FORM 3

LAKE OUTLET STREAM SURVEY

Summary Form

Stream identification (name, ID number, location of mouth) PORCUPINE RIVER 113-91-11 PORCUPINE BAY; ISLAS BAY; CHICHAGOF IS. Observers REIFENSTUHL, PARKER

Date 8-24-79 Weather & stream conditions CLEAR, LOW DISCHARGE

Stream physical features	Near the mouth 75m ABOVE TIDEWATER	Mid-stream sites (Give approx. distances from tidewater as column headings on row below) ~700m ABOVE TIDEWATER, 900m from LAKE			Near the lake (source) ~75m from LAKE
Width:	16m		8.2m		10m
Mean depth:	.35m		.75m		.35m
Gradient:	AVE. 3.5%		AVE. = 2%		AVE. = 2.5%
Velocity:	22m/15,17,16sec.		23m/12,10,17 SEC.		17.5m/10,11,11 Sec.
Discharge:	7.7 cu.m./sec.		10.9 cu.m./sec.		5.8 cu.m/sec.
Substrate:	Bedrock WITH BOULDERS + COBBLE		Bedrock & Boulders		Bedrock & Boulders
Temperature:	—		—		—
Elevation:	20'		100'		270' 285' AT LAKE

BARRIERS:

A. To upstream migrants -- falls, velocity barriers, logjams
   1. Number and type forming a definite &/or total block: 3 FALLS
   2. Approximate location of first definite &/or total block (from stream mouth): 150 m FROM TIDEWATER
   3. Number and type forming a possible &/or partial block: 2 FALLS, AT TIDE LEVEL + 300m upstream

B. To downstream migrants -- waterfalls and cascades (list in upstream order)
   1. Approximate height (m) and fish passage rating (G,Q,P)* at average flow conditions (e.g., 10mG, 8mP, 25mQ): 6mG AT LOW TIDE 6mG, 2mG, 23mG, 6.5mG
   2. Fish passage ratings (G,Q,P) at high flows (e.g., during spring freshets): 6mG, 6mG (Possible Barrier), 2mG, 23mG, 6.5mG
   3. Fish passage ratings (G,Q,P) during low flows: 6mG, 6mG, 2mG, 23mG, 6.5mG
   4. Identify falls (using codes from B_1 above) on which fish were test dropped: —

* (G, Q, P) = (Good, Questionable, Poor)

FISH COLLECTION SUMMARY:

Type and amount of gear	Gear location (e.g., riffle above 1st falls; pool above 3rd falls; logjam near tide)	Total elapsed time this gear type fished (trap/net-hrs)	Catch (Number, species, average length)	CPUE** (fish/hr)
MT(1)	~400m Below Lake	3.45	1; SCULPINS; 82 mm	0.29
MT(1)	~35m Below Definate Barrier #3	2.20	5; SCULPINS; 82.2 mm	2.27
MT(1)	BELOW DEFINATE BARRIER #1	1.05	0 — —	0

**Catch per unit effort

COMMENTS: NO ADULT ANADROMOUS FISH OBSERVED UP TO 1st DEFINATE BARRIER OR BELOW THE POSSIBLE BARRIER AT TIDEWATER. FOR 2/3 OF LOWER LENGTH OF STREAM (FROM TIDEWATER) SIDES OF STREAM HEAVY WITH COPPER BRUSH, CEDER SHRUB, BULL PINE, SITKA ALDER, MUSKEG, BUT SPARSE COVER IN STREAM (IE. UNDERCUTS, DEBRIS OR POOLS) FOR JUVENILES 4 PONDS WITHIN STREAM AFFORDS SIME PROTECTION, IN OVERALL VIEW THERE IS LITTLE HABITAT IN RIVER.