

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: 3/12/97
Site Identifier: S-345L-01	WRIA: 20.0345A
River Mile Location: 0.05 (hip chained)	RB/LB: LB
Local Name: Nelson Springs	Trib. to: 20.0345
Legal Description: NE¼ Sec 33 T30N R10W	County: Clallam

Habitat Type: Slough and terrace trib

Landowner: (X) Federal () State () County () Other Government () Private
- Possibly M&R Timber Co. or National Forest land.
- Olympic National Park

Directions to site:

Starting at Forks (Tillicum Park) drive north on Highway 101 for 24.4 miles to F.S. 2918 and take a right on this road. Follow this road for 2.25 mi, the channel crossing the road at this point is the headwaters to the slough (S-345L-01).

Site Overview:

This wide and deep slough type channel offers optimum rearing conditions and high river water refuge. Part of it's source is a terrace tributary that flows from a forested wetland, down a moderate/steep reach (with a small section of boulder/cascades) and into the head end of the slough. The slough type channel flows through an alder flat with a substrate of mud but there are a few small areas of gravel that could be utilized for spawning. This channel only seems to lack in abundant instream cover.

Habitat Information:

Water source: Ground water, springs, Surface runoff, and road runoff.

Intermittent/year-around:

- Year-around

Estimated flows (cfs): 4

Water temperatures: Did not take

Adjacent stream temperature: 4.0° C (20.0096)

Other water observations: Water is clear

Site area measurements: () Indirect (X) Direct () Combination

Widths: Channel- 1.5 m - 4.5+ m Ponds- Wetlands-

Depths: Channel- 5 cm - 1+ m Ponds- Wetlands-

Total length: 625 m

(There is a terrace tributary that feeds this slough which has a pond and forested wetlands - it is unaccessable to coho.)

Total existing habitat area (est.): 1875 m²

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Spawning area: ~200 m²

Impounded area: 0

Other rearing area: 1675 m²

Spawning Habitat conditions: None Poor Fair Good Excellent

Describe spawning habitat:

- There are a few areas, mostly in the upper reach, where there may be some spawning opportunities, but most of the channel has mud substrate with gravel/rock mixed in.

Rearing habitat conditions: None Poor Fair Good Excellent

Describe pond and other rearing habitat:

- This channel flows parallel to the river.
- The lower and mid reaches are mostly wide and deep.
- The upper reach is more narrow with a variety of depths.
- The channel flows through an alder bottom with an additional canopy of vine maple and a few conifers.
- There is some small woody debris and LOD but this channel could use more for cover.
- There was some minor beaver activity in this channel but dams were passable at time of survey.
- The head end of the channel is conifer and water can be seen bubbling from the ground.
- There is a terrace tributary in the upper reach which feeds this channel. This tributary has a short, steep section with boulder/cascades which would be a barrier to coho.
- There is a small, shallow ponded area and forested wetland on the upper terrace which this tributary flows through.

Describe unaccessible habitat:

- There is a terrace tributary that feeds this slough which has a short reach with a steep gradient; it is probably a barrier to coho.

Describe wetland: Bog Marsh Scrub-shrub Wetland Forested Wetland

- (There is a forested wetland that is part of the terrace tributary that feeds this slough.)

Flooding potential: Low Medium High

- This channel appears to backwater and receive overbank storage in its lower reach.

Fish Information:

Site entry condition to (Sol Duc River 20.0096): Poor Fair Good

- This channel joins S-0345, 85m upstream of river egress.
- S-0345 has a good egress with a downstream eddy made by boulders.

Coho access and use:

Juvenile- Unknown None Poor Fair Good

Adult- Unknown None Poor Fair Good

- Coho utilization should be high in the slough.
- The channel that feeds into the slough has a section with a short, steep gradient. It is unlikely that coho could migrate above that point.
- Numerous 0+ salmonids (no ID) were observed on 8/28/97.

Other species access and use: Chum Pink Sockeye Chinook Trout

- It is likely that trout utilize this system.
- It is suspected that resident trout have some limited use of the channel that feeds into this slough. A large trout was seen downstream of the FS 2918 road culvert and above the boulder/cascades.
- On 8/28/97, numerous fry (no ID but assume trout due to size) were observed between FS 2918 road culvert and the slough section.

Habitat Improvements:

Enhancement opportunities:

- LOD or brush bundles

Attachments Available:

Contact respective SSHEAR habitat biologist for the following checked items:

Aerials

Sketch

Maps

Culvert Report

Other references

Spawning surveys

Juvenile trapping

Fishway Report

NORTH COAST OFF CHANNEL SURVEY
SUBSEQUENT SITE EVALUATION FORM

River System: Sol Duc

Site No.: S-345L-01
Site Name: Nelson Springs
WRIA: 20.0345A

DATE: 3-14-97

OBSERVER: Powell

MINNOW TRAPPING REPORT

TRAP	DATE		DATE		CATCH		RBT	CUTT	COTTID
	SET	TEMP	PULLED	TEMP	COHO	MRK			
1	3/13	5.5°C	3/14	5.0°C	0	0	0	0	0
2	3/13	5.5°C	3/14	5.0°C	0	0	0	0	3
2	3/13	5.5°C	3/14	5.0°C	0	0	0	0	0
TOTALS:					0	0	0	0	0

COMMENTS:

- These traps were placed in the terrace tributary and associated pond that feed into the slough.
- Trap 1 was placed downstream of FS 2918 road culvert. I scared a large trout while placing the trap.
- Trap 2 was placed between the FS 2918 road and the Sol Duc Hot Springs Road.
- Trap 3 was placed in the downstream end of pond, upstream from Sol Duc Hot Springs Road.

DATE: 8-28-97

OBSERVER: Powell

Numerous 0+ salmonids were observed in the slough section of this channel and in between the FS 2918 road culvert and to the boulder/cascades. There was ~60-80 gpm flowing from the FS 2918 culvert (we recently had 2 inches of rain).

RIVER: SOL DUC

AREA: S-R8
SITES: S-0345, S-345L-01, S-345L-02
WRIA: 20.0345, 20.0345A, 20.0345B
NAMES: Unnamed, Nelson Sp, Unnamed

DATE: 3/97

OLYMPIC NATIONAL PARK



