cc Gary Lybrand
Mike Pease
fish and game

Date: 9/9/79

Supplement Report Stream #1

Fish Stream Survey Report

Initial Report by M. Collings & Hopper 6/21/79 103-90-006

Camp Naukati

Stream Name(ID) Stream #1

Road# Public Works Whale Pass → Naukati Station#

Unit# RP#

Quad Map Petersburg A-4 Section

Chick Map Section

Fish Present Yes X No

Above Road Crossing	X	
Below Road Crossing	X	
Within Unit Boundary	N/A	
Below Unit Boundary	N/A	

Species Present/Stage of Development Coho - Smolt & Fry Pinks - Adult
Dolly Varden - Fry & Adult

Type of Fish Habitat

Salmon Spawning Area	X	sq yds	Describe
Salmon Rearing Area	X	sq yds	Describe
Other Trout 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
Str #1	9/7/79	thousands of Adult Pinks observed in stream, 1 mile below road crossing, to stream mouth.			
		Coho Smolt and Fry shocked 3/4 mile below road crossing			

From 3/4 mile below road crossing to road

2 Dolly Varden 1½"
5 Dolly Varden 3"
2 Dolly Varden 4"
1 Dolly Varden 4½"

From Road Crossing to end of habitat

1 Dolly Varden 5"
5 Dolly Varden 4"

Is future fish habitat enhancement possible? Yes X No ____
If yes Describe:
More salmon habitat could be opened by blowing the old beaver dams. Adult pink salmon were observed to the first beaver dam.

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

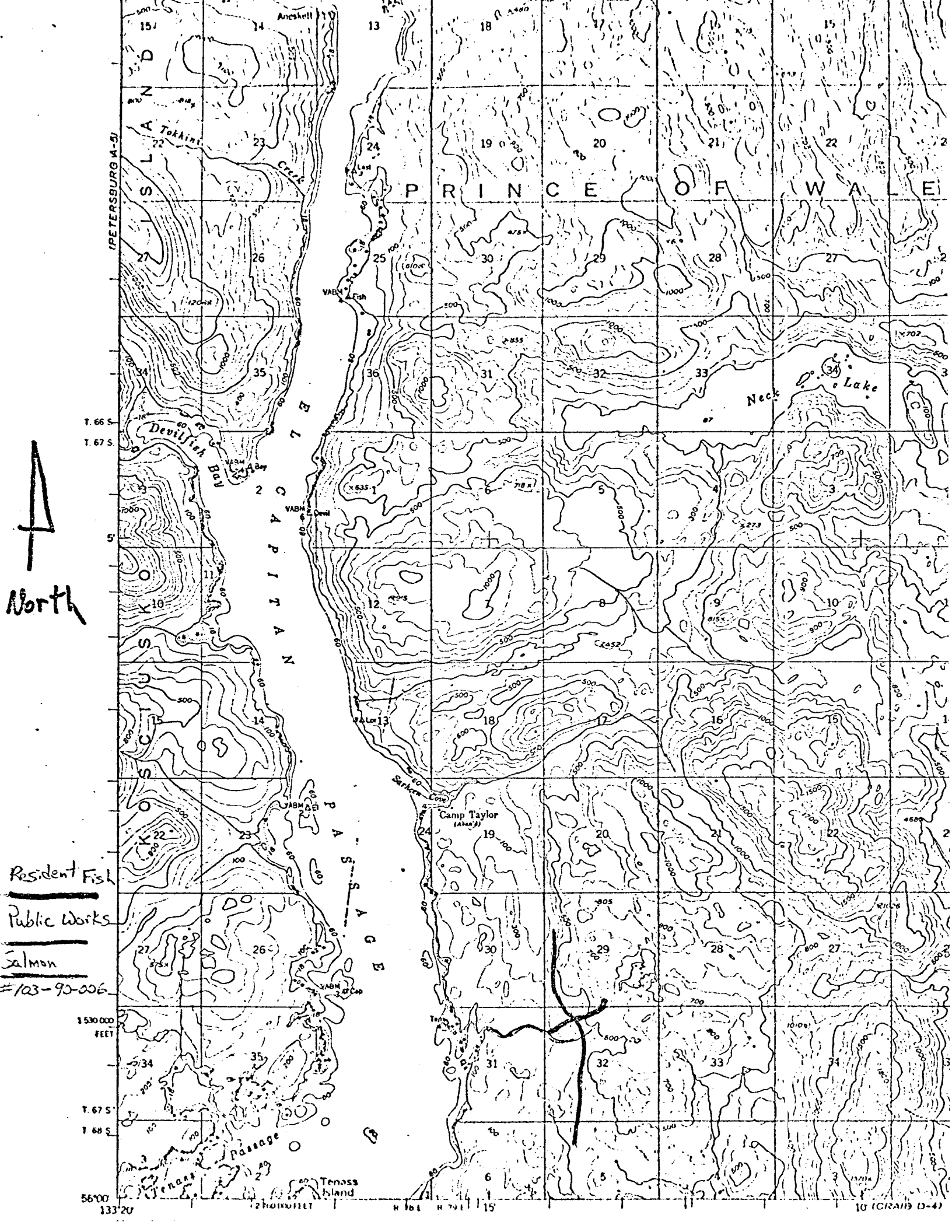
Pertinent Wildlife Information:
Heavy bear usease in salmon areas
Eagles -

Comments:
See report
Pease Fish Biologist may need to follow up on culvert installation to determine if baffled pipe successfuly passes fish

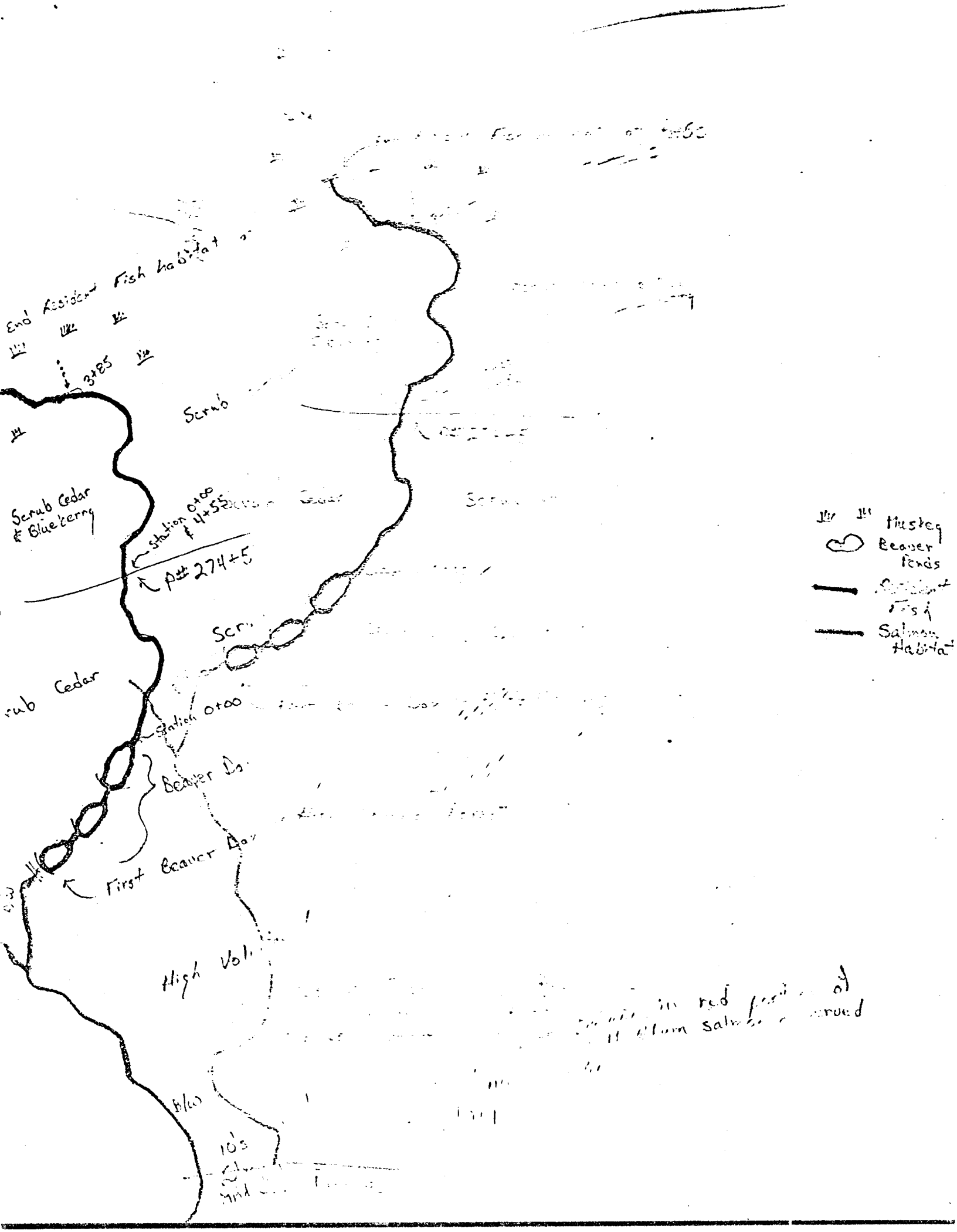
Survey Crew Members: Signature Date
Jim McCullough [signature] 9/3/79
Glenna Hopper [signature]

Report Reviewed By Michael E. Norris Wildlife Bio 9-19-79
Signature Title Date

Recommendations: See attached pages for detailed write up. Habitat above proposed road crossing is not extensive (4+60) although some of this is excellent to fair resident spawning gravel (0+00 to 3+20). Do not believe situation warrants bottomless arch pipe due to expense, design & installation problems. Recommend we try a baffled CMP despite gradient problems. Will give fish bio opportunity to follow up. Lets



North
Resident Fish
Public Works
Salmon
#103-90-006
PRINCE OF WALE
ISLAND
KOSCIUSKO
EL CAPITAN PASSAGE
Tokkini Creek
Devilfish Bay
Neck Lake
Camp Taylor
Sarkeen Cove
Tenass Passage
Tenass Island
(PETERSBURG A-5)
T. 66 S.
T. 67 S.
T. 68 S.
1 530 000 FEET
56°00'
133°20'
15'
10' (CRAIG D-4)


End Resident Fish habitat
3+85
Scrub
Scrub Cedar & Blueberry
station 0+00 & 4+55
P# 274+5
Scrub Cedar
station 0+00
Beaver Dam
First Beaver Dam
High Vol
B/W
10's
Muskeg
Beaver Ponds
Salmon Habitat

Stream #1

Cat # 103-90-006

Escapement Records Pinks 20 year Average

even years 19,683

odd years 2,314

1978 - 17,000

1977 - 1,000

1972 - 20,000

This stream crosses the proposed Whale Pass - Naukati Tie Road in the Public Works portion at P# 274+51. The stream temperature was 52°F. while the Air temperature was 55°F. The stream flows into El Capitan Passage approximately 2 miles south of Camp Taylor. Stream #1 is a major tributary of #103-90-006. Stream #1 flows into #103-90-006 approximately 1 mile from it's mouth. Adult pink salmon and Coho fry and smolt were found for approximately 2,500' from the junction of #103-90-006 / stream #1 into a series of beaver ponds. The beaver ponds extend for 1000' at a bearing of 195° and a gradient of 1%. There are three major dams the first being 4' to 4½' high which block adult salmon passage and appear to block fry and smolt passage, no salmon fry or smolt were found above the first dam.

Possible FRPO

The beaver ponds showed no receint beaver activity. Station 0+00 is located above the dam where free flowing water is found. The stream was flagged Blue/White below the beaver ponds and flagged Orange/White along the ponds to the end of fish habitat. The stream is tagged at the stream/road junction.

Begin survey at free flowing water above beaver dam
end at center line of road.

Station 0+00

substrate: rock/gravel/sand/moss
stream width: 1' to 3'
depth: 3" to 6" with 1' pools.
gradient: +4%
rearing potential: excellent 90%
spawning potential: excellent 90%
side slopes: +8% & +8%
fish: 1 Dolly Varden 3"

Station: 0+65

substrate: rock/gravel/sand/mud
stream width: 1' to 4'
depth: 4" to 5" several 2' pools.
gradient: +4%
rearing potential: excellent 90%
spawning potential: excellent 75%
side slopes: +9% & +5%
fish: 1 Dolly Varden 1½"

Station 1+35

substrate : rock/gravel/sand/moss

stream width : 1' to 2'

depth : 3" to 6" no pools

gradient : +4 %

rearing potential : good 50%

Spawning potential : excellent 90%

side slopes : +5% & +35%

Fish : 1 Dolly Varden 4½" & 1 Dolly Varden 5"

Station 2+10

substrate : rock/gravel

stream width : 1' to 3'

depth : 2" to 4" a couple 1' pools with 10" falls

gradient : +11 %

rearing potential : very good 70%

Spawning potential : good 60%

side slopes : +5% & + 35%

Fish : 1 Dolly Varden 4"

Station 3+00

substrate : rock/gravel/sand

stream width : 1' to 3'

depth : 2" to 4" 10" to 1½' pools

gradient : + 8 %

rearing potential : good 65%

falls : one 2' falls - not a barrier

Spawning potential: good 50%
side slopes: +50% & +55%
Fish: 1 Dolly Varden 1½" one Dolly Varden 3"

station 3+60

substrate: rock/gravel
stream width: 1' to 3'
depth: 2" to 3" 10" to 1' pools
gradient: +7
rearing potential: excellent 90%
spawning potential: fair 35%
Side slopes: +30% & +35%
Fish: 2 Dolly Varden 3"

station 4+25

substrate: rock/gravel
stream width: 1' to 2'
depth: 2" to 3" 1' to 2' pools with 1½' falls
gradient: +15%
rearing potential: excellent 80%
spawning potential: poor 30%
Side slopes: +30% & +30%

4+55 Road Center line

Station 0+00 Begins at Road Center line, to the end of fish habitat, upstream from road.

Substrate : rock/gravel/sand/moss
stream width : 2' to 3'
depth : 2" to 6" with several 2' pools and 1' falls
gradient : +14 %
rearing potential : excellent 80 %
spawning potential : fair 20 %
Fish : 1 Dolly Varden 4"
side slopes : +45 % & +25 %

Station 0+50

Substrate : rock/gravel/sand/moss
stream width : 3' to 4'
depth : 2" to 6" no pools
gradient : +6
rearing potential : fair 40 %
spawning potential : good 60 %
side slopes : +35 % & +30 %

Station 1+05

substrate : rock/gravel/sand/moss

stream width : 3' to 4'

depth : 2" to 6" with 1' to 2' pools several 6" to 1' falls

gradient : +10%

rearing potential : excellent 85%

spawning potential : good 70%

side slopes : +65% & +32%

Station 1+55

substrate : rock/gravel/sand/moss

stream width : 2' to 3'

depth : 2" to 4" with 1' pools 3-6" falls

gradient : +7%

rearing potential : excellent 90%

spawning potential : very good 75%

one Dolly Varden 4"

side slopes : +55% & +11%

Station 2+40

substrate : rock/gravel/sand/moss

stream width : 2' to 4'

depth : 2" to 4" with several 2' pools and a 1½' falls

gradient : 6%

rearing potential : excellent 80%

spawning potential : very good 75%

side slopes : +55% & +30%

Station 3+20

substrate: rock/gravel/sand/moss

stream width: 2' to 3'

depth: 2" to 4" with 1½' pools and a 1½' tail's

gradient: +14%

rearing potential: good 60%

spawning potential: fair 40%

fish: 1 Dolly Varden 2"

side slopes: +50% & +46%

Station 3+85 muskeg: sedges/grass/skunk cabbage

substrate: rock/gravel/mud/moss

stream width: 1' to 1½' wide

depth: 10" to 12" pools

gradient: +4%

rearing potential: good 60%

spawning potential: poor 20%

side slopes: +12% & +8%

Station 4+60

substrate

stream width

depth

gradient: +2%

rearing potential: fair 45%

spawning potential: none 0%

side slopes: +8% & +6%

STREAM #1

[redacted] TRAVERSE

SALE NAME Public Work Rd. Whale Pass-Naukati UNIT

CREW McCullough & Hopper DATE 9/7/79

WEATHER clear MAG TRUE X

PAGE 1 of 2

STA	SLOPE DIST.	% SLOPE	FS	Side Slopes Lt. ~~BS~~	Side Slopes Rt.	REMARKS
0+00						
	65	+ 4	150	+ 8	+ 8	
0+65						
	70	+ 4	190	+ 9	+ 5	
1+35						
	75	+ 4	150	+ 5	+ 35	
2+10						
	90	+ 11	155	+ 35	+ 60	
3+00						
	60	+ 8	140	+ 50	+ 55	
3+60						
	65	+ 7	135	+ 30	+ 35	
4+25						
	30	+ 15	100	+ 60	+ 30	
4+55						

From Free Flowing water above Beaver Dams to Road Center Line

GSA Juneau 1164

Stream #1

[redacted] TRAVERSE

SALE NAME Public Works Rd. Whale Pass → [redacted] Naukati

CREW McCullough & Hopper DATE 9/7/79

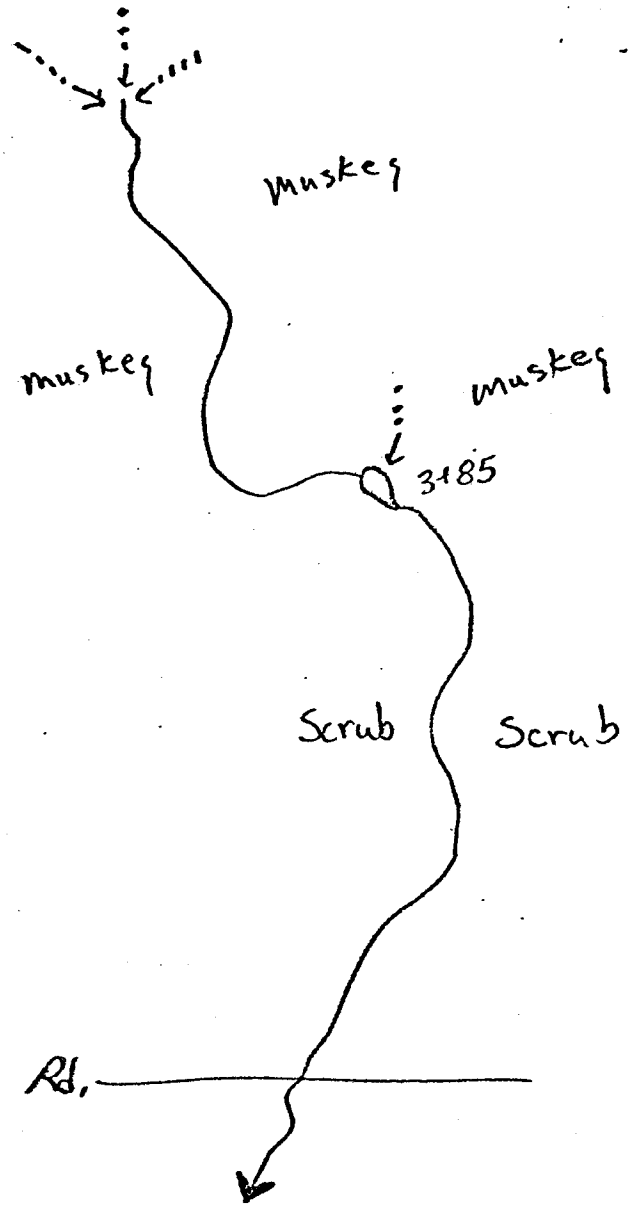
WEATHER clear MAG TRUE X

PAGE 2 of 2

STA	SLOPE DIST.	% SLOPE	FS	Side Slopes L. [redacted]	R. [redacted]
0+00					
	50	+14	130	+45	+25
0+50					
	55	+6	165	+35	+30
1+05					
	50	+10	220	+65	+32
1+55					
	85	+7	185	+55	+11
2+40					
	80	+6	155	+55	+30
3+20					
	65	+14	165	+50	+46
3+85					
	75	+4	70	+12	+8
4+60					
	100	+2	135	+8	+6
5+60					

Begin 0+00 at Road Center Line and go upstream to end of fish habitat.

BSA Juneau 1164


muskeg
muskeg
muskeg
3185
Scrub
Scrub
Rd.

STREAM #6 UPSTREAM FROM ROAD

UNIT TRAVERSE

SALE NAME Public Works Road UNIT

CREW Naukati - Whale Pass Tie DATE 9/6/79

WEATHER Cloudy MAG TRUE N

PAGE 1 of 2

STA	SLOPE DIST.	% SLOPE	FS	BS	REMARKS
0+00	AT ROAD XING		180+	85	
	75	+8	88°	+10	+11
0+75					
	85	+4	91°	+5	+6
1+60	Muskeg - underground				
	85	+3	107°	+4	+5
2+45	TRIB	6-A			
	65	+4	62°	+7	+5
3+10					
	75	+10	10°	+7	+12
3+85					
	110	+15	14°	+11	+23
4+95	END	Survey	- Marginal		habitat
				+13	+27

BSA Juneau 1164

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