MARK VAN THIEL DAVE LOGAN

BD.F.&G

MIKE PEASE

Date: 11-6-79

Fish Stream Survey Report

103-80-31
Stancy

Camp Wilson Lodge

Stream Name (ID) West Fork

Road# Twin Spur Station# _____ Unit# 111-53 RP# _____

Quad Map _____ Section _____ Chick Map _____ Section _____

Fish Present

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

Species Present/Stage of Development Dolly Varden fry, Dolly Varden juvenile, Coho fry, Rainbow juveniles

Type of Fish Habitat

Salmon Spawning Area	✓	sq yds	Describe
Salmon Rearing Area	✓	sq yds	Describe
Other Sports Fisheries	✓	Area sq yds	Describe

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

Stream #4
Stream #5
Stream #6
Stream #7
Stream #8
Stream #8A

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

Date	#Fish	Species	Approx Length	Gear	Length of Time Fished
	3	Dolly Varden	1½ inch		
	1	Dolly Varden	¾ inch		
	3	Coho	1 inch		
	2	Coho	1.5 inches		
	2	Rainbow	6 inches		
	1	Rainbow	8 inches		
	1	Dolly Varden	5 inches		
	1	Dolly Varden	4 inches		
	1	Dolly Varden	3 inches		
	2	Rainbow	6 inches		
	3	Coho	1.5 inches		
	1	Dolly Varden	3.0 inches		
	1	Dolly Varden	6.5 inches		
	1	Dolly Varden	15 inches		
	2	Dolly Varden	10 inches		
	2	Dolly Varden	Approx 2 inches		
11-6-79	1	Dolly Varden	1.5 inches	shocker	1 Hour
	1	Dolly Varden	2 inches		
	1	Coho	2 inches		
	4	Rainbow	3 inches		
	3	Rainbow	5 inches		
	1	Coho	4 inches		
	3	Rainbow	4 inches		
	1	Rainbow	5 inches		
	1	Rainbow	4 inches		
	1	Dolly Varden	4 inches		
	2	Dolly Varden	3 inches		

Is future fish habitat enhancement possible? Yes X No ____

If yes Describe:

Stream # 86 has alot of debris from the clear of that has been washed down during high water flow. This could be cleaned out. It is an excellent sports fishery. Aslo other clearcuts along Twin Spur

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, If so attached completed fish stream parameter Data form Yes ____ No X

Pertinent Wildlife Information:

bear sign

Comments:

see supplement

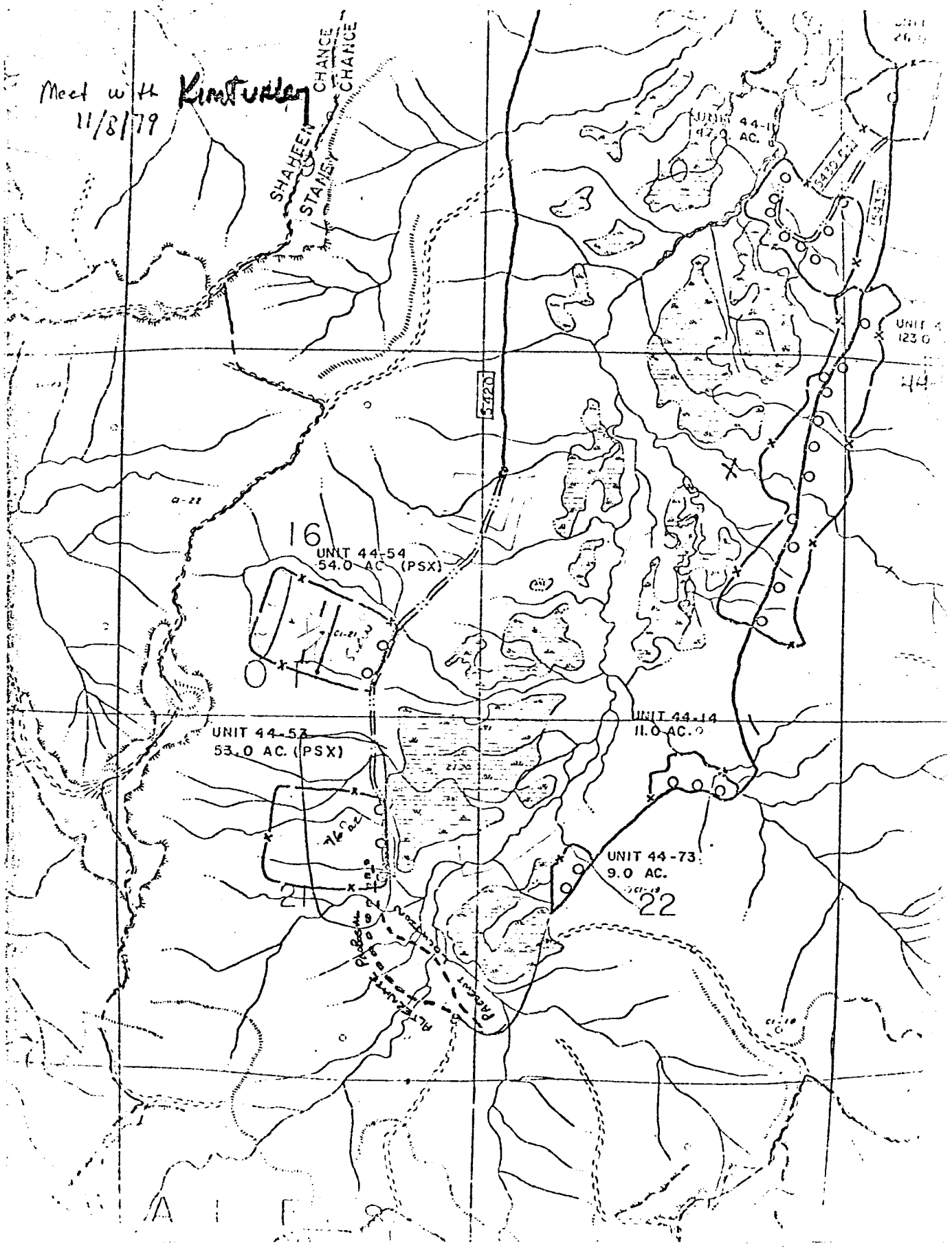
The road line will have to be relocated, see recommendations for specific sites, and other problem areas. We both feel that this road location will have serious detrimental effects upon all streams within the area.

Survey Crew Members:	Signature	Date
Glenna Hopper	Glenna Hopper	11-7-79
Jim McCullough	Jim McCullough	11/7/79

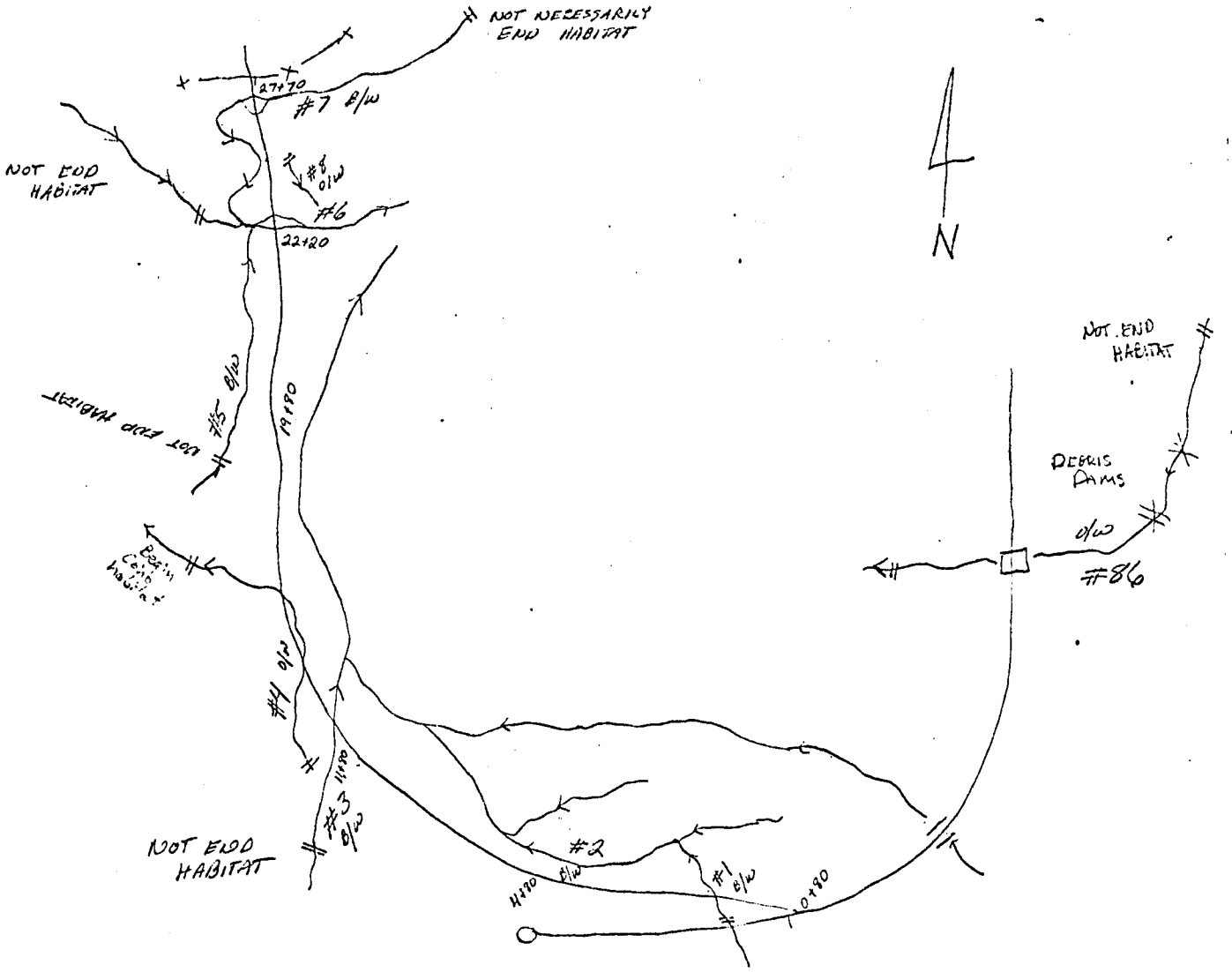
Report Reviewed By Jim Hamber (Signature) FISH TECH. (Title) 11/19/79 (Date)

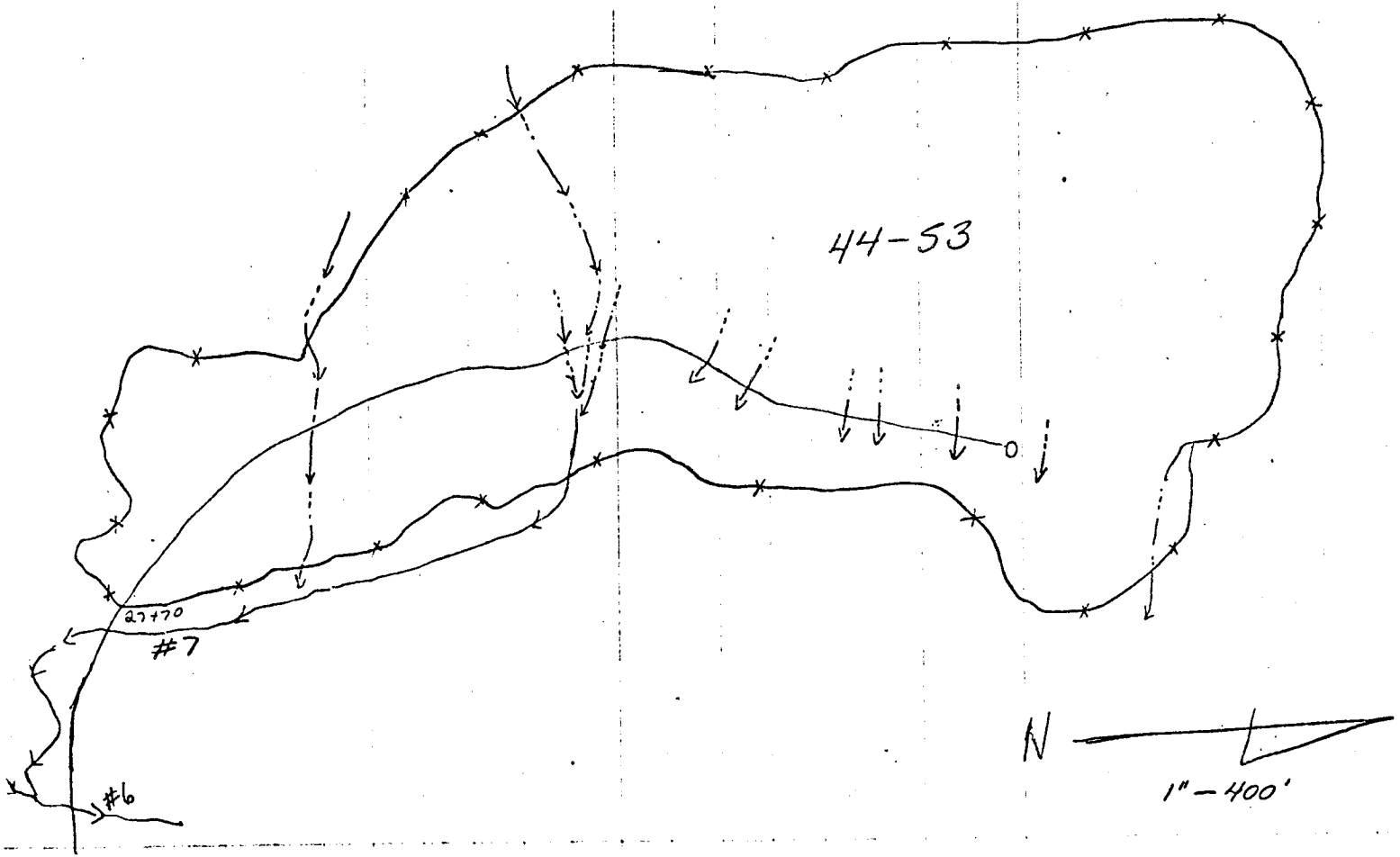
Recommendations: TWIN SPUR ROAD INTIAL LOCATION TO UNIT #41-53 IS UNACCEPTABLE DUE TO MAJOR ADVERSE IMPACT TO FISHERIES RESOURCE. A HIGER LOCATION OF ROAD MAY EASE THESE PROBLEMS (SEE ATTACHED MAP FOR ALTERNATE PROPOSAL.) SEE ATTACHED SUPPLEMENTS FOR SPECIFIC PROBLEMS WITH CURRENT LOCATION. ALSO, STR'S #1, #2, #3 + #86 SHOULD BE SCHEDULED FOR STR. CLEAN-UP IN 1980.

* NOTE: SOIL PROBLEMS ALSO EXIST IN AREA AND SOILS J.O.T. IS ADVISED IN SELECTION OF ALTERNATE LOCATION OF ROAD.


Meet with Kimturley
11/8/79
SHAHEEN CHANCE
STANLEY CHANCE
UNIT 44-10
47.0 AC.
UNIT 4
123.0
5420
16
UNIT 44-54
54.0 AC (PSX)
UNIT 44-53
53.0 AC. (PSX)
UNIT 44-14
11.0 AC.
UNIT 44-73
9.0 AC.
21
22
ALTERNATE PROBABLE
PRESENT LOCATION

TWIN SPUR UNIT 44-53




44-53
27+70
#7
#6
N
1" – 400'

Unit 44-53 Streams were looked at during low water flow conditions.

stream #1 P# 1+80

This stream is 1' to 3' wide and 2" to 6" deep with 10" to 16" pools. The substrate is rock/gravel/sand. Coho and Dolly Varden, some sea run, were shocked in the stream. Excellent Trout spawning/rearing stream. Flagged Blue/White from the downstream end of the culvert on the existing road to where it flows into stream #2. Tagged at the proposed road crossing. This stream is in a clear cut.

stream #2

This stream is 3' to 4' wide and 3" to 6" deep with 8" to 10" pools. The substrate is rock/gravel/sand with excellent salmon spawning/rearing potential. The stream is in the clearcut. Flagged Blue/White from it's junction with stream #1 to where it flows well away from the proposed road. The proposed road comes within 30' to 35' of the creek at P# 4+80 and several other places.

stream #3 P# 11+80

This stream is 8' to 15' wide and 4" to 8" deep with 12" to 20" deep pools, during high water flows the stream could be 20' to 25'

wide. The substrate is rock/gravel/with some sand. Excellent Rainbow trout spawning/rearing and some Coho spawning/rearing. Flagged Blue/White For 200' above road crossing, This is not the end of Coho, Rainbow Trout habitat, and for several hundred feet below the road. The stream borders the clearcut and the standing timber. Tagged at the proposed road/stream junction.

Stream #4 P# 14-80

This stream is 2' to 3' wide and 2" to 6" deep with 6" to 8" deep pools. The substrate is gravel/sand/mud. Dolly Varden were found in the stream, the stream has good rearing and fair trout spawning potential, 200' downstream other seeps enter the stream and Coho were found, From here to 450' upstream the stream was flagged orange/white, tagged at the road/stream junction. The road bed looks as it it will bury 150' to 200' of this stream.

Stream #5 P# 19+80

This stream is 3' to 5' wide and 6" to 8" deep with 12" to 15" deep pools. The substrate is rock/gravel/sand. This stream has excellent Rainbow Trout spawning/rearing potential and Coho spawning/rearing potential. The stream is flagged Blue/White for 200' above P# 19+80, not to the end of Coho habitat, and for several hundred feet downstream. The road in this area runs between stream #5 and #3 and is located close to the center of the land between these two streams. Tagged at P# 19+80, near the stream.

Stream #6 P# 21+50 to 22+50

This is a braided stream channel. The stream is 50' to 60' wide and 4" to 10" deep with 12" to 24" deep pools. The substrate is rock/gravel/sand, excellent salmon and Rainbow Trout and Dolly Varden spawning/Rearing potential. Flagged Blue/White upstream for 75' to where stream #7, enters stream #6 and downstream for several hundred feet. Tagged at P# 21+50.

stream #7 P# 23+00 to 27+70

This stream is 5' to 7' wide, 4" to 8" deep with 12" to 18" deep pools. The substrate is rock/gravel/sand, excellent Trout and Salmon spawning/rearing habitat. The stream is flagged Blue/White from its junction with stream #6 to 400' above P# 27+70 where a 3' falls was found, not necessarily the end of Coho habitat. Tagged at P# 27+70. The road comes with 10' of the stream at 24+00.

stream #8

This stream begins near P# 27+00 as a seep, at 24+00 Dolly Varden were found. This stream is 10" to 14" wide, 2" to 4" deep with 6" deep pools. The substrate is rock/gravel/mud. Trout habitat begins at about P# 24+00 and continues downstream. This stream has good Dolly Varden rearing and fair spawning potential. The road will probably bury the stream near P# 24+00. Tagged at P# 24+00.

Stream #86 on the gravel road before the proposed road line. The road uses a 42" CMP. During low water flows the culvert will not pass fish. This stream is 10' to 12' wide, 2" to 4" deep with 12" to 16" deep pools. The substrate is rock/gravel/sand. Sea run Dolly Varden up to 15" in length were found above the culvert. This stream could use stream clean up as debris has washed into the stream from the clearcut. Excellent Trout spawning/rearing. Flagged Orange White for 80' below the road and for 150' above the road.

RECOMMENDATIONS:

STREAM #1

1) FISH PASSAGE REQUIRED DURING AND AFTER CONSTRUCTION
2) CULVERT INSTALLATION CONCURRENT WITH ROCKING
3) ONLY ONE POCLAIN CROSSING AT EACH STR. CROSSING
4) 48 HOUR REMOVAL OF DEBRIS AFTER INTRODUCTION

STREAM #2

(MAY REQUIRE ADDITIONAL T.O.T. WORK)

MOVE THE ROAD LINE, SOUTH, TO AVOID ROCKING IN THE STREAM & STR. CHANNEL. AND/OR END HAULING MAY BE NECESSARY BETWEEN STATION'S 2+00 TO 6+00 TO PROTECT SALMON HABITAT.

STREAM #3

1) FISH PASSAGE REQUIRED DURING AND AFTER CONSTRUCTION
2) CULVERT INSTALLATION CONCURRENT WITH ROCKING
3) ONLY ONE POCLAIN CROSSING AT EACH STR. CROSSING
4) 48 HOUR REMOVAL OF INTRODUCED DEBRIS
5) DIRECTIONAL FALLING OR LIMBING OF Rt. away TIMBER AWAY FROM STREAM.
6) NO BUCKING OR LIMBING IN THE STREAM.

STREAM #4

1) FISH PASSAGE REQUIRED DURING AND AFTER CONSTRUCTION
2) Rd. LOCATION CHANGE AS TO AVOID ROCKING IN OF STR. CHANNEL
3) ONLY ONE POCLAIN CROSSING AT EACH STR. CROSSING

STREAM #4 (cont.)

4) CULVERT INSTALLATION CONCURRENT WITH ROCKING

5) CHUNK CLEANING

6) THE ROAD SEEMS TO BE LOCATED DOWN THE MIDDLE OF ABOUT 75-100 FEET OF THE STREAM. NO ROCK SHOULD INTERFERE WITH THE STREAM FLOW. — ONLY ONE CROSSING IS PREFERED. —

(SEE RECOMMENDATION #2 *)

7) NO BUCKING OR LIMBING IN THE STREAM

STREAM #5 (Rd. LOCATION CHANGE RECOMMENDED ^)

1) THIS STREAM PARALLELS THE ROAD LINE AROUND 19+80. NO ROCK SHOULD BE INTRODUCED INTO THE STREAM CHANNEL.

2) END HAULING MAY BE NECESSARY

3) DIRECTIONAL FALLING OF RIGHT OF WAY TREES AWAY FROM STREAM

4) 48 HOUR REMOVAL OF INTRODUCED DEBRIS (HAND CLEANING)

5) NO BUCKING OR LIMBING IN THE STREAM

STREAM #6 (Rd. LOCATION CHANGE RECOMM. AS TO AVOID TREES SALMON/TROUT SPAWNING CHANNEL)

1) THIS STREAM IS VERY WIDE AT THE ROAD CROSSING 21+50. A BRIDGE WILL PROBABLY BE NECESSARY.

2) ONLY ONE POCLAIN CROSSING AT EACH STR. Xing

3) 48 HOUR REMOVAL OF INTRODUCED DEBRIS

STREAM #6

4) DIRECTIONAL FALLING OR LIMBING AWAY FROM STR. CHANNEL

5) FISH PASSAGE REQUIRED DURING AND AFTER CONSTRUCTION

6) NO BACKING OR LIMBING IN THE STREAM

STREAM #7

1) FISH PASSAGE IS REQUIRED DURING AND AFTER CONSTRUCTION

2) A BRIDGE WILL PROBABLY BE NECESSARY AT THIS SITE

3) ONLY ONE ROCLAIM CROSSING AT EACH STR. CROSSING

4) 48 HOUR REMOVAL OF INTRODUCED DEBRIS

5) DIRECTIONAL FALLING OR LIMBING AWAY FROM STR.

6) THE ROAD LINE AT ONE POINT COMES WITHIN 10-15 FEET OF STREAM #7. THE ROAD SHOULD BE MOVED AWAY FROM THE STREAM, EAST. NO BACKING SHOULD BE INTRODUCED INTO THE STREAM CHANNEL. END HAULING MAY BE NECESSARY.

7) NO BACKING OR LIMBING IN THE STREAM

STREAM #8 (Rd. LOCATION CHANGE RECOMMENDED

1) THIS STREAM SHOULD NOT BE BLOCKED UP, the road may bury part of this stream. If so the road will have to be relocated.

2) FISH PASSAGE WILL BE REQUIRED IF THE ROAD IS LOCATED ACROSS THIS STREAM.

3) CHANNEL CLEANING CONCURRENT WITH ROAD BUILD

4) Directional falling, no bucking or limbing in the stream.

STREAM #86

THIS STREAM AS WELL AS SEVERAL OTHERS IN THE CLEARCUT MAY NEED STREAM CLEANUP. STREAM #86 ABOVE THE ROAD HAS ALOT OF DEBRIS DAMS THAT HAVE BEEN WASHED DOWN FROM THE CLEARCUT. THE REMOVAL OF THIS DEBRIS WILL ENHANCE THE FISH HABITAT.

STREAMS #1, #2, #3, #4, #5, #6, #7, #8

WHEN THE ROAD RIGHT-OF-WAY IS CUT THE FOLLOWING SHOULD BE OBSERVED

1) DIRECTIONAL FALLING OR LIMBING AWAY FROM STREAMS.

2) SPOT ON THE STREAMS OF FULL SUSPENSION

3) AVOID INTRODUCING TOPS INTO NEARBY

STREAMS 1-8

4) NO BUCKING OR LIMBING INTO THE STREAM

5) 48 HOUR REMOVAL OF ALL INTRODUCED DEBRIS. THIS MAY REQUIRE ALOT OF HAND CLEARING. In all streams.