

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): Nettnin
River System: Sol Duc	Date: 2/1/00 and 2/15/00
Site Identifier: S-324R-06	WRIA: 20.0324B
River Mile Location: 2.6	RB/LB: RB
Local Name: Boot Creek	Trib. to: Beaver Cr. (20.0324)
Legal Description: NW¼ Sec 20 T30N R12W	County: Clallam
Habitat Type: Lower valley wall tributary	
Landowner: <input type="checkbox"/> Federal <input checked="" type="checkbox"/> State <input type="checkbox"/> County <input type="checkbox"/> Other Government <input checked="" type="checkbox"/> Private - Department of Natural Resources - Unknown, possibly some private ownership	

Directions to site:

North from Forks on highway 101 to M.P. 203.9. Turn left onto SR 113 and follow for 2.0 mile. Turn left onto FS 100 and go through the rock pit. Take the immediate left onto the FS 105 and follow for 0.4 miles. The pond on the left is S-324R-09. Continue past the pond about 0.1 miles to a stream crossing. This is S-324R-06.

Site Overview:

This first order stream and its tributaries drain about 250 acres of timberland. The source for this system is in a saddle on the ridge that separates the Lake Creek and the Beaver Creek watersheds. From the saddle, the stream cascades down a 30% slope into a V-notch valley. About 10 meters below the cascades, the gradient quickly moderates and is usable by fish. The stream emerges from the V-notch valley just below the road grade. It continues across a terrace in a well-defined channel and at a gradient of about 7%. The timber on the lower two thirds of the stream was harvested about 15 years ago. The RMZ that was left either was narrow or has blown down. Shade is provided by 15 year old deciduous and conifer trees. The upper one third has been recently logged. A larger RMZ was left but much of it has blown down also. The stream has a good gravel substrate and supports coho and possibly steelhead spawning. The system does lack rearing areas. This is due to fish barriers in the tributaries and, the lack of woody debris and pools in the mainstem.

Habitat Information:

Water source: Springs, valley wall tributaries and terrace tributaries

Intermittent/year-around: Unknown, possibly year-around

Estimated flows (cf s): Lower end: 2.0 - 4.0 Upper end: 0.1 - 0.5

Water temperatures: Lower end: 5.5°C Upper end: 6.5°C

Adjacent stream temperature (Beaver Cr. 20.0324): 5.5°C

Other water observations:

- Water is clear

Site area measurements: Indirect Direct Combination

Widths: Channel- 1.0 - 3.0 m Pond- NA Wetlands- NA

Depths: Channel- 5 - 20 cm Ponds- NA Wetlands- NA

Total length surveyed (includes ponds and wetlands): 1,200 m

Total existing habitat area (est.): 4,920 m²

Spawning area: 1,460 m² Tributaries: 60 m² Total: 1,520 m²

Impounded area: 00 m² Tributaries: 1,070 m² Total: 1,070 m²

Other rearing area: 1,720 m² Tributaries: 610 m² Total: 2,330 m²

Spawning Habitat conditions: None Poor Fair Good Excellent

Describe spawning habitat:

- The majority of the substrate aggregate is gravel with limited amounts of rubble and fines.
- There is a high percentage of riffle area in the system.

Rearing habitat conditions: None Poor Fair Good Excellent

Describe pond and other rearing habitat:

- Overall, this stream could benefit from additional large woody debris. There are some areas that have sufficient debris that has created quality pools with good cover. The areas that lack debris also lack pools and cover.
- Overhead shade in the reach from the mouth to Lace Creek is provided by a 10 - 20 year old alder riparian within a similar aged conifer plantation. Part of the reach from Lace Creek to Arch Creek has less shade; there are fewer alders and the conifer is young and still spaced apart. The rest of the reach has an older conifer/deciduous mix that provides good shade. The first 200-meter reach above the road has good shade provided by young deciduous trees. The uppermost reach flows through a partial forest of 80 - 100-year old conifers. The timber on the right bank has been harvested and the leave strip has been partially blown down.
- Most of the pools in this stream are shallow and lack cover.
- The best overwinter habitat is in the tributaries to this stream. Part of that habitat is inaccessible (see individual reports).

Describe inaccessible habitat:

- There are two associated tributaries that are inaccessible.

Describe wetland: Bog Marsh Scrub-shrub Wetland Forested Wetland

- There are no wetlands associated with the mainstem. There are some in the tributaries.

Flooding potential: Low Medium High

- The mainstem is susceptible to high flows during heavy rainfalls.

Fish Information:

Site entry condition to (Beaver Creek 20.0324): Poor Fair Good

- Egresses into a backwater area.

Coho use:

Juvenile- Unknown None Poor Fair Good

Adult- Unknown None Poor Fair Good

- On 2/8/00, two minnow traps were set. On 2/9/00, the traps were checked. Eight coho and four cottid were captured below the road.
- During the initial survey of this system, two assumed coho redds were observed in one associated tributary and five in the mainstem.
- The Quileute Nation has spawner information on this stream.

Other species use: Chum Pink Sockeye Chinook Trout

- On 2/8/00 three minnow traps were set. On 2/9/00 the traps were checked. Two cutthroat trout were captured.

Habitat Improvements:

Enhancement opportunities:

Possible project type:

- Improve access to the two associated tributaries that have unaccessible areas.
- Provide additional cover structures in the mainstem.
- Maintain the integrity of the channel.

Additional Comments:

- G.P.S. readings: Taken but not recorded
- This stream had carcass seeding in the fall of 1999.

Attachments Available:

Contact respective SSHEAR habitat biologist for the following checked items:

- | | | | |
|---|--|---|--|
| <input type="checkbox"/> Aerials | <input checked="" type="checkbox"/> Sketch | <input checked="" type="checkbox"/> Maps | <input checked="" 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.: S-324R-06
Site Name: Boot Creek
WRIA: 20.0324B

DATE: 2/8/00 - 2/9/00

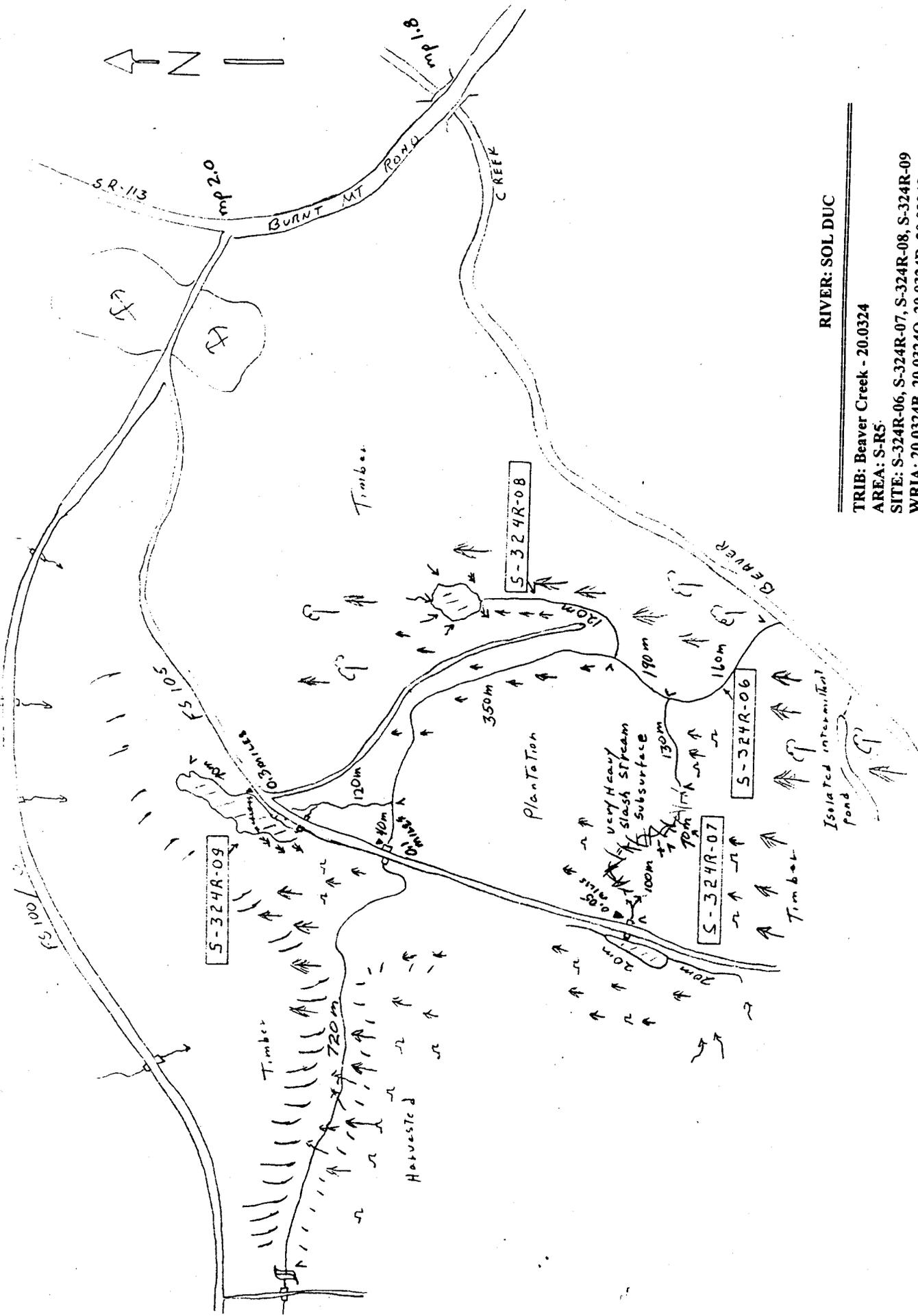
OBSERVER: Darrow, Nettnin

MINNOW TRAPPING REPORT

TRAP	DATE SET	TEMP	DATE PULLED	TEMP	COHO	CATCH			COTTID
						TROUT			
						RBT	CUTT	0+	
1	2/8	7.0°C	2/9	7.0°C	4	0	1	0	4
2	2/8	7.0°C	2/9	7.0°C	4	0	1	0	8
TOTALS:					8	0	2	0	12

COMMENTS:

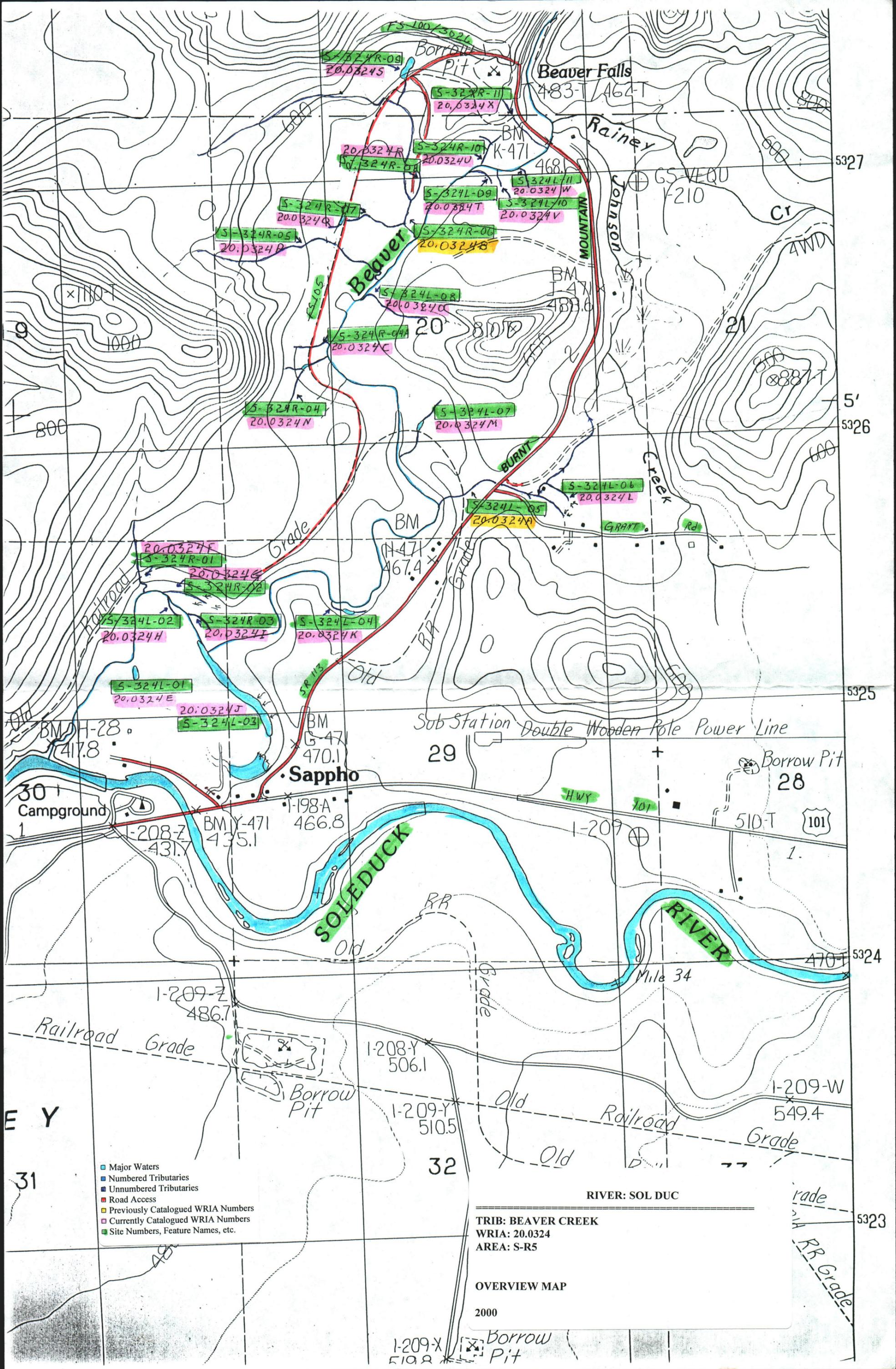
- Trap 1 was placed about 15 meters below the confluence of Lace Creek.
- Trap 2 was placed about 150 meters above the confluence of Lace Creek.
- All traps were baited with salmon roe.



RIVER: SOL DUC

TRIB: Beaver Creek - 20.0324
 AREA: S-R5
 SITE: S-324R-06, S-324R-07, S-324R-08, S-324R-09
 WRIA: 20.0324B, 20.0324Q, 20.0324R, 20.0324S
 NAMES: Boot Cr, Heel Cr, Lace Cr, Arch Cr

DATE: 7/00



- Major Waters
- Numbered Tributaries
- Unnumbered Tributaries
- Road Access
- Previously Catalogued WRIA Numbers
- Currently Catalogued WRIA Numbers
- Site Numbers, Feature Names, etc.

RIVER: SOL DUC

TRIB: BEAVER CREEK
 WRIA: 20.0324
 AREA: S-R5

OVERVIEW MAP
 2000

1-209-X
 510.2
 Borrow Pit