



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

Nomination Form
Anadromous Waters Catalog

Region Southwest USGS Quad(s) Skagway A-2
 AWC Number of Water Body 115-32-10260-2005
 Name of Water body Helgate Creek USGS Name Local Name
 Addition Deletion Correction Backup Information

For Office Use

Nomination # <u>140377</u>	_____ Fisheries Scientist	_____ Date
Revision Year: <u>2015</u>	_____ Habitat Operations Manager	_____ Date
Revision to: Atlas _____ Catalog _____ Both _____	<u>[Signature]</u> AWC Project Biologist	<u>9/29/14</u> Date
Revision Code: <u>F-1</u>	_____ GIS Analyst	_____ Date

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
<u>Coho (juv)</u>	<u>9-27-11</u>		<u>X</u>		<input checked="" type="checkbox"/>
<u>Coho (adult)</u>	<u>10-6-10</u>			<u>X</u>	<input checked="" type="checkbox"/>
<u>Coho (adult)</u>	<u>11-11-10</u>			<u>X</u>	<input checked="" type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>

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
Coho salmon rearing previously documented
single fish upstream of current documentation

Name of Observer (please print): Ron Schultz Date: 9-17-14
 Signature: [Signature]
 Agency: Takshuk Watershed Council
 Address: P.O. Box 1029
Haines AK 99827
 ALASKA DEPT. OF FISH & GAME
 SEP 23 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: [Signature] Date: 9/23/2014 Revision 11/13
 Name of Area Biologist (please print): _____

Alaska Sustainable Salmon Fund Semiannual Performance Report

I. Project Identifiers

AKSSF Project Number: 45970
Project Title: Haines Salmon Habitat Assessment – Year 3
Principal Investigator: Brad Ryan, Executive Director
Takshanuk Watershed Council (TWC)
PO Box 1029
Haines, AK 99827
Phone: (907) 766-3542
Email: brad.ryan@gmail.com
ADF&G Contact: Richard Chapell; (907) 766-2625
PCSRF Objective: HP&R
Congressionally Designated: no
Project Period: Start: 7/1/11 End: 9/30/12
Reporting Period: 5/1/11 – 10/31/11
Expenditures thru 10/31/11: \$0 of \$32,638
Date Prepared: 11/15/2011

II. Synopsis

This project is a continuation of a salmon distribution assessment in the Chilkat, Chilkoot, and Ferebee watersheds. Takshanuk Watershed Council (TWC) will trap, count, and identify fish in local streams of importance in order to identify and nominate streams for inclusion in the State of Alaska's *Catalog of Waters Important for the Spawning, Rearing or Migration of Anadromous Fishes* and its associated Atlas (AWC). Listing in the AWC is an essential step to ensuring statutory protection of streams. By increasing the number of listed streams, the project will increase the protection and knowledge of salmon distribution and habitat. A secondary effort will be made to increase life-stage specific knowledge of habitat usage on streams currently catalogued simply as 'species present' as time and funding allows.

III. Summary of Progress, Results, and Problems

The fish distribution work concentrated on Sawmill and One-Mile Creeks, two of our most urbanized fish bearing streams in Haines. .25 miles of stream were surveyed on Sawmill Creek which resulted in .16 miles of stream being nominated to the Alaska Anadromous Waters Catalog (AWC). .93 miles of stream were surveyed on One-Mile Creek which resulted in .50 miles of stream being nominated to the AWC. TWC will be concentrating their efforts on the project during the summer of 2012.

Alaska Sustainable Salmon Fund Semiannual Performance Report

I. Project Identifiers

AKSSF Project Number: 45976
Project Title: Porcupine Area Salmon Assessment
Principal Investigator: Brad Ryan, Executive Director
Takshanuk Watershed Council
PO Box 1029
Haines, AK 99827
Phone: (907) 766-3542
Email: brad.ryan@takshanuk.org
ADF&G Contact: Richard Chapell; 766-2625
PCSRF Objective: HP&R
Congressionally Designated: no
Project Period: Start: 7/1/11 End: 11/30/12
Reporting Period: 5/1/11 – 10/31/11
Expenditures thru 10/31/11: \$0 of \$48,948
Date Prepared: 11/15/2011

II. Synopsis

The Takshanuk Watershed Council (TWC) will conduct a salmon distribution assessment in the Klehini River watershed in and around the Porcupine Mining District near Haines. TWC will trap, count, and identify fish in local streams of importance in order to identify and nominate streams for the State of Alaska's *Catalog of Waters Important for the Spawning, Rearing, or Migration of Anadromous Fishes* and its associated Atlas (AWC). Listing in the AWC is an essential step to ensuring statutory protection of fish habitat. TWC will also gather water quality data for baseline information on anadromous streams as well as springs and ponds affecting these streams in the project area.

III. Summary of Progress, Results, and Problems

TWC completed two sessions of their quarterly fish distribution surveys. TWC set minnow traps in Herman, Cave, Porcupine, Bear, Glacier, and Sarah Creeks in July and then again in late October of 2011. These traps were placed along the fish bearing portions of these creeks and left overnight and pulled out the next day. The fish captured were identified and measured and then released. Visual observations were also made during these trips to spot adult fish returning to spawn or capture juvenile fish that weren't captured by the traps. In some instances, especially in July, some of the juvenile fish were too small for the traps and could swim right through the mesh of the traps so a dip net was used to capture these small fish. The locations of these traps were also recorded and then the complete information package was reproduced on GIS maps.

The first round of water quality testing was performed during the first week of November. The same streams that were fish trapped (Herman, Cave, Porcupine, Bear, Glacier, and Sarah Creeks) plus the Little Jarvis Creek and two locations on the Klehini River, one above the study site and one below were also tested for a variety of water

quality parameters. The water samples were tested for dissolved and total metals (As, Ba, Cd, Cr, Cu, Fe, Pb, Se, Ag, Zn, Mn, Al, and Na), total suspended solids, hardness (Ca & Mg), Hg (dissolved and total), and sulfate. These samples were taken over the course of 2 days and immediately sent to Test America in Tacoma, WA for analysis.

**Alaska Sustainable Salmon Fund
Project Completion Report**

AKSSF Project Number: 45329
Project Title: Upper Chilkoot Watershed Assessment
Principal Investigator:

Brad Ryan
Takshanuk Watershed Council
P. O. Box 1029
Haines, AK 99827

Co-Principal Investigator/ Project Manager:

Brad Ryan, Executive Director
Takshanuk Watershed Council
PO Box 1029
Haines, AK 99827
Phone: (907) 766-3542
Email: brad.ryan@takshanuk.org

Total Funding: \$29951
Congressionally Designated: No
Project Period: Start: 07/01/10 End: 06/30/11

Project Objectives:

The primary objective of this project is to find and protect all known and unknown salmon habitat in the Upper Chilkoot Valley.

Preliminary Synopsis:

This project analyzed the location and patterns of salmonid species in the Upper Chilkoot Valley, one of two major watersheds supporting subsistence fisheries in the Haines area. The work continued previous assessment work by the Takshanuk Watershed Council (TWC) that focused on the lower portion of the Chilkoot Valley; this project will expand the geographic scope of the work and complete mapping of the Anadromous Waters Catalog (AWC) in the valley. *This project expands on the cataloging and characterization work begun in AKSSF projects 45825 and 45959.*

Final Synopsis:

This project identified the upper extent of anadromous water of the Chilkoot River and its tributaries. This work continued previous assessment work by TWC that focused on the lower portion of the Chilkoot Valley. Field technicians for TWC walked all accessible tributaries and set minnow traps and used dip nets to determine the fish species that use these waters. The extent of fish habitat was determined to be 9 miles upriver of the north end of Chilkoot Lake 0.3 miles past a major fork that ended in a 200+ foot waterfall of one fork and a chasm with step pool drops in excess of 20 feet in the other. From these points downstream approximately 1 mile only Dolly Vardens were captured. Continuing down from this point (8 miles upriver of Chilkoot Lake), juvenile Coho salmon were found in the Chilkoot River and in most tributaries.

Project Activities and Results:

Objective 1: Complete mapping of wetlands and the mainstem and tributaries of the Chilkoot River from the north end of Chilkoot Lake to the northern end of fish habitat:

All accessible tributaries and wetlands to the Chilkoot River were mapped. Access to these places were mostly on foot with multiple backpacking trips up the “glory hole” road that runs up the West side of the river. To access the upper reaches and tributaries, a helicopter was contracted to drop field crews for 5 days to complete fish trapping and mapping. Accessibility was only denied by high water levels of the Chilkoot River for crossing to access streams on the east side of the river. Later on in the project Alpaca Pack Rafts were used to access some of these sites but time limited a chance to access all of these streams.

Objective 2: Complete mapping of fish distribution throughout the upper Chilkoot Valley.

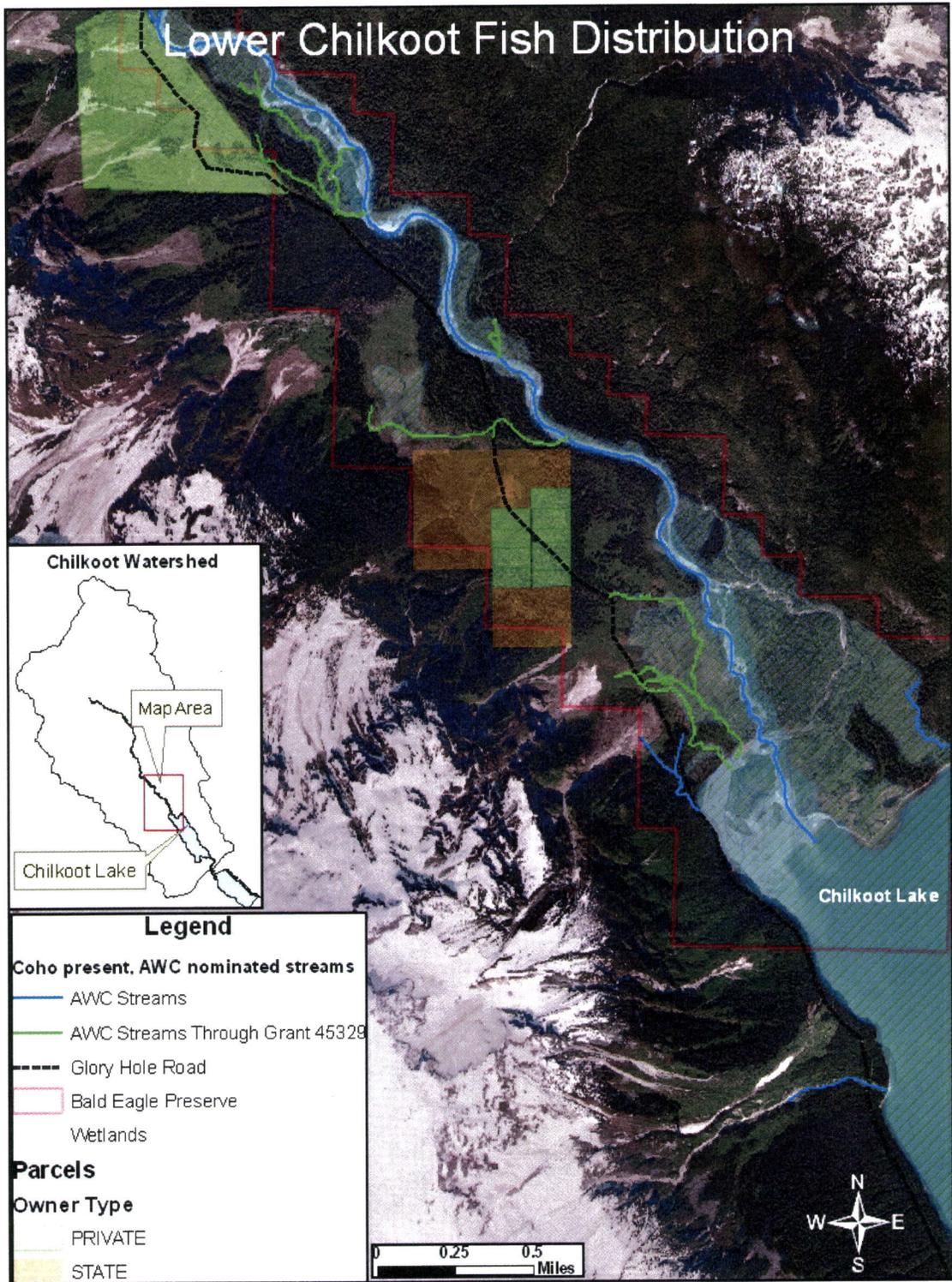
All accessible tributaries and wetlands that were mapped were also trapped for juvenile fish. A concerted effort was taken to access these streams. Multiple backpacking trips were taken and a helicopter was used to gain access to the upper most fish bearing streams. Fish distribution maps are attached.

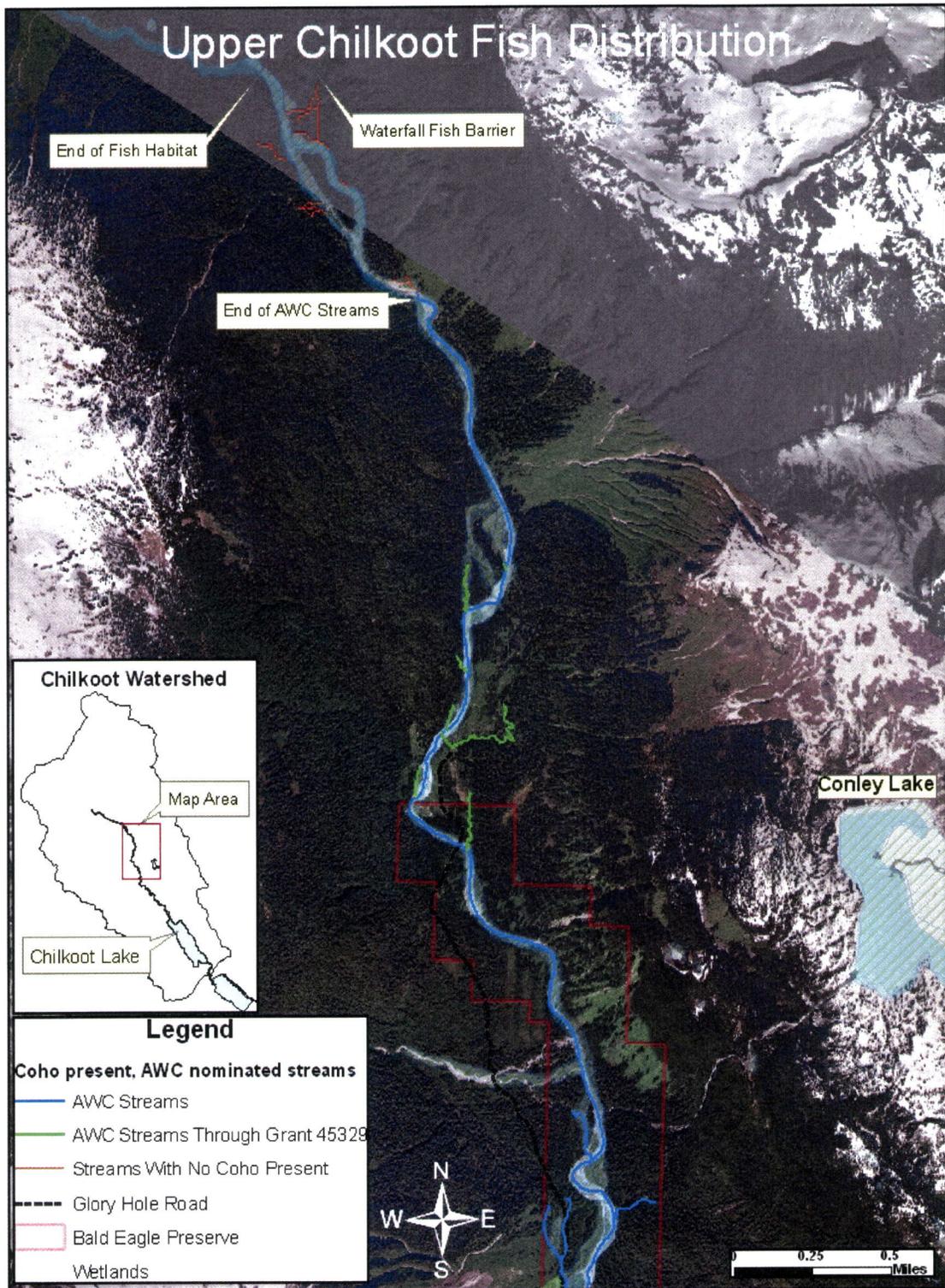
Objective 3: Characterization of stream reaches to add to the baseline data for a GIS model in predicting anadromous waters.

Many of the same streams that were mapped and trapped were also characterized in accordance to the Alaska Department of Fish and Game Sport Fish Region I Stream Survey Guide. The GIS model this data was going to be used for has been deemed infeasible at this time. More research and expertise would be needed to pick this side project up again.

Reports and Other Products:

The primary product of this project is the listing of anadromous streams in the AWC. In addition, TWC has created GIS maps of fish distribution of the Upper Chilkoot River along with significant points of interest.





14	59.42363639	-136.30276300	GPS	Glacier Creek	8/9/2011	Jeremy C Taylor, Daniel J Schultz	Minnow Trap	Dolly Varden	Juvenile	60	1	length range 60-70mm
15	59.4236717	-136.30261192	GPS	Glacier Creek	8/9/2011	Jeremy C Taylor, Daniel J Schultz	Minnow Trap	Dolly Varden	Juvenile	60	2	
16	59.4236717	-136.30261192	GPS	Glacier Creek	8/9/2011	Jeremy C Taylor, Daniel J Schultz	Minnow Trap	Dolly Varden	Juvenile	70	2	Length range 70-80mm
17	59.41761844	-136.30116709	GPS	Glacier Creek	8/9/2011	Jeremy C Taylor, Daniel J Schultz	Minnow Trap	no fish collected or checked				
18	59.41671512	-136.30402365	GPS	Glacier Creek	8/9/2011	Jeremy C Taylor, Daniel J Schultz	Minnow Trap	Dolly Varden	Juvenile	70		