cc Al Sorenson
Jim Wilson
Fish & Game
Jim Lincoln

Date: 23 SEPT 1978

Fish Stream Survey Report

103-60-075

Camp CRAIG / SOUTH HARRIS SALE Stream Name(ID) TROCADERO

T74S R83E Sec 32

Road# [illegible] 4020 Station# _____ Unit# 1 RP# _____

Quad Map CRAIG B-3 Section 32 Chick Map _____ Section _____

Fish Present	Yes	No
Above Road Crossing	✓	
Below Road Crossing	✓	
Within Unit Boundary	✓	
Below Unit Boundary	✓	

Species Present/Stage of Development COHO (FRY & SMOLT); DOLLY VARDEN (FRY & ADULT); & CUTTHROAT (FRY & ADULT)

Type of Fish Habitat

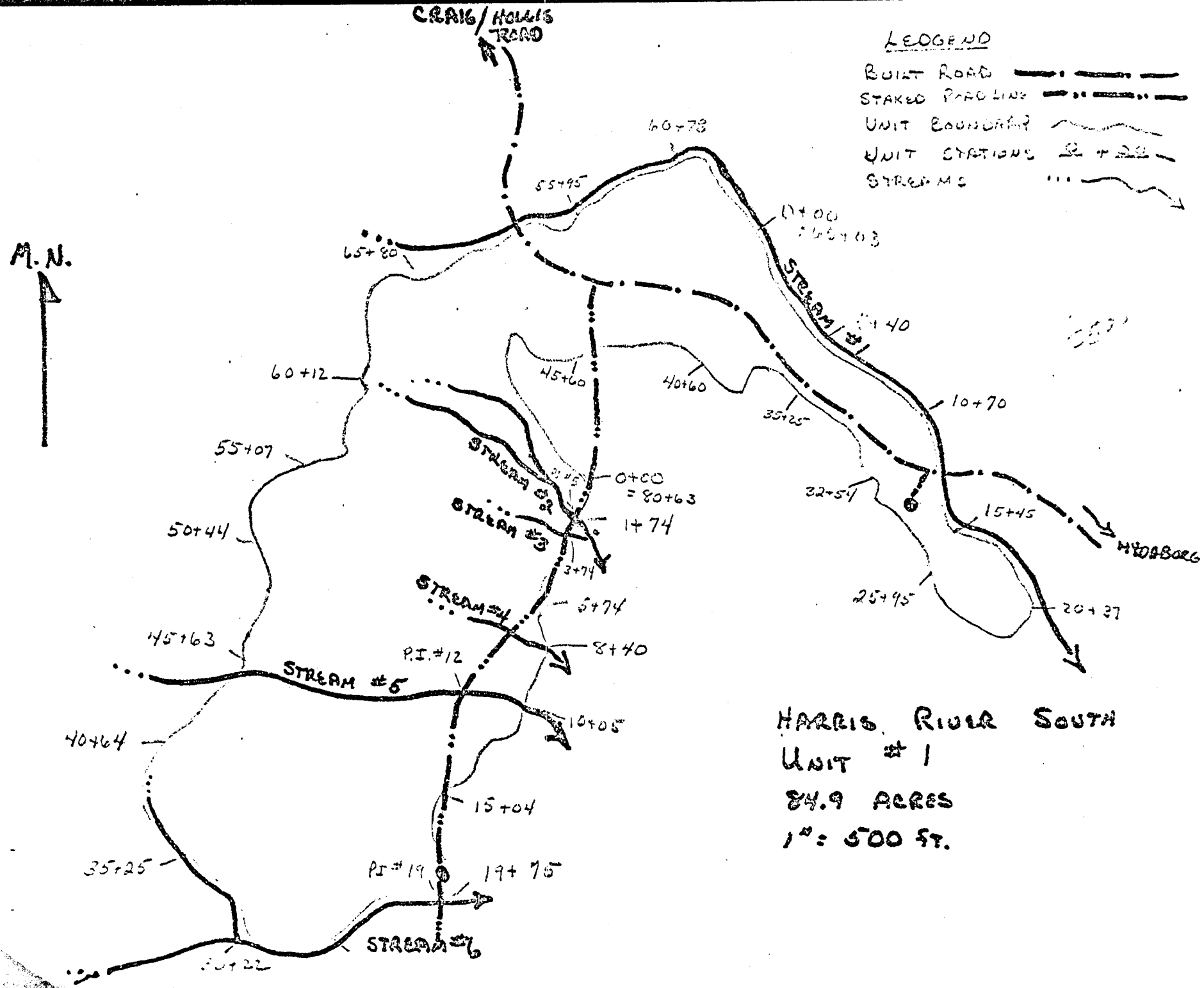
Salmon Spawning Area [illegible] sq yds Describe Excellent
Salmon Rearing Area [illegible] sq yds Describe [illegible]
Other X Area [illegible] sq yds Describe [illegible]

Stream Sketch or Map: Attach supplement if necessary:
SEE SUPPLEMENT

Method(s) used to determine presence of fish:

Date	#Fish	Approx Length	Gear	Length of Time Fished	STREAM No.
[illegible] '78	4 - COHO 3 - CUTTHROAT	2" to 3½"	SHOCKER	—	#1

DATE	#FISH		APPROX LENGTH	GEAR	TIME FISHED	STREAM No.
23 SEPT	2	COHO	2"	SHOCKER	—	#2
	1	COHO	2½"			# [illegible]
	7	COHO	3-3½"			#2B
	2	COHO	3"			#2B
	3	DOLLY VARDEN	2"			#2B
	1	DOLLY VARDEN	2½"			#2A
	3	DOLLY VARDEN	1½"			#2A
	1	DOLLY VARDEN	5"			#2A
	1	DOLLY VARDEN	3" (BELOW UNIT BOUNDARY)			#3
	1	DOLLY VARDEN	2½"			#4
	1	DOLLY VARDEN	4"			#4
	2	DOLLY VARDEN	3"			#5


CRAIG/HOLLIS ROAD
LEGEND
BUILT ROAD
STAKED PAD LINE
UNIT BOUNDARY
UNIT STATIONS
STREAMS
M.N.
60+78
55+95
0+00
65+80
STREAM #1
10+70
60+12
45+60
40+60
35+25
55+07
STREAM #2
0+00
= 80+63
STREAM #3
1+74
32+54
15+45
50+44
3+74
STREAM #4
6+74
25+95
20+37
45+63
P.I. #12
8+40
STREAM #5
10+05
40+64
15+04
35+25
P.I. #19
19+75
STREAM #6
HARRIS RIVER SOUTH
UNIT #1
84.9 ACRES
1" = 500 FT.

Is future fish habitat enhancement possible? Yes _____ No ✓
If yes Describe:

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

Pertinent Wildlife Information: No DEER, BEAR OR OTHER WILDLIFE SIGN OBSERVED

Stream in Flood Stage Due to Heavy Rains

Comments:
Trocadero is temperature sensative. ADF&G recommends deleting eastern portion of unit to protect fisheries or selective logging. Had Bartos Review... temp sensative problems - He agrees and would like to get additional data c̄ ADF&G Next summer to confirm. Recommend selective harvesting in eastern portion of unit to meet guideline and realize harvest - Letter from ADF&G attached for intox - Lets plan to spend a day in the field on this and see if we can come to solution agreeable to all resources - [illegible]

Survey Crew Members: Signature Date

Laura A Moff 23 SEPT 1978

[illegible] 25 Sept 1978

Report Reviewed By Michael E Navy Forester 10-25-78
Signature Title Date

Recommendations: See attached sheets for detailed recommendations. Note proposed road change on 4020 ① P.I. #5 - stream #2. Fall & yard away or fully suspend over all salmon habitat - 100% debris removal and 48 hr clean up required - Time operations on Trocadero to avoid activity with spawning fish in creek Chunk clear D.V. Habitat - Yard away or suspend over as recommended Navy

CRHS/SOUTH HARRIS RIVER SALE
UNIT #1
23 SEPTEMBER 1978

STREAM #1

THIS STREAM IS THE TROCKERO AND FLOWS THROUGH THE WEST SIDE OF UNIT #1. THE #4000 ROAD CROSSES THE STREAM TWICE W/ BRIDGES. THIS IS EXCELLENT COHO SPAWNING AND REARING AREA. HABITAT ENDS AT UNIT BOUNDARY TRAVERSE STATION 68+79.

STREAM #1 IS 12 TO 18 FT WIDE, AND 18 TO 36 INCHES DEEP WITH A ROCK/GRAVEL SUBSTRATE. STREAM GRADIENT IS LESS THAN 5% UP TO STATION 68+79 WHERE GRADIENT STEADILY INCREASES IN A SERIES OF 6 TO 10 FT FALLS IN A GORGE WITH 40 TO 50 FT ROCK WALLS. TWO TRIBUTARIES TO STREAM #1 ARE WITHIN UNIT #1 AT STATIONS 18+42 AND 20+42 (SEE STREAM MAP). STREAM WAS AT FLOOD STAGE DURING THIS SURVEY.

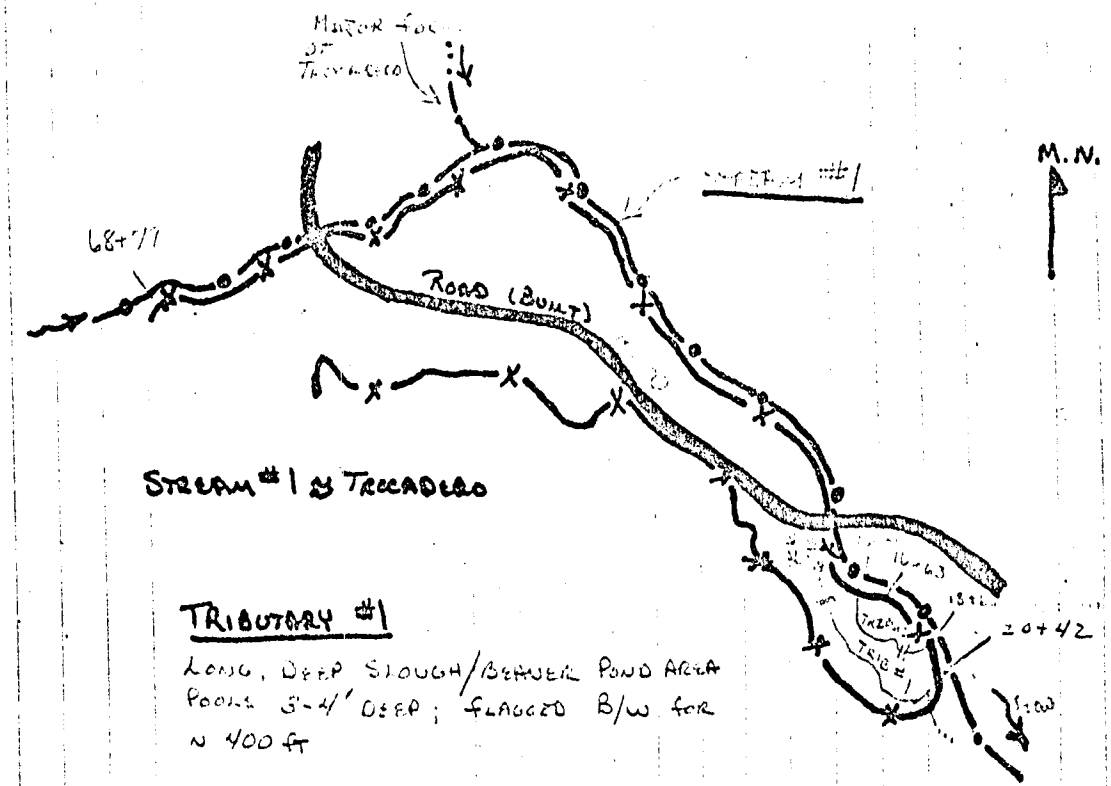
FLAGGED BLUE/WHITE STRIPE: 1) STREAM #1 FROM UNIT BOUNDARY TRAVERSE STATION 68+79 DOWNSTREAM TO STATION 20+42; AND 2) TRIBUTARIES TO STREAM #1 WITHIN UNIT BOUNDARY. TAGGED STREAM #1 AT BOTH BRIDGE CROSSINGS OF THE #4000 ROAD.

RECOMMEND Falling & yarding away or full suspension over (do include directional falling if necessary) FROM STREAM #1 AND ITS TRIBUTARIES, 100% debris removal & 48 hour CLEAN UP. HABITAT REQUIRES MAXIMUM FISHERIES PROTECTION. Time operations to avoid activity in creek with spawning fish on bed

CRAIG / SOUTH HAELIS RIVER SALE
UNIT #1
23 SEPTEMBER 1978

STREAM #1 (CON'T).

EAST SIDE OF UNIT #1



TRIBUTARY #1

LONG, DEEP SLOUGH/BEAVER POND AREA
POOLS 3-4' DEEP; FLAGGED B/W FOR
~ 400 ft

TRIBUTARY #2

OXBOW OF STREAM #1;
MAJORITY OF AREA IS DRY STREAM
CHANNEL; 6' WIDE; MANY COHO
FRY OBSERVED, FLAGGED 50' B/W STRIPED.

CRAIG / SOUTH HARRIS RIVER SALE
UNIT #1
23 SEPTEMBER 1978

STREAM #2 (ROAD PI #5 on #4020 ROAD UNIT TRAVERSE STATION 1+74)

THIS STREAM IS 4 FT WIDE, AND 4 TO 6 INCHES DEEP WITH LARGE POOLS 8 TO 18 INCHES DEEP. SUBSTRATE IS SAND/GRAVEL WITH < 5% STREAM GRADIENT. THIS IS EXCELLENT COHO REARING HABITAT. SHOCKED 3 COHO ABOVE THE UNIT BOUNDARY.

APPROXIMATELY 400 FT UPSTREAM FROM THE UNIT BOUNDARY STREAM #2 BRANCHES FORMING STREAMS #2A AND #2B. AT THE BASE OF STREAM #2A IS A 3 FT VERTICAL FALLS WHICH IS AN APPARENT COHO FRY BARRIER SINCE DOLLY YARDEN WERE THE ONLY FISH FOUND ABOVE THE FALLS. EXCELLENT HABITAT IS AVAILABLE FOR ~600 FT IN STREAM #2A ABOVE WHICH THERE IS A RISE IN GRADIENT AND THE STREAM DIVIDES INTO SEVERAL HILLSIDE DRAINAGES. EXCELLENT COHO REARING HABITAT CONTINUES IN STREAM #2B FOR ~600 FT WHEN IT ALSO DIVIDES INTO SMALL DRAINAGES. 9 COHO AND 3 DOLLY YARDEN WERE SHOCKED IN STREAM #2B.

FLAGGED STREAMS #2 AND #2B BLUE/WHITE STRIPE FROM THE UNIT BOUNDARY STATION 1+74 TO END OF HABITAT IN #2B. FLAGGED STREAM #2A ORANGE/WHITE STRIPE FROM FALLS TO END OF HABITAT. TAGGED STREAMS #2, #2A, & #2B ON THE UNIT BOUNDARY. [ROAD LINE PARALLELS THE UNIT BOUNDARY APPROXIMATELY 30 FT INSIDE THE UNIT.]

RECOMMEND FALLING AND YARDING AWAY or full suspension over Blue/White flagged portions of for STREAMS #2, & #2B ; AND 48 HOUR SLASH AND DEBRIS CLEAN UP. Yard away or suspend over 2A

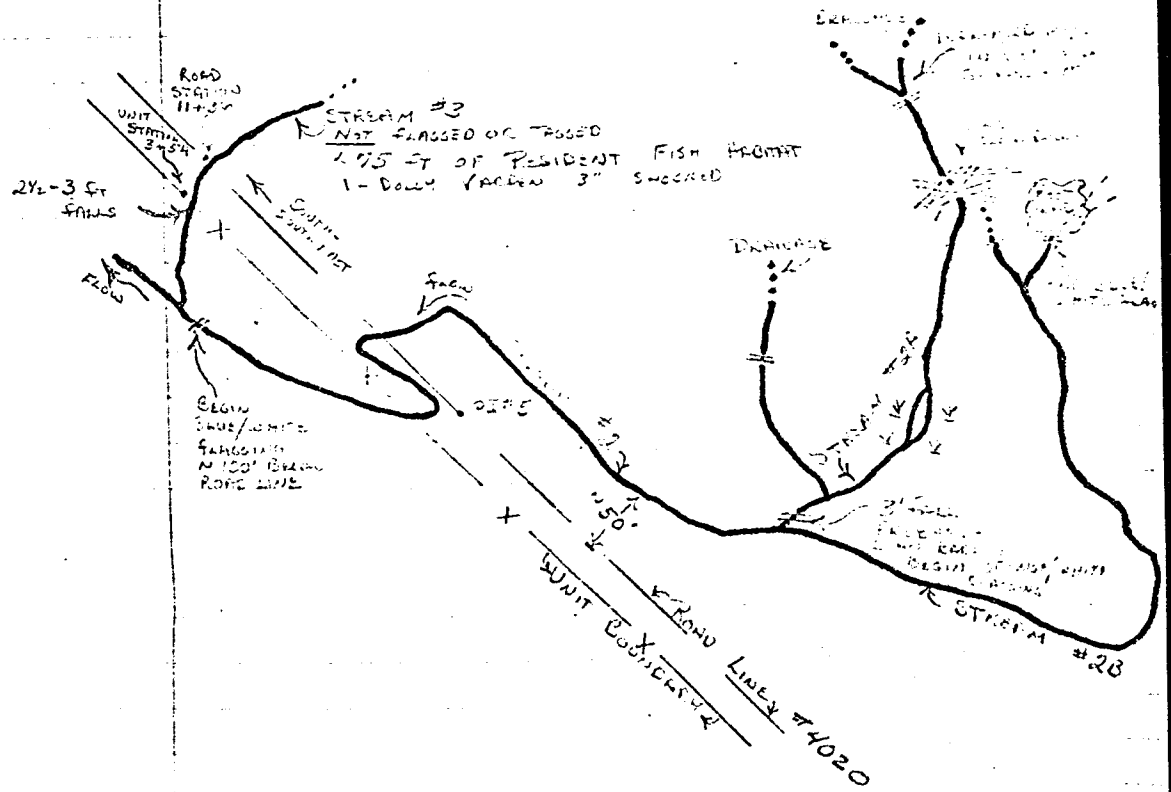
if possible, CHUNK CLEANING IS REQUIRED IN STREAM #2A, &

CRAIG / SOUTH HARRIS RIVER SALE
UNIT #1
23 SEPTEMBER 1978

STREAM #2 (CON'T)

FISH PASSING CULVERT REQUIRED WHERE ROAD CROSSES STREAM #2 AND DEBRIS REMOVAL CONCURRENT WITH ROAD BUILDING. APPROXIMATELY 200 FT OF COHO REARING HABITAT (STREAM #2) PARALLELS THE #4020 ROAD LINE 50 FT AWAY — RECOMMEND MOVING ROAD OR TAKING GREAT CARE TO INSURE THAT THIS PORTION OF STREAM #2 IS NOT RE-ROUTED &/OR DESTROYED BY ROAD BUILDING.

Note!



CRAIG / SOUTH HARRIS RIVER SALE
UNIT #1
23 SEPTEMBER 1978

STREAM #3 (ROAD STATION 11+36
UNIT TRAVERSE STATION 3+54)

THIS STREAM IS 1 TO 2 FT WIDE, AND 4 INCHES DEEP WITH A SAND SUBSTRATE. DIRECTLY BELOW UNIT BOUNDARY IS A 2 FT FALL. APPROX. 75 FT ABOVE UNIT BOUNDARY STREAM #3 BECOMES SEVERAL SMALL DRAINAGES. SHOCKED ONE DOLLY VARDEN. THIS STREAM IS FAIR RESIDENT FISH HABITAT. NOT FLAGGED OR TAGGED.

STREAM #4 (UNIT TRAVERSE STATION 7+40)

THIS STREAM IS 2 TO 3 FT WIDE, AND 3 TO 6 INCHES DEEP WITH A 4 FT FALL INTO A 1/2 TO 2 FT DEEP POOL AT UNIT BOUNDARY. SHOCKED TWO DOLLY VARDEN. GOOD RESIDENT FISH HABITAT.

FLAGGED 150 FT ABOVE UNIT COMPLETELY WITH ORANGE/WHITE FLAGGING. TAGGED AT UNIT BOUNDARY for those Orange/white portions

RECOMMEND CHUNK CLEARING AND WATER QUALITY PROTECTION. HARD ROAD LINE IS WELL ABOVE FISH HABITAT — NO FISH PROTECTION REQUIRED.