

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 River	<b>Date:</b> 3/28/00
<b>Site Identifier:</b> S-326R-03	<b>WRIA:</b> 20.0326C (P)
<b>River Mile Location:</b> 0.18	<b>RB/LB:</b> RB
<b>Local Name:</b> Unnamed	<b>Trib. to:</b> Johnson Creek (20.0326)
<b>Legal Description:</b> NE¼ Sec 20 T30N R12W	<b>County:</b> Clallam
<b>Habitat Type:</b> Spring Creek	
<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 - Unknown private	

**Directions to site:** North from Forks on highway 101 to M.P. 203.9. Turn left onto SR 113 and follow for 1.5 miles to gravel road to right. This is a private driveway with a gate. Park (do not block gate) and walk the left fork of the driveway to the bridge. Follow the right bank of Johnson Creek downstream for 230 meters to two small right bank tributaries. The furthest downstream tributary is S-326R-03.

**Site Overview:** This is a small spring fed system which is part of a large forested wetland complex. It is located between Johnson and Rainey Creeks, and the toe of the valley wall. This channel receives water from individual springs and seeps as it flows across the forested wetland.

**Habitat Information:**

**Water source:** Springs and seeps from the wetland

**Intermittent/year-around:** Year-around

**Estimated flows (cfs):** Lower end: 0.1 - 0.2 Upper end: 0.01 - 0.05

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

**Adjacent stream temperature:** 6.5 °C

**Other water observations:** Clear water

**Site area measurements:**  Indirect  Direct  Combination

Widths: Channel- 1.0 - 2.0 m	Ponds- NA	Wetlands- See wetland description
Depths: Channel- 3 - 15 cm	Ponds- NA	Wetlands- " " "
Total length surveyed (includes ponds and wetlands): 100 m		

**Total existing habitat area (est.):** 200 m<sup>2</sup>

Spawning area:	50 m <sup>2</sup>
Impounded area:	00 m <sup>2</sup>
Other rearing area:	150 m <sup>2</sup>

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

**Describe spawning habitat:**

- Small aggregate substrate containing a mixture of fines.
- Water might be too shallow for coho spawning.

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

**Describe pond and other rearing habitat:**

- Woody debris, aquatic vegetation and skunk cabbage provide some instream cover.
- Alders that are 40 - 50 years old provide shade (90% coverage) for the lower 40 meters.
- Salmonberry and vine maple provide 80% coverage of shade and cover in the upper 60 meters.
- The channel has a gradient of 8% for the first 40 meters. It then moderates to 1 - 2%.

**Describe inaccessible habitat:** NA

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

- This channel drains a portion of a large wetland. The overall dimensions of the wetland are approximately 700 m long and 200 - 400 m wide. This wetland drains into both Rainey Creek and Johnson Creek. There are four channels that drain into lower 400 m of Johnson Creek. There are eight channels that drain from the wetland into the lower 500 m of Rainey Creek.
- Alder is the predominant shade provider with some conifer mixed in. The canopy closure has a variety of ranges: dense closures of 90 - 100% over the area drained by the smaller tributaries, moderate closure of 40 - 60% along the mainstem reaches, and a total lack of a canopy in the open marsh and beaver pond areas.
- The under story is dense to moderate and is composed of primarily salmonberry, interspersed with stink berry and vine maple.

**Flooding potential:**  Low  Medium  High

- The lower reach back waters during high water. It is probably used as a refuge bay at that time.

**Fish Information:**

**Site entry condition to Johnson Creek (20.0326):**  Poor  Fair  Good

- Egresses into a small backwater eddy, behind a log. The channel has an immediate 8% gradient.

**Coho access and use:**

- Juvenile-  Unknown  None  Poor  Fair  Good
- Adult-  Unknown  None  Poor  Fair  Good
- Unidentified juvenile salmonids were observed during the survey. They appeared to be both young of the year and 1+ parr.
- Coho are documented to spawn in the mainstem of Johnson Creek.

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

- Trout were not identified during the survey. It is assumed that they use this channel.
- Trout were observed in the mainstem.

**Habitat Improvements:**

**Enhancement opportunities:**

- Possible project type
- Pool and weir beaded channel
- Maintain the integrity of the channel and the overall wetland.

Equipment access: No

**Additional Comments:**

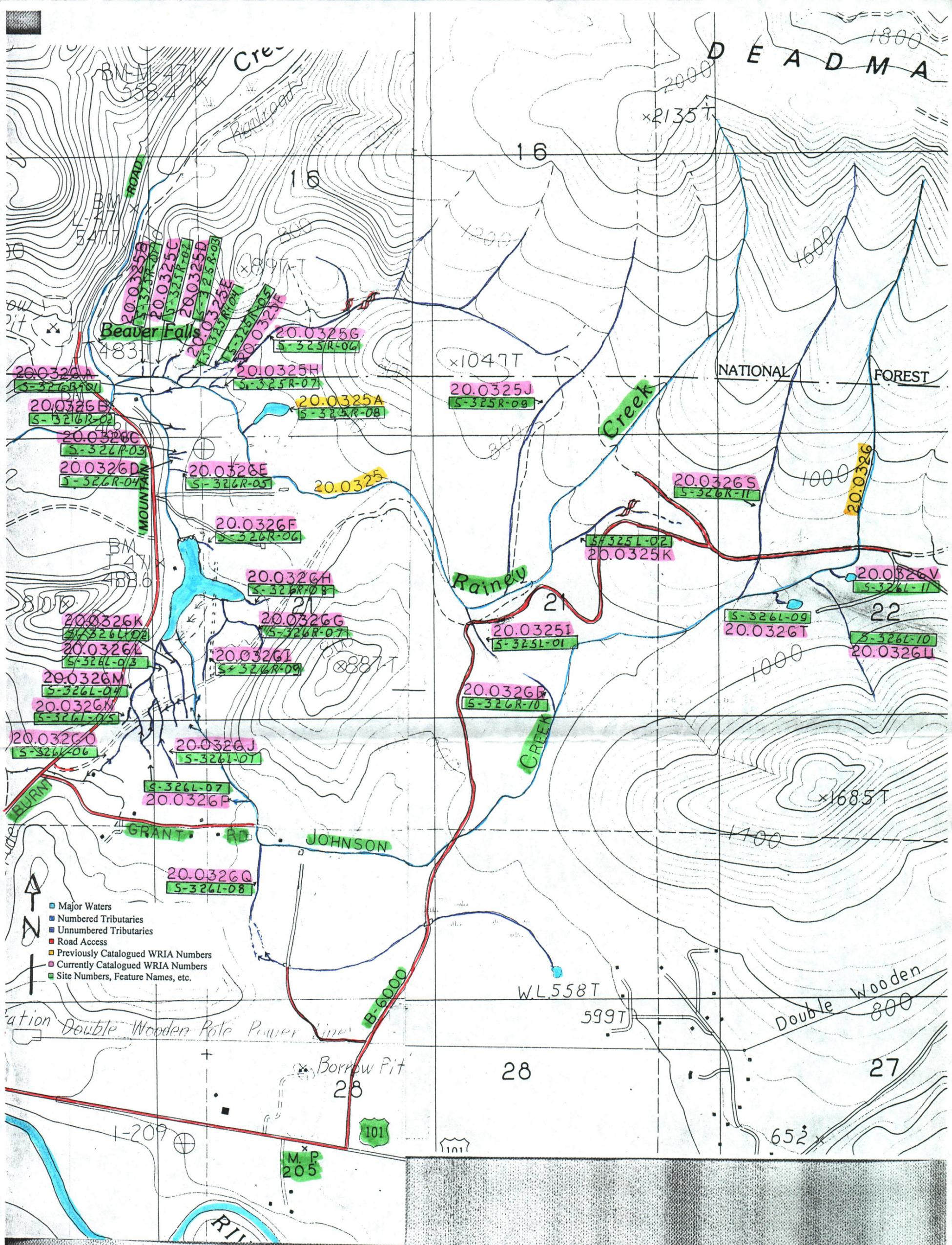
- The Quileute Nation has a spawner index on this reach of Johnson Creek
- Johnson Creek had not been depicted correctly in the WRIA catalog. The associated numbering in relation to this channel is in error. The stream catalog does not show the lower reach of Johnson Creek. A supplemental number 20.0324C, was assigned to represent this creek. However, the catalog shows a left bank tributary (20.0326) to Rainey Creek at RM 1.2. This tributary is in fact, the upper reach of Johnson Creek. It is suggested that all of Johnson Creek be given the WRIA number 20.0326. This document reflects this change.

**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 type="checkbox"/> Juvenile trapping | <input type="checkbox"/> Fishway Report |





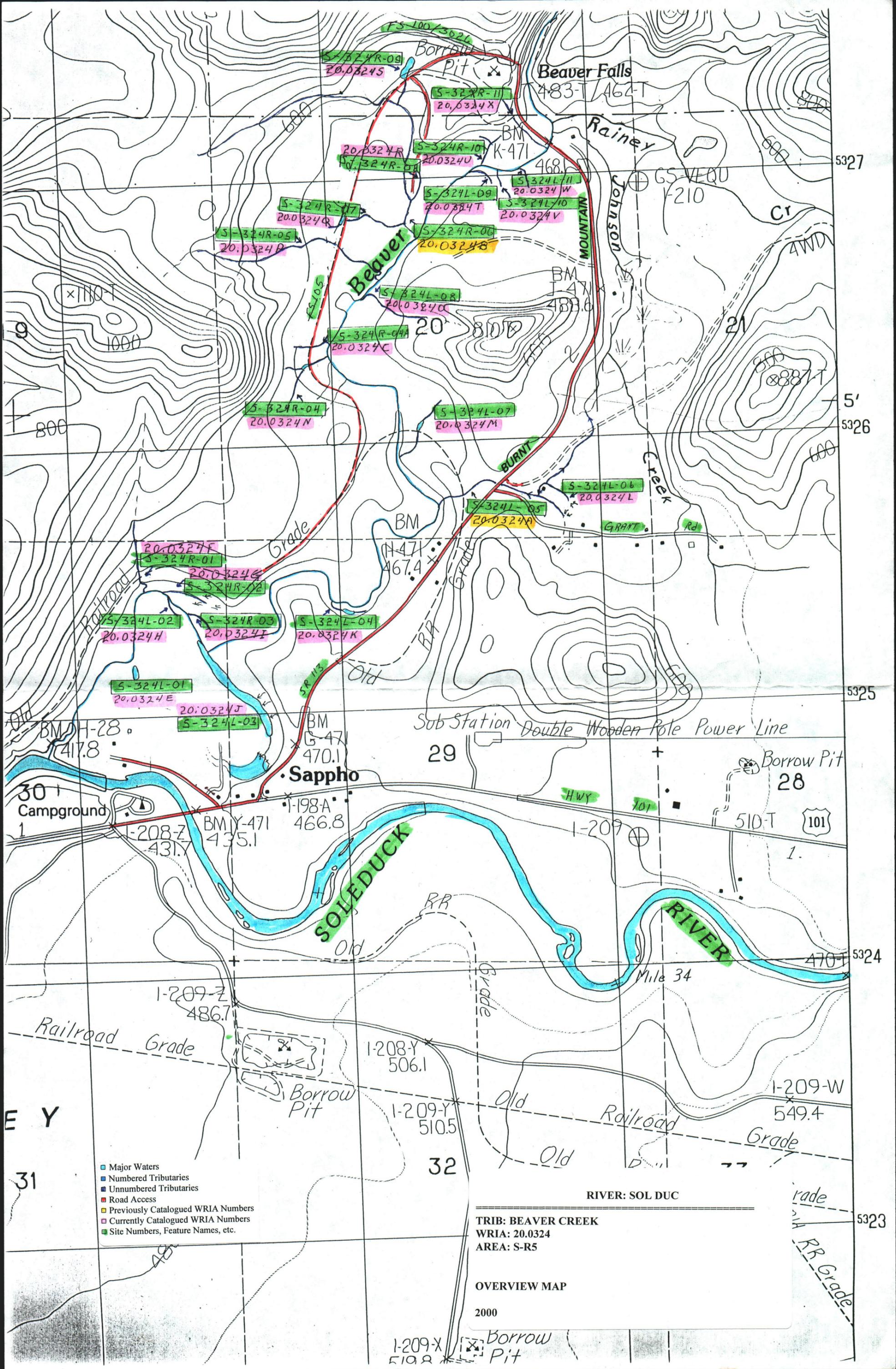
- Major Waters
- Numbered Tributaries
- Unnumbered Tributaries
- Road Access
- Previously Catalogued WRIA Numbers
- Currently Catalogued WRIA Numbers
- Site Numbers, Feature Names, etc.

RIVER: SOL DUC

TRIB: JOHNSON CREEK & RAINEY CREEK  
 WRIA: 20.0326, 20.0325  
 AREA: S-R5

OVERVIEW MAP

2000



- 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  
 519.2  
 Borrow Pit