

SITE NUMBER: WD-138L-02

LOCAL NAME: Broken Arrow

WRIA:

NORTH COAST OFF CHANNEL SITE INVENTORY DATA

RIVER SYSTEM: W.F. Dickey

DATE: 4/6/93

OBSERVER: Nettnin

CHANNEL TYPE: Riverine Pond Tributary

TRIBUTARY TO: 20.0138 (Archer Creek)

SITE LOCATION: LB @ RM: 0.2 (Field data)

LEGAL DESCRIPTION: SE¼, NE¼, Sec. 18, T29N, R14W

	UPPER END	LOWER END	RIVER TEMP
<u>WATER TEMP:</u>	9.5° C	9.5° C	9.5° C (20.0138)

<u>FLOW (CFS):</u>	0.2 - 0.5	0.2 - 0.5	
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SUBSTRATE TYPE: Clay/Mud

<u>SITE SIZE:</u>	Length- 90 m		
	Width- Water surface = 0.5 - 3.0 m		excluding pond
	Channel = 4.0 - 8.0 m		" "
	Depth- 20 - 25 cm	Max- 45 cm	" "

WATER SOURCE: A channel braid from 20.0138, small springs.

DIRECTIONS TO SITE: Head north from Forks on HWY 101. Turn left on La Push road 0.75 mi. past the Calawah bridge. Proceed 3.1 mi. down La Push road and turn right on Quillayute Prairie road. Continue for 3.95 mi. and turn right on Mina Smith road at the cemetery. Continue for 0.8 mi. and turn left onto the logging road D-5000. Proceed on D-5000 road for 9.2 mi. and turn right on D-5230. Proceed 1.8 mi. to the D-5235, then right onto D-5235 for about 1.2 (bear left at the "Y" (0.1 mi.)). Should be at a non-driveable spur to the left located on 90° turn to the right. Park, walk along drainage (WD-138L-03) to 20.0138, then along 20.0138 to the first LB pond downstream which is WD-138L-02.

FISH ACCESS AND CURRENT USE: Fish have problems accessing this channel. Because of an existing beaver dam and except for high flows, fish must go past the channel, find the braid and then come down the braided channel to the pond. No fish were observed.

FLOODING POTENTIAL: Moderate, there may be some back water flooding during major events.

LANDOWNER: ITT Rayonier and DNR

COMMENTS & RECOMMENDATIONS: This stream has:

- A poor egress to 20.0138 due to a beaver dam shunting the flow over a fall.
- An open marsh intermixed with 20 - 30 year old conifer.
- Dark, tea colored water.
- A low to moderate-low gradient.

Recommend:

-Replace the beaver dam that is shunting water over the fall with a control.

RIVER SYSTEM: W.F. Dickey
SITE NUMBER: WD-138L-02
POND NAME: Broken Arrow Pond

POND DATA SUPPLEMENT

DATE: 4/6/93

OBSERVER: Nettnin

	<u>INLET</u>	<u>OUTLET</u>
	In Pond	
<u>WATER TEMPERATURE:</u>	10° C	9.5° C

POND SIZE:

LENGTH - 265 m
WIDTH - 25 - 30 m
EST. MAXIMUM DEPTH - < 1 ft __, 1-2 ft __, 2-3 ft X, > 3ft __

WATER SOURCE: The only visible water source is a channel braid from 20.0138 which enters near the lower end. This source is dependent on two existing, but poorly maintained beaver dams to route the water in the proper direction. If either dam fails this source would be gone.

FISH ACCESS & CURRENT USE: No fish were observed. The outlet channel has a beaver dam that will impede upstream migrants. Except for high flows fry will have to go past the channel, find the braid and then come down the braided channel to the pond.

TYPE & AMOUNT OF IN POND COVER: Nearly half of the surface area is sedges with small areas of open water. The half of the pond that is open water has LOD from fallen trees and the edges are lined with sedges.

COMMENTS & RECOMMENDATIONS: This off channel pond has excellent potential for over winter rearing. However, without a flow through it there may be water quality problems. I did not investigate the possibilities of tying the upper end of the pond back to the river, so that with a control in 20.0138 to provide a constant source of water, there would be a flow created through the pond. Should minnow trap the pond in the winter to see if fish are using it.

DATE: 2/23/96

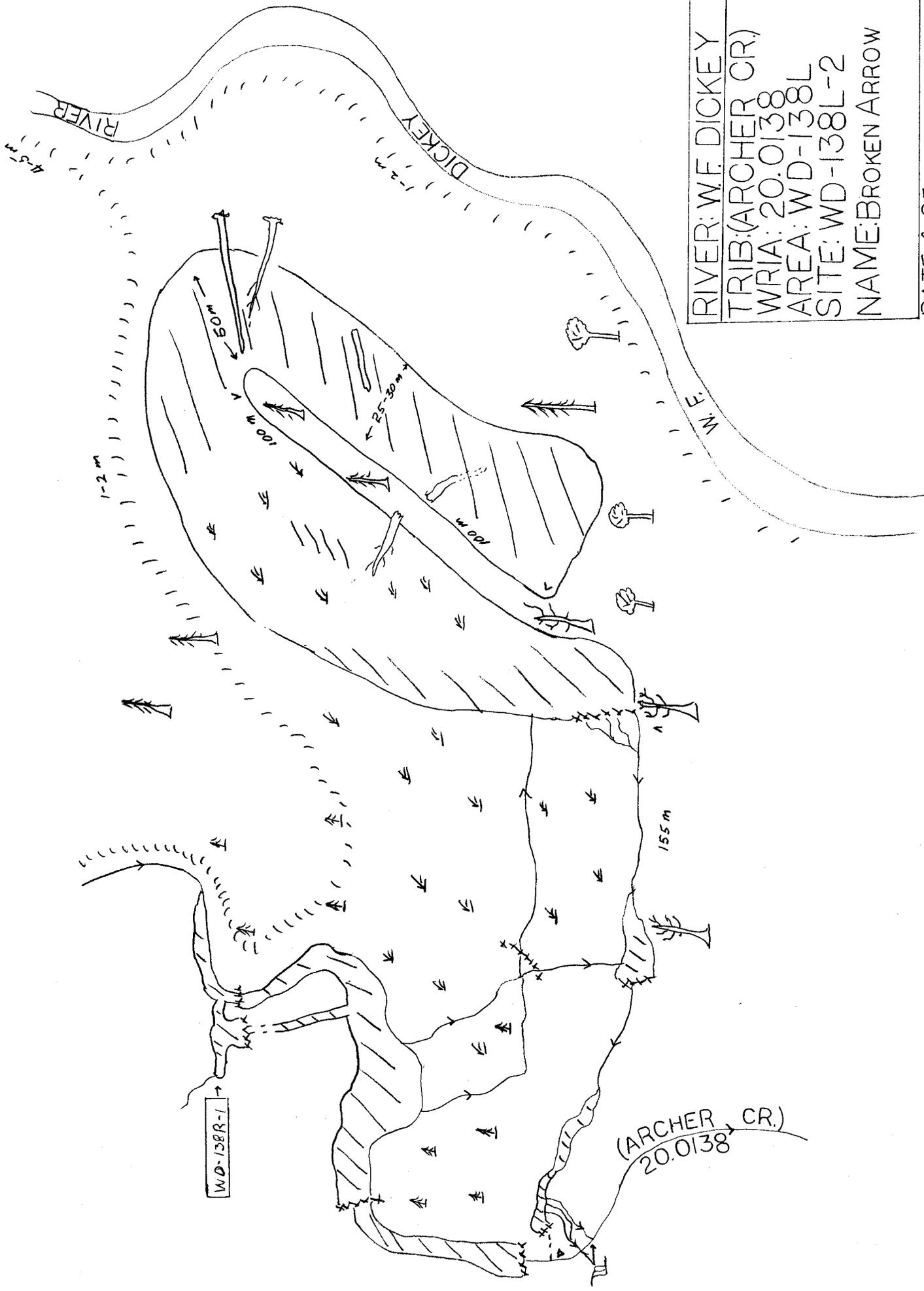
OBSERVER: Darrow/Nettnin

MINNOW TRAPPING REPORT

TRAP	DATE SET	TEMP	DATE PULLED	TEMP	COHO	CATCH			COTTID
						RBT	CUTT	0+	
1	2/23	3.5°C	2/24	2.0°C	0	0	0	0	0
2	2/23	3.5°C	2/24	2.0°C	0	0	0	0	1
3	2/23	3.5°C	2/24	2.0°C	0	0	0	0	1
4	2/23	3.5°C	2/24	2.0°C	0	0	0	0	0
TOTALS:					0	0	0	0	2

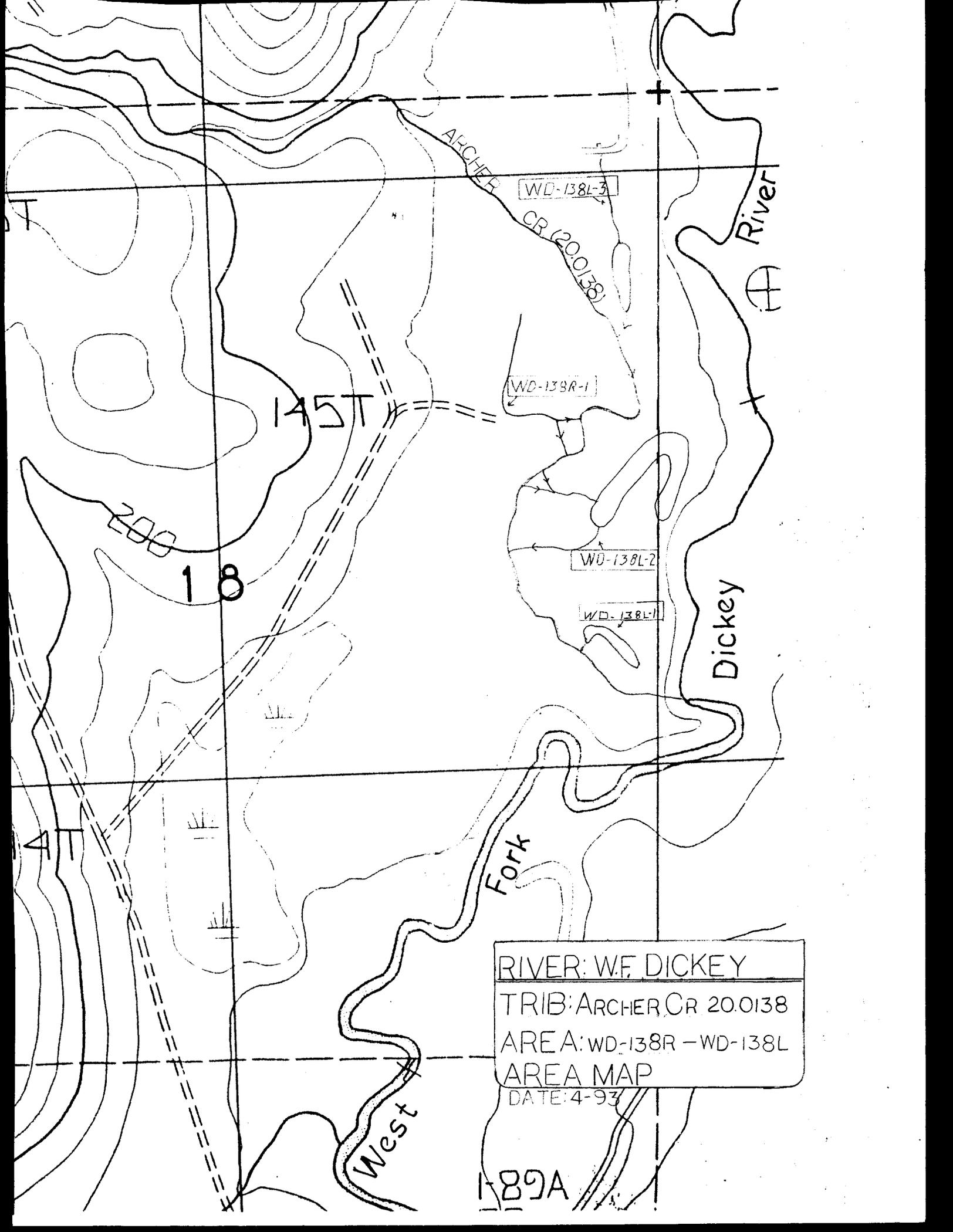
COMMENTS:

- Trap #1 was in the southerly end of the pond on the right side of the peninsula.
- Trap #2 was set to the right of the end of the peninsula, amongst some LOD.
- Trap #3 was set to the left of the end of the peninsula.
- Trap #4 was set towards the northerly end of the peninsula on the left side.
- Cold temperatures may have had a bearing on that the fish were not feeding much, or the beaver dams are limiting upstream migration.
- Some Three Spine Stickleback, a salamander and two frogs were caught.



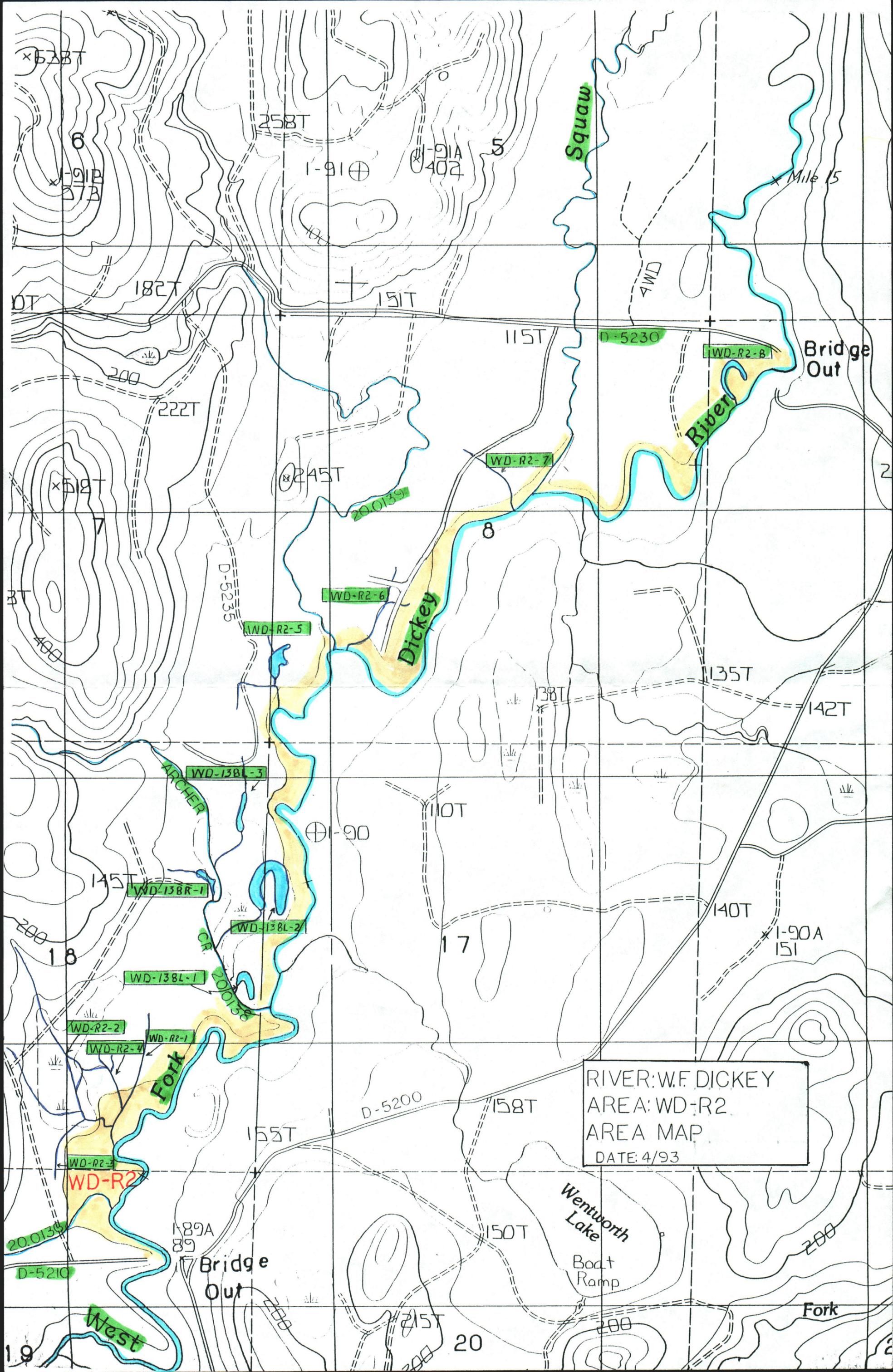
RIVER: W.F. DICKEY
 TRIB: (ARCHER CR.)
 WR/A: 20.0138
 AREA: WD-138L
 SITE: WD-138L-2
 NAME: BROKEN ARROW

DATE: 4-9-97



RIVER: W.F. DICKEY
TRIB: ARCHER CR 20.0138
AREA: WD-138R - WD-138L
AREA MAP
DATE: 4-93

189A



RIVER: W.F. DICKEY
AREA: WD-R2
AREA MAP
DATE: 4/93

Squaw

River

Dickey

Fork

West

Bridge Out

Wentworth
Lake

Boat
Ramp

Fork

Mile 15

Bridge
Out

528T

258T

1-91A
402

182T

151T

115T

D-5230

WD-R2-8

200

222T

245T

200139

WD-R2-7

8

WD-R2-6

D-5235

WD-R2-5

138T

1135T

142T

ARCHER

WD-138L-3

1-90

110T

145T

WD-138R-1

WD-138L-2

17

140T

1-90A
151

200

18

WD-138L-1

200138

WD-R2-2

WD-R2-1

WD-R2-4

D-5200

158T

155T

RIVER: W.F. DICKEY
AREA: WD-R2
AREA MAP
DATE: 4/93

WD-R2-3

WD-R2

D-5210

189A
89

Bridge
Out

150T

Wentworth
Lake

Boat
Ramp

Fork

19

20

215T

200

200