

Pre-Operations Report

Operation Name: Van Salmon
County: Tillamook
Management Basin: Upper Salmonberry

Table 1. Operation Areas, Types and Acres

Area	Type of Operation	Gross Acres	Net Acres
1	Modified Clearcut	106	97
2	Modified Clearcut	89	82
Total	Regeneration Harvest	195	179

I. PHYSICAL DESCRIPTION OF OPERATION AREA:

The sale is located on moderate side-slopes along the Salmonberry River and the North Fork of the Salmonberry River.

Slope aspects are east and west within the sale area. Slopes range from 0% to 90% but are predominantly 10% to 50%. Elevations range from 2000 to 2700 feet. The soil types are primarily Jewel and Grindstone.

II. CURRENT STAND CONDITION:

Approximately two-thirds of the stands are composed primarily of 65 year old Douglas-fir, with small amounts of noble fir and western hemlock scattered throughout. The other third is composed of 45 year old Douglas-fir. Currently, SLI data is only available for Area 1. The stand in Area 1 has been classified as UDS (see Table 3). The current stand structure of the unmeasured stands in Area 2 is estimated to be CSC, according to SLI expanded data. Stand classification plots will be taken prior to February 2008 to confirm that the unmeasured stands in the clearcut units are not complex structure (LYR or OFS).

The more prominent understory species are sword fern, vanilla leaf, dwarf Oregon-grape, and salal. The measured data within the sale area suggests a lack of hard snags and DWD, according to target amounts provided in the Forest Management Plan (FMP). Currently, there are no snags greater than 15 inches present in decay class 1 and 2. Down wood in decay class 1 and 2 averages 210ft³/acre and 1,810ft³/acre in decay class 3 and 4. The average tree size is 15 inches DBH. Small amounts of Phellinus has been observed but are not considered extensive enough to warrant treatment at this time.

Table 2. Stand Inventory Information

Area	Prescription	Stand ID ¹	Species	Age	DBH	BA	TPA	SDI	Net Acres ²
1	MC ³	7346	DF	45-65	15	212	165	55	97
		<i>Target</i> ⁴	<i>REG</i>						
2	MC ³	7317*	DF	45-65	17	215	136	53	19
		7324*	DF	45-65	17	215	136	53	23
		7325*	DF, WH	45-65	16	203	146	51	40
		<i>Target</i> ⁴	<i>REG</i>						

¹ The source of stand inventory information is from SLI inventory grown forward to 2007. Stand ID's shown with a (*) are unmeasured stands, and the source of inventory information for these stands is expanded SLI data.

² The acres are based on GIS and exclude existing and planned roads, stream buffers, and green tree retention areas.

³ MC is Modified Clearcut.

⁴ 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:

Areas 1 and 2 will both be modified clearcuts. This operation will convert these stands to REG structure in the short term. According to the Forest Grove District's landscape design, the desired future condition (DFC) for Area 1 and Area 2 is 100% General.

After harvest, both areas will be planted and managed to develop into a vigorously growing stand. In the long term, these stands will be managed for timber production.

Table 3. Stand Structure Information

Area	Prescription	Stand ID	Current	Post Harvest ¹	Desired Future	Acres
1	MC	7346	UDS	REG	GEN	97
2	MC	7317	CSC ²	REG	GEN	19
		7324	CSC ²	REG	GEN	23
		7325	CSC ²	REG	GEN	40

¹ The stand is expected to develop into this condition in the five to ten years after this operation is completed.

² Current stand condition is based on expanded data; see discussion above.

IV. PROPOSED MANAGEMENT PRESCRIPTION AND PATHWAY:

Areas 1 & 2: Modified Clearcut

Areas 1 & 2 will be replanted with Douglas-fir. Minor amounts of other conifer species will be planted to provide some biological diversity to the new stand. The newly established plantation will be scheduled for pre-commercial thinning at approximately age 15 and commercial thinning at approximately age 40 before the next modified clearcut harvest at age 60.

Area 1 has many attributes that make it a good candidate for a prescribed burn: topography, road location, and adjacent stand types. A broadcast burn is the preferred method of site preparation for Area 1. Mechanical slash manipulation will be used to site-prepare Area 2. Slash loading should not be significant in either area, but some slash manipulation may be required in order to create planting spots.

An average of 9 green trees per acre will be left. Wildlife tree selection and location will be done in a manner to facilitate burning and vegetation control. Existing snags determined not to be a safety hazard will be retained and any felled snags will be left for down wood. Across both sale areas, two snags per acre will be created by topping. These trees will be selected from residual wildlife trees post harvest and must be a minimum 18 inches DBH and 60 feet tall.

Felling of all non-merchantable stems (stems less than 8 inches DBH) will be required to promote a healthy replacement stand.

All existing DWD will be reserved in the sale areas. Additional DWD recruitment is expected through mortality, windthrow of residual trees, felled snags, tree topping, cull log segments and logging slash. Logging operations are anticipated to generate 500ft³/acre from slash accumulation immediately post harvest.

V. ESTIMATED TIMBER AND REVENUE OUTPUTS:

Table 4. Timber and Revenue

Ownership		Sale Type	
BOF	CSL	Cash	Recovery
100%	0%		X
Planned Quarter:		3	

	Conifer	Hardwood	Total
Net Volume (MBF)	7,200		7,200
Stumpage Value (\$/MBF)	\$330		
Estimated Gross Value	\$2,376,000		\$2,376,000
		Project Costs:	\$91,000
		Estimated Net Value:	\$2,285,000

VI. HARVESTING AND ACCESS CONSIDERATIONS:

Areas 1 and 2 are accessed from highway 26, on the Salmonberry Road, to Section 10 Road, to Ellis Road, and reconnecting onto the Salmonberry Road again. The access is through ODF ownership. All portions of this route are all weather, and surfaced with crushed rock.

Approximately 1.3 mile of road will be constructed in order to provide access to landing locations. New construction is limited to mostly ridgetops and gentle to moderate sideslopes. Proposed roads should not involve any stream crossings.

The rock will be obtained from a pitrun rock source along the Salmonback Road.

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.

Following harvest on each setting during logging operations, roads and skid trails within the sale areas will be evaluated for closure.

Estimated cost of project work is \$91,000.

The operation will be approximately 55% cable yarding and 45% ground based yarding.

Table 5. Transportation Management Summary (Miles)

Activity	Mainline	Collector	Rocked Spur	Dirt Spur
Construction	0	0	1.3	0
Improvement	0	0	0	0
Maintenance	0	8.8	1.3	0
Closure/Vacation	0	0	0	0

VII. AQUATIC RESOURCES AND WATER QUALITY:

The two small type N, perennial streams contained in Area 1 are tributaries to the Salmonberry River (a large Type-F).

The GIS stream layer shows a small Type-F stream and a perennial stream which are tributaries to the North Fork of the Salmonberry River (a large Type-F). Both of these streams are adjacent to Area 2 and will be posted outside the timber sale area. The small, Type F stream in Area 2 have not been verified for fish presence. Oregon Department of Fish and Wildlife (ODFW) will be requested to complete stream surveys before sale layout begins. Streams of unknown status will be treated as Type F until surveys are completed to verify fish usage or upon further analysis by a forester during sale layout. Riparian area stand types along these streams are a hardwood/conifer mix. FMP riparian protection standards will apply to the sale.

The riparian areas will be reviewed during sale layout for current stand conditions and/or operational constraints for implementing FMP strategies.

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 restrictions on logging and hauling operations between November 1st and March 31st. No culvert replacement or maintenance should be necessary for this sale. 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.

Surveys for northern spotted owls were conducted in 2006 and 2007 due to the presence of potentially suitable spotted owl habitat within and adjacent to the timber sale area. Van Salmon was surveyed for spotted owls three times in 2006 and three times in 2007 with no responses, and a third 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.

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:

This assessment is based on analysis of USGS 1:24,000 topographic maps.

There are isolated high landslide hazard locations in Area I. There are no high landslide hazard locations within Area II. Area I drains into unnamed tributaries of the Salmonberry River. Area II drains into unnamed tributaries of the North Fork of the Salmonberry River. The risk of landslides delivering directly to unnamed tributaries of the Salmonberry River or the North Fork of the Salmonberry River from the sale is low (*per Northwest Oregon Area Geotechnical Specialist*).

The geotechnical specialist will be consulted if evidence of recent landslide activity is identified during sale layout.

X. RECREATION RESOURCES:

The sale area is designated as Non-Motorized in the Tillamook State Forest Comprehensive Recreation Plan.

Recreational use common to this area includes hunting, and camping.

XI. CULTURAL RESOURCES:

The sale area and proposed road construction right-of-way were checked against the Tillamook State Forest Cultural Resource Inventory Database (GIS format). No cultural resource records were identified within the operation areas. There is a cultural resource site adjacent to the western boundary of Area 2. This site was once a Railroad Logging camp. Harvesting and hauling operations should have no impact on the site. The Public

Use Coordinator (ODF Salem Staff) will be consulted regarding potential protection measures.

**Adjacent refers to approximately one tree length from an operation area. For the purpose of this screen, a 200 foot buffer around the sale boundary and proposed road construction right-of-way was assessed for cultural resource locations.*

XII. SCENIC RESOURCES:

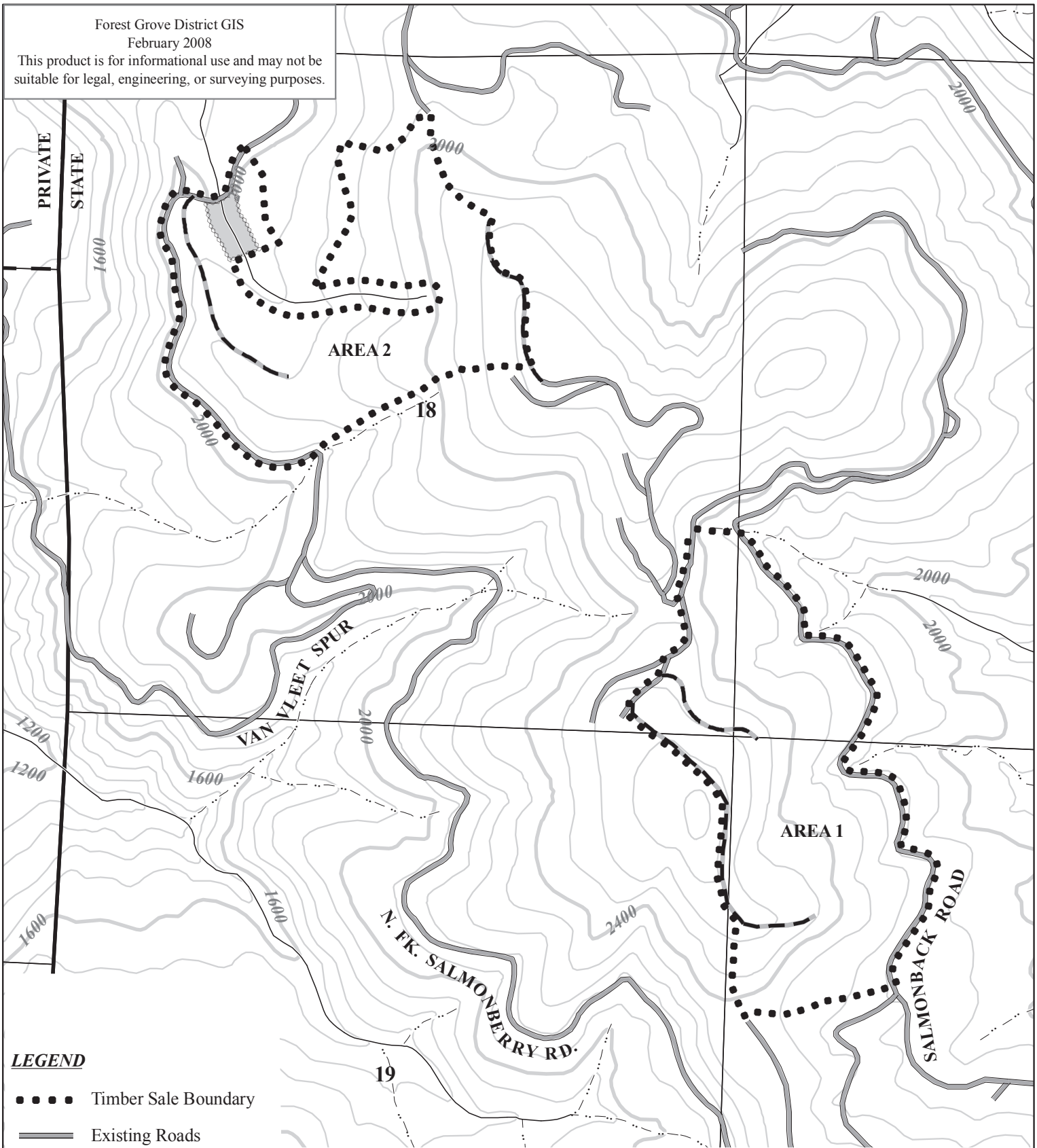
The sale has a visual classification of Level 3, low sensitivity.

XIII. OTHER RESOURCE CONSIDERATIONS:

No property survey is needed. No other resources of significance are involved. Any survey corners and witness trees shall be protected from damage during any operations.

XIV. LAND MANAGEMENT CLASSIFICATION SUMMARY:

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



LEGEND

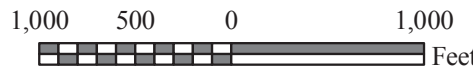
- Timber Sale Boundary
- Existing Roads
- Road Construction
- Perennial Type F Stream
- - - Perennial Type N Stream
- ▬▬ ODF Ownership
- 400' Contour Intervals
- 80' Contour Lines

FY 2009
 VAN SALMON
 PORTIONS OF SECTIONS 17, 18, 19, & 20, T03N, R06W, W.M.
 TILLAMOOK COUNTY, OREGON

Attachment A: Topography

Scale
 1:12000

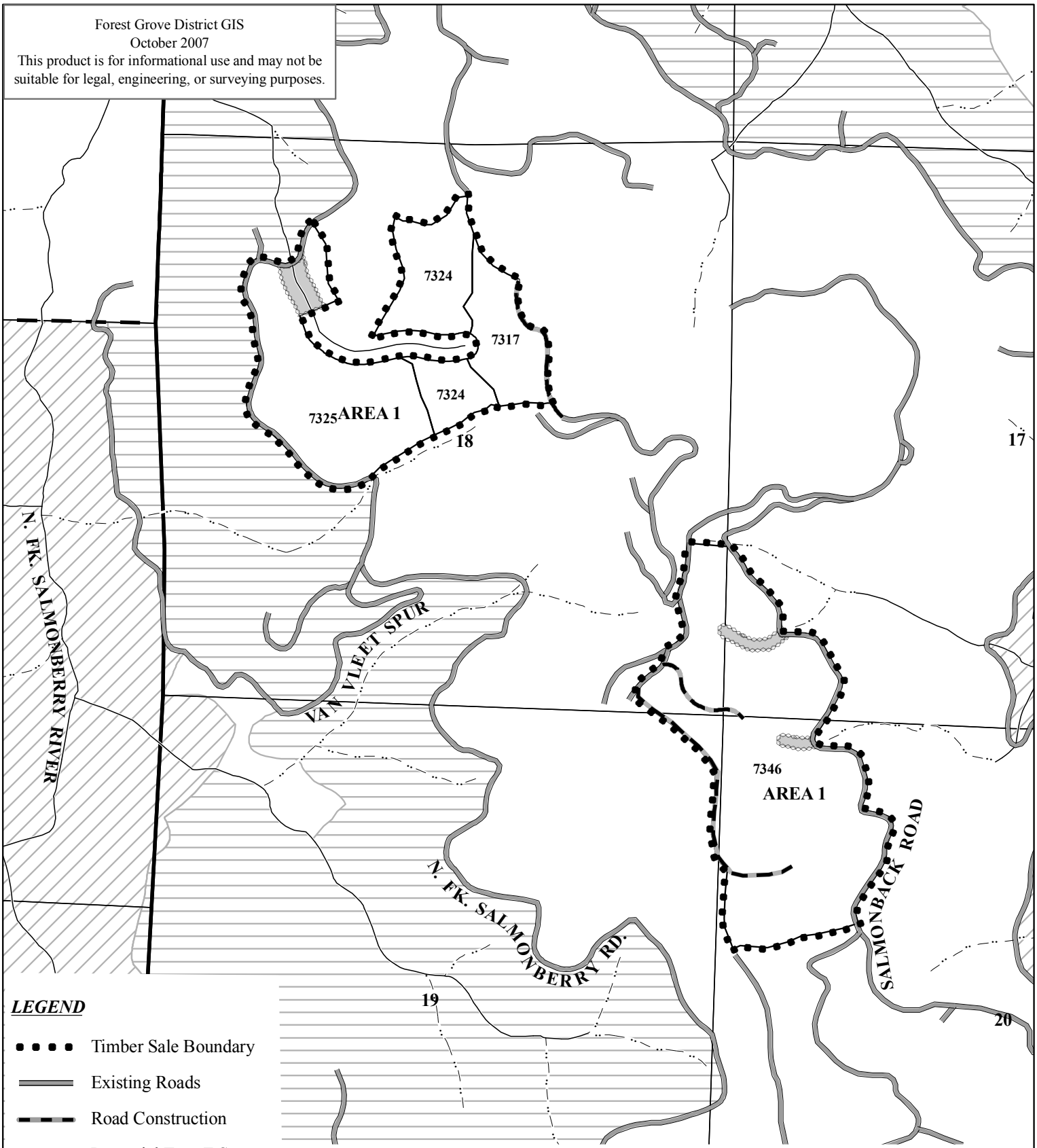
1 inch = 1000 feet



APPROXIMATE NET ACREAGE

AREA 1	97	ACRES (MC)
AREA 2	82	ACRES (MC)
TOTAL	179	ACRES

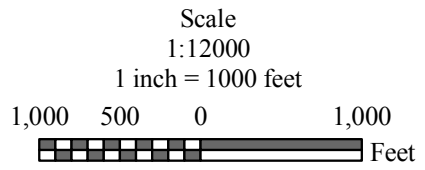
This product is for informational use and may not be suitable for legal, engineering, or surveying purposes.



LEGEND

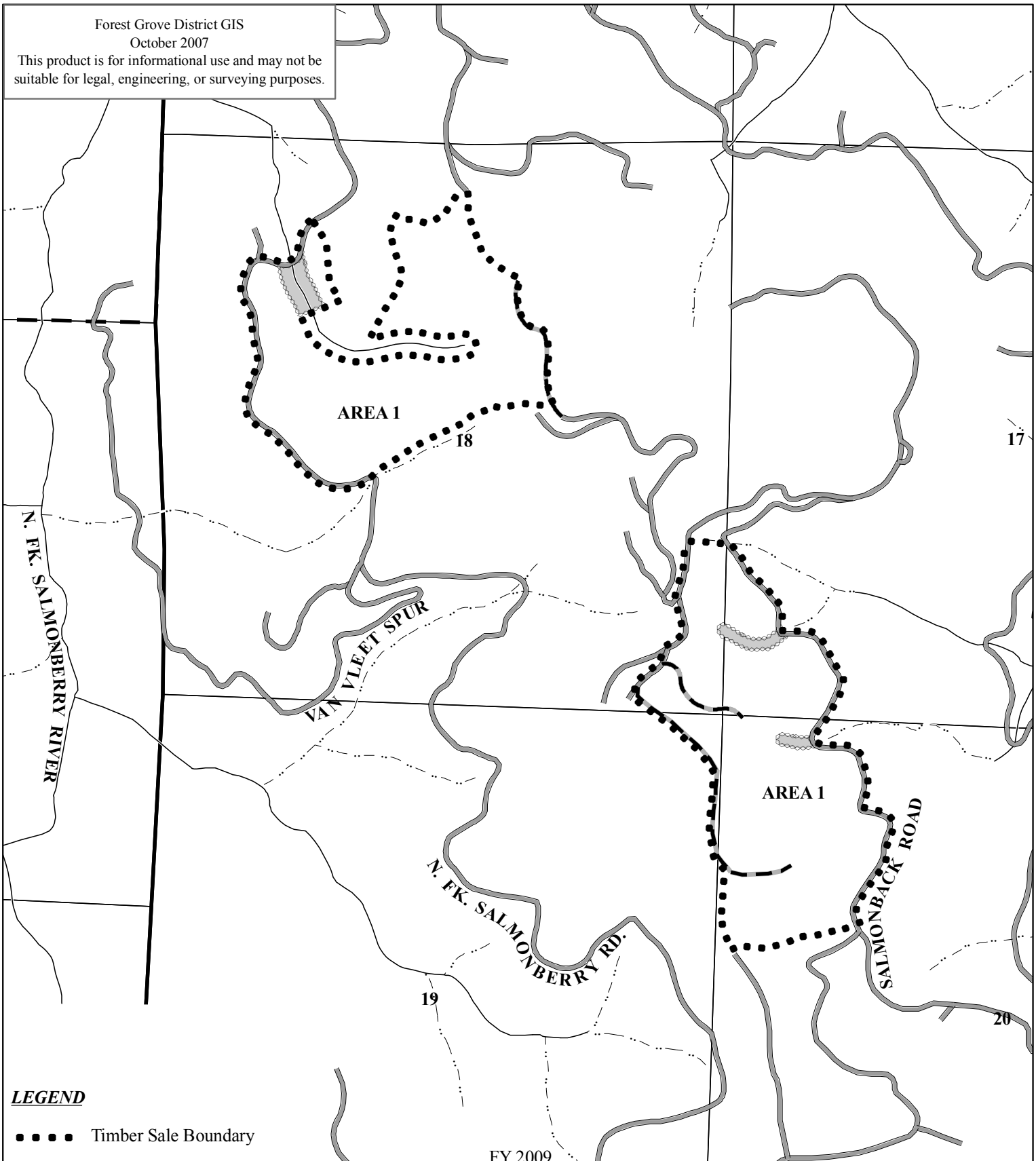
- ● ● ● Timber Sale Boundary
- Existing Roads
- - - Road Construction
- Perennial Type F Stream
- - - Perennial Type N Stream
- ||| ODF Ownership
- SLI Polygons (Stand ID#)
- DFC Stand Type
- ▭ Layered
- ▨ Older Forest Structure

FY 2009
VAN SALMON
PORTIONS OF SECTIONS 17, 18, 19, & 20, T03N, R06W, W.M.
TILLAMOOK COUNTY, OREGON
Attachment B: Desired Future Condition



APPROXIMATE NET ACREAGE

AREA 1	97	ACRES (MC)
AREA 2	83	ACRES (PC-M)
TOTAL	179	ACRES



LEGEND

- Timber Sale Boundary
- Existing Roads
- Road Construction
- Perennial Type F Stream
- - - Perennial Type N Stream
- ▬▬▬ ODF Ownership

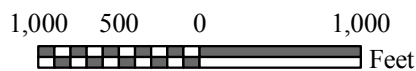
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 VAN SALMON
 PORTIONS OF SECTIONS 17, 18, 19, & 20, T03N, R06W, W.M.
 TILLAMOOK COUNTY, OREGON

Attachment C: Key Resources

Scale

1:12000

1 inch = 1000 feet



APPROXIMATE NET ACREAGE

AREA 1	97	ACRES (MC)
AREA 2	83	ACRES (PC-M)
TOTAL	179	ACRES