

## LAKE OUTLET STREAM SURVEY

## Summary Form

Stream identification (name, ID number, location of mouth) BANNER LAKE; 109-10-24; LAKE 15" OF 2-LAKE CHAIN; PATTERSON BAY; BARANOF ISLAND Observers BOB VAUGHT; FRONTY PARKER

Date 7-17-79 Weather & stream conditions RAIN; HIGH FLOWS-

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>40m upstream</u>	<u>250m ABOVE LOWER BANNER LAKE</u>	<u>~10m DOWNSTREAM</u>
Width:	<u>12m</u>	<u>7m</u>	<u>13m</u>
Mean depth:	<u>~0.22m</u>	<u>0.4m</u>	<u>0.33m</u>
Gradient:	<u>~7%</u>	<u>~10%</u>	<u>6%</u>
Velocity:	<u>20m/12 sec</u>	<u>~20m/7 sec</u>	<u>20m/12 sec</u>
Discharge:	<u>~4.4 cu.m./sec.</u>	<u>~8 cu.m./sec.</u>	<u>7.15 cu.m./sec.</u>
Substrate:	<u>ROCKY; TREE DEBRIS</u>	<u>Boulder to Bedrock</u>	<u>Rocky, COBBLE</u>
Temperature:	<u>11°C</u>	<u>11.25°C</u>	<u>11.5°C</u>
Elevation:	<u>15' ABOVE FIRST LAKE</u>	<u>50' ABOVE 1<sup>st</sup> LAKE</u>	<u>165' above 1<sup>st</sup> lake 165' = ELEVATION BETWEEN THE TWO LAKES</u>

## BARRIERS:

- A. To upstream migrants -- falls, velocity barriers, logjams
- Number and type forming a definite &/or total block: 1 (SERIES OF FALLS)
  - Approximate location of first definite &/or total block (from stream mouth): ~270m ABOVE LOWER BANNER INLET
  - Number and type forming a possible &/or partial block: NONE
- B. To downstream migrants -- waterfalls and cascades (list in upstream order)
- Approximate height (m) and fish passage rating (G,Q,P)\* at average flow conditions (e.g., 10mG, 8mP, 25mQ): 40m G
  - Fish passage ratings (G,Q,P) at high flows (e.g., during spring freshets): 40m G
  - Fish passage ratings (G,Q,P) during low flows: 40m Q
  - Identify falls (using codes from B<sub>1</sub> above) on which fish were test dropped: none

\* (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>1 MTU</u>	<u>NEAR BASE OF BARRIER #1; Pool ~1.5m deep.</u>	<u>6.33</u>	<u>0</u>	<u>0</u>
<u>2 MTU</u>	<u>~25m ABOVE MOUTH; Riffle Area</u>	<u>6.33</u>	<u>6 DV, 123.6mm 12 Sculpins, 65.5mm</u>	<u>0.95 1.89</u>
<u>3 MTU</u>	<u>~5m ABOVE MOUTH OF LK. B OUTLET; CUTBANK, ~0.2m Deep.</u>	<u>6.33</u>	<u>29 DV, 148.1mm</u>	<u>4.58</u>

\*\*Catch per unit effort.

COMMENTS: WITH THE EXCEPTION OF THE MOUTH OF THE OUTLET STREAM, VERY LITTLE REARING HABITAT IS AVAILABLE. VERY STEEP GRADIENT MOST OF THE WAY.