



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

Nomination Form  
Anadromous Waters Catalog

*3* *WA*

Region Southeast USGS Quad(s) Craig A-2  
 Anadromous Waters Catalog Number of Waterway 103-21-10175  
 Name of Waterway Keete Inlet Unnamed Stream 1 USGS Name \_\_\_\_\_ Local Name \_\_\_\_\_  
 Addition  Deletion  Correction  Backup Information

For Office Use

Nomination # <u>14-507</u>	<u>[Signature]</u> Fisheries Scientist	<u>4/25/14</u> Date
Revision Year: _____	<u>[Signature]</u> Habitat Operations Manager	<u>4/25/14</u> Date
Revision to: Atlas _____ Catalog _____ Both _____	<u>[Signature]</u> AWC Project Biologist	<u>3/28/14</u> Date
Revision Code: <u>C-9, D-1, 2-9</u>	<u>[Signature]</u> Cartographer	<u>5/19/14</u> Date

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Coho salmon <i>(11)</i>	July 18, 2013		X	X	X
Dolly Varden	July 18, 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:

See attached supplemental information.  
 This application was prepared by Cathy Needham, who may be reached at (907)723-4436 or cathy@kaienvironmental.com.  
*Update hydrography, reposition pts, shorten stream  
 Add barrier Only one coho salmon observed*

Name of Observer (please print): Tony Sanderson  
 Signature: [Signature]  
 Agency: Hydaburg Cooperative Association  
 Address: P.O. Box 349  
Hydaburg, Alaska 99922

Date: 1-9-14  
**ALASKA DEPT. OF FISH & GAME**

**JAN 10 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: \_\_\_\_\_ Revision \_\_\_\_\_

## Supplemental information for Keete Inlet Stream 1

Four baited minnow traps were soaked for 2 hours in Stream 1 in Keete Inlet on July 18, 2013. The attached figure shows the trap locations. Stream 1 is listed in the Anadromous Waters Catalog (103-21-10175) for the presence of pink salmon. This current nomination is to include 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.

Stream mapping and survey data was collected by the Hydaburg Cooperative Association Stream Survey crew for Stream 1 on July 19, 2013. Data was taken on two reaches (reach numbers in the tables correspond to a master dataset; see attached figure for locations). The stream survey data are in the following table:

	<b>Reach 1</b>	<b>Reach 2</b>
<b>Average stream gradient</b>	5.2	26
<b>Average bankfull width</b>	6.5	4.1
<b>Average channel bed width</b>	0.54	1.25
<b>Average incision depth</b>	3.76	4.23
<b>Bank composition</b>	Organic	Bedrock
<b>Dominant substrate</b>	Very coarse gravel	Bedrock
<b>Sub-dominant substrate</b>	Small cobble and Course gravel	Large and Small boulder
<b>Large wood count</b>	58	42
<b>Key wood count</b>	25	13
<b>Macro-pool count</b>	10	22

Reach 1 was classified as MMS (moderate gradient mixed control) and Reach 2 was classified as HCL (high gradient contained with low incision depth). At the top of Reach 1, the survey crew documented a waterfall with a barrier height of 2 meters, a pool depth of 1.73 meters and a 45% gradient. No anadromous fish were trapped above Reach 1, however Dolly Varden were found in traps. Given Reach 2 was classified as HCL with an average stream gradient of 26%, it is unlikely that coho salmon rear above the barrier documented in Reach 1. There was also a barrier waterfall documented at the top of Reach 2. While no barrier height or pool depth was measured, the gradient of the barrier was 34.4%. The following pictures show the two barriers documented on Stream 1.

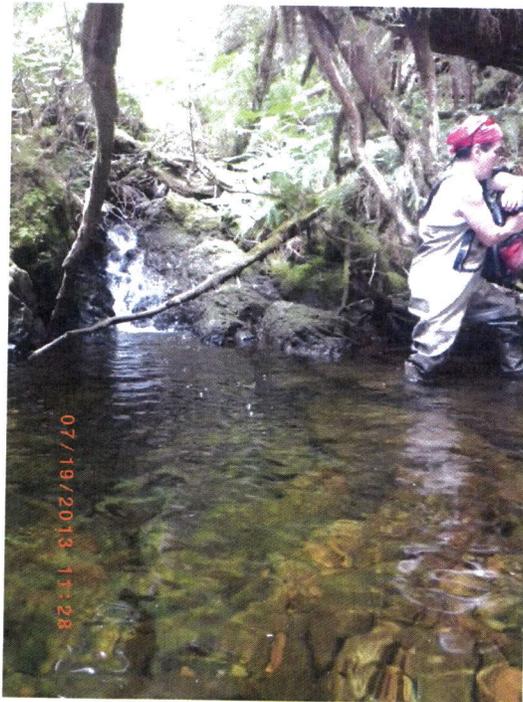


Photo 1. Waterfall documented in Reach 1 of Stream 1 in Keete Inlet.

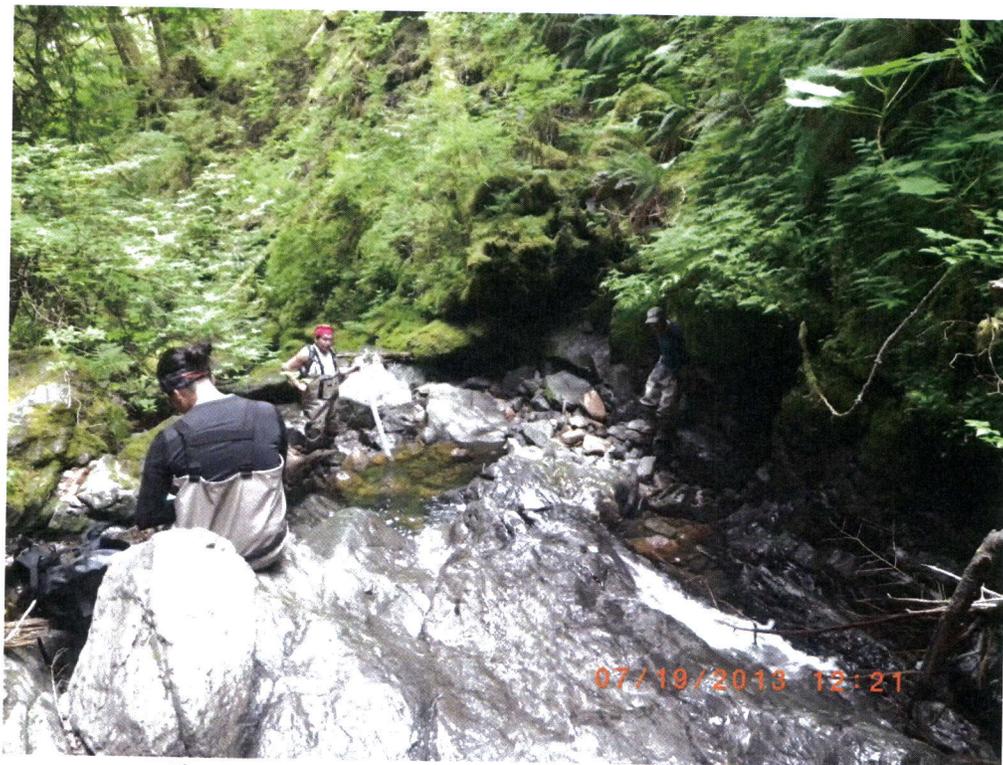
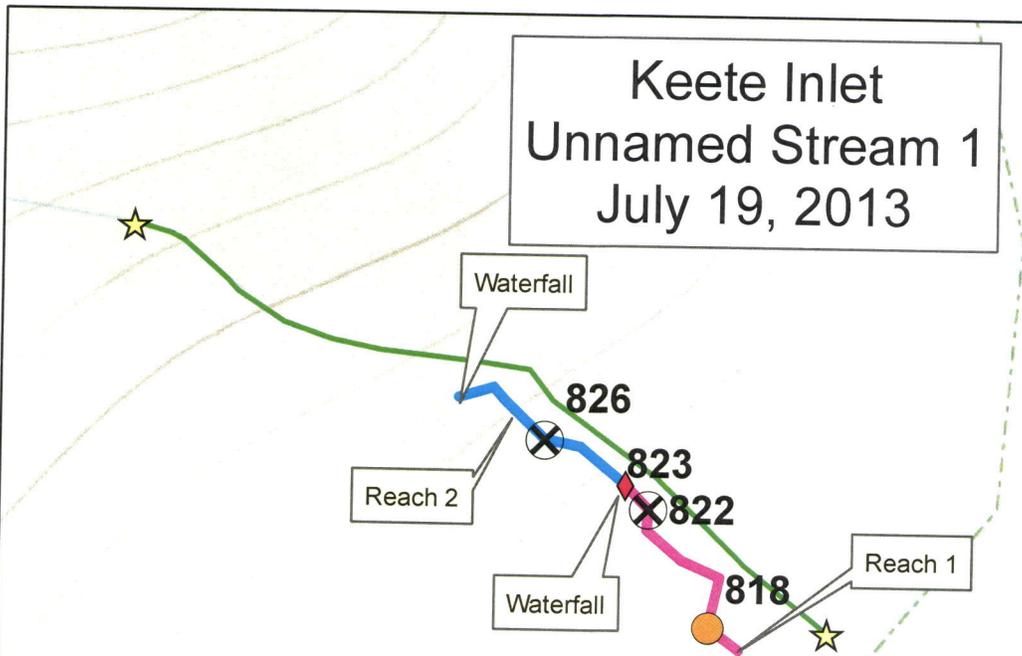


Photo 2. Waterfall documented in Reach 2 of Stream 1 in Keete Inlet.

# Keete Inlet Unnamed Stream 1 July 19, 2013



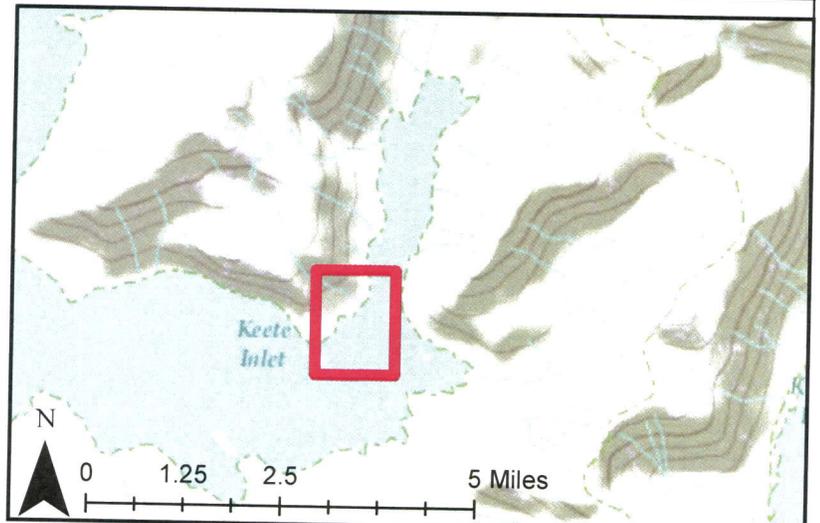
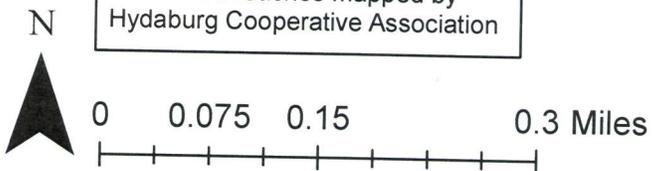
Keete Inlet



## Legend

- ★ AWC Points
  - AWC Mapped Reaches
- ### Fish Traps
- Coho Salmon
  - ◆ Dolly Varden
  - ⊗ No Fish

Numbered reaches mapped by  
Hydaburg Cooperative Association



**ADF&G permit no. SF2013-208**

**Summary report of fish collection activity.**

**The area biologist was contacted on: 3:07pm on 5/29/13**

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	Length method	Disposition (1)
818	55.06053996	-132.498921	WGS84	GPS	Keete	7/18/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	92	fork	measured and released
822	55.06120901	-132.499527	WGS84	GPS	Keete	7/18/2013	Tony Sanderson	Minnow Trap	no fish collected	or observed			
823	55.06134303	-132.499761	WGS84	GPS	Keete	7/18/2013	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	148	fork	measured and released
823	55.06134303	-132.499761	WGS84	GPS	Keete	7/18/2013	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	122	fork	measured and released
823	55.06134303	-132.499761	WGS84	GPS	Keete	7/18/2013	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	170	fork	measured and released
823	55.06134303	-132.499761	WGS84	GPS	Keete	7/18/2013	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	140	fork	measured and released
826	55.06160002	-132.500568	WGS84	GPS	Keete	7/18/2013	Tony Sanderson	Minnow Trap	no fish collected	or observed			

update hydro, reposition pts, shorten stream, & add barrier  
to 103-21-10175, use noms\needham\keete\_arc.shp for hydro

