



State of Alaska
Department of Fish and Game
Sportfish Division

Nomination Form
Anadromous Waters Catalog



Region Southeastern USGS Quad(s) JUNEAU C-3 **GE**

Anadromous Waters Catalog Number of Waterway 111-50-10070-2004-0010

Name of Waterway Herbert River USGS Name Local Name

Addition Deletion Correction Backup Information

For Office Use

Nomination #	<u>15-611</u>	<u>James J Hasbrouck</u>	<u>8/31/2015</u>
		Fisheries Scientist	Date
Revision Year:	<u>2016</u>	<u>Michelle J. A.</u>	<u>8/31/15</u>
		Habitat Operations Manager	Date
Revision to:	<input checked="" type="checkbox"/> Atlas <input checked="" type="checkbox"/> Catalog	<u>JA</u>	<u>7/11/15</u>
		AWC Project Biologist	Date
Revision Code:	<u>D-2</u>	<u>JA</u>	<u>9/25/15</u>
		GIS Analyst	Date

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous

IMPORTANT: Provide all supporting documentation that this water body is important for the spawning, rearing or migration of anadromous fish, including: number of fish and life stages observed; sampling methods, sampling duration and area sampled; copies of field notes; etc. Attach a copy of a map showing location of mouth and observed upper extent of each species, as well as other information such as: specific stream reaches observed as spawning or rearing habitat; locations, types, and heights of any barriers; etc.

Comments:

The lake on Herbert River (111-50-10070-2004-0010) no longer exists. It is currently a alluvial fan at the base of where the glacier used to be which is visible in bing imagery. My previous nomination extends the Herbert River close to the lake point. See attachment for a map and survey data. Coordinates (Lat,Long): (58.5304,-134.7002)

Remove lake from AWC DB

ref nom # 15-611 15-11

Name of Observer (please print): Benjamin Brewster

Signature: 10.7.168.146 (Web Nomination) Date: 05/06/2015

Agency: _____

Address: 802 East 3rd St.
Douglas, AK 99824

This certifies that in my best professional judgment and belief the above information is evidence that this waterbody should be included in or deleted from the Anadromous Waters Catalog.

Signature of Area Biologist: _____ Date: _____ Revision 11/14

Name of Area Biologist (please print): _____

111-50-10070-2004**ADDITION****Water body name:** Unnamed stream.**Survey date:** 4/24/2015**Water body number:** 111-50-10070-2004**Species & Lifestage:** CO R**Watershed:** Herbert River-Eagle River**MTR:** C038S064E **Quad:** Juneau C-3**Findings:** The upper extent of anadromy is incorrect and a lake no longer exists on Herbert River.**Recommendations:** Please extend the upper extent in the AWC (waypoint 44) and delete anadromous lake point 111-50-10070-2004-0010.

Table 1.-111-50-10070-2004 Survey Data

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
35	58.5321°N	134.6915°W	Goat Creek	MT	0
36	58.5322°N	134.6913°W	Goat Creek	MT	0
37	58.5323°N	134.6909°W	Goat Creek	MT	0
38	58.8322°N	134.6905°W	Goat Creek	MT	0
39	58.5275°N	134.6906°W	Unnamed Tributary	MT	1 DV
40	58.5279°N	134.6905°W	Unammed Tributary	MT	1 DV
44	58.5304°N	134.7002°W	Calm side channel	MT	20 CO (40-70mm)
45	58.5307°N	134.7012°W	Calm side channel	MT	1 CO in hand (40mm)
46	58.5308°N	134.7014°W	Calm side channel	MT	21 CO (40-90mm), 4 DV
46	58.5308°N	134.7014°W	Calm side channel	MT	12 CO (40-100mm)
47	58.5311°N	134.7038°W	Beaver complex 2	MT	17 CO (40-80mm)
48	58.5310°N	134.7041°W	Beaver complex 2	MT	21 CO (40-80mm)
49	58.5309°N	134.7044°W	Beaver complex 2	MT	23 CO (40-85mm)
50	58.5307°N	134.7154°W	Beaver lake	MT	6 CO (40-80mm), 12 DV
51	58.5306°N	134.7149°W	Beaver lake	MT	1 CO (85mm)
52	58.5306°N	134.7146°W	Beaver lake	MT	0
52	58.5306°N	134.7146°W	Beaver lake	MT	2 CO (55-70mm), 1 DV, 1 ST
54	58.5296°N	134.6936°W	Unnamed Tributary	MT	1 DV
57	58.5309°N	134.7046°W	End of beaver complex 2		0

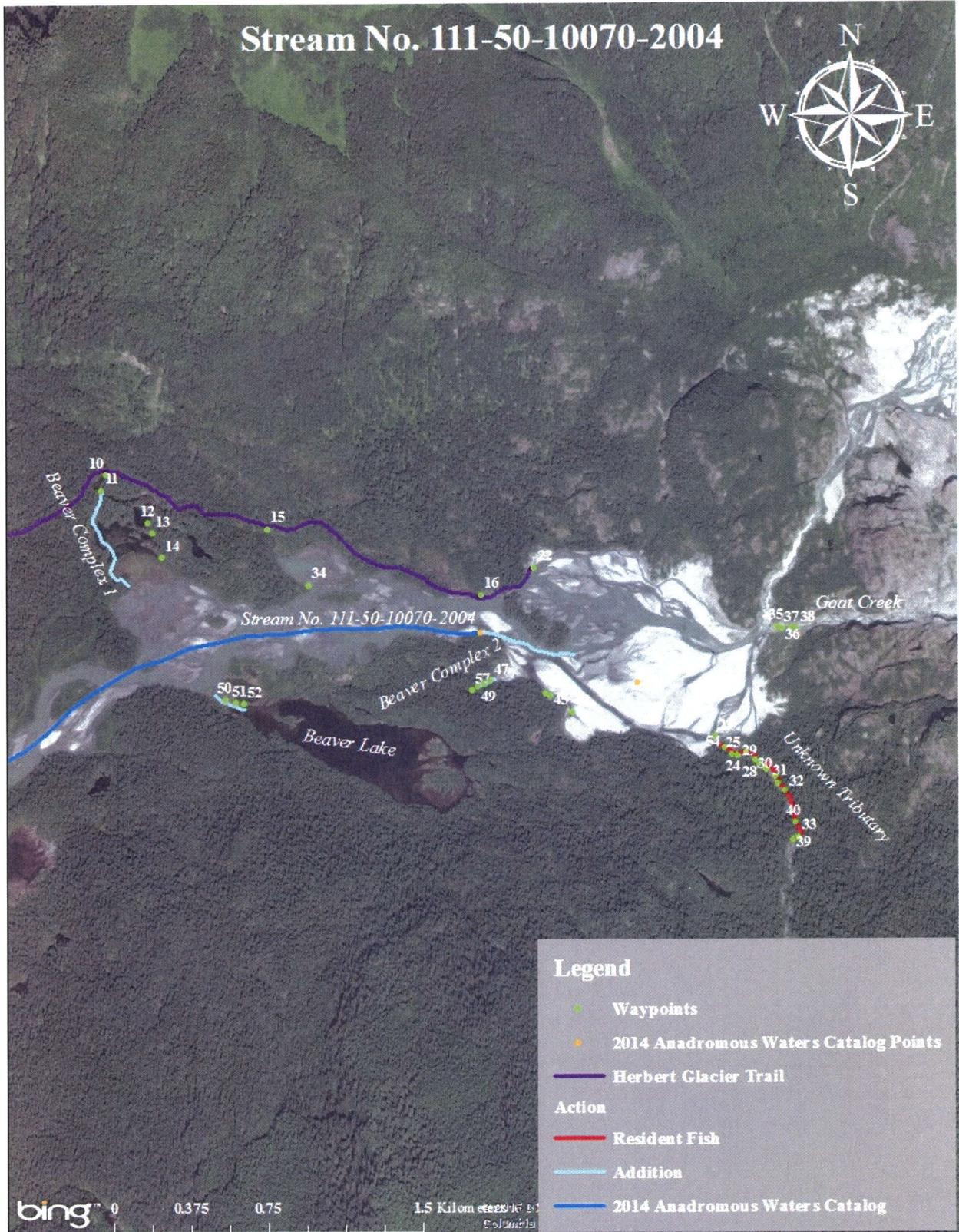


Figure 1.- 111-50-10070-2004 addition map.

11-50 - Inre færd
-poc2 - et fca1
Remove



COp, Pp, Sp

COp, Pp, Sp

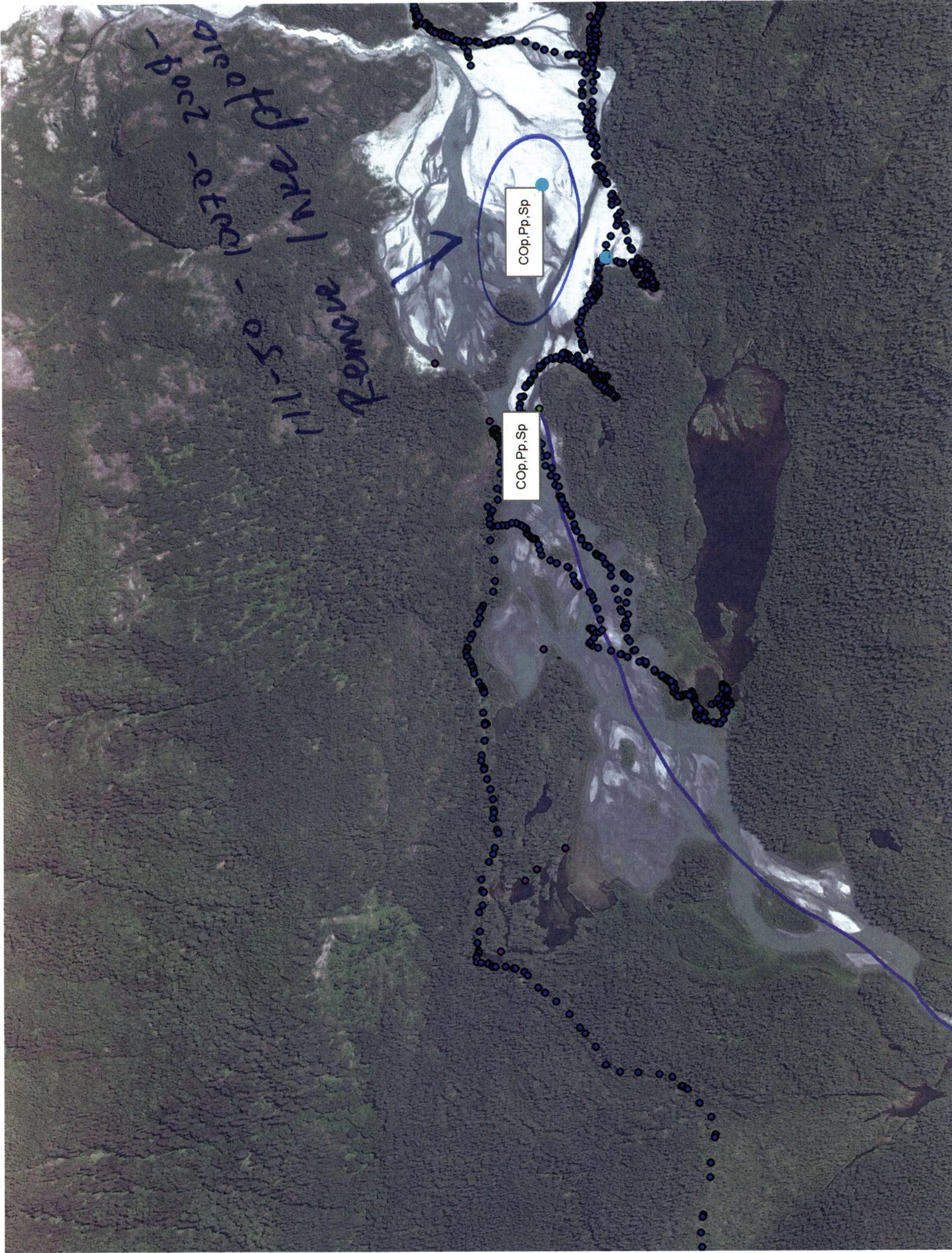
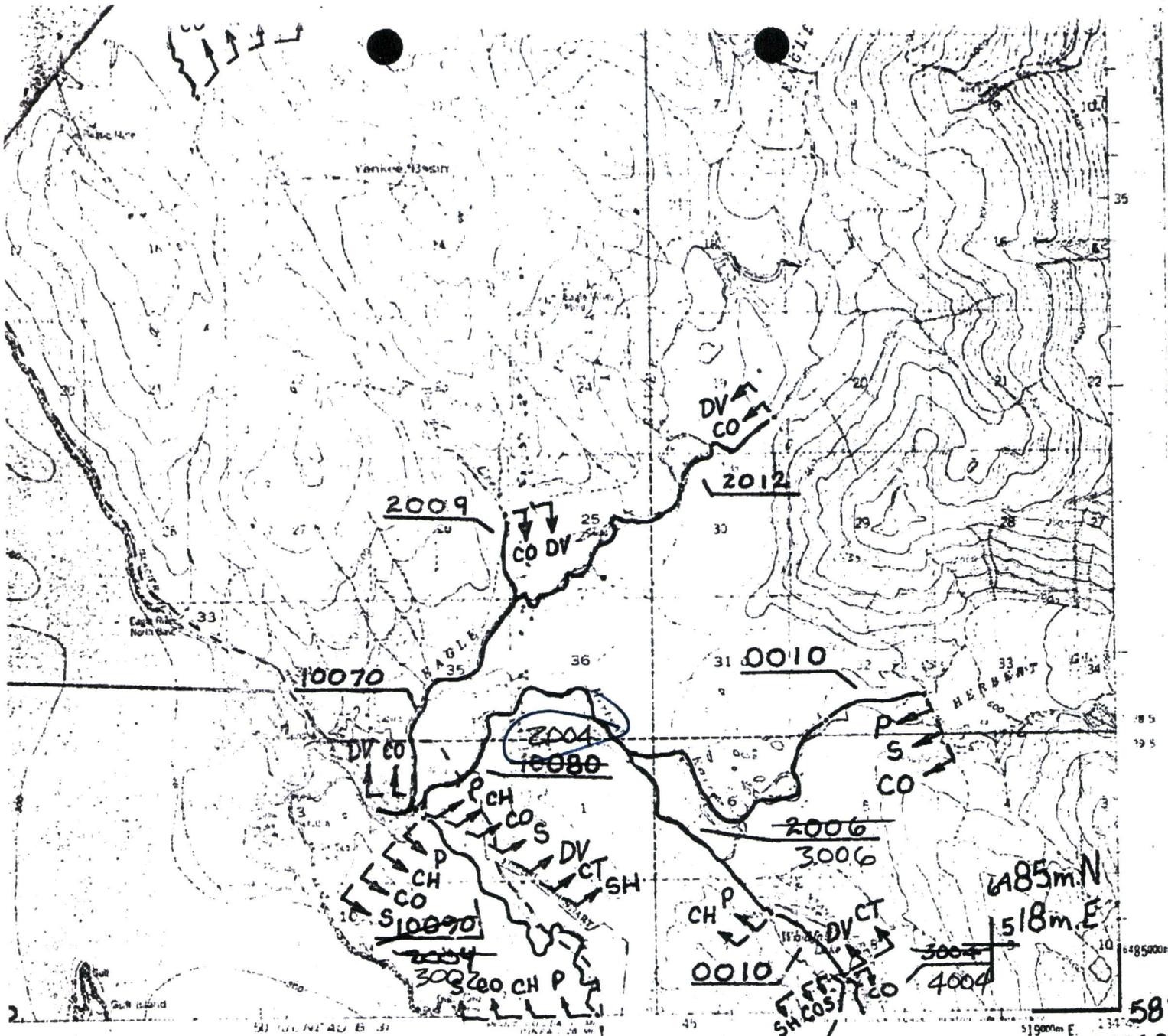




Figure 1. – 40mm coho salmon captured in a calm side channel of Herbert River (waypoint 44)



Figure 2. – Herbert River Lake no longer exists. It is currently a braided alluvial fan.



THESE CONTOURS ARE BASED ON THE DATA FROM THE U.S. GEOLOGICAL SURVEY
 TOPOGRAPHIC MAPS. THE VERTICAL SCALE IS IN METERS. THE HORIZONTAL SCALE IS IN METERS.
 THE SCALE OF THIS MAP IS 1:50,000.

CONTOUR INTERVAL: 100 FEET
 MAP SCALE: 1:50,000
 DEPTH: MEAN LOW WATER
 MEAN HIGH WATER
 MEAN TIDE
 MEAN LOW WATER
 MEAN HIGH WATER

FOR SALE BY U.S. GEOLOGICAL SURVEY
 WASHINGTON, D.C. 20501, DENVER, COLORADO 80225 OR RESTON, VIRGINIA 20192
 FOR MORE INFORMATION, CONTACT THE NATIONAL CENTER FOR GEOGRAPHIC INFORMATION

ROAD CLASSIFICATION
 --- Light duty
 - - - - - Heavy duty

JUNEAU (C-3), ALASKA
 NSR 1:50,000 W13440-15X00
 1951
 (Map Revision)

PROJ. TITLE
ANADROMOUS STREAM CATALOG
 ANADROMOUS WATERS ARE LISTED PURSUANT TO AS 16.05.870 (a)

MAP TITLE



STATE OF ALASKA

MEMORANDUM

State of Alaska

Department of Fish and Game
Division of Habitat

TO: Jackie Timothy
Southeast Regional Supervisor

DATE: May 8, 2015

THRU: Kate Kanouse
Habitat Biologist IV

SUBJECT: 2015 Herbert River AWC
Investigation

FROM: Benjamin Brewster
Habitat Biologist II

PHONE NO: (907) 465-6160

On April 8–9, 2015, Habitat Biologist Gordon Willson-Naranjo and I visited the Herbert River (Stream No. 111-50-10070-2004, CHp, COp,Pp, Sp, CTp, DVp, SHp) to continue investigating anadromous and resident fish presence in Herbert River and several drainages. We traveled by foot and bike and set baited minnow traps in the Herbert River near the bridge, in beaver ponds and in the main stem near the upper extent of anadromy, and in an unnamed tributary on river left near the Herbert Glacier. All minnow traps soaked for 24 hours. See Figure 1 for a map of the investigation.

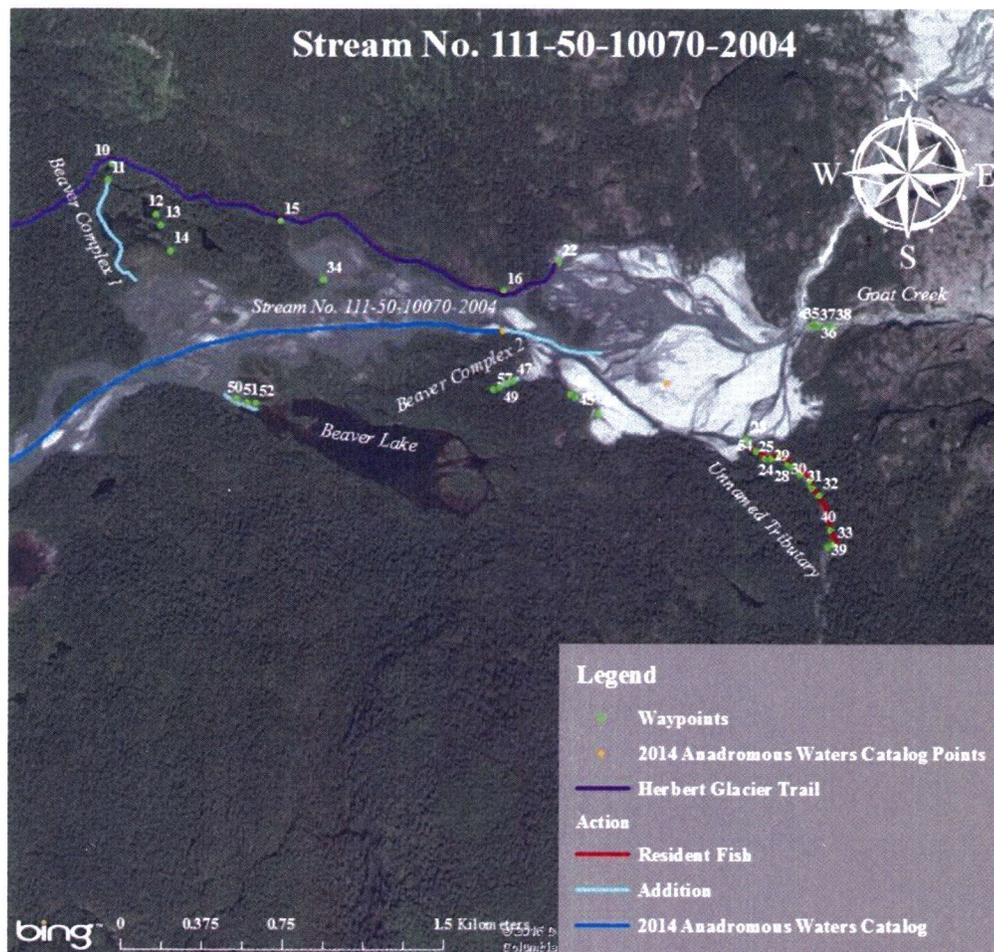


Figure 1.—Herbert River AWC investigation map.

We set five minnow traps above and below the Herbert River bridge and captured 23 coho salmon (CO), 36 Dolly Varden char (DV), 1 sculpin (SC), and 2 threespine stickleback (ST). We set six minnow traps in Beaver Complex 1 and captured 8 CO and 27 DV (Figure 2). We set two minnow traps in a small pond and outlet upstream of Beaver Complex 1 and on river right of Herbert river and captured 17 DV. We set two minnow traps in the mainstem further upstream and captured 4 DV. See Appendix A for sampling results and corresponding waypoints.

We set 10 traps in the Unnamed Tributary on river left and captured 29 DV and 1 rainbow trout (RT) (Figure 3). A barrier to fish passage exists approximately 0.8 km upstream from the mouth (Figure 4). The waterfall is approximately 10-15 ft with a 20% gradient.



Figure 2.—Coho salmon captured in Beaver Complex 1.



Figure 3.—Rainbow trout captured in the Unnamed Tributary to Herbert River.



Figure 4.—Waterfall on Unnamed Tributary.

On April 23–24, 2015, Habitat Biologist Nicole Legere and I returned to continue investigating anadromous fish presence in Herbert River and in beaver ponds on the river left side of Herbert River. We traveled by bike and set traps in the left fork of Herbert River (local name Goat Creek) near the glacier, in Unnamed Tributary on river left near the Herbert Glacier, in a calm side channel of Herbert River, and in Beaver Complex 2 and Beaver Lake. All minnow traps soaked for 24 hours.

We set five minnow traps in Goat Creek (Figure 5) and didn't capture any fish. We set three minnow traps in the Unnamed Tributary and captured three DV—one of which was above the fish passage barrier. We set three minnow traps in a calm side channel of Herbert River and captured 53 CO (40-100mm) and 4 DV (Figure 6).



Figure 5.—Goat Creek, about 10% gradient.



Figure 6.—40mm coho salmon captured in a calm side channel of Herbert River.

We set three minnow traps in Beaver Complex 2 on river left and captured 61 CO (40-85mm). We set four minnow traps in Beaver Lake that has a series of beaver dams separating it from the Herbert River. We captured 9 CO (40-85mm), 13 DV, and 1 ST (Figures 7, 8).



Figure 7.—Beaver Lake upstream of a series of beaver dams.



Figure 8.—Juvenile coho salmon captured in Beaver Lake.

Recommendations

I will submit stream addition nominations to the Anadromous Waters Catalog for CO rearing in the Beaver Complex 1 near the Herbert River trail, Beaver Complex 2 and Beaver Lake on river left, and extend the cataloged portion of Herbert River. I will also submit a nomination to delete the Herbert River upper extent lake point from the Anadromous Waters Catalog, since it no longer exists. These nominations are attached.

We captured resident fish in Unnamed Tributary where Grande Portage Resources, LTD. and Quatterra Resources withdraw water for mineral exploration. The Division of Habitat will issue Grande Portage Resources, LTD. and Quatterra Resources a Fish Habitat Permit for the activity and require the pump intake be screened to protect fish. We will continue to sample fish in Herbert River and its tributaries this year as time allows.

Email cc:

Al Ott, ADF&G Habitat, Fairbanks
 ADF&G Habitat Staff, Douglas
 Dan Teske, ADF&G SF, Juneau
 David Harris, ADF&G CF, Juneau
 Stephanie Sell, ADF&G WC, Juneau
 Kyle Moselle, ANDR, Juneau

Steve Brockmann, USFWS, Juneau
 Randy Vigil, USACE, Juneau
 Linda Speerstra, USACE, Sitka
 Cindy Hartmann Moore, NMFS HCD, Juneau
 Matthew Reece, USFS, Juneau

Appendix A.—Herbert River AWC investigation data (WGS 84).

Trap	Waypoint	Latitude	Longitude	Results	Notes
1	7	58.5243°N	134.7954°W	0	Above bridge
2	8	58.5240°N	134.7958°W	2 CO, 1 DV	Below bridge
3	9	58.5249°N	134.7936°W	0	Above bridge
4	9	58.5249°N	134.7936°W	3 CO, 14 DV	Above bridge
5	9	58.5249°N	134.7936°W	5CO, 7DV, 1 SC	Above bridge
6-10	8	58.5240°N	134.7958°W	13 CO, 14DV, 2 ST	Below bridge
11	10	58.5358°N	134.7206°W	10 DV	Beaver Complex 1
12	11	58.5354°N	134.7208°W	1 DV	Beaver Complex 1
13	11	58.5354°N	134.7208°W	3 CO, 5 DV	Beaver Complex 1
14	12	58.5347°N	134.7188°W	1 DV	Beaver Complex 1
15	13	58.5345°N	134.7185°W	0	Beaver Complex 1
16	14	58.5339°N	134.7954°W	5 CO, 10 DV	Beaver Complex 1
17	15	58.5346°N	134.7136°W	16 DV	In pond
18	34	58.5333°N	134.7115°W	1 DV	Pond outlet
19	16	58.5330°N	134.7042°W	4 DV	Mainstem
20	22	58.5337°N	134.7019°W	0	Mainstem
21	23	58.5298°N	134.6940°W	24 DV	Unnamed Tributary mouth
22	24	58.5294°N	134.6933°W	1 DV	Unnamed Tributary
23	25	58.5294°N	134.6930°W	2 DV	Unnamed Tributary
24	27	58.5295°N	134.6927°W	0	Unnamed Tributary
25	27	58.5295°N	134.6927°W	1 RT	Unnamed Tributary
26	28	58.5293°N	134.6923°W	0	Unnamed Tributary
27	29	58.5292°N	134.6921°W	0	Unnamed Tributary
28	26	58.5291°N	134.6918°W	1 DV	Unnamed Tributary
29	30	58.5289°N	134.6914°W	0	Unnamed Tributary
30	31	58.5288°N	134.6913°W	0	Unnamed Tributary
31	32	58.5286°N	134.6910°W	1 DV	Unnamed Tributary
	33	58.5279°N	134.6905°W		Unnamed Tributary Barrier
32	35	58.5321°N	134.6915°W	0	Goat Creek
33-34	36	58.5322°N	134.6913°W	0	Goat Creek
35	37	58.5323°N	134.6909°W	0	Goat Creek
36	38	58.8322°N	134.6905°W	0	Goat Creek
37	39	58.5275°N	134.6906°W	1 DV	Unnamed Tributary
38	40	58.5279°N	134.6905°W	1 DV	Unammed Tributary
39	44	58.5304°N	134.7002°W	20 CO (40-70mm)	Calm side channel
	45	58.5307°N	134.7012°W	1 CO in hand (40mm)	Calm side channel
40	46	58.5308°N	134.7014°W	21 CO (40-90mm), 4 DV	Calm side channel
41	46	58.5308°N	134.7014°W	12 CO (40-100mm)	Calm side channel
42	47	58.5311°N	134.7038°W	17 CO (40-80mm)	Beaver Complex 2
43	48	58.5310°N	134.7041°W	21 CO (40-80mm)	Beaver Complex 2
44	49	58.5309°N	134.7044°W	23 CO (40-85mm)	Beaver Complex 2
45	50	58.5307°N	134.7154°W	6 CO (40-80mm), 12 DV	Beaver Lake
46	51	58.5306°N	134.7149°W	1 CO (85mm)	Beaver Lake
47	52	58.5306°N	134.7146°W	0	Beaver Lake
48	52	58.5306°N	134.7146°W	2 CO (55-70mm), 1 DV, 1 ST	Beaver Lake
49	54	58.5296°N	134.6936°W	1 DV	Unnamed Tributary
	57	58.5309°N	134.7046°W	0	End of beaver complex 2