

SITE NUMBER: CW-L5-02

LOCAL NAME: Pond #1

WRIA:

NORTH COAST OFF CHANNEL SITE INVENTORY DATA

RIVER SYSTEM: Clearwater **DATE:** 5/25/88 **OBSERVER:** Young

CHANNEL TYPE: Wall based pond and egress channels

TRIBUTARY TO: Clearwater River (21.0024)

SITE LOCATION: River mile - 12.4 R.B.

LEGAL DESCRIPTION:

	UPPER END	LOWER END
	(spring on LB of pond)	(foot bridge on LB egress)

<u>DISSOLVED OXYGEN:</u>	N/A	6.0 mg/l
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<u>WATER TEMP.:</u>	50 F	54 F
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<u>AIR TEMP.:</u>	57 F	55 F
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<u>FLOW (CFS):</u>	< 0.1	0.5 - 1.0 (combined flow of both egress channels)
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SUBSTRATE TYPE: Sand and silt.

SITE SIZE: **Length-** 400 - 450 m (includes pond and 2 egress channels)

Width- 2 - 3 ft (excluding pond)

Depth - 2 - 4 inches (excluding pond)

WATER SOURCE: Springs (Possibly subsurface)

DIRECTIONS TO SITE: Head north on Highway 101. Turn right 0.9 miles beyond mile post 146 onto the Clearwater Rd. Proceed north 8.4 miles until coming to the Shale Creek bridge. Stay to the left (C-2000) as the road forks just beyond Shale Creek. Proceed another 0.9 miles until coming to the Gross bridge (crosses the Clearwater at RM 12.3). CW-L5-02 and CW-L5-03 (Ponds #1 and #2) are located at the south end of the bridge and just east of the C-2000 Rd (See site direction map).

FISH ACCESS AND CURRENT USE: Access to Pond #1 appears restricted by beaver dams and cascades at the head of both egress channels. One 0+ coho was seen in the left egress. None were seen in the pond. Pond #1 has been trapped in the past by the Quinault tribe or DNR. Reportedly few coho use this pond. Past catch data should be available.

FLOODING POTENTIAL: Moderate to low.

LANDOWNER: Unknown at this time. Probably ITT Rayonier.

COMMENTS & RECOMMENDATIONS: CW-L5-02 consists of a pond (Pond #1) and its two egress channels. Both egress channels are left bank tributaries to the lower end of channel L-5-3 (the egress of Pond #2). The left bank of the pond and the left egress channel are wall based.

The left egress is approximately 100 m long and currently carries a flow of about 0.1 cfs. It converges with channel L-5-3 about 10 m above its mouth. At the head of the channel (outlet of the pond), water filters through a medium sized beaver dam which sits on the brink of a 3 ft falls. The falls and dam probably do not permit juvenile coho to enter the pond via this channel.

The right egress channel is approximately 85 m long and currently carries a flow of 0.5 to 1.0 cfs. It joins

channel L-5-3 about 50 m above its mouth. The right egress appears much younger than the left channel. It shows fresh signs of erosion and still appears to be in the cutting process. Water leaving the pond via the right egress channel runs through and around some small beaver dams. This results in a braided flow just below the pond. The water cascades over tree roots as the braided flow converges into a single incised channel. The movement of juvenile fish through this area and into the pond also appears restricted.

After walking the perimeter of the pond, it appears more water leaves the pond than can be seen entering it. This may indicate the presence of subsurface springs. One small mineral spring was noted along the left bank of the pond.

According to Warren Scarlett (DNR), past trapping data has shown good numbers of fish utilizing Pond #2 (see CW-L5-03) but very few if any utilizing Pond #1.

If fish can be attracted into CW-L5-02 and if the egress channels are passable, Pond #1 should offer excellent overwintering habitat. It should be fairly easy to eliminate any passage problems. Further study of the egress channels during high flows may be desired.

SITE NUMBER: CW-L5-02
RIVER SYSTEM: Clearwater
POND NAME: Pond No. 1

POND DATA SUPPLEMENT

DATE: 5/25/88

	INLET	OUTLET (L.Bank)	OUTLET (R.Bank)
<u>DISSOLVED OXYGEN:</u>	8.0 mg/l	5.5 mg/l	8.0 mg/l
<u>WATER TEMPERATURE:</u>	57 F	57 F	57 F
<u>AIR TEMPERATURE:</u>	57 F	55 F	60 F

POND SIZE:

LENGTH - 200 - 220 m

WIDTH - 60 m

DEPTH - Difficult to estimate. Maximum depth appears to be 4 to 6 ft. More extensive depth measurements may be desired.

WATER SOURCE: Springs (Possibly subsurface).

FISH ACCESS & CURRENT USE: No fish were observed in the pond. The pond may not be accessible due to relatively minor passage problems in each of the two egress channels. Past trapping data has indicated little overwinter use.

TYPE & AMOUNT OF IN POND COVER: Virtually 100 % of the pond's surface is covered with lily pads. Some submerged woody debris is also present.

COMMENTS & RECOMMENDATIONS: This pond offers excellent looking overwintering habitat but is apparently under utilized. See further comments on the CW-L5-02 site inventory data sheet.

DATE: 11/22/88

OBSERVER: King

The right bank channel of Pond 1 should be worked on to channelize all flow into a single channel and the beaver dam at the pond should be made passable. Very little water was leaving the pond via the left bank channel despite recent substantial rainfall.

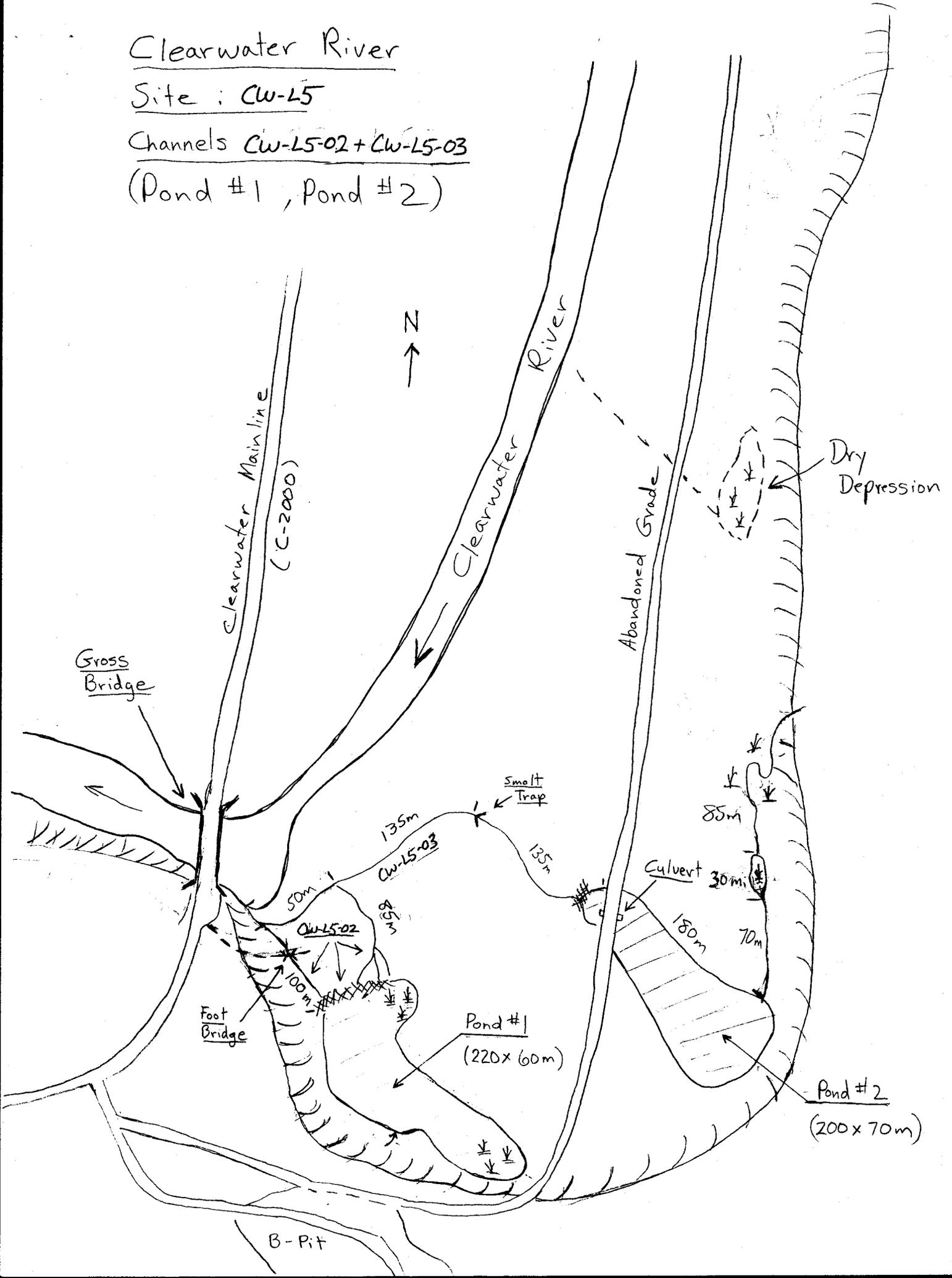
After reviewing the predation study done on this pond by Zarnowitz and Raedeke, it may be beneficial to lower the level of the pond in late summer and deepen it by blasting holes since it appears that the shallower depths are conducive to bird and mammal predation. This pond should be trapped again to determine the number of fish moving in and out of it.

Clearwater River

Site : CW-L5

Channels CW-L5-02 + CW-L5-03

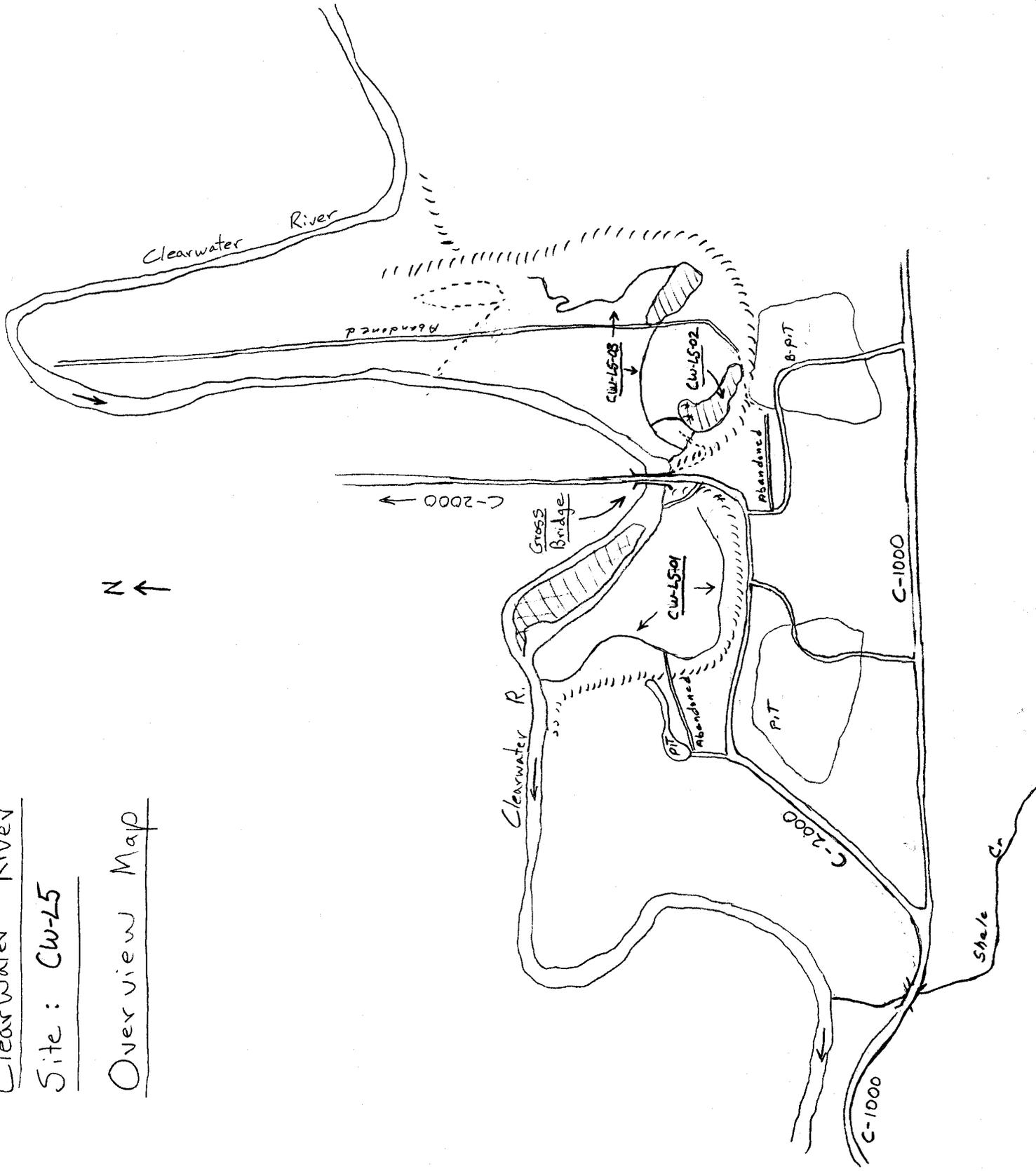
(Pond #1, Pond #2)



Clearwater River

Site: CW-15

Overview Map



Clearwater R.

Site: Cw-15

5281

40'

T. 25 N.

5278

1 MI. TO U.S. 101

(D)

