

**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:

Region: North Coast	Observer(s): Powell
River System: Sol Duc	Date: 3/15/00
Site Identifier: S-330L-03	WRIA: 20.0330C (P)
River Mile Location: 0.84	RB/LB: LB
Local Name: Smoking Creek	Trib. to: Anton Cr (20.0330)
Legal Description: SW¼ Sec23 T30N R12W	County: Clallam
Habitat Type: Valley wall tributary	
Landowner: (X) Federal () State () County () Other Government () Private - National Forest, USFS	

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). Follow S-0330 upstream to the first encountered left bank tributary, ~ 670 m. This is S-330L-03. The upper half reach can be accessed by follow Bear Cr Road for 1.9 miles. There is an old grade to the left. The road is impassable for vehicles; you must walk in. Follow the grade to the first large channel crossing (~1.0 mi). This is S-330L-03.

Site Overview:

This channel experiences either large flushing flows or the observed characteristics are from a past torrent. Areas of down cutting, unstable side slopes, and large alluvial accumulations were noted throughout the survey. The lower half reach, downstream of the grade crossing, has a wide valley floor, mixed forest, some limited large woody debris, and a gradient of ~ 3%. It lacks pools and has areas of large gravel accumulations. The upper reach has primarily an alder canopy with conifers on the moderating side slopes. Brush becomes increasingly heavy. This reach has areas that are down cutting and exposing bedrock. There are a some old large woody debris and boulders that form pools. The stream gradually gains gradient 5 to 12%, where the survey ended. This channel appears to be in flux. The channel characteristics were constantly changing.

Habitat Information:

Water source: Tributaries and surface runoff

Intermittent/year-around:

- Probably intermittent

Estimated flows (cfs): 2 -3

Water temperatures: 7° C

Adjacent stream temperature: 7° C (20.0330)

Other water observations:

Site area measurements: Indirect Direct Combination

Widths: Channel- 1 m - 2.5 m Ponds- NA Wetlands- NA

Depths: Channel- 8 cm - 20 cm Ponds- NA Wetlands- NA

Total length (includes ponds and wetlands): 1350+ m (trout habitat above end point)

Total existing habitat area (est.): 2362+ m²

Spawning area: 600 m²

Impounded area: 0 m²

Other rearing area: 1762 m²

Spawning Habitat conditions: None Poor Fair Good Excellent

Describe spawning habitat:

- The lower reach has areas of gravel. The channel is characterized as riffle; there is a lack of pools in this reach. Also, there are large shallow alluvial areas. The gradient is ~ 2 - 3%.
- The upper reach has more prominent areas of boulder, cobble and bedrock. The smaller areas of gravel are more conducive to resident trout. The gradient increases to 12% where the surveyed stopped.

Rearing habitat conditions: None Poor Fair Good Excellent

Describe pond and other rearing habitat:

- The lower reach has few pools. There are some pieces of woody debris but the channel is more riffle in characteristics. Also, there are large shallow alluvial areas. It is assumed that water would be subsurface in these areas during a low flow regime.
- Cover is also provided by some woody debris, overhang and brush.
- The riparian area is a mix of mature alder and conifer.
- The gradient becomes increasingly steep (up to 12%) above the grade crossing. Bedrock, boulder and cobble become prominent.
- The upper half reach has some old woody debris, blow down, overhang, and brush for cover. There is a riparian of alders with conifers along the slopes.
- Evidence of high flows was observed throughout the survey.

Describe inaccessible habitat:

Describe wetland: Bog Marsh Scrub-shrub Wetland Forested Wetland

Flooding potential: Low Medium High

- This channel appears to have large flushing flows, or it experienced a past torrent.

Fish Information:

Site entry condition to (20.0330): Poor Fair Good

- There is an open egress into Anton Creek.

Coho access and use:

Juvenile- Unknown None Poor Fair Good

Adult- Unknown None Poor Fair Good

Other species access and use: Chum Pink Sockeye Chinook Trout

- Resident trout may utilize this stream.

Habitat Improvements:

Enhancement opportunities:

Additional Comments:

Attachments Available:

Contact respective SSHEAR habitat biologist for the following checked items:

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

