

STATE OF WASHINGTON  
**DEPARTMENT OF FISH & WILDLIFE**  
**HABITAT PROGRAM**  
Salmonid Screening, Habitat Enhancement &  
Restoration Division (SSHEAR)

**OFF-CHANNEL SITE INVENTORY DATA**

**General Information:**

**Region:** North Coast

**Observer(s):** Nettnin

**River System:** W.F. Dickey

**Date:** 2/23/95 - 3/7/95

**Site Identifier:** WD-0155

**WRIA:** 20.0155

**River Mile Location:** 2.1 mi.

**RB/LB:** RB

- RM measured using hip chain.
- Stream catalog indicates 20.0155 enters at RM 1.6

**Local Name:** Thunder Cr.

**Trib. to:** Ponds Creek (20.0153)

**Legal Description:** NE¼ Sec 3 T30N R14W

**County:** Clallam

**Habitat Type:** Valley wall tributary

**Landowner:**  Federal  State  County  Other Government  Private

- Rayonier Timberlands Operations Co.
- Other private ownership

**Directions to site:** Go north from Forks on Hwy 101 about 8.4 mi. then turn left at the Lake Pleasant Grocery Store (0.4 mi. north of MP 200) onto Lake Pleasant Road. Stay on the main road going past the community park and across the Lake Cr. bridge. Turn right and continue up the county road (along the NW shore of the lake) to the end of the pavement. This road then becomes the 9000 line. Continue on the 9000 for 16.5 mi. to a gate (just past the jct of the D-5000, a key is required to get through the gate. A key can be acquired at the Rayonier Timberlands Operations Co. office or the Dept. Of Natural Resources office). Continue through the gate for 3.5 mi. Bear left at the junction onto the 16E (the old Dept. Of Natural Resources map will indicate that the road to the left is the 27E) and continue on for 0.4 mi. crossing Ponds Creek bridge, bear left at the junction with the 25E, proceed for another 0.4 mi. to a culvert crossing. This is Thunder Cr. (20.0155).

**Habitat Information:**

**Water sources:** Surface runoff and tributaries

**Intermittent/year-around:** Year-around

**Estimated flows (CFS):** 0.75 - 3.0

**Water temperatures:** Lower end: 7° C

**Adjacent stream temperature:** Ponds Creek 6.5° C

**Other water observations:** Water is slightly tannic colored.

**Site area measurements:**  Indirect  Direct  Combination

- Width: 3 - 5 m
- Depth: 5 - 10 cm Max- 1 m
- Total length surveyed: 1100 m

**Total existing habitat areas (est):** 6860 m<sup>2</sup>

- Spawning area: Mainstem = 200 m<sup>2</sup> Tribs = 100 m<sup>2</sup> Total = 300 m<sup>2</sup>
- Impounded area: Mainstem = 0 Tribs = 30 m<sup>2</sup> Total = 30 m<sup>2</sup>
- Other rearing area: Mainstem = 4200 m<sup>2</sup> Tribs = 2330 m<sup>2</sup> Total = 6530 m<sup>2</sup>
- Terminated survey at confluence of 20.0156
- Trib 20.0157 was not surveyed.

**Spawning habitat conditions:**  none  Poor  Fair  Good  Excellent

**Describe spawning habitats:**

- The gravel below the 16E line is very good spawning gravel, but it is unstable.
- This is also an alluvial fan area, so the stream channel is ill defined and braided.
- Stream lacks woody debris to act as bedload controls
- The area above the 16E line seems to be more stable. This is the area where about 30 0+ coho fry were observed.

**Rearing habitat conditions:**  None  Poor  Fair  Good  Excellent

**Describe pond and other rearing habitats:**

- Instream pools are subject to high flows during rainy periods.
- System lacks woody debris, especially in the lower reach.
- There are two small off channel rearing areas associated with this stream.
- One is small pool in the flood plain fed by springs and overbank storage. The other is described as WD-155L-01.

**Nonaccessible habitats:** None

- There is a bad culvert at about RM 0.9 however, the gradient is moderately steep in that reach so this may not be problem.

**Wetland information:**  Bog  Marsh  Scrub-shrub Wetland  Forested Wetland

- No associated wetlands.

**Flooding potential:**  Low  Medium  High

- Instream flows only.

**Fish Information:**

**Site entry conditions to Ponds Creek (20.0153):**  Poor  Fair  Good

- The stream enters in a eddy, thus providing a very good entrance.
- There is small point of land and a root wad on the downstream side of the egress.

**Coho access and use:** Juvenile-  Unknown  None  Poor  Fair  Good  
Adult-  Unknown  None  Poor  Fair  Good

- The access for juvenile and adult fish is good.
- This system does not offer much in off channel rearing.  
Coho juvenile use has not been sampled, but about 30 0+ coho fry were observed during the survey.
- Due to the small amount of juvenile fish observed, not many adults are using this stream.

**Other species access and use:** ( ) Chum ( ) Pink ( ) Sockeye ( ) Chinook (X) Trout

- On 3/7/95 a pair of trout were observed spawning just below the 16E line.

**Habitat Improvements:**

**Enhancement opportunities:**

- Consider adding woody debris below 16E line.
- Replace culverts on 16E line.
- Remove culvert at RM 0.9 if that road is to be abandoned.
- Maintain integrity of the system.

**Additional comments:**

- This system produces 90% of the spawning gravel for the Ponds Creek Mainstem.

**Attachments Available:**

**Contact a respective SSHEAR habitat biologist for the following checked items:**

(X) Aerials            (X) Sketch            (X) Maps            (X) Culvert Report  
( ) Other references ( ) Spawning surveys (X) Juvenile trapping    ( ) Fishway Report

**DATE:** 3/26/96

**OBSERVER:** Darrow/Nettnin

TRAP	DATE SET	TEMP	DATE PULLED	TEMP	COHO		CATCH		
					UMRK	MRK	RBT	CUTT	COTTID
1	3/26/96	6.5 C	3/27/96	5.5 C	0	0	0	2	4
2	3/26/96	6.5 C	3/27/96	5.5 C	0	0	0	1	10
3	3/26/96	6.5 C	3/27/96	5.5 C	0	0	0	0	13
4	3/26/96	6.5 C	3/27/96	5.5 C	0	0	0	4	3

**COMMENTS:**

- Trap #1 was about 170 ft above the culvert on the 25.2E
- Trap #2 was about 60 ft above the culvert on the 25.2E
- Trap #3 was set about 6 ft below the culvert on the 25.2E
- Trap #4 was set about 130 ft below the culvert on the 25.2E.
- These fish were 80 - 130 mm and in excellent condition.

RIVER: W.F. DICKEY

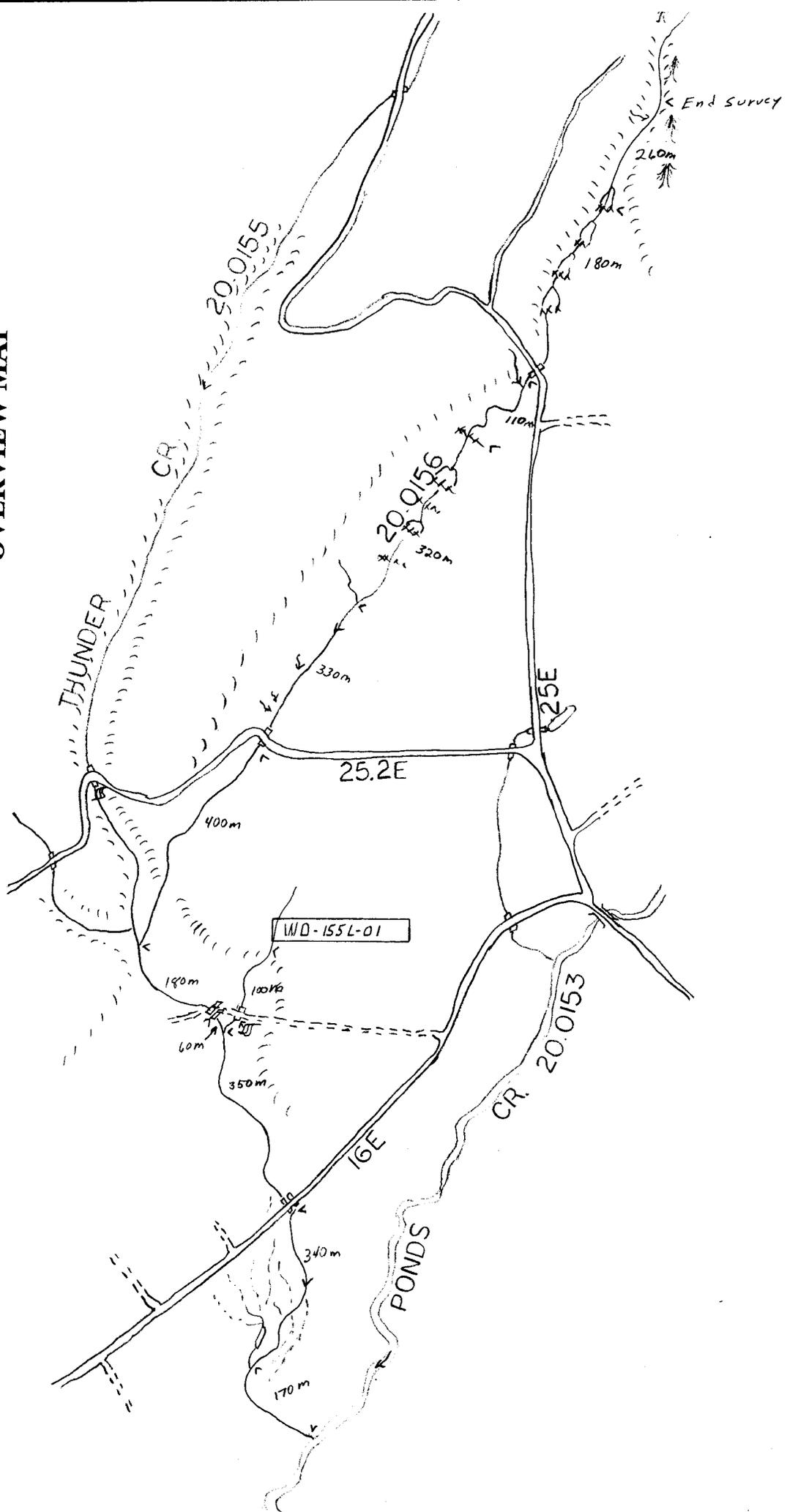
TRIB: 20.0155 THUNDER CREEK

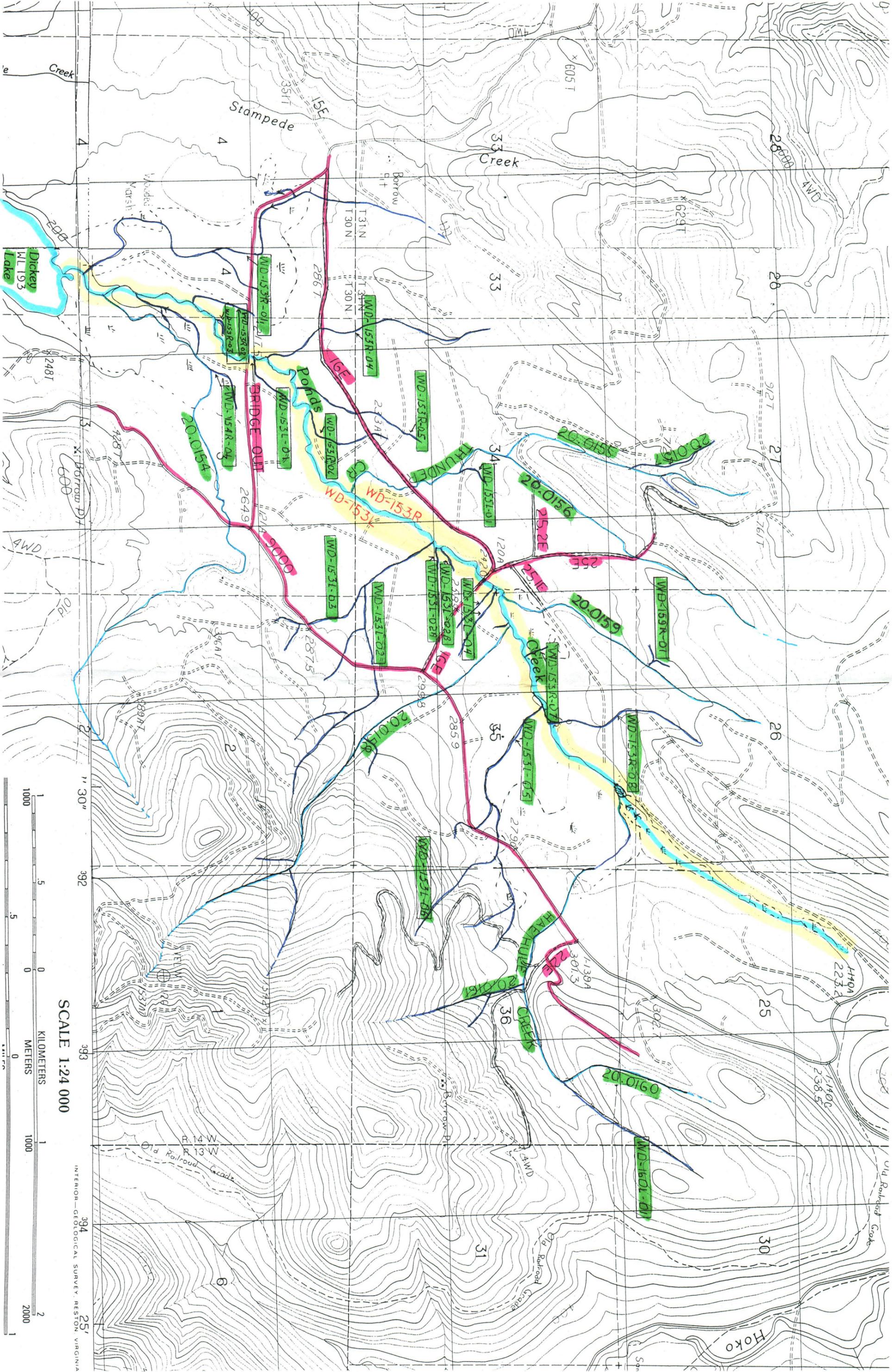
20.0156 UNNAMED

AREA: WD-155R/WD-155L

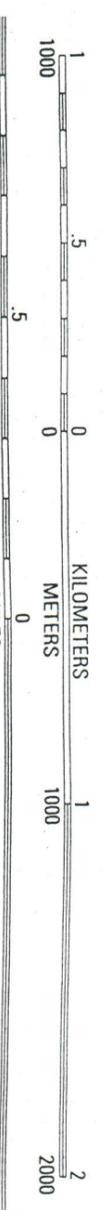
WD-156R/WD-156L

OVERVIEW MAP





SCALE 1:24 000



INTERIOR-GEOLOGICAL SURVEY, RESTON, VIRGINIA