

Implementing Best Management Practices for Timber Harvest Operations

from the Alaska Forest Resources and
Practices Regulations

January 2005

DIVISION OF FORESTRY
DEPARTMENT OF NATURAL RESOURCES

PURPLE BOOK, Page I

TABLE OF CONTENTS

360(c)(4) Cable Yarding Adjacent to Riparian Areas	21	Page 2
350(a) Minimize Disturbance Adjacent to Surface Waters	24	
360(a)&(b) Cable Yarding Adjacent to Surface Waters	28	
- Riparian related BMPs are applicable if a harvest activity is adjacent to a classified waterbody, or if a harvest activity occurs within the associated riparian area.		Page 5
Private land		Page 10
Private forest land adjacent to the following types of waters and located in Region I is subject to the riparian protection standards established in this subsection. [AS 41.17.116(a)]		
State land		Page 10
(A) harvest of timber may not be undertaken within 100 feet immediately adjacent to an anadromous or high value resident fish water body;		

State land

Page 11

(Same as Region I, previous page)
(A) harvest of timber may not be undertaken within 100 feet immediately adjacent to an anadromous or high value resident fish water body;

Private land

Page 12

Private forest land adjacent to the following types of waters and located in Region III is subject to the riparian protection standards established in this subsection. [AS 41.17.116(b)]

Page 16

- To protect the riparian area immediately adjacent to a stream so the vegetation can continue to function as a filter strip and remove sediment carried by runoff from the road.
- To protect the riparian area immediately adjacent to a stream so the vegetation can continue to function as a filter strip and remove sediment carried by runoff from a road or harvest unit.
- The road design should include drainage features that minimize or direct road runoff away from the adjacent stream, and effectively control sediment.
- Did timber slide or roll into the adjacent stream?
 - Evidence that a tree slid butt first into a stream after being felled: a gradually deepening scar that ends at the stream with a chunk taken out of the stream bank.

Page 18

Page 18

Page 19

Page 20

Amount of timber slid or rolled downhill into adjacent stream channels:

OBJECTIVES

Page 21

- To avoid creating conditions conducive to soil erosion adjacent to surface waters.

REQUIREMENTS

Page 21

- Minimize soil disturbance adjacent to other surface waters.

TIMBER HARVESTING

Page 23

11 AAC 95.345(a)&(b). LANDING LOCATION, CONSTRUCTION & OPERATION APPLICABILITY

OBJECTIVES

- To prevent deposition of logs and debris in surface waters. The large amount of waste and debris generated at a landing can end up in adjacent surface water if the landing is located too close, or on a hillside immediately above the water body.

11 AAC 95.350(a). BANK INTEGRITY – AVOID DISTURBING VEGETATION ADJACENT TO SURFACE WATERS

Page 24

- Vegetation adjacent to surface and standing waters.

REQUIREMENTS

Page 25

- Minimize disturbance of residual trees and understory vegetation adjacent to surface and standing waters.

NOTES

- Were logs yarded across or was equipment operated in the area adjacent to a stream?
- Were there other ways the setting could have been harvested that would have avoided the need to yard or operate equipment adjacent to a stream?

N/A No yarding was conducted adjacent to a stream.

Page 25

11 AAC 95.360(a&b). CABLE YARDING - YARDING ADJACENT TO SURFACE WATERS

Page 28

APPLICABILITY

- Applies when yarding adjacent to all surface waters.
- To prevent erosion of adjacent cut slopes or roadbed material. As flows increase, so does their capability to cause erosion, especially on steeper grades.
- Low spots in the terrain or intervening ridges can be used to intercept discharges from the drainage relief structure, allowing suspended sediment to filter or settle out before reaching adjacent surface waters.
- Is the ditch blocked on the downhill side of the entrance to a cross drain? Head walls should extend across the ditch and be at least as high as the adjacent road surface.

Page 36

Page 39

Page 49