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

Nomination Form
Anadromous Waters Catalog

Region: Southwest

USGS Quad(s): Afognak A-2

Anadromous Waters Catalog Number of Waterway: 252-33-10010-2004

Name of Waterway: Lilly Creek

☐ USGS Name ☑ Local Name

☑ Addition ☐ Deletion ☐ Correction ☐ Backup Information

For Office Use

Nomination #	120230		9/4/12
		Fisheries Scientist	Date
Revision Year:	2013		9/4/12
Revision to: Atlas ____ Catalog ____		Habitat Operations Manager	Date
Both X			8 July 12
		AWC Project Biologist	Date
Revision Code:	B-2		9/12/12
		Cartographer	Date

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Coho Salmon (45)	5/24/2012		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 Add coho Salmon Rearing to stream

During joint ANC sampling, I used an electrofisher in the area of proposed harvest activities to document the presence of anadromous fish (Figures 1 and 2). Five coho were captured by the electrofisher and 40 coho were observed in pool habitat. See the May 23-25 Trip Report.

Ref memo 12-231
12-257

Name of Observer (please print): Will Frost, Habitat Biologist

Signature: _____ Date: 6/4/2012

Agency: ADF&G, Division of Habitat

Address: 333 Raspberry Road
Anchorage, AK 99518

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 05/08

Name of Area Biologist (please print):

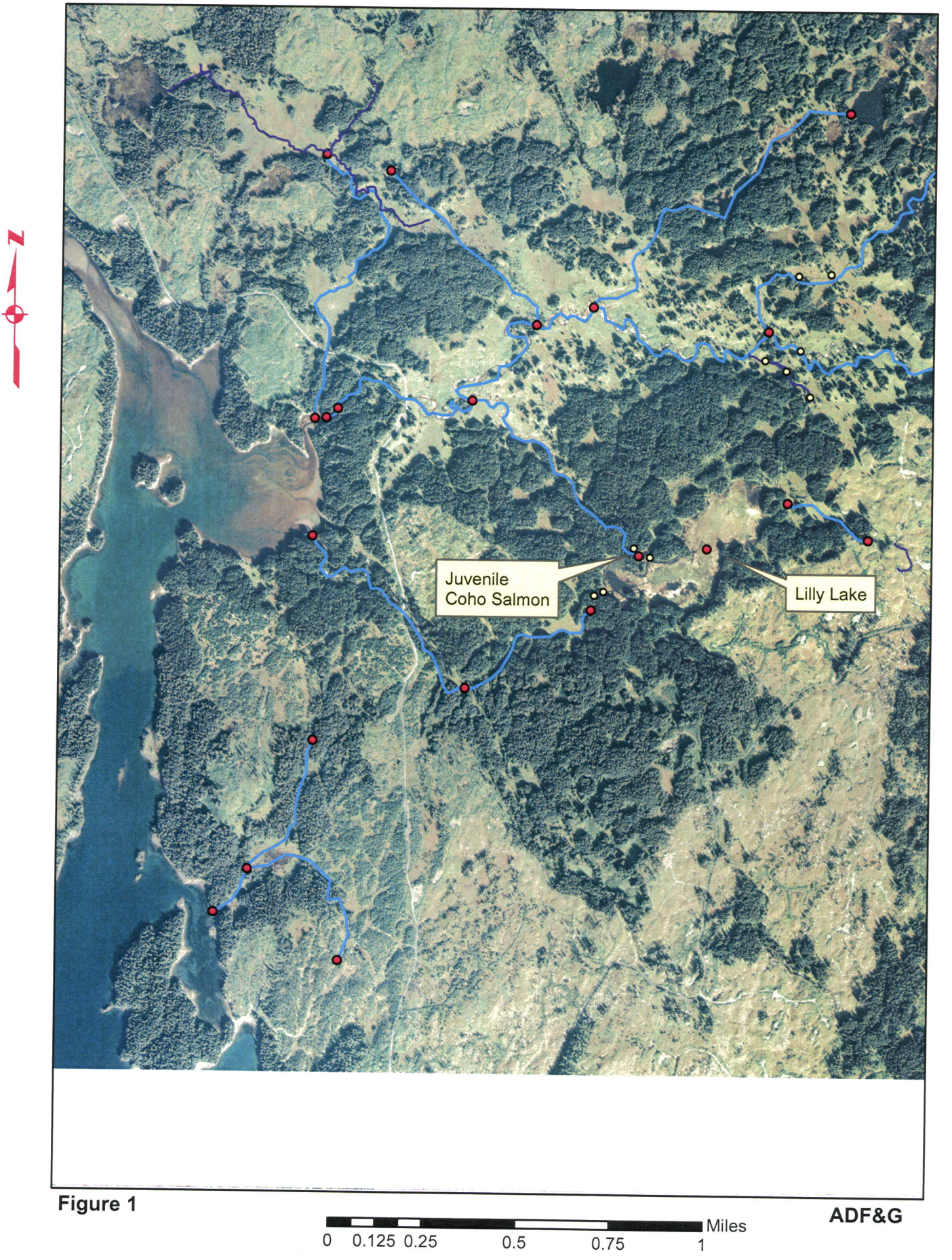

Figure 1

ADF&G

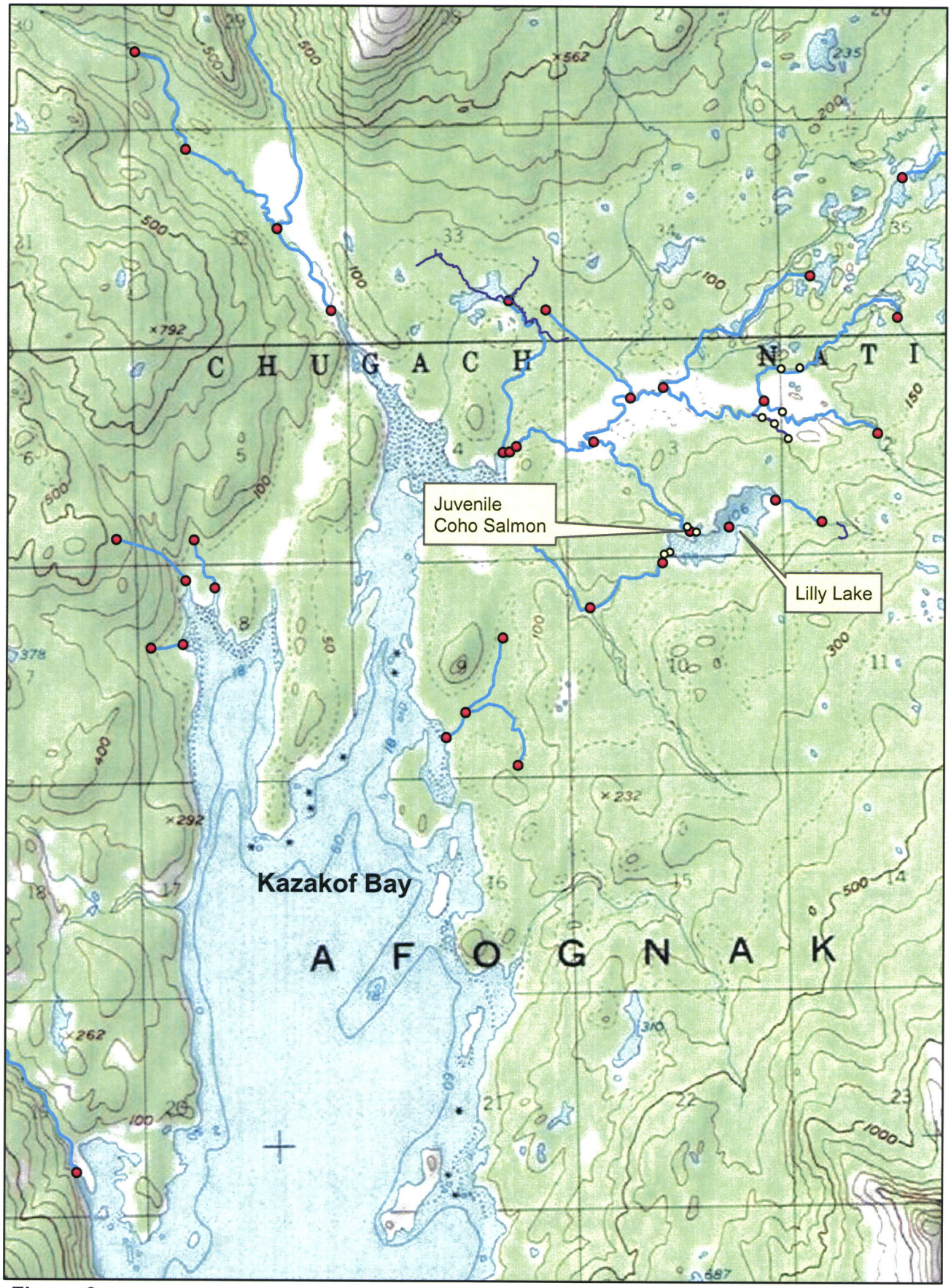

Figure 2

ADF&G

0 0.2 0.4 0.8 1.2 1.6 Miles

STATE OF ALASKA

SEAN PARNELL, Governor

DEPARTMENT OF FISH AND GAME

DIVISION OF HABITAT

333 RASPBERRY RD.
ANCHORAGE, ALASKA 99518
PHONE: (907) 267-2342
FAX: (907) 267-2499

MEMORANDUM

TO: Michael Daigneault
Anchorage Area
Regional Supervisor

FROM: Will Frost WF
Habitat Biologist

DATE: June 6, 2012

SUBJECT: AKSSF AWC Survey: Afognak Island

On May 23-25, 2012, I joined Keith Coulter, Koncor, Greg Harris, Afognak Native Corporation, and Raye Ann Neustel, Alaska Department of Fish and Game on Afognak Island for the purpose of sampling waters in the area of proposed harvest activities to document the presence of anadromous fish. The information gathered will be used to submit official nominations for inclusion in the Anadromous Waters Catalog (AWC) and its companion Atlas. Inclusion in the AWC will conserve salmon habitat by providing the 66-foot riparian retention area protection required under the Forest Resources and Practices Act (FRPA). A water body listed in the AWC is also afforded additional protection under State law at AS 16.05.871. The weather conditions were clear and mild becoming cloudy with rain.

On May 23, 2012, Mr. Coulter, Ms. Neustel and I drove from the Evergreen Camp to an unnamed tributary to Stream No. 252-31-10020 that flows into Izhut Bay. At about 2:00 p.m., we used an electrofisher to sample the unnamed stream adjacent to harvest Units N22, N23, and N24. The unnamed stream is located at Section 23, Township 22 South, Range 19 West, Seward Meridian (Figure 1). We began at the 200 Road and worked upstream about 750 linear feet to an 8-foot high barrier (Figure 2). The barrier did not have sufficient pool depth to allow adult salmon to pass the barrier. Sampling below the barrier captured 4 juvenile coho salmon (120 mm fork length (FL)), 3 young-of-year pink salmon (20 mm FL), and 10 Dolly Varden (55 to 120 mm Fl). We observed about 10 sets of adult pink salmon bones on the streambanks. The bones were from the summer of 2011. We continued sampling above the barrier an additional 500 linear feet. Sampling above the barrier captured 3 Dolly Varden. No length measurements were taken for the Dolly Varden. The unnamed tributary stream will be nominated to the Anadromous Waters Catalog.

About 550 linear feet above the 200 Road we sampled an unnamed tributary to the previously sampled stream (Figure 3). We began at the confluence of the previously sampled stream and worked upstream about 1,300 linear feet to a 6-foot high barrier. An old beaver dam and lake are located above the barrier. Sampling captured 15 Dolly Varden (35 to 200 mm FL). Because the stream gradient was low and contained step pools, the unnamed stream will be given a 66-foot wide riparian retention area during timber harvest activity.

On the morning of May 24, 2012, Mr. Harris, Ms. Neustel, and I drove to Cold Creek (Stream No. 252-33-10010) on the 1110 Road. A proposed harvest Unit 45 is located at Section 3, Township 23 South, Range 20 West, Seward Meridian. Ms. Neustel and I walked about 1.5 linear miles up Cold Creek to an unnamed tributary stream (Stream No. 252-33-10010-2006) looking for streams that flow from the unit into the

stream. We located one 2-foot wide stream adjacent to the unit that flows into Stream No. 252-33-10010-2006. The lower reach of the stream was covered in heavy brush and young Sitka spruce. We sampled from the confluence and worked upstream about 1,000 linear feet (Figure 4). Sampling captured 3 juvenile coho salmon (65 mm FL) and 3 Dolly Varden. No length measurements were taken for the Dolly Varden. An additional 25 juvenile coho salmon were observed in pool habitat. We stopped sampling when no new anadromous fish were captured. The stream will be nominated to the Anadromous Waters Catalog.

We walked down Cold Creek to an unnamed tributary stream (Stream No. 252-33-10010-2006-3007). We walked upstream from the confluence about 1,800 linear feet until we were stopped by a six foot high beaver dam and lake. While returning to Cold Creek we observed about 30 juvenile coho salmon in pool habitat. The addition of juvenile coho salmon will be nominated to the Anadromous Waters Catalog.

We walked down Cold Creek to Lilly Creek (Stream No. 252-33-10010-2004). We walked up Lilly Creek looking for streams that flow from Unit 45. Lilly Creek is located at Section 3, Township 23 South, Range 20 West, Seward Meridian. No streams flow from the unit into Lilly Creek. We walked to the outlet of Lilly Lake (Lake No. 252-33-10010-2004-0010). We sampled the headwater of Lilly Creek below the lake outlet (Figure 5). Sampling captured 5 juvenile coho salmon (55 to 135 mm FL). An additional 40 coho salmon were observed in pool habitat. The addition of juvenile coho salmon will be nominated to the Anadromous Waters Catalog. While on site, we located the outlet of Lilly Lake and entered the new location in a handheld Garmin Global Positioning System (GPS) unit. The corrected lake outlet location will be nominated to the Anadromous Waters Catalog.

On the morning of May 25, 2012, Mr. Harris, Ms. Neustel and I drove to a closed 1100 Spur Road. Ms. Neustel and I walked down an unnamed tributary stream that flows into Lilly Lake (Stream No. 252-33-10010-2004-3020). The stream is located at Section 2, Township 23 South, Range 20 West, Seward Meridian. The stream in the area of the spur road is located in an old harvest unit. We located a 5-foot high barrier and entered the location in a handheld Garmin GPS unit. The corrected barrier location will be nominated to the Anadromous Waters Catalog. The stream below the barrier has a 66-foot riparian retention area. While on site, we observed the stream was turbid because of rain runoff from the 1100 Road (Figure 6). Log trucks were hauling timber on the road.

Ms. Neustel and I drove to the 1110 Spur Road that crosses Cascade Creek (Stream No. 252-33-10014). Cascade Creek is located at Section 33, Township 22 South, Range 20 West, Seward Meridian. We walked downstream below the spur road until we located a 2-foot wide tributary stream (Figure 7). We sampled from the confluence upstream about 750 linear feet. Sampling captured 11 juvenile coho salmon (35 to 130 mm FL). We stopped sampling when no new anadromous fish were captured. The unnamed tributary of Cascade Creek will be nominated to the Anadromous Waters Catalog.

We walked up Cascade Creek crossing the spur road and sampled about 3,000 linear feet above the specified portion of Cascade Creek (Figure 8). Sampling captured 6 juvenile coho salmon (45 mm FL), 25 young-of-year pink salmon (15 to 20 mm FL), and 1 Dolly Varden. No length measurements were taken for the Dolly Varden. An additional 25 juvenile coho salmon were observed in pool habitat. We stopped sampling at an 8-foot high beaver dam and lake. The addition of juvenile coho salmon and the upper reach of Cascade Creek will be nominated to the Anadromous Waters Catalog.

We walked down Cascade Creek to an unnamed tributary stream about 600 linear feet above the spur road. The stream flows from an old harvest unit. The stream has a 66-foot wide riparian retention area. We sampled from the confluence upstream about 1,300 linear feet. Sampling captured 26 juvenile coho salmon (35 to 45 mm FL) and 1 Dolly Varden. No length measurements were taken for the Dolly Varden. We stopped sampling when no new anadromous fish were captured. The unnamed tributary of Cascade Creek will be nominated to the Anadromous Waters Catalog.

The ADF&G is currently planning on returning to Afognak for a sampling effort on June 13 through 15, 2012.

Figure 1. Unnamed tributary to Stream No. 252-31-10020.

Figure 2. Eight foot high barrier located on the unnamed tributary to Stream No. 252-31-10020.

Figure 3. View looking up the unnamed tributary stream.

Figure 4. Sampling the unnamed tributary to Stream No. 252-33-10010-2006.

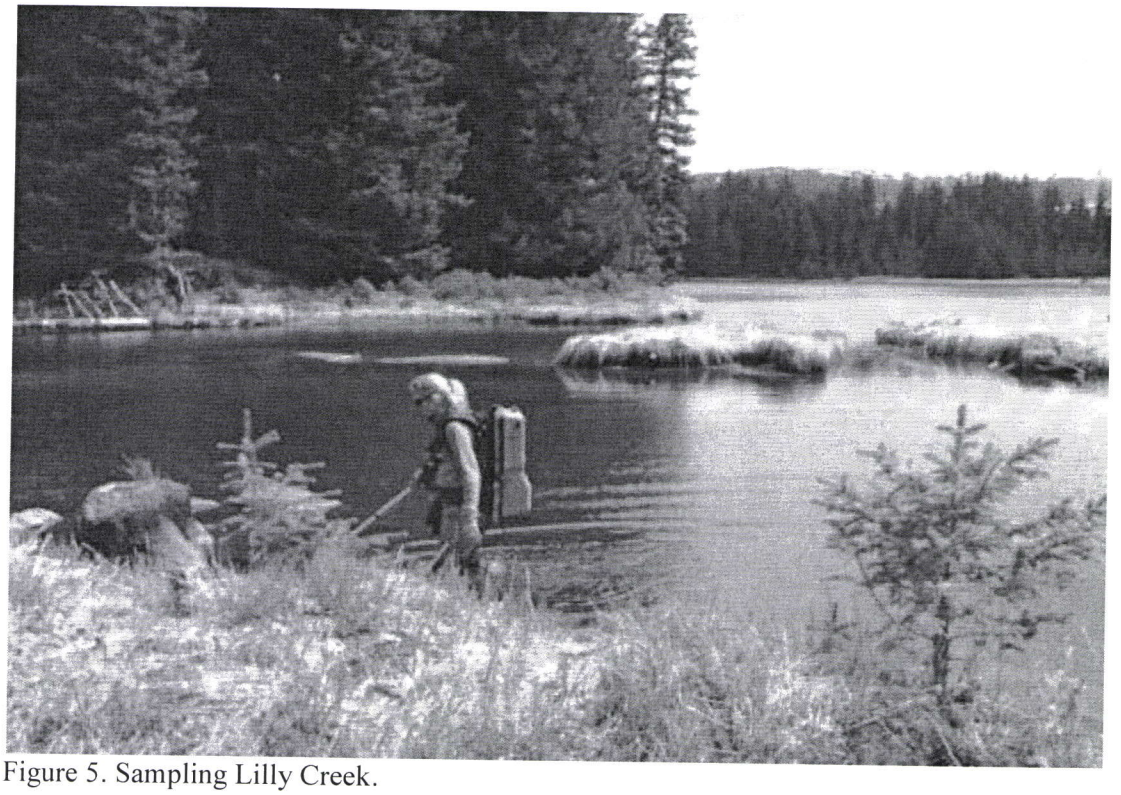

Figure 5. Sampling Lilly Creek.

Figure 6. Turbid water in Stream No. 252-33-10010-2004-3020.

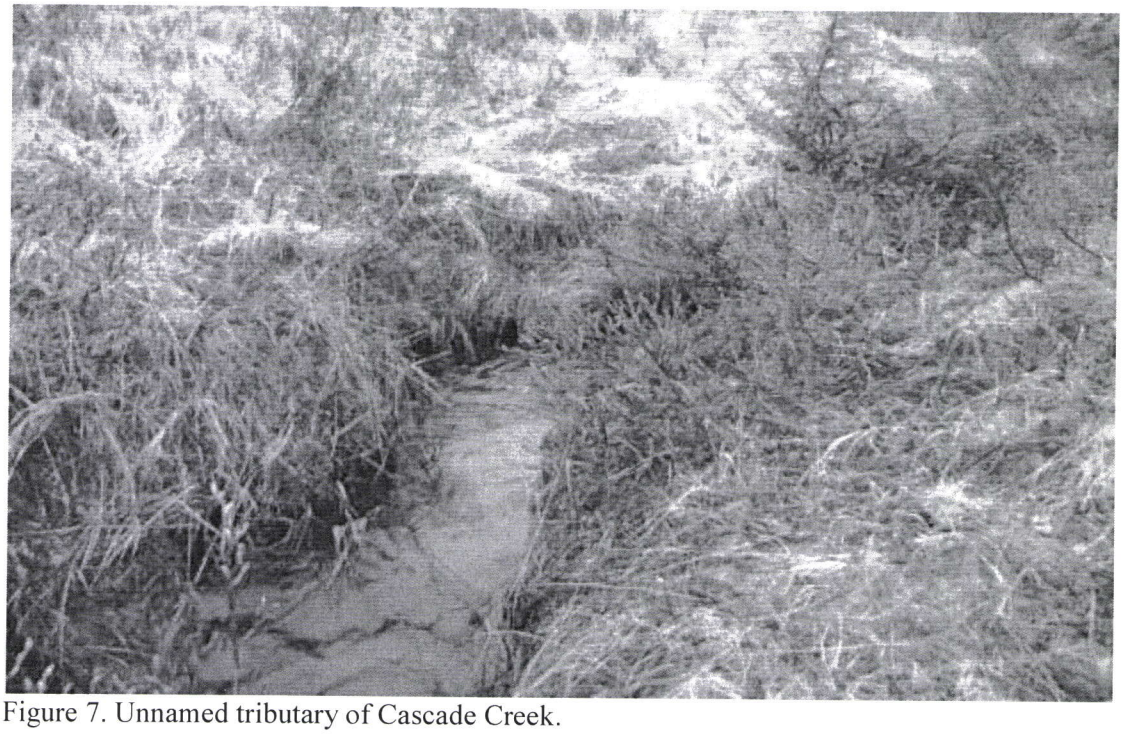

Figure 7. Unnamed tributary of Cascade Creek.

Figure 8. Cascade Creek above the 1110 Spur Road

cc: S. Schrof, ADF&G
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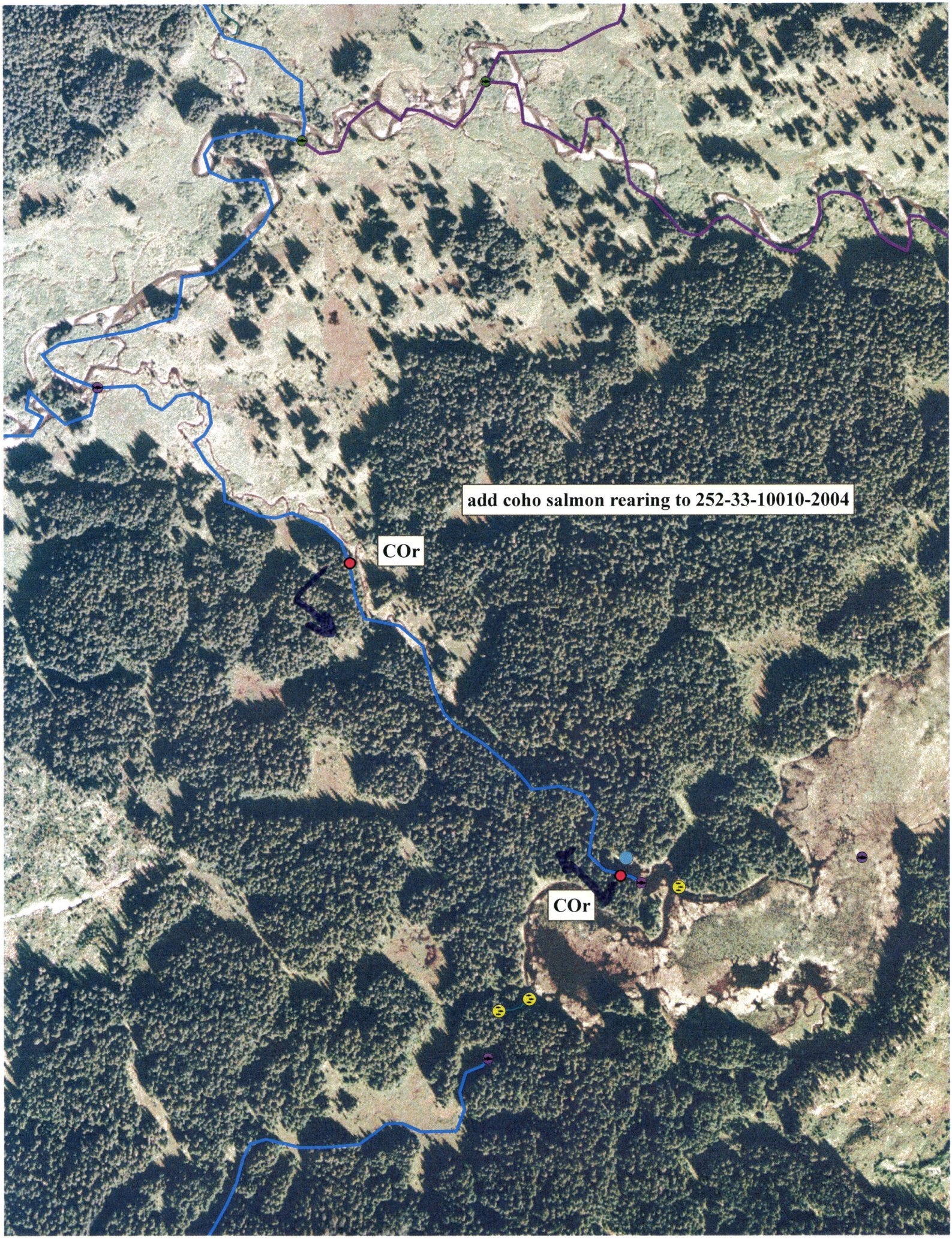
B. Scholze, KIB
K. Coulter, Koncor
G. Harris, ANC


add coho salmon rearing to 252-33-10010-2004
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