State of Alaska
Department of Fish and Game
Division of Sport Fish

Nomination Form
Anadromous Waters Catalog

Region: Southeast

USGS Quad(s): Craig A-3

AWC Number of Water Body: 103-40-10510

Name of Water body: Dunbar Inlet Unnamed Stream 4

☐ USGS Name ☐ Local Name

☒ Addition ☐ Deletion ☐ Correction ☐ Backup Information

For Office Use

Nomination #: 150055

Revision Year: 2016

Revision to: Atlas ____ Catalog ____ Both ✓

Revision Code: a-2

James J Hasbrouck — Fisheries Scientist — Date 5/8/2015

Habitat Operations Manager — Date 5/8/15

AWC Project Biologist — Date 4 May 15

GIS Analyst — Date 5/13/15

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Coho salmon (3)	July 9-10, 2014		X	X	☒
Dolly Varden	July 9-10, 2014			X	☐
					☐
					☐
					☐

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

See supplemental information attached. This package was prepared by Cathy Needham and Melanie Kadake. For questions or more information contact Ms. Kadake at 907-285-2666 or mjkadake13@gmail.com or Ms. Needham at 907-723-4436 or cathy@kaienvironmental.com

Add new creek w/ coho salmon rearing

Name of Observer (please print): Tony Sanderson

Signature: Tony Sanderson

Agency: Hydaburg Cooperative Association

Address: P.O. Box 349
Hydaburg, AK 99922

Date: 12 Sept

ALASKA DEPT. OF FISH & GAME
DEC 11 2014

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 _____

Name of Area Biologist (please print):

Revision 11/13

Dunbar Inlet
Unnamed Stream 4

Reach 2

Key to symbols

Species

- Dolly Varden
- Cutthroat trout
- Rainbow trout
- Coho salmon

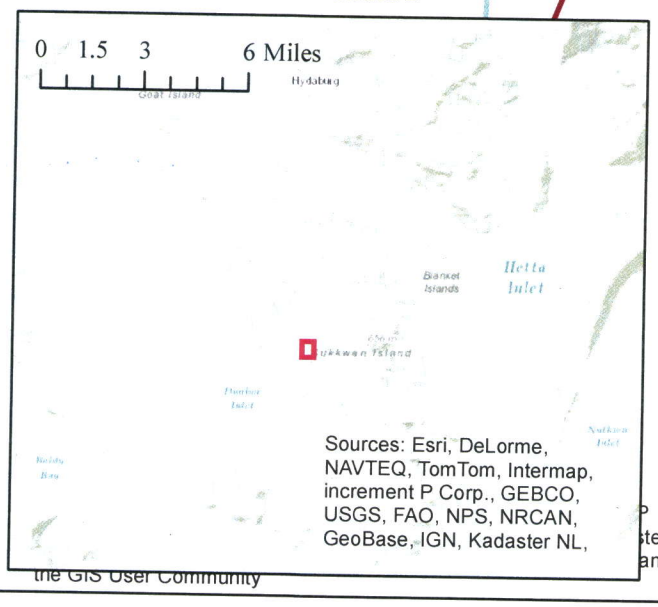
Other features

- Beaver dam
- Waterfall
- Anadromous waters catalog
- Previously mapped streams

Reach 1

Reach 3

Reach 2



0 0.0225 0.045 0.09 Miles

N

the GIS User Community

ADF&G permit no. SF2014-154

Summary report of fish collection activity.

The area biologist was contacted on: 6/9/14 at 10:35 a.m.

Location ID (optional)	Latitude	Longitude	Datum	Coordinate determination method	Name of water body	Date	Observer name (first name, middle initial, last name)	Fish collection method	Species	Life stage	Length (mm) No estimates/ranges	Disposition (1)
80	55.09010	-132.80718	WGS84	GPS	Dunbar Inlet	6/26/2014	Tony Sanderson	Minnow Trap	coho salmon	juvenile	80	measured and released
82	55.09016	-132.80602	WGS84	GPS	Dunbar Inlet	6/26/2014	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	82	measured and released
82	55.09016	-132.80602	WGS84	GPS	Dunbar Inlet	6/26/2014	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	82	measured and released
85	55.08956	-132.80432	WGS84	GPS	Dunbar Inlet	6/26/2014	Tony Sanderson	Minnow Trap	rainbow trout	juvenile	225	measured and released
85	55.08956	-132.80432	WGS84	GPS	Dunbar Inlet	6/26/2014	Tony Sanderson	Minnow Trap	rainbow trout	juvenile	75	measured and released
85	55.08956	-132.80432	WGS84	GPS	Dunbar Inlet	6/26/2014	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	72	measured and released
85	55.08956	-132.80432	WGS84	GPS	Dunbar Inlet	6/26/2014	Tony Sanderson	Minnow Trap	rainbow trout	juvenile	85	measured and released
85	55.08956	-132.80432	WGS84	GPS	Dunbar Inlet	6/26/2014	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	95	measured and released
85	55.08956	-132.80432	WGS84	GPS	Dunbar Inlet	6/26/2014	Tony Sanderson	Minnow Trap	coho salmon	juvenile	50	measured and released
85	55.08956	-132.80432	WGS84	GPS	Dunbar Inlet	6/26/2014	Tony Sanderson	Minnow Trap	coho salmon	juvenile	85	measured and released
85	55.08956	-132.80432	WGS84	GPS	Dunbar Inlet	6/26/2014	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	85	measured and released
245	55.08929	-132.79981	WGS84	GPS	Dunbar Inlet	7/10/2014	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	68	measured and released
245	55.08929	-132.79981	WGS84	GPS	Dunbar Inlet	7/10/2014	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	91	measured and released
245	55.08929	-132.79981	WGS84	GPS	Dunbar Inlet	7/10/2014	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	76	measured and released
249	55.08834	-132.79908	WGS84	GPS	Dunbar Inlet	7/10/2014	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	80	measured and released
249	55.08834	-132.79908	WGS84	GPS	Dunbar Inlet	7/10/2014	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	78	measured and released
249	55.08834	-132.79908	WGS84	GPS	Dunbar Inlet	7/10/2014	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	94	measured and released
249	55.08834	-132.79908	WGS84	GPS	Dunbar Inlet	7/10/2014	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	76	measured and released
249	55.08834	-132.79908	WGS84	GPS	Dunbar Inlet	7/10/2014	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	74	measured and released
249	55.08834	-132.79908	WGS84	GPS	Dunbar Inlet	7/10/2014	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	74	measured and released
261	55.09097	-132.79725	WGS84	GPS	Dunbar Inlet	7/10/2014	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	51	measured and released
261	55.09097	-132.79725	WGS84	GPS	Dunbar Inlet	7/10/2014	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	51	measured and released
261	55.09097	-132.79725	WGS84	GPS	Dunbar Inlet	7/10/2014	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	60	measured and released
261	55.09097	-132.79725	WGS84	GPS	Dunbar Inlet	7/10/2014	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	45	measured and released
261	55.09097	-132.79725	WGS84	GPS	Dunbar Inlet	7/10/2014	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	63	measured and released
261	55.09097	-132.79725	WGS84	GPS	Dunbar Inlet	7/10/2014	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	75	measured and released
261	55.09097	-132.79725	WGS84	GPS	Dunbar Inlet	7/10/2014	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	50	measured and released
261	55.09097	-132.79725	WGS84	GPS	Dunbar Inlet	7/10/2014	Tony Sanderson	Minnow Trap	coho salmon	juvenile	86	measured and released

261	55.09097	-132.79725	WGS84	GPS	Dunbar Inlet	7/10/2014	Tony Sanderson	Minnow Trap	coho salmon	juvenile	55	measured and released
261	55.09097	-132.79725	WGS84	GPS	Dunbar Inlet	7/10/2014	Tony Sanderson	Minnow Trap	coho salmon	juvenile	50	measured and released
261	55.09097	-132.79725	WGS84	GPS	Dunbar Inlet	7/10/2014	Tony Sanderson	Minnow Trap	coho salmon	juvenile	47	measured and released
261	55.09097	-132.79725	WGS84	GPS	Dunbar Inlet	7/10/2014	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	56	measured and released
261	55.09097	-132.79725	WGS84	GPS	Dunbar Inlet	7/10/2014	Tony Sanderson	Minnow Trap	rainbow trout	juvenile	46	measured and released
261	55.09097	-132.79725	WGS84	GPS	Dunbar Inlet	7/10/2014	Tony Sanderson	Minnow Trap	rainbow trout	juvenile	45	measured and released

FISH ESCAPEMENT COUNTS

Hydaburg Cooperative Assocition Stream Habitat Surveys

Fish Habitat permit: SF2014-154 (various stream)

Date of Survey	Watershed	Stream/Tributary	Reach	Survey End GPS Point
8-28-14	Dunbar	Stream 4		

Index Area	Pink Salmon		Chum Salmon		Coho Salmon		Sockeye Salmon		Other	
	Live	Carcass	Live	Carcass	Live	Carcass	Live	Carcass	Live	Carcass
Mount	0	0	0	0	0	0	0	0		
Intertidal	0	0	0	0	0	0	0	0		
In Stream	0	0	0	0	0	0	0	0		
Riparian	0	0	0	0	0	0	0	0		
TOTAL NUMBERS	0	0	0	0	0	0	0	0		
Upper GPS Point										

Observers	Wind	Weather	Water	Visibility	Bottom	Additional Comments
Kurt E Tony S	SE	overcast				

Supplemental information for Dunbar Inlet Stream 4

One baited minnow trap was soaked for about an hour in Stream 4 in Dunbar Inlet on July 9th, 2014. Stream is not listed in the Anadromous Waters Catalog. This current nomination is to nominate the presence and rearing of coho salmon. It is also noted Dolly Varden were present in traps set in the stream. An ADFG fish trapping permit datasheet is attached to this nomination packet for further details on fish trapping efforts. Adult foot counts were performed on August 28th, 2014 and no adult fish were observed (see map for reach locations; adult foot count data sheets are attached).

Stream mapping and survey data was collected by the Hydaburg Cooperative Association Stream Survey crew for Stream 4 on July 9th, 2014. Data was taken on one reach (reach number in the tables correspond to a master dataset; see attached figure for locations). The stream survey data are in the following table:

	Reach 1
Average stream gradient	5.7
Average bankfull width	1.3
Average channel bed width	2.3
Average incision depth	0.31
Bank composition	Organic
Dominant substrate	Sand/Silt
Sub-dominate substrate	Very Fine gravel and fine gravel
Large wood count	14
Key wood count	4
Macro-pool count	6

Reach 1 was classified as PAO (micro placid flow channel). At the top of Reach 1, the survey crew documented a waterfall at waypoint 242, with a barrier height of 1 meters, a pool depth of 0.4 meters and a 90 degree gradient. No anadromous fish were trapped above Reach 1, however Dolly Varden were found in traps. The following pictures show the barriers documented on Stream 4.

Photo 1. Waterfall documented in Reach 1 of Stream 4 in Dunbar Inlet.

Johnson, J D (DFG)

From: Cathy Needham <cathy@kaienvironmental.com>
Sent: Friday, May 01, 2015 11:26 AM
To: Johnson, J D (DFG)
Cc: Melanie Kadake; Christine Woll
Subject: RE: Dunbar Inlet Unnamed Stream 4

Hi J,

I've had a chance to work with Melanie and look at the hard copy datasheets. As I suspected, there were some data transfer errors in the electronic files. We are working to fix them.

In the meantime, from the field data sheets, there were two traps set in Dunbar Inlet unnamed stream #4. They were GPS locations 242 and 243.

- Trap 242 was set below the falls, which was located at: 55.09597; -132.80971
- Trap 243 was set above the falls, which is located at 55.09631; -132.80975

There were no fish in trap 243. There were 3 coho's and 2 Dolly Varden in trap 242.

I would be happy to send the updated excel datasheet when it is fixed, but it will be a couple of weeks because we are going to make sure we didn't have a problem with any of the other trap points.

Thanks! Cathy

From: Johnson, J D (DFG) [mailto:j.johnson@alaska.gov]
Sent: Thursday, April 30, 2015 8:41 AM
To: Cathy Needham
Subject: RE: Dunbar Inlet Unnamed Stream 4

Cathy

Wpts 80,82, & 85 plot onto AWC water body # 103-40-10540, which was nominated separately
Wpt 74 (15-052) plots onto an location south of 103-40-10540, which has been numbered as 103-40-10544
The unknown location appears to be located at the head of Dunbar Inlet between AWC water bodies 103-40-10500 & 103-40-10520
If you look at nom & map for 103-40-10500 you'll see unk location w/big black X is located to right of 103-40-10500
So data you provided is confusing.

J. Johnson
AWC Project Biologist
907-267-2337

From: Cathy Needham [mailto:cathy@kaienvironmental.com]
Sent: Thursday, April 30, 2015 8:13 AM
To: Johnson, J D (DFG)
Cc: Melanie Kadake; Christine Woll
Subject: Dunbar Inlet Unnamed Stream 4

J,

Attached is a corrected fish trapping sheet for Dunbar Inlet Unnamed Stream 4. It shows juvenile coho in traps 74, 80 and 85.

I am attaching the map that we submitted with the AWC package, and cc'ing Christine Woll who created the map. I am unsure why the trap locations don't show on the map, only the water fall feature. I am hoping Christine can correct the map, so we can see where the traps are located. Alternatively, the lat and long coordinates for the fish traps on the corrected fish trapping sheet.

Sorry for the confusion.

Cheers, Cathy

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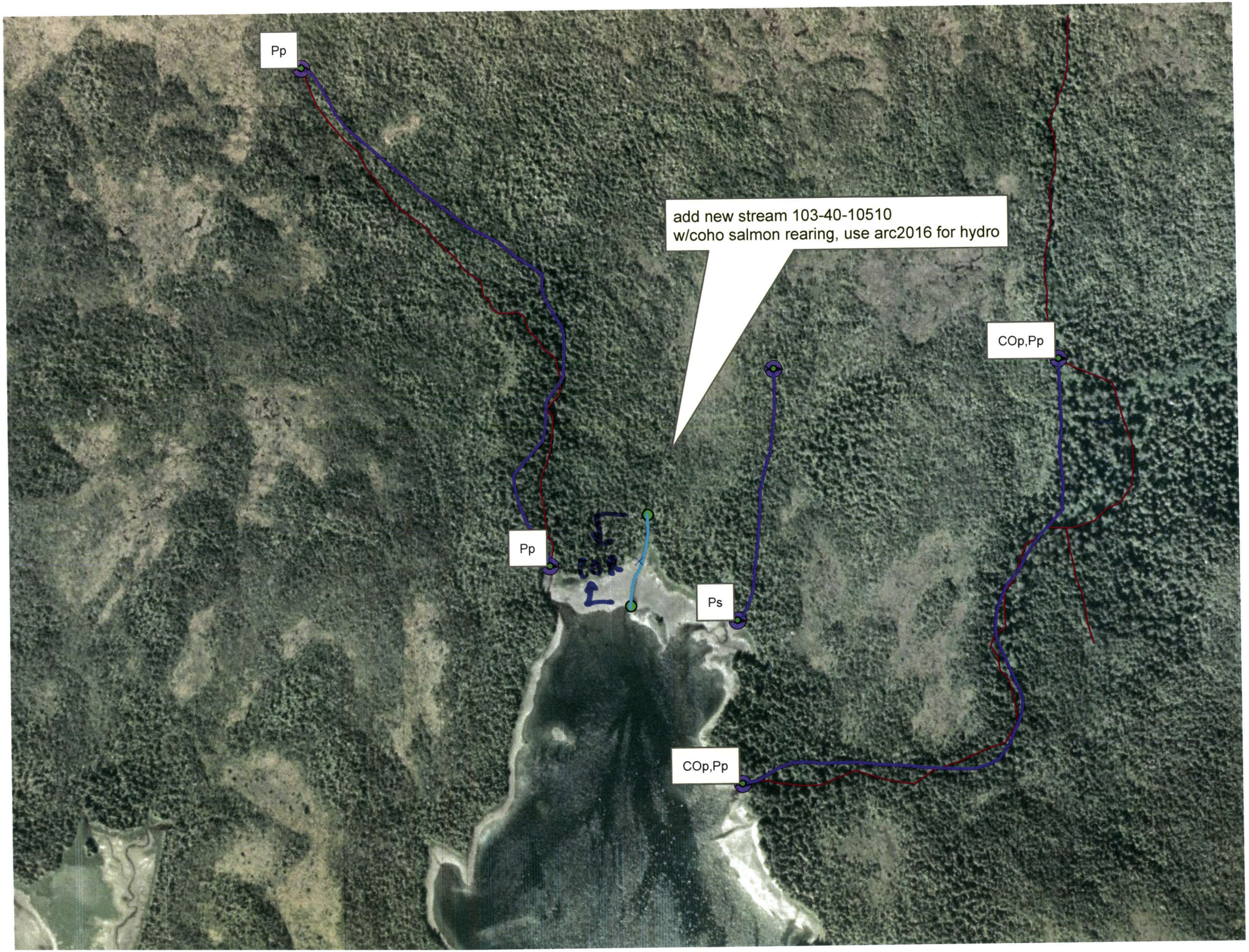
Pp
add new stream 103-40-10510
w/coho salmon rearing, use arc2016 for hydro
COp,Pp
Pp
Ps
COp,Pp