7

84-590

State of Alaska
Department of Fish and Game
Public Review Nomination for Waters
Important to Anadromous Species

X Addition X Deletion

Name of Waterbody (if known): 104-20- 10100-0010
Manhattan Lake Creek

Location:

Anadromous Waters Catalog Volume and Number _____

USGS 1:63,360 Quadrangle CRAIG A-4

or 1:250,000 (if 1:63,360 not available) _____

Species	Date(s) Observed	Stage(s) (Spawning, Rearing, Migration)
Sockeye	9/8/83	adults & fry 81 fry caught in 3 hours in 3 minnow trap
Coho	9/8/83	fry
Pink	9/8/83	adults
Sticklebacks	9/8/83	adults in lake

Comments: Please provide any clarifying information. Also, please include a map of the area identifying the stream reach. This can be a copy of the map from the Anadromous Waters Atlas.

SEE EXPANDED RANGE ON OVERLAY. STREAM SURVEY DURING Sept 1983 indicated all of the above species at the areas indicated. Also considerable info on this system is available from ADF&G Sports division, Don Sidelmann in Ketchikan. including that this is a known steelhead trout stream. The ADF and G catalogue has erroneously said that this stream has been logged off. (see back)

Name of Observer (please print) Don Cornelius Habitat Biologist GENE STAGNER

Date: 11/23/83 Signature: Gene Stagner USFS

Address: Pouch 500
Craig, AK 99921

Drafted Jew 2/84

R Reed
CMJ 2/1/84

The area has a severe blowdown patch from salt water to the lake. In addition, the debris jam/blockages no longer exist and passage is easy clear through the lake and upstream at least 1 mile above the lake.

./

POINT STREAM SURVEY

VCU _____ DATE 9/8/83 SURVEYOR Stagner LOCATION North Dale

STREAM NAME OR # 104-20-10 LOCATION ON STREAM Saltwater to Manhattan Lake

SCOURPLAIN 35'-40' FLOOD PLAIN WIDTH same (V-notch

INCISED – GRADIENT 6%

SUBSTRATE %: BEDROCK _____ BOULDER > 20" 40% RUBBLE (6"-20") 40% GRAVEL (¼"-6") 20%

SAND/SILT/OR ORGANIC DEBRIS _____ SPAWNING GRAVEL % Trace element

UPPER BANK SLOPE 60 - 85%

MAX. POOL DEPTH 36" PERCENTAGE mostly Boulder Pools RIFFLE DEPTH 12"-18"

PIECES LOD/100': < 3 _____ 3-10 ✓ > 10 _____

STREAMBANK STABILITY: OLD SLUMPS The whole stream has had slump and blowdown both sid RECENT _____

OTHER INDICATORS Lots of Blowdown

RECOMMENDED MANAGEMENT – Stay out off

GENERAL NOTES

FISH SPECIES, ENHANCEMENT, BARRIERS, WATER LEVEL, STREAMBANK, VEGETATION, HABITAT QUALITY, RELATIVE ANIMAL USAGE (LOW, MED, HIGH), SPECIES.

No fish were observed in entire section. Very homogenouse stream 2 log jams at 1/3 and 1/2 the way through section may have been barriers at one time. 2 fresh redds were seen in the stream just below the lake outlet.
This stream has not been logged contrary to the ADF&G catalogue

POINT STREAM SURVEY

VCU _____ DATE 9/8/83 SURVEYOR Stagner LOCATION North Dall

STREAM NAME OR # Manhattan Lake LOCATION ON STREAM —

SCOURPLAIN _____ FLOOD PLAIN WIDTH _____

INCISED _____ GRADIENT _____

SUBSTRATE %: BEDROCK _____ BOULDER > 20" _____ RUBBLE (6"-20") _____ GRAVEL (¼"-6") _____

SAND/SILT/OR ORGANIC DEBRIS _____ SPAWNING GRAVEL % _____

UPPER BANK SLOPE _____

MAX. POOL DEPTH _____ PERCENTAGE _____ RIFFLE DEPTH _____

PIECES LOD/100': < 3 _____ 3-10 _____ > 10 _____

STREAMBANK STABILITY: OLD SLUMPS _____ RECENT _____

OTHER INDICATORS _____

RECOMMENDED MANAGEMENT _____

GENERAL NOTES

FISH SPECIES, ENHANCEMENT, BARRIERS, WATER LEVEL, STREAMBANK, VEGETATION, HABITAT QUALITY, RELATIVE ANIMAL USAGE (LOW, MED, HIGH), SPECIES.

3 fish traps were run for 3 hours each in the lake baited with salmon eggs.

Sockeye fry were found in the following numbers and sizes.

< 2½" 1

2½" – 3½" 49

3½" – 4½" 32

Several Trout (?) were observed jumping in lake but no samples were obtained

Dolly Varden = 4½" — 1

Sticklebacks. = 7

many of sockeye fry were observed along margins of lake.

Streams on the east side were abundant 1 every 50-100' which made for a lot of upwelling along the edge of the lake. Several fresh depressions were observed in these areas. Could be Sockeye redds.

POINT STREAM SURVEY

VCU _____ DATE 9-8-83 SURVEYOR Kogut LOCATION Manhattan L. Inlet stream

STREAM NAME OR # 104-20-16 Inlet to Man. Lake LOCATION ON STREAM Lake → 1 mile upstream

SCOURPLAIN ave. 50' FLOOD PLAIN WIDTH Probably 75-100', but rarely floods

INCISED 18-24" GRADIENT <1%, very flat

SUBSTRATE %: BEDROCK 5 BOULDER > 20" ____ RUBBLE (6"-20") ____ GRAVEL (¼"-6") 60 (<1" class)

SAND/SILT/OR ORGANIC DEBRIS 35 SPAWNING GRAVEL % 5 (in section I walked)

UPPER BANK SLOPE flat

MAX. POOL DEPTH 48" PERCENTAGE 30-40 RIFFLE DEPTH ave. 6"

PIECES LOD/100': <3 ✓ 3-10 ____ > 10 ____

STREAMBANK STABILITY: OLD SLUMPS — RECENT —

OTHER INDICATORS Old Beaver dams along stream, ≈ 1/2 mile from lake, * water very clear

RECOMMENDED MANAGEMENT No timber along this stream worth harvesting. Old Beaver dams are not a blockage. Not much you can do to or for this stream

GENERAL NOTES

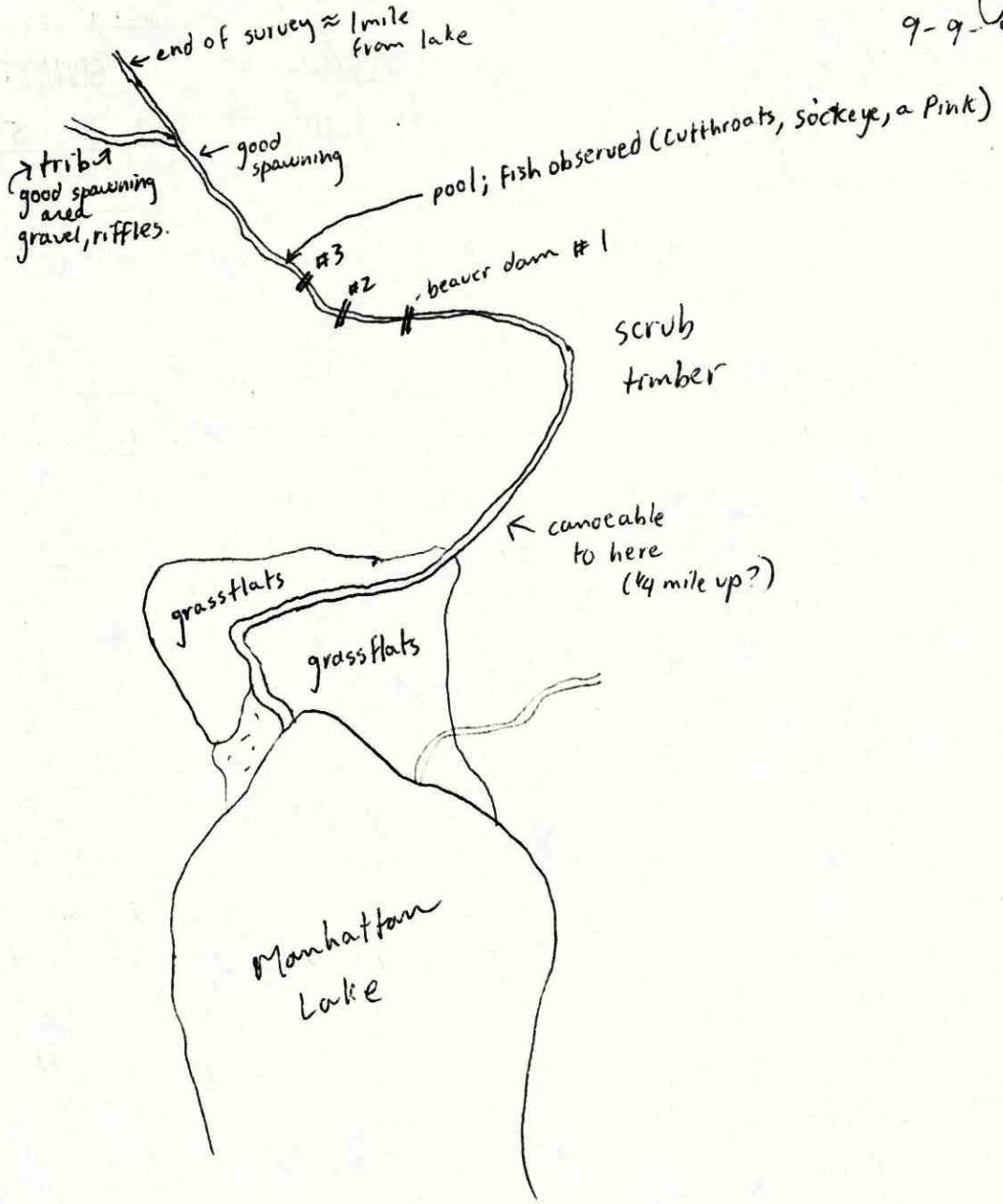
FISH SPECIES, ENHANCEMENT, BARRIERS, WATER LEVEL, STREAMBANK, VEGETATION, HABITAT QUALITY, RELATIVE ANIMAL USAGE (LOW, MED, HIGH), SPECIES.

This is an extremely low gradient, slow moving stream with a substrate of small gravel (marble size + smaller) and sand/silt. It is canoeable from the lake to ≈ 1/4 mile upstream. It flows through grass flats for 1000-1500' upstream, where it enters a scrub timber type. A series of old Beaver dams occurs ≈ 1/2 mile upstream, forming deep pools behind them. Behind the third of these dams. I observed a school of ≈ 10 nice (to 15") Cutthroat trout, plus 2 or 3 Dolly V., 2 red sockeye salmon (8-10lbs) and a Pink salmon, don't ask me to explain that one. These were easily visible due to the very clear water condition.

Coho fry were observed throughout, however overall densities were low considering the large amount of seemingly excellent rearing habitat available. Also some larger (3-4") fish were observed in 2 or 3 larger schools - I was unable to identify these. At ≈ 1 mile upstream the gradient started to increase slightly and a few small spawning riffles w/ good gravel were available. I'm sure there are more good spawning areas upstream. over →

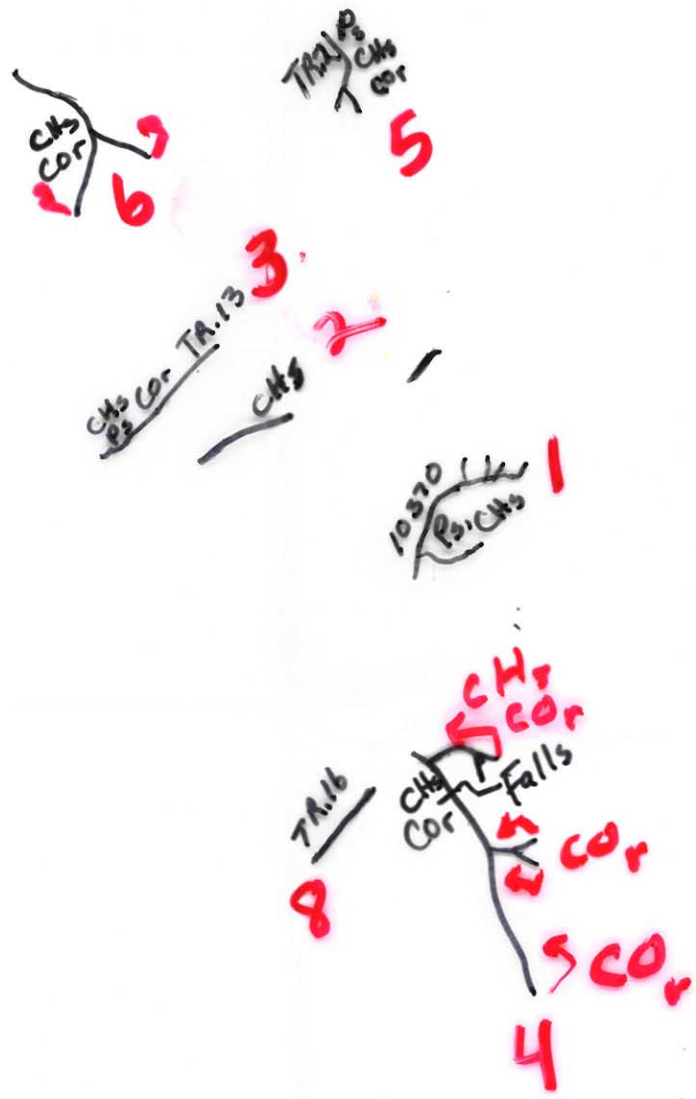
The lower reaches of the stream are interesting - the banks, which are mostly mud + s[illegible], are undercut in sever[illegible] places forming underwat[illegible] "caverns", bizarre subterranean sculptures the likes of which I have not seen before (if memory serves me correctly). Lord only knows what kinds of lunker fish (bass?) ~~lunk~~ lurk within.

Tom Kogut
9-9-83



FINAL

ts document
ish surveys
y not the
fish habitat.


CHs
COr
6
TRAIL
CHs
COr
5
3
TA.13
CHs
COr
CHs
2
1
CHs
COr
Falls
COr
COr
4
TA.16
8

7