

SITE NUMBER: D-L3-07
LOCAL NAME: Allen Springs
WRIA: 20.0109A

NORTH COAST OFF CHANNEL SITE INVENTORY DATA

RIVER SYSTEM: Dickey **DATE:** 1/17/91 **OBSERVER:** Nettnin

CHANNEL TYPE: Terrace trib. (wall-based)

TRIBUTARY TO: Dickey River (20.0097)

SITE LOCATION: L.B. @ R.M. 6.5 (WDF)

LEGAL DESCRIPTION: SE1/4 S31 T29N R14W

	UPPER END	LOWER END	RIVER TEMP
<u>WATER TEMP:</u>	47 F	46 F	44 F
<u>FLOW (CFS):</u>	< 0.25	0.25 - 0.5	

SUBSTRATE TYPE: Silt and clay.

SITE SIZE: **Length-** 410 m
 Width- Water surface = 1 - 3 m (Excluding ponds)
 Channel = 3 - 6 m
 Depth- 2 - 15 cm (Excluding ponds)

WATER SOURCE: Springs and terrace tribs.

DIRECTIONS TO SITE: Head north from Forks on Hwy 101. Turn left just beyond mp 193 (1.0 mile 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 continue west for 4.0 mi. Turn right onto Mina Smith Rd. (at the Quillayute Cemetery) and proceed north about 0.8 mi. (crossing the Colby Creek Bridge) to the D-5000 intersection. Continue on the Mina Smith Rd. (the D-5200) about for 1.5 mi. D-L3-07 is the ponded area to the west of the road and about 0.1 mile beyond Larger Cr. (20.0109)

FISH ACCESS AND CURRENT USE: A small eddy created by woody debris and rocks occurs in the river at the mouth of D-L3-07. The lower 20 m reach of D-L3-07 is moderately steep with small woody debris piles. Some of this reach is submerged during high water, but fish access appears difficult at best. No fish were observed.

FLOODING POTENTIAL: Low.

LANDOWNER: Unknown at this time (possibly DNR).

COMMENTS & RECOMMENDATIONS: The lower 20 m of D-L3-07 is moderately steep. A series of small beaver dams occurs in the next 40 m. A pond, about 120 m long and 10 to 15 m wide, occurs above the series of small dams. Springs and a small terrace trib flow through culverts under the Mina Smith road and feed into the pond along its left bank. Above the lower pond is a short (30 m long) channel that accommodates flow out of a second pond. This upper pond is formed by an old, abandoned barrow pit which is fed by springs. It also appears to receive overflow water from D-L3-8 during high flow periods. There appears to be a lot of good rearing habitat in this system that is greatly under utilized. Should set minnow traps in D-L3-07 to verify juvenile coho utilization.

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NORTH COAST OFF CHANNEL SITE INVENTORY DATA

RIVER SYSTEM: Dickey **DATE:** 1/17/91 **OBSERVER:** Nettnin

COMMENTS AND RECOMMENDATIONS: (Continued)

Channel D-L3-8 could easily be modified so it would flow into D-L3-07. If this modification were done, there may be enough flow to degrade the channel and make it accessible at all flows. Such modification would also create more rearing habitat in the reaches between the ponds. The systems do not appear to be flashy or have large flows during heavy rains. Need to monitor during heavy rains.

There appears to be some potential here for building a new, gentle gradient egress channel to the river, or possibly even to Larger Cr. This would insure a more stable situation at the mouth of the channel (i.e. less concern with bank erosion) and would provide more attraction water.

GPS: (decimal degrees, Datum WGS84): 11/19/02

upper project - N47.97645, W124.55501

lower project - N47.97291, W124.55201

channel egress - N47.97233, W124.55239

RIVER SYSTEM: Dickey River
SITE NUMBER: D-L3-07
POND NAME: Allen Springs Pond #1

POND DATA SUPPLEMENT

DATE: 1/17/91

OBSERVER: Nettnin

	<u>INLET</u>	<u>OUTLET</u>
<u>WATER TEMPERATURE:</u>	47 F	46 F

POND SIZE:

LENGTH - 120 m
WIDTH - 20 - 30 m
EST. MAXIMUM DEPTH - > 1 m

WATER SOURCE: Terrace tribs.

FISH ACCESS & CURRENT USE: Passage through the lower egress is difficult at best except on high waters. No fish were observed.

TYPE & AMOUNT OF IN POND COVER: In pond cover is created by: deep, tannic water, some woody debris, shoreline brush, sedges and aquatic vegetation. Could use more woody debris.

COMMENTS & RECOMMENDATIONS: The small beaver dam at the outlet of the pond does not appear to be a factor in pond stability. It does of course effect the pond level. At present the effect is only about 30 cm.

It appears there is enough area available to alter the egress and allow better fish passage. If additional flow is required for better attraction and/or to insure there is sufficient water in the system, terrace trib. D-L3-8 could be altered to flow through Allen Springs.

RIVER SYSTEM: Dickey River
SITE NUMBER: D-L3-07
POND NAME: Allen Springs Pond #2

POND DATA SUPPLEMENT

DATE: 1/17/91

OBSERVER: Nettnin

INLET **OUTLET**

WATER TEMPERATURE: 47 F 46 F

POND SIZE:

LENGTH - 70 m
 WIDTH - 10 - 20 m
 EST. MAXIMUM DEPTH - < 30 cm

WATER SOURCE: Springs and overflow from a terrace trib.

FISH ACCESS & CURRENT USE: The egress channel into the D-L3-07 system is difficult at best except on high waters. The channel between the upper and lower ponds is poorly defined near the outlet of the upper pond (i.e pond # 2). A small left bank trib. entering D-L3-07 has deposited a small amount of bedload here. No fish were observed.

TYPE & AMOUNT OF IN POND COVER: In pond cover is created by sedges.

COMMENTS & RECOMMENDATIONS: This pond was created when an old borrow pit was flooded from springs and overflow water from a nearby terrace trib. (see D-L3-8). The pit is uniform across the bottom. There is good machine access to this pond if excavation is desirable.

Should try to define channel between Pond #1 and Pond #2 in order to eliminate braiding and reduce the possibility of stranding fish.

NORTH COAST OFF CHANNEL SURVEY
SUBSEQUENT SITE EVALUATION FORM

River System: Dickey

Channel No.: D-L3-07
Site Name: Allen Springs
WRIA: 20.0109A

DATE: 4/23/91

OBSERVER: Young/King

No rain for almost 2 weeks. Outlet was dry. Entrance to river was steep and it appears there would have to be flooding before fish could get into this channel. Diverting D-L3-8 would probably help keep the channel running longer but without good access it may not be worthwhile. This channel should be minnow trapped in the future to determine current fish use.

DATE: 5/2/91

OBSERVER: Nettnin/King

Need to shoot profile through channel to determine high spots. Water temps in pools ranged from 10 to 12 degrees. Some flow between pools at one point. Outlet channel is basically dry. Found 30+ coho smolts in pockets of water in outlet channel. Most were dead. Outlet into river looks accessible with a 3 foot rise in the water level. This site needs to be monitored after a good rain.

DATE: 8/15/91

OBSERVER: Nettnin

Channel D-L3-8 was blocked off and the flow was diverted down the overflow channel to D-L3-07. Work was done by Dave Nettnin and a crew from the DNR honor camp using hand tools.

DATE: 11/19/91

OBSERVER: Nettnin

On 8/15/91 Channel D-L3-8 was blocked off and the flow was diverted down the overflow channel to D-L3-07. The overflow channel was widened and deepened to handle more flow. During the last part of Aug there was a substantial rain fall and the modification project held up fine.

DATE: 3/23/92

OBSERVER: Darrow, Slack

There were eight minnow traps baited with salmon roe and set in the ponds. Four in the lower, three in the upper and one in between. There were 12 Coho, 1 Cutthroat Trout and 52 cottid captured.

NORTH COAST OFF CHANNEL SURVEY
SUBSEQUENT SITE EVALUATION FORM

River System: Dickey

Channel No.: D-L3-07
Site Name: Allen Springs
WRIA: 20.0109A

DATE: 8/3/92 - 8/4/92

OBSERVER: Nettnin

At the outlet of the lowest pond in this system the majority of the water went subsurface for about 40 m. The water then welled up to the surface creating a deep subsurface pool that became a trap at low water (thirty fish were observed to have died here during one low water in the spring).

To eliminate this problem we dug down about six feet into one of the openings. Then lined the excavation with a filter fabric and plastic, back filled with rock for stability and sand to seal the surface. We also constructed a plank control at the outlet of the pond. This closed off a small cove that allowed water to enter some of the subsurface passages.

The modified WDF plank control is 45 feet long, three feet above the stream bed on the RB side, stream bed level in the center and two feet above the stream bed on the LB. The RB side is where the subsurface outlets are at and has a lower channel. This control is also two feet into the stream bed to get below the subsurface passages.

Crew days: (crew days based on a 10 man crew working 8 hrs/day).

MATERIALS LIST

LUMBER	2 X 12	rough cut cedar	150	lineal feet
	2 X 6	" " "	20	" "
HARDWARE	U-bolts	3/8 X 3 X 6 5/8	6	
	washer	3/8 flat	12	
	washer	3/8 bridge	12	
	nut	3/8	12	
	posts	steel	6	(from another project)
OTHER fabric	Geolon		170	sq ft
	sand bags	burlap	50	

DATE: 10/30/92

OBSERVER: King

Water was within 3" of the top of the notch in control. Control seems to be leaking.

DATE: 11/24/92

OBSERVER: Nettnin

At the time of this observation the flow was very low. The pond was full, but the inlet to where the water was going subsurface was dry. The outlet of the subsurface passage had standing water in it, but I could not detect a current flowing out.

NORTH COAST OFF CHANNEL SURVEY
SUBSEQUENT SITE EVALUATION FORM

River System: Dickey

Channel No.: D-L3-07
Site Name: Allen Springs
WRIA: 20.0109A

DATE: 2/2/93 - 2/3/93

OBSERVER: Darrow

The minnow traps were baited with salmon roe that was acquired at the Solduck Hatchery. This system did not charge up until after most of the up migration was completed due to a dryer than normal fall.

MINNOW TRAPPING REPORT

TRAP	DATE		DATE		COHO	CATCH			COTTID
	SET	TEMP	PULLED	TEMP		RBT	CUTT	0+	
1	2/2		2/3		0	0	0	0	0
2	2/2		2/3		0	0	0	0	0
3	2/1		2/2		0	0	0	0	0
TOTALS:					0	0	0	0	0

DATE: 4/15/93

OBSERVER: King

Almost 6" of rain so far in April. Outlet channel has flow in it. Knocked out small beaver debris in outlet.

DATE: 12/8/93

OBSERVER: King

Small beaver dam removed from outlet. Good flow.

DATE: 3/28/95

OBSERVER: Darrow

Not flowing at present time. Pooled water extends into hand dug trench just below control and ends a couple of feet beyond outflow channel. There is two small dams ~70 ft and 110 ft downstream from control but did not open them as they were dry. Observed a few rises in pond area.

DATE: 11/20/95

OBSERVER: Darrow

Recent storms had pumped this system up. Resident beaver had dammed outflow channel in two places; large opening were made in both. Observed a few small cottids but no salmonids. On 11-2-95, the water level was low with no flow. At that time, the pond's water level reached the base of the silt burm, behind plank control, and no surface water was observed below this point.

DATE: 4/9/96

OBSERVER: Darrow

Ponded areas are watered. There is 6 to 8 inches of water in channel from plank control, downstream for 30 to 35 feet; the channel is dry beyond this point except for isolated small pools. A couple of cottids were observed.

DATE: 10/23/96

OBSERVER: Powell

Water in pond was ~2 feet away from plank control. There was no water in channel below control.

NORTH COAST OFF CHANNEL SURVEY
SUBSEQUENT SITE EVALUATION FORM

River System: Dickey

Channel No.: D-L3-07
Site Name: Allen Springs
WRIA: 20.0109A

DATE: 4/6/97

OBSERVER: Darrow

There was a light flow (~1/5CFS) from ponded area - no rain for a week. Cleared debris from several spots below controls. There is a pile of debris that has collected in a narrow, incised portion of the lower channel ~22-24 m from river confluence. The flows this winter have excavated and exposed some old buried wood in this section and has caused a 2.5 - 3 foot cascade (fish accessible during high flows only). A camp crew may be needed to clear this area. Observed cottids in a couple small pools in the lower channel and saw a rise in the ponded area.

DATE: 10/16/97

OBSERVER: Darrow

There was about 1/3 CFS flow. Cleared debris accumulation in several location - none were a blockage. There are still two plunges (18-20") about 30 - 40 feet above the confluence with the Dickey River.

DATE: 3/8/98

OBSERVER: Darrow

System is flowing to river, ~ 1/4 CFS. No fish blockages encountered just a couple of minor small stick piles which were removed. There is abundant sedge cover in ponded portions. Observed a salmonid darting into cover in the pool above the control.

DATE: 10/13/98

OBSERVER: Darrow

No flowing water at time of check. Water was present in low spots and area was slowly filling up from this recent rainfall. No barriers or dams observed. Lower end (incised portion) of channel has a few 1 1/2 foot plunges over old buried wood deep down in clay and silt. No fish were observed.

DATE: 4/6/99

OBSERVER: Darrow

A light flow of ~ 0.25 - 0.35 CFS. Deeply incised channel has a couple of drops that would be difficult for up migrating juveniles to traverse at present the flow. No fish were observed.

DATE: 11/4/99

OBSERVER: Nettnin

Project appears in good shape. Water from the upper tributary and marsh was sub-surfacing before reaching the pond.

DATE: 4/10/00

OBSERVER: Darrow

Pond area was semi-low. It was not flowing through notch at time of visit. No fish were observed.

DATE: 11/7/00

OBSERVER: Darrow

Pond area has filled up with water but not enough to flow. Channel is clear of debris and 1.5 - 2 foot plunges still exist. The plunges would be barriers except when channel backwaters from high flows. Water was a dark tannic color - did not observe any fish.

DATE: 3/11/01

OBSERVER: Darrow

Lower than normal precipitation this winter and early spring. The lower portion of the system is dry, including the control area and channel outlet. Deeper spots are still water but there is no connecting flows throughout system. Dark water - did not observe any fish or activity.

NORTH COAST OFF CHANNEL SURVEY
SUBSEQUENT SITE EVALUATION FORM

River System: Dickey

Channel No.: D-L3-07
Site Name: Allen Springs
WRIA: 20.0109A

DATE: 10/21/01

OBSERVER: Darrow

System was not flowing at this time. No barriers or beaver activity observed from control plank to the egress. There were some rises in the pond area.

DATE: 12/11/01

OBSERVER: Darrow

About thirty-five coho carcasses were distributed throughout the site for nutrient enrichment.

DATE: 4/20/02

OBSERVER: Darrow

Site had a decent flow. There was about 7 - 9 centimeters of water over the plank control. Observed a few fish rising at the upper mid pond area.

DATE: 11/19/02

OBSERVER: Nettnin

Project appears okay.

GPS: (decimal degrees, Datum WGS84):

upper project - N47.97645, W124.55501

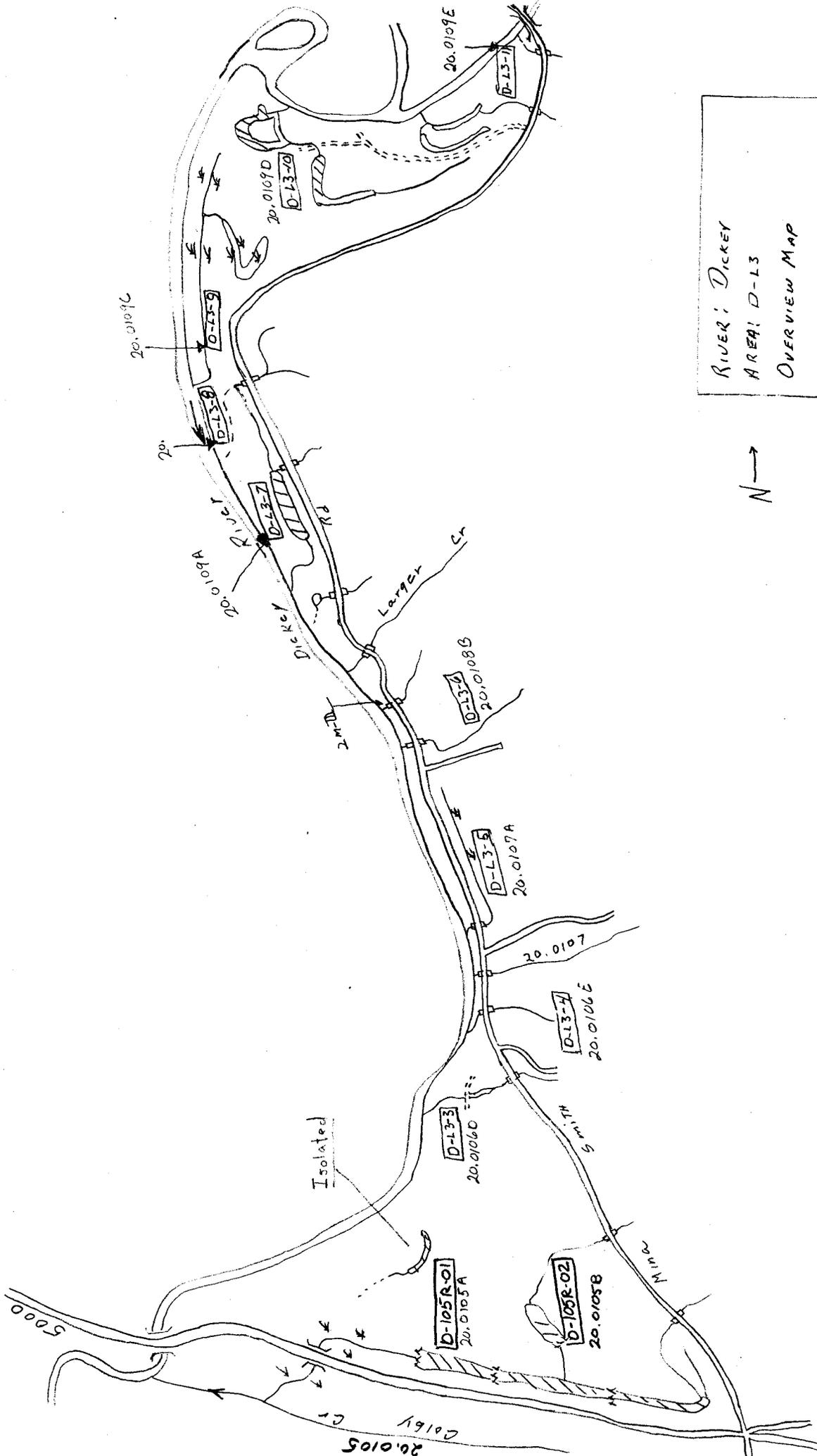
lower project - N47.97291, W124.55201

channel egress - N47.97233, W124.55239

DATE: 5/2/03

OBSERVER: Nettnin

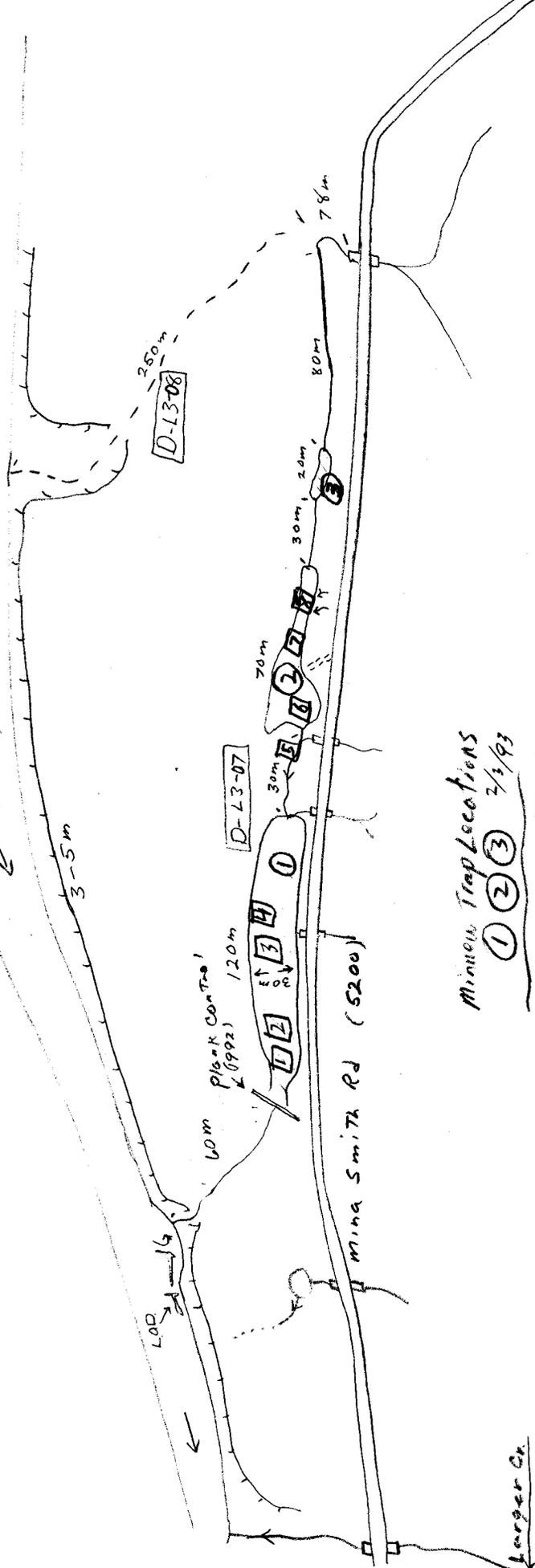
Outlet is dry all the way to the river.



RIVER: DICKEY
 AREA: D-13
 OVERVIEW MAP
 Map Date: 1/91
 Revisio: 11/97



Dickey R



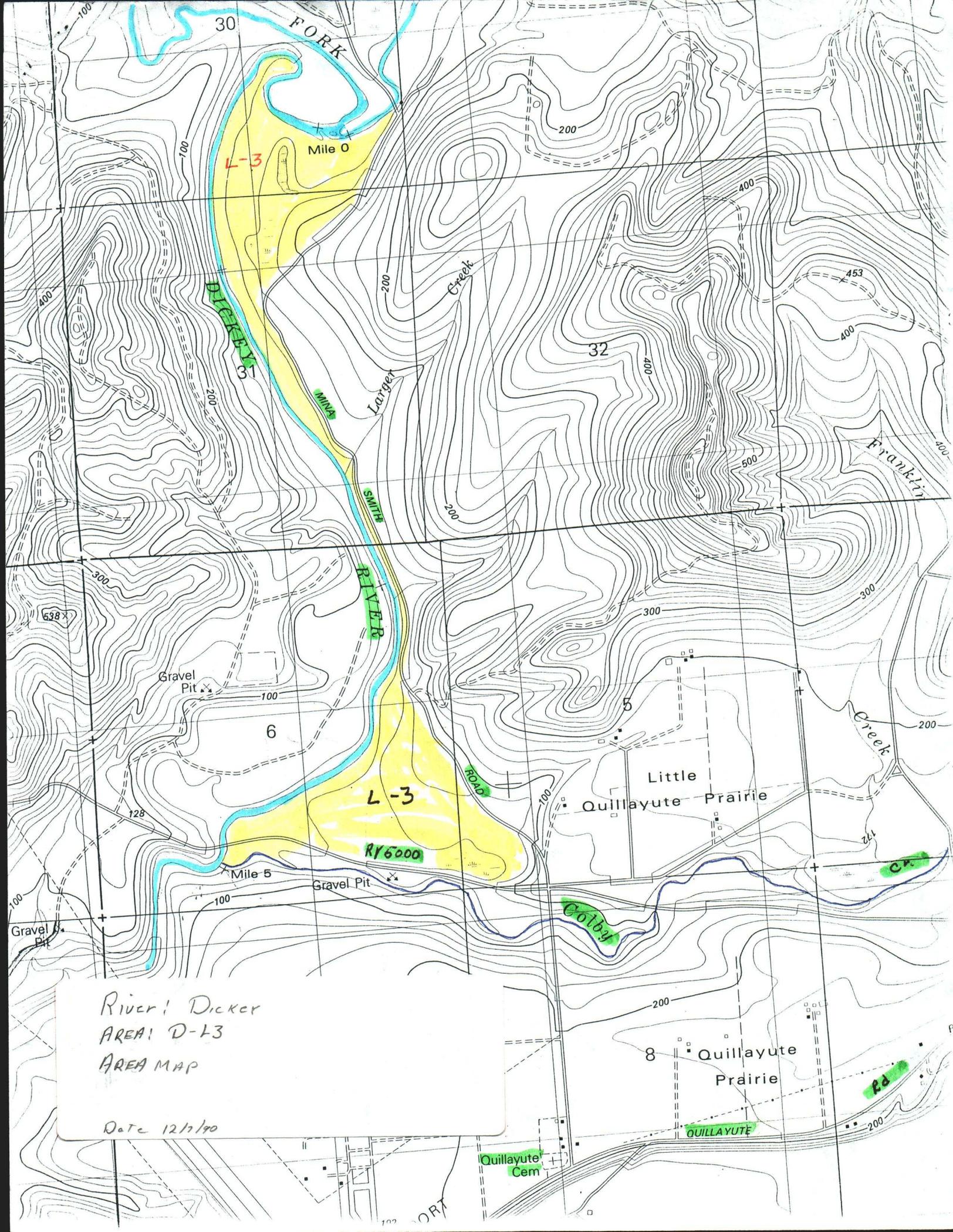
Minnow Trap Locations

① ② ③ 2/3/93

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ㉑ ㉒ ㉓ ㉔ ㉕ ㉖ ㉗ ㉘ ㉙ ㉚ ㉛ ㉜ ㉝ ㉞ ㉟ ㊱ ㊲ ㊳ ㊴ ㊵ ㊶ ㊷ ㊸ ㊹ ㊺ ㊻ ㊼ ㊽ ㊾ ㊿

RIVER: DICKEY
 AREA: D-L3
 SITE: D-L3-07, D-L3-08
 LOCAL NAME: ALLEN SIPS
 MAP DATE: 2/91 Revised 8/92





River: Dicker
AREA: D-L3
AREA MAP

Date 12/1/90

Quillayute
Cem

QUILLAYUTE

Rd

PORT