

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:

**Region:** North Coast **Observer(s):** Powell  
**River System:** Sol Duc **Date:** 5/19/98  
**Site Identifier:** S-320L-03 **WRIA:** 20.0320B  
**River Mile Location:** 2.0 mi (hip chained) **RB/LB:** LB  
**Local Name:** Bockette Creek **Trib. to:** Bockman Cr (20.0320)  
**Legal Description:** SW¼ Sec05 T29N R12W **County:** Clallam  
**Habitat Type:** Terrace tributary  
**Landowner:** (X) Federal ( ) State ( ) County ( ) Other Government (X) Private  
- National Forest  
- Bloedel Timber Company

**Directions to site:**

Starting at Forks (Tillicum Park), drive north on Highway 101 for 11.4 miles (mp 203) to Mary Clark Road. Take a right on this road and follow for 1 mile and there will be a road to the right. Take a right on this road (FS 2902) and follow for 2 miles. At this point, there will be a culvert crossing and a tank trapped road (with double culverts) to the left. This is the mid-reach of S-320L-03 (and the past location of the Forest Service juvenile trap).

**Site Overview:**

This divergent, stable channel has a variety of characteristics. In the upper reach, the channel has a fine sediment/gravel substrate and flows through thick brush with an alder/conifer over-story. In the mid reach, there is a small, sedge wetland which offers some quality off-channel habitat. Downstream of the wetland, the channel flows through more brush and then into a conifer forest. In the conifer, the channel has a bedrock and rubble substrate and a small section with a 12% gradient. The lowest reach of the channel has quality spawning gravel.

Habitat Information:

**Water source:** Springs, terrace runoff and road runoff  
**Intermittent/year-around:**  
- Year around  
**Estimated flows (gpm):** 75 - 100  
**Water temperatures:** 9.0° C  
**Adjacent stream temperature:** Did not take (20.0320)  
**Other water observations:**  
- Water is slightly tannic

**Site area measurements:**  Indirect  Direct  Combination

Widths: Channel- 1 m - 1.8 m      Ponds- NA      Wetlands- 1 m - 1.5  
Depths: Channel- 3 cm - 12 cm      Ponds- NA      Wetlands- 15 cm - 30 cm  
Total length (includes ponds and wetlands): ~1545 m

**Total existing habitat area (est.):** 2185 m<sup>2</sup>

Spawning area: 550 m<sup>2</sup>  
Impounded area: 0  
Other rearing area: 1635 m<sup>2</sup>

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

**Describe spawning habitat:**

- There is a short section near the egress that contains quality spawning gravel.
- The Quileute Tribe has done some coho spawner surveys on this stream.
- The Quileute Tribe has observed sea-run cutthroat spawning in the upper reach.

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

**Describe pond and other rearing habitat:**

- The mid and upper reaches offers some limited but quality off-channel habitat.
- The lower to mid reach offers very limited habitat due to its bedrock/rubble substrate.
- The water in this channel appears to be stable most of the time. It has a low, slow flow.
- There is cover of LOD.
- The channel has mostly a fine sediment substrate. Excessive fine sediment may have been introduced via the FS 2902 road (parallels the upper reach). Water flows off adjacent, left bank hill side and along the road ditch. There are several culverts near the upper reach that drain this water into S-320L-03. Silt barriers have been used in the past on these culverts. This summer, the road surface was sealed.
- The upper and mid reach have thick brush and broken alder tops concealing the channel.

**Describe unaccessible habitat:**

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

- In a small section of the mid reach, the channel has a deep braiding network. It flows through sedge, water parsley and skunk cabbage with an alder canopy.

**Flooding potential:**  Low  Medium  High

**Fish Information:**

**Site entry condition to (Bockman Cr. 20.0320):**  Poor  Fair  Good

- There is a small log jam on Bockman Creek which forms a eddy pool at S-320L-03s egress.

**Coho access and use:**

- Juvenile-  Unknown  None  Poor  Fair  Good  
Adult-  Unknown  None  Poor  Fair  Good
- The USFS has juvenile information. They have maintained a trap downstream of the wetland since April, 1995.
  - The Quileute Tribe has some adult use information. Their index is from RM 0.0 to RM 0.2.
  - I observed numerous coho juveniles in the wetland reach.

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

- I observed trout throughout the channel.

- The Quileute Tribe has observed sea-run cutthroat spawning in the upper reaches.

**Habitat Improvements:**

**Enhancement opportunities:**

- The double culverts on the old grade are not barriers but are decaying.

**Additional Comments:**

- Sealant on the FS 2902 road surface should reduce the amount of fine sediment that enters this system.

- Culvert across the FS 2902 was replaced by the USFS. The downstream channel was realigned at that time.

**Attachments Available:**

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

Aerials

Sketch

Maps

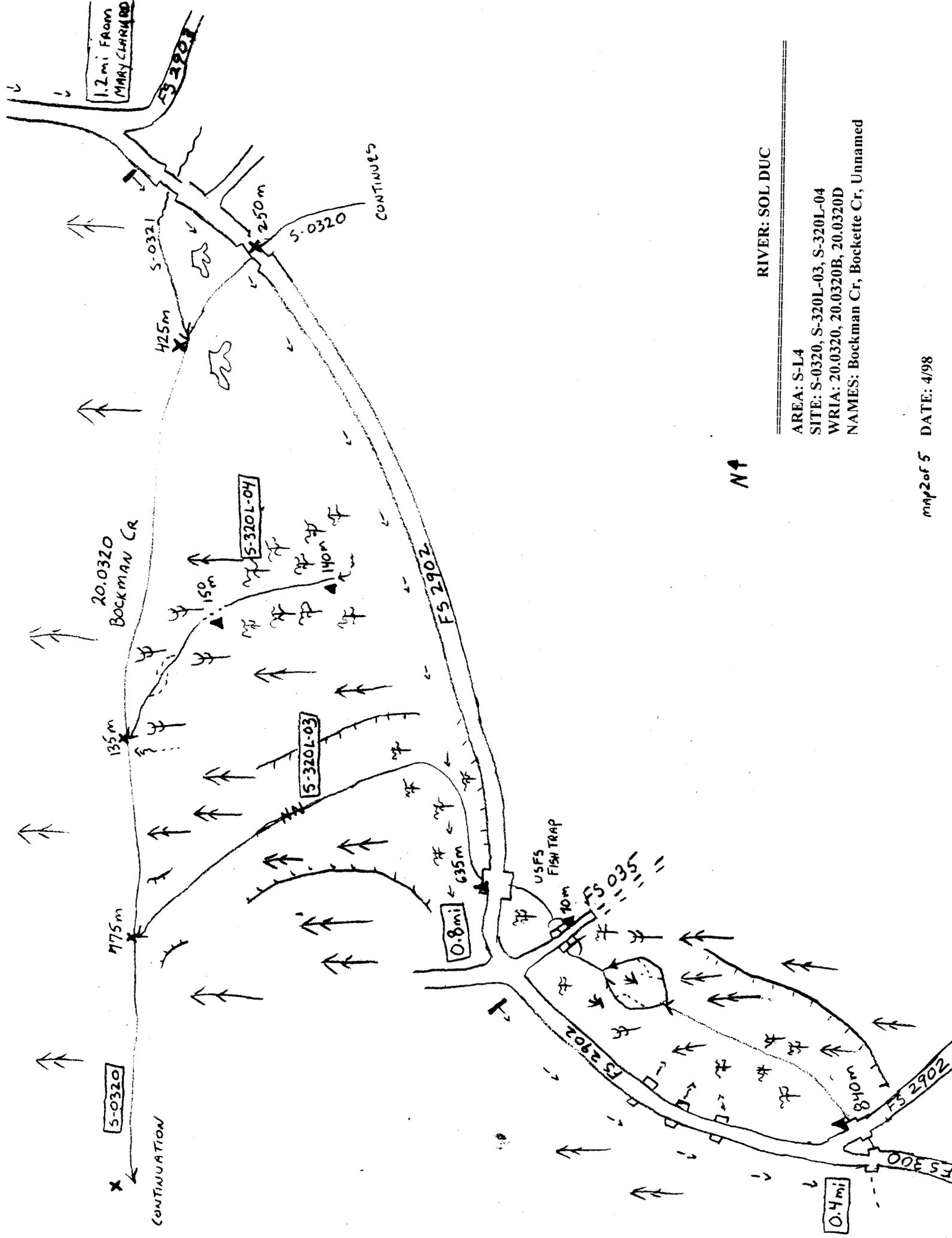
Culvert Report

Other references

Spawning surveys

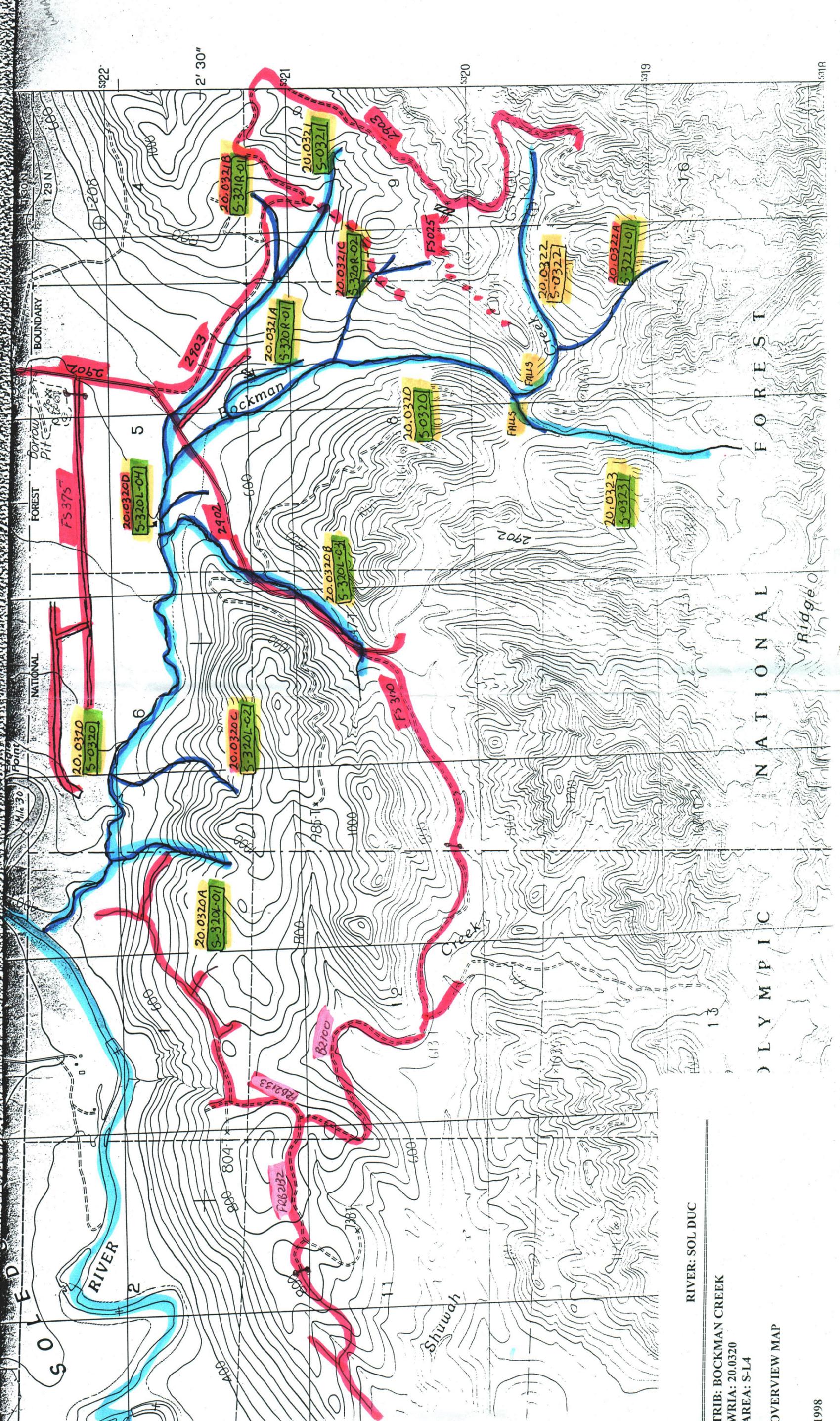
Juvenile trapping

Fishway Report



RIVER: SOL DUC

AREA: S-L4  
 SITE: S-0320, S-320L-03, S-320L-04  
 WRIA: 20.0320, 20.0320B, 20.0320D  
 NAMES: Bockman Cr, Boquette Cr, Unnamed



RIVER: SOL DUC

TRIB: BOCKMAN CREEK  
 WRIA: 20.0320  
 AREA: S-L4

OVERVIEW MAP

OLYMPIC NATIONAL FOREST

RIVER: SOL DUC RIVER

AREA: S-L4

AREA MAP

9/96

