

USFS
FISHERIES RESOURCE INVENTORY

105-20-10040

map Petersburg B-6

Stream 105-20-04 Paul Creek

Latitude $56^{\circ}22'10''$ Longitude $133^{\circ}58'20''$

03"

59'05"

This stream is located one mile northwest of the Rose marker at the very north end of Port Beauclerc on Kuiu Island.

The stream drains a very flat low topography valley between Port Beauclerc and Petrof Bay.

The intertidal area is approximately .25 mile long and is divided into three branches. The 1" or smaller angular gravel substrates displayed provide excellent spawning habitat, as depicted in Photo #9.



Photo #9: Intertidal area of Stream 105-20-04.

The lower .75 mile of the stream contains good spawning and excellent rearing habitat. The stream has a gentle gradient, 1"-2" gravel substrates, and a very enclosed alder and spruce canopy. There is some minor braiding in places. Photo #10 depicts the "typical" habitat present in the lower section of the stream.



Photo #10: "Typical" habitat .25 mile upstream.

There is a series of inactive beaver dams which are located approximately .75 mile upstream and are no longer intact. The stream meanders for a few hundred yards through an open meadow in this section and has a mud-silt bottom and mud-root banks. There is one active beaver dam which is intact and dams the creek. The stream is quite small above this dam. The large beaver dam is shown in Photo #11.



Photo #11: Beaver dam located .8 mile upstream.

Tributary 01 enters the main stream approximately .4 mile upstream. There is good spawning habitat in the lower .2 mile. There is a heavy canopy and numerous shallow pools which create some very favorable rearing habitat. Above .2 mile the stream gradient becomes moderate and the bottom substrates become cobble or larger.

Coho fry, cutthroat trout and dolly varden adults were observed throughout the system. A few adult pink and chum salmon were observed jumping off the mouth. ADF&G spawning escapement data reveals pink and chum salmon to be the predominant species.

ADF&G spawning escapement data:

<u>Year</u>	<u>Pink</u>	<u>Chum</u>
1972	1000	1100
1973	460	10
1974	--	100
1975	400	--
1976	200	--

Recommendations:

- 1) Beaver dam should be left intact as coho fry were observed above the dam indicating it is not a blockage to upstream migrants. It does provide some good rearing habitat as well as reducing downstream sedimentation.

105-20-10050

PB 5

Latitude $56^{\circ}21'38''$ Longitude $133^{\circ}58'20''$
_{28''} _{59''}

Map: Petersburg B-6

This stream is located .5 mile west of the Rose marker and 2.5 miles north of the Port marker in the north end of Port Beauclerc.

The stream drains moderately high topography located on an isthmus between Port Beauclerc and Petrof Bay.

The intertidal area is approximately 300 yards long and contains good spawning habitat. The stream displays loose 1" diameter gravels with fines that are covered with green filamentous algae (Photo #12).



Photo #12: Intertidal area of Stream PB 5.

The lower .25 mile of the stream contains good spawning habitat. The stream displays mainly 1"-3" diameter gravels with some cobble and has many shallow pools which provide good rearing habitat. Photo #13 depicts the typical habitat present in this section.



Photo #13: "Typical" habitat .15 mile upstream.

Above .25 mile the stream gradient becomes gentle to moderate as the stream enters a steep-sided canyon. There are many large instream blowdowns and evidence of gravel scouring especially in the areas where the stream is constricted. The bottom substrates are predominately bedrock and cobble. There is a 60-foot barrier falls located .5 mile upstream which is a total barrier to fish migration (Photo #14).



Photo #14: 60-foot barrier falls located .5 mile upstream.

A small tributary enters the main stream from the south approximately .25 mile upstream. This tributary has very limited spawning habitat and becomes moderately steep within 250 yards.

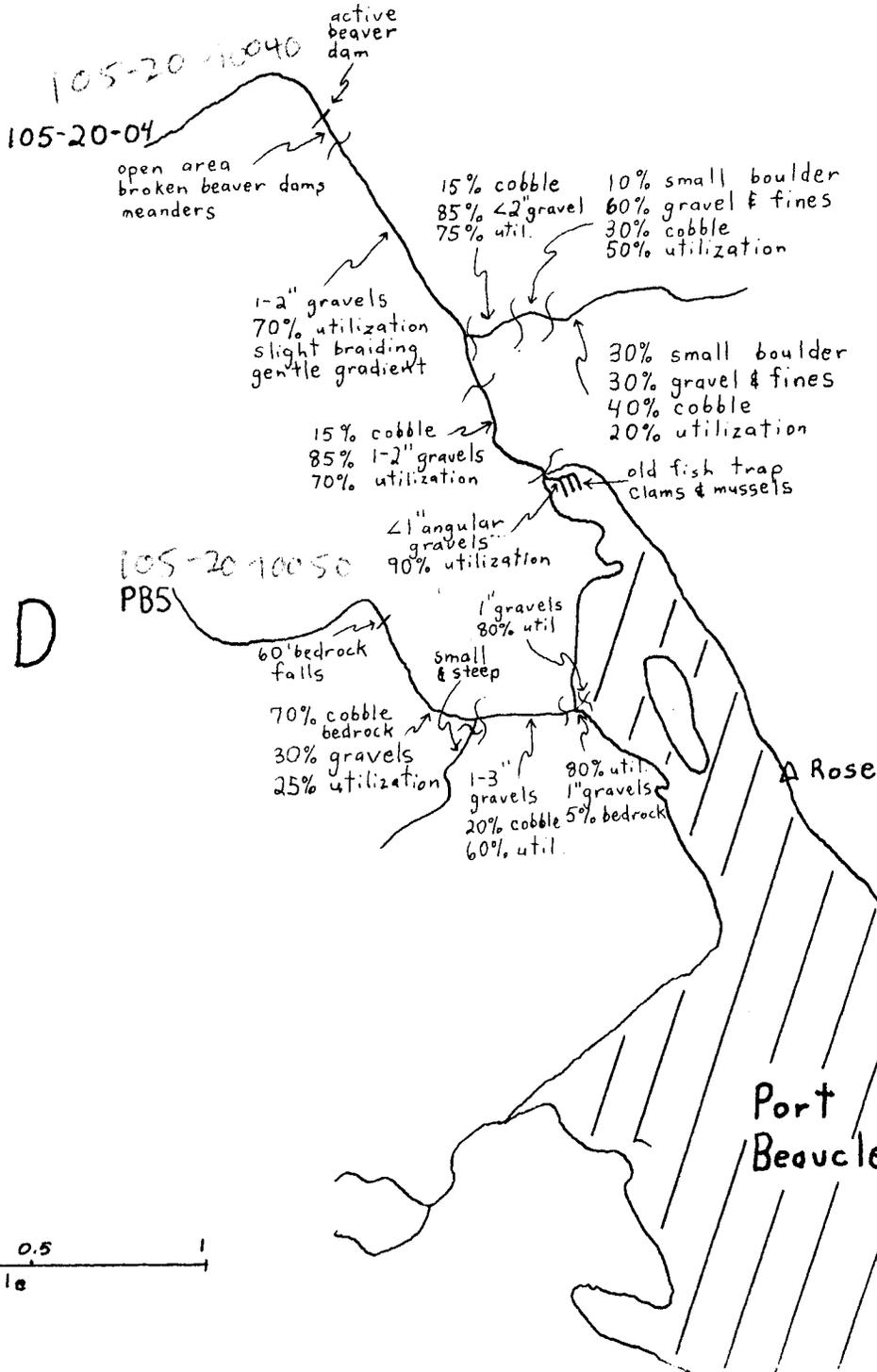
Coho fry and cutthroat trout were observed throughout the system and within 300 yards of the barrier falls. A few adult chum salmon were observed jumping off the mouth.

There is no ADF&G spawning escapement data available for this stream.

Recommendations:

- 1) Stream should be included in ADF&G's stream numbering system as anadromous salmonids are present.

KUIU ISLAND



CHANGING HEADLINE INVENTORY

AREA AND STREAM	TYPE AND DISTANCE OF SURVEY	FISH SPECIES AND MATURITY	STREAM QUALITY			STREAM		VELOCITY		WATER		MAJOR SUBSTRATE	
			Spawning Inter-tidal	Up-stream	Rearing	Gradient	Mean width (ft.)	Mean depth (ft.)	Inter-tidal	Upstream	Color	Temp. °C	Inter-tidal
105-20-04	1 mile foot	coho fry, cut-throat trout, adult dolly varden, adult pink, adult chum	excel-lent	good	excel-lent	gentle	35' channel 10' x 3"	5 cfs		clear	120	1"	1-2" gravels
PB5	3/4 mile foot	coho fry, cut-throat trout, adult chums jumping off mouth	good/excel-lent	good	good	gentle becoming moderate	20' channel 15' x 3"	5 cfs		clear	110	1"	1-3" gravels 20% cobbles
105-20-06	1 mile foot	adult pink and chum and dolly varden, coho fry	excel-lent	good	excel-lent	gentle	80' intertidal 20' above lake	8 cfs		1t. tan	190	1"	1" gravels
PB6	1/4 mile foot	coho fry, trout fry	poor low flow	good Tack's water	excel-lent	flat	6' channel 1' x 1"	<1 cfs		1t. tan	120	1"	1" gravels
105-20-07	1/4 mile foot	coho fry, trout fry	good	fair poor up-stream	fair	gentle/moderate	20' channel 5' x 2"	3 cfs		clear	130	pea-1" gravels & lower cobbles	bedrock cobbles in up

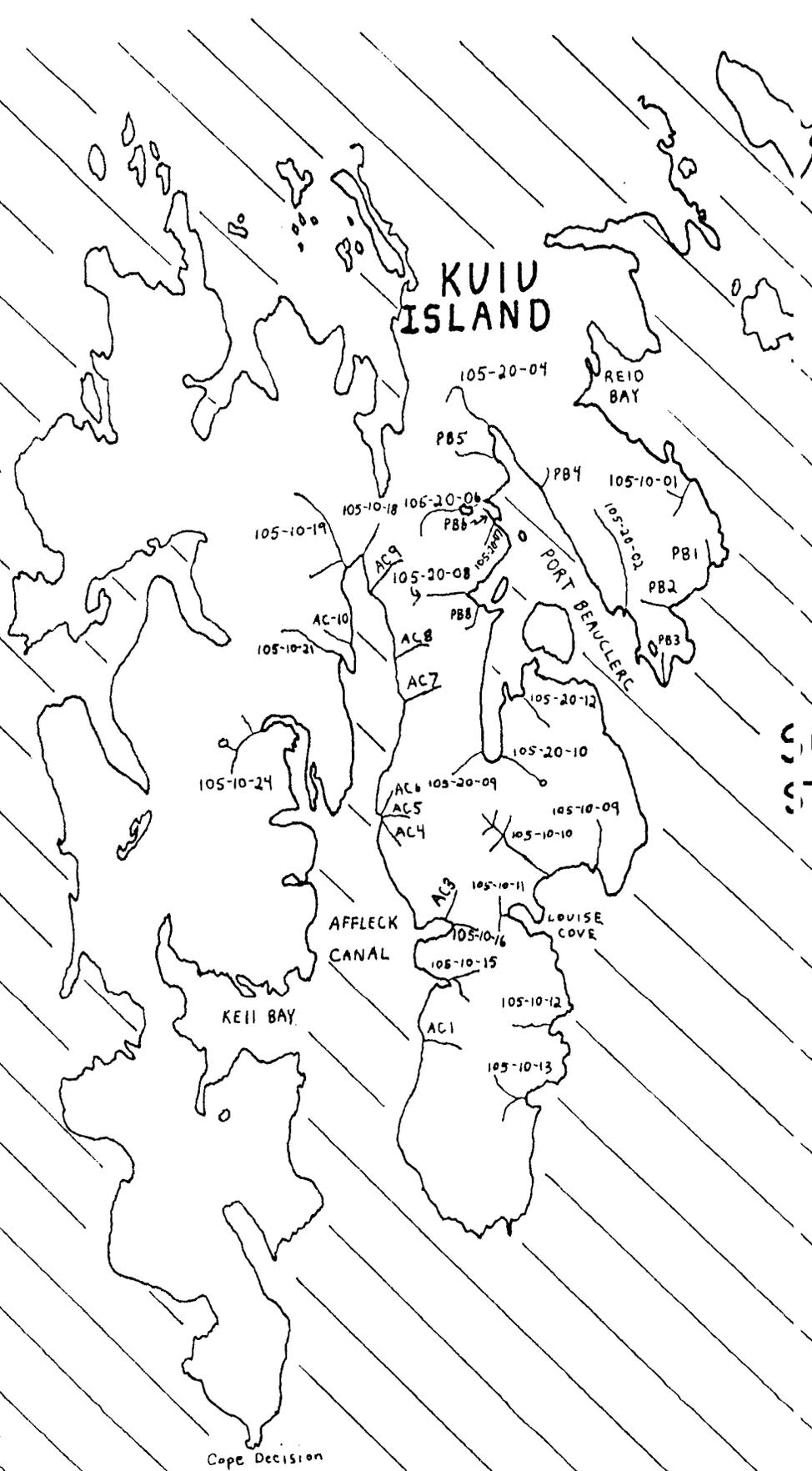
STREAMS OF THE S.E. KUIU STUDY AREA

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FREDERICK SOUND

KUIU ISLAND

SUMNER STRAIT



Cape Decision