

Total existing habitat area (est.): 1480+ m²

Spawning area: 310 m²

Impounded area: 60 m²

Other rearing area: 1110 m²

Spawning Habitat conditions: None Poor Fair Good Excellent

Describe spawning habitat:

- The lower reach of this channel has areas with adequate gravel but there is also a large component of fine sediment.
- The upper reach has a gravel/rubble substrate but it experiences flushing flows.
- The channel in the upper reach is incised.

Rearing habitat conditions: None Poor Fair Good Excellent

Describe pond and other rearing habitat:

- This channel varies in characteristics.
- The lower reach flows through a mixture of alder, brush and conifer. The channel has some small, deep pools. There is LOD for cover.
- The mid reach is an alluvial area. The channel braids through this reach and has some wetland characteristics; it has beaver made pools and ponds.
- The mid reach has some alder as an over story and LOD for instream cover.
- High flows are evident in the mid reach but it appears to help dissipate the energy.
- The upper reach has an incised channel and flushing flows are evident.
- The upper reach flows through conifer and alder forests. There is cover provided by overhang and LOD.
- Flows may be a limiting factor.

Describe unaccessible habitat:

Describe wetland: Bog Marsh Scrub-shrub Wetland Forested Wetland

- The alluvial mid reach has some beaver made pools and ponds.
- The deepening of this flat has caused some areas of alders to die due to inundation.
- There was a lack of aquatic vegetation normally seen in wetlands. Skunk cabbage was observed.

Flooding potential: Low Medium High

Fish Information:

Site entry condition to (20.0307): Poor Fair Good

- This channel has an open egress.

Coho access and use:

Juvenile- Unknown None Poor Fair Good

Adult- Unknown None Poor Fair Good

- Some large coho juveniles were observed during the survey in the mid reach.

Other species access and use: Chum Pink Sockeye Chinook Trout

- Small salmonids were observed in the lower channel. It was assumed they were trout.

Habitat Improvements:

Enhancement opportunities:

- Replace culvert on the FS 2900 road. This is an undersized culvert with ~ 8 inch drop.

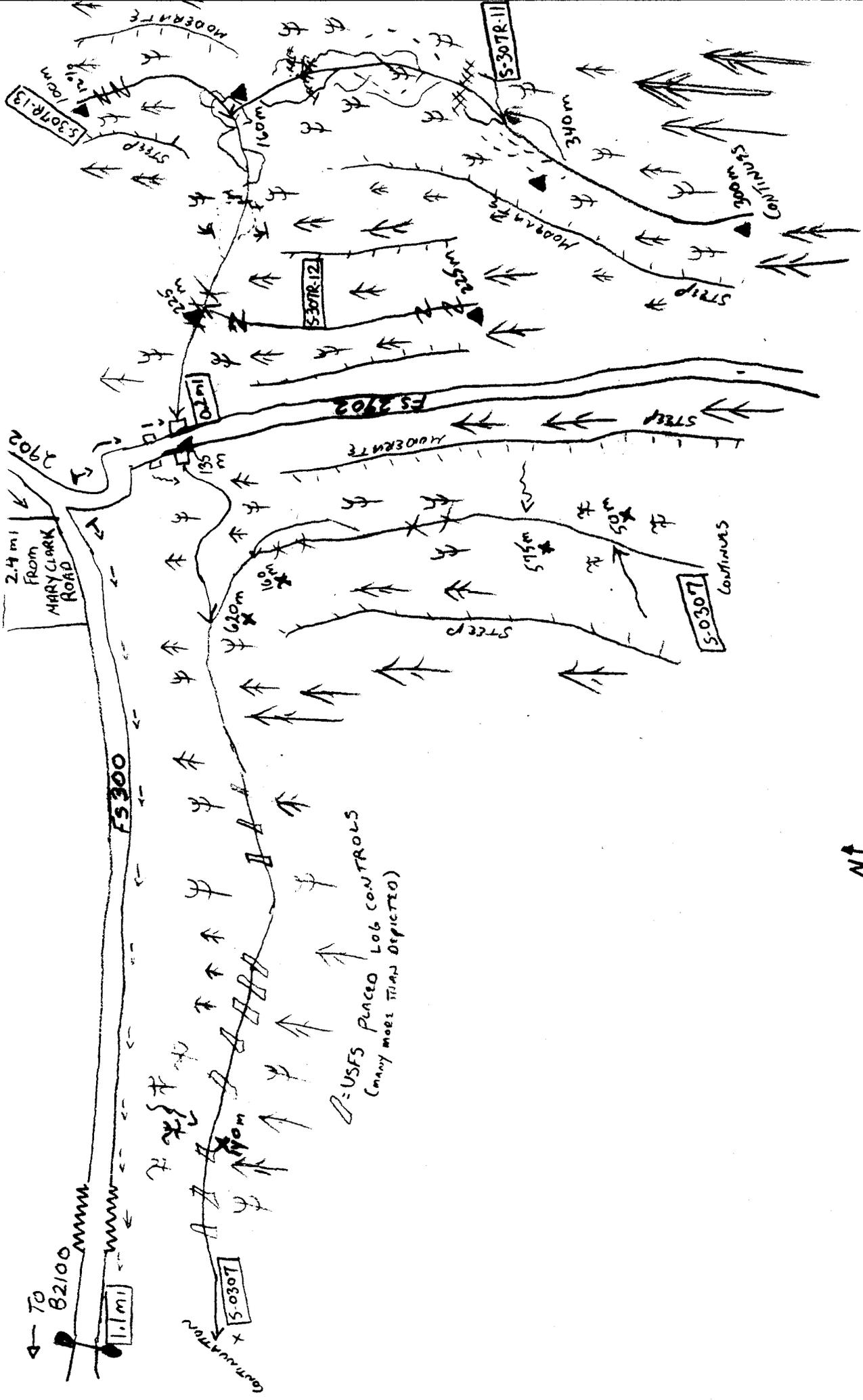
Additional Comments:

- All accessed materials (maps) have depicted the upper reach of this channel as the headwaters of Bockman Creek (20.0320).

Attachments Available:

Contact respective SSHEAR habitat biologist for the following checked items:

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

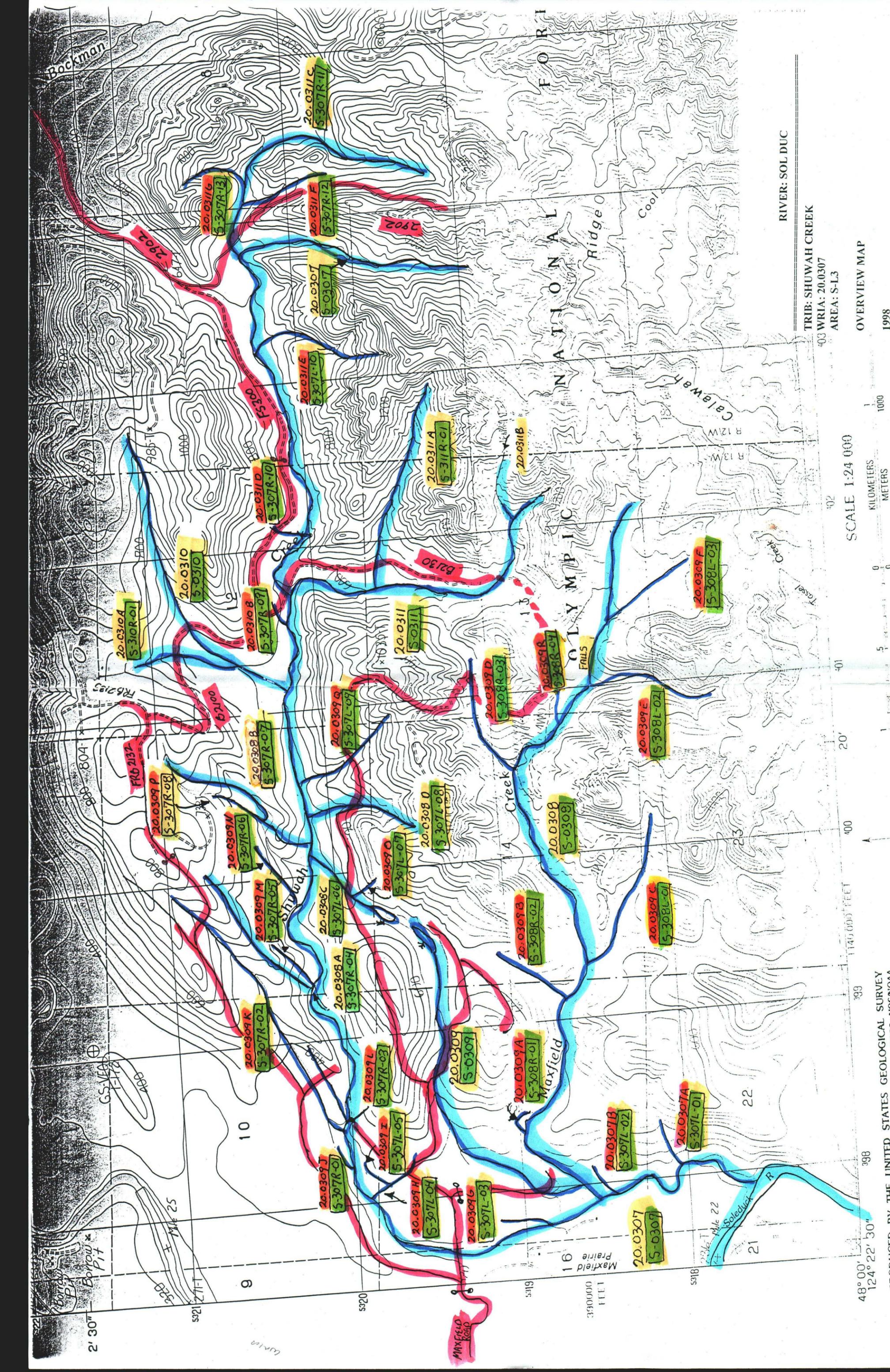


RIVER: SOL DUC

AREA: S-L3
 SITE: S-0307, S-307R-11, S-307R-12, S-307R-13
 WRIA: 20.0307, 20.0311C, 20.0311F, 20.0311G
 NAMES: Shuwah Cr, Bockarm Cr, Unnamed, Unnamed

DATE: 3/98

MAP80F8



RIVER: SOL DUC

TRIB: SHUWAH CREEK
 -03 WRIA: 20.0307
 AREA: S-L3

OVERVIEW MAP
 1998

SCALE 1:24 000

KILOMETERS
 METERS

48° 00' 124° 22' 30"

RIVER: SOL DUC RIVER

AREA: S-L3

AREA MAP

9/96

