

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	<b>Date:</b> 1/18/98
<b>Site Identifier:</b> S-313R-02	<b>WRIA:</b> 20.0313G (P)
<b>River Mile Location:</b> 0.6	<b>RB/LB:</b> RB
<b>Local Name:</b> Shower Cr.	<b>Trib. to:</b> Lake Creek (20.0313)
<b>Legal Description:</b> SE¼ Sec 4 T29N R13W	<b>County:</b> Clallam
<b>Habitat Type:</b> Valley Wall Trib	
<b>Landowner:</b> <input type="checkbox"/> Federal <input checked="" type="checkbox"/> State <input type="checkbox"/> County <input type="checkbox"/> Other Government <input checked="" type="checkbox"/> Private - Possibly RTOC - Possibly DNR	

**Directions to site:**

Travel north from Forks on Highway 101 to the T-line intersection (left at MP 198.1). Turn left off the highway then right at the 4-way junction (100 ft). Continue up the road for 0.6 mile (a key for the gate can be obtained at the RTOC office in Forks) to the first stream crossing. This is Shower Creek (S-313R-02)

**Site Overview:**

This second order valley wall tributary drains approximately 140 acres of forest land. It sources on Tye ridge at about 1200 ft. As it flows toward the valley floor it gains water from one major tributary and numerous seeps and springs. The head wall tributaries are in excess of 30% gradient moderating to 12% at the upper end of the survey, then moderating further to 3% just above the road crossing. The culvert at this crossing is presently a barrier. Downstream of the road, the stream drops through a 100-m pool/step reach of up to 25% gradient just before it enters Lake Creek.

**Habitat Information:**

**Water source:** Surface runoff

**Intermittent/year-around:** Lower reach possible year-round

**Estimated flows (cfs):** Lower end: 0.5 - 5.0 Upper end: 0.1 - 2.0

**Water temperatures:** Lower end: 4.5 - 7.5°C Upper end: 6.5 - 7.0°C

**Adjacent stream temperature (Lake Creek):** 5.0 - 7.0°C

**Other water observations:** Clear water

**Site area measurements:**  Indirect  Direct  Combination

Widths: Channel- 4 - 5 m Ponds- NA Wetlands- NA

Depths: Channel- 10 - 15 cm Ponds- NA Wetlands- NA

Total length surveyed (includes ponds and wetlands): 800 m

**Total existing habitat area (est.):** 3000 m<sup>2</sup>

Spawning area: 300 m<sup>2</sup>

Impounded area: 0 m<sup>2</sup>

Other rearing area: 2700 m<sup>2</sup>

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

**Describe spawning habitat:**

- The best spawning area is between the culvert and an old grade 200 m downstream.
- The stream habitat is more suitable for trout than for coho.

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

**Describe pond and other rearing habitat:**

- There is no pond habitat associated with this channel.
- There are some nice pools and riffles that provide good trout habitat.

**Describe unaccessible habitat:**

- Above the culvert barrier there is about 1800 m<sup>2</sup> of habitat in 20.0313G and an additional 600 m<sup>2</sup> in trib 20.0313H. About 400 m<sup>2</sup> has a gradient of 3 - 5%. The rest has a gradient of up to >12%. Observations throughout the rest of the Lake Creek system indicate this type of habitat is being well used.
- The riparian zone is in good shape below the culvert and above the fork. In between these two areas, there is blown down. At this time, the vegetation is recovering and providing shade.
- Spawning habitat is available. The aggregate ranges from sand to boulders with the average being larger gravel to rubble. This limits the opportunities to the tailout of the pools. Observations throughout the rest of the Lake Creek system indicate this type of habitat is being well used.

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

- There are no associated wetlands to this channel.

**Flooding potential:**  Low  Medium  High

- The system is subject to flashy flows from within and not from river flooding.

**Fish Information:**

**Site entry condition to Lake Creek:**  Poor  Fair  Good

- The stream enters on a riffle and then there is +15% gradient to negotiate.

**Coho access and use:**

Juvenile-  Unknown  None  Poor  Fair  Good

Adult-  Unknown  None  Poor  Fair  Good

- No coho were observed during the survey and the steep gradient makes it doubtful that coho use this stream.

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

- On 2/4/98, a trap was set and fished: One 18 - 20 cm cutthroat trout was caught.

**Habitat Improvements:**

**Enhancement opportunities:**

Possible project type:

- Remove or replace culvert to pass fish.
- Maintain the integrity of the stream.

Equipment access: Good access to the culvert.

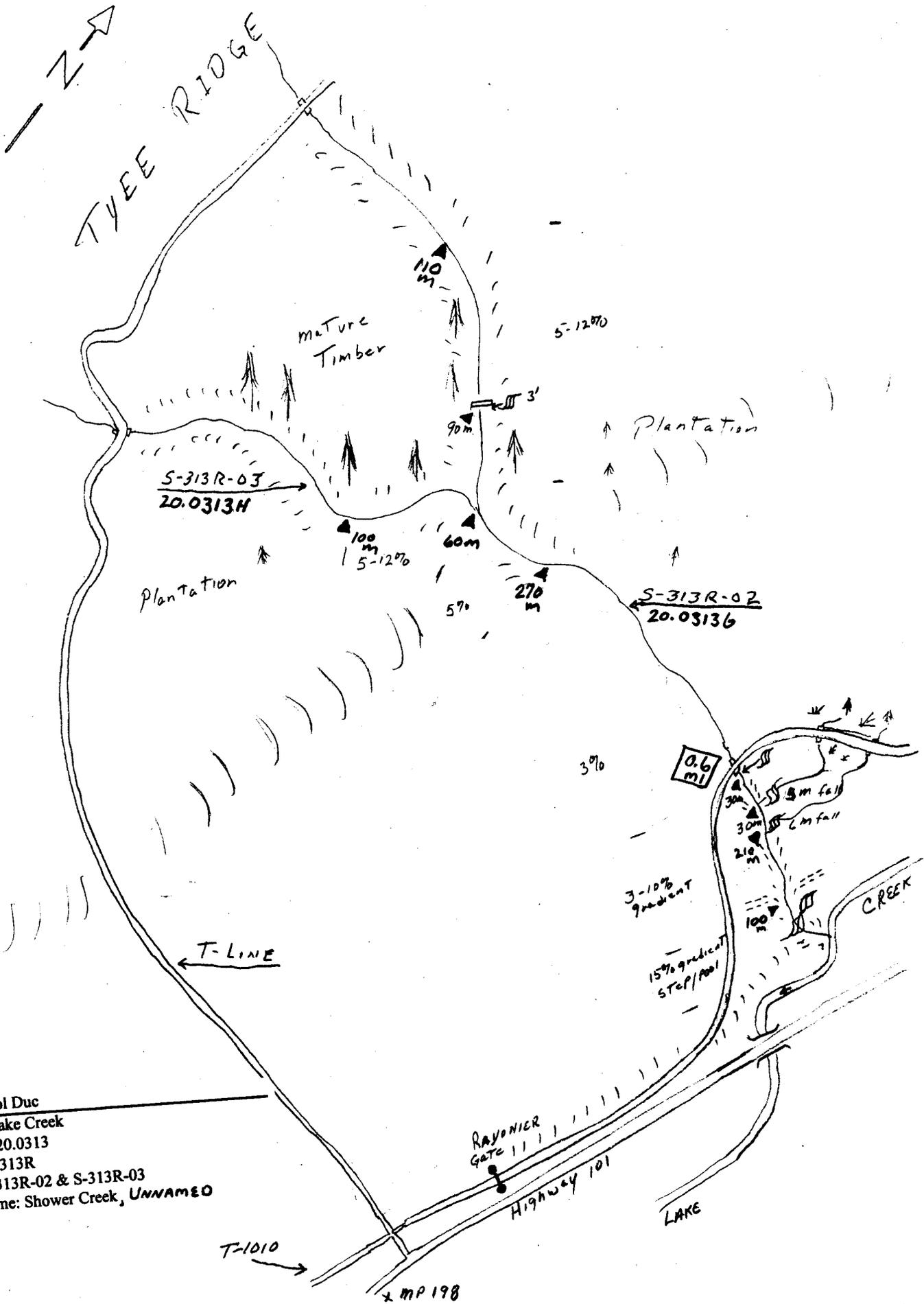
**Additional Comments:**

- Verbal communications with Chris Byrnes (WDFW Habitat Manager): this road is a temporary access and is supposed to be abandoned when timber harvest is completed.

**Attachments Available:**

**Contact respective SSHEAR habitat biologist for the following checked items:**

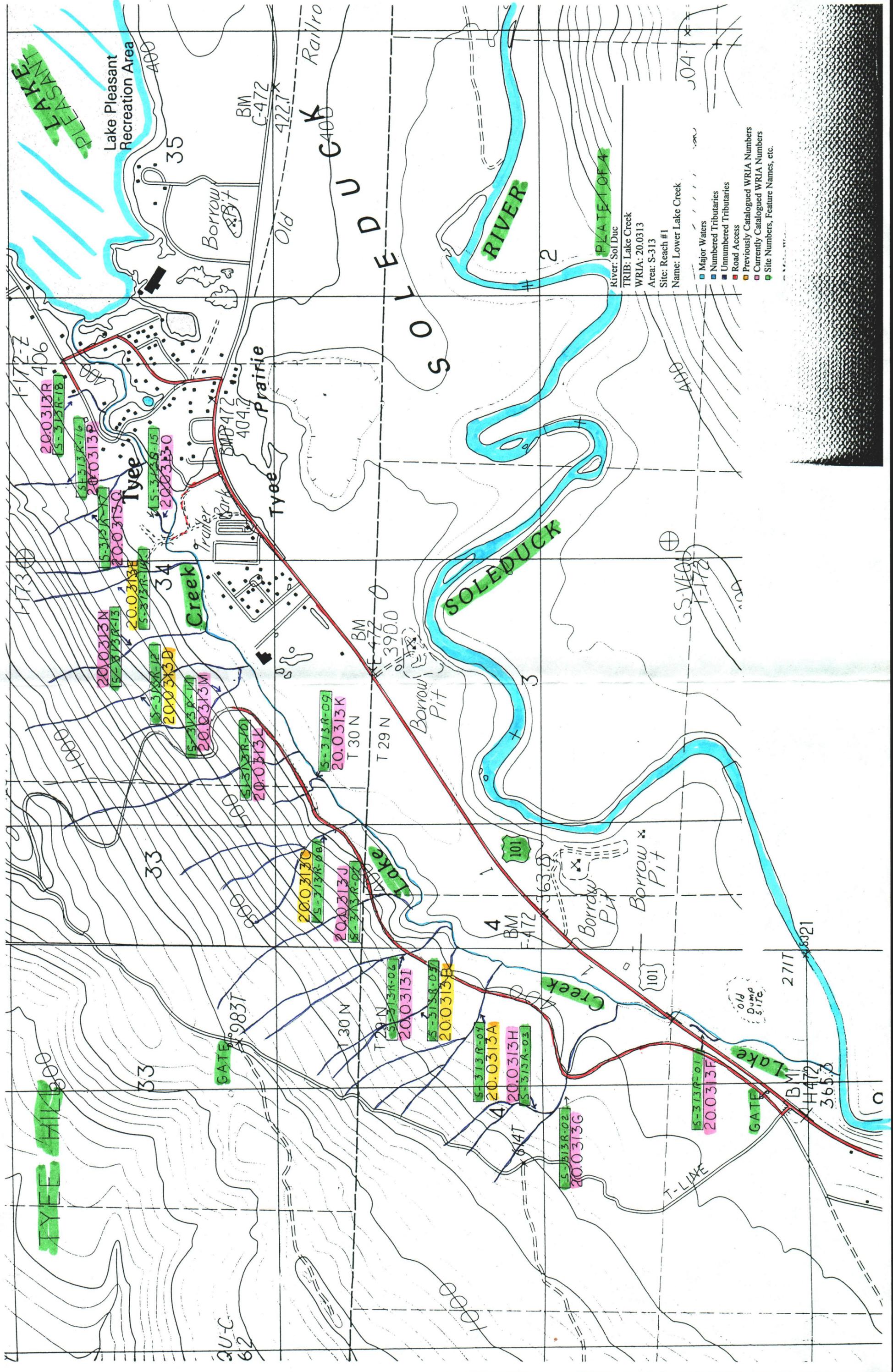
- |   |  |   |  |
|---|--|---|--|
| <input type="checkbox"/> Aerials          | <input checked="" type="checkbox"/> Sketch | <input checked="" type="checkbox"/> Maps              | <input checked="" type="checkbox"/> Culvert Report |
| <input type="checkbox"/> Other references | <input type="checkbox"/> Spawning surveys  | <input checked="" type="checkbox"/> Juvenile trapping | <input type="checkbox"/> Fishway Report            |



River: Sol Duc  
 TRIB: Lake Creek  
 WRIA: 20.0313  
 Area: S-313R  
 Site: S-313R-02 & S-313R-03  
 Site Name: Shower Creek, UNNAMED

T-1010 →

x MP 198



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

River: Lake Creek  
 WRIA: 20.0313  
 Area: S-313  
 Site: Reach #1  
 Name: Lower Lake Creek

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 365.0

BM  
 472  
 365.0

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 472  
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