

# Pre-Operations Report

**Operation Name:** Hubbub  
**County:** Clatsop  
**Management Basin:** Quartz

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

Area	Type of Operation	Gross Acres	Net Acres
1	MC	33	32
2	MC	63	58
3	MC	39	35
Total	Modified Clearcut	135	125

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

This sale is located in the Quartz Basin. All sale areas are within the hemlock vegetation zone. Aspects on all sale units are predominately northwest and southwest. The landform of Areas 1 and 2 are gentle to steep slopes of tributaries to and above the Nehalem River. Area 3 is mostly gentle (including small areas of steeper slopes) of tributaries to the Nehalem River. The underlying rock units are mostly sedimentary origin Keasey Formation informal Jewell member (mudstone and few sandstones) and Hamlet informal formation (mudstone). Areas 1 and 2 both include some igneous origin Coal Mountain Basalt informal formation.

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

**Area 1-** Consists of 45 year old Douglas-fir, red alder, western hemlock, and few scattered noble fir. This stand is classified as Closed Single Canopy (CSC). Area 1 has approximately 3 snags per acre over 12 inches in DBH, and 1 snag per acre over 24 inches in DBH. The stand has approximately 1,500 cubic feet per acre of down wood in all decay classes, and approximately 740 cubic feet per acre of down wood in decay classes 1 and 2.

**Area 2-** Consists of 56 year old red alder, Douglas-fir, western hemlock, and few scattered noble fir. This stand is classified as Understory Development (UDS). Area 2 has approximately 3 snags per acre over 12 inches in DBH, and 1 snag per acre over 24 inches in DBH. The stand has approximately 1,600 cubic feet per acre of down wood in all decay classes, and approximately 120 cubic feet per acre of down wood in decay classes 1 and 2.

**Area 3-** Consists of 56 year old red alder, Douglas-fir, western hemlock, and few scattered noble fir. This stand is classified as Understory Development (UDS).

Area 3 has approximately 5 snags per acre over 12 inches in DBH, and 1 snag per acre over 24 inches in DBH. The stand has approximately 2,300 cubic feet per acre of down wood in all decay classes, and approximately 953 cubic feet per acre of down wood in decay classes 1 and 2.

Understory development consists primarily of sword fern, vine maple, huckleberry, and salmonberry and scattered pockets of advanced western hemlock regeneration.

**Table 2. Stand Inventory Information**

Area	Prescription	Stand ID <sup>1</sup>	Species	Age	DBH	BA	TPA	SDI	Acres <sup>2</sup>
1	MC	23194	RA,RA	45	14.7	202	172	53	32
		Target <sup>3</sup>							32
2	MC	23119	RA,DF	56	14.9	228	189	59	58
		Target <sup>3</sup>							58
3	MC	23085	RA,DF	56	13.0	230	248	63	10
		23084	DF,RA	56	14.7	238	201	62	25
		Target <sup>3</sup>							12

<sup>1</sup> The source of stand inventory information is SLI. Age shown is as of 2008.

<sup>2</sup> The acres are based on GIS and exclude roads, streams buffers, reserve areas, etc.

<sup>3</sup> The Target identifies expected stand characteristics (DBH, BA, TPA and SDI) after harvesting has been completed.

### **III. DESIRED STAND CONDITION/VISION:**

All sale areas have been placed into the General category for their desired future condition to be managed for healthy vigorous stands of mixed conifer.

These areas will be regeneration harvested and planted with a mixture of conifer species. Five to seven conifer trees per acre will be left to provide a source for natural regeneration and future downed wood and snags. A pre-commercial thinning is anticipated at 12 to 17 years when crowns close followed by a commercial thinning at 30 to 40 years of age to ensure continued growth. At age 45 to 50 the stand will be evaluated for either additional thinning or regeneration harvest.

**Table 3. Stand Structure Information**

Area	Stand ID	Current	Post Harvest <sup>1</sup>	Desired Future	Acres
1	23194	CSC	REGEN	GENERAL	32
2	23119	UDS	REGEN	GENERAL	58
3	23085	UDS	REGEN	GENERAL	10
3	23147	UDS	REGEN	GENERAL	25

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

#### **IV. PROPOSED MANAGEMENT PRESCRIPTION:**

Area 1, 2, and 3- These areas are all modified clearcuts, a combination of methods will be implemented to achieve the green tree retention requirements such as green tree retention areas, stream buffers, and trees scattered across the sale areas (FMP, page 4-53, Paragraph 2). Minor species found may be reserved from cutting; further consideration of those species will be taken during sale layout. Site preparation will be accomplished through cable yarding and some ground based harvesting. Slash manipulation will focus on landing areas. Ground based herbicide application will be prescribed on both areas. The sale areas will be replanted with Douglas-fir and western hemlock at 300 trees per acre. Mountain beaver trapping is anticipated in both sale areas. Animal damage through big game browse is expected to be heavy. Douglas –fir will receive paper bud caps.

*Snags:* During all harvesting activities, all existing snags will be retained unless deemed to be safety hazards. Where fewer than two hard snags per acre are found to exist during sale layout, opportunities for snag creation or leaving additional live green trees may be implemented to supplement landscape snag levels (FMP, “Landscape Management Strategy 3c. Snags”, pages 4-53 and 4-54).

*Green Trees:* A combination of methods will be implemented to achieve the green tree retention requirements such as green tree retention areas, stream buffers, and trees scattered across the sale areas (FMP, page 4-53, Paragraph 2). Minor species found may be reserved from cutting; further consideration of those species will be taken during sale layout.

*Down Wood:* For all harvesting activities, all existing down woody debris will be retained. Down woody debris totals for Areas 1 and 3 meet landscape targets. Area 2 may require that additional conifer be retained to meet the landscape targets for down woody debris as prescribed in the FMP (FMP, “Landscape Management Strategy 3d. Down Wood.” pages 4-54 and 4-55).”

Site preparation will be accomplished through cable yarding and some ground based harvesting. Slash manipulation will focus on landing areas. Ground based herbicide application will be prescribed on both areas. The sale areas will be replanted with Douglas-fir, western hemlock at 300 trees per acre. Mountain beaver trapping is anticipated in both sale areas. Animal damage through big game browse is expected to be heavy. Douglas –fir will receive paper bud caps.

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

**Table 4. Timber and Revenue**

Ownership		Sale Type	
BOF	CSL	Cash	Recovery
100%	0%	<input type="checkbox"/>	X
Planned Quarter:		Alternate	

	Conifer	Hardwood	Total
Net Volume (MBF)	2,109	1,700	3,809
Stumpage Value (\$/MBF)	\$200	\$250	
Estimated Gross Value	\$421,800	\$425,000	\$846,800
		Project Costs:	\$127,780
		Estimated Net Value:	\$719,020

**VI. TRANSPORTATION PLANNING AND HARVESTING:**

Access to the harvest sites will be from State owned land to the east of the sale . The haul route will be from the sale areas on August Fire Road spurs to Quartz Creek Road and out to Highway 26. Construction of 0.3 miles new rocked spur, 0.6 miles new dirt spur, improvement of 8.0 miles rocked road, and maintenance of 10.0 miles of rocked road will be needed to for harvest of this sale. All dirt spurs will be water barred and blocked upon completion of harvesting activities.

The sale will have a mixture of cable and ground yarding opportunities.

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

Activity	Mainline	Collector	Rocked Spur	Dirt Spur
Construct	0.0	0.0	0.3	0.6
Improve	0.0	11.5	0.0	0.0
Maintain	4.0	3.0	3.0	0.0
Close/Block	0.0	0.0	0.0	0.6
Vacate	0.0	0.0	0.0	0.0

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

*Type F and Domestic Use Streams:* There is one Type F stream associated with the harvest activities. The Nehalem River runs along the northern boundary of Area 3. The Nehalem River contains Oregon Coast Coho, a federally listed fish.

*Aquatic Resource Protection:* For all areas, full log suspension is required when cable yarding over streams. No ground-based logging equipment operation is

allowed within the stream bank zone. No stream crossings are anticipated during road construction. 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 July 1 and Aug. 31. Operations outside of this period will be reviewed with ODFW. If any additional in-stream work is done with this sale, it will all be conducted during in-stream work periods established by ODFW. Riparian management areas 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.

*Small Type N Streams just above the Type F/ N Boundary*

Small type N streams can influence stream temperature of downstream fish-bearing streams. Sufficient trees will be retained within 500' of the confluence with type F streams to achieve 80% shade over streams.

*Type N Streams:* There are small perennial Type N streams within all sale areas. A 25' no-harvest buffer will be established along the small type N streams. Additional trees including some wildlife trees may be retained adjacent to the buffers, which may result in a wider buffer.

*Seasonal Small Type N Streams:* Equipment will be excluded from the stream bank zone (within 25' of the channel) to maintain the integrity of the stream channel. Some wildlife trees will be retained within and/or adjacent to the seasonal stream channels, which may result in a wider buffer.

All streams will be examined to determine stream type and classification during sale layout, and then the specific riparian management area strategies required in the FMP will be implemented. The FMP riparian management area strategies that will be implemented are found in the FMP, Appendix J, "Management Standards for Aquatic and Riparian Areas", pages J-1 through J-16.

**VIII. T&E SPECIES CONSIDERATIONS:**

All sale areas were surveyed to protocol for northern spotted owls and marbled murrelets in 2008 with no responses and will be resurveyed in 2009.

The sale area was checked against district knowledge for any listed plant location. The sale area was also checked against the Oregon Natural Heritage Program (OHNP) database of known listed plant locations. No listed plant records were identified within the sale area.

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

This assessment is based on a LiDAR-generated 1 m digital elevation model and available geologic maps.

There are high landslide hazard locations throughout the sale area. Area 1 drains into tributaries of Quartz Creek. Area 2 drains to the Nehalem River. Area 3 drains to an unnamed tributary of the Nehalem River. The risk of the landslides delivering to tributaries of Quartz Creek from the north half of Area 1 is moderate and the risk from the south half of Area 1 is low. The risk of the landslides delivering to the Nehalem River from the north half of Area 2 is high and the risk from the south half of Area 2 is low. The risk of landslides delivering to the unnamed tributary from Area 3 is high and the stream is identified as a debris torrent prone stream that requires leave trees under new rules in the Forest Practices Act. Standard implementation of the State Forest Management Plan will likely exceed these requirements. There may be deep-seated landslides on the north half of Area 1. Area 3 and the southwest portion of Area 2 appear to be located on a deep-seated landslide landform, portions of which have been more recently active than the bulk of the landform. The geotechnical specialist will be consulted during sale layout.

**X. RECREATION RESOURCES:**

This area receives heavy use. Hunting, fishing, and dispersed camping are the primary recreational uses. Sale Area 1 is adjacent to the Bloom Lake Trail system.

**XI. CULTURAL RESOURCES:**

No known cultural resources are within or adjacent to the operation.

**XII. SCENIC RESOURCES:**

The sale area is not in a landscape of visual sensitivity.

**XIII. OTHER RESOURCE CONSIDERATIONS:**

No private property lines are within the sale areas. No land surveying will be needed.

**XIV. LAND MANAGEMENT CLASSIFICATION SUMMARY:**

This sale is fully within the General Stewardship land management classification.

Salmon Anchor Boundary lines depicted on Attachment C are approximate; exact locations and site specific management activities will be determined during the sale preparation process.

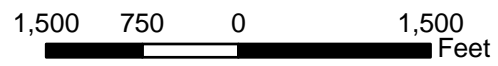
# FY2010 Hubbub Portions Sections 8, 10, 11, and 17, T4N, R7W, W.M., Clatsop County, OR.



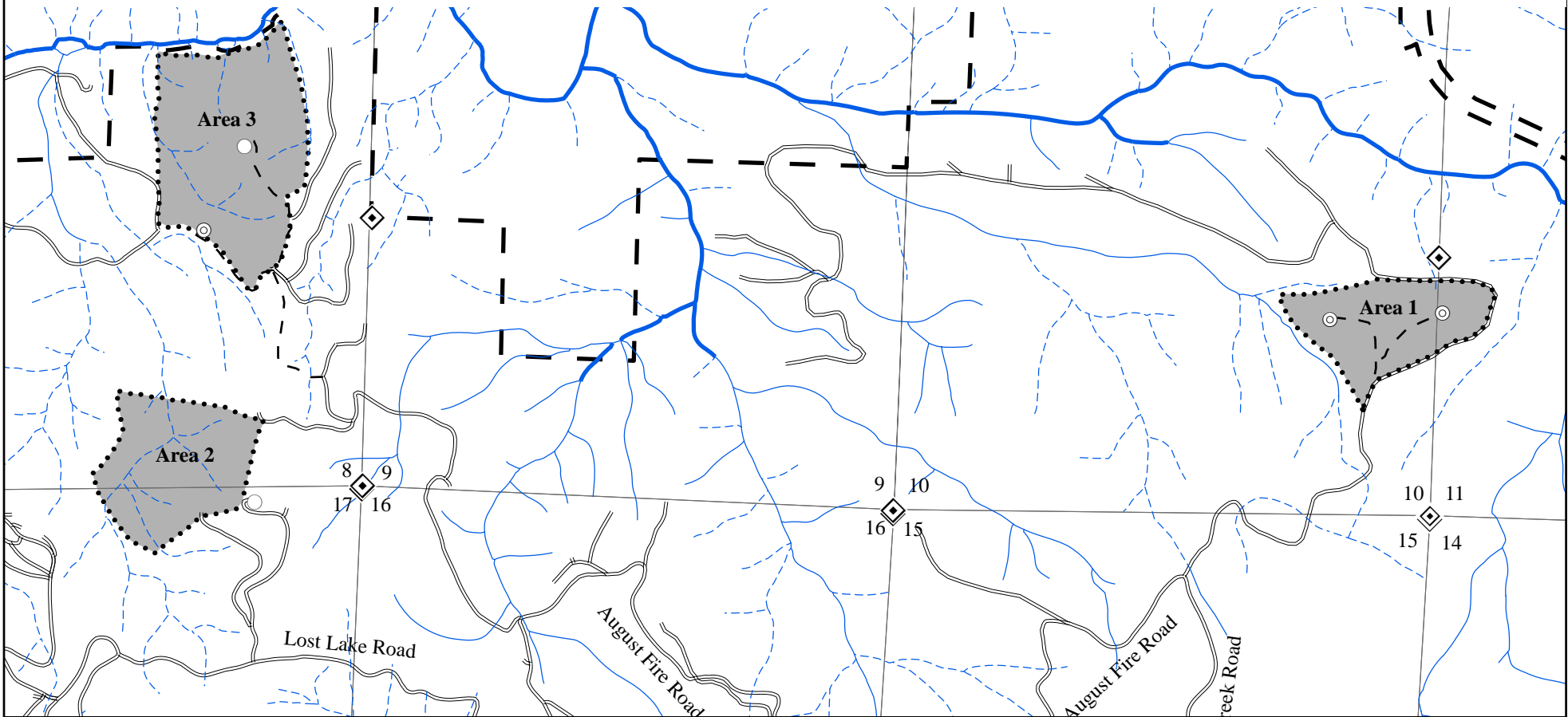
- Legend**
- Known Survey Corners
  - Fish Stream
  - Nonfish Stream
  - Unknown Stream
  - New Landing Construction
  - Existing Landings
  - New Road Construction
  - Existing Roads
  - Timber Sale Boundary
  - Ownership Boundary
  - Gross Sale Area

## Map A - Topography

Approximate Scale = 1:18,000



Approximate Net Acreage:  
 Area 1 (MC) 32  
 Area 2 (MC) 57  
 Area 3 (MC) 34  
 Total Sale Acreage = 123



Legend

- ◊ Known Survey Corners
- Fish Stream
- Nonfish Stream
- - - Unknown Stream
- ⊙ New Landing Construction
- Existing Landings
- - - New Road Construction
- Existing Roads
- - - Ownership Boundary
- Timber Sale Boundary
- /// Layered
- Older Forest Structure

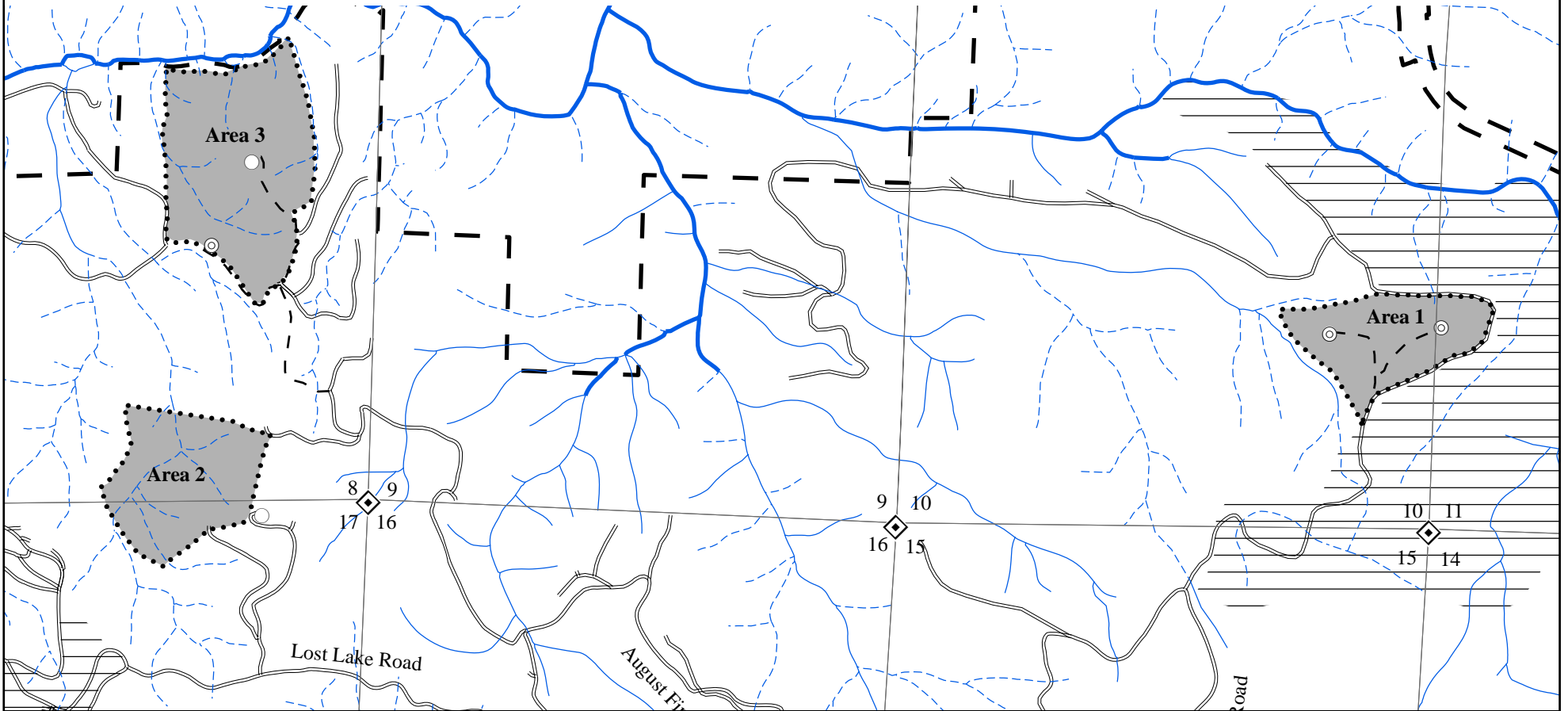
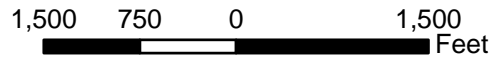
# FY2010 Hubbub

## Portions Sections 8, 10, 11, and 17, T4N, R7W, W.M., Clatsop County, OR.

### Map B - Desired Future Condition

Approximate Net Acreage:  
 Area 1 (MC) 32  
 Area 2 (MC) 57  
 Area 3 (MC) 34  
 Total Sale Acreage = 123

Approximate Scale = 1:18,000



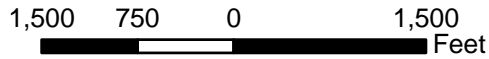
FY2010  
Hubbub

Portions Sections 8, 10, 11, and 17,  
T4N, R7W, W.M., Clatsop County, OR.

Map C - Key Resources

Approximate Net Acreage:  
Area 1 (MC) 32  
Area 2 (MC) 57  
Area 3 (MC) 34  
Total Sale Acreage = 123

Approximate Scale = 1:18,000



- Legend
- quarry-stockpile
  - Fish
  - Nonfish
  - Unknown
  - New Landing Construction
  - Existing Landings
  - New Road Construction
  - Existing Roads
  - Known Survey Corners
  - Gross Sale Area
  - Ownership Boundary

