KIM TURLEY FRED LEIGLER
A.D.F.&G. MARK VAN TASSEL
Date: 11-8-79

Fish Stream Survey Report

Cat. # 103-60-029

Camp 1/2 way house Stream Name(ID) trib to stream

Road# 7520 Station# Unit# 44-42 RP#

Quad Map Craig C-3 Section Chick Map Section

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

Species Present/Stage of Development Dolly Varden, juvenile, adult, sea run (POSSIBLE)

Type of Fish Habitat

Salmon Spawning Area No sq yds Describe
Salmon Rearing Area No sq yds Describe
Other X Area sq yds Describe

Stream Sketch or Map: Attach supplement if necessary:
see supplement.

Method(s) used to determine presence of fish: shocker

Date	#Fish	Approx Length	Gear	Length of Time Fished
8-79				
am #1	1 Dolly Varden	6 inches	shocker	30 min
	1 Dolly Varden	5 inches		
	1 Dolly Varden	1 inch		
am #2	2 Dolly Varden	3 inches		
	1 Dolly Varden	1 inch		
am #4	1 Dolly Varden	3 inches		
	1 Dolly Varden	1 inch		
	3 Dolly Varden	4 inches		
	1 Dolly Varden	5 inches		

Is future fish habitat enhancement possible? Yes X No ____
If yes Describe:

See comments

Road and Unit boundary/fish stream intersection(s)
Marked with aluminum metal tags 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:

Comments:
See supplement

3 C.M.P. on the 5500 Road will probably need replacing, although, they apparently pass the larger spawners. They probably do not pass the smaller fish.

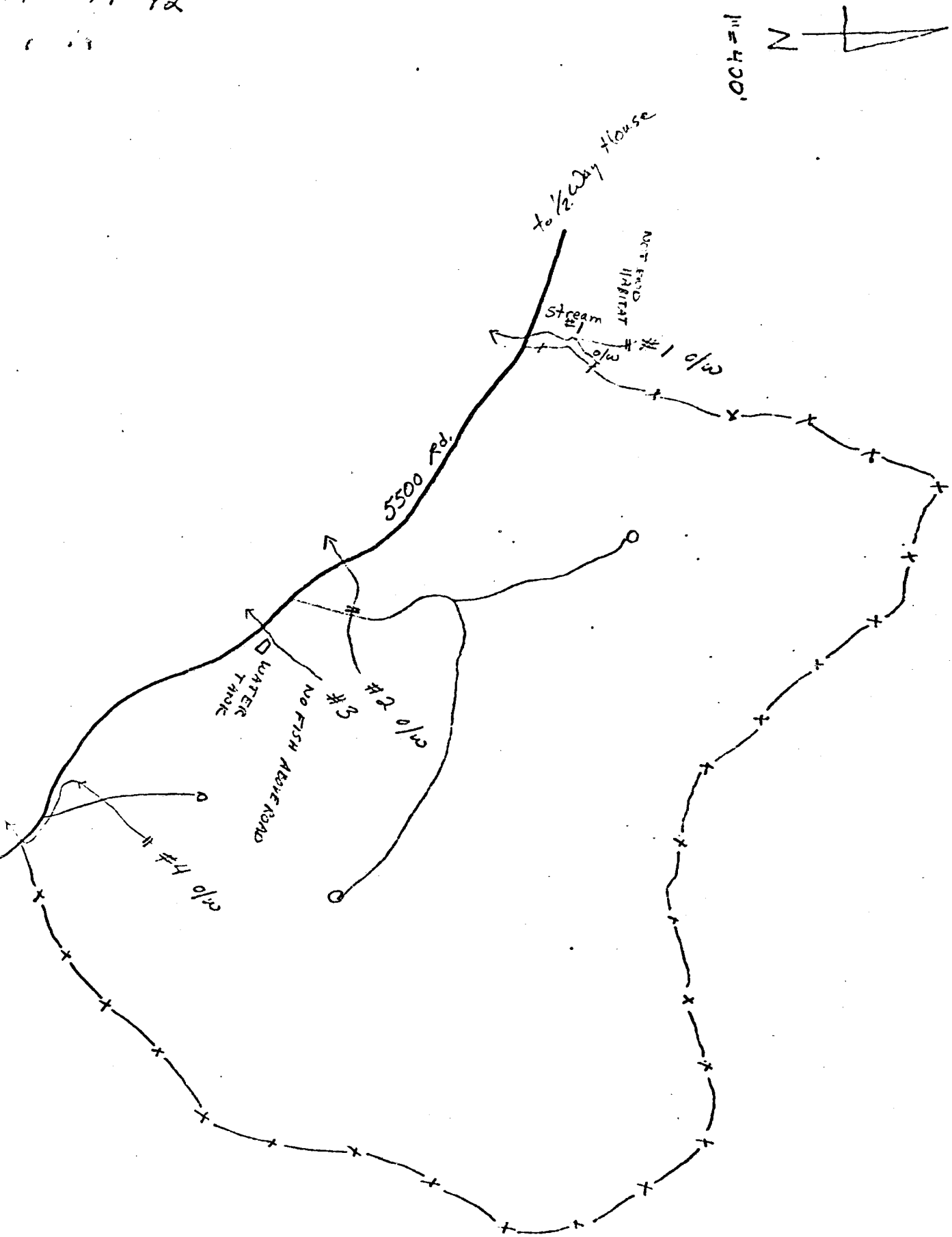
Survey Crew Members:	Signature	Date
Glenna Hopper	Glenna Hopper	11-9-79
Jim McCullough	Jim McCullough	11/9/79

Report Reviewed By Jim Hanlon (Signature) FISH TECH (Title) 11/16/79 (Date)

Recommendations: STR.S #1, #2, #4: PLEASE SEE ATTACHED SUPPLEMENTS FOR RECOMMENDATIONS.

THESE STR.'S SHOULD BE CONSIDERED CONTRIBUTING TO A DEFINIT SPORT FISHERIES HABITAT. IN ADDITION, SEE ATTACHED SUPPLEMENT ON SOIL SURVEY 10/2/79 FOR RECOMMENDATIONS CONCERNING WATER QUALITY PROTECTION ON STR.'S #1 #2 & #4.

MT 44-42



N
1" = 400'
to 1/2 Way House
NOT FOOD HABITAT
Stream #1
o/w
#1 o/w
5500 Rd.
#2 o/w
#3
NO FISH ABOVE ROAD
WATER TANK
#4 o/w

T: 444-42
-8-79

EAM #1 (Owen Creek)
This stream is 4-7 feet wide, 6-8 inches deep with
-24 inch pools. The substrate is Bedrock/Gravel/Sand.
ere is excellent pools with good spawning gravel.
e habitat is excellent spawning and rearing for
sident populations.
The stream is flagged orange/white and
ed at the road crossing. It is double flagged
t this is not the end of the habitat.
e stream borders the unit boundary for
veral hundred feet. The CMP on the 5500 Road
y need to be corrected as it has a 1.5 foot
ls that may inhibit fish passage.

OMMENDATIONS:
) Replace CMP on 5500RD for fish passage (FISH BARRIER).
) Directional falling or lining AWAY FROM STREAM
in areas close to stream #1.
48 hour removal of all introduced debris.
) No bucking or limbing in the stream.
) Full suspension REQUIRED OVER STR.

F Traversing is necessary the notes will
provided later

STREAM #2 (Morrow Cr.)

This stream is 3-4 feet wide, 3-6 inches deep, with 10-12 inch pools. The substrate is Rock/Gravel/Sand/Mud below the 5500 Road and primarily Gravel/Sand and Mud above the road crossing. The 5500 Road CMP is not passing fish adequately, however, Sea-Run Dolly Varden remains were found up stream. There is about 200 feet of habitat above the 5500 Road.

The stream is flagged Orange/white and tagged at the road. The stream was double flagged as the end of habitat where the spur road crosses. There is no fish passage required in the case of the spur road.

RECOMMENDATIONS

1) No fish passage required on spur road, however, there is habitat below the spur road and no debris should be introduced. (SEE RECOMM. #4)
2) Only one poclain crossing AT EACH STR. CROSSING.
3) directional fallings YARDING AWAY FROM STREAM.
4) 48 hour cleanup of introduced debris.
5) No bucking or limbing in the stream
6.) SPLIT ON STREAM.
7.) ROCKING CONCURRENT WITH CULVERT INSTALLATION

IF traversing is necessary the notes will be provided at a later date.

REAM # 3
100 FISH WERE FOUND.

REAM #4 (TOM CREEK)

This stream is #2 below the 5500 Rd on the Cullough/Staples report of 10-1-79. The stream s 2-4 feet wide, 2-6 inches deep with 10-15 nch pools. There are series of small falls with ools beneath them, and the stream is xcellent resident and searun Dolly Varden pawning and rearing habitat. The substrate s Rock/Gravel/Sand with approximately 60% Gravel.

This stream is flagged Orange/white for 000-1200 feet above the road (5000) to e end of habitat. The stream is tagged t the 5500 Rd. The spur road crosses ream #4 twice. The CMP on the 500 Road is passing spawning Sea Run lly Varden but there is a 12-18 inch alls and it is doubtful if it passes maller fish.

RECOMENDATIONS

Fish passage required on spur road during & after construction.
CMP Replacement on 5500 Road. FISH BARRIER
Only one poclain crossing AT EACH STR CROSSING
Directional falling or limbs AWAY FROM STREAM.
48 hour cleanup of introduced debris.
) chunk cleaning above fish habitat to prevent debris dams. (PROTECT FOR WATER QUALITY.)
No bucking or limbing in stream.
Split on the creek.
Culvert installation concurrent with roading.

KA

2550 Soil Surveys
2430 Commercial Timber Sales

Road Access and Logging in Unit 44-42

Mark Van Tassel

On October 2, 1979, Mark Van Tassel, Rick Atwell, and I recomned Timber Unit 44-42.

The Soils

The soils in this unit are generally somewhat poorly drained to moderately well drained over glacial till (Madleigh-Karta series). Along the spur road location there are many incipient drainages with corridors of disturbed soils (vegetated with devil's club). There are poorly drained organic soils included. The area is saturated much of the time and is relatively unstable even though the slopes are generally less than 45 percent.

Discussion/Recommendations

Due to the relatively unstable condition of the slope and the fact that substantial road cuts are necessary to maintain grade, there is a fairly high potential for debris avalanches. To minimize this potential, some areas of the road will require endhauling excavated material. The slopes below the road would not otherwise be able to support the added surcharge. Therefore, about 250 feet of road construction will require endhauling. This area is between station 7+00 and 9+50. The road cuts are between 3.5 and 9.5 feet at centerline on slopes between 35 and 50 percent (see Van Tassel's road notes for more detail).

Logging The Unit

Due to the steep slopes (up to 68 percent according to slope profiles run by Van Tassel), we should aim for partial suspension in logging above the road. This should keep ground disturbance to an acceptable level. Logging across the streams in this unit should be accomplish ideally, with skid trails going perpendicular to the stream. Skid trails oriented at a 30 degree angle to the stream should be a minimum requirement.

GERALD E. WEINER
Soil Scientist

WEINER/dmm/10/11/79 - 10/23/79