

103-90-0580

103-90-58  
Charley Creek  
8/19/78  
Berg

1092'  
(331m)

Weather: clear  
Tide: low  
Water: brown tint, clear  
8.5 pl

119.1m  
335°  
1.5%

well shaded stream

15' riffles

13' wide  
2' high cascades

40' channel width  
spawning habitat improves  
in this station

smooth/rounded substrate

40% boulders }  
30% cobbles } moss covered  
30% gravel }

10% ASA  
10/90 pool/riffle

stable cut banks

45% for 50'  
20% beyond

20% slope

High Tide

dense salmonberry brush  
throughout

699'  
(212m)

60% boulders }  
40% cobbles } overlay mud

50' channel width  
12' riffles

3' deep pool

dense fucus and green  
algae on substrate

stable banks throughout  
with thick vegetative  
cover of moss and brush

120' channel width  
15' riffles

211.8m  
325°  
1%

20% slope for 300'+

10% slope for 300'+

poor spawning area

0% ASA  
10/90 pool/riffle  
little spawning, but  
side pools contained  
5 trout each

40' x 3.5' holding pool

Craig D-5

OSCIUSKO ISLAND

103-90-58

Edna  
Bay

pink salmon observed  
finning & jumping  
off mouth

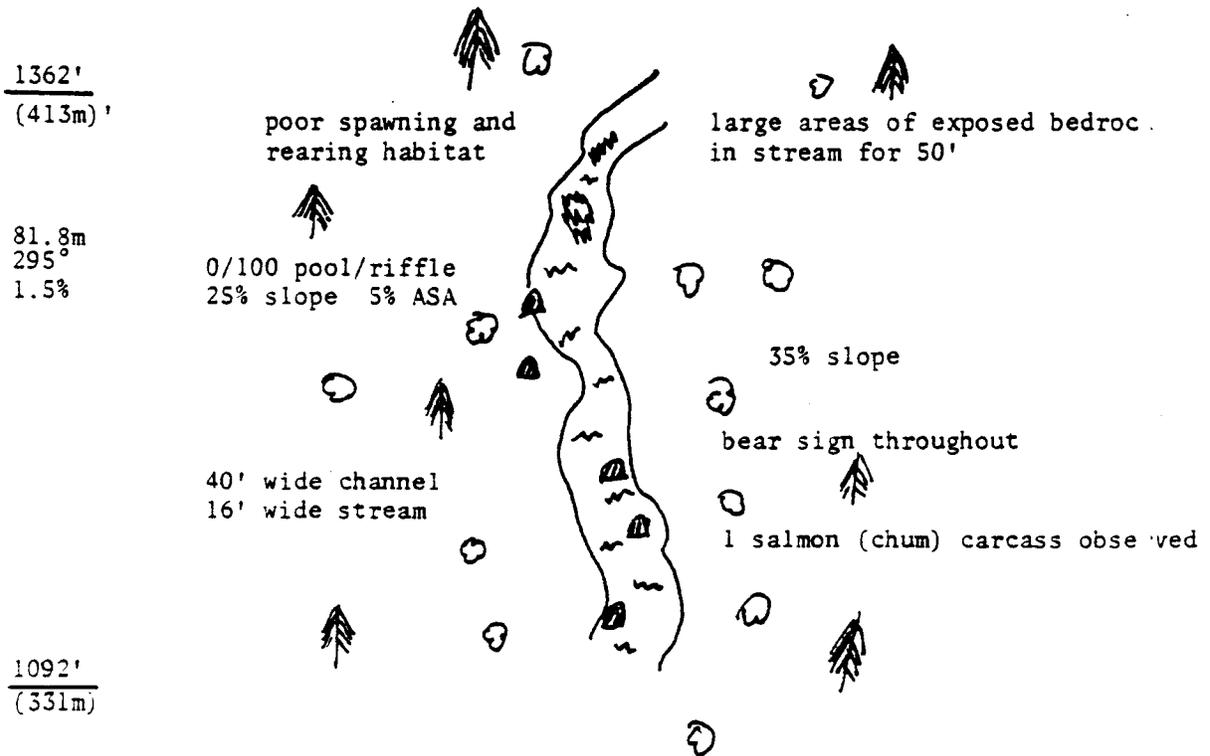
0'

103-90-58  
Charlie River  
Upper area



103-90-58  
Charlie River  
at mouth





Charlie Creek

Map No. 2  
Larson

Much of the stream has a sluggish velocity and marginal spawning facilities. 1282 meters<sup>2</sup> of good spawning area in this section. Excellent rearing potential. Large numbers of rearing coho and both adult and rearing Dolly Varden observed.

clearcut area

1050'  
—  
44M  
5°  
0% gradient  
  
905'  
—  
50M  
332°  
1% gradient  
  
741'  
—  
49M  
278°  
.5% gradient  
  
580'  
—  
32M  
235°  
1.5% gradient  
  
475'  
—  
101M  
237°  
.25% gradient  
  
144'  
—  
44M  
265°  
.5% gradient  
  
0'  
—

5% bedrock  
10% boulders  
65% cobbles  
20% gravel

25% slope  
100% slopes  
fractured bedrock  
All of the rocks look like they're covered with a thin layer of silt trapped there by periphyton dense moss

high caddis fly larvae population  
large spruce  
4' high slightly undercut easily disturbed banks  
thick devilsclub brush on banks

good rearing for coho and Dolly Varden  
22 coho and 8 Dolly Varden observed in 3' X 5' pool

25/75 pool-riffle

Large numbers of rearing coho & Dolly Varden

15% slopes

3.5' deep pool

60/40 pool-riffle (36' X 45% ASA)

15' wide, 8" deep

46' 6" deep

1' deep

sluggish current

good spawning riffles  
30 large Dolly Varden (several near 3 lbs.)

5% slopes

36' 8" deep

5% slopes  
15% ASA

swift riffles over bedrock, small boulders, cobbles, and small patches of gravel (30' X 15% ASA)

5% slopes

3' high undercut fragile banks

much of this section has a current velocity too slow for good spawning  
35% ASA

5% boulders  
5% cobbles  
90% gravel

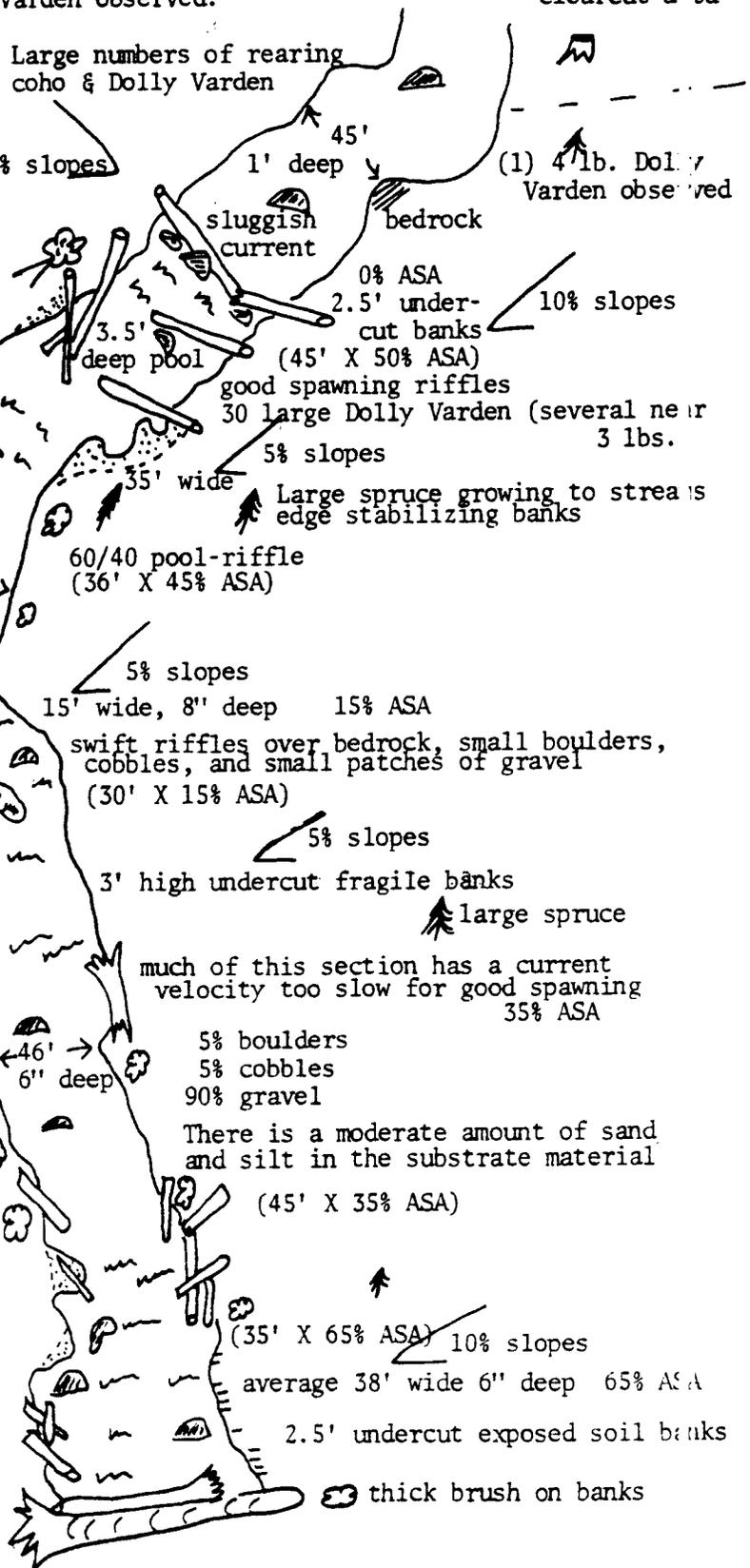
There is a moderate amount of sand and silt in the substrate material (45' X 35% ASA)

(35' X 65% ASA) 10% slopes

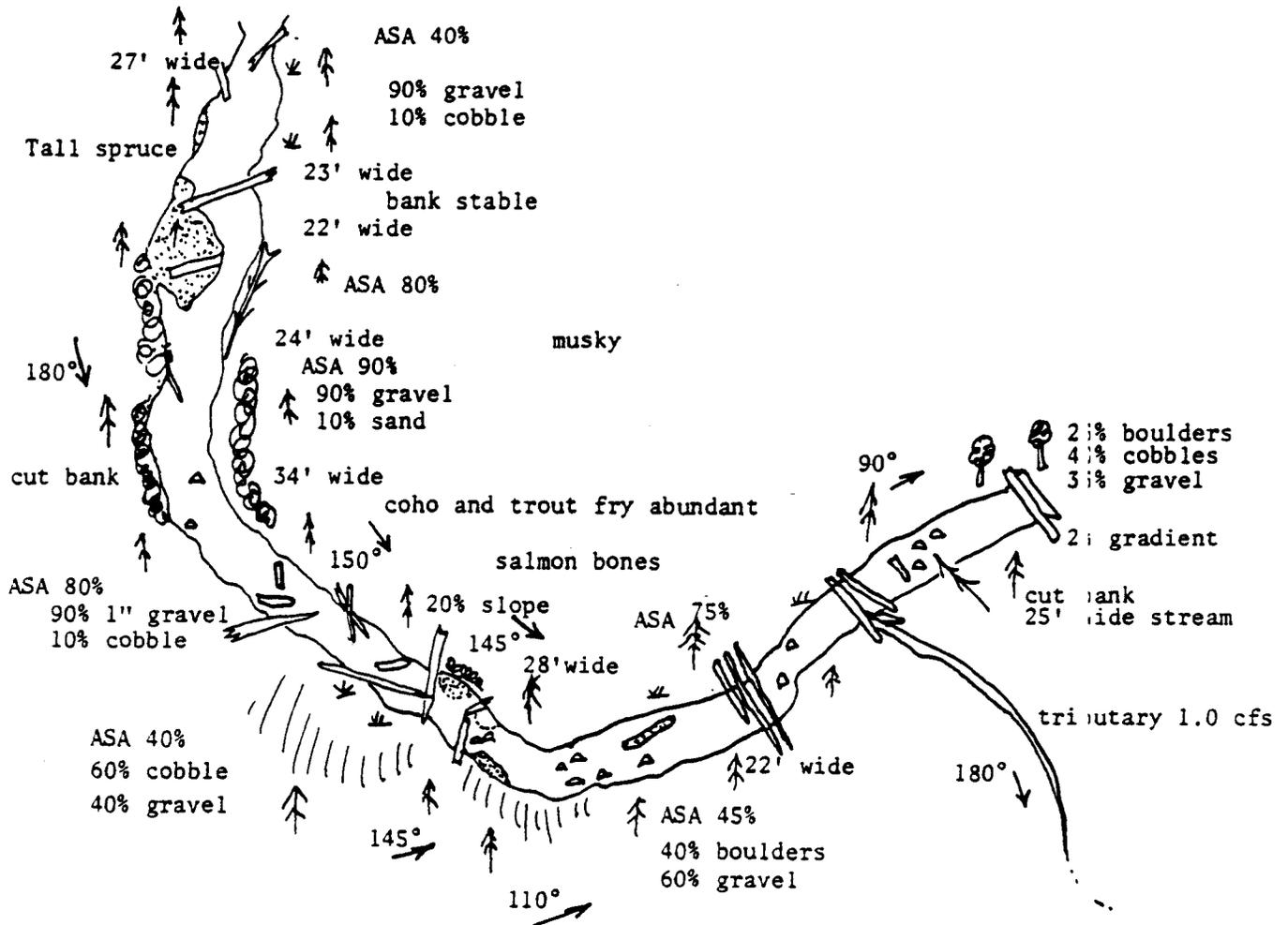
average 38' wide 6" deep 65% ASA

2.5' undercut exposed soil banks

thick brush on banks



103-90-58  
 Charlie River  
 Edgington  
 8/19/78



Weather: clear  
 Water: clear  
 Air temp: 56°F  
 Water temp: 48°F  
 Flow: 7 cfs  
 Gradient: 1% to 2%  
 Length of stream section: 875'  
 ASA average 68%  
 P/R 50/50 longer than wide  
 Average stream depth: 7"  
 Gravel moderately loose  
 Dense canopy  
 Average width: 23'  
 ASA = 1231 M<sup>2</sup>

103-90-10580

Name: Charley Creek  
Latitude: 55°57'38"  
Longitude: 133°38'40" 27"  
Geodetic Map No: Craig D-5  
Location: Charley Creek and tributaries including its lakes, west shore of Edna Bay .7 miles south of head.

Catalog No: 103-90-58  
Former Stream No: FRI & FWS No's: 5, 29D, ADF No. 152, ADF stat. WC75  
Work Area: Ketchikan  
Watershed Length: 5.3 miles  
Drainage Area: 4.6 miles  
Water Supply Type: Runoff from forested land with scattered muskeg areas

Trails & Survey Routes: The streambed can be walked at normal water levels and an old logging road extends to a clearcut unit two miles above the mouth from Edna Bay.

Aerial Survey Notes: Only the mouth and a short intertidal section can be observed readily from the air.

Anchorage: Near the stream mouth.

Tide Stage when Surveyed: Low.

RESOURCES

COMMERCIAL FISHERIES (species, escapement, timing, spawning area): Pink, chum, and coho salmon. Numerous rearing coho observed. Good rearing for coho. Peak escapement: 200,000 pink and 100,000 chum, 10/4/47; 3,000 coho, 1959 season. Salmon bones observed. Est. = 5280'x 0.68 x 23 = 7674 m<sup>2</sup> + 15,840'x 0.42 x 49 = 31296 m<sup>2</sup> ASA = 2620 m<sup>2</sup> measured. + 5280'x .05 x 27 = 662 m<sup>2</sup> Total ASA = 38,632 m<sup>2</sup>  
Schooling Areas: At the mouth and in several small pools throughout the stream.

Spawning Areas: Poor spawning intertidally. Spawning improves in the upper stream sections.

SHELLFISH POTENTIAL: Low.

SPORT FISHERIES: Well known for the large population of Dolly Varden which reside in this stream. Numerous Dollies observed at time of survey including one as large as the biggest pink salmon.

LAND USE (history, present, proposed): One logging unit is located approximately two miles from the stream mouth. Additional logging activity is anticipated in the near future.

REHABILITATION POTENTIAL: None now needed. A 2' deep, 12' long channel was blasted out of the bedrock on the fall 1.5 miles upstream on July 2, 1963. This project was highly successful (total cost \$284.34)

SOILS: Generally stable substrate at banks, however, much of the streamside material is soft organic soil and is easily disturbed. There is a good chance of sedimentation occurring from disturbed banks.

GAME RESOURCES (species, use, habitat): A considerable amount of bear signs along the length of the stream.

## PEAK ESCAPEMENT RECORD

103-90-58 Charley Creek

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
9/12/40	16,000	2,000		Good.
1941	47,000	2,000		Excellent.
1942	50,000	1,500	1,000 cohoes	Excellent.
9/16/43	150,000	1,000		Excellent. 10,000 at mouth.
9/20/44	120,000	3,500	650 cohoes	Excellent. 10,000 at mouth.
9/16/45	90,000			Excellent. 10,000 at mouth.
10/13/46	50,000	4,000		Good. None at mouth.
10/4/47	200,000	100,000		Excellent. None at mouth.
9/14/48	93,500 (15 dead)	1,940 (35 dead)	88 cohoes	
10/2/48	10,000	Few.	500 coho	
9/26/49	17,870	55		
9/1/50		90 (2 dead)		
9/21/50	3,540 (973 dead)			
9/24/51	16,000 (110 dead)	100		
9/15/52	4,800 (15 dead)	250+ (10 dead)	Several coho	
9/15/53	25 (6,100 dead)	29		
9/25/54	6,100		Few cohoes	
9/23/55	15,000			Some dead pink. 5,000 above marker.
9/14/56		1,000	100 cohoes	27,000 pinks; 1,000 dogs at mouth.
9/23/56	25,000			Many dead pink. 10,000 plus at mouth.
9/14/57	6,200	1,000		Very poor.
9/4/58	9,500	200		
1959	17,000	5,000	3,000 cohoes	
8/24/60	8,000			

## PEAK ESCAPEMENT RECORD

103-90-58 Charley Creek

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
8/25/61	1,906			
9/3/62	10,500			
8/10/63	3,100			
1964	None seen			
8/24/65	67,000			
9/1/66	70,600			
8/16/67	500			
8/24/68	43,000			
8/28/69	250			
8/26/70	15,100			
8/26/71	31,000			
9/5/72	16,000			
8/8/73	40,500			
8/21/74	40,000			
8/14/75	47,000			
8/28/76	31,000			
8/24/77	20,000			
8/28/78	43,000			
8/17/79	10,700			
8/24/80	55,003			