

**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> Powell
<b>River System:</b> Sol Duc	<b>Date:</b> 3/2/00
<b>Site Identifier:</b> S-330L-02	<b>WRIA:</b> 20.0330A
<b>River Mile Location:</b> 0.38	<b>RB/LB:</b> LB
<b>Local Name:</b> Powerline Creek	<b>Trib. to:</b> Anton Cr (20.0330)
<b>Legal Description:</b> NE¼ Sec26 T30N R12W	<b>County:</b> Clallam
<b>Habitat Type:</b> Spring creek	
<b>Landowner:</b> (X) Federal ( ) State ( ) County ( ) Other Government (X) Private - National Forest, USFS - Small land ownerships	

**Directions to site:**

Starting at Forks (Tillicum Park), drive north on Highway 101 for 14.2 miles (mp 206) to Bear Creek Road. Take a left on this road and follow for 1.7 miles. The double culverts are Anton Creek (S-0330) and just beyond them is a box culvert which is S-330L-02.

**Site Overview:**

This channel is diverse in characteristics. It offers both rearing and some limited spawning opportunities for coho. The lowest reach from the egress to the main road crossing is an incised channel with a gradient of 6 - 7%. The substrate material in this short reach is composed of primarily rock with some boulders and gravel. The conifers provide the canopy and there are some old large woody debris pieces in the channel. Upstream from the Bear Creek Road crossing to the powerlines, the stream meanders through an alder dominant flat. The gradient is ~ 1% and the channel is deep in sections. There are some areas with spawning gravel but the channel has a predominant silt and fine gravel substrate. Additional water springs from adjacent sedge/grass areas and this channel does not appear to be affected by flushing flows. Upstream from the powerlines, the channel braids throughout a sedge wetland. The braids are primarily narrow and deep and flow from wooded wetlands.

**Habitat Information:**

**Water source:** Springs and associated tributaries

**Intermittent/year-around:**

- Year-around

**Estimated flows (cfs):** 2 egress

**Water temperatures:** 7.5° C

**Adjacent stream temperature:** 7° C (20.0330)

**Other water observations:**

- Tannic water

**Site area measurements:**  Indirect  Direct  Combination

Widths: Channel- 1 m - 2 m Ponds- NA Wetlands- 0.3 m - 1 m

Depths: Channel- 15 cm - 30 cm Ponds- NA Wetlands- 15 cm - 60+ cm

Total length (includes ponds and wetlands): ~775+ m (trout habitat above end point)

**Total existing habitat area (est.):** 900+ m<sup>2</sup>

Spawning area: 400 m<sup>2</sup>

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

Other rearing area: 500+ m<sup>2</sup>

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

**Describe spawning habitat:**

- There is some spawning gravel in the lower reach, downstream of the wetland. A supplemental spawner survey is occasionally conducted from the egress to RM 0.2.
- The lowest reach, downstream of Bear Creek Road has a gradient of 6 - 7%. The substrate has boulder and rock mixed with gravel.
- The reach upstream to the powerlines has areas of spawning gravel. The flows are stable in this system and substrate fines are prominent in this low gradient section.
- Upstream from the powerlines, the channel braids through a sedge wetland. The channels are narrow and deep with a mud substrate.

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

**Describe pond and other rearing habitat:**

- The reach between the main road and the powerlines, meanders through an alder dominant area. There are sections with heavy brush, some woody debris, and the channel is also deep in some areas. Tannic water also offers an element of cover.
- Between the powerlines and the forested wetlands, the channel has several main braids. These braids are in an open sedge wetland. There are few pieces of woody debris but the channels are primarily narrow and deep. Cover is provided by the vegetation.
- The upper reaches braid from wooded wetland areas. The flows appear to originate from NE upper slope tributaries that subsurface and reemerge in this area.
- Flows appear stable through the reaches.

**Describe unaccessible habitat:**

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

- The mid reach is a scrub-shrub wetland. Plants observed were alder, salal, sedges, skunk cabbage and various types of brush.
- Upstream, there are braids throughout a sedge wetland. Canary grass is prominent.
- The waters originate from forest wetland areas. Alder, brush, skunk cabbage and sedges were observed.

**Flooding potential:**  Low  Medium  High

- This system appears to have stable flows.

**Fish Information:**

**Site entry condition to Anton Cr (20.0330):**  Poor  Fair  Good

- Open egress.

**Coho access and use:**

Juvenile-  Unknown  None  Poor  Fair  Good

Adult-  Unknown  None  Poor  Fair  Good

- Coho fry were observed in the mid reach.
- Occasional spawner surveys are conducted from the egress to RM 0.2.

**Other species access and use:**  Chum  Pink  Sockeye  Chinook  Trout  
- Numerous cutthroat were trapped and observed.

**Habitat Improvements:**

**Enhancement opportunities:**

**Additional Comments:**

**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 type="checkbox"/> Culvert Report
<input checked="" type="checkbox"/> Other references	<input type="checkbox"/> Spawning surveys	<input checked="" type="checkbox"/> Juvenile trapping	<input type="checkbox"/> Fishway Report

UPSTREAM DEPICTED  
ON SEPARATE MAP

14.2 MILES EAST  
ON 101 TO mp 206.  
LEFT ON  
BEAR CR. RD.

RIVER: SOL DUC

TRIB: Bear Creek - 20.0329 (3 of 15)

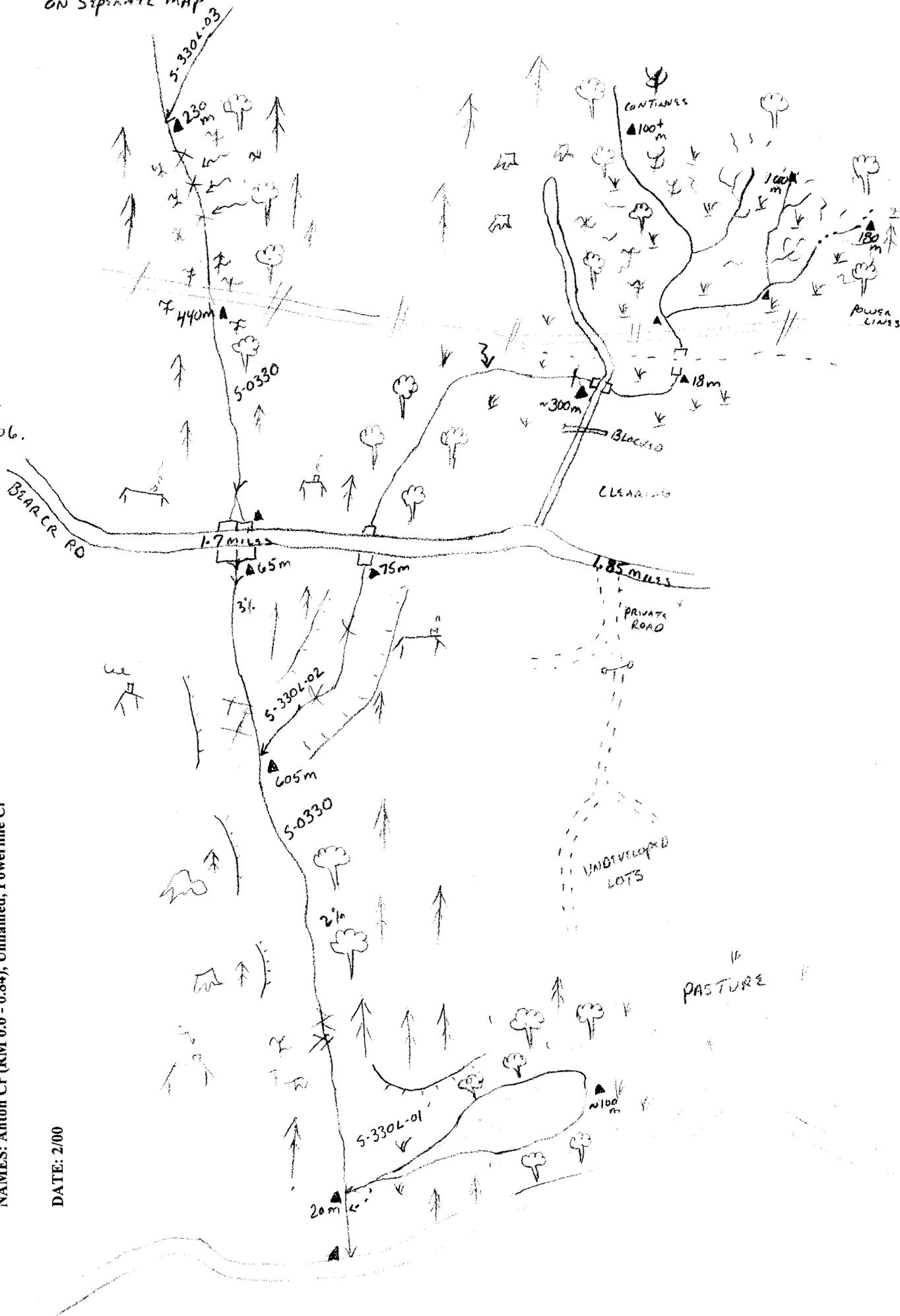
AREA: S-R6

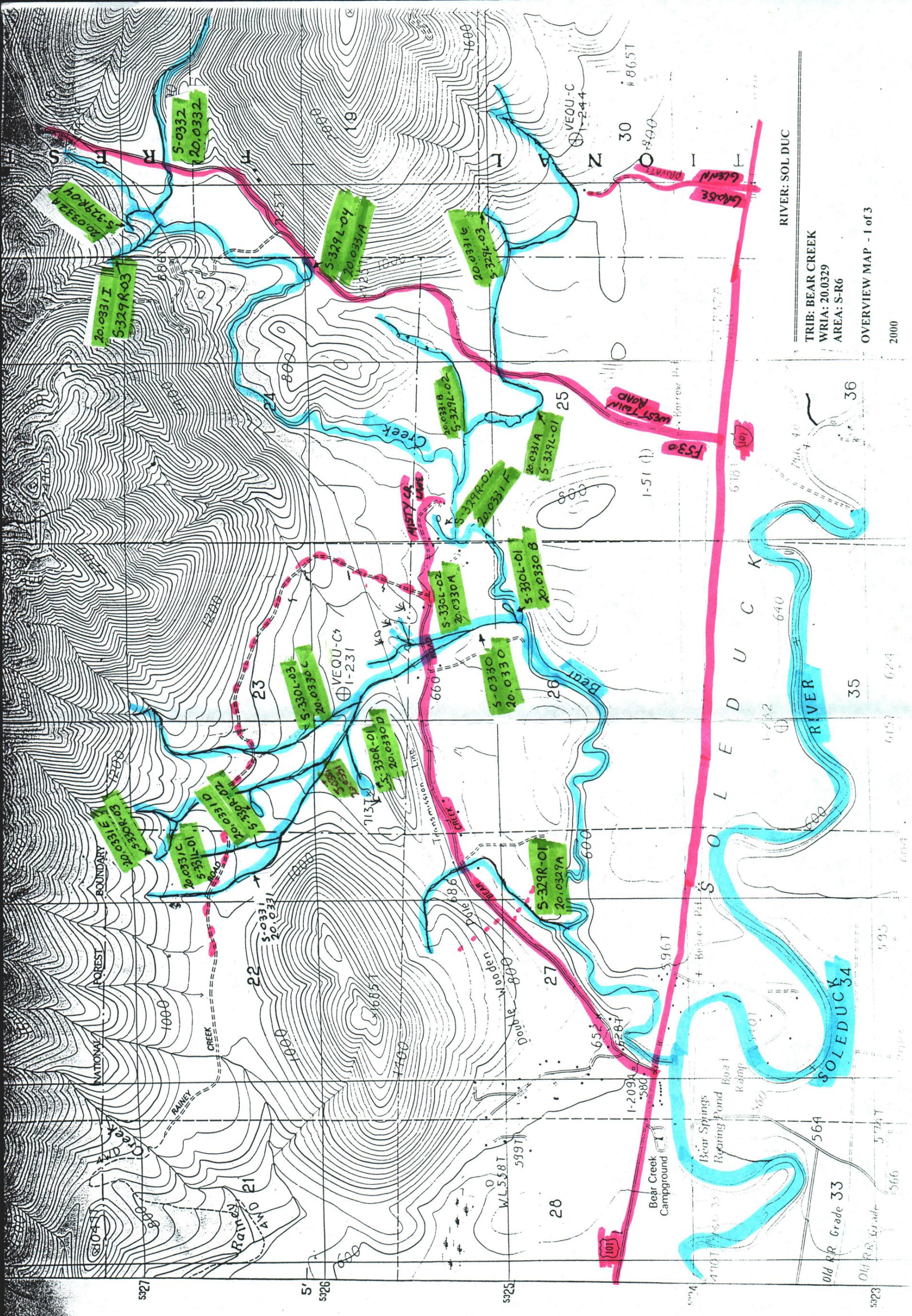
SITE: S-0330, S-330L-01, S-330L-02,

WRIA: 20.0330, 20.0330B, 20.0330A

NAMES: Anton Cr (RM 0.0 - 0.84), Unnamed, Powerline Cr

DATE: 2/00





TRIB: BEAR CREEK  
 WRIA: 20.0329  
 AREA: S-R6

OVERVIEW MAP - 1 of 3

2000