

SITE NUMBER: CW-L4-01 (was CW-L4-2, revised 9/94)

LOCAL NAME: Paradise Pond *

WRIA:

NORTH COAST OFF CHANNEL SITE INVENTORY DATA

RIVER SYSTEM: Clearwater **DATE:** 5/17/88 **OBSERVER:** Nettnin

CHANNEL TYPE: Terrace Tributary (wall based)

TRIBUTARY TO: Clearwater River (21.0024)

SITE LOCATION: River mile - 9.5 L.B. (Stream catalog)

LEGAL DESCRIPTION:

UPPER END LOWER END

DISSOLVED OXYGEN: (See pond data supplement)

WATER TEMP.: 54 F 51 F

AIR TEMP.: 51 F 51 F

FLOW (CFS): 0.25 - 0.5 1.0

SUBSTRATE TYPE: Mud.

SITE SIZE: **Length-** Approximately 1075 m to the fork
Width- Above pond = 1-2 ft Below pond = 2-3 ft
Depth - Above pond = 2-6 in Below pond = 6-8 in

WATER SOURCE: Springs and terrace trib.

DIRECTIONS TO SITE: Head north on Highway 101. Turn right 0.9 miles beyond mile post 146 onto the Clearwater Rd. Proceed north approximately 7.5 miles. Turn left into a gravel pit. Keeping right at the first fork follow the road through the pit and down the hill. A well maintained trail near the end of the driveable grade leads to the pond area (See site direction map).

FISH ACCESS AND CURRENT USE: Fish have good access and are presently using this channel.

FLOODING POTENTIAL: Moderate to low.

LANDOWNER: Probably all ITT Rayonier.

COMMENTS & RECOMMENDATIONS: This tributary enters the Clearwater River at a nice back eddy. The lower 150 m is deeply incised. It continues as a well defined channel until coming to large pond (Paradise Pond*) located about 240 m above the mouth (See pond data supplement). Fry were seen in the lower channel. Fish were also seen jumping in the pond.

Some work has been done in this system by WDF and/or DNR. A fish ladder for juvenile coho has been installed at the outlet of the pond. A spring has been piped in to the pond rather than running into the egress channel.

Upstream/downstream juvenile coho migrant traps have been operated both above and below the pond. The upper trap appears inactive. Catch data from these traps should be obtained since it could supply important information concerning the extent of habitat use above the pond.

From just upstream of the pond to the old trapping site the channel is 8-12 ft wide and 2-3 ft deep. This reach may have been excavated. Above the trap site the channel narrows significantly and becomes rather shallow. Further upstream the channel becomes braided as it passes through an area of logging

debris. A good deal of the area upstream of the pond may be improved with the use of controls and/or a beaded channel.

The trib forks about 400 m above the pond. Above the forks, the gradient of the main branch begins to increase. Fish passage begins to look doubtful near an old grade crossing. The trib runs through a culvert as it is crossed by the Clearwater mainline. The headwaters of the trib are in a large, extremely shallow marsh on the upper terrace east of the mainline. This area also appears to contain the headwaters of Elkhorn Creek.

* A sign located at the pond refers to it as the Jim Swinth Pond.

GPS: (decimal degrees, Datum WGS84):

N47.62972, W124.26964 - 4/15/02, fishway location

SITE NUMBER: CW-L4-012
RIVER SYSTEM: Clearwater
POND NAME: Paradise pond**

POND DATA SUPPLEMENT

DATE: 5/17/88

	INLET	OUTLET
<u>DISSOLVED OXYGEN:</u>	11.0 mg/l	12.0 mg/l
<u>WATER TEMPERATURE:</u>	54 F	51 F (Air: 51 F)

POND SIZE:

LENGTH - 85 - 90 m *
WIDTH - 45 - 50 m *
DEPTH - 2 - 6 ft *

*From Peterson (1985); Prog. Report No. 233 (See map)

WATER SOURCE: Terrace tributary and springs from the terrace wall.

FISH ACCESS & CURRENT USE: Access has been provided by a juvenile fish ladder and fish are currently present in the pond.

TYPE & AMOUNT OF IN POND COVER: Several trees have been fallen into the pond. About half of the pond's water surface is in saw grass or sedges while the other half is open water. Some aquatic vegetation can be seen along the bottom. In the deepest areas water depth may also serve as cover.

COMMENTS & RECOMMENDATIONS: This pond is largely man-made. Most of the work done here has been accomplished through joint projects involving DNR and WDF.

** A sign at the pond refers to it as the Jim Swinth Pond.

DATE: 11/15/95

OBSERVER: Nettnin

The repair of the fishway looks good. Some water (< 10 gpm) appears to be piping around the weir but it could be coming off the hillside. No fish were observed.

DATE: 9/5/95

OBSERVER: Nettnin

- Modified the trail access.
- Replaced the foot bridge.
- Sealed the LB end of the weir where water was piping around.
- Replace some rotten planks and relined the bays in the fishway.
- Material used: 100 ft. Of assorted dimensional planks.
 - 100 sq. Ft. of geotextile cloth
 - 100 sq. Ft. Of plastic
 - 10 lbs. Of nails

DATE: 4/3/96

OBSERVER: Nettnin

Project looks okay at this time but the flows are low. Juvenile fish were observed in the migrant trap box; fish appeared to be in excellent condition.

DATE: 12/11/96

OBSERVER: Nettnin, Powell, Darrow

Lots of water - everything looked good!

DATE: 4/22/97

OBSERVER: Nettnin

No problems at this time. Tribe is trapping downstream migrants.

DATE: 10/1/97

OBSERVER: Nettnin

Fishway clear and functioning. The spillway has a portion of the bottom separated but is not posing a problem at this time.

DATE: 3/12/98

OBSERVER: Nettnin

Project looks okay. Tribe is trapping downstream migrants.

DATE: 10/98

OBSERVER: Nettnin

-Looked good in October but was not flowing through fishway at that time.

DATE: 5/11/99

OBSERVER: Nettnin

At this flow, all the water is piping under the LB and RB ends of weir. The RB end was patched in the past but it appears that the leak has redevelop.

- G.P.S. data was taken and is as follows:
- Egress with the Clearwater River
- location of control

East 1,070,597 ft.	North 859,867 ft.
East 1,071,326 ft.	North 859,969 ft.

DATE: 11/10/99

OBSERVER: Nettnin

The project was found to be in good condition. The leaks at both ends of the weir structure are about the same as they have been in the past. Flows were up to 3 - 5 cfs.

DATE: 7/5/00

OBSERVER: Nettnin

Presently, all the water is leaking around both ends of the control weir. The left bank leak is under the spruce tree and also piping under the weir. The right bank leak is filtering through or going under the weir. These problems are slated for correction this summer. The Quinault Tribe continues to trap this location - the trap and screens are still in place. Observed risers on the pond and juvenile coho in the channel.

DATE: 10/18/00

OBSERVER: Nettnin

This project was not repaired due to time restraints. The water is still piping under the left bank and right bank ends of the weir. There is flow through the fishway. Some temporary repairs were done. The right bank was stopped by packing clay above the weir and the left bank could still seeps.

DATE: 12/4/00

OBSERVER: Nettnin

The left bank leak has redeveloped and the right banks leak is about the same. Repair of this site will be done in early 2001 project season.

DATE: 10/1/01

OBSERVER: Nettnin

Repaired the right bank end of the main control by opening it up and replacing some rotted planks and resealing it. The left bank end was repaired by opening the end and extending the planks deeper into the rock and resealing. There is still a leak in the center portion of the weir that may be fixed by backfilling behind the weir. It needs to be done when water is flowing over the weir so the lower channel does not dewater.

DATE: 4/15/02

OBSERVER: Nettnin

Water is piping around both ends of the control. I think the right bank end may just be water leaking through the overflow structure. The left bank end is about the same amount of leakage prior to repair. Installed a wood duck nest box at this site. GPS: N47.62972, W124.26964 - fishway location

DATE: 4/23/02

OBSERVER: Nettnin

Flows have dropped some since the last check. There is a small amount of water still flowing through the overflow chute. The right bank leak is down to a trickle. The left bank leaks is about 5 gpm or less.

DATE: 7/9/02

OBSERVER: Nettnin

Made repairs to the right and left ends of the main control.

DATE: 11/5/02

OBSERVER: Nettnin

The flow is barely a trickle below the fishway.

DATE: 11/13/02

OBSERVER: Nettnin

I has been raining and the fishway is watered. The lower step, which is usually backwatered, has enough leakage that water is not flowing over the control. Each pool has a decrease of flow over their controls. It appears that there is leakage in all of them. The prior leak on the right bank end has not redeveloped. The prior leak on the left bank side has redeveloped. Will need to keep an eye on it to see if it gets worse.

DATE: 12/12/02

OBSERVER: Nettnin

Project is well watered. There is water flowing down the overflow. The left bank appears to be leaking about 20 -30 gpm. It will need to be checked at a lower flow to see if it drops off.

DATE: 4/15/03

OBSERVER: Nettnin

The left bank in the fishway is still leaking but it appears to be less than last check.

DATE: 10/21/03

OBSERVER: Nettnin

The water is still piping under the LB and RB ends of the weir, but also is flowing through the fishway. The right bank end only leaks during flows through the overflow. The left bank leak is still piping through the bank.

Clearwater River

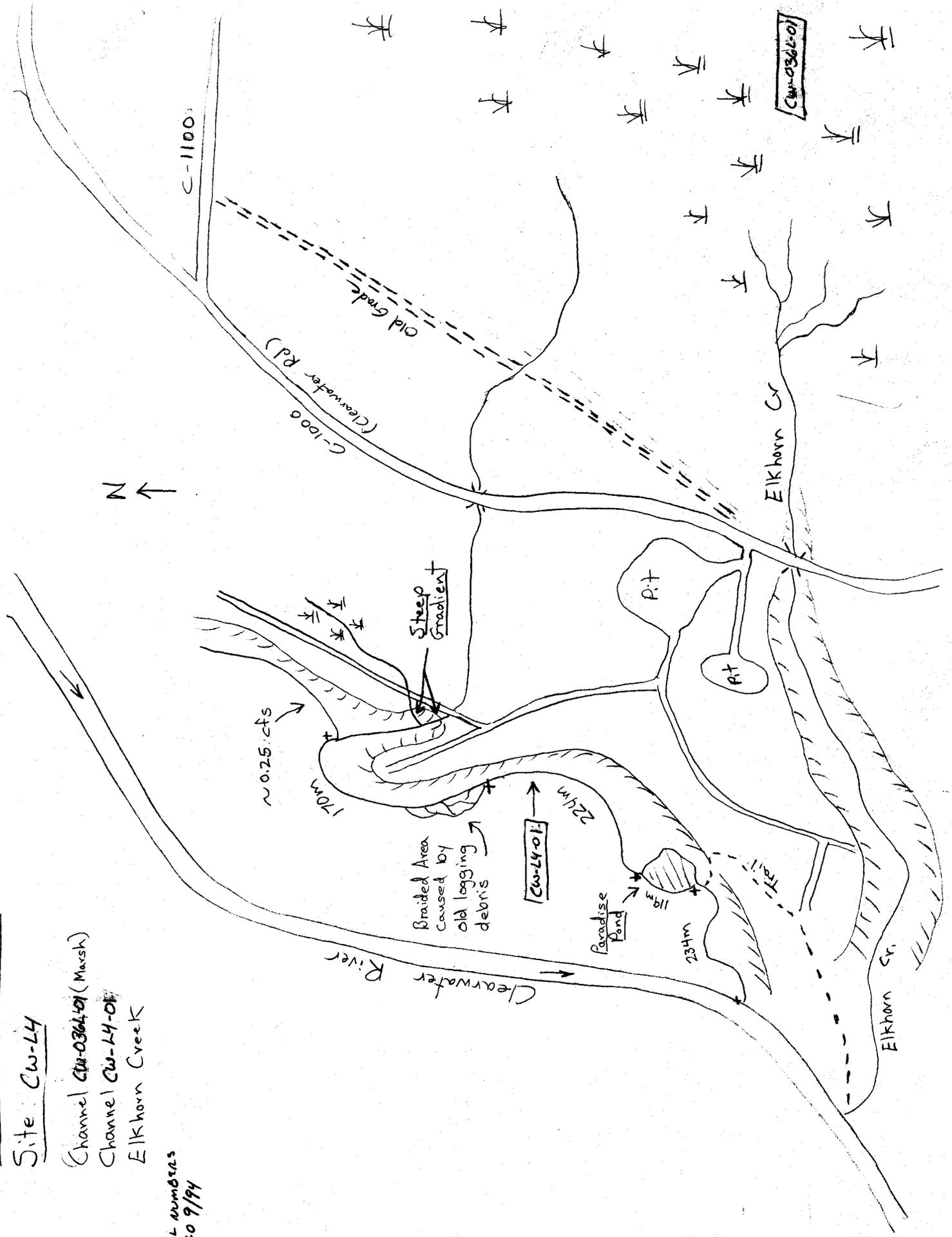
Site CW-14

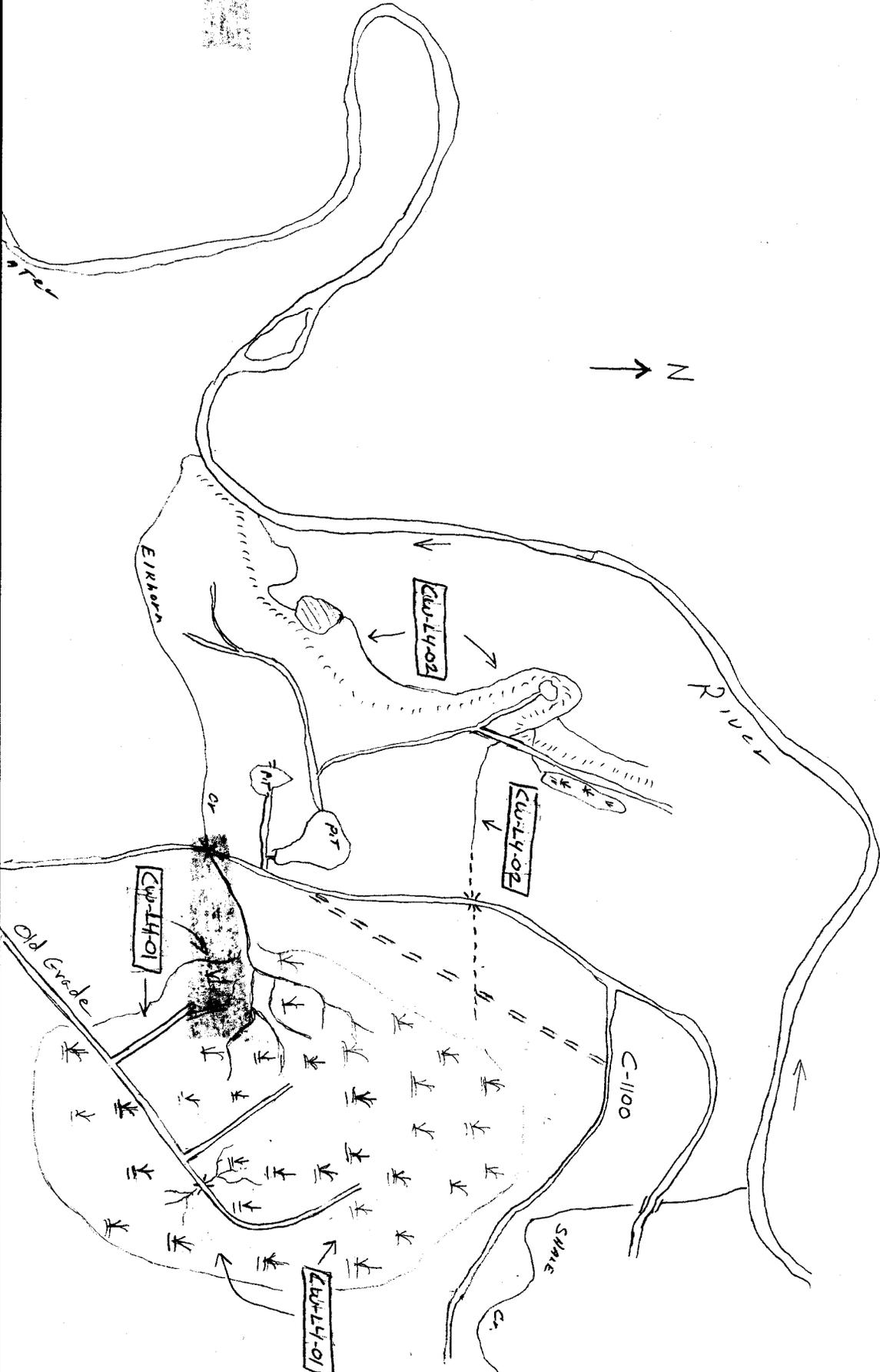
Channel CW-0364-01 (Marsh)

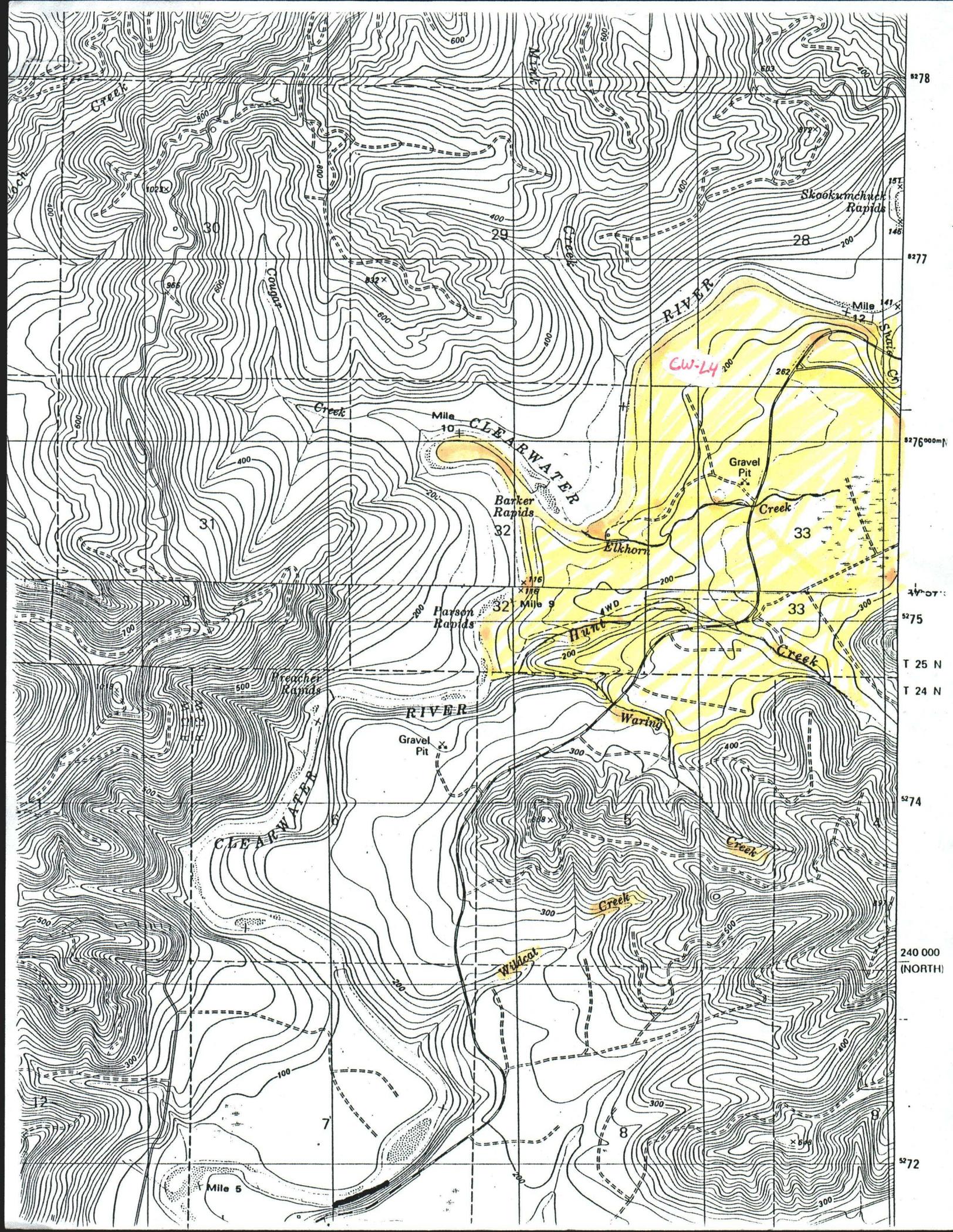
Channel CW-14-01

Elkhorn Creek

CHANNEL NUMBERS
Revised 9/94







42° 28' N

42° 27' N

42° 26' N

42° 25' N

42° 25' N

42° 24' N

42° 24' N

42° 23' N

240 000 (NORTH)

42° 22' N

CW-L4

Mile 10
CLEARWATER RIVER
Barker Rapids
32

Hanson Rapids
32
Mile 9

CLEARWATER RIVER

CLEARWATER RIVER

RIVER

Skookumchuck Rapids

Gravel Pit

Creek

Elkhorn

Hunt Creek

Waring

Creek

Wildcat

Coyote Creek

Creek

Preacher Rapids

Creek

Creek

Mile 5

Mile 12

Mile 11

Mile 10

Mile 9

Mile 8

Mile 7

Mile 6

Mile 5

Mile 4

Mile 3

Mile 2

Mile 1

Mile 0

Mile -1

Mile -2

Mile -3

Mile -4

Mile -5

Mile -6

Mile -7

Mile -8

Mile -9

Mile -10

Mile -11

Mile -12

Mile -13

Mile -14

Mile -15

Mile -16

Mile -17

Mile -18