

SITE NUMBER: ED-115L-10
LOCAL NAME: Rusty Springs
WRIA: 20.0116F

NORTH COAST OFF CHANNEL SITE INVENTORY DATA

RIVER SYSTEM: E. F. Dickey **DATE:** 4/8/92 **OBSERVER:** Young

CHANNEL TYPE: Terrace tributary (partially wall based)

TRIBUTARY TO: Thunder Creek (20.0115)

SITE LOCATION: L.B. @ RM 5.1 as measured in the field (about 650 to 700 m upstream of Thunder Lake)

LEGAL DESCRIPTION: NE1/4 S35 T30N R14W

UPPER END LOWER END THUNDER CREEK

WATER TEMP: N/A 5.5° C 7.0° C

FLOW (CFS): Trickle < 5 gal/min

SUBSTRATE TYPE: Mud and silt.

SITE SIZE: **Length-** 200 - 250 m
 Width- Water surface = 20 cm to 1.5 m (pond to 10 m)
 Channel = 60 cm to 1.8 m
 Depth- Avg = 2.5 - 10 cm (including pond)

WATER SOURCE: Seep springs and run off water.

DIRECTIONS TO SITE: Go north from Forks on Hwy 101 for 3.1 mi. Turn left (west) about 0.1 mi. beyond MP 195 onto the D-2000. Proceed west on the D-2000 about 4.7 miles until coming to the E. F. Dickey Bridge. Cross the bridge and continue north on the D-2000 another 4.7 miles (going past major junctions with the D-2400, the D-2600 and the D-2900) until coming to the first of two wooden bridges. Continue on the 2000 another 0.75 miles to the second bridge. Turn right less then 0.1 miles beyond the bridge onto a spur road that leads into the middle of a small clearcut. Walk across the clearcut, heading southeast from the end of the spur. This will lead to the confluence of a small right bank trib and the mainstem of Thunder Creek. Continue downstream about 200 m to ED-115L-10 (enters from the left bank on the outside of a hard turn).

FISH ACCESS AND CURRENT USE: Fish should have fairly easy access into the main egress of ED-115L-10 during higher flows. A long, 2 ft high beaver dam, about 25 m above the mouth, probably restricts fish move-ments as water tends to trickle over (and through) the entire length of the dam. A small amount of water flows around the end of the dam and enters the creek just upstream of the main egress. This water plunges through roots as it drops over a 2 to 3 ft high bank.

FLOODING POTENTIAL: Low. Some backwater flooding seems likely.

LANDOWNER: Unknown at this time (probably DNR).

(continued on next page)

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(continued)

COMMENTS & RECOMMENDATIONS: ED-115L-10 is a small, shallow wetland area, that appears to be fed by small seeps and run off. The lower 100 m reach of the channel lies at the toe of a hill and at the back edge of a small, swampy flat. The water in this lower reach appears to contain a lot of iron.

The short egress enters Thunder Creek on the outside of a bend and seems to provide good fish access into the lower 25 m reach of ED-115L-10. A relatively long, low beaver dam (i.e. < 60 cm high), at that point creates a shallow pond. Due to seep-like flows and the pattern of flow over and through the dam, it appears under normal conditions that this dam blocks juvenile coho from further upstream access. The only opportunity for fish to gain access to the shallow pond comes if backwater flooding should occur.

A second egress channel allows water to flow around the right bank end of the low beaver dam. This water plunges over a 60 to 90 cm high bank as it flows through roots and enters the creek a short distance upstream of the main egress.

The pond behind the low dam is quite shallow (i.e. < 30 cm) and extends upstream about 100 m. Canopy directly above the shallow pond is largely open. The ground adjacent to the pond supports a mature conifer forest.

The gradient at the upper end of the pond steepens as the valley narrows. Woody debris, an abundance of brush, and a shallow, braided flow pattern makes the channel in this middle reach of ED-115L-10 rather poorly defined.

ED-115L-10 continues through heavy brush for the next 50 to 100 m and the gradient in the upper reach flattens. The channel terminates at a small, round, open water pond. This bowl-shaped pond is surrounded on three sides by higher ground and appears to act as a catch basin for run off water from the surrounding slopes. The pond, with a maximum depth of < 60 cm, has a thick carpet of moss covering the entire bottom. This mossy "substrate" extends downstream into the brushy area. It appears the moss acts like a sponge by holding and slowly releasing the run off waters. Water surface elevation in this upper pond may be as much as 8 to 10 ft higher than the water surface in the lower pond.

Need to observe flows in this channel along with water levels in the creek throughout the year. Development of a beaded channel in the lower 150 m reach may be feasible. A control structure could be added to re-place the beaver dam. This area may be susceptible to backwater flooding.

DATE: 2/23/97

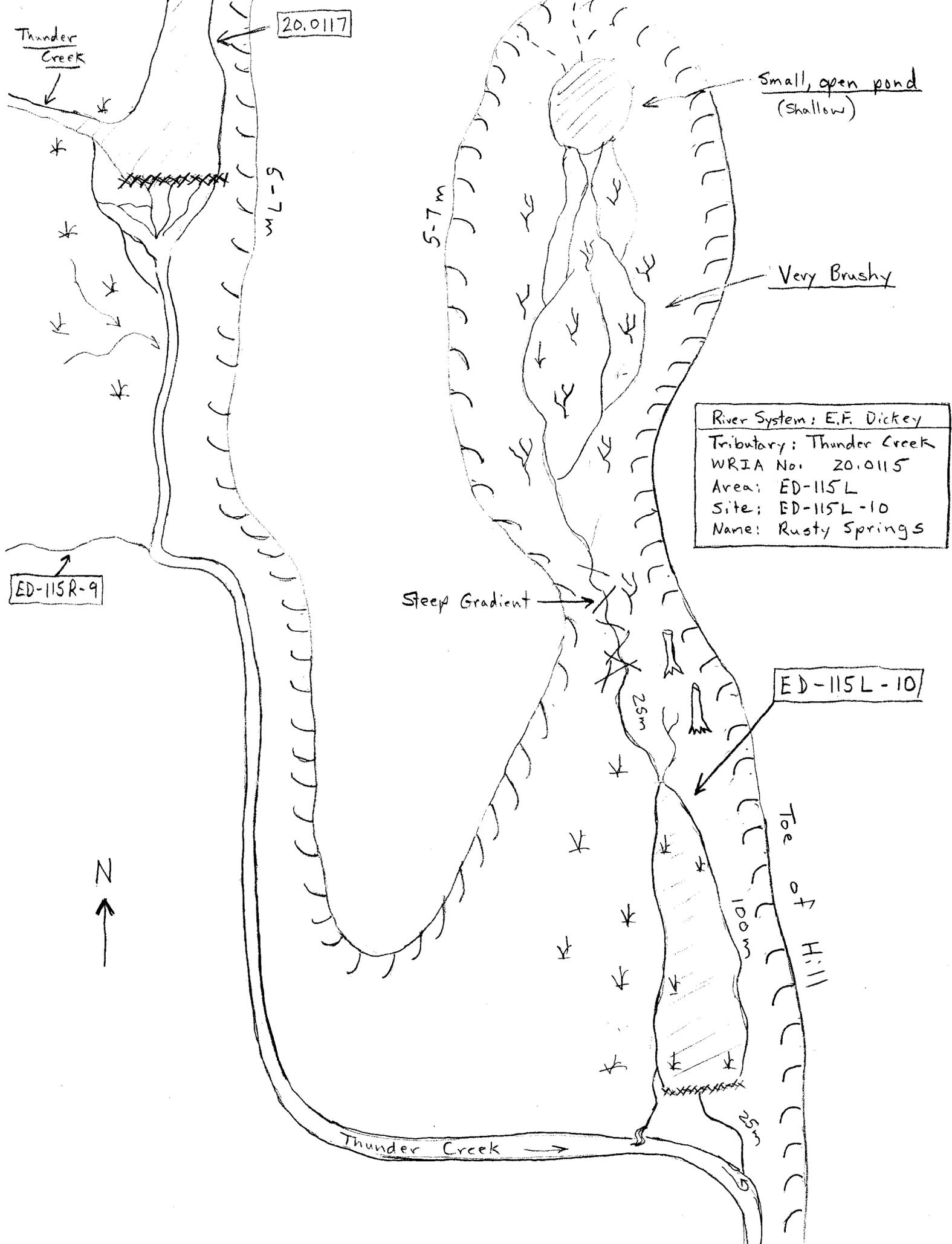
OBSERVER: Darrow

MINNOW TRAPPING REPORT

TRAP	DATE SET	TEMP	DATE PULLED	TEMP	COHO	CATCH			COTTID
						RBT	CUTT	0+	
1	2/22	3.5°C	2/23	3.5°C	3	0	0	0	25
2	2/22	3.5°C	2/23	3.5°C	1	0	0	0	14
3	2/22	3/5°C	2/23	3.5°C	0	0	0	0	0
TOTALS:					4	0	0	0	39

COMMENTS:

- Trap 1 was placed about 40-50 m above confluence with Thunder Creek.
- Trap 2 was placed upstream from beaver pond in lower section of channel.
- Trap 3 was placed upstream from trap #2, in mid section of channel.



20.0117

Thunder Creek

Small, open pond (Shallow)

5-7m

5-7m

Very Brushy

River System: E.F. Dickey
Tributary: Thunder Creek
WRIA No: 20.0115
Area: ED-115L
Site: ED-115L-10
Name: Rusty Springs

ED-115R-9

Steep Gradient

ED-115L-10

N
↑

Toe of Hill

Thunder Creek

25m

100m

25m

