

Pre-Operations Report

Operation Name: Mothball Hill

County (%): Clatsop (100%)

Elevation: 4 - 215 ft

Legal Description: T8N, R8W, Section 18; T8N, R9W, Sections 13, 24

Tax Code(s): 1-04

BOF%: 100 **CSL%:** 0

Sale Quarter: Alt

I. VOLUME AND VALUE SUMMARY

Table 1. Types, Acres, and Value

Unit	Harvest Type	Anticipated Product ^c	Gross Acres	Net Acres	MBF/ Acre ^a	MBF/ Unit ^a	\$/MBF ^b	\$/Unit
1	CC	WH-M, DF-M	119	88	30.0	2,640	\$400	\$1,056,000
2	CC	SS-L, WH-L	8	7	55.0	385	\$400	\$154,000
Total		Regeneration	127	95		3,055		
		Partial Cut						
						Gross Value		\$1,210,000
a. Estimated harvest volume per acre for Unit.						Project Costs		\$90,800
b. Estimated ‘price’ (excluding Project Costs)						Net Value		\$1,119,200
c. Anticipated Product (AA-B-C) – AA) SLI species code of the bid species, B) Size Class (S – small [average DBH < 15], M – medium [average DBH 15 to 23], L – large (average DBH > 23]), C) Special Product (P – Premium, H – Hardwood)								

II. CURRENT STAND CONDITION:

Table 2. Stand Inventory Information

Unit	Stand ID	Measured/Imputed ^a	Species	Age	TPA	DBH	BA	SDI	Net Acres ^b
1	23097	M	RA,WH	73	214	14	236	63%	43
1	23111	I = 23047	DF,WH	63	79	21	181	42%	1
1	23120	M	DF,WH	46	169	14	186	49%	32
1	23129	M		15				0%	9
1	23165	I = 23238	WH,DF	26	425	9	199	63%	3
2	23149	I = 99999		2				0%	1
2	23164	I = 23089	WH,RA	103	102	19	202	48%	5

a. Identify the source of stand inventory information. Use the following codes: M = Measured SLI data, I = Imputed SLI data, P = Pre-Cruise Plots, O = other (if other, describe below).

b. Net Acres have been rounded to the nearest whole acre in this table. Stand that comprise less than one acre of a harvest unit are not reported in this table, so the total "Net Acres" per unit in this table may not equal the total "Net Acres" per unit in table 1.

- The Stand boundary for Stand #23129 and 23165 are incorrect. The Mothball Hill sale does not harvest any of this younger timber type. The twelve acres should be included in Stand #23097 and is shown as such in the remainder of this document.
- The Stand boundary for Stand #23149 is incorrect. The Mothball Hill sale does not harvest any of this younger timber type. The one acre should be included in Stand #23164 and is shown as such in the remainder of this document.

- This area has been salvage logged both within and adjacent to both sale units.
- Unit 1:
 - Stand #23120 was planted in 1977 and was pre-commercially thinned.
 - Portions of the Unit close to the highway were thinned in the early 70s.
 - Stand #23097 was primarily planted in 1950 and a small portion to the northwest of the unit was planted in 1964. It is believed to have been pre-commercially thinned but there are no existing records on the year.
- Unit 2
 - This unit was thinned in the early 60s.

Table 3. Additional Stand Information

Unit	Stand ID	Snags/ Acre ^a	Down Wood/ Acre ^b	Forest Health		
				SNC	Phellinus	Other ^c
1	23097	19	110			Knotweed/Bamboo
1	23111	13	94			Knotweed/Bamboo
1	23120	11	544			Knotweed/Bamboo
2	23164	3	59			

- a. Identify the number of hard snags per acre (decay classes 1 and 2)
 b. Identify the cubic feet per acre of hard down wood (decay classes 1 and 2)
 c. Describe “Other” forest health issue.

- Knotweed and bamboo was been noted in vicinity of the timber sale. Equipment that works on site should be cleaned prior to moving to another location. Presence of these invasive species should be taken into account during reforestation efforts to ensure that they do not spread through the Unit.

III. WILDLIFE AND T&E SPECIES CONSIDERATIONS:

Foresters need to read the Biological Survey Tracking Form (BSTF) prior to sale layout in order to ensure all T&E related information is understood. (Consult the ODF Wildlife Biologist assigned to your District for the BSTF.)

- A portion of the operation is within (Check all that apply):

☐ TAS ☐ NSO Circle or Home Range, or Baseline or Elevated Baseline Thiessen (BA required)
☐ MMMA (BA required) ☒ None
- Are Surveys for NSO being conducted for any portion of this operation?

☐ No ☐ Density Surveys ☒ Operational Surveys ☐ Combination (Density/Operational)
 Notes: Full operational coverage began in 2023 and will continue into 2024. Begin felling date will not be until completion of 2024 surveys.
- Are Surveys for MM being conducted for any portion of this operation?

☒ Yes (in progress/completed) ☐ No (Not habitat) ☐ N/A (outside of MM survey zone)
 Notes: Surveys for Unit 1 are being conducted in 2023/2024 and in 2024/2025 for Unit 2. Survey coverage expires on 04/01/2030 for Unit 1 and 04/01/2031 for Unit 2.
- Are there any additional considerations (FPA Resource Sites, Species of Concern sites/Plant [from ORBIC¹], big game habitat/management, other)?

☐ No ☒ Yes, please describe: Bald Eagle sites are noted in the area and Bald Eagles were observed in the vicinity of Unit 1 on 12/15/2022. District will work with Biologist during sale layout to determine if protection measures are required.

IV. DESIRED FUTURE CONDITION AND PRESCRIPTION:

Table 4. Stand Structure Information

Unit	Stand ID	Current	Desired Future	Inside of HCA	Net Acres ^a
1	23097	UDS	GEN	No	53
1	23097	UDS	LYR	No	2 ^b
1	23111	UDS	GEN	No	1
1	23120	LYR	GEN	No	32
2	23164	LYR	GEN	No	6

- a. Net Acres have been rounded to the nearest whole acre in this table. Stand that comprise less than one acre of a harvest unit are not reported in this table, so the total “Net Acres” per unit in this table may not equal the total “Net Acres” per unit in table 1.
- b. Approximately two acres of Unit 1 is within DFC complex and outside of existing HCA boundaries. These areas are adjacent to stream buffers and will be assessed when exact buffer boundaries are posted to determine if a GTRA in this location is appropriate.

Table 5. Partial Cut & HCA Prescriptions (Complete only for Partial Cut and HCA Harvests)

Unit	Harvest Type	Harvest Species	Residual			
			Species	TPA	BA	% SDI
1	CC					
2	CC					

V. HARVESTING AND ACCESS CONSIDERATIONS:

Table 6. Harvest System and Access Summary

Unit	Harvest System		Slope (%)	Unit Access	Seasonal Access
	% Cable	% Ground			
1	0	100	<35	Simple	Combo
2	100	0	35-65	Simple	All Weather

- Haul Route: John Day Point Road.
 - All sale access roads are behind a locked gate. The gate is located just off Highway 30
- Haul Route Condition:
 - A project is planned for replacement rock and maintenance needs. Interior working spurs will be assessed during sale layout to determine if more extensive road maintenance is needed.
 - John Day Point Road will be maintained with a lift of surfacing rock.
- Are easements required for the haul route? ☒ Yes ☐ No
 - An easement will be required to access a portion of Unit 1 off of Timmerman Road. If an easement cannot be acquired, the Unit will be logged to the dirt spur being constructed to the east.

Table 7. Transportation Management Summary (Miles)

Activity	Mainline	Collector	Rocked Spur	Dirt Spur
Construct	0	0	0.5	0.6
Improve, Rock, and/or Maintain	0	0	1.6	0
Block	0	0	0	0.6
Vacate	0	0	0	0
Stream Crossings: install on existing road (IE)/replace on existing road (R) /install on new construction road (NC)				
Type F - SSBT ^a	0	0	0	0
Type F – Non-SSBT	0	0	0	0
Type N	0	0	0	0

a. Salmon Steelhead and Bull Trout (SSBT)

4. Rock Sources for this operation: Big Noise and Hunt Creek Stockpiles. Pit-run is available at the Big Noise or Hunt Creek Quarry.
5. Are property line surveys required for this operation? ☐ Yes ☒ No
 - Surveying was performed on the eastern boundary of Unit 1.
 - Other boundaries of Units 1 and 2 will require refreshing of previously established line. If the line cannot be located, it will be necessary to survey the line. Any surveying will be contracted in Winter /Spring of 2024
6. Is there planned new road construction planned within RCAs/HCAs? ☐ Yes ☒ No

VI. AQUATIC RESOURCES:

1. Do any streams additional review for the following?
 - a. Fish presence: ☐ No ☒ Yes
 - b. Perennial/Seasonal: ☐ No ☒ Yes
 - c. H.E.R./P.D.F.T: ☒ No ☐ Yes
 - There are several streams and potential wetlands within the sale that require additional review. Buffers shown on the map indicate where it is believed streams and/or wetlands are located. These streams and/or wetlands will be located, verified for fish presence, permanence, and/or type of seasonal stream during sale layout and Geotech review and buffered as required.
2. Is a portion of the operation within an Aquatic Anchor? ☒ No ☐ Yes, name:
3. Are any Points of Diversion (Domestic Water) located downstream within 3,000 feet of Operations. ☒ No ☐ Yes, describe protection measures:
 - There is a domestic system approximately 1,000 feet to the west of Unit 1. This system is fed by a spring and no streams are identified within the unit that drain in that direction. No other registered domestic water sites are identified in the area.
4. Is there a Stream Enhancement Project planned? ☒ No ☐ Yes, please describe:

VII. SLOPE STABILITY ISSUES:

Table 8. Summary of Slope Stability Assessment

Unit	Harvest Review Complete?	Public Safety Review Complete?	Additional Comment
1	Y	Y	See Recommendations for slope buffers. Note additional non-policy related deep-seated slide movement.
2	Y	Y	

Geotech Review: Harvest Unit review is completed, Deep-seated slide on eastern edge of Unit 1 has been reviewed, Stream Review has not been completed: Initial geotechnical reviews have been completed and those findings have been incorporated into No Harvest buffers. Some slope protections are dependent on stream surveys that have not yet been completed. Consultation with the Geotechnical Specialist is required during sale layout as streams surveys are completed in order to determine if additional protections are required.

VIII. RECREATION RESOURCES:

1. Recreation issues/coordination: ☒ No ☐ Yes, please describe:

IX. HISTORIC AND CULTURAL RESOURCES:

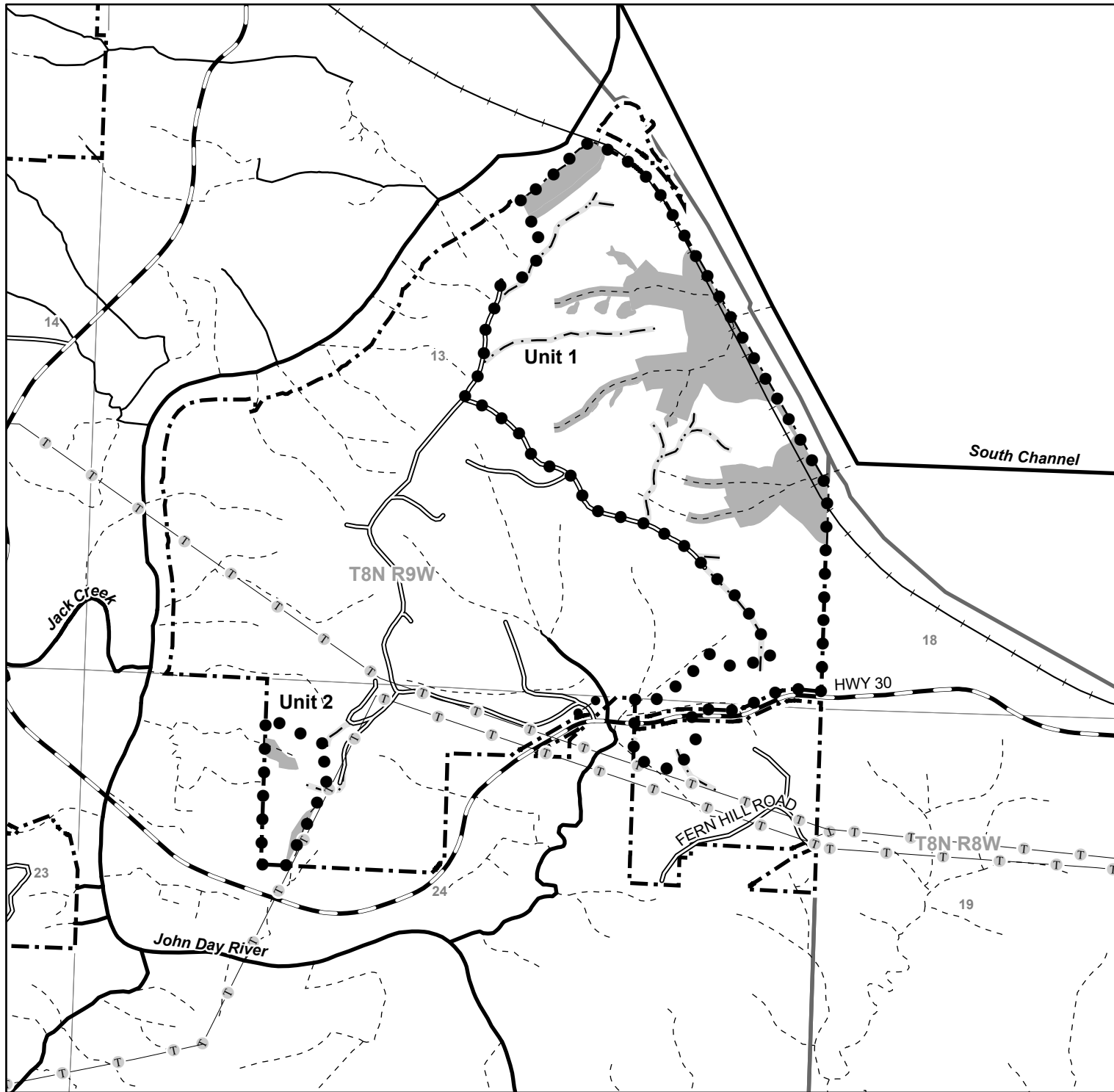
1. Has the sale been reviewed by a qualified archaeologist for potential historic or cultural resource presence?
☒ Yes ☐ No

X. SCENIC RESOURCES:

1. Are there scenic resources in the vicinity of this operation that need additional consideration?
☐ No ☒ Yes, please describe:
- Portions of Unit 1 are within the Scenic Highway Corridor. Harvests in this section will be conducted to mitigate hazard trees within the scenic corridor in conjunction with ODOT, Bonneville Power, and Pacific Power.
 - Portions of Units 1 and 2 will be visible from Highway 30 this will be taken into account when determining leave tree retention strategies.

XI. OTHER RESOURCE CONSIDERATIONS:

1. Has a review of the FLMCS layer determined that any resources not mentioned in the report above need additional planning? ☒ No ☐ Yes, describe below
2. Are there any other resources present that need additional consideration? ☐ No ☒ Yes, please describe:
 - **Adjacent Landowners:** Both Units 1 and 2 have boundaries adjacent to private homeowners. Due to the proximity of homeowners additional restrictions for controlled felling, operating timing restrictions and outreach will be required during sale layout and administration.
 - **Spray Plans:** Due to the proximity of adjacent homes, the powerlines, and protected resources to both Units any spraying in this area will be hand applied.
 - **Safety Harvest:** Trees adjacent to Highway 30 have been deemed a safety hazard and will need to be fallen to alleviate the hazard. These trees should not be marked as leave trees.
 - **Powerline:** An existing powerline is present on the edges of Units 1 and 2. Logging systems should be designed to avoid this hazard.
 - **Flaggers:** When falling trees adjacent to Highway 30 flaggers will be required and should be appraised for when writing the contract.



Legend

- ● Sale Boundary
- No Harvest Area
- Gates
- Railroads
- Transmission Lines
- New Road Construction
- Paved Roads
- Surfaced Roads
- Perennial Fish Streams
- Perennial Nonfish Streams
- - - Unknown Streams
- Ownership Boundary

FY 2025 - Astoria District Mothball Hill Portions of Sections 13, 24, T8N, R9W, W.M. Clatsop County

Unit 1	88 Acres (CC)
Unit 2	7 Acres (CC)
Total	95 Acres

State Forest Division
07/02/2024

This product is for informational use and may not be suitable for legal, engineering, or surveying purposes. Variations may exist between and among data sets in use by the Department of Forestry. This map was developed using the Statewide Stream Layer.

1:12,000

1,000 500 0 1,000 Feet

