

STATE OF WASHINGTON  
**DEPARTMENT OF FISH & WILDLIFE**  
**HABITAT 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 River

**Date:** 2/14/96 (revised 5/10/01)

**Site Identifier:** S-R2-01

**WRIA:** 20.0302G

**River Mile Location:** 13.1 mi

**RB/LB:** RB

**Local Name:** Prairie Fall Creek

**Trib. to:** 20.0096

**Legal Description:** NE¼ Sec11 T28N R14W

**County:** Clallam

**Habitat Type:** Terrace tributary

**Landowner:**  Federal  State  County  Other Government  Private  
- Rayonier Timber Co.

**Directions to site:** Head north from Forks on Hwy 101. Turn left just beyond mp 193 (1.0 mi. north of Forks) onto the La Push Rd. Proceed west on La Push Rd about 3.1 miles. Turn right onto the Quillayute Rd. and follow to the bridge crossing. There will be a turn out on the right, across the bridge - park here. S-R2-01's channel and fall are parallel to the road. Original egress channel can be examined by crossing the Quillayute Road - a swale is evident.

**Site Overview:** This channel originates in an extensive wooded wetland which offers rearing opportunities. It then flows into a well-graveled channel which would support coho spawning in its lower end. This is a lower gradient system and gravel may be due to the multiple road crossings; the culverts are not barriers. The culverts are not barriers. The egress of this channel was moved into the road ditch during WWII. Prior to the summer of 2000, it was a fish blockage due to a ~25-30 foot fall into the Sol Duc river. WDFW in cooperation with the Quileute tribe, Rayonier timber, Pacific Coast Salmon Coalition, and Clallam County installed a new culvert in the county road and rerouted the stream into the historic channel. There is a right bank fork to this system, S-R2-02, which also ties into the upper forested wetland.

**Habitat Information:**

**Water source:**

- Springs and surface runoff

**Intermittent/year-around:**

- Year-around

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

**Water temperatures:** 7.5° C

**Adjacent stream temperature:** Did not take

**Other water observations:**

**Site area measurements:**  Indirect  Direct  Combination

Width: Channel- 1.0 - 1.8 m

Depth: Channel- 7.5 - 15 cm

Total length surveyed: 1050 m

**Total existing habitat area (est.):** 3600 m<sup>2</sup>

Spawning area: 600 m<sup>2</sup>

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

Other rearing area: 3000+ m<sup>2</sup>

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

**Describe spawning habitat:**

- This low gradient channel contains gravel but it may partially be from the four road crossings.
- The culverts at the road crossings are not barriers.
- Spawning material is concentrated in the lower stretch of this system.

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

**Describe pond and other rearing habitat:**

- The lower and mid reaches have cover of brush, LOD, and a canopy of alder and vine maples.
- The upper channel widens and flows through sedges with a cover of brush, and a canopy of mature hemlock.
- The upper most reach is a large wooded wetland. The water braids through water parsley and has cover of LOD and brush. The canopy is alder and some conifer.

**Unaccessible habitat:**

- None.

**Wetland information:**  Bog  Marsh  Scrub-shrub Wetland  Forested Wetland

- The expansive upper wetland was not fully measured.

- It is an alder bottom with water braiding through water parsley, brush, salal and some conifer.

**Flooding potential:**  Low  Medium  High

- This is a low gradient channel.

**Fish Information:**

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

- Egress of present channels is into a glide.

**Coho access and use:** Juvenile-  Unknown  None  Poor  Fair  Good

Adult-  Unknown  None  Poor  Fair  Good

- Egress channel is still stabilizing and may not be easily accessible at all flows.

**Other species access and use:**  Chum  Pink  Sockeye  Res. trout  Trout

- During the winter of 2000/01 juvenile steelhead were captured upstream of the new county road culvert . It is assumed they moved up the channel from the Sol Duc River.

**Habitat Improvements:**

**Enhancement opportunities:**

- Recommendation from initial survey was to put existing egress channel back into it's historic channel. This was done in May 2000 by the SSHEAR section of WDFW.
- Place carcasses throughout system to jumpstart nutrients.
- May have to plant eyed eggs or fry in system to get it going.
- Blast some additional pools in upper end to improve rearing area.

**Additional Comments:**

- New egress is on the property of Richard Chesmore, 440 Brightwater Dr., Forks WA 98331 - (360)374-5453.

**GPS: (decimal degrees, Datum WGS84):** 12/02  
 upper project, upper rock weir - N47.95186, W124.46983  
 lower project, new culvert - N47.95159, W124.46856  
 egress - N47.95094, W124.46856  
 5000 Rd culvert - N47.95211, W124.47040

**Attachments Available:**

Contact respective SSHEAR habitat biologist for the following checked items:

- (X) Aerials                      (X) Sketch                      (X) Maps                      ( ) Culvert Report  
 ( ) Other references              ( ) Spawning surveys              (X) Juvenile trapping              ( ) Fishway Report

**DATE:** 3/20/96

**OBSERVER:** Powell

**MINNOW TRAPPING REPORT**

TRAP	DATE SET	TEMP	DATE PULLED	TEMP	CATCH		RBT	CUTT	COTTID
					COHO	MRK			
1	3/20	8.5°C	3/21	8.5°C	0	0	0	0	21
2	3/20	8.5°C	3/21	8.5°C	0	0	0	0	11
3	3/20	8.5°C	3/21	8.5°C	0	0	0	0	0
<b>TOTALS:</b>					0	0	0	0	32

**COMMENTS:**

- Trap 1 was placed in a pool below the 4th culvert crossing.
- Trap 2 was placed directly below 4th culvert crossing.
- Trap 3 was placed ~25m above 4th culvert crossing.

**DATE:** 8/21/96

**OBSERVER:** Powell

Drier than normal summer. Outfall had a flow of ~10 - 15 gpm, and mid channel had a flow of ~10gpm and a temperature of 11° C.

**Date:** May 2000

**OBSERVER:** King

The SSHEAR section of WDFW in cooperation with the Quileute tribe, Rayonier timber, Pacific Coast Salmon Coalition, and Clallam County installed a new culvert in the county road and rerouted the stream into it's historic channel.

**DATE:** 8/2000

**OBSERVER:** Nettnin

Utilized the DNR Honor Camp Crew to distribute sand throughout the culvert. This was to improve the seal and stop the leaks.

**DATE:** 11/2000

**OBSERVER:** Powell

The new channel section leading into the wooded area had intermittent flows early in the fall. Once it appeared ground water levels were up (and some natural sealing took place), the channel flowed uninterrupted to the egress. The channel continued to cut down through the silt deposits at the lower end exposing boulders and rootwads. This area will need to be monitored over time.

**DATE:** 11/7/00

**OBSERVER:** Darrow

Set 6 minnow traps upstream of the new culvert to about 15 meters upstream of the last culvert. Water temp was between 8 C and 8.5 C. Seventy-two cottid were captured and one juvenile steelhead was captured near project area.

**DATE:** 12/9/00

**OBSERVER:** Darrow

Set 10 minnow traps upstream of the new culvert to the first beaver dam. Water temp was between 4.5 C and 5.5 C. Seventy cottid were captured, one juvenile steelhead, and two cutthroat.

**DATE:** 12/30/00

**OBSERVER:** Darrow

Set 8 minnow traps upstream of the new culvert to the base of the large beaver dam. Water temp was 7.5 C. Seventy-eight cottid were captured, and one juvenile steelhead was captured near the new culvert. Two traps were placed in S-R2-02 and ten cottid were caught.

**DATE:** 1/14/01

**OBSERVER:** Darrow

Set 8 minnow traps upstream of the new culvert to about 75 meters upstream of the last culvert. Water temp was 6.5 C. Seventy-eight cottid were captured.

**DATE:** 2/4/01

**OBSERVER:** Darrow

Set 6 minnow traps upstream of the new culvert to above the large beaver dam. Water temp was 6 C - 6.5 C. Ten cottid, one cutthroat, and one juvenile steelhead were caught. Two traps were placed in S-R2-02 and five cottid were caught.

**DATE:** 3/10/01

**OBSERVER:** Darrow

Drier than normal winter and early spring - the channel is still flowing to the egress but it is presently a low flow. Minnow trapping was done throughout the winter and several juvenile steelhead were captured. The lower reach, at the egress, continues to down cut through the accumulated silt deposits. Lower than normal precipitation this winter and early spring. This system still has maintained a good flow. This site received a tote of coho carcasses from the Sol Duc Hatchery for nutrient enrichment.

**DATE:** 5/01

**OBSERVER:** Powell

Numerous trout fry have been observed around the new culvert area. It was reported that the students of the Forks School District planted coho fry in this stream.

**DATE:** 7/3/01

**OBSERVER:** Nettnin

Removed pipe, sandbags, and filled ditch used for a bypass during the construction of the project.

**DATE:** 10/8/01

**OBSERVER:** Darrow

Presently, this channel is experiencing low flow conditions. Water goes subsurface downstream of the culvert. The upper mid area is being logged. No salmonids were observed.

**DATE:** 11/3/01

**OBSERVER:** Darrow

The Pacific Salmon Coalition has distributed some coho carcasses in the system for nutrient enrichment.

**NORTH COAST OFF CHANNEL SURVEY**  
**SUBSEQUENT SITE EVALUATION**

River System: Sol Duc

Site No.: S-R2-01

WRIA: 20.0302G

Site Name: Prairie Fall Creek

DATE: 12-31-01

OBSERVER: Darrow

**MINNOW TRAPPING REPORT**

TRAP	DATE		DATE		CATCH			
	SET	TEMP	PULLED	TEMP	COHO	RBT	CUTT	COTTID
1	12/30	6.5 °C	12/31	7°C	1	1	4	0
2	12/30	6.5°C	12/31	7°C	0	0	3	0
3	12/30	6.5°C	12/31	7°C	2	0	3	7
4	12/30	6.5°C	12/31	7°C	6	0	3	10
5	12/30	6.5°C	12/31	7°C	3	0	0	9
6	12/30	6.5°C	12/31	7°C	0	1	0	0
7	12/30	6.5°C	12/31	7°C	0	0	0	6
8	12/30	6.5°C	12/31	7°C	0	0	0	7
9	12/30	6.5°C	12/31	7°C	0	1	1	5
10	12/30	6.5°C	12/31	7°C	0	0	0	6
					12	2	14	50

Average size: 97.3 mm    STD: 11.2    Min-Max: 81-119

Count: 12 coho measured

- Trap 1 was placed directly upstream of the new culvert.
- Trap 2 was placed mid way between new culvert and 5000 culvert.
- Trap 3 was placed directly downstream of the 5000 culvert.
- Trap 4 was placed directly downstream of the old grade culvert.
- Trap 5 was placed directly upstream of the old grade culvert.
- Trap 6 was placed directly upstream in the main channel, with the right bank tributary.
- Traps 7 and 8 were placed in lower end of the right bank tributary.
- Trap 9 was placed mid way between confluence of tributary and beaver dam in the main channel.
- Trap 10 was placed directly downstream of the beaver dam.

3-27-02

OBSERVER: Darrow

Good flow this winter season. Coho and steelhead adults were observed spawning throughout this channel! There were about 13 coho redds. Numerous juvenile salmonids have been observed.

**NORTH COAST OFF CHANNEL SURVEY**  
**SUBSEQUENT SITE EVALUATION**

Site No.: S-R2-01

WRIA: 20.0302G

Site Name: Prairie Fall Creek

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**OBSERVER: Darrow**

**MINNOW TRAPPING REPORT**

TRAP	SET	TEMP	DATE PULLED	DATE TEMP	COHO	RBT	CATCH CUTT COTTID	
1	4/2	7°C	4/3	7°C	0	0	0	17
2	4/2	7°C	4/3	7°C	1	0	2	1
3	4/2	7°C	4/3	7°C	3	4	2	2
4	4/2	7°C	4/3	7°C	0	0	2	26
5	4/2	7°C	4/3	7°C	8	0	0	2
6	4/2	7°C	4/3	7°C	3	0	0	24
7	4/2	7°C	4/3	7°C	0	0	0	3
8	4/2	7°C	4/3	7°C	0	0	1	21
9	4/2	7°C	4/3	7°C	0	0	0	0
10	4/2	7°C	4/3	7°C	0	0	0	3
<b>TOTALS:</b>					15	4	7	99

Average size: 98.1 mm    STD: 9.7    Min-Max: 85-122    Count: 15 coho measured

**COMMENTS:**

- Traps 1 and 2 were placed between the new culvert and the 5000 culvert.
- Traps 3, 4, 5, 6 were placed in succession between the 5000 culvert and the old grade culvert.
- Traps 7 and 8 were placed between the old grade culvert and the logging road culvert.
- Traps 9 and 10 were placed directly upstream of the beaver dam.

**DATE:** 12/31/02

**OBSERVER:** Powell

Routinely checked this site from November through December for spawners. There may have been one redd this season. The Pacific Salmon Coalition placed numerous coho carcasses (about 70) at the second and third culverts.

**GPS: (decimal degrees, Datum WGS84):**

upper project, upper rock weir - N47.95186, W124.46983

lower project, new culvert - N47.95159, W124.46856

egress - N47.95094, W124.46856

5000 Rd culvert - N47.95211, W124.47040

**DATE:** 4/24/03

**OBSERVER:** King

Lower channel is still stabilizing. The upper rock weirs need some attention.

**DATE:** 10/24/03

**OBSERVER:** King

Lower channel looks good. Upper channel is still okay. Some rock movement. Small drop developing over rock control just downstream from culvert.

AREA: S-R2

SITES: S-R2-01, S-R2-02

WRIA: 20.0302G, 20.0302H

NAMES: Prairie Fall Cr., Branch Pond

DATE: 2/96

REVISED 9/00



