

STATE OF WASHINGTON  
**DEPARTMENT OF FISH & WILDLIFE**  
**LANDS AND RESTORATION SERVICES PROGRAM**  
Salmonid Screening, Habitat Enhancement &  
Restoration Division (SSHEAR)

**OFF-CHANNEL SITE INVENTORY DATA**

**General Information:**

<b>Region:</b> North Coast	<b>Observer(s):</b> Nettnin
<b>River System:</b> Sol Duc	<b>Date:</b> 2/1/01
<b>Site Identifier:</b> S-324R-13	<b>WRIA:</b> 20.0324X
<b>River Mile Location:</b> 4.0	<b>RB/LB:</b> RB
<b>Local Name:</b> Moose Marsh	<b>Trib. to:</b> Beaver Creek (20.0324)
<b>Legal Description:</b> NW ¼, Sec 16, T30N, R12W	<b>County:</b> Clallam
<b>Habitat Type:</b> Wetland	
<b>Landowner:</b> <input type="checkbox"/> Federal <input type="checkbox"/> State <input type="checkbox"/> County <input type="checkbox"/> Other Government <input checked="" type="checkbox"/> Private Rayonier Timber Operations Company	

**Directions to site:** North from Forks to M.P. 203.9. Turn left onto SR 113 (Burnt Mountain Road). Follow for 3.9 mile to the FSR-3116 and turn left onto the road. The FSR-3116 parallels Moose Marsh up to the old grade to the right.

**Site Overview:** This wetland is a part of a larger wetland associated with Beaver Lake. It has been isolated from the main wetland by the SR-113 highway. The outflow of this wetland is through a pipe under the highway. This is an active beaver area which has resulted in ongoing problems associated with debris in the culverts. The culverts are presently partially plugged with beaver debris. There is a smaller pipe inserted in the inlet end of one culvert, apparently an effort to discourage the beaver. The modifications plus the debris in the pipes may impair fish passage. There are several sources of water to this wetland. Two small stream systems originate on the valley wall. This wetland also receives water from numerous springs and other small tributaries that originate along the edges of the forested and open sedge wetland. The outflow stream flows through a scrub-shrub wetland as it joins Beaver Creek. The reach on the other side of SR-113 is an open sedge and reed canary grass wetland. The following upstream reach is a forested wetland with hardwood canopy, brush understory. There are scattered conifer in the central and western portions of the wetland, and a conifer dominated forested wetland on the eastern portion. There are limited spawning habitat but good rearing areas. Trout were observed throughout the wetland. This system is upstream of an anadromous barrier. The fish observed are assumed to be trout or cottid.

**Habitat Information:**

**Water source:** Surface runoff, and springs in the wetland

**Intermittent/year-around:** year-around, with intermittent areas.

**Estimated flows (cfs):** Lower end: 0.5 - 1.0 Upper end: 0.05 - 0.1

**Water temperatures:** Lower end: 7.0° Upper end: 7.0°

**Adjacent stream temperature:** 5.5°

**Other water observations:** water slightly tannic colored

**Site area measurements:**  Indirect  Direct  Combination

Widths: Channel- 0.3 - 1.0 m Ponds- 10 - 20 m Wetlands- 150 - 200 m

Depths: Channel- 5 - 60 cm Ponds- 1 - 2 m Wetlands- 5 - 60 cm

Total length surveyed (includes ponds and wetlands): 450 m

**Total existing habitat area (est.):** 1,620 m<sup>2</sup>

Spawning area: 20 m<sup>2</sup>

Impounded area: 500 m<sup>2</sup>

Other rearing area: 1,100 m<sup>2</sup>

**Spawning Habitat conditions:**  None  Poor  Fair  Good  Excellent

**Describe spawning habitat:**

- The gravels are small in size.
- The gravel is limited to the alluvial area of the source tributaries.
- The gravel areas are located where the channels are narrow, incised and susceptible to high velocity flows.

**Rearing habitat conditions:**  None  Poor  Fair  Good  Excellent

**Describe pond and other rearing habitat::**

- The pond habitat is created by beaver activity. It is open, with very limited cover.
- Instream cover appears sufficient and is provided by LOD, tree roots, tannic water and bank overhangs.
- Overhead cover is provided by primarily a hardwood canopy and a brush understory. Scattered conifers dominate the central and western portions of the wetland and a conifer dominated forested wetland on the eastern portion.

**Describe unaccessible habitat::** NA

**Describe wetland:**  Bog  Marsh  Scrub-shrub Wetland  Forested Wetland

- The open marsh is about 170 m wide and 30 - 70 m long. It is dominated by reed canary grass with some scattered hardwood and conifer trees. The water is about one meter deep at its deepest point.
- The forested wetland varies from mainly hardwood on the west edge to mainly conifers on the east side. Overall, most of the area is a mixed forest.
- There are also some scattered old growth western red cedar and Sitka spruce on the east edge.

**Flooding potential:**  Low  Medium  High

**Fish Information:**

**Site entry condition to (Beaver creek):**  Poor  Fair  Good

- The egress channel is braided through the main wetland and merges with Beaver Creek in a back eddy.

**Coho access and use:**

Juvenile-  Unknown  None  Poor  Fair  Good

Adult-  Unknown  None  Poor  Fair  Good

- This wetland habitat is upstream of an anadromous barrier.

**Other species access and use:**  Chum  Pink  Sockeye  Chinook  Trout

- Fish were observed in several places throughout the wetland.
- Six minnow traps were set in two of the inlet tributaries. Two cottids were captured.

**Habitat Improvements:**

**Enhancement opportunities:**

Possible project type: Maintain the integrity of the wetland and tributaries.

Equipment access: yes

**Additional Comments:**

G.P.S. culvert location: East- 1,082,240.8580 North- 1,033,202.1140

**Attachments Available:**

**Contact respective SSHEAR habitat biologist for the following checked items:**

- |   |  |   |   |
|---|--|---|---|
| <input type="checkbox"/> Aerials          | <input checked="" type="checkbox"/> Sketch | <input type="checkbox"/> Maps                         | <input type="checkbox"/> Culvert Report |
| <input type="checkbox"/> Other references | <input type="checkbox"/> Spawning surveys  | <input checked="" type="checkbox"/> Juvenile trapping | <input type="checkbox"/> Fishway Report |

**NORTH COAST OFF CHANNEL SURVEY**  
**SUBSEQUENT SITE EVALUATION FORM**

River System: Sol Duc

Site No.: S324R-13  
Site Name: Moose Marsh  
WRIA: 20.0234X

DATE: 2/25 - 2/26

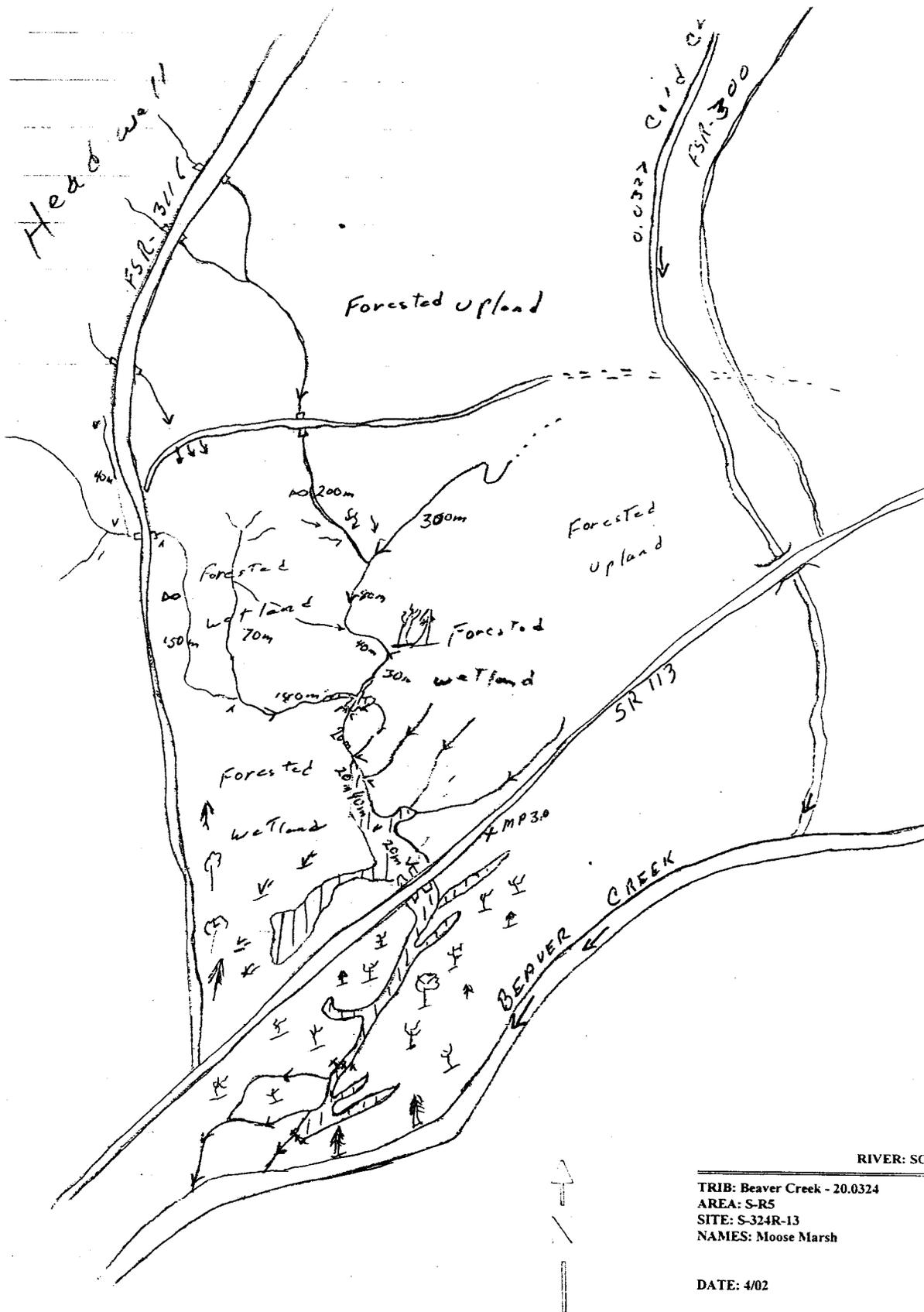
OBSERVER: Darrow

**MINNOW TRAPPING REPORT**

TRAP	DATE		DATE		COHO	CATCH			COTTID
	SET	TEMP	PULLED	TEMP		TROUT		0+	
						RBT	CUTT		
1	2/25	7.0°C	2/26	6.5°C	0	0	0	0	0
2	2/25	7.0°C	2/25	6.5°C	0	0	0	0	0
3	2/25	7.0°C	2/25	6.5°C	0	0	0	0	2
4	2/25	7.0°C	2/25	6.5°C	0	0	0	0	0
5	2/25	7.0°C	2/26	6.5°C	0	0	0	0	0
6	2/25	7.0°C	2/26	6.5°C	0	0	0	0	0
<b>TOTALS:</b>					0	0	0	0	2

**COMMENTS:**

- Trap 1 was placed about 10 m above the culvert under the FSR-3116 road.
- Trap 2 was placed in the plunge pool of the culvert under the FSR-3116 road.
- Trap 3 was placed about 40 meters below the FSR-3116 road.
- Trap 4 was placed about 70 meters below the FSR-3116 road.
- Trap 5 was placed about 25 meters below the culvert on the first left hand spur road off the FSR-3116 road.
- Trap 6 was placed about 20 meters above the culvert on the first left hand spur road off the FSR-3116 road.
- All traps were baited with salmon roe.



RIVER: SO

TRIB: Beaver Creek - 20.0324  
 AREA: S-R5  
 SITE: S-324R-13  
 NAMES: Moose Marsh

DATE: 4/02

North from Forks to M.P. 203.9. Turn left onto SR 113 (Burnt Mountain Road). Follow for 3.9 mile to the FSR-3116 and turn left onto the road. The FSR-3116 parallels Moose Marsh up to the old grade to the right.

