

LAKE OUTLET STREAM SURVEY

Summary Form

Stream identification (name, ID number, location of mouth) OSPREY LAKE OUTLET, 109-10-10;
BIG PORT WALTER; BARANOF IS. Observers REIFENSTUHL, PARKER

Date 8-30-79 Weather & stream conditions OVERCAST WITH SHOWERS; V. LOW FLOW

Stream physical features	Near the mouth	Mid-stream sites (Give approx. distances from tidewater as column headings on row below)	Near the lake (source)
	<u>20m ABOVE MOUTH</u>	<u>NO MIDSTREAM EVALUATION</u>	<u>50m DOWNSTREAM</u>
Width:	<u>7m (BRAIDED CHANNEL)</u>		<u>11.5m</u>
Mean depth:	<u>0.2m</u>		<u>1.5m</u>
Gradient:	<u>10% upstream, 4% downstream</u>		<u>< 1% up & downstream</u>
Velocity:	<u>9m / 13, 15, 14 sec.</u>		<u>VERY SLOW</u>
Discharge:	<u>0.9 cu.m. / sec.</u>		<u>—</u>
Substrate:	<u>BEDROCK AND COBBLE SIZE SLATE</u>		<u>ROCKY WITH DEBRIS</u>
Temperature:	<u>18.5°C</u>		<u>18.5°C</u>
Elevation:	<u>10' ABOVE SEALEVEL</u>		<u>125'</u> <u>(128' AT LAKE)</u>

BARRIERS:

- A. To upstream migrants -- falls, velocity barriers, logjams
 1. Number and type forming a definite &/or total block: 3 Falls, 1 LOGJAM, 1 WATER VELOCITY BARRIER
 2. Approximate location of first definite &/or total block (from stream mouth): 75m ABOVE STREAM MOUTH
 3. Number and type forming a possible &/or partial block: 1 MAN-MADE FALLS; 7' height and 10m from mouth
- 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): 10m G, 2m G, 4m Q, 8m G, 5m G
 2. Fish passage ratings (G,Q,P) at high flows (e.g., during spring freshets): 10m G, 2m G, 4m G, 8m G, 5m G
 3. Fish passage ratings (G,Q,P) during low flows: 10m G, 2m G, 4m Q, 8m G, 5m G
 4. Identify falls (using codes from B₁ 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)
	<u>No minnow traps set in outlet stream</u>			

**Catch per unit effort

COMMENTS: SURVEY STARTED 1600hrs AT MOUTH. FOR 10m (FROM TIDEWATER TO BACK OF OLD HOUSE) THE STREAM DISAPPEARS INTO BEDROCK. THE STREAM POSSIBLY AT ITS LOWEST FLOW (OSPREY LAKE INLETS NEARLY NON-FLOWING). MORTALITY FOR THIS OUTLET STREAM MOST LIKELY WOULD OCCUR FROM THE LOG JAM MIDSTREAM. THE BARRIER FALLS ARE SAFE FOR SMOLT PASSAGE.