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

Nomination Form
Anadromous Waters Catalog

PS

Region: Southwest

USGS Quad(s): Afognak A-3

Anadromous Waters Catalog Number of Waterway: 252-34-10005-2069

Name of Waterway: Unnamed Tributary Marka River ☐ USGS Name ☑ Local Name

☑ Addition ☐ Deletion ☐ Correction ☐ Backup Information

For Office Use

Nomination #	130009		
Revision Year:	2014	Fisheries Scientist	6/27/13 Date
Revision to:	Atlas ____ Catalog ____ Both X	Habitat Operations Manager	8/27/13 Date
		AWC Project Biologist	1/29/13 Date
Revision Code:	A-1, B-6	JD6 Cartographer	9313 Date

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Juvenile Coho (2)	10/18/2012		X		☑
Dolly Varden	10/18/2012			X	☐
					☐
Extend stream w/ Coho salmon			Rearing		☐
					☐

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

During a AKSSFsampling prior to timber harvest, I used an electrofisher to sample above the specified reach. See the October 18-20, 2012 Trip Report.

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

Signature: _____ Date: 11/18/2012

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: _____

Name of Area Biologist (please print):

ALASKA DEPT. OF FISH & GAME
JAN 18 2013

Revision 05/08

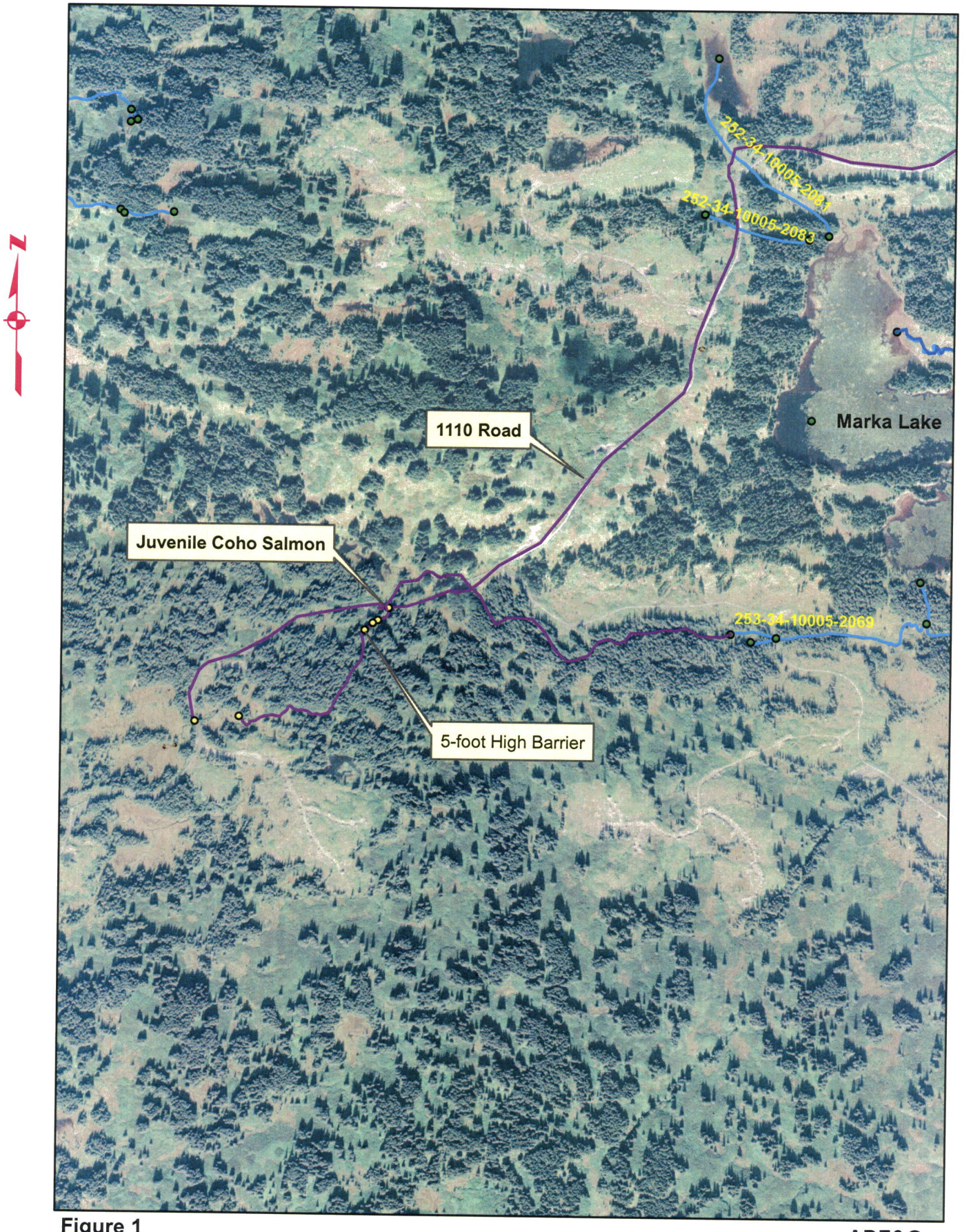


Figure 1

ADF&G

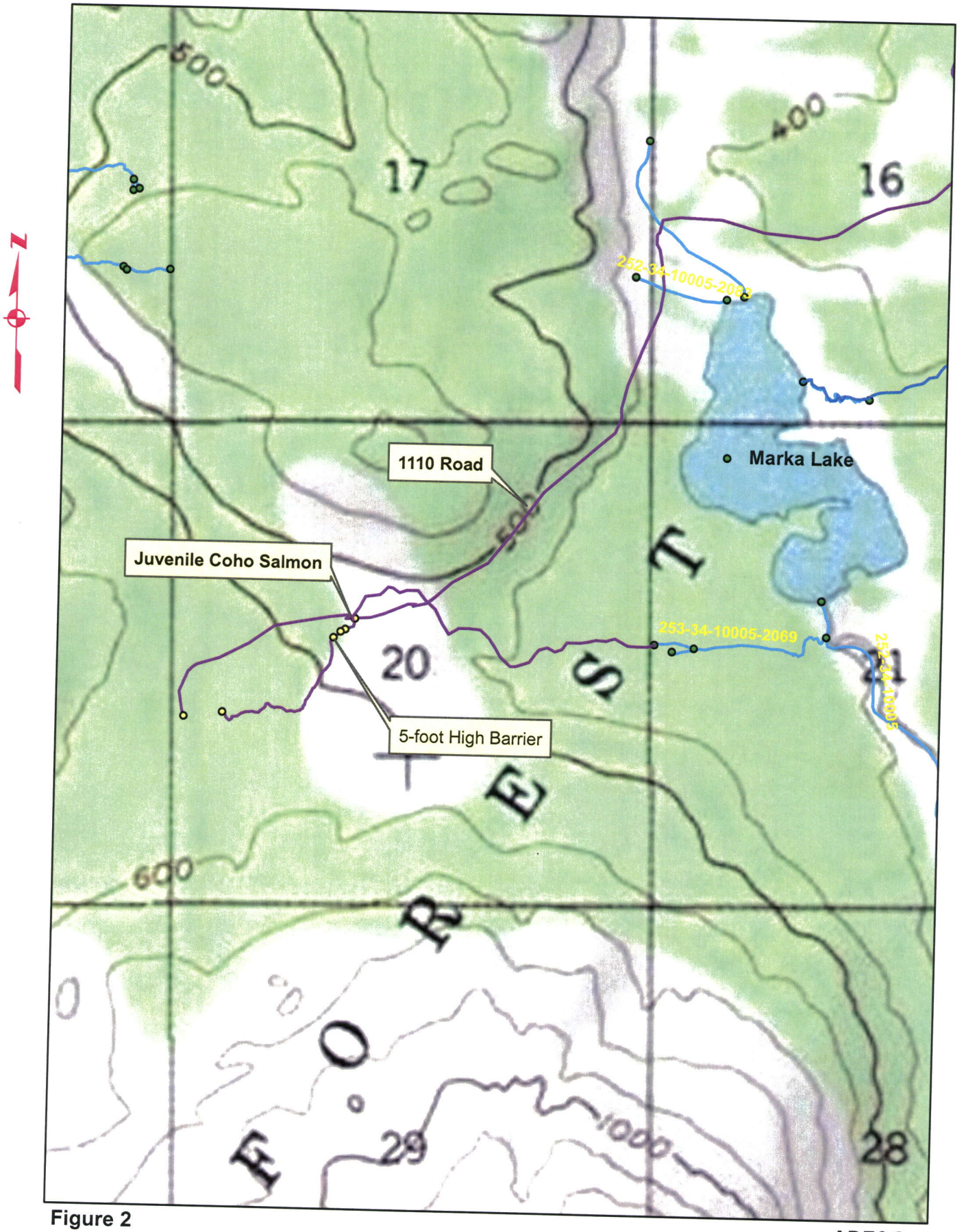


Figure 2

ADF&G

MEMORANDUM

State of Alaska
Department of Fish and Game
Division of Habitat

TO: Michael Daigneault
Central Region
Regional Supervisor

DATE: November 16, 2012

PHONE NO: 267-2813

FROM: Will Frost WF
Habitat Biologist

SUBJECT: AKSSF AWC Survey: Afognak Island
October 2012

On October 18 to 20, 2012, I joined Keith Coulter, Koncor, Greg Harris and Gerry Engel, Afognak Native Corporation (ANC), and Paul Blanche, Alaska Department of Fish and Game (ADF&G) 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 and its companion Atlas. Inclusion in the Anadromous Waters Catalog 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 Anadromous Waters Catalog is also afforded additional protection under State law at AS 16.05.871. The purpose of this trip was to assess stream crossings on roads that will be sampled during the 2013 field season. The 2013 sampling will extend the specified reach of streams in the Anadromous Waters Catalog. The weather conditions were partly sunny and cool.

On the morning of October 18, Mr. Harris, Mr. Engel, Mr. Blanche, and I drove to the 1110 Road Mile Post (MP) 14. Recent beaver activity blocked a culvert located above the specified reach of an unnamed tributary to the Marka River (Stream No. 252-34-10005-2069). Water from the blocked culvert damaged the road. Mr. Engel requested to remove the culvert and install a log stringer bridge in the same location. I agreed with the proposal.

Mr. Blanche and I drove to MP 13.6. I used an electrofisher to sample above the specified reach of Stream No. 252-34-10005-2069. About fifty feet above the road, I captured two juvenile coho salmon (70 mm Fork Length (FL)). I located a 5-foot high barrier about 500 linear feet above the road (Figure 1). I sampled an additional 2,000 linear feet of the stream to the MP 14 stream crossing. I captured 13 Dolly Varden (70 to 110 mm FL). No additional coho salmon were captured above the barrier. The additional stream reach will be updated to the Anadromous Waters Catalog.

We drove to MP 9.9. I sampled about 800 linear feet above the specified reach of Stream No. 251-40-10030-2040 to the 1110 Road. I did not capture or observe any fish. At the road, I observed a 24-inch diameter culvert (Figure 2). The culvert may be a barrier to fish passage. I sampled about 300 linear feet above the road. I captured one Dolly Varden. No length

measurement was taken for the Dolly Varden. Stream No. 251-40-10030-2040 will be re-sampled in 2013. The purpose of the new survey will be to correct the geographic stream location and sample for juvenile salmon during the summer.

We drove to MP 9.7. I sampled about 400 linear feet above the specified reach of Stream No. 251-40-10030 to the 1110 Road. I captured one juvenile coho salmon. No length measurement was taken for the coho salmon. About 100 feet below the 1110 road, I observed a failed plastic culvert buried in the streambed and blocking fish passage (Figure 3). The culvert may be a complete barrier to fish passage. I sampled about 200 linear feet above the road. I captured 10 Dolly Varden. No length measurements were taken for the Dolly Varden. Stream No. 251-40-10030 will be re-sampled in 2013. The purpose of the new survey will be to correct the geographic stream location and sample for juvenile salmon during the summer. By November 1, 2012, the failed culvert was removed from the stream.

On the morning of October 19, Mr. Harris, Mr. Engel, Mr. Blanche, and I drove to the 1125 Road to assess the condition of culverts and stream crossings along the accessible section of the road. Future timber harvest is planned beyond the end of the road and culverts that do not meet fish passage criteria will be removed.

At MP 0.4, we located a 24-inch diameter culvert. I sampled about 200 linear feet below the road and 300 linear feet above the road to a 5-foot high beaver dam. I captured 6 Dolly Varden. No length measurements were taken for the Dolly Varden. The stream flows into the specified reach of Stream No. 251-40-10030-2020. The specified reach is located below a perched 48-inch diameter culvert located at MP 1.0 (Figure 4). The ADF&G recommends that the culvert be removed and a log stringer bridge installed.

At MP 2.0, we located a stream ford. We agreed a log stringer bridge about 7-feet long will be installed at this location. The stream was sampled in 2009 and supports resident Dolly Varden.

At MP 2.1, we located an additional stream ford (Figure 5). Because the stream is less than 3-feet wide, the ADF&G recommends that a culvert be installed for fish passage at this location. The stream was sampled in 2009 and supports resident Dolly Varden.

At MP 2.4, we located a 24-inch diameter culvert. There is no fish habitat at this location. The ADF&G recommends no changes to the culvert.

At MP 2.7, we located a 24-inch diameter culvert. Stream No. 251-40-10030-2020-3020 flows through the culvert. The culvert may be a barrier to fish passage. The ADF&G recommends that the culvert be removed and a log stringer bridge installed.

At MP 2.8, we located a 24-inch diameter culvert. I walked to Paramanof Lake and sampled an unnamed stream that flows into the lake about 1,500 linear feet below the road (Figure 6). I captured 8 juvenile coho salmon (45 to 70 mm FL) and 10 Dolly Varden (30 to 175 mm FL). The unnamed stream will be nominated to the Anadromous Waters Catalog. The ADF&G recommends that the culvert be removed and a log stringer bridge installed.

At MP 3.0, we located a 24-inch diameter culvert. There is no fish habitat at this location. The ADF&G recommends no changes to the culvert.

At MP 3.2, we located a 24-inch diameter culvert. An unnamed stream about 3-feet wide flows through the culvert (Figure 7). The stream enters Stream No. 251-40-10030 about 1,300 linear feet below the road. I sampled about 450 linear feet of the stream below the road. I captured one Dolly Varden. No length measurement was taken for the Dolly Varden. The stream will be re-sampled in 2013. The ADF&G has no recommendation for the culvert until additional sampling is completed in 2013.

At MP 3.4, we located a 72-inch diameter culvert above the specified reach of Stream No. 251-40-10030-2014. We located a 12-foot high barrier about 200 feet below the road (Figure 8). The barrier location will be updated to the Anadromous Waters Catalog. The ADF&G recommends no action to be taken with the culvert.

On the morning of October 20, Mr. Coulter, Mr. Blanche, and I drove to the 900 Road MP 9.0. We walked up Stream No. 252-32-10010-2006 about 0.5 miles to the upper end of the specified reach. We located an unnamed one acre lake about 500 feet from the specified reach and determined the lake drains away from Stream No. 252-32-10010-2006 into Little Afognak Lake (Lake No. 252-32-10010-0020). A 7-foot high beaver dam is located at the outlet of the lake. I sampled an unnamed stream that flows from the one acre lake about 1,500 linear feet to Little Afognak Lake. I captured 3 juvenile coho salmon (70 to 110 mm FL (Figure 9)). The unnamed stream will be nominated to the Anadromous Waters Catalog.

We walked about 500 feet east of the unnamed stream along the lake shore to an outlet of a beaver pond. I sampled about 50 linear feet from the lake to the beaver pond. I captured one Dolly Varden. No length measurement was taken for the Dolly Varden. The beaver pond was frozen and no sampling occurred. During future timber harvest, the beaver pond will require a 66 foot riparian retention area.

We walked west of the beaver pond along the lake shore about 1,500 linear feet to an unnamed 3-foot wide stream that flows into Little Afognak Lake. I sampled about 700 linear feet of the stream. I captured one Dolly Varden. No length measurement was taken for the Dolly Varden. About 1,000 linear feet above the lake we determined the geomorphology of the stream will not support anadromous fish. The stream above this location is Type 1-C.

The ADF&G is currently planning on returning to Afognak for a sampling effort in April 2013.

Figure 1. Barrier in the unnamed stream near the 1110 Road MP 13.6.

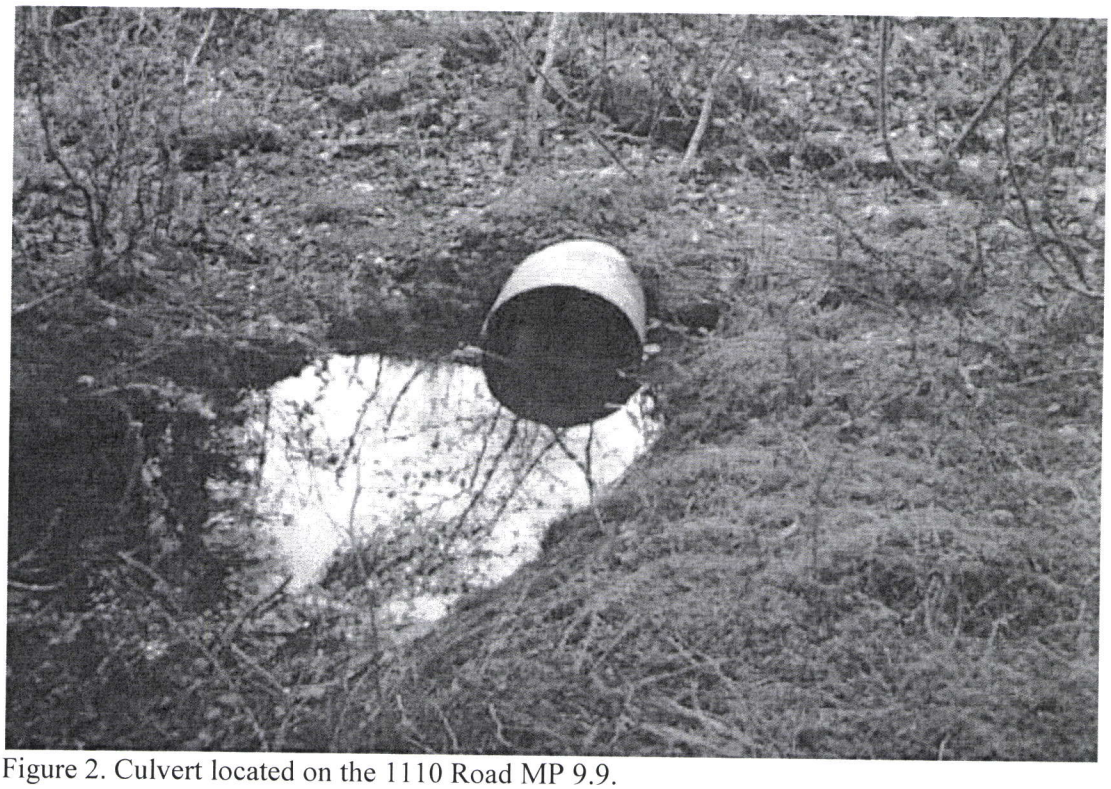


Figure 2. Culvert located on the 1110 Road MP 9.9.

Figure 3. Failed culvert located below the 1110 Road MP 9.7.

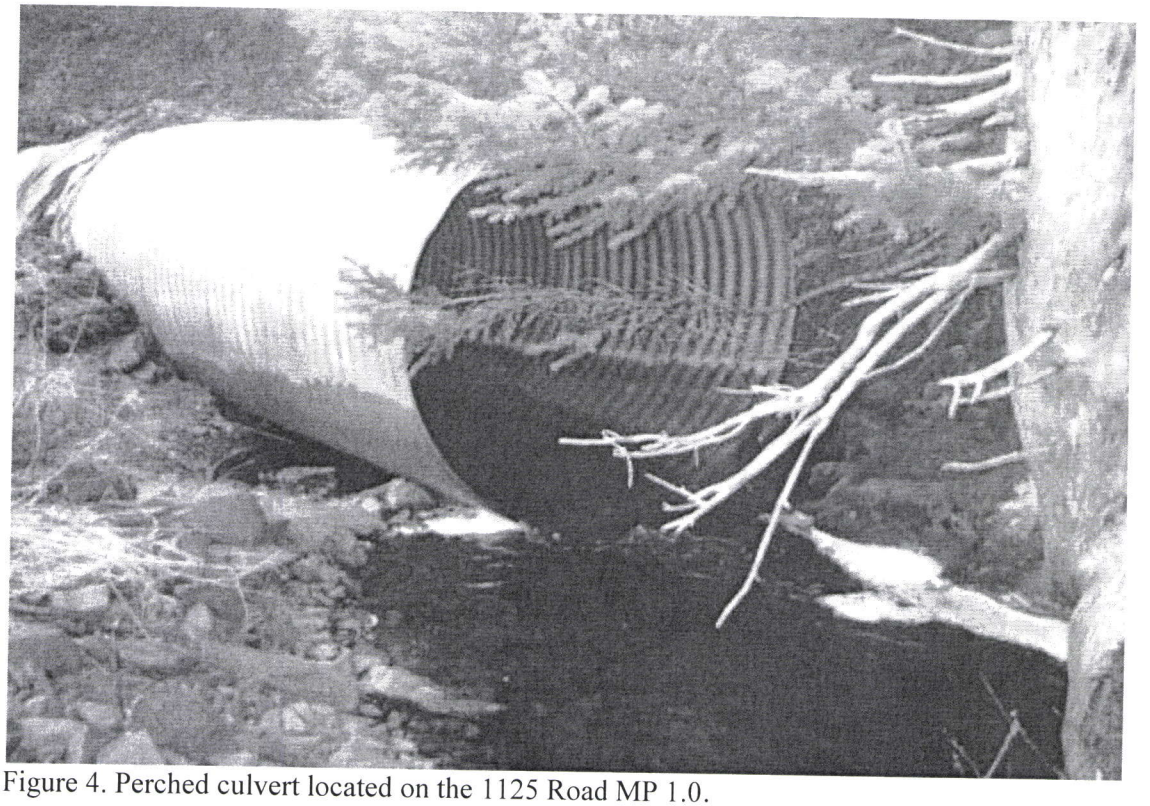


Figure 4. Perched culvert located on the 1125 Road MP 1.0.

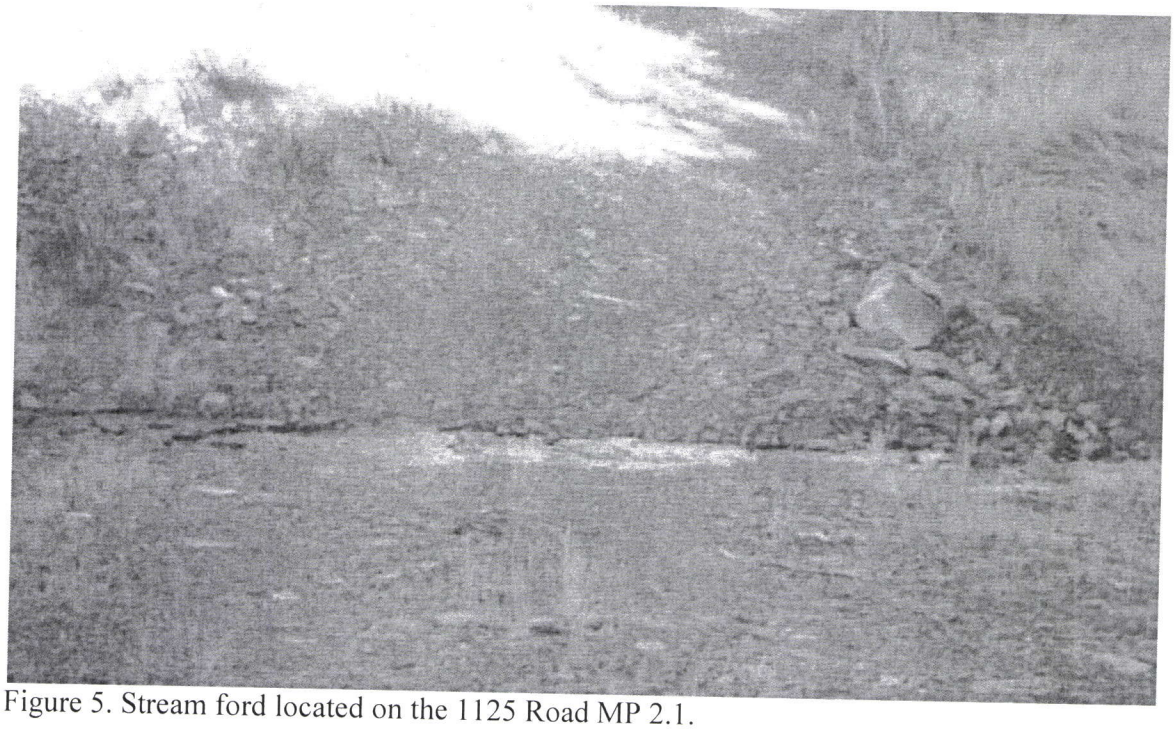


Figure 5. Stream ford located on the 1125 Road MP 2.1.

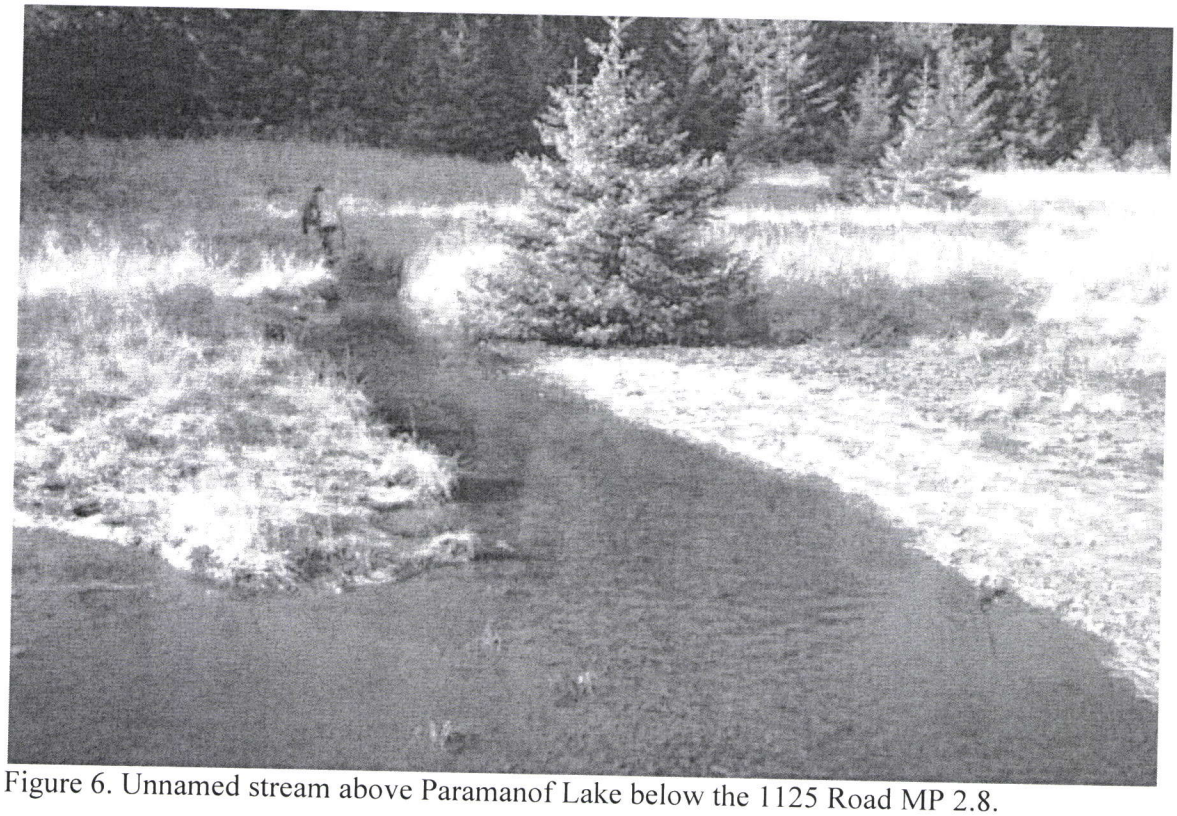


Figure 6. Unnamed stream above Paramanof Lake below the 1125 Road MP 2.8.

Figure 7. Unnamed stream below the 1125 Road MP 3.2.

Figure 8. Barrier below the 1125 Road MP 3.4.

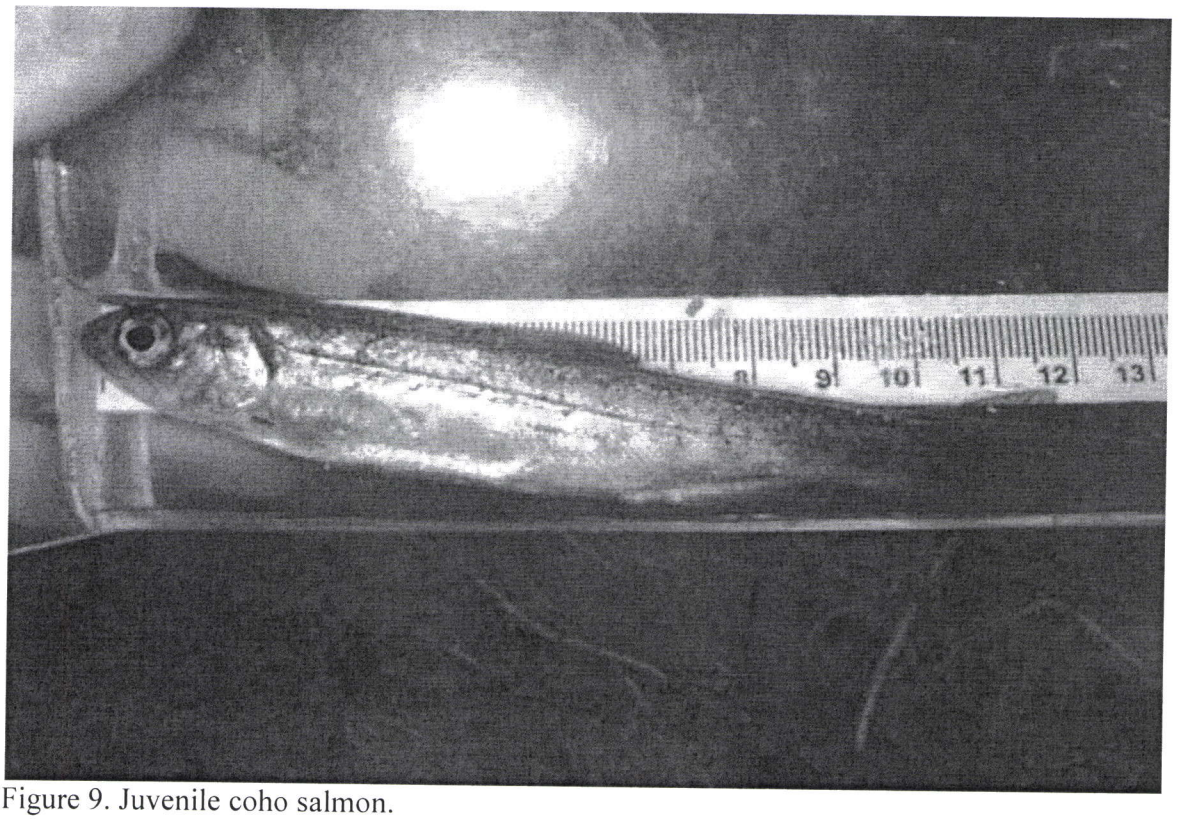
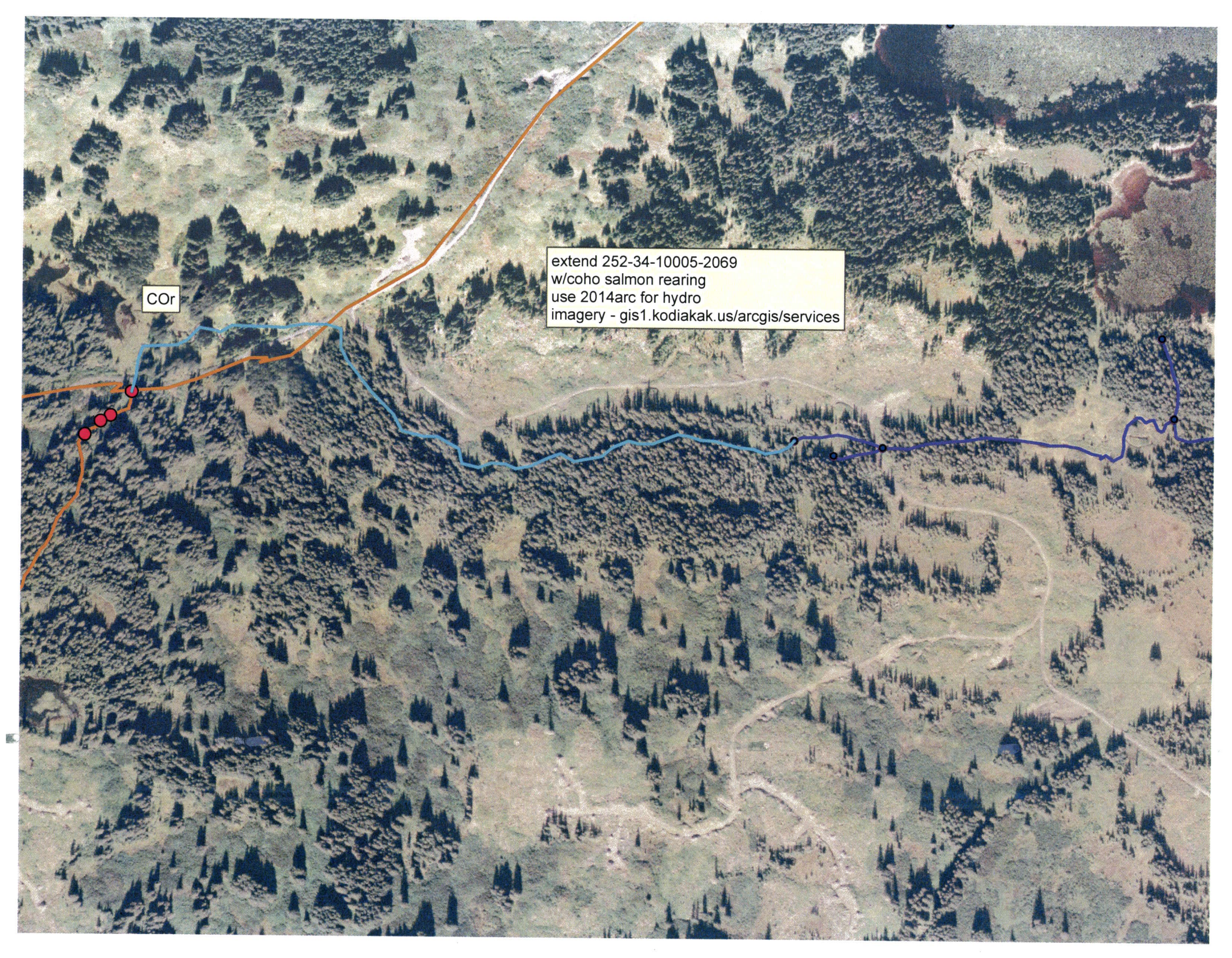


Figure 9. Juvenile coho salmon.

cc: S. Schrof, ADF&G
L. Van Daele, ADF&G
D. Tracy, ADF&G
A. Ott, ADF&G
C. Curtis, ADF&G
K. Hanley, ADEC
J. Winters, ADOF
B. Cassidy, KIB
B. Scholze, KIB
K. Coulter, Koncor
G. Harris, ANC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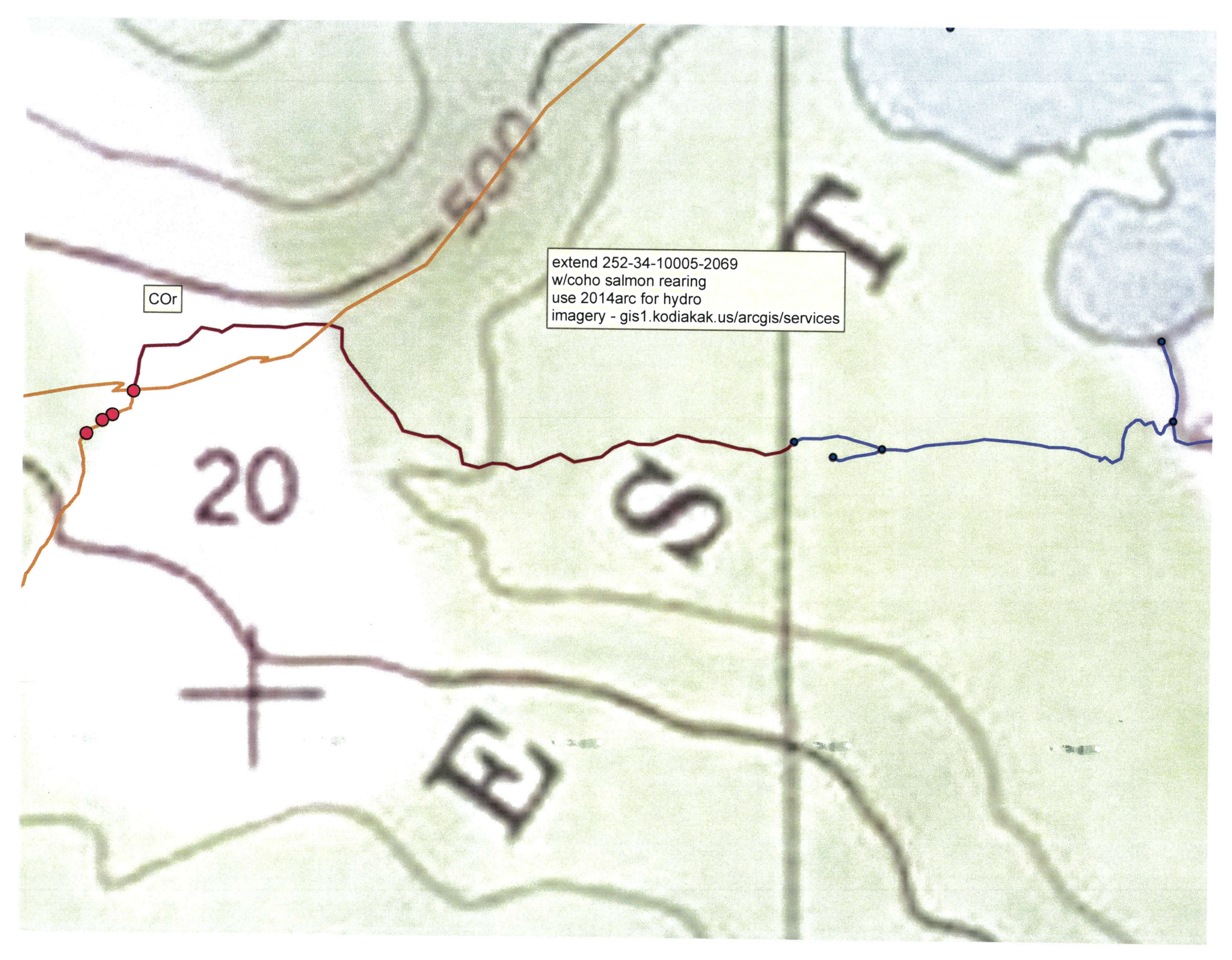
w/coho salmon rearing
use 2014arc for hydro
imagery - gis1.kodiakak.us/arcgis/services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