

Pre-Operations Report

Operation Name: Oly
County: Clatsop
Management Basin: McGregor

Table 1. Operation Areas, Types and Acres

Area	Harvest Type	Gross Acres	Net Acres
1	Modified Clearcut	105	93
2	Modified Clearcut	117	105
Total		222	198

I. PHYSICAL DESCRIPTION OF OPERATION AREA:

Slopes have a varied aspect and range from 0% to 90%, but are predominately 30% to 60%. Elevations range from 1,200 to 2,200 feet. Humbug and Neddona are the major soil types of the sale area. The sale area covers from ridge top to lower slopes.

II. CURRENT STAND CONDITION:

The entire sale was burned in the 1933 Wolf Creek fire. The majority of the sale was seeded between 1955 and 1975. Different sections of the sale were fertilized between 1991 and 2005, with the entire sale being fertilized at least once. Approximately 20 acres of the bottom of Area 1 was thinned in 1997 down to a target of 144 ft²/acre basal area (BA). Approximately 50 acres of Area 2 was thinned in 2002 down to a target of 100 ft²/acre BA.

Approximately 70% of the sale has been inventoried using the Stand Level Inventory (SLI) procedure. The remaining 30% of the sale has inventory data that was imputed from other similar stands (see Table 2). The stands are currently classified as Closed Single Canopy (CSC) and Understory (UDS) (see Table 3), with an understory of vine maple, sword fern, dwarf Oregon-grape, salal, huckleberry, and shade tolerant conifers. These low to moderate elevation mixed conifer stands within the sale range from 44-67 years old. Overstory species composition consists of Douglas-fir, hemlock, and alder.

Snags in various states of decay are present throughout both sale areas. According to SLI data, there is an average of approximately 5 hard snags per acre greater than or equal to 15" diameter at breast height (DBH), in decay classes 0-2. Approximately 119 ft³ per acre of class one and two down woody debris (DWD) is present in portions of the sale inventoried by SLI. Significant amounts of class three, four, and five DWD averaging 3,500-5,000 ft³ per acre are also present. Snag and DWD levels are unknown over the portion of the sale area not currently inventoried by SLI, but the area is considered to be very similar. SLI data for the McGregor Basin yields an average of 235 ft³ per acre of class one and two DWD, and 0.9 snags per acre (≥ 15 " DBH, Decay

Class 0-2). This information in conjunction with information from adjacent stands will be used for planning purposes.

Table 2. Stand Inventory Information

Area	Prescription	Stand ID ¹	Species	Age	DBH	BA	TPA	SDI	Acres ²
1	MC ³	7157*	DF	58	20	220	101	51	70
		7167	DF	56	18	143	83	35	23
		Target⁴	REG						
2	MC ³	7155	DF	57	20	272	135	64	57
		7176	DF	62	18	149	81	36	48
		Target⁴	REG						

¹The source of stand inventory information is SLI grown forward to 2008 for trees 8 inches and larger. For Stand ID's with an (*), the data was imputed from other stands.

²The acres are based on GIS and exclude roads, stream buffers, reserve areas, etc.

³PC-M is Moderate Partial Cut.

⁴The Target identifies expected stand characteristics (DBH, BA, TPA and SDI) after harvesting has been completed.

III. DESIRED FUTURE CONDITION/VISION:

According to the landscape design for the McGregor Basin (*Forest Grove District Implementation Plan, June 2009*), the desired future condition (DFC) for Areas 1 and 2 are for non-complex stands or “general” (GEN) stand structures.

Area 1 & 2

These areas will be managed primarily for the production of Douglas-fir. Stands will be converted to regeneration every 50-60 years. There is little evidence of disease, access, harvesting, riparian or other issues. This harvest, along with future entries, will be used as opportunities for maintaining species diversity, legacy trees, snags, and down woody components.

Table 3. Stand Structure Information

Area	Stand ID	Current	Post Harvest ¹	Desired Future	Acres
1	7157*	UDS	UDS	LYR	70
	7167	CSC	UDS	LYR	23
2	7155	UDS	REG	GEN	57
	7176	UDS	REG	GEN	48

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

IV. PROPOSED MANAGEMENT PRESCRIPTION AND PATHWAY:

Areas 1 & 2

These areas are modified clearcut harvests. In these stands, 5 to 6 green trees per acre will be retained. An additional 2 snags per acre will be created and 2 trees per acre used for down wood. Following harvest, site prep will be assessed to treat salal and vine maple. Another regeneration harvest will take place in approximately 60 years

post harvest. Anticipated management activities will include a pre-commercial thin at age 15 and a moderate partial cut at age 40.

It is anticipated that above average DWD will result from logging slash. This is due to defect and modified bucking practices (administered during harvest activity, not contract mandated). In addition, pre-harvest existing snags will account for more DWD post harvest (due to felling for safety reasons). Levels of Class 1 and 2 DWD will be brought up to the range mandated by the Northwest Oregon State Forests Management Plan (FMP) primarily through the two above mentioned processes. Additional amounts of DWD recruitment will result post harvest through natural recruitment processes.

V. ESTIMATED TIMBER AND REVENUE OUTPUTS:

Table 4. Timber and Revenue

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

	Conifer	Hardwood	Total
Net Volume (MBF)	8,300		8,300
Stumpage Value (\$/MBF)	200		
Estimated Gross Value	\$1,660,000		\$1,660,000
		Project Costs:	\$15,000
		Estimated Net Value:	\$1,645,000

VI. HARVESTING AND ACCESS CONSIDERATIONS:

The sale area is accessed via McGregor Road. This is an all-weather, crushed rock road. Haul route is entirely on ODF ownership. This is a total distance of approximately 5-7 miles from Highway 26. There are no gates along the route.

Approximately 1.0 mile of road will be constructed to provide access to cable landing locations. Estimated cost for road construction is \$15,000. New construction is limited to primarily ridge tops and short sections of moderate side slopes. New roads will not cross streams. Rock source will be stockpile at West Mac Pit.

Skid trails that are reopened for harvest operations within the sale areas will be blocked and closed post harvest.

The operation is approximately 70% cable based yarding and 30% ground based yarding. Lower hard to access slopes were originally planned to be yarded with a helicopter, however, these plans are now being evaluated for feasibility of longer cable settings with intermediate supports. The sale will be layed out to maximize ridge roads and avoid stream crossings with sidehill construction.

Table 5. Transportation Management Summary (Miles)

Activity	Mainline	Collector	Rocked Spur	Dirt Spur
Construct	0	0	1.0	0
Improve	0	0	0	0
Maintenance	6	2	0	0
Block (Closed)	0	0	0	0
Vacate	0	0	0	0

VII. AQUATIC RESOURCES AND WATER QUALITY:

Riparian management areas (RMAs) within harvest unit boundaries will be managed according to FMP Riparian Strategies. The RMAs will be reviewed and determined during sale layout for current stand conditions and/or operational constraints for implementing FMP strategies. RMAs result in leave trees adjacent to the stream which protect stream temperature, provide nutrients, protect stream banks, and eventually provide wood to improve fish habitat.

Rock Creek, a large type F (Fish) stream in the FPA Coast Zone with listed winter steelhead will be posted outside of the sale in the North and Northwest portions of Area 1. Olson Creek, a type F stream with Large and Medium sections in the FPA Coast Zone with listed Coho species will be posted outside of the sale in the Northeast portion of Area 1 and Northern edge of Area 2. The Green Tree Retention Area buffers along Rock Creek and Olson Creek are a conifer and alder mix. There is beaver pond located within Area 2. This area will be buffered by a 100 foot riparian management area.

Specifically, to protect water quality in Rock and Olson Creeks in the medium to large Type F sections adjoining Areas 1 and 2, Green Tree Retention Areas will be maintained between the stream and the posted sale boundaries. 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, and 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 July 1 and Aug. 31. Operations outside of this period will be reviewed with ODFW.

The sale area is within the Upper Nehalem watershed. The Upper Nehalem Watershed Analysis (Dec 2005) will be checked for recommendations that could be applied during this sale. The district will consult with the ODFW Fish Habitat Biologist to evaluate potential opportunities for stream enhancement (large wood placement) projects into Olson Creek associated with this sale.

VIII. WILDLIFE AND T&E SPECIES CONSIDERATIONS:

The sale area has been reviewed with the Northwest Oregon Area Biologist for ODF.

The sale was surveyed for Northern Spotted Owls during the 2008 survey season with no response. The sale will be surveyed again during the 2009 survey season. All surveys will be/were conducted in accordance with USFWS protocol.

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

This operation involves an activity that is listed in the National Marine Fisheries Service adopted rules under Section 4(d) of the Endangered Species Act. The sale area is in proximity to streams in which listed salmon and/or steelhead are present. For a discussion of protection measures for listed fish, see sections VI and VII.

The sale area was checked against the Oregon Natural Heritage Program database of known listed plant locations, as well as against local records. No listed plant records were identified within or adjacent to the sale area.

IX. SLOPE STABILITY AND GEOTECHNICAL ISSUES:

This assessment is based on USGS 1:24,000 topographic maps and available geologic maps. There are some possible high landslide hazard locations in Area I. There may be a few high landslide hazard locations in Area II. Area I drains to Rock Creek and Olson Creek. Area II drains to Olson Creek. The risk of landslides delivering to Rock Creek and Olson Creek from Area I is moderate and to Olson Creek from Area II is low. Area II appears to be located on a large, deep-seated landslide landform. The geotechnical specialist will be consulted if evidence of recent landslide activity is identified during sale layout.

X. RECREATION RESOURCES:

The sale is located within an area which is designated as Non-Motorized in the Tillamook State Forest Comprehensive Recreation Plan (1993). The District Recreation Coordinator has reviewed this sale and provided comments on the planned operation. There are not any developed and designated trails or recreational facilities in the area and none are currently planned for development. Public use does occur in the area, usually associated with dispersed camping, target shooting, and hunting. Dispersed use sites within the sale area boundary should be inventoried and evaluated for closure or improvement. Target shooting sites within the sale area boundary should be inventoried and evaluated for closure. No further concerns were identified.

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 or adjacent* to the operation areas. If any significant cultural resources are located during sale preparation, 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 area is in an area of low visual sensitivity.

XIII. OTHER RESOURCE CONSIDERATIONS:

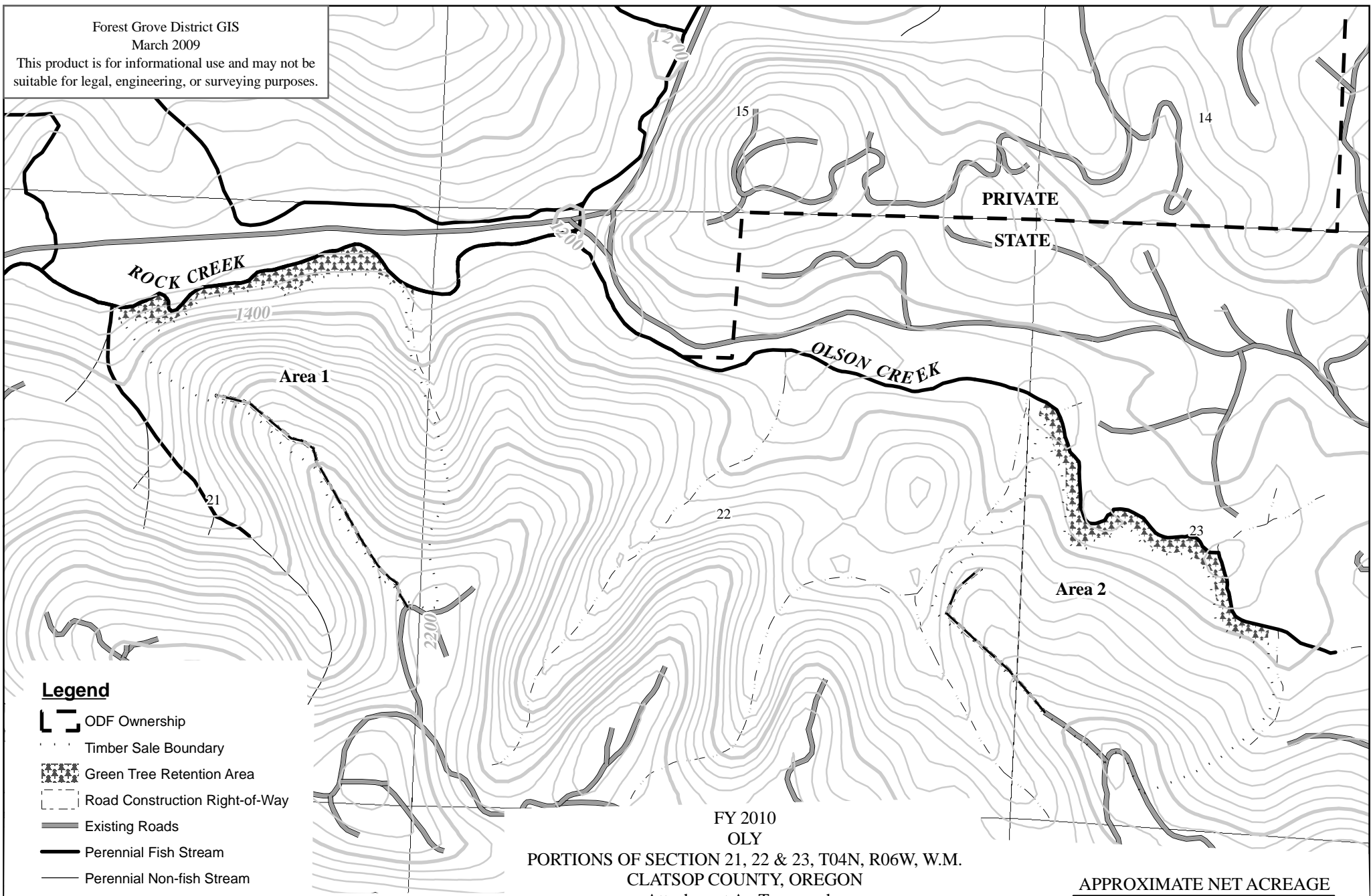
No property survey is needed, however approximately 20% of the sale boundary is close to private ownership apparently using Rock Creek as the ownership divider. Further investigation and recon associated with ownership location will be done. All known survey corners and witness trees shall be protected from damage during any operations.

No other resources of significance are involved.

XIV. LAND MANAGEMENT CLASSIFICATION SUMMARY:

The sale contains Focused and Special Stewardship, Aquatic and Riparian Habitat due to the presence of streams within the sale. Section VII "Aquatic Resources and Water Quality" describes the management guidelines to be applied in these areas.

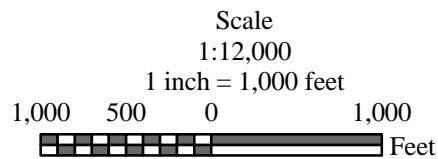
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Legend

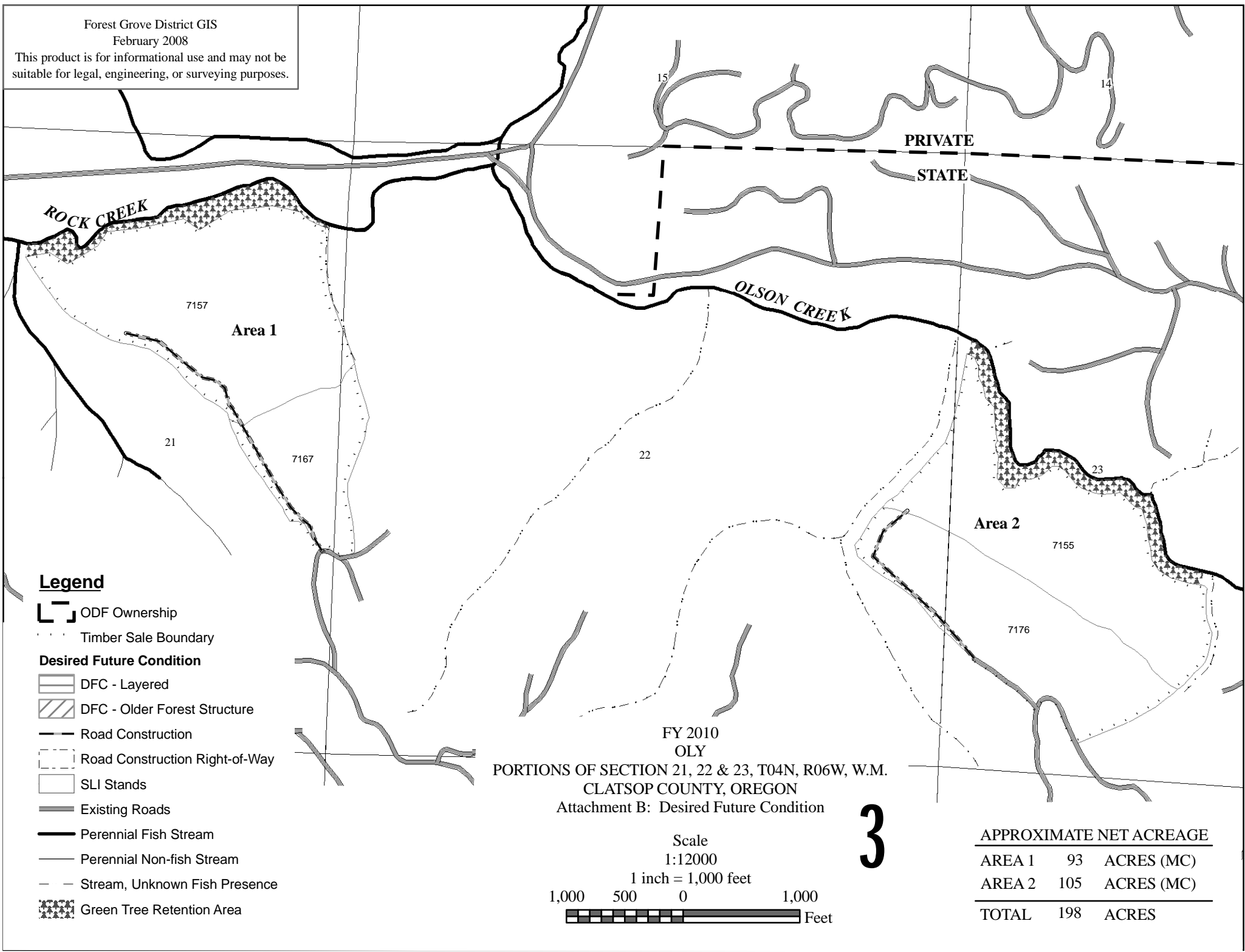
- ODF Ownership
- Timber Sale Boundary
- Green Tree Retention Area
- Road Construction Right-of-Way
- Existing Roads
- Perennial Fish Stream
- Perennial Non-fish Stream
- Stream, unknown Fish Presence
- Road Construction Right-of-Way
- Stream Buffer
- 200 ft. contour lines
- 40 ft. contour lines

FY 2010
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 PORTIONS OF SECTION 21, 22 & 23, T04N, R06W, W.M.
 CLATSOP COUNTY, OREGON
 Attachment A: Topography



APPROXIMATE NET ACREAGE		
AREA 1	93	ACRES (MC)
AREA 2	105	ACRES (MC)
TOTAL	198	ACRES

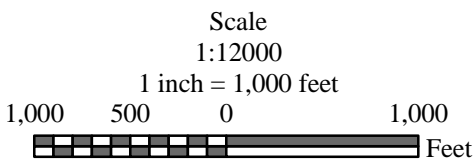
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Legend

- ODF Ownership
- Timber Sale Boundary
- Desired Future Condition**
- DFC - Layered
- DFC - Older Forest Structure
- Road Construction
- Road Construction Right-of-Way
- SLI Stands
- Existing Roads
- Perennial Fish Stream
- Perennial Non-fish Stream
- Stream, Unknown Fish Presence
- Green Tree Retention Area

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PORTIONS OF SECTION 21, 22 & 23, T04N, R06W, W.M.
CLATSOP COUNTY, OREGON
Attachment B: Desired Future Condition

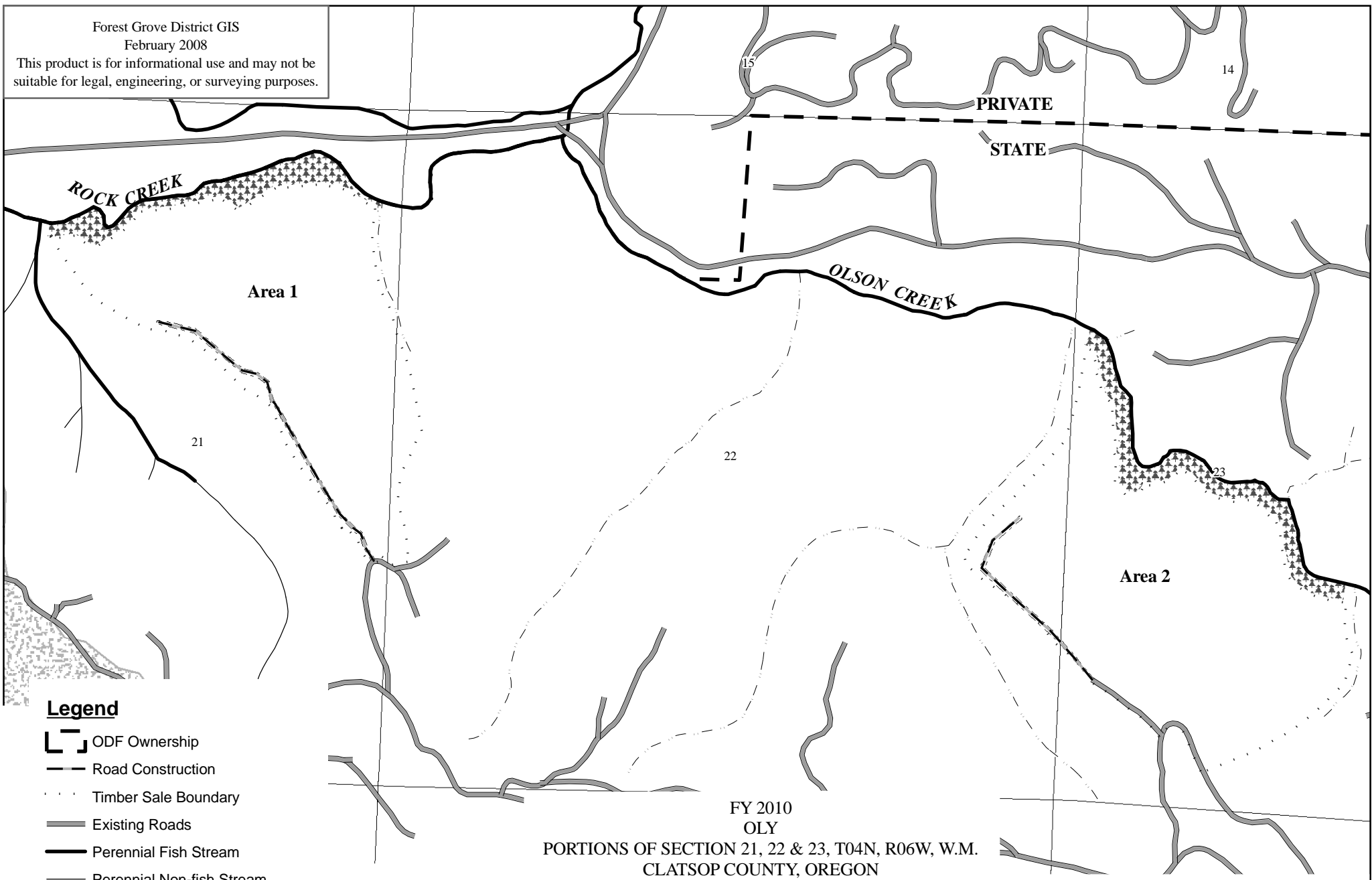


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







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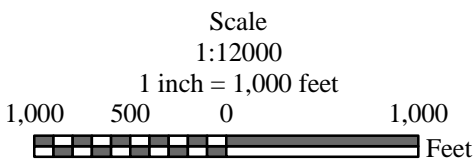
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Legend

-  ODF Ownership
-  Road Construction
-  Timber Sale Boundary
-  Existing Roads
-  Perennial Fish Stream
-  Perennial Non-fish Stream
-  Stream, Unknown Fish Presence
-  Salmon Anchor Habitat
-  Green Tree Retention Area
-  Road Construction Right-of-Way

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PORTIONS OF SECTION 21, 22 & 23, T04N, R06W, W.M.
CLATSOP COUNTY, OREGON
Attachment C: Key Resources



3

APPROXIMATE NET ACREAGE		
AREA 1	93	ACRES (MC)
AREA 2	105	ACRES (MC)
TOTAL	198	ACRES