

Total existing habitat area (est.): 120 m²

Spawning area: 00 m²

Impounded area: 00 m² both ponds are connected to S-326L-01(which reflects this total.)

Other rearing area: 120 m²

Spawning Habitat conditions: (X) None () Poor () Fair () Good () Excellent

Describe spawning habitat:

- No gravel available.

Rearing habitat conditions: () None () Poor () Fair () Good (X) Excellent

Describe pond and other rearing habitat:

- There are two beaver ponds associated with this channel. Both dams are in channel S-326L-01 and both dams back water into S-326L-03. There is significant water behind both dams and too difficult to differentiate them. The pond size is addressed under S-326L-01.

- There are numerous braids, pools, and small beaver impoundments below the grade.

- Some of these braids may dry up during low flow periods.

- The channel lacks woody debris. Aquatic vegetation and skunk cabbage provide some cover.

- The channel has a gradient of 2 - 4%.

Describe unaccessible habitat: NA

Describe wetland: () Bog (X) Marsh (X) Scrub-shrub Wetland (X) Forested Wetland

- This channel drains a small portion of a much larger wetland. This portion of the wetland is forested with 40 - 60 year old deciduous trees and some scattered conifer.

- The overall dimensions of the wetland 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 zones could be interconnected.

- The predominant overhead shade producer are deciduous trees and brush species with scattered conifer mixed in. The canopy closure ranges from 90 - 100% over the area drained by the smaller tributaries, to 40 - 60% along the main stems, to a total lack of canopy in the open marsh and beaver ponds areas.

- 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 (X) High

- Receives overbank storage from Johnson Creek.

Fish Information:

Site entry condition to S-326L-01 (20.0326J): () Poor () Fair (X) Good

- The channel flows into an impounded reach.

Coho access and use:

Juvenile- () Unknown () None () Poor (X) Fair () Good

Adult- () Unknown (X) None () Poor () Fair () Good

- Juveniles were observed during the survey.

- Coho are documented to spawn in the mainstem of Johnson Creek, below and above the wetland. There is no gravel in this channel.

Other species access and use: () Chum () Pink () Sockeye () Chinook (X) 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

- Remove old culvert from abandoned grade.
- Tie this and three other channels together with a groundwater channel.
- Maintain the integrity of the channel and the overall wetland.

Equipment access: No

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 checked="" type="checkbox"/> Culvert Report |
| <input type="checkbox"/> Other references | <input type="checkbox"/> Spawning surveys | <input 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-326L-03
Site Name: Liens' Marsh
WRIA: X

DATE: 1/23-1/24/01

OBSERVER: Darrow

MINNOW TRAPPING REPORT

TRAP	DATE		DATE		COHO	CATCH			COTTID
	SET	TEMP	PULLED	TEMP		TROUT			
						RBT	CUTT	0+	
1	1/23	7.0°C	1/24	7.0°C	4	0	0	0	8
2	1/23	7.0°C	1/24	7.0°C	4	0	0	0	0
3	1/23	7.0°C	1/24	7.0°C	1	0	0	0	7
4	1/23	7.0°C	1/24	7.0°C	1	0	0	0	7
5	1/23	7.0°C	1/24	7.0°C	9	0	0	0	4
TOTALS:					19	0	0	0	26

COMMENTS:

- Trap 1 was placed about 30m below culvert. Fish ranged from 8 - 9cm and in good shape. Also a N.W. salamander was captured.
- Trap 2 was placed plunge pool of culvert. Fish ranged from 8 - 9cm and in good shape.
- Trap 3 was placed in the beaver impoundment above the culvert along the grade. Fish was about 9 cm. Also a N.W. salamander was captured.
- Trap 4 was placed about 20m further along the beaver impoundment. Fish was about 10cm
- Trap 5 was placed about another 20m along the beaver impoundment. Fish ranged from 8 - 10cm.
- All traps were baited with salmon roe.



RIVER: SOL DUC

TRIB: Johnson Creek - 20.0326

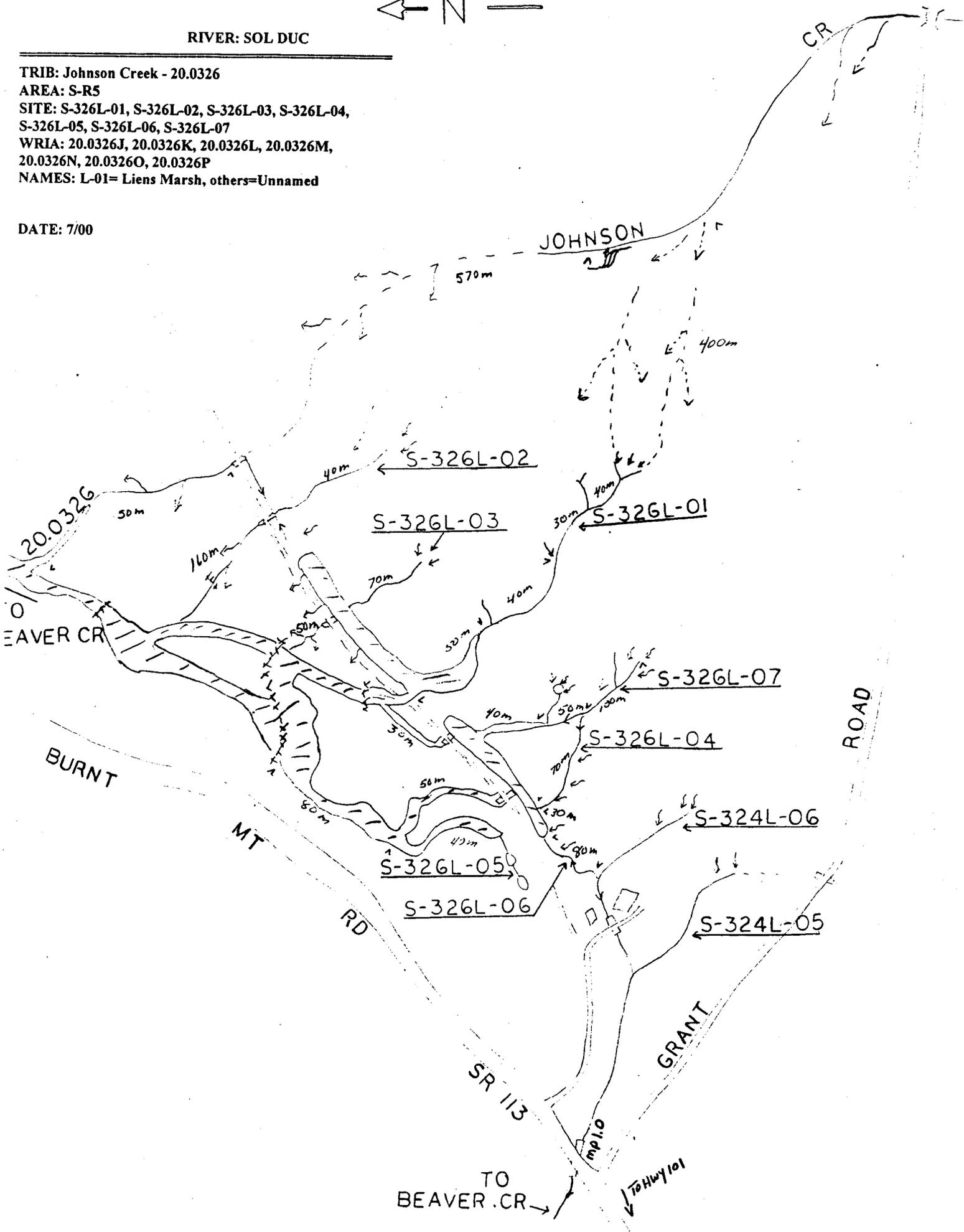
AREA: S-R5

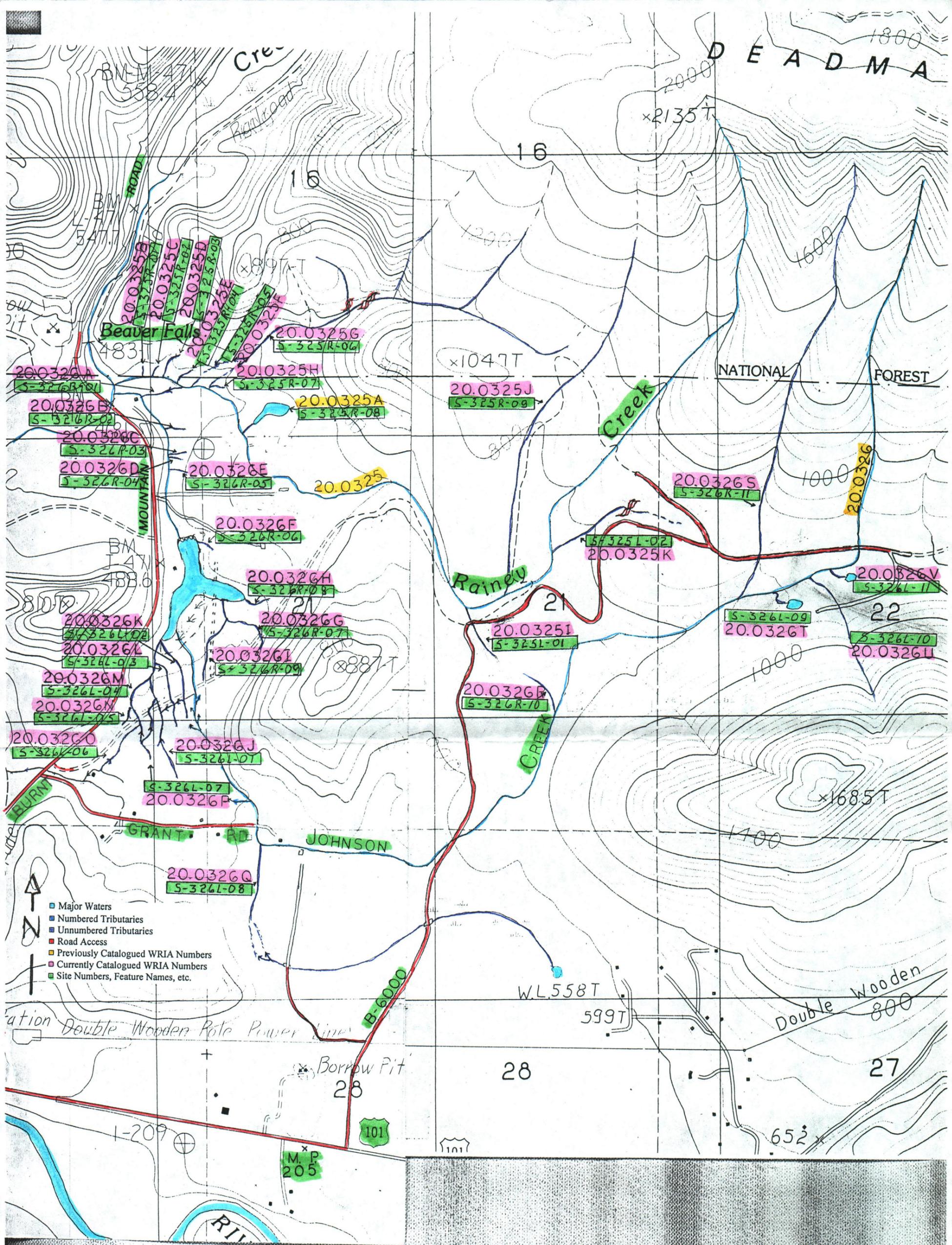
SITE: S-326L-01, S-326L-02, S-326L-03, S-326L-04,
S-326L-05, S-326L-06, S-326L-07

WRIA: 20.0326J, 20.0326K, 20.0326L, 20.0326M,
20.0326N, 20.0326O, 20.0326P

NAMES: L-01= Liens Marsh, others=Unnamed

DATE: 7/00



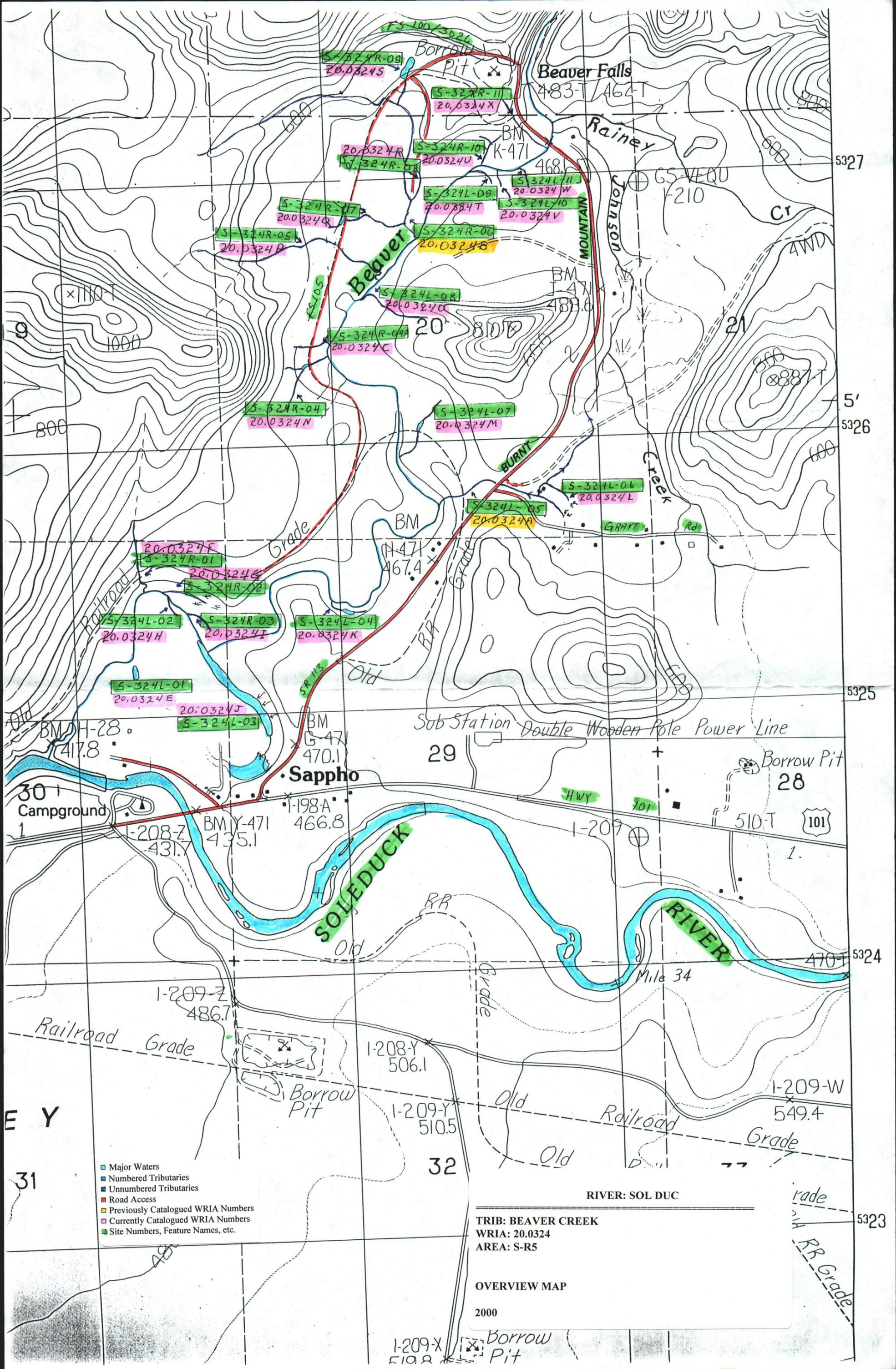


RIVER: SOL DUC

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