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

**Nomination Form**
**Anadromous Waters Catalog**

Region: Southwest

USGS Quad(s): Kodiak D-2

Anadromous Waters Catalog Number of Waterway: 259-10-10070

Name of Waterway: Katmai Creek

☐ USGS Name ☑ Local Name

☐ Addition ☐ Deletion ☑ Correction ☒ Backup Information

For Office Use

| | | | |
|---|---|---|---|
| Nomination # | 130170 | | |
| Revision Year: | 2014 | Fisheries Scientist | 10/29/13 Date |
| Revision to: Atlas ____ Catalog ____ Both ✓ | | Habitat Operations Manager | 10/29/13 Date |
| | | AWC Project Biologist | 9/4/13 Date |
| Revision Code: | B-2, E-9 | Cartographer | 11 6 13 Date |

OBSERVATION INFORMATION

| Species | Date(s) Observed | Spawning | Rearing | Present | Anadromous |
|---|---|---|---|---|---|
| Juvenile Coho 50 | 8/15/2013 | | X | | ☑ |
| Dolly Varden | 8/15/2013 | | | 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:**

During a fish habitat survey I located a barrier to fish passage about 1,000 feet below Mahoona Dam (Figures 1 and 2). See the August 15, 2013 trip report.

Shorten stream, add coho salmon rearing & barrier

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

Signature:

Date: 8/25/2013

Agency: ADF&G, Division of Habitat

Address: 333 Raspberry Road
Anchorage, AK 99518

ALASKA DEPT. OF FISH & GAME
AUG 29 2013

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 05/08

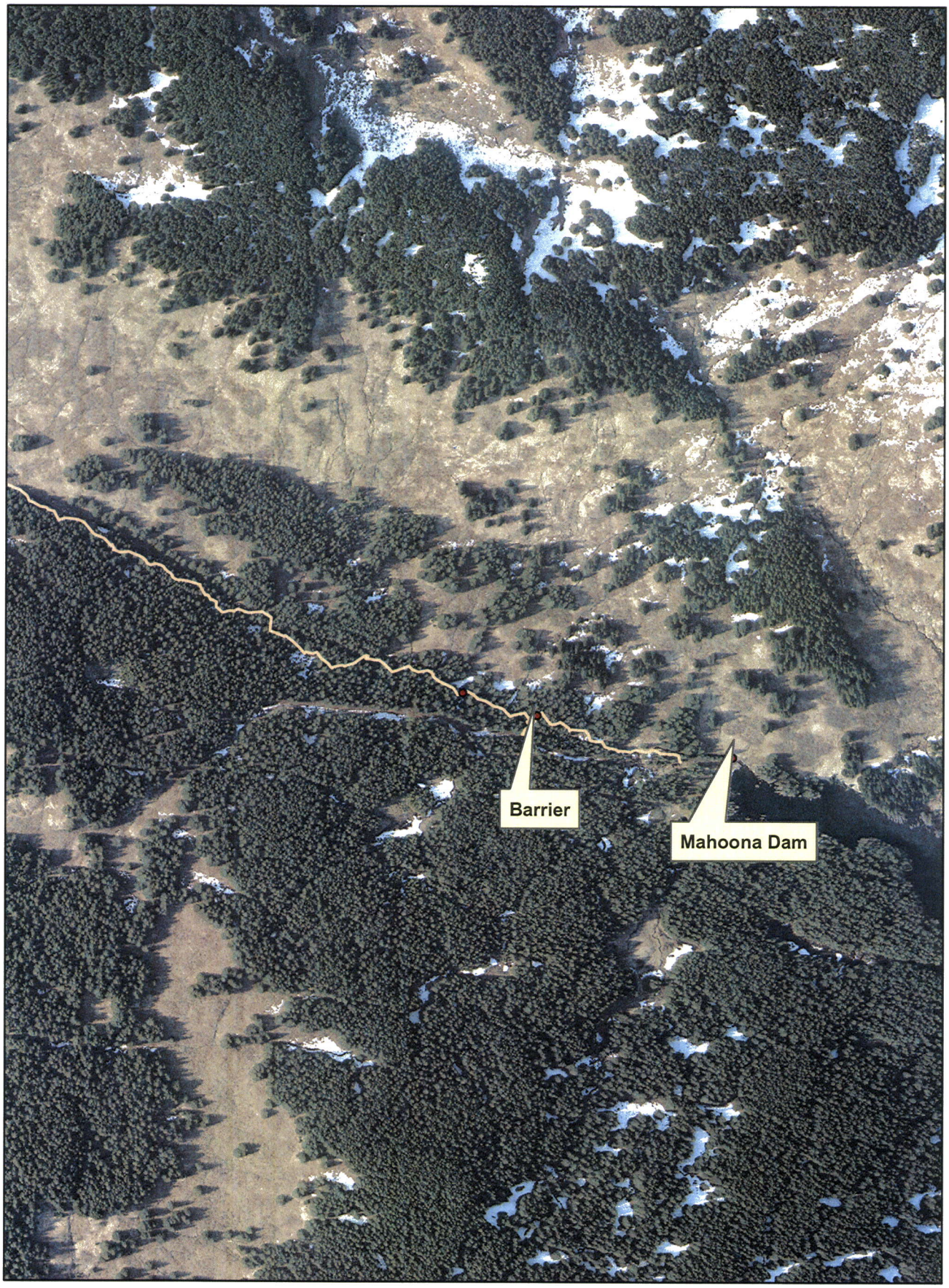



Figure 1.

0 0.05 0.1 0.2 0.3 0.4 Miles

ADF&G

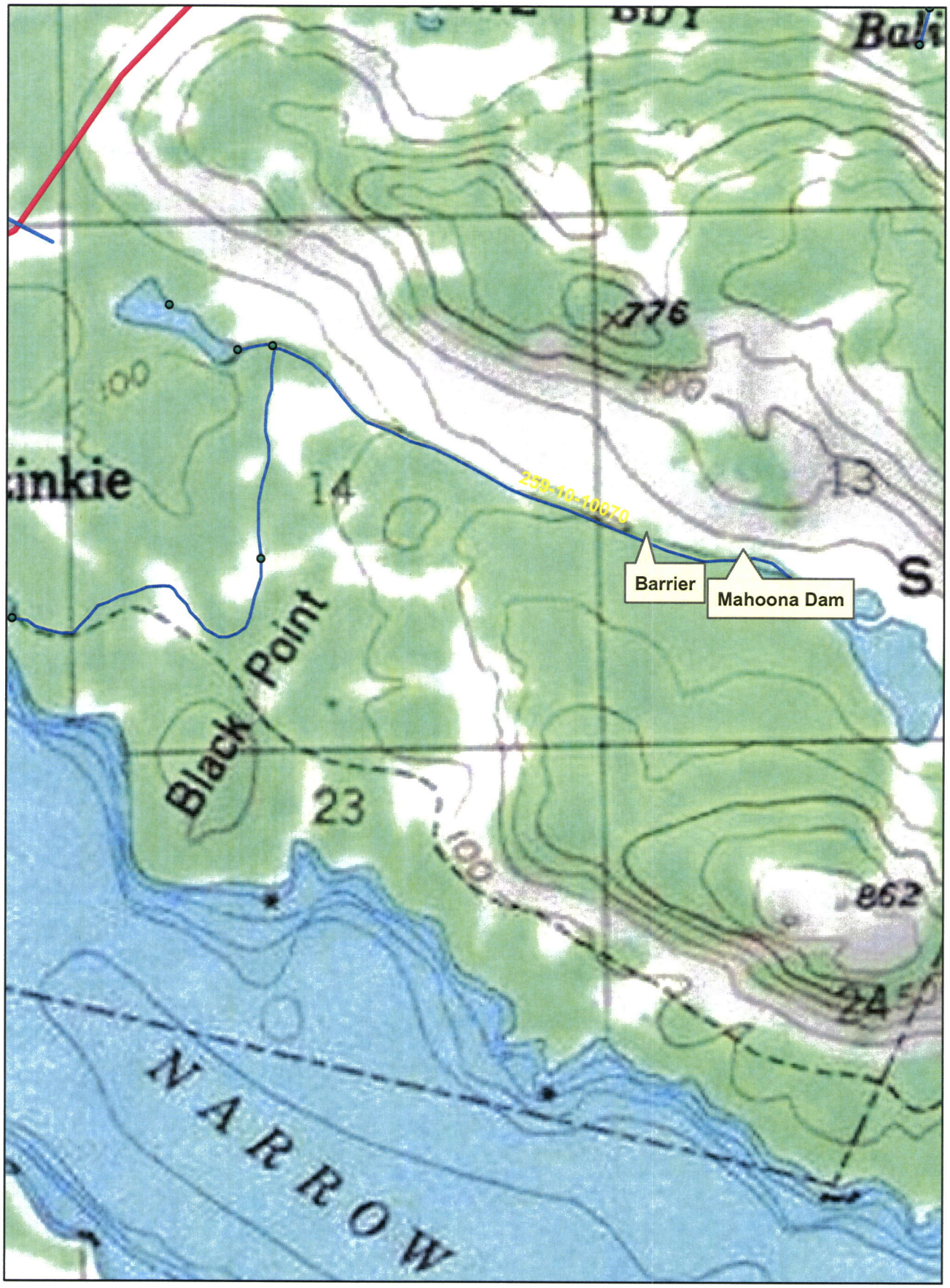



Figure 2

0 0.125 0.25 0.5 0.75 1 Miles

ADF&G

# MEMORANDUM

# State of Alaska

Department of Fish and Game
Division of Habitat

TO: Michael Daigneault
Central Region
Regional Supervisor

DATE: August 27, 2013

PHONE NO: 267-2813

FROM: Will Frost WF
Habitat Biologist

SUBJECT: Ouzinkie Katmai Creek Trip Report

On August 16, 2013, I joined Joe Hess and Steve Wilson, Alaska Native Tribal Health Consortium (ANTHC) for a joint site visit in the City of Ouzinkie. The purpose of the site visit was to conduct an inspection of the proposed Ouzinkie hydropower redevelopment project (Figure 1). The ANTHC, on behalf of the City of Ouzinkie, has developed plans to repair the existing Mahoona Dam and tailrace located in Katmai Creek. The Alaska Department of Fish and Game, Division of Habitat requested a site visit to the proposed project to determine if a Fish Habitat Permit would be required. The weather conditions were clear and warm.

I began the inspection by walking Katmai Creek (Stream No. 259-10-10070) from the mouth of the stream about 4,000 linear feet to the existing tailrace outflow culverts. I set two baited minnow traps in the stream. The traps soaked about four hours. The traps captured Dolly Varden and juvenile coho salmon.

Mr. Hess and I discussed the proposal to remove the two existing plastic culverts located in Katmai Creek (Figure 2). The culverts discharge water from the tailrace after the water is taken from Mahoona Lake and sent through a penstock to generate power in the turbines located adjacent to Katmai Creek. The existing culverts are located in a backwater pool adjacent to Katmai Creek and are not blocking fish passage (Figure 3). The ANTHC is proposing to remove the culverts and install one 30-inch diameter culvert. The culvert will be installed with the invert elevation above the ordinary high water to prevent fish from entering the culvert, to exclude fish from the tailrace. Riprap will be installed at the culvert outlet for scour protection. A Fish Habitat Permit will be required for the culvert replacement.

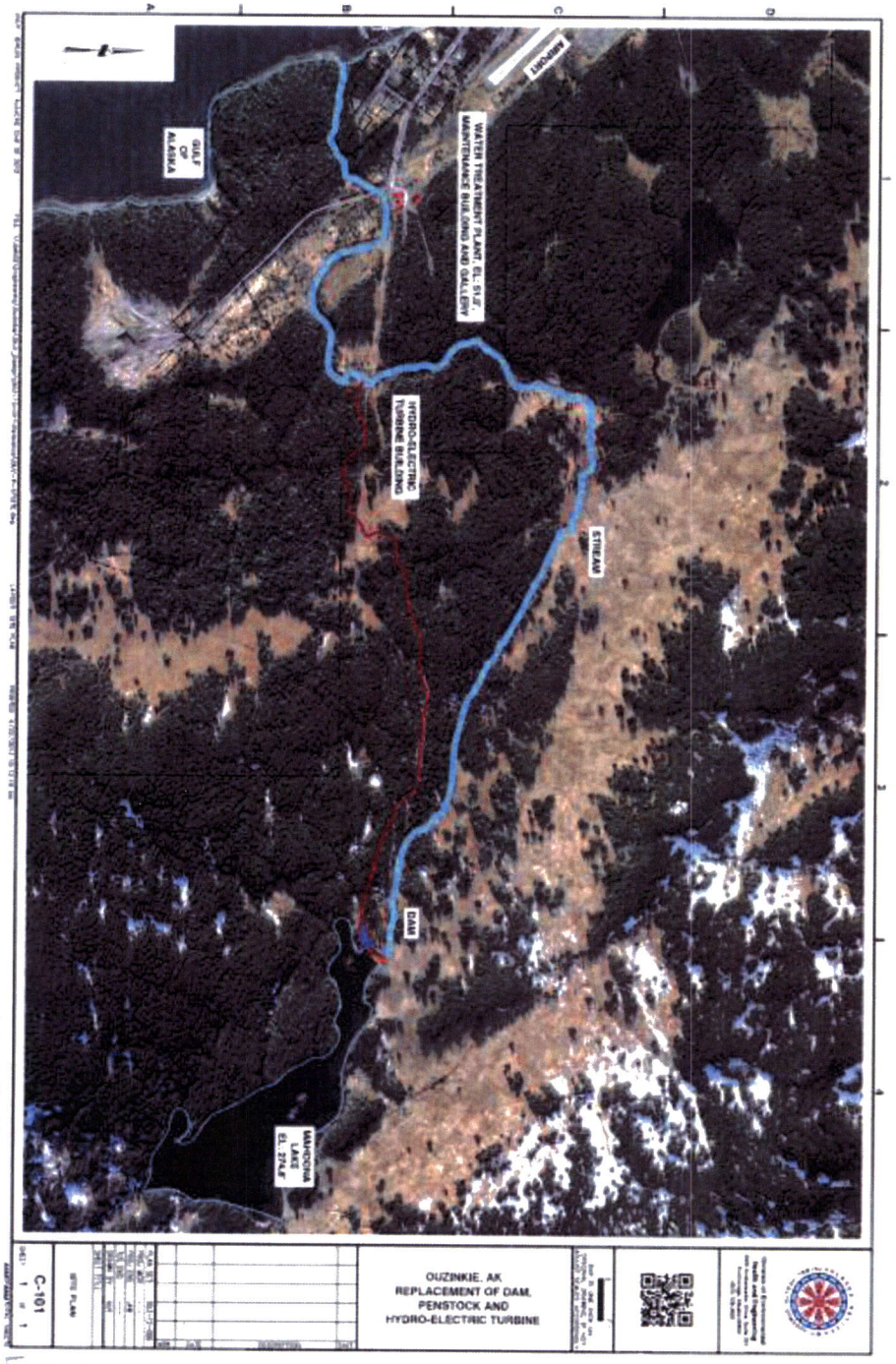
We walked about 900 linear feet above the tailrace culverts to an existing abandoned log dam that was built about 70 years ago for a cannery (Figures 4 and 5). The cannery is no longer standing. Water was observed flowing through and around the dam. I set one baited minnow trap above the dam. The trap soaked about 30 minutes. The trap captured five juvenile coho salmon. The dam may be a partial barrier to fish passage. The dam is located on land managed by the City of Ouzinkie. I discussed the condition of the dam with Dan Clarion, Mayor of

Ouzinkie. I stated an existing overflow channel located adjacent to the dam could be modified to allow better fish passage around the dam.

We walked up the dam access road to the Mahoona Dam (Figures 6 and 7). The existing wood dam will be replaced with an earth dam capped with concrete. An existing concrete spillway will be retained but modified by extending the outlet and adding riprap at the new outlet for scour protection. The existing water diversion for the penstock takes a maximum 11 cubic feet per second (CFS). No additional water is proposed to be diverted. At the time of my site visit, about 5 to 8 CFS was being diverted from Katmai Creek. I observed adequate stream flow throughout the upper reach for fish passage. Katmai Creek is a specified anadromous waterbody to the dam. A Fish Habitat Permit will be required for the dam replacement.

We walked downstream from the dam about 1,000 linear feet. We observed a 9-foot high barrier (Figures 8 and 9). We observed Dolly Varden in the stream above and below the barrier and juvenile coho salmon below the barrier. I determined the barrier is blocking adult salmon from reaching the dam. The barrier will be nominated as the upper extent of the specified waterbody in the Anadromous Waters Catalog.

cc: S. Schrof, ADF&G
L. Van Daele, ADF&G
N. Svoboda, ADF&G
D. Tracy, ADF&G
A. Ott, ADF&G
B. Cassidy, KIB
R. Scholze, KIB
J. Hess, ANTHC




Applicant: City of Ouzinkie
Agent: ANTHC-DEHE
Sec. 13&14 T026S R020W Seward
Sheet 1 of 4 Date 05/30/2013

Figure 1

Figure 2. The existing culverts located in Katmai Creek.

Figure 3. Katmai Creek below the culverts. View looking downstream.

Figure 4. Log dam located in Katmai Creek.

Figure 5. Log dam located in Katmai Creek. View looking upstream.

Figure 6. Mahoona Dam. View looking upstream.

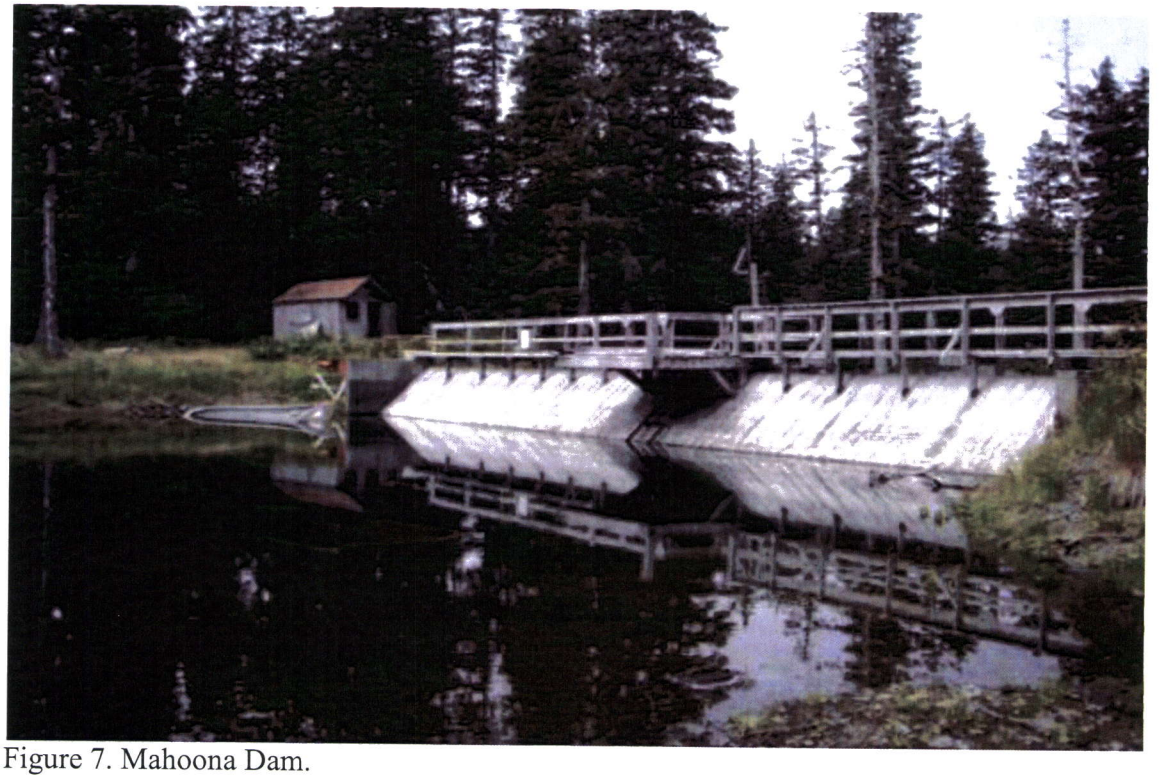
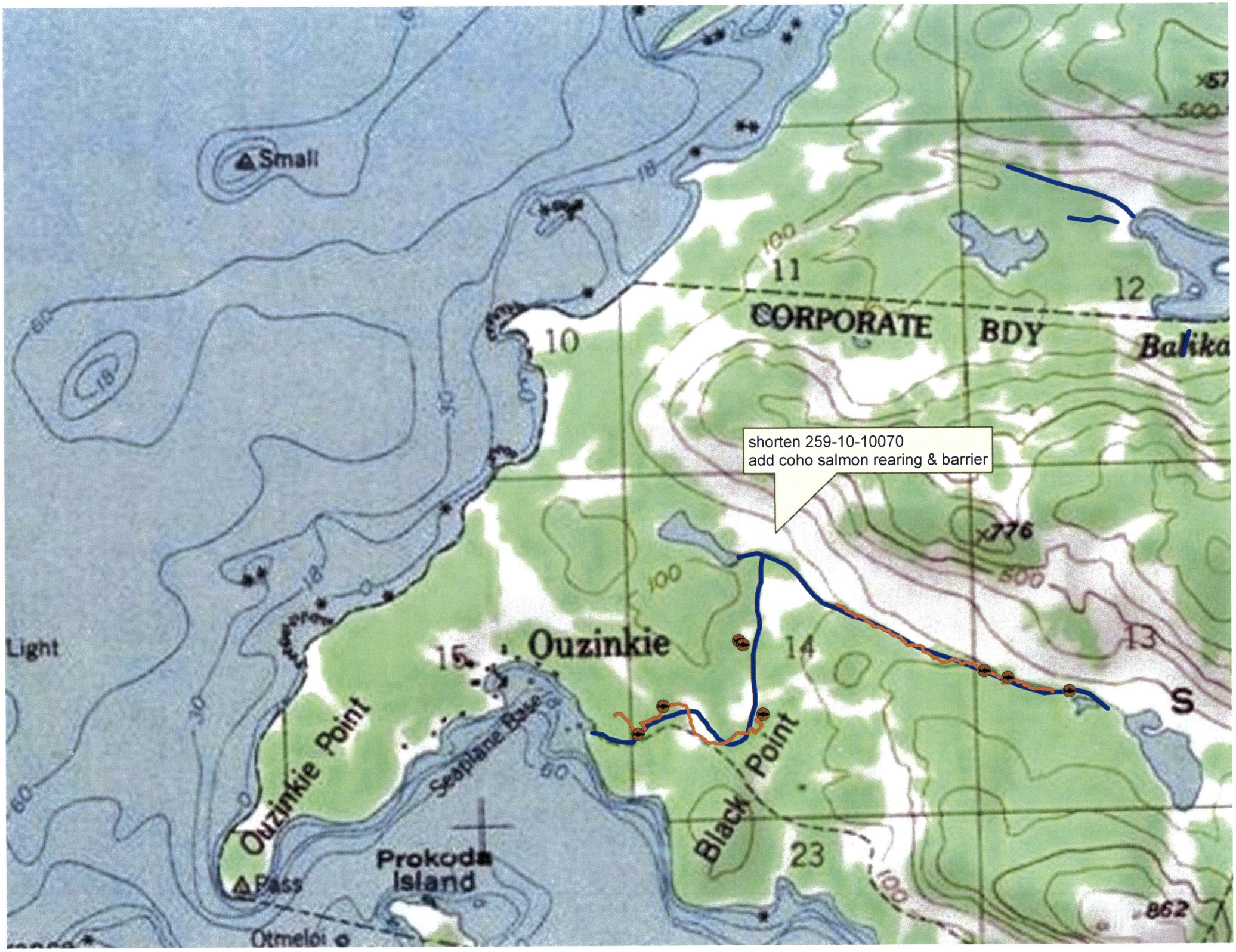


Figure 7. Mahoona Dam.

Figure 8. Barrier in Katmai Creek below the Mahoona Dam. View looking upstream.

Figure 9. Barrier in Katmai Creek below the Mahoona Dam. View looking upstream.


shorten 259-10-10070
add coho salmon rearing & barrier
Small
Light
Ouzinkie
Ouzinkie Point
Seaplane Base
Prokoda Island
Pass
Otmeloi
Black Point
CORPORATE BDY
Balika
10
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13
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15
23
776
862
S