvest FOIP report.
- 5) Effectiveness Criteria:**
- a) existing SGR's and associated management plan objectives.

Tier 2
ORC-2PR_810-D-11
Revision Original
Page 4 of 4

Environmental Management System

Procedural Documentation Debris Management

References

Document / Form	I.D.#

Revisions

#	Purpose	Prepared by	Approved by	Date
N/A	Original version	EMS Team	Chantal Alkins Certification Coordinator	November 23, 2016
A				
B				
C				
D				
E				

Tier 2
ORC-2PR_810-D-11
Revision Original
Page 5 of 4

Environmental Management System

Procedural Documentation **Debris Management**
