

# Pre-Operations Report

**Operation Name:** Wiley Coyote  
**County:** Tillamook  
**Management Basin:** Upper Salmonberry

**Table 1. Operation Areas, Types and Acres**

Area	Type of Operation	Gross Acres	Net Acres
1	Heavy Partial Cut	107	87
<b>Total</b>	<b>Partial Cut Harvest</b>	<b>107</b>	<b>87</b>
2	Modified Clearcut	47	34
<b>Total</b>	<b>Regeneration Harvest</b>	<b>47</b>	<b>34</b>

## **I. PHYSICAL DESCRIPTION OF OPERATION AREA:**

Slopes have a varied aspect and range from 10 to 50%. Elevations range from 1900 to 2400 feet. The major soil types are Killam and Grindstone. The sale extends from the ridge tops to the lower slopes adjacent to the Salmonberry River.

The sale is located on the moderate slopes above the Salmonberry River and below the Wheeler Cutoff Road. There are only a few steep slopes in the sale, and they are associated with the draw in the middle of the sale area. The sale is underlain by igneous origin rocks of the Tillamook Volcanics Formation in the northern portion of the sale area and sedimentary origin rocks of Basaltic Sandstone (*per Dave Michael, Northwest Oregon Area Geotechnical Specialist*).

## **II. CURRENT STAND CONDITION:**

The entire sale area has been inventoried using the Stand Level Inventory (SLI) procedure and the stands have been classified as UDS.

Both areas are composed of Douglas-fir with scattered hemlock and red alder. Some *Phellinus weirii* is present, however treatment is not planned.

The understory is vine maple and sword fern.

SLI data shows that there are approximately 4 snags per acre and 2,200 ft<sup>3</sup>/acre of DWD. Most of the snags and DWD are classes 3, 4 and 5.

**Table 2. Stand Inventory Information**

Area	Prescription	Stand ID <sup>1</sup>	Species	Age <sup>2</sup>	DBH	BA	TPA	SDI	Net Acres <sup>3</sup>
1	PC-H <sup>4</sup>	7329	DF	41-54	18	238	140	69	87
		<i>Target<sup>5</sup></i>			28	90	21	17	87
2	MC <sup>4</sup>	7329	DF		18	238	140	69	34

<sup>1</sup> The source of stand inventory information is from SLI inventory grown forward to 2006.

<sup>2</sup> Actual measured breast height ages are shown unless labeled "est."

<sup>3</sup> The acres are based on GIS and exclude existing and planned roads, stream buffers, green tree retention areas, and non-thinnable areas.

<sup>4</sup> PC-H is Heavy Partial Cut, MC is Modified Clearcut.

<sup>5</sup> The Target row for partial cut areas identifies expected stand characteristics (DBH, BA, TPA and SDI) after harvesting has been completed.

### III. DESIRED FUTURE CONDITION/VISION:

According to the Forest Grove District's landscape design for the Wheeler basin, the desired future condition (DFC) for Area 1 is 100% LYR, and the DFC for Area 2 is 100% General.

The vision for Area 1 is to develop a layered stand as quickly as possible providing habitat for older forest dependant wildlife species. This will require a heavy partial cut followed by an interplant of shade tolerant conifer species. After snag creation there will be approximately 20 large overstory trees per acre. Maintaining an open overstory canopy will encourage development of the conifer understory resulting in a layered stand in approximately 20 to 30 years.

Area 2 is a modified clearcut. The vision for this area is to establish a vigorous plantation for timber production using whatever management tools might be necessary. This area will be clearcut again in 50 to 60 years. At the time of the second modified clearcut, it is anticipated the stand will be in the UDS condition.

**Table 3. Stand Structure Information**

Area	Prescription	Stand ID	Current	Post Harvest <sup>1</sup>	Desired Future	Net Acres
1	PC-H	7329	UDS	UDS	LYR	87
2	MC	7329	UDS	REG	GEN	34

<sup>1</sup> The stand is expected to develop into this condition in the five to ten years after this operation is completed, except in REG stands which occur after harvest.

### IV. PROPOSED MANAGEMENT PRESCRIPTION AND PATHWAY:

#### **Partial Cut - Heavy:**

Area 1 is a PC- H. The target SDI is approximately 17.

Douglas-fir will be selected for harvest. All other species will be reserved. Area 1 will be thinned to a target basal area of 80 square feet. The average DBH of

the residual stand will be approximately 28 inches. Residual trees will be the largest DBH and height. All trees less than 8 inches shall not count toward the target basal area.

All existing snags which do not present a safety hazard, and down woody debris of all decay classes shall be retained. Additional DWD recruitment is expected through felled snags, tree topping and logging slash. One to Two snags per acre will be created. Some of the large overstory trees may provide future snags and down wood as the understory develops.

Following harvest, the area will be reviewed to determine if site preparation is needed before interplanting shade tolerant conifers. The understory plantation will be managed using what ever tools might be necessary to promote the growth of another layer of vegetation and move the stand structure from UDS to LYR.

**Modified Clearcut:**

Area 2 is a MC.

Hemlock will be reserved from harvest to provide for green tree retention. There will be approximately 12 acres of stream buffers providing additional green tree retention. Two trees per acre shall be topped in Area 2 to create hard snags. Some of the trees left within the unit and within the stream buffers will be available for snag creation. The trees chosen for topping will have a DBH of at least 18 inches, and be at least 60 feet in height. All existing DWD will be reserved and additional DWD will be added through logging slash, and tree topping.

Following harvest, the area will be reviewed to determine if site preparation is needed. The growth of the new plantation will be monitored and will be treated using whatever management tools are necessary to promote a healthy stand. The new stand will be harvested again in 50 to 60 years.

**V. ESTIMATED TIMBER AND REVENUE INFORMATION:**

**Table 4. Timber and Revenue**

Ownership		Sale Type	
BOF	CSL	Cash	Recovery
100%	%		X
Planned Quarter: 4			

	Conifer	Hardwood	Total
Net Volume (MBF)	2,500		
Stumpage Value (\$/MBF)*	\$350		
Estimated Gross Value			\$875,000
		Project Costs:	\$52,000
		Estimated Net Value:	\$823,000

\*Combined Douglas-fir and hemlock stumpage values

**VI. HARVESTING AND ACCESS CONSIDERATIONS:**

The sale areas are accessed via the Salmonberry Road. This road has a crushed rock surface.

Approximately 0.75 miles of road will be constructed to provide access to cable landing locations. New construction is located on a midslope. One new spur will cross the upper reaches of a small Type F stream. A temporary fish passage structure will be installed, and will be removed when reforestation activities are completed.

All haul roads will have high quality crushed rock or pit run surfacing. Roads will provide access to all timber within the sale area and allow for logging methods and hauling which will minimize impacts to soils, residual timber, streams, and riparian areas.

Estimated cost of project work is \$52,000.

Area 1 is 90% cable and 10% ground yarding. Area 2 is 75% cable and 25% ground yarding.

**Table 5. Transportation Management Summary (Miles)**

Activity	Mainline	Collector	Rocked Spur	Dirt Spur
Construction	0	0	0.75	0
Improvement	0	0	0	0
Maintenance	0	3.5	2.75	0
Closure/Vacation	0	0	0	0

## **VII. AQUATIC RESOURCES AND WATER QUALITY:**

The Salmonberry River, a large type F stream, flows adjacent to the sale. There is one small unnamed type F streams within the sale. There are several unnamed small perennial and seasonal Type N streams within both sale areas. All streams flow into the Salmonberry River.

During sale layout, all Type N streams will be field verified as to size, type, locations, and/or source. The Type F streams have been verified by ODF&W.

Riparian area stand types along these streams are a mix of conifer and hardwood.

Stream buffers within harvest unit boundaries will be managed according to FMP Riparian Strategies. The riparian areas will be reviewed during sale layout for current stand conditions and/or operational constraints for implementing FMP strategies.

Seasonal hauling restrictions will be applied in order to protect the water quality on all streams along the haul route. Restrictions may include limiting the number of loads hauled per day, not hauling during periods of heavy moisture, or having an alternate haul route.

ODFW fish biologist Dave Plawman will assess the potential for stream enhancement projects on the Salmonberry River. Projects to incorporate wood placement in streams will be accomplished concurrent with harvest activities.

In order to protect water quality during active operations, a variety of methods will be used to prevent sediment from entering live streams. These methods include (but are not limited to) maintaining culverts and other road drainage structures, using sediment control devices in road ditches when necessary, and seasonal restrictions on logging and hauling operations. Culvert installment and replacement in live streams will be conducted between August 15 and September 15. Operations outside of this period will be reviewed with ODFW.

## **VIII. WILDLIFE AND T&E SPECIES CONSIDERATIONS:**

The sale areas have been reviewed with the ODF Northwest Oregon Area Biologist (Area Biologist).

Surveys for northern spotted owls were conducted in 2006 due to the presence of potentially suitable spotted owl habitat within and adjacent to the timber sale area. Wiley Coyote was surveyed for spotted owls three times in 2006 with no responses, and the second year of survey will be completed in 2007. All surveys were/will be conducted in accordance with USFWS protocol.

Surveys for marbled murrelets are not required, due to the absence of potentially suitable habitat within the sale area. The District T&E Coordinator made the determination that the sale area is non-suitable habitat for marbled murrelets. The ODF wildlife biologist for the NW Oregon Area reviewed and approved this determination.

This operation does not involve an activity that is listed in the National Marine Fisheries Service (NMFS) adopted rules under Section 4(d) of the Endangered Species Act. Neither the sale area nor the haul route is in close proximity to a stream with listed fish.

The sale areas were checked against the Oregon Natural Heritage Program (ONHP) database of known listed plant locations, as well as against local records in the Land Management Classification System (LMCS). No listed plant records were identified within or adjacent to the sale areas.

#### **IX. SLOPE STABILITY AND GEOTECHNICAL ISSUES:**

The few steep slopes associated with the draw appear to have low down slope risk to water and fish habitat. The initial risk assessment by the geotechnical specialist for the sale is low. A Field visit by the geotechnical specialist is not expected to be needed, but the geotechnical specialist will be consulted during sale layout if slope stability concerns are encountered (*per Dave Michael, Northwest Oregon Area Geotechnical Specialist*).

#### **X. RECREATION RESOURCES:**

The sale is designated as Non-Motorized in the Tillamook State Forest Comprehensive Recreation Plan (1993). The District Recreation Coordinator will review this sale and provide comments on the planned operation if concerns are identified.

#### **XI. CULTURAL RESOURCES:**

The sale area was checked against the Tillamook State Forest Cultural Resource Inventory GIS data. This data source identified one cultural site adjacent to the sale area (within 200 feet).

The resource is described as:

- “Wheeler Pond Reload” (Class 3 – No Protection Required)

The location of the cultural resource site is across Ellis Road southwest of the sale area and should not be impacted by harvest or hauling activity. The district will consult the Public Use Coordinator (ODF Salem Staff) for appropriate protection measures of this site.

**XII. SCENIC RESOURCES:**

The sale has a visual classification of Level 3, low sensitivity. No scenic impact is expected.

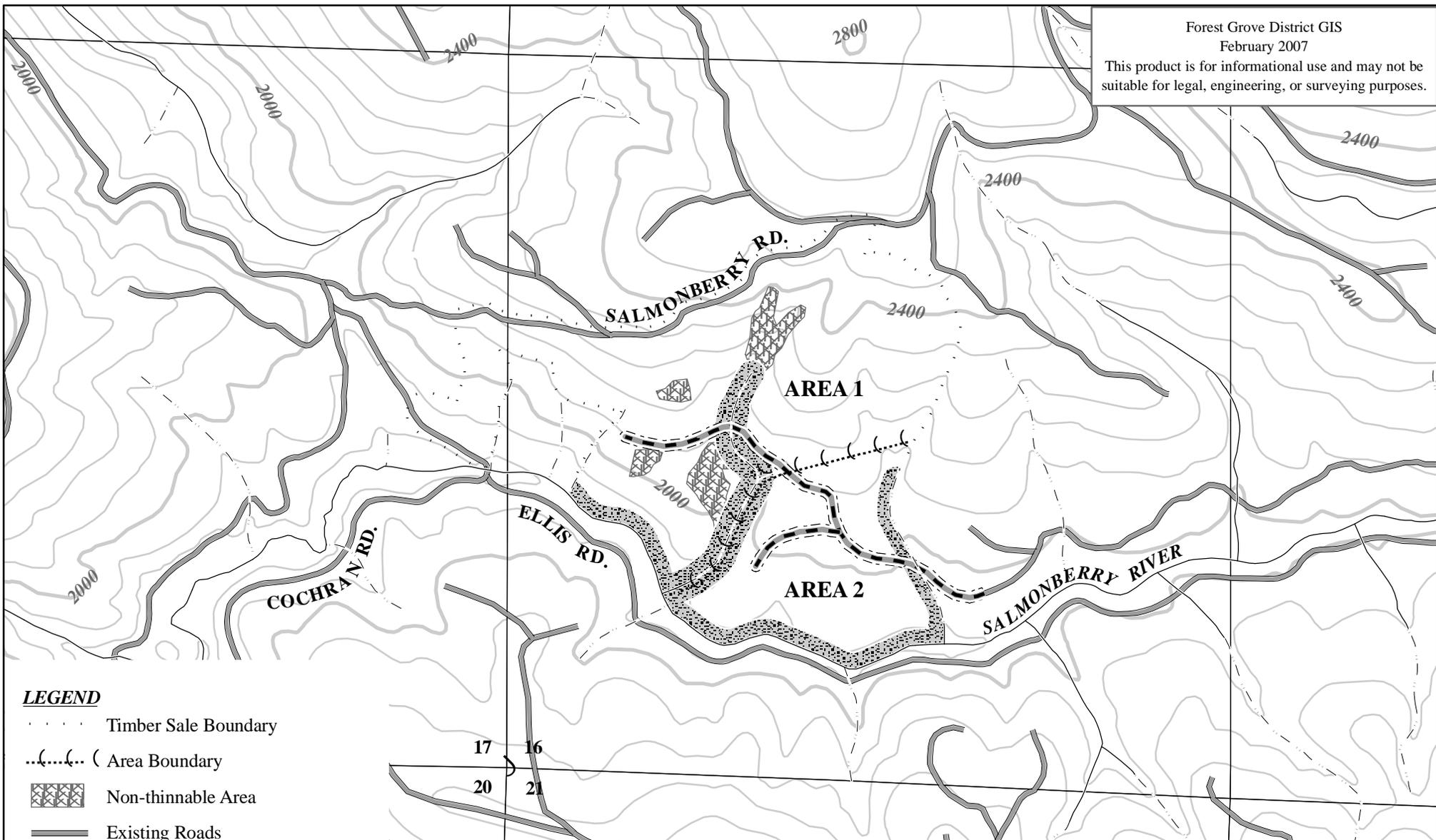
**XIII. OTHER RESOURCE CONSIDERATIONS:**

Property lines are not involved in this sale.

All known survey corners and witness trees shall be protected from damage during any operations.

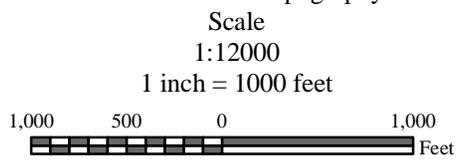
**XIV. LAND MANAGEMENT CLASSIFICATION SUMMARY:**

Area 1 contains Focused Stewardship, Aquatic and Riparian Habitat Subclass, due to the presence of perennial streams within the sale areas. See Section VII, Aquatic Resources and Water Quality, for the management guidelines to be utilized.



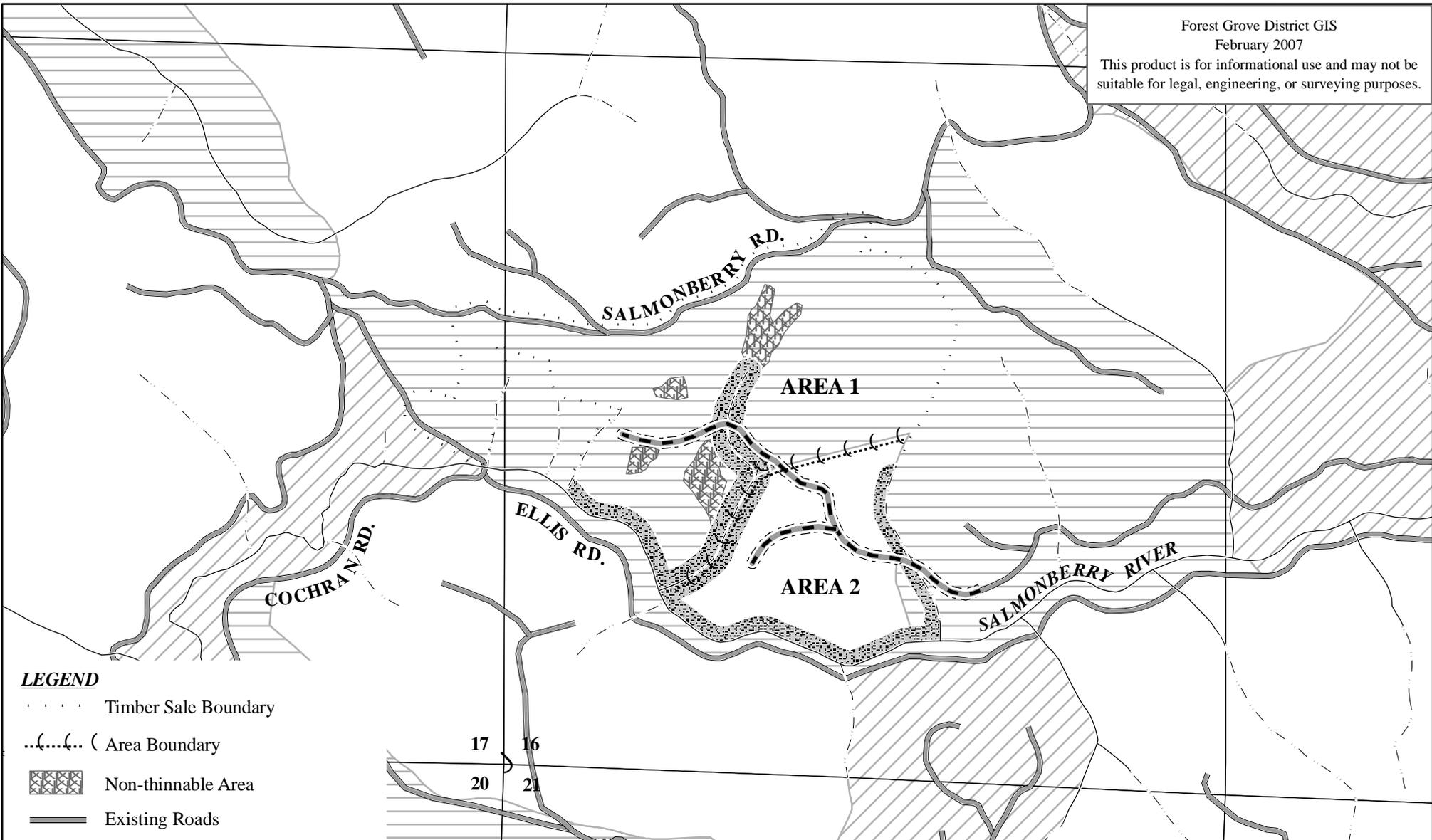
- LEGEND**
- ..... Timber Sale Boundary
  - ...(-...(- Area Boundary
  - ▣▣▣ Non-thinnable Area
  - Existing Roads
  - Road Construction
  - - - Road Construction Right-of-Way
  - Perennial Type F Stream
  - - Perennial Type N Stream
  - ▣▣▣ Stream Buffer
  - 400' Contour Intervals
  - 80' Contour Lines

FY 2008  
 WILEY COYOTE  
 PORTIONS OF SECTIONS 16 & 17, T03N, R06W, W.M.  
 TILLAMOOK COUNTY, OREGON  
 Attachment A: Topography



**3**

APPROXIMATE NET ACREAGE	
AREA 1	87 ACRES (PC-H)
AREA 2	34 ACRES (MC)
<b>TOTAL</b>	<b>121 ACRES</b>



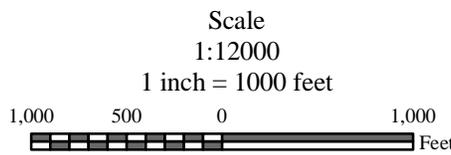
**LEGEND**

- ..... Timber Sale Boundary
- ...(-...(- Area Boundary
- ▣ Non-thinnable Area
- Existing Roads
- Road Construction
- - - Road Construction Right-of-Way
- Perennial Type F Stream
- - Perennial Type N Stream
- ▣ Stream Buffer
- DFC Stand Type
- ▣ Layered
- ▣ Older Forest Structure

17 16  
20 21

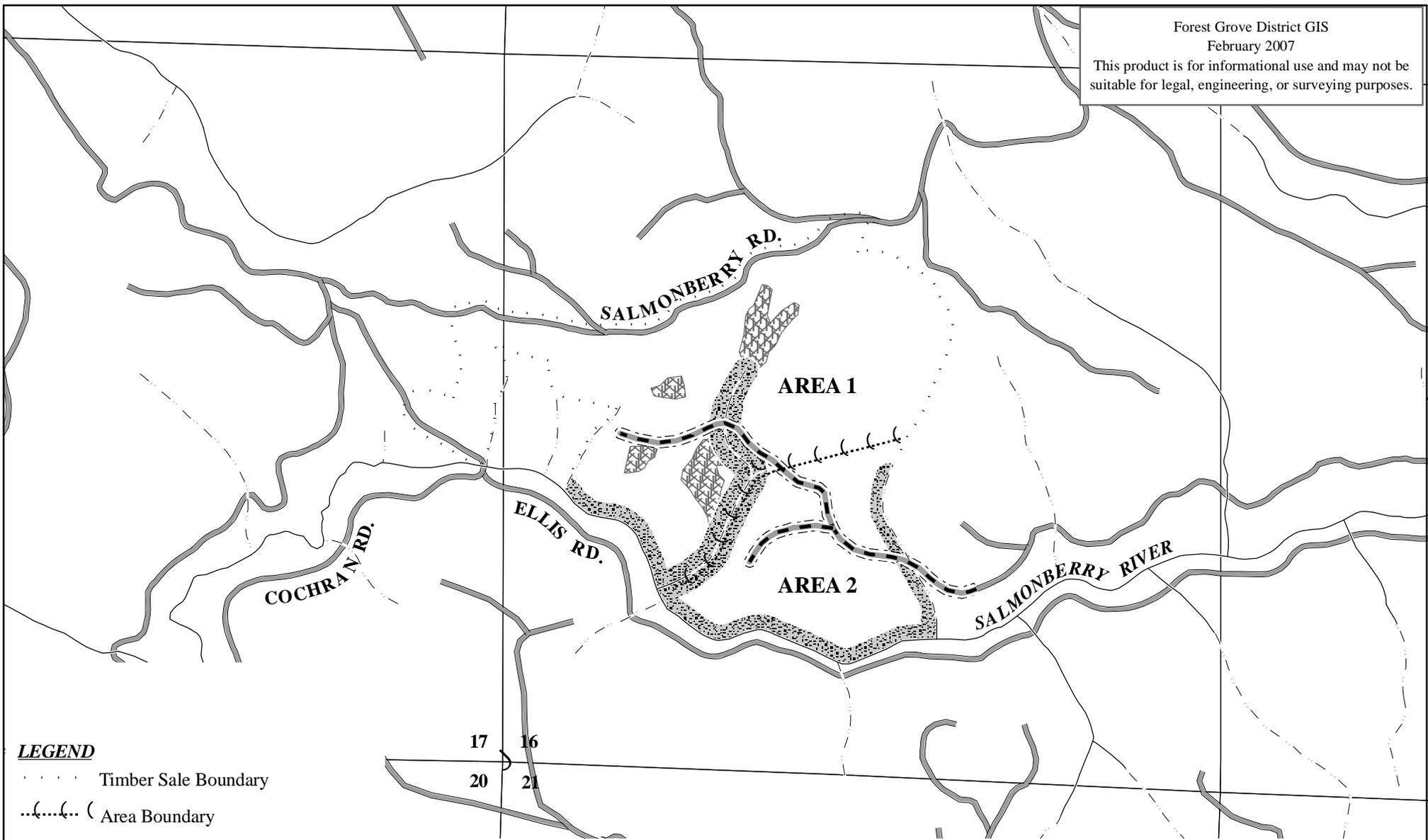
FY 2008  
WILEY COYOTE  
PORTIONS OF SECTIONS 16 & 17, T03N, R06W, W.M.  
TILLAMOOK COUNTY, OREGON

Attachment B: Desired Future Condition

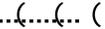


**3**

APPROXIMATE NET ACREAGE	
AREA 1	87 ACRES (PC-H)
AREA 2	34 ACRES (MC)
<b>TOTAL</b>	<b>121 ACRES</b>



**LEGEND**

-  Timber Sale Boundary
-  Area Boundary
-  Non-thinnable Area
-  Existing Roads
-  Road Construction
-  Road Construction Right-of-Way
-  Perennial Type F Stream
-  Perennial Type N Stream
-  Stream Buffer

17 16  
 20 21

FY 2008  
 WILEY COYOTE  
 PORTIONS OF SECTIONS 16 & 17, T03N, R06W, W.M.  
 TILLAMOOK COUNTY, OREGON

Attachment C: Key Resources

Scale  
 1:12000  
 1 inch = 1000 feet



**3**

APPROXIMATE NET ACREAGE	
AREA 1	87 ACRES (PC-H)
AREA 2	34 ACRES (MC)
<b>TOTAL</b>	<b>121 ACRES</b>