



**Total existing habitat area (est.): 5,120 m<sup>2</sup>**

Spawning area:	200 m <sup>2</sup>	Tributaries:	100 m <sup>2</sup>	Total:	300 m <sup>2</sup>
Impounded area:	3,000 m <sup>2</sup>	Tributaries:	1,300 m <sup>2</sup>	Total:	4,300 m <sup>2</sup>
Other rearing area:	100 m <sup>2</sup>	Tributaries:	420 m <sup>2</sup>	Total:	520 m <sup>2</sup>

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

**Describe spawning habitat:**

- The aggregate is small in size.
- The water is shallow for coho spawning. Resident trout should be able to utilize the spawning area.

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

**Describe pond and other rearing habitat:**

- There is an extensive series of beaver ponds from the confluence with Johnson Creek to the old grade. They impound portions of several tributaries adding to the complexity of the wetland.
- The lower 100 m are in the upper end of an open marsh. The vegetation consists of sedges, spirea, reed canary grass, pacific nine bark and scattered willow.
- In the next 70 meters, the beaver ponds extend to the old grade. The vegetation consists of deciduous trees, spirea and sedges.
- Most of the beaver dams are still actively maintained.
- The channel has some woody debris, but could use more. There is also cover provided by aquatic vegetation and skunk cabbage.
- The upper channel is well shaded by a deciduous forest. Salmonberry and other brush species provide an understory.
- The channel has a gradient of 2 - 4%.

**Describe unaccessible habitat:** NA

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

- This channel and its tributaries drain the southern portion of a large wetland.
- A portion of the wetland is forested with a 60 - 80-year old deciduous forest with scattered conifers. A portion is open to moderately-open marsh.
- The overall dimensions of the wetlands are approximately 700 m long and 300 m wide.
- The complex is located in the middle reach of Johnson Creek. It is separated from the lower Johnson Creek/Rainey Creek wetland by a low, flat upland. The saturation zone of the two creeks could be interconnected.
- The predominant overhead shade producer is deciduous tree and brush species. There is some scattered conifer. The canopy closure ranges from 90 - 100% over the area drained by the smaller tributaries, to 40 - 60% along the main stems, to total lack of a canopy in the open marsh and beaver ponds.
- The under story (dense to moderate) is mainly salmonberry, interspersed with stink berry and vine maple.
- The forested wetland is the most dominant type of wetland in this complex.

**Flooding potential:**  Low  Medium  High

- Will receive some overbank storage from Johnson Creek during major storm events.
- Does not appear to have flushing flows.

**Fish Information:**

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

- The channel flows into an impounded reach.

**Coho access and use:**

Juvenile-  Unknown  None  Poor  Fair  Good

Adult-  Unknown  None  Poor  Fair  Good

- Juveniles were observed during the survey; the amount of usage is not known.
- It is unknown if the beaver dams impede fry migration.
- Coho spawning has been documented in the mainstem of Johnson Creek - below and above the wetland.

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

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

**Habitat Improvements:**

**Enhancement opportunities:**

Possible project type

- Tie this and three other channels together with a groundwater channel.
- Maintain the integrity of the channel and the overall wetland.

Equipment access: yes

**Additional Comments:**

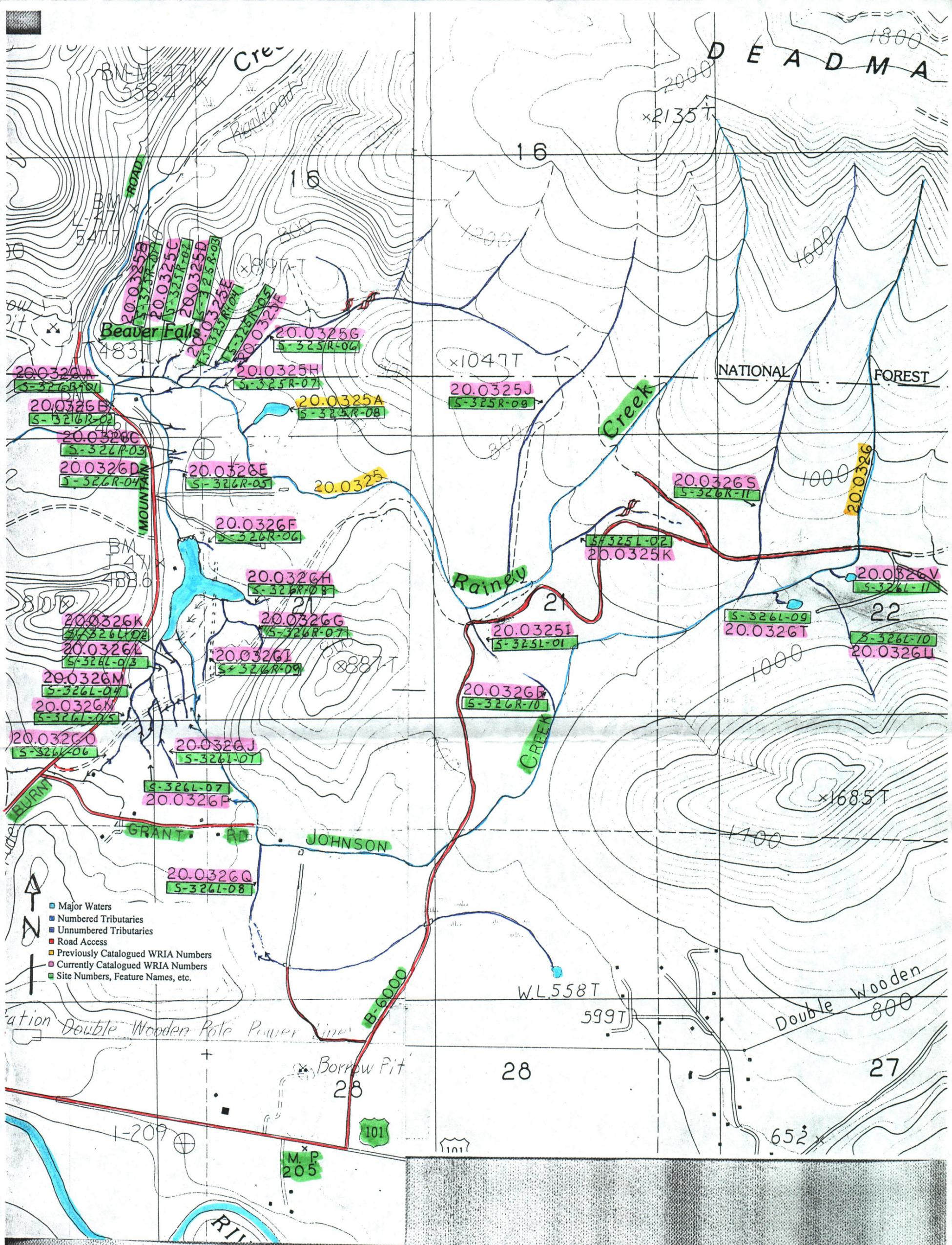
- The Quileute Nation has spawner indexes on the reach of Johnson Creek below the wetland and one above the wetland
- Johnson Creek had not been depicted correctly in the WRIA catalog. The associated numbering in relation to this channel is in error. The stream catalog does not show the lower reach of 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 |



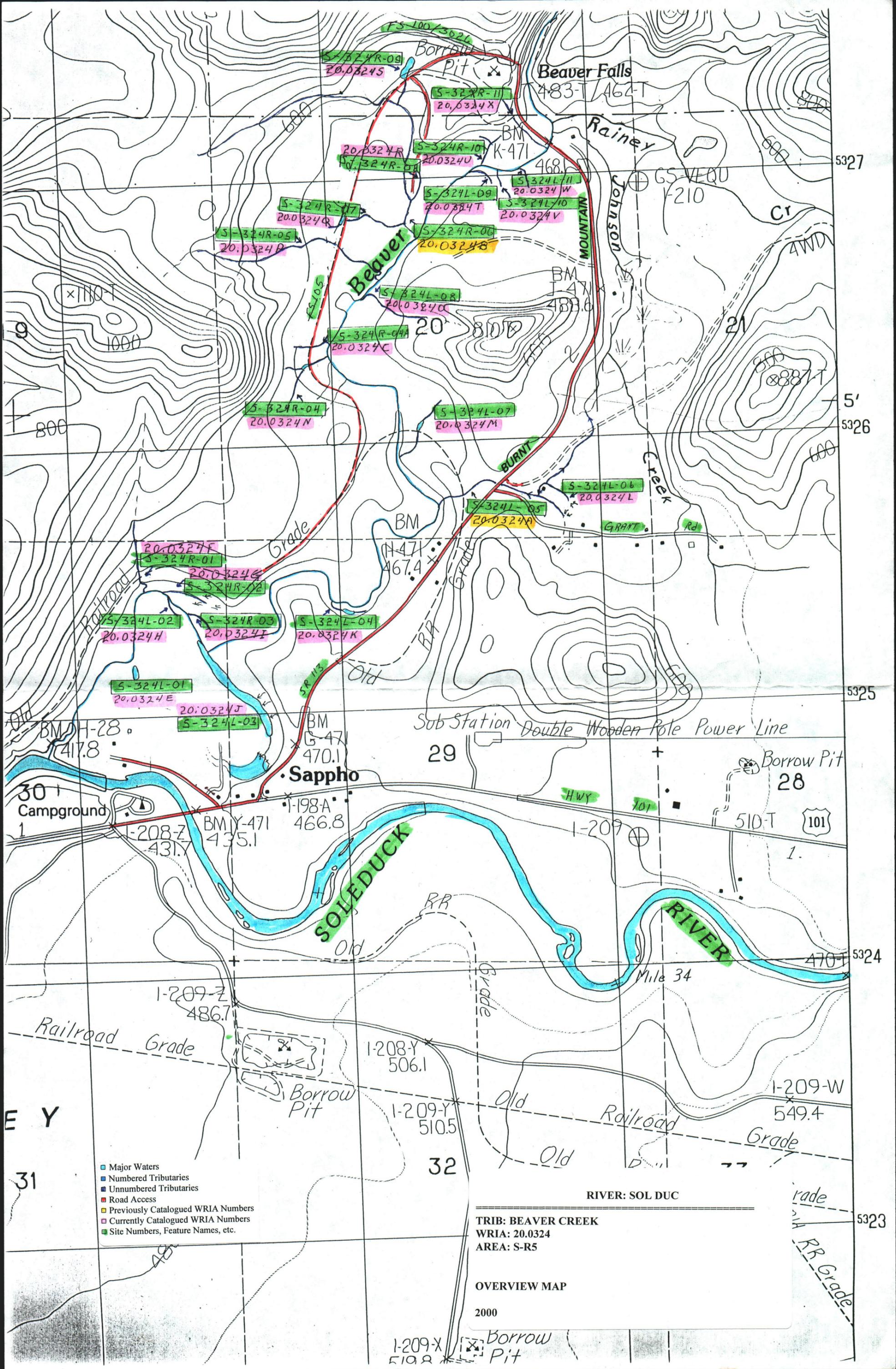


RIVER: SOL DUC

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