cc. Fred Zeigler
Pete Mondick
Fish & Game

Date: 9/27/78

Fish Stream Survey Report

#102-70-058

Camp THORNE BAY Stream Name(ID) WEST FORK OF THE NORTH THORNE RIVER

Road# 5051.01 (FLAT SPUR) Station# _____ Unit# 8-1 RP# _____

Quad Map _____ Section _____ Chick Map 33 of 55 Section 8-117

Fish Present Yes X No _____

| | Yes | No |
|---|---|---|
| Above Road Crossing | | X |
| Below Road Crossing | X | |
| Within Unit Boundary | X | |
| Below Unit Boundary | X | |

Species Present/Stage of Development COHO, FRY; DOLLY VARDEN - FRY; CUTTHROAT - FRY

Type of Fish Habitat

| | | | |
|---|---|---|---|
| Salmon Spawning Area | | sq yds | Describe |
| Salmon Rearing Area | X | sq yds | Describe GOOD |
| Other DOLLY VARDEN CUTTHROAT Area SPAWNING & REARING | | sq yds | Describe GOOD |

Stream Sketch or Map: Attach supplement if necessary:

SEE ATTACHED SUPPLEMENT

Method(s) used to determine presence of fish:

| STR. # No. | Date | #Fish | Approx Length | Gear | Length of Time Fished |
|---|---|---|---|---|---|
| 1 | 9/27/78 | 2 COHO | 3½" & 3½" | SHOCKER | 15 MIN. |
| | | 2 DOLLY VARDEN | 3" & 3½" | " | " |
| 2 | 9/27/78 | 9 COHO | 3", 3½", 3½", 3½", 3½", 4", 4½", 4½", 4½" | SHOCKER | 30 MIN |
| | | 13 DOLLY VARDEN | (1¼" TO 3½") | | |

| TEAM # No | DATE. | No. of FISH | APPROX LENGTH | GEAR | TIME FISHED |
|---|---|---|---|---|---|
| 5 | 9/27/78 | 11 COHO | (2½" TO 4½") | SHOCKER | 30 MIN. |
| | | 12 DOLLY VARDEN | (1¼" TO 5") | " | " |
| 1 | 9/27/78 | 10 COHO | (2" TO 3½") | SHOCKER | 30 MIN. |
| | | 7 DOLLY VARDEN | (3" TO 5") | " | |
| | | 1 CUTTHROAT | ( 5" | " | |
| | | 1 ~~RAINBOW~~ CUTTHROAT | ( 5½") | " | |
| | 9/27/78 | 2 COHO | (2") | SHOCKER | 15 MIN. |
| | | 2 DOLLY VARDEN | (2½" & 4") | " | |

Is future fish habitat enhancement possible? Yes X No ____

If yes Describe: STREAMS # 1 THROUGH # 5 ARE FILLED WITH SLASH, LOGS, & OTHER LOGGING DEBRIS. CLEAN-UP OF THIS DEBRIS RECCOMMENDED WHERE FESIBLE.

~~Road~~ and Unit boundary/fish stream intersection(s)
Marked with aluminum metal tags & ORANGE Yes X No ____
Fish stream(s) flagged with blue stripe tape Yes X No ____
Stream(s) traversed-If so attach traverse notes Yes ____ No X
Additional parameter information necessary, Yes ____ No X
If so attached completed fish stream parameter Data form

Pertinent Wildlife Information:
DEER & BEAR SIGN OBSERVED

RECCOM.
~~Comments~~: STREAMS # 1 THROUGH # 4 : CLEAN-UP OF LOGGING ~~[illegible]~~ DEBRIS ~~ARE~~ IS RECCOMMENDED WHERE STREAMS ARE FLAGGED. ABOVE FLAGGED AREAS STREAMS & STREAM CHANNELS HAVE BEEN COMPLETELY OBLITERATED OR BURIED BY LOGGING ACTIVITY.

| Survey Crew Members: | Signature | Date |
|---|---|---|
| LAURA A. MOLL | Laura A. Moll | 6 OCTOBER 78 |
| JIM GRUBER | Jim Gruber | 6 OCT. 78 |

Report Reviewed By Michael E. Navy (Signature) Forester (Title) 10-8-78 (Date)

COMMENTS:
~~Recommendations~~:
STREAM # 1 THROUGH # 5 HAVE BEEN FILLED IN WITH LOGGING DEBRIS. SOME HABITAT REMAINS BUT MOST HAS BEEN DESTROYED. POSSIBLE REHABILITATION IS FESIBLE ON PORTIONS OF STREAMS. THESE SECTIONS WERE FLAGGED AS TO TYPES OF HABITAT & TAGGED AT UNIT BOUNDARY. Recommend fish stream clean out per attached page for streams # 1 thru # 5

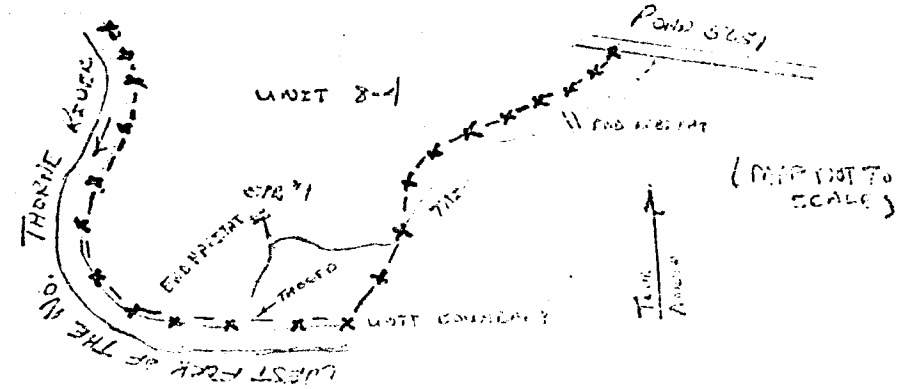
THORNE BAY
UNIT 8-4 (ROAD 5051.01 - FLAT SPUR)
9/27/78

UNIT 8-4 WAS RELEASED APRIL 10, 1975 AND HAS BEEN LOGGED. FLAT SPUR (5051.01) HAS BEEN PUT TO BED.

STREAM #1

THIS STREAM IS APPROX. 3 FT. TO 4 FT. WIDE AND SOME 6 IN. TO 8 IN IN DEPTH WITH A ROCK/GRAVEL SUBSTRATE. THIS STREAM ENTERS THE WEST FORK OF THE NORTH THORNE RIVER AT SOUTHERN BOUNDARY OF UNIT 8-4. 75 FT. UPSTREAM FROM THE MOUTH, A TRIB. ENTERS THIS STREAM. AT APPROX. 150 FT. UPSTREAM THE MAIN CHANNEL OF THIS STREAM HAS BEEN COMPLETELY DIVERTED BY LOGGING ACTIVITY WITH THE WATER FLOW NOW UNDER-GROUND. BOTH TRIBUTARY AND STREAM HAVE MODERATE AMOUNTS OF SLASH AND OTHER LOGGING DEBRIS IN STREAM CHANNELS.

2 COHO (3½") AND 6 [illegible] (3" - 3½") WERE SEEN IN THIS STREAM AND ITS TRIB.



STREAM # 1 HAS BEEN FLAGGED WITH BLUE/WHITE FLAGGING FOR SOME 150 FT. TO WHERE STREAM APPEARS FROM SUBSTRATE, AND THE TRIBUTARY HAS BEEN FLAGGED WITH BLUE/WHITE FLAGGING FOR APPROX. 300 FT. TO END OF HABITAT. STREAM WAS TAGGED AT UNIT BOUNDARY — WEST FORK OF THE NORTH THORNE RIVER # 102-70-52

HAND CLEAN-UP OF SLASH AND OTHER LOGGING DEBRIS RECOMMENDED AS SOME 450 FT. OF SALMON HABITAT WOULD BENEFIT. (1800 sq. ft.)

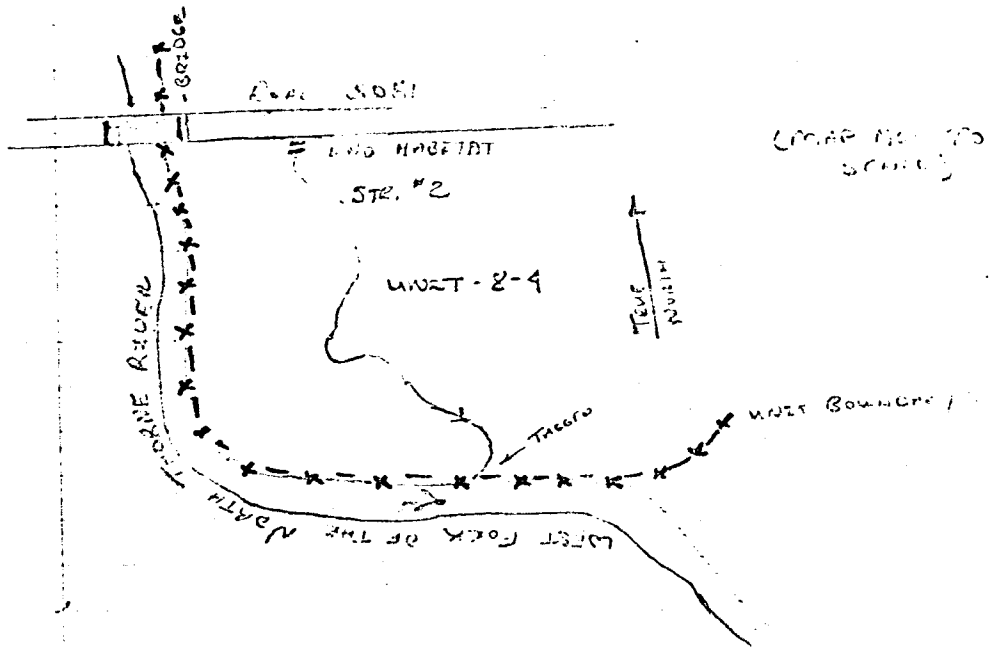
STREAM # 2

THIS STREAM IS APPROX. 4 FT. TO 5 FT. WIDE AND SOME 12 IN. TO 1 FT. DEEP WITH A SAND/SILT SUBSTRATE. THIS STREAM FLOWS INTO THE WEST FORK OF THE NORTH THORNE RIVER AT THE SOUTHERN BOUNDARY OF UNIT 2-4 AND EXTENDS SOME 1000 FT. INTO THE UNIT. STREAM HAS BEEN COMPLETELY [illegible] SLASH AND OTHER LOGGING DEBRIS. STREAM ENDED AT ROAD 5051 (NO CULVERT) AND COULD NOT BE LOCATED ABOVE (NORTH SIDE) ROAD 5051. POSSIBLY DUE TO REDUCED FLOW RATE, CONSIDERABLE ALGAE GROWTH OBSERVED.

9 COHO (3", 3½", 3½", 3½", 3½", 4", 4½", 4½" & 4½") AND 13 DOLLY VARDEN (1¼" TO 5½") WERE SHOCKED.

STREAM # 2 HAS BEEN FLAGGED WITH BLUE/WHITE FLAGGING FROM MOUTH OF STREAM FOR APPROX. 1000 FT. TO ROAD 5051 (END OF HABITAT). STREAM WAS TAGGED AT UNIT BOUNDARY — WEST FORK OF NORTH THORNE RIVER. #102-70-057

HAND CLEAN-UP OF SLASH & STICKS & LOGS DEBRIS RECOMMENDED AS SOME 1000 FT. OF SALMON HABITAT WOULD BENEFIT. (THIS STREAM AT PRESENT PROVIDES EXCELLENT REARING HABITAT BUT VIRTUALLY ALL SPAWNING HABITAT HAS BEEN DESTROYED, AND STREAM APPEARS TO BE PROGRESSIVELY BLOCKED BY ALGAL GROWTH DUE TO REDUCED FLOW RATE BY THE LOGGING DEBRIS.)

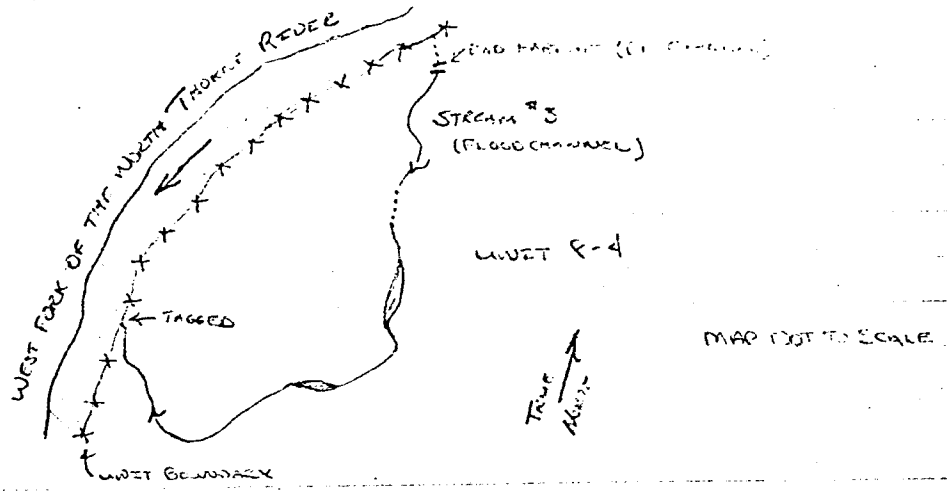


STREAM # 3

THIS STREAM IS A FLOOD CHANNEL OF WEST FORK OF THE NORTH THORNE RIVER; HAS A WIDTH OF 5 FT. TO 6 FT. AND A DEPTH OF APPROX. 12 IN. SUBSTRATE IS SAND/MUD/GRAVEL. THIS STREAM ENTERS THE WEST FORK OF NORTH THORNE RIVER AT THE EASTERN BOUNDARY OF UNIT 8-4, AND MEANDERS FOR APPROX. 1000 FT. BEFORE THE CHANNEL AGAIN CONNECTS WITH THE MAIN RIVER CHANNEL. THE STREAM IS BURIED BENEATH SLASH AND OTHER LOGGING DEBRIS.

11 COHO (2½", 2½", 2½", 3", 3", 3½", 3½", 4", 4", ~4½") AND 12 DOLLY VARDEN (1¼" TO 5") WERE SHOCKED.

STREAM # 3 HAS BEEN FLAGGED WITH BLUE/WHITE FLAGGING FROM [illegible] OF CHANNEL TO WHERE CHANNEL ENTERS MAIN RIVER. STREAM IS TAGGED AT UNIT BOUNDARY - WEST FORK OF THE NORTH THORNE RIVER #102-70-058.



STREAM # 3 (CONT.)

HAND CLEAN-UP OF SLASH AND OTHER LOGGING DEBRIS RECOMMENDED AS APPROX. 1000 FT. OF SALMON REARING HABITAT ( 5000 SQ. FT.) WOULD BENEFIT.

STREAM #4

THIS STREAM IS APPROX. 4 FT. TO 5 FT. WIDE AND SOME 6 IN. TO 8 IN. IN DEPTH WITH A SAND/GRAVEL/ROCK SUBSTRATE. THIS STREAM ENTERS THE WEST FORK OF THE NORTH THORNE RIVER AT THE EASTERN BOUNDARY OF UNIT 2-4. AT APPROX. 250 FT. UPSTREAM OF MOUTH, THIS STREAM SPLITS INTO 2 TRIBUTARIES. THE STREAM AND IT'S TRIBUTARIES HAVE BEEN ALMOST COMPLETELY BURIED UNDER SLASH AND OTHER LOGGING DEBRIS

10 COHO ( 2", 2", 2", 2", 2", 2, 2", 3", 3½" & 3½" ); 2 CUTTHROAT ( 5" & 5½" ) AND 7 DOLLY VARDEN (3" TO 5") WERE SHOCKED

THIS STREAM WAS TAGGED AT UNIT BOUNDARY (WEST FORK OF THE NORTH THORNE RIVER) AND FLAGGED WITH BLUE/WHITE FLAGGING FROM MOUTH TO THE JUNCTION OF THE TRIBUTARIES, AND THE NORTH TRIB. IS FLAGGED BLUE/WHITE FOR APPROX. 600 FT. WITH THE SOUTHERN TRIB. FLAGGED BLUE/WHITE FOR SOME 500 FT. WHERE AT THIS POINT IT APPEARS FROM SUBSTRATE.

STREAM #4

HAND CLEAN-UP OF SLASH AND OTHER LOGGING DEBRIS IS RECOMMENDED OF THE STREAM AND IT'S TRIBUTARIES — BLUE/WHITE FLAGGED HABITAT. ALTHOUGH THIS WILL ENTAIL A CONSIDERABLE AMOUNT OF WORK DUE TO THE VERY HEAVY DEBRIS COVER, APPROXIMATELY 350 FT. (4400 sq. FT.) OF SALMON HABITAT WOULD BENEFIT.

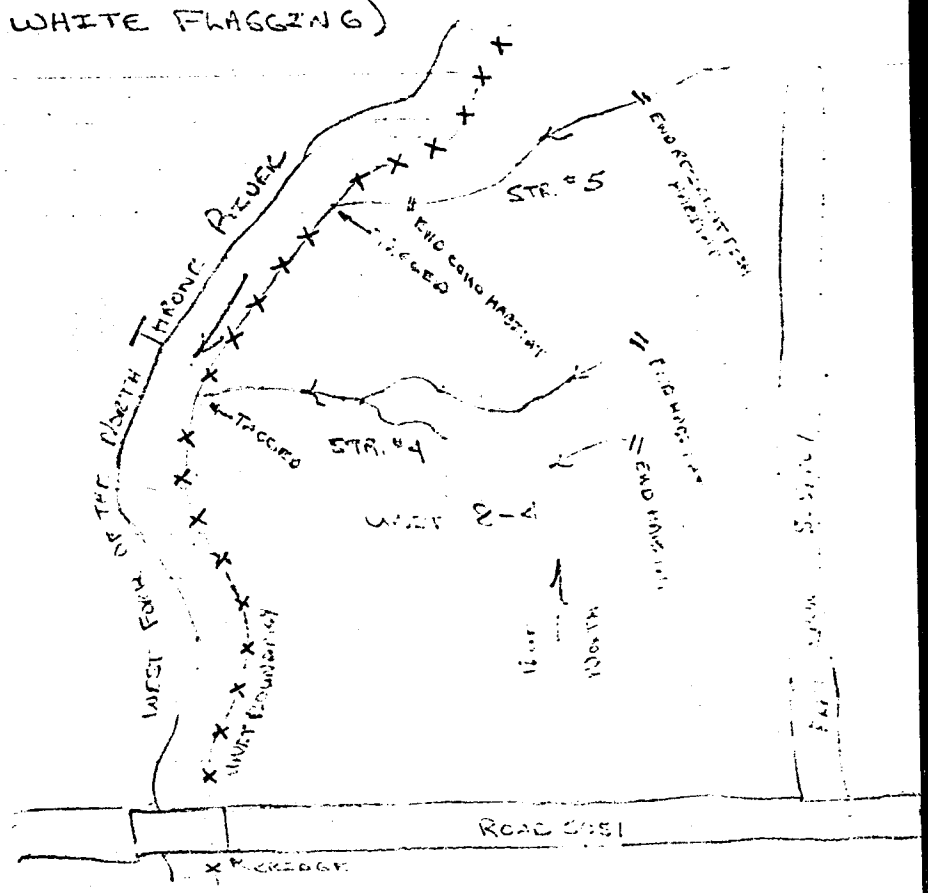
STREAM # 5

THIS STREAM IS APPROX. 3 FT. TO 4 FT. WIDE AND SOME 6 IN. DEEP WITH A SAND/GRAVEL SUBSTRATE. THIS STREAM ENTERS THE WEST FORK [illegible] THORNE RIVER ON [illegible] BOUNDARY. THIS STREAM HAS A GRADIENT OF APPROX. 5% [illegible] 2 COHO (2" & 2") AND 2 [illegible] (2½" & 4") WERE SAMPLED.

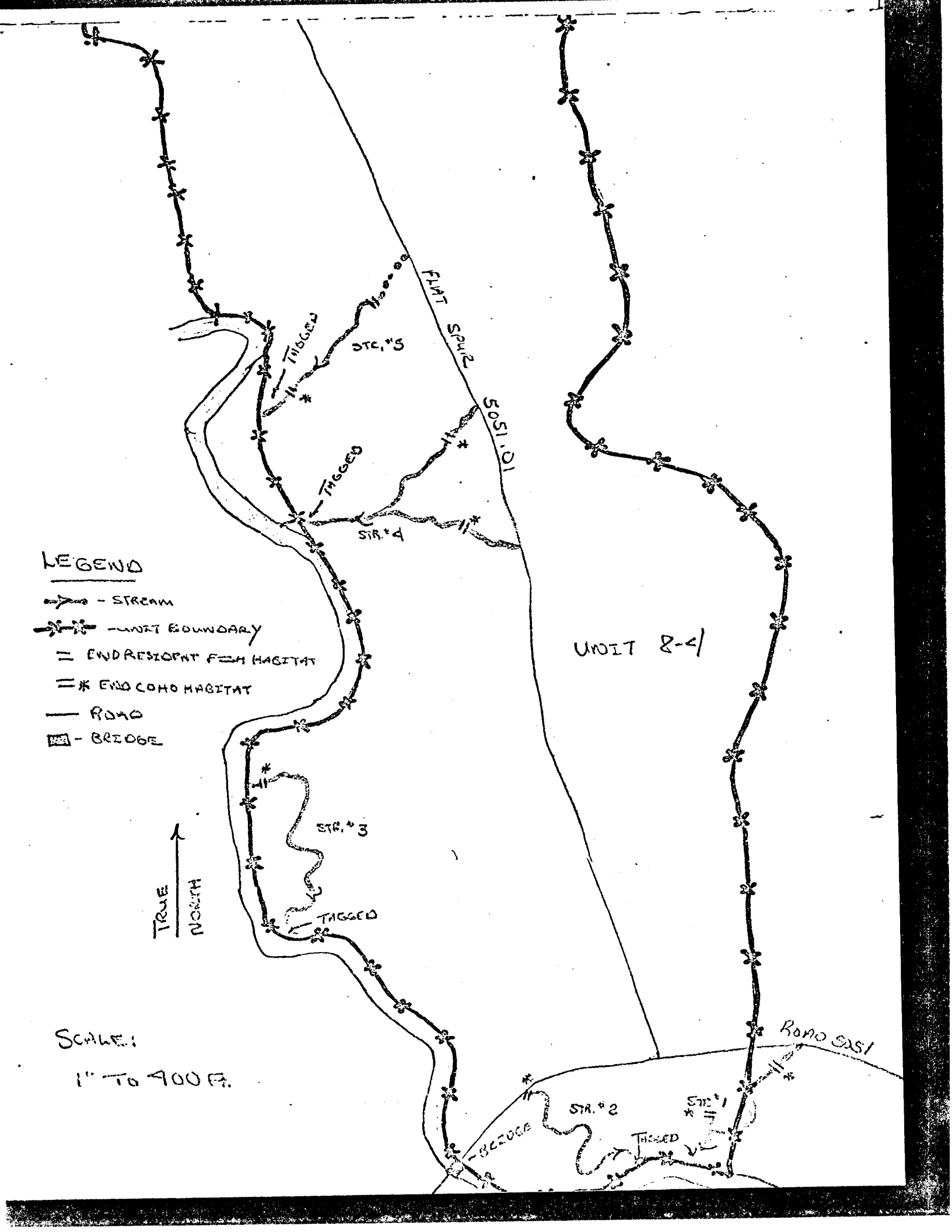
THE STREAM WAS TRACED [illegible] BOUNDARY - THE WEST FORK OF THE [illegible] THORNE RIVER AND FLAGGED WITH BLUE/WHITE FLAGGING FOR SOME [illegible] UP-STREAM FROM MOUTH. AT [illegible] STREAM WAS FLAGGED WITH [illegible]/WHITE FLAGGING FOR APPROX. 350 FT. FURTHER.

STREAM HAS BEEN BURIED WITH SLASH AND OTHER LOGGING DEBRIS

HAND CLEAN-UP OF SLASH AND OTHER LOGGING DEBRIS RECOMMENDED FOR APPROX. 200 FT. UPSTREAM OF MOUTH OF STREAM (BLUE/WHITE FLAGGING) AND CHUNK CLEANING IS RECOMMENDED FOR SAME 250 FT. FURTHER UPSTREAM (ORANGE/WHITE FLAGGING)




MAP NOT TO SCALE


FLAT SPUR
5051.01
TAGGED
STR. #5
TAGGED
STR. #4
UNIT 8-4
STR. #3
TAGGED
TRUE NORTH
ROAD 5051
STR. #2
STR. #1
TAGGED
BRIDGE
LEGEND
- STREAM
- UNIT BOUNDARY
= END RESIDENT FISH HABITAT
= * END COHO HABITAT
— ROAD
- BRIDGE
SCALE:
1" TO 400 ft.