



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

Nomination Form
Anadromous Waters Catalog

Region USGS Quad(s)
 Anadromous Waters Catalog Number of Waterway
 Name of Waterway USGS Name Local Name
 Addition Deletion Correction Backup Information

For Office Use

Nomination # _____	_____	_____
Revision Year: _____	Fisheries Scientist	Date _____
Revision to: Atlas _____ Catalog _____	Habitat Operations Manager	Date _____
Both _____	AWC Project Biologist	Date _____
Revision Code: _____	Cartographer	Date _____

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Pink Salmon	August 29, 2014	X		X	<input checked="" type="checkbox"/>
Coho Salmon	August 29, 2014	X		X	<input checked="" type="checkbox"/>
					<input 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:
 See attached supplemental information.
 This application was prepared by Cathy Needham who may be reached at 907-723-4436 or cathy@kaienvironmental.com.

Name of Observer (please print): Robina Moyer
 Signature: Date: 10/7/14
 Agency: Kai Environmental Consulting Services, LLC
 Address: 9000 Glacier Hwy, Suite 302
Juneau, AK 99801

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 _____
 02/08

Supplemental Information for Karta River – Flagstaff Creek Adults

On August 29, 2014 an adult foot count survey was completed in Flagstaff Creek (AWC 102-60-10870-2007) by a stream crew from the Organized Village of Kasaan. The crew walked upstream and counted dead and live adult salmon in and out of the water. From the mouth of the stream to GPS point 007 there were 989 live adult pink salmon, 150 pink salmon carcasses and 9 live coho were counted. A large debris jam, approximately 5 meters high (shown below) is at GPS point 007. The crew continued to survey approximately 0.45 miles above this jam and documented no additional adult salmon. It is believed that this debris jam is a barrier to adult fish passage.

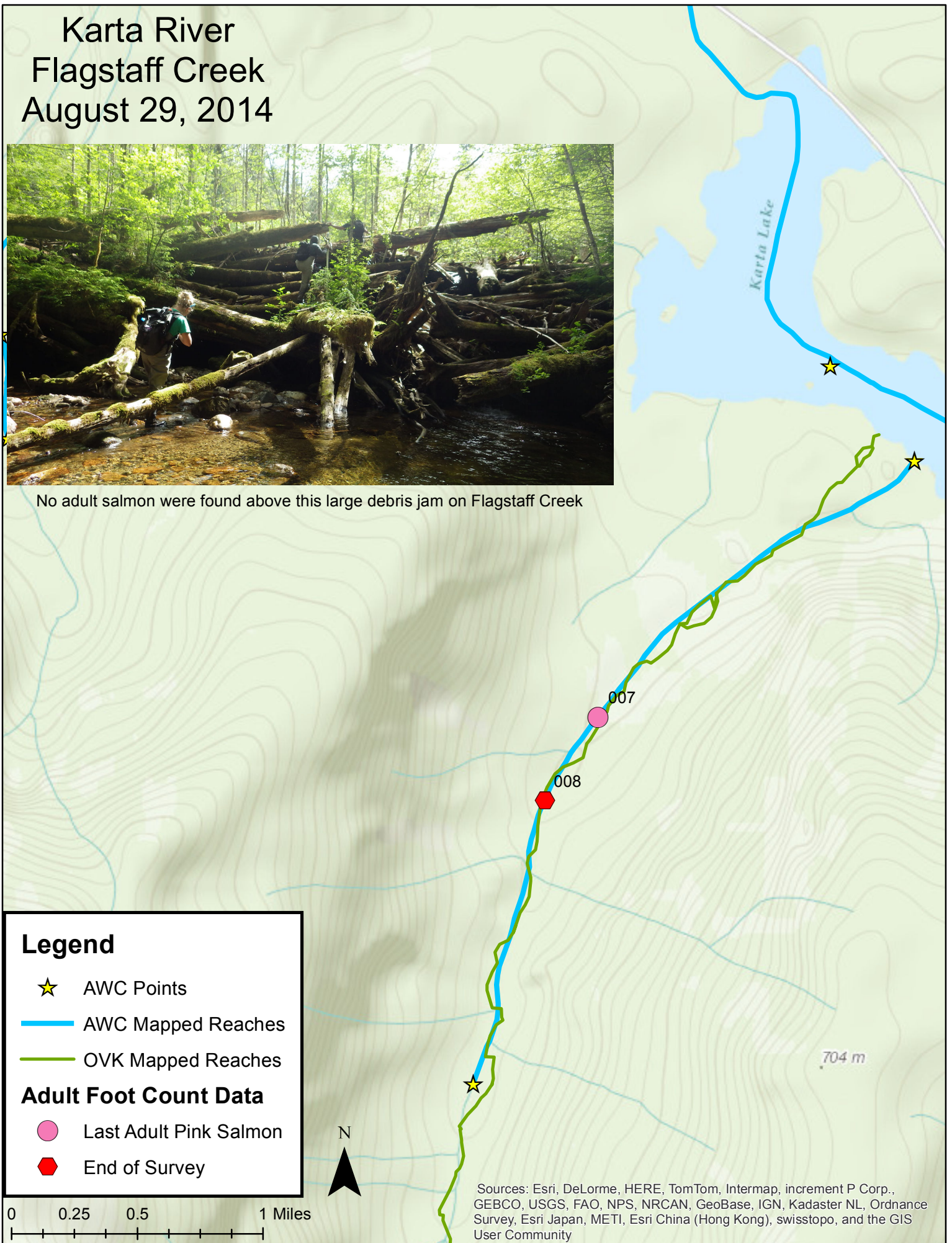


Photo 1: Large debris jam on Flagstaff Creek, believed to be a barrier to adult fish passage

Karta River Flagstaff Creek August 29, 2014



No adult salmon were found above this large debris jam on Flagstaff Creek



Legend

- ★ AWC Points
- AWC Mapped Reaches
- OVK Mapped Reaches

Adult Foot Count Data

- Last Adult Pink Salmon
- ⬠ End of Survey

0 0.25 0.5 1 Miles



Sources: Esri, DeLorme, HERE, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

FISH ESCAPEMENT COUNTS

Organized Village of Kasaan Stream Habitat Surveys

Fish Habitat permit: SF2014-130 (various stream)

Date of Survey	Watershed	Stream/Tributary	Survey Start GPS	Survey End GPS Point
8/29/2014	Karta	Flagstaff	7	8

Index Area	Pink Salmon		Chum Salmon		Coho Salmon		Sockeye Salmon		Other	
	Live	Carcass	Live	Carcass	Live	Carcass	Live	Carcass	Live	Carcass
Mount										
Intertidal										
In Stream	739	121			9					
Riparian	250	29								
TOTAL NUMBERS	989	150			9					
Upper GPS Point	8	8			8					

Observers	Wind	Weather	Water	Visibility	Bottom	Additional Comments
Josh Peele, Jeff Bell	light	rain	mid-level	clear		

Supplemental Information for Paul Young Creek – Northern Tributary 2

In the summer of 2014 a stream crew from the Organized Village of Kasaan (OVK) mapped habitat and trapped minnows in Paul Young Creek and its tributaries. Stream mapping and survey data was taken for two reaches on Tributary 2 to Paul Young Creek. Reach data is included in this packet and the corresponding locations are shown on the attached figure.

On June 26, 2014 one baited minnow trap was set at the mouth of the unnamed tributary on the northern side Paul Young Creek (AWC 102-60-10930-2020) at GPS point 334 and soaked for seven hours. The trap caught two coho salmon (75mm and 80mm) and six sculpin which were not measured. On August 28, 2014 two minnow traps were set further upstream in this tributary at GPS points 971 and 1001; these traps were soaked for 3-4 hours. The trap at location 971 caught one coho salmon (80mm). The trap at location 1001 caught three cutthroat trout (70mm, 100mm, 130mm), five Dolly Varden (80mm, 90mm, 110mm, 120mm) and five coho salmon (55mm, 70mm, 70mm, 75mm, 90mm). It is unknown if the Dolly Varden caught in this trap are anadromous. An ADF&G fish trapping permit data sheet is attached to this nomination packet which includes further details on fish trapping in Paul Young Creek. The attached map shows trap locations.

Traps were not set above GPS location 1001 due to time limitations on August 28th. GPS point 1017 represents the upper extent of stream mapping done by the field crew. The upper extent of the tributary became a single, narrow channel which passed through a section of grasses and sedges before changing back into a wooded area. Although no traps were set minnows were observed within 100 meters of the top of the mapped area. It is not believed that the crew reached the upper extent of fish habitat. The location of trap 1001 is approximately 0.5 miles above the currently mapped stream layer in the AWC.



Photo 1: Upper extent of mapped habitat, minnows were observed in the reach shown above.

Reach Data for Paul Young Creek Unnamed North Tributary 2
(AWC 102-60-10930-2020)

	Reach 8	Reach 9
Average stream gradient	1.73	3.45
Average bankfull width	6.8	1.2
Average channel bed width	2.9	2.3
Average incision depth	0.5	0.55
Bank composition	organic	organic
Dominant substrate	small cobble	organic
Sub-dominate substrate	very coarse gravel	organic
Large wood count	76	25
Key wood count	53	0
Macro-pool count	61	3

Paul Young Creek

June 26 and August 28, 2014

Legend

- ★ AWC Points
- AWC Mapped Reaches

OVK Mapped Reaches

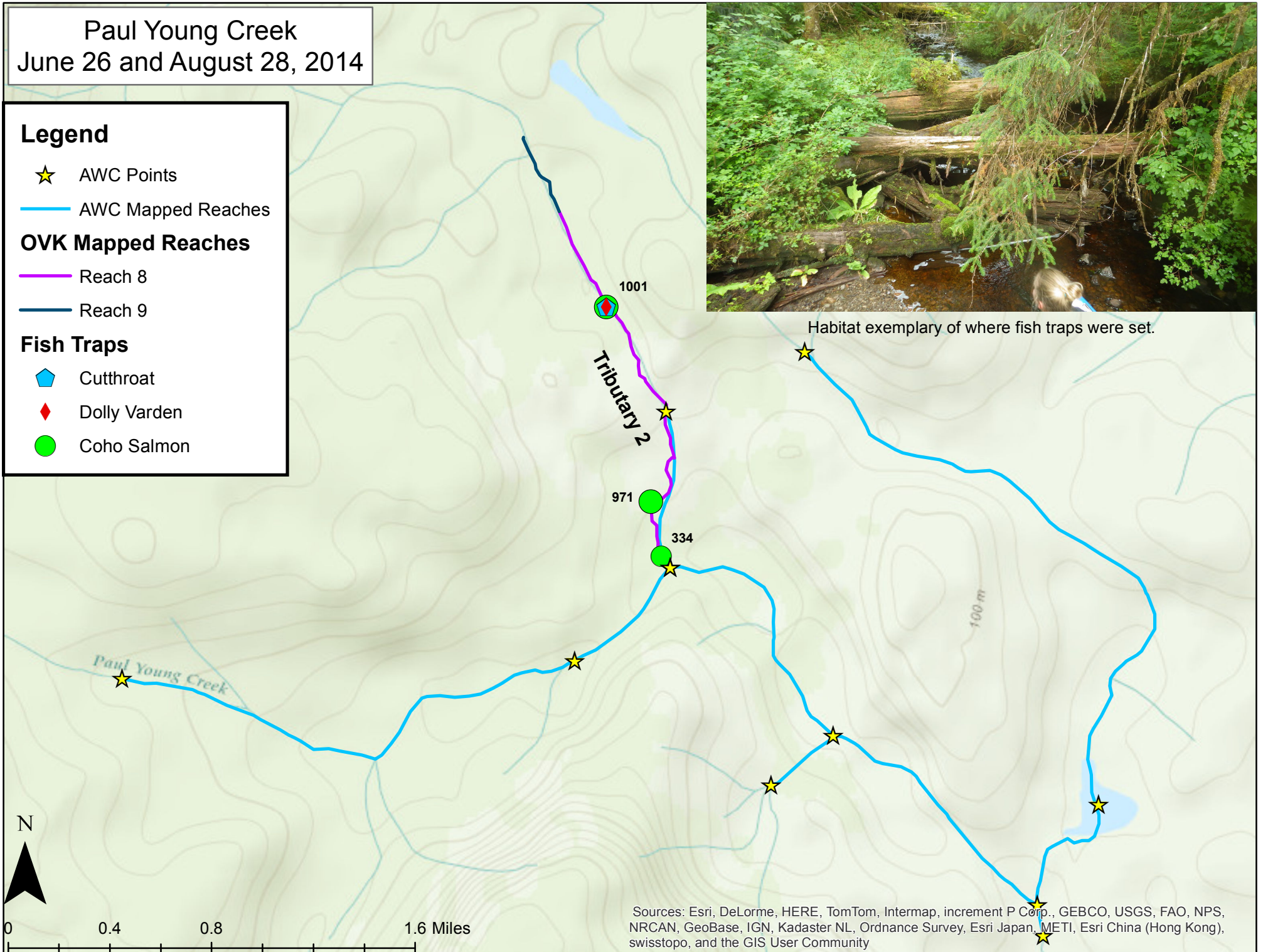
- Reach 8
- Reach 9

Fish Traps

- ⬠ Cutthroat
- ◆ Dolly Varden
- Coho Salmon



Habitat exemplary of where fish traps were set.



Sources: Esri, DeLorme, HERE, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

ADF&G permit no. SF2014-130**Summary report of fish collection activity.****The area biologist was contacted on: 6:43am/May 30, 2014**

Location ID (optional)	Latitude	Longitude	Datum	Coordinate determination method	Name of water body	Date	Fish collection method	Species	Life stage	Length (mm) No estimates/ranges	Length method	Disposition (1)
334	55.603161	-132.600711	WGS84	GPS	Paul Young	6/26/2014	Minnow Trap	coho salmon	juvenile	75	Fork	measured and released
334	55.603161	-132.600711	WGS84	GPS	Paul Young	6/26/2014	Minnow Trap	sculpin-unspecified				ID'ed and released
334	55.603161	-132.600711	WGS84	GPS	Paul Young	6/26/2014	Minnow Trap	sculpin-unspecified				ID'ed and released
334	55.603161	-132.600711	WGS84	GPS	Paul Young	6/26/2014	Minnow Trap	coho salmon	juvenile	80	Fork	measured and released
334	55.603161	-132.600711	WGS84	GPS	Paul Young	6/26/2014	Minnow Trap	sculpin-unspecified				ID'ed and released
334	55.603161	-132.600711	WGS84	GPS	Paul Young	6/26/2014	Minnow Trap	sculpin-unspecified				ID'ed and released
334	55.603161	-132.600711	WGS84	GPS	Paul Young	6/26/2014	Minnow Trap	sculpin-unspecified				ID'ed and released
334	55.603161	-132.600711	WGS84	GPS	Paul Young	6/26/2014	Minnow Trap	sculpin-unspecified				ID'ed and released
971	55.604908	-132.601294	WGS84	GPS	Paul Young	8/28/2014	Minnow Trap	coho salmon	juvenile	80	Fork	measured and released
1001	55.611162	-132.603826	WGS84	GPS	Paul Young	8/28/2014	Minnow Trap	cutthroat trout	juvenile	130	Fork	measured and released
1001	55.611162	-132.603826	WGS84	GPS	Paul Young	8/28/2014	Minnow Trap	Dolly Varden	juvenile	90	Fork	measured and released
1001	55.611162	-132.603826	WGS84	GPS	Paul Young	8/28/2014	Minnow Trap	Dolly Varden	juvenile	120	Fork	measured and released
1001	55.611162	-132.603826	WGS84	GPS	Paul Young	8/28/2014	Minnow Trap	coho salmon	juvenile	90	Fork	measured and released
1001	55.611162	-132.603826	WGS84	GPS	Paul Young	8/28/2014	Minnow Trap	Dolly Varden	juvenile	80	Fork	measured and released
1001	55.611162	-132.603826	WGS84	GPS	Paul Young	8/28/2014	Minnow Trap	Dolly Varden	juvenile			ID'ed and released
1001	55.611162	-132.603826	WGS84	GPS	Paul Young	8/28/2014	Minnow Trap	coho salmon	juvenile	70	Fork	measured and released
1001	55.611162	-132.603826	WGS84	GPS	Paul Young	8/28/2014	Minnow Trap	coho salmon	juvenile	75	Fork	measured and released
1001	55.611162	-132.603826	WGS84	GPS	Paul Young	8/28/2014	Minnow Trap	coho salmon	juvenile	70	Fork	measured and released
1001	55.611162	-132.603826	WGS84	GPS	Paul Young	8/28/2014	Minnow Trap	coho salmon	juvenile	55	Fork	measured and released
1001	55.611162	-132.603826	WGS84	GPS	Paul Young	8/28/2014	Minnow Trap	cutthroat trout	juvenile	70	Fork	measured and released
1001	55.611162	-132.603826	WGS84	GPS	Paul Young	8/28/2014	Minnow Trap	cutthroat trout	juvenile	100	Fork	measured and released
1001	55.611162	-132.603826	WGS84	GPS	Paul Young	8/28/2014	Minnow Trap	Dolly Varden	juvenile	110	Fork	measured and released



Region Southeast USGS Quad(s) Craig C-2
 Anadromous Waters Catalog Number of Waterway 102-60-10930-2020
 Name of Waterway Unnamed Northern Tributary 2 to Paul Young (see map) USGS Name Local Name
 Addition Deletion Correction Backup Information

For Office Use

Nomination # _____	_____	_____
Revision Year: _____	Fisheries Scientist	Date _____
Revision to: Atlas _____ Catalog _____	_____	_____
Both _____	Habitat Operations Manager	Date _____
Revision Code: _____	_____	_____
	AWC Project Biologist	Date _____
	_____	_____
	Cartographer	Date _____

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Pink Salmon	August 27-28, 2014	x		x	<input checked="" type="checkbox"/>
					<input type="checkbox"/>
					<input 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:
 See attached supplemental information.
 This application was prepared by Cathy Needham who may be reached at 907-723-4436 or cathy@kaienvironmental.com.

Name of Observer (please print): Robina Moyer
 Signature: Date: 10/7/14
 Agency: Kai Environmental Consulting Services, LLC
 Address: 9000 Glacier Hwy, Suite 302
Juneau, AK 99801

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 _____
 02/08

Supplemental Information for Paul Young Creek – Northern Tributary 2 Adults

On August 28, 2014 adult salmon foot count surveys were completed on Paul Young Creek by a crew from the Organized Village of Kasaan. During these surveys the crew walked upstream and counted dead and alive adult salmon in and out of the water. In an unnamed northern tributary to main channel of Paul Young Creek (AWC 102-60-10930-2020) 25 live adult pink salmon and 15 carcasses were seen from the mouth of the tributary to GPS point 979 (see map for details). The crew continued their survey to GPS Point 1017; no more adult salmon were recorded and no significant barriers to fish passage were observed.



Photo 1: Salmon carcass at the confluence of the northern tributary and Paul Young Creek

Paul Young Creek
Adult Foot Counts
August 28, 2014



Adult pink salmon at the confluence of Paul Young Creek and the northern tributary



Legend

- ★ AWC Points
- AWC Mapped Reaches
- Adult Foot Count Survey Area

Adult Foot Count Data

- Last Adult Pink Salmon Observed
- ⬠ Top of Survey

0 0.425 0.85 1.7 Miles

Sources: Esri, DeLorme, HERE, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

FISH ESCAPEMENT COUNTS

Organized Village of Kasaan Stream Habitat Surveys

Fish Habitat permit: SF2014-130 (various stream)

Date of Survey	Watershed	Stream/Tributary	Survey Start GPS	Survey End GPS Point
8/28/2014	Paul Young	North Trib	961	1017

Index Area	Pink Salmon		Chum Salmon		Coho Salmon		Sockeye Salmon		Other	
	Live	Carcass	Live	Carcass	Live	Carcass	Live	Carcass	Live	Carcass
Mount										
Intertidal										
In Stream	25	8								
Riparian		7								
TOTAL NUMBERS	25	15								
Upper GPS Point	979	969								

Observers	Wind	Weather	Water	Visibility	Bottom	Additional Comments
Josh Peele, Robina Moyer	light	overcast, light rain	mid-level	clear	gravel	



Region Southeast USGS Quad(s) Craig C-2

Anadromous Waters Catalog Number of Waterway 102-60-10930-2013

Name of Waterway Unnamed Southern Tributary 1 to Paul Young (see map) USGS Name Local Name
 Addition Deletion Correction Backup Information

For Office Use

Nomination # _____	_____	_____
Revision Year: _____	Fisheries Scientist	Date _____
Revision to: Atlas _____ Catalog _____	Habitat Operations Manager	Date _____
Both _____	AWC Project Biologist	Date _____
Revision Code: _____	Cartographer	Date _____

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Pink Salmon	August 27-28, 2014	x		x	<input checked="" type="checkbox"/>
					<input type="checkbox"/>
					<input 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:
 See attached supplemental information.
 This application was prepared by Cathy Needham who may be reached at 907-723-4436 or cathy@kaienvironmental.com.

Name of Observer (please print): Robina Moyer
 Signature: *[Signature]* Date: 10/7/14
 Agency: Kai Environmental Consulting Services, LLC
 Address: 9000 Glacier Hwy, Suite 302
Juneau, AK 99801

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 _____
 02/08

Supplemental Information for Paul Young Creek – Unnamed Southern Tributary 1

On August 27, 2014 adult salmon foot count surveys were completed on Paul Young Creek by a crew from the Organized Village of Kasaan. During these surveys the crew walked upstream and counted dead and live adult salmon in and out of the water. On a southern tributary to the main channel of Paul Young Creek (AWC 102-60-10930-2013) 12 live adult pink salmon and 8 carcasses of pink salmon were seen from the mouth of the tributary to GPS point 927 (see map for details). The last adult salmon were seen immediately below an approximately 3.5 meter high rock cascade (shown below) which is believed to be a potential barrier to fish passage. The crew continued their survey for approximately 0.65 miles upstream, until GPS Point 958, and did not observe any additional adult salmon.

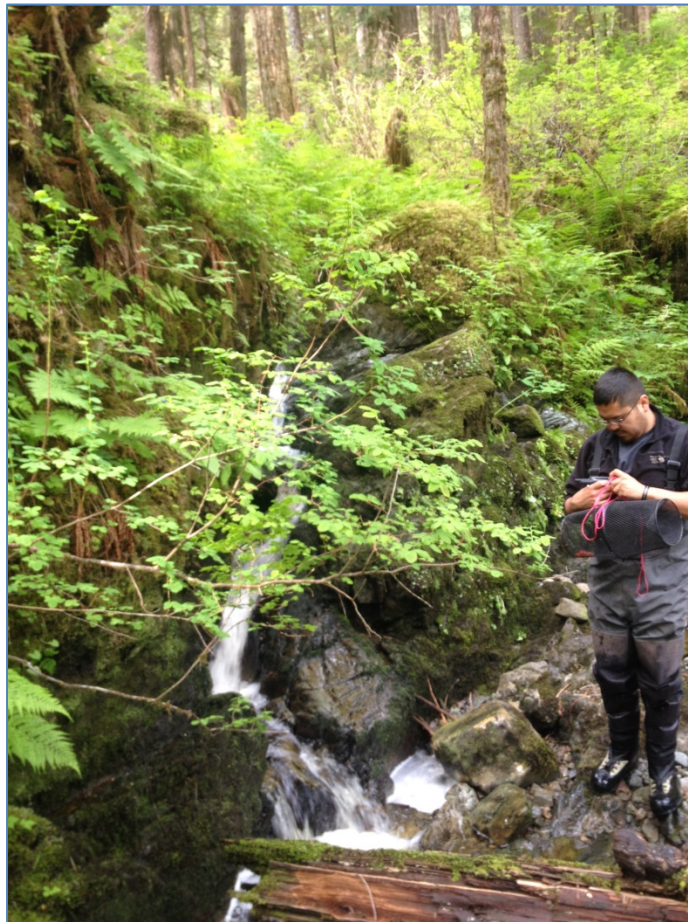
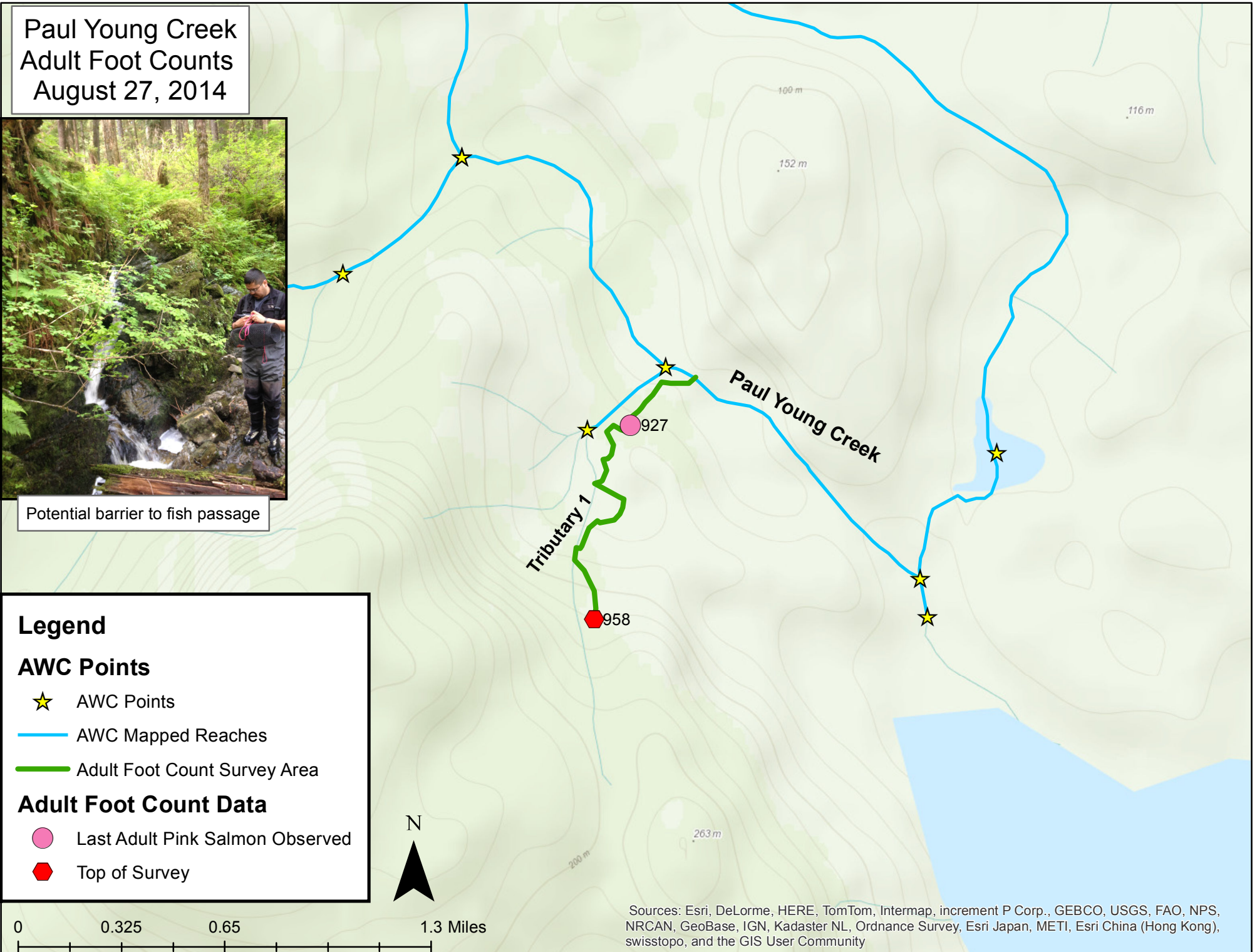


Photo 1: Cascade on southern trib to Paul Young Creek, believed to be a potential barrier to fish passage

Paul Young Creek Adult Foot Counts August 27, 2014



Potential barrier to fish passage



FISH ESCAPEMENT COUNTS

Organized Village of Kasaan Stream Habitat Surveys

Fish Habitat permit: SF2014-130 (various stream)

Date of Survey	Watershed	Stream/Tributary	Survey Start GPS	Survey End GPS Point
8/27/2014	Paul Young	Experimental/South	960	958

Index Area	Pink Salmon		Chum Salmon		Coho Salmon		Sockeye Salmon		Other	
	Live	Carcass	Live	Carcass	Live	Carcass	Live	Carcass	Live	Carcass
Mount										
Intertidal										
In Stream	12									
Riparian		8								
TOTAL NUMBERS	12	8								
Upper GPS Point	927	927								

Observers	Wind	Weather	Water	Visibility	Bottom	Additional Comments
Josh Peele, Robina Moyer	none	partially sunny	mid-level	clear	gravel and bedrock	



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

Nomination Form
Anadromous Waters Catalog

Region USGS Quad(s)
 Anadromous Waters Catalog Number of Waterway
 Name of Waterway USGS Name Local Name
 Addition Deletion Correction Backup Information

For Office Use

Nomination # _____ Revision Year: _____ Revision to: Atlas _____ Catalog _____ Both _____ Revision Code: _____	_____ Fisheries Scientist	_____ Date
	_____ Habitat Operations Manager	_____ Date
	_____ AWC Project Biologist	_____ Date
	_____ Cartographer	_____ Date

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Pink Salmon	August 27-28, 2014	X		X	<input checked="" type="checkbox"/>
Coho Salmon	August 27-28, 2014	X		X	<input checked="" type="checkbox"/>
					<input 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.

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Signature of Area Biologist: _____ Date: _____ Revision _____
 02/08

Supplemental Information for Paul Young Creek

On August 27-28, 2014 adult salmon foot count surveys were completed on Paul Young Creek by a crew from the Organized Village of Kasaan. During these surveys the crew walked upstream and counted dead and alive adult salmon in and out of the water. On the main channel of Paul Young Creek 1,784 live adult pink, 157 pink salmon carcasses, 122 live coho salmon and seven coho carcasses were seen from the mouth of the stream to GPS point 005 (see map for details). During earlier habitat mapping which took place in July the crew was unable to get past GPS location 387, approximately 415 meters upstream from GPS 005, due to a mid-sized rock cascade and a 2.0 meter deep pool surrounded by steep banks. In August the crew was able to get above this barrier, but encountered another barrier approximately 250 meters further upstream at GPS point 006. No minnow trapping was done above these barriers in July because the crew could not get above the cascade at GPS point 387. Although the crew was able to get above GPS point 387 in August they did not have trapping equipment with them. Given the size of the barriers (see attached photos) and the lack of adult salmon, it is believed that they are a potential barrier to fish passage for both adults and juveniles.

The last observation of adult pink and coho salmon was approximately 1.00 miles above the currently mapped point in the AWC.



Photo 1: Rock cascade at GPS point 387

Paul Young Creek Adult Foot Counts August 27-28, 2014



Potential barrier to fish passage on Paul Young Creek

Legend

- ★ AWC Points
- AWC Mapped Reaches
- Adult Foot Count Survey Area

Adult Foot Count Data

- Top of Survey
- Last Adult Salmon Observed
- ✕ Potential Barrier to Fish Passage



0 0.5 1 2 Miles

Sources: Esri, DeLorme, HERE, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

FISH ESCAPEMENT COUNTS

Organized Village of Kasaan Stream Habitat Surveys

Fish Habitat permit: SF2014-130 (various stream)

Date of Survey	Watershed	Stream/Tributary	Survey Start GPS	Survey End GPS Point
8/27/2014	Paul Young	Main channel	3	4

Index Area	Pink Salmon		Chum Salmon		Coho Salmon		Sockeye Salmon		Other	
	Live	Carcass	Live	Carcass	Live	Carcass	Live	Carcass	Live	Carcass
Mount										
Intertidal		10								
In Stream	427	16			33					
Riparian										
TOTAL NUMBERS	427	26			33					
Upper GPS Point	4	4			4					

Observers	Wind	Weather	Water	Visibility	Bottom	Additional Comments
Josh Peele, Jeff Bell, Si Fawcett, Robina Moyer	none	overcast	mid-level	clear	gravel	

FISH ESCAPEMENT COUNTS

Organized Village of Kasaan Stream Habitat Surveys

Fish Habitat permit: SF2014-130 (various stream)

Date of Survey	Watershed	Stream/Tributary	Survey Start GPS	Survey End GPS Point
8/28/2014	Paul Young	Main channel	4	6

Index Area	Pink Salmon		Chum Salmon		Coho Salmon		Sockeye Salmon		Other	
	Live	Carcass	Live	Carcass	Live	Carcass	Live	Carcass	Live	Carcass
Mount										
Intertidal										
In Stream	1357	73			89	7				
Riparian		55								
TOTAL NUMBERS	1357	128			89	7				
Upper GPS Point	5	5			5	5				

Observers	Wind	Weather	Water	Visibility	Bottom	Additional Comments
Jeff Bell, Si Fawcett	light	overcast, light rain	mid-level	clear	gravel and bedrock	



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

Nomination Form
Anadromous Waters Catalog

Region Southeast USGS Quad(s) Craig C-2
 Anadromous Waters Catalog Number of Waterway 102-60-10970-2008
 Name of Waterway Poorman Creek/Label Creek USGS Name Local Name
 Addition Deletion Correction Backup Information

For Office Use

Nomination # _____	_____	_____
Revision Year: _____	Fisheries Scientist	Date _____
Revision to: Atlas _____ Catalog _____	Habitat Operations Manager	Date _____
Both _____	AWC Project Biologist	Date _____
Revision Code: _____	Cartographer	Date _____

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Pink Salmon	August 31, 2014	X		X	<input checked="" type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>

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Signature of Area Biologist: _____ Date: _____ Revision _____
 02/08

Supplemental Information for Poorman Creek

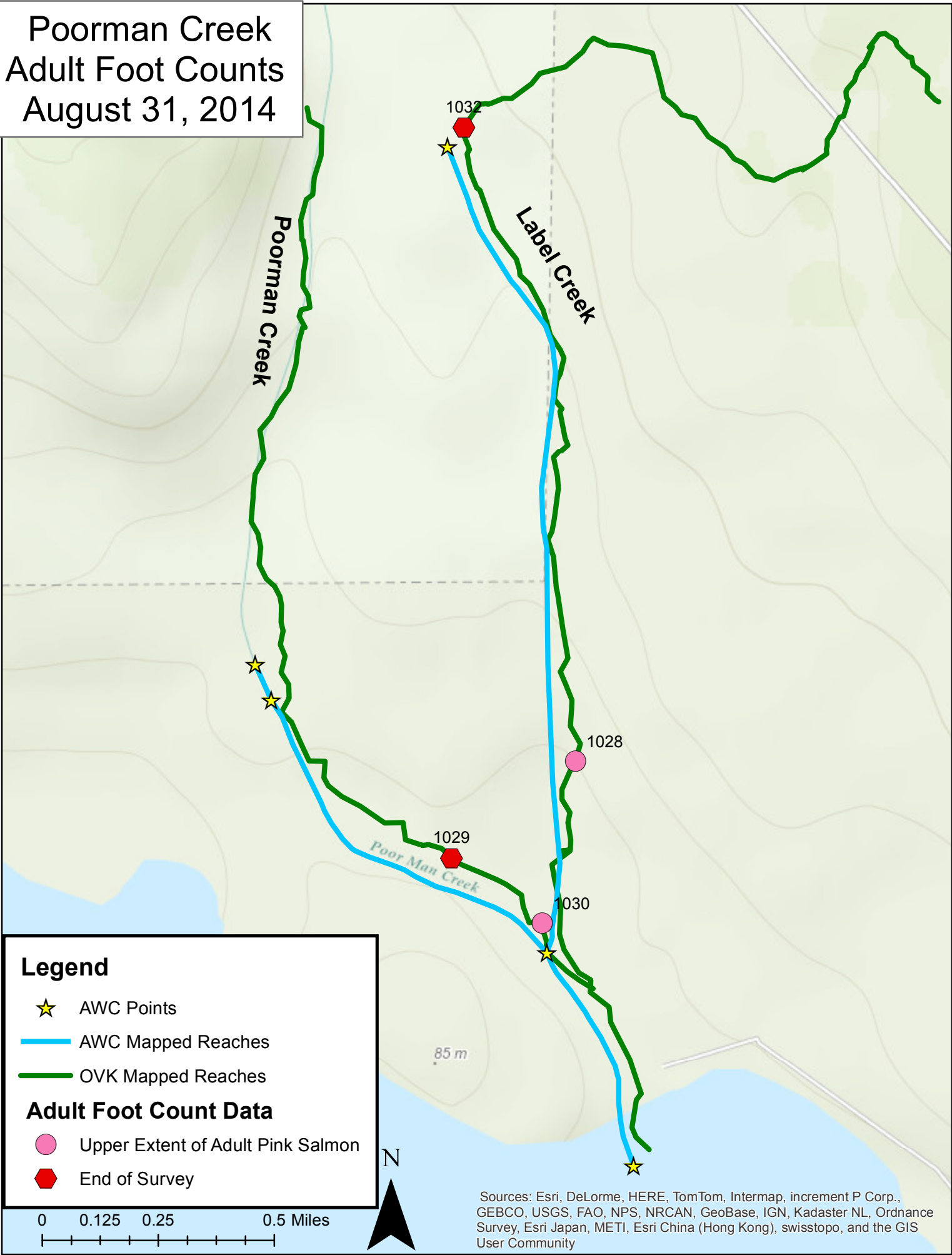
On August 30, 2014 adult salmon foot count surveys were completed on Poorman Creek (AWC 102-60-10970) by a crew from the Organized Village of Kasaan. During these surveys the crew walked upstream from the mouth of the creek and counted dead and alive adult salmon in and out of the water. Six hundred live pink salmon were counted in the intertidal and an additional 651 live salmon were counted in stream between the intertidal and GPS Point 1028, which is located on Label Creek (AWC 102-60-10970-2008) a major tributary to Poorman Creek (see map for details). Three hundred and fifty-eight carcasses were counted between the mouth of the stream and GPS Point 1028. The crew continued the survey upstream to GPS Point 1032 and did not see any more adult salmon. On the main channel of Poorman Creek, between the split from Label Creek and GPS Point 1030 three live adult pink salmon and eight carcasses were seen. The crew continued the survey to GPS Point 1029 and did not see any more adult salmon.

Pink salmon are not currently included in the AWC for Label Creek.



Photo 1: Adult pink salmon habitat near the mouth of Poorman Creek

Poorman Creek Adult Foot Counts August 31, 2014



FISH ESCAPEMENT COUNTS

Organized Village of Kasaan Stream Habitat Surveys

Fish Habitat permit: SF2014-130 (various stream)

Date of Survey	Watershed	Stream/Tributary	Survey Start GPS	Survey End GPS Point
8/31/2014	Poorman	mainchannel mouth to Label Creek	1026	1032

Index Area	Pink Salmon		Chum Salmon		Coho Salmon		Sockeye Salmon		Other	
	Live	Carcass	Live	Carcass	Live	Carcass	Live	Carcass	Live	Carcass
Mount										
Intertidal	600									
In Stream	651	294								
Riparian		64								
TOTAL NUMBERS	1251	358								
Upper GPS Point	1028	1028								

Observers	Wind	Weather	Water	Visibility	Bottom	Additional Comments
Josh Peele, Si Fawcett, Jeff Bell, Robina Moyer	moderate	rain	mid-level	some turbidity	gravel	

FISH ESCAPEMENT COUNTS

Organized Village of Kasaan Stream Habitat Surveys

Fish Habitat permit: SF2014-130 (various stream)

Date of Survey	Watershed	Stream/Tributary	Survey Start GPS	Survey End GPS Point
8/31/2014	Poorman	Mainchannel split	1026	1029

Index Area	Pink Salmon		Chum Salmon		Coho Salmon		Sockeye Salmon		Other	
	Live	Carcass	Live	Carcass	Live	Carcass	Live	Carcass	Live	Carcass
Mount										
Intertidal										
In Stream	2	3								
Riparian	1	5								
TOTAL NUMBERS	3	8								
Upper GPS Point	1030	1030								

Observers	Wind	Weather	Water	Visibility	Bottom	Additional Comments
Josh Peele, Si Fawcett	moderate	rain	mid-level	some turbidity	gravel and organic	



Region Southeast USGS Quad(s) Craig C-2
 Anadromous Waters Catalog Number of Waterway 102-60-10870-2004
 Name of Waterway Unnamed Tributary 2 to Karta River (see map) USGS Name Local Name
 Addition Deletion Correction Backup Information

For Office Use

Nomination # _____	_____	_____
Revision Year: _____	Fisheries Scientist	Date _____
Revision to: Atlas _____ Catalog _____	Habitat Operations Manager	Date _____
Both _____	AWC Project Biologist	Date _____
Revision Code: _____	Cartographer	Date _____

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Coho Salmon	July 22-24, 2014		X	X	<input checked="" type="checkbox"/>
Dolly Varden	July 22-24, 2014			X	<input type="checkbox"/>
Cutthroat Trout	July 22-24, 2014			X	<input 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:
 See attached supplemental information.
 This application was prepared by Cathy Needham who may be reached at 907-723-4436 or cathy@kaienvironmental.com.

Name of Observer (please print): Robina Moyer
 Signature: [Signature] Date: 10/7/14
 Agency: Kai Environmental Consulting Services, LLC
 Address: 9000 Glacier Hwy, Suite 302
Juneau, AK 99801

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 _____
 02/08

Supplemental Information for Karta River – Unnamed Tributaries 2 and 2a

In the summer of 2014 a stream crew from the Organized Village of Kasaan (OVK) mapped habitat, took stream survey data and trapped minnows on the Karta River, including Unnamed Tributary 2, a northern tributary that flows into the left bank of the Karta (AWC 102-60-10870-2004). As shown on the attached map, from where it enters the Karta, Tributary 2 continues north for 0.2 miles, where it flows out of a small lake before narrowing into a creek at the northeast end of the lake. Stream mapping and survey data was taken on seven reaches for Tributary 2 and its tributary, referred to as Tributary 2a. Reach data is included in this packet and the corresponding locations are shown on the attached figure.

On July 22-24, 2014 eight baited minnow traps were set in a tributary on the north side of the Karta River and left to soak for between 1.5 and 17 hours (see map for locations). The trap at GPS Point 815 caught one stickleback (45mm), three juvenile coho (75mm, 80mm, 80mm) and five Dolly Varden (95mm, 110mm, 110mm, 120mm, 145mm). The trap at GPS Point 920 caught two juvenile coho (65mm, 80mm) and three salamanders. The trap at GPS Point 919 caught one coho (50mm). The trap at GPS Point 832 caught one cutthroat trout (70mm) and two coho (55mm, 65mm). The trap at GPS Point 887 caught no fish. The trap at GPS Point 897 caught one cutthroat trout (130mm). The trap at GPS Point 910 caught no fish and none were observed in the reach. The trap at GPS Point 869 caught no fish and none were observed above the cascade at GPS Point 863 (photo 1). An ADF&G fish trapping permit data sheet is attached to this nomination packet which includes further details on fish trapping on Tributaries 2 and 2a.

It is believed that the cascade at GPS Point 863, which is approximately 4.5 meters high with a bedrock substrate is a barrier to both adult and juvenile fish passage and marks the upper extent of fish habitat on this tributary.

The trap at GPS Point 897 was set below a mid-sized rock cascade (photo 2) which no fish were seen or trapped above. It is believed that this is a barrier to fish passage and marks the upper extent of fish habitat in the smaller tributary shown on the map.



Photo 1: Cascade at GPS Point 863.



Photo 2: Cascade on smaller tributary at GPS Point 897 which is a potential barrier to fish passage.

Reach Data for Unnamed Northern Tributary to Karta River
(AWC 102-60-10870-2004)

	Reach 6	Reach 10	Reach 11
Average stream gradient	2.15	0.43	4.78
Average bankfull width	4.3	3.1	5.6
Average channel bed width	4.1	3.6	2.0
Average incision depth	0.55	1.0	0.7
Bank composition	organic	organic	organic
Dominant substrate	large cobble	organic	large cobble
Sub-dominant substrate	small cobble	medium gravel	small cobble
Large wood count	19	3	62
Key wood count	1	0	10
Macro-pool count	2	0	8

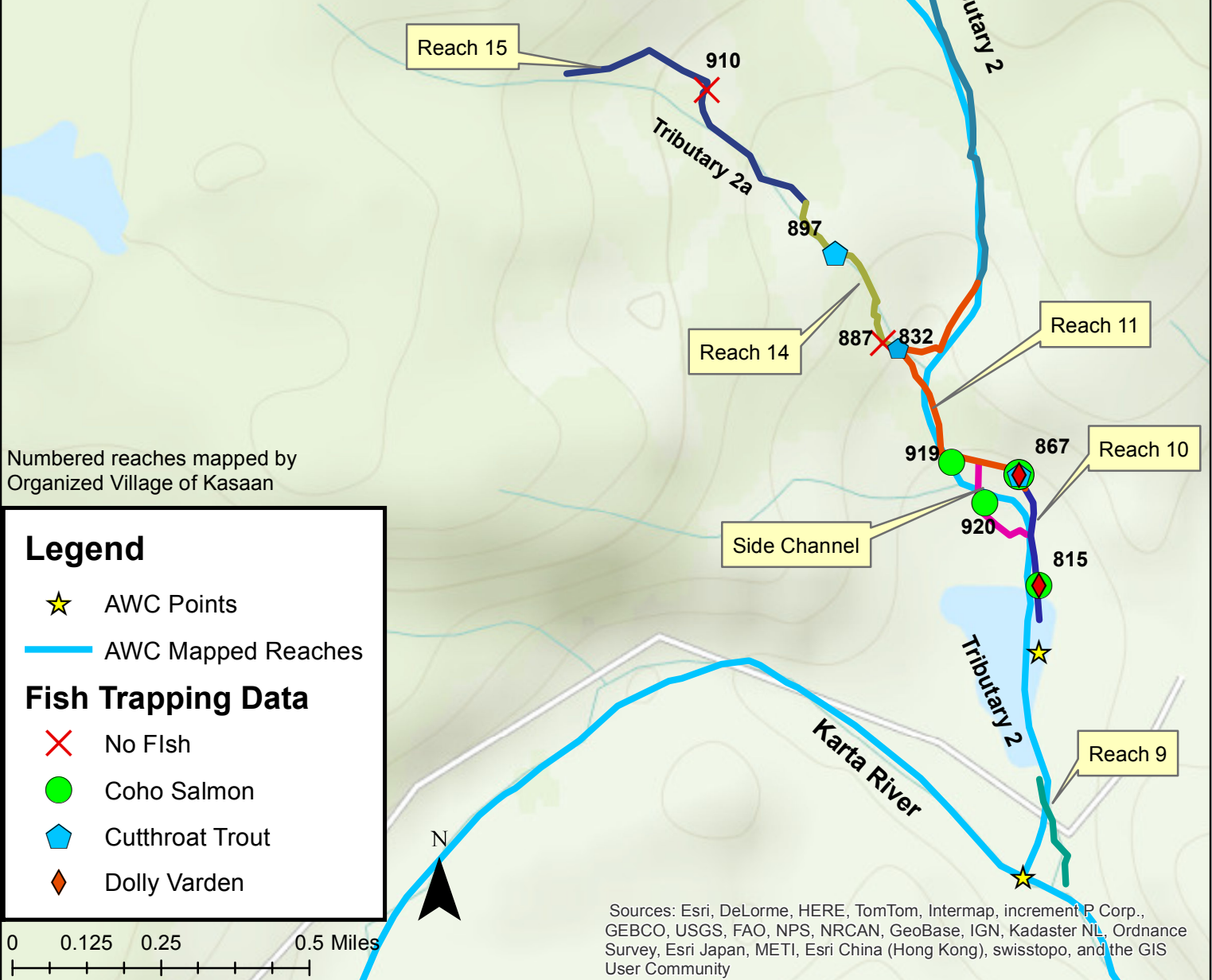
Reach Data for Unnamed Northern Tributary to Karta River cont'd
(AWC 102-60-10870-2004)

	Reach 12	Reach 13	Reach 14	Reach 15
Average stream gradient	15.18	3.03	6.55	10.48
Average bankfull width	2.8	0.9	2.6	15
Average channel bed width	3.4	1.5	2.4	0.8
Average incision depth	0.65	0.35	0.45	0.4
Bank composition	organic	organic	organic	organic
Dominant substrate	small cobble	very coarse gravel	bedrock	bedrock
Sub-dominant substrate	large cobble	small cobble	very coarse gravel	very fine gravel
Large wood count	102	20	50	46
Key wood count	13	6	12	11
Macro-pool count	11	11	16	12

Karta River Northern Tributary 2 July 22-24, 2014



Example of habitat found at the north end of the lake



ADF&G permit no. SF2014-130

Summary report of fish collection activity.

The area biologist was contacted on: 6:43am/May 30, 2014

Location ID (optional)	Latitude	Longitude	Datum	Coordinate determination method	Name of water body	Date	Fish collection method	Species	Life stage	Length (mm)	Length method	Disposition (1)	Comments
815	55.568981	-132.589363	WGS84	GPS	Karta	7/22/2014	Minnow Trap	Dolly Varden	juvenile	110	Fork	measured and released	
815	55.568981	-132.589363	WGS84	GPS	Karta	7/22/2014	Minnow Trap	Dolly Varden	juvenile	95	Fork	measured and released	
815	55.568981	-132.589363	WGS84	GPS	Karta	7/22/2014	Minnow Trap	Dolly Varden	juvenile	120	Fork	measured and released	
815	55.568981	-132.589363	WGS84	GPS	Karta	7/22/2014	Minnow Trap	Dolly Varden	juvenile	110	Fork	measured and released	
815	55.568981	-132.589363	WGS84	GPS	Karta	7/22/2014	Minnow Trap	Dolly Varden	juvenile	145	Fork	measured and released	
815	55.568981	-132.589363	WGS84	GPS	Karta	7/22/2014	Minnow Trap	coho salmon	juvenile	80	Fork	measured and released	
815	55.568981	-132.589363	WGS84	GPS	Karta	7/22/2014	Minnow Trap	coho salmon	juvenile	80	Fork	measured and released	
815	55.568981	-132.589363	WGS84	GPS	Karta	7/22/2014	Minnow Trap	coho salmon	juvenile	75	Fork	measured and released	
815	55.568981	-132.589363	WGS84	GPS	Karta	7/22/2014	Minnow Trap	stickleback-unspecified	juvenile	45	Fork	measured and released	
832	55.572241	-132.592782	WGS84	GPS	Karta	7/22/2014	Minnow Trap	coho salmon	juvenile	65	Fork	measured and released	
832	55.572241	-132.592782	WGS84	GPS	Karta	7/22/2014	Minnow Trap	cutthroat trout	juvenile	70	Fork	measured and released	
832	55.572241	-132.592782	WGS84	GPS	Karta	7/22/2014	Minnow Trap	coho salmon	juvenile	55	Fork	measured and released	
867	55.570506	-132.589847	WGS84	GPS	Karta	7/23/2014	Minnow Trap	coho salmon	juvenile	90	Fork	measured and released	set on 7/22, left overnight
867	55.570506	-132.589847	WGS84	GPS	Karta	7/23/2014	Minnow Trap	coho salmon	juvenile	95	Fork	measured and released	set on 7/22, left overnight
867	55.570506	-132.589847	WGS84	GPS	Karta	7/23/2014	Minnow Trap	cutthroat trout	juvenile	120	Fork	measured and released	set on 7/22, left overnight
867	55.570506	-132.589847	WGS84	GPS	Karta	7/23/2014	Minnow Trap	Dolly Varden	juvenile	90	Fork	measured and released	set on 7/22, left overnight
867	55.570506	-132.589847	WGS84	GPS	Karta	7/23/2014	Minnow Trap	Dolly Varden	juvenile	75	Fork	measured and released	set on 7/22, left overnight
867	55.570506	-132.589847	WGS84	GPS	Karta	7/23/2014	Minnow Trap	Dolly Varden	juvenile	70	Fork	measured and released	set on 7/22, left overnight
867	55.570506	-132.589847	WGS84	GPS	Karta	7/23/2014	Minnow Trap	Dolly Varden	juvenile	100	Fork	measured and released	set on 7/22, left overnight
867	55.570506	-132.589847	WGS84	GPS	Karta	7/23/2014	Minnow Trap	coho salmon	juvenile			ID'ed and released	set on 7/22, left overnight
867	55.570506	-132.589847	WGS84	GPS	Karta	7/23/2014	Minnow Trap	Dolly Varden	juvenile	90	Fork	measured and released	set on 7/22, left overnight
867	55.570506	-132.589847	WGS84	GPS	Karta	7/23/2014	Minnow Trap	Dolly Varden	juvenile	115	Fork	measured and released	set on 7/22, left overnight
867	55.570506	-132.589847	WGS84	GPS	Karta	7/23/2014	Minnow Trap	Dolly Varden	juvenile	75	Fork	measured and released	set on 7/22, left overnight
867	55.570506	-132.589847	WGS84	GPS	Karta	7/23/2014	Minnow Trap	Dolly Varden	juvenile	115	Fork	measured and released	set on 7/22, left overnight
867	55.570506	-132.589847	WGS84	GPS	Karta	7/23/2014	Minnow Trap	coho salmon	juvenile	70	Fork	measured and released	set on 7/22, left overnight

Location ID (optional)	Latitude	Longitude	Datum	Coordinate determination method	Name of water body	Date	Fish collection method	Species	Life stage	Length (mm)	Length method	Disposition (1)	Comments
867	55.570506	-132.589847	WGS84	GPS	Karta	7/23/2014	Minnow Trap	Dolly Varden	juvenile	85	Fork	measured and released	set on 7/22, left overnight
867	55.570506	-132.589847	WGS84	GPS	Karta	7/23/2014	Minnow Trap	Dolly Varden	juvenile	80	Fork	measured and released	set on 7/22, left overnight
867	55.570506	-132.589847	WGS84	GPS	Karta	7/23/2014	Minnow Trap	Dolly Varden	juvenile	100	Fork	measured and released	set on 7/22, left overnight
867	55.570506	-132.589847	WGS84	GPS	Karta	7/23/2014	Minnow Trap	Dolly Varden	juvenile	75	Fork	measured and released	set on 7/22, left overnight
867	55.570506	-132.589847	WGS84	GPS	Karta	7/23/2014	Minnow Trap	Dolly Varden	juvenile	100	Fork	measured and released	set on 7/22, left overnight
869	55.579797	-132.593155	WGS84	GPS	Karta	7/23/2014	Minnow Trap	no fish collected or observed					set on 7/22, left overnight
887	55.572321	-132.593156	WGS84	GPS	Karta	7/23/2014	Minnow Trap	no fish collected or observed					
897	55.573555	-132.594321	WGS84	GPS	Karta	7/23/2014	Minnow Trap	cutthroat trout	juvenile	130	Fork	measured and released	placed in pool below small cascade
910	55.575798	-132.597444	WGS84	GPS	Karta	7/23/2014	Minnow Trap	no fish collected or observed					no fish observed on reach



Region USGS Quad(s)

Anadromous Waters Catalog Number of Waterway

Name of Waterway USGS Name Local Name

Addition Deletion Correction Backup Information

For Office Use

Nomination # _____	_____	_____
Revision Year: _____	Fisheries Scientist	Date _____
Revision to: Atlas _____ Catalog _____	_____	_____
Both _____	Habitat Operations Manager	Date _____
Revision Code: _____	_____	_____
	AWC Project Biologist	Date _____
	_____	_____
	Cartographer	Date _____

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Pink Salmon	August 29, 2014	x		x	<input checked="" type="checkbox"/>
Coho Salmon	August 29, 2014	x		x	<input checked="" type="checkbox"/>
					<input 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:
See attached supplemental information.
This application was prepared by Cathy Needham who may be reached at 907-723-4436 or cathy@kaienvironmental.com.

Name of Observer (please print): Robina Moyer

Signature: Date: 10/7/14

Agency: Kai Environmental Consulting Services, LLC

Address: 9000 Glacier Hwy, Suite 302
Juneau, AK 99801

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 Karta River – Northern Tributary 2 Adults

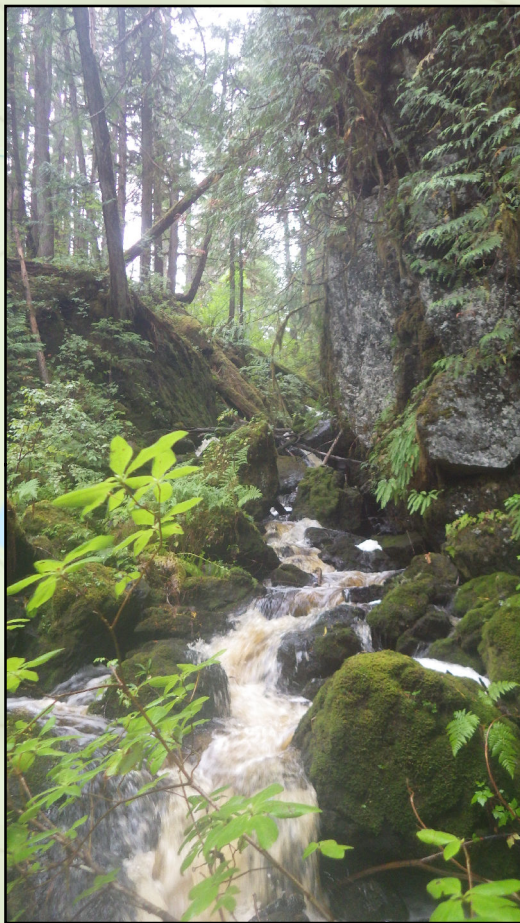
On August 29, 2014 an adult foot count survey was completed on a tributary on the north side of the Karta River (AWC 102-60-10870-2004) by a stream crew from the Organized Village of Kasaan (OVK). As shown on the attached map this tributary enters the Karta River on the left bank, continues north for 0.2 miles where it flows out of a small lake before narrowing into a creek at the northeast end of the lake. The crew walked upstream from the Karta River, skirted the lake and continued the survey up the creek. During the survey the crew counted dead and live adult salmon in and out of the water. From the mouth of the stream to GPS Point 1023 one live adult coho, ten live pink salmon and four pink salmon carcasses were recorded. From GPS Point 1023 to 1024 20 live adult pink salmon and 29 carcasses were counted. The stream crew continued their survey until the large cascade at GPS Point 1025 (shown below); no more adult salmon were observed. The crew did a brief survey up a tributary on the left bank which they mapped in July, this survey ended at GPS Point 1026 and no adult fish were observed. It is likely that there were additional adults in the lake but due to dark and deep water none were observed.

During habitat mapping and minnow trapping in July 2014 no minnows were trapped above the cascade at GPS Point 1025. It is believed that it is a potential barrier to both adult and juvenile fish passage and that the upper extent of fish habitat on this tributary was reached.

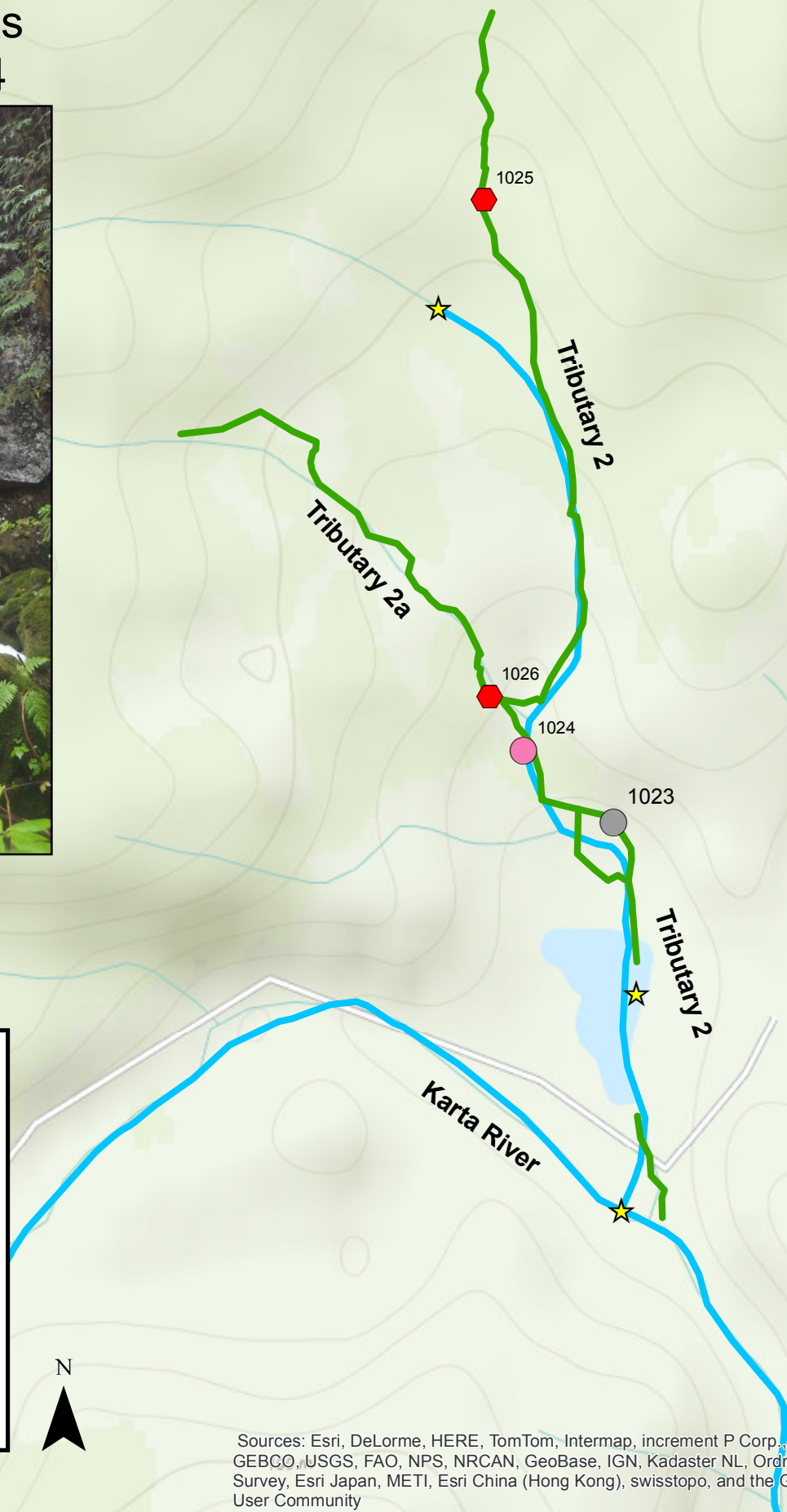


Photo 1: Partway up the cascade believed to be a barrier to fish passage on the northern tributary to Karta River

Karta River Tributary 2 Adult Foot Counts August 29, 2014



Cascade at GPS Point 1025

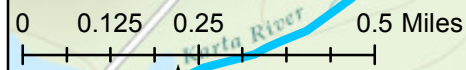


Legend

- ★ AWC Points
- AWC Mapped Reaches
- OVK Mapped Reaches

Adult Foot Count Data

- Last Adult Coho
- Last Adult Pink
- End of Survey



Sources: Esri, DeLorme, HERE, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

FISH ESCAPEMENT COUNTS

Organized Village of Kasaan Stream Habitat Surveys

Fish Habitat permit: SF2014-130 (various stream)

Date of Survey	Watershed	Stream/Tributary	Survey Start GPS	Survey End GPS Point
8/29/2014	Karta	Karta River to Top of Lake	1021	1023

Index Area	Pink Salmon		Chum Salmon		Coho Salmon		Sockeye Salmon		Other	
	Live	Carcass	Live	Carcass	Live	Carcass	Live	Carcass	Live	Carcass
Mount										
Intertidal										
In Stream	10	2								
Riparian		2								
TOTAL NUMBERS	10	4								
Upper GPS Point	1023	1023								

Observers	Wind	Weather	Water	Visibility	Bottom	Additional Comments
Si Fawcett, Robina Moyer	light	steady drizzle	mid to high	lots of tanins	organic	Riparian carcasses seen in grass next to lake

FISH ESCAPEMENT COUNTS

Organized Village of Kasaan Stream Habitat Surveys

Fish Habitat permit: SF2014-130 (various stream)

Date of Survey	Watershed	Stream/Tributary	Survey Start GPS	Survey End GPS Point
8/29/2014	Karta	Lake Tributary	1023	1025

Index Area	Pink Salmon		Chum Salmon		Coho Salmon		Sockeye Salmon		Other	
	Live	Carcass	Live	Carcass	Live	Carcass	Live	Carcass	Live	Carcass
Mount										
Intertidal										
In Stream	20	3			1					
Riparian		26								
TOTAL NUMBERS	20	29			1					
Upper GPS Point	1024	1024			1023					

Observers	Wind	Weather	Water	Visibility	Bottom	Additional Comments
Si Fawcett, Robina Moyer	light	steady drizzle	mid to high	lots of tanins	small cobbles	Adult fish were not seen very far upstream, there were none by the time we got to the RB tributary we mapped earlier in the summer



Region Southeast USGS Quad(s) Craig C-2
 Anadromous Waters Catalog Number of Waterway _____
 Name of Waterway Unnamed Tributary 1a to Karta River(see map) USGS Name Local Name
 Addition Deletion Correction Backup Information

For Office Use

Nomination # _____ Revision Year: _____ Revision to: Atlas _____ Catalog _____ Both _____ Revision Code: _____	_____	_____
	Fisheries Scientist	Date
	_____	_____
	Habitat Operations Manager	Date
_____	_____	_____
_____	AWC Project Biologist	Date
_____	_____	_____
_____	Cartographer	Date

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Coho Salmon	July 9, 2014		x	x	<input checked="" type="checkbox"/>
					<input type="checkbox"/>
					<input 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:
 See attached supplemental information.
 This application was prepared by Cathy Needham who may be reached at 907-723-4436 or cathy@kaienvironmental.com.

Name of Observer (please print): Robina Moyer
 Signature: Date: 10/7/14
 Agency: Kai Environmental Consulting Services, LLC
 Address: 9000 Glacier Hwy, Suite 302
Juneau, AK 99801

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 _____
 02/08

Supplemental Information for Karta River – Unnamed Tributary 1a Coho Rearing

In the summer of 2014 a stream crew from the Organized Village of Kasaan (OVK) mapped habitat, took stream survey data and trapped minnows on the Karta River, including an unnamed southern tributary, referred to here as Tributary 1, that flows into Karta Bay (AWC 102-60-10869). A smaller unnamed tributary flows into Tributary 1 and is referred to here as Tributary 1a (see attached map). Stream mapping and survey data was taken for one reach on Tributary 1a and is included in this packet.

On July 9, 2014 three baited minnow traps were set in a smaller tributary to the unnamed tributary, referred to as Tributary 1a (see map) and left to soak for between one and four hours. The trap at GPS Point 574 caught three juvenile coho salmon (70mm, 75mm, 90mm). The traps at GPS Points 599 and 622 caught no fish. An ADF&G fish trapping permit data sheet is attached to this nomination packet which includes further details on fish trapping in Tributary 1a.

The crew continued to map upstream and reach a rock cascade waterfall, approximately 7 meters tall which was documented at GPS Point 633 and shown below. The crew was unable to get above the waterfall and it is believed to be a barrier to both juvenile and adult fish passage.



Photo 1: Cascade at GPS Point 633.

Reach Data Unnamed Southern Tributary 1a to Karta River
(not currently listed in AWC)

	Reach 4
Average stream gradient	10.63
Average bankfull width	4.5
Average channel bed width	3.1
Average incision depth	0.8
Bank composition	organic
Dominant substrate	small cobble
Sub-dominate substrate	large cobble
Large wood count	84
Key wood count	27
Macro-pool count	63

Karta River Southern Tributary 1a July 9, 2014



Stream crew part-way up the approximately 7 meter tall cascade at GPS Point 633



Legend

- ★ AWC Points
- AWC Mapped Reaches
- OVK Mapped Reaches**
- Reach 4
- Fish Trapping Data**
- Coho Salmon
- ✕ No Fish
- ✱ Cascade



0 0.15 0.3 0.6 Miles

Sources: Esri, DeLorme, HERE, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

ADF&G permit no. SF2014-130

Summary report of fish collection activity.

The area biologist was contacted on: 6:43am/May 30, 2014

Location ID (optional)	Latitude	Longitude	Datum	Coordinate determination method	Name of water body	Date	Fish collection method	Species	Life stage	Length (mm) No estimates/ra nges	Length method	Disposition (1)
574	55.553432	-132.577689	WGS84	GPS	Karta	7/9/2014	Minnow Trap	coho salmon	juvenile	75	Fork	measured and released
574	55.553432	-132.577689	WGS84	GPS	Karta	7/9/2014	Minnow Trap	coho salmon	juvenile	90	Fork	measured and released
574	55.553432	-132.577689	WGS84	GPS	Karta	7/9/2014	Minnow Trap	coho salmon	juvenile	70	Fork	measured and released
599	55.552721	-132.586146	WGS84	GPS	Karta	7/9/2014	Minnow Trap	no fish collected or observed				
622	55.550289	-132.590779	WGS84	GPS	Karta	7/9/2014	Minnow Trap	no fish collected or observed				



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

Nomination Form
Anadromous Waters Catalog

Region Southeast USGS Quad(s) Craig C-2
 Anadromous Waters Catalog Number of Waterway 102-60-10869
 Name of Waterway Unnamed Tributary 1 to Karta River(see map) USGS Name Local Name
 Addition Deletion Correction Backup Information

For Office Use

Nomination # _____	_____	_____
Revision Year: _____	Fisheries Scientist	Date _____
Revision to: Atlas _____ Catalog _____	Habitat Operations Manager	Date _____
Both _____	AWC Project Biologist	Date _____
Revision Code: _____	Cartographer	Date _____

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Coho Salmon	July 8-9, 2014		x	x	<input checked="" type="checkbox"/>
Cutthroat Trout	July 8-9, 2014			x	<input type="checkbox"/>
Dolly Varden	July 8-9, 2014			x	<input 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:
 See attached supplemental information.
 This application was prepared by Cathy Needham who may be reached at 907-723-4436 or cathy@kaienvironmental.com.

Name of Observer (please print): Robina Moyer
 Signature: [Signature] Date: 10/7/14
 Agency: Kai Environmental Consulting Services, LLC
 Address: 9000 Glacier Hwy, Suite 302
Juneau, AK 99801

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: _____
 02/08

Supplemental Information for Karta River – Unnamed Tributary 1 Coho Rearing

In the summer of 2014 a stream crew from the Organized Village of Kasaan (OVK) mapped habitat, took stream survey data and trapped minnows on the Karta River, including a southern tributary that flows into Karta Bay (AWC 102-60-10869). Stream mapping and survey data was taken for three reaches on Tributary 1. Reach data is included in this packet and the corresponding locations are shown on the attached figure.

On July 7-9, 2014 six baited minnow traps were set in this tributary and left to soak for between one and seven hours (see map for locations). The trap at GPS Point 457 caught no fish, though minnows were observed nearby. The trap at GPS Point 548 caught seven juvenile coho (55mm, 60mm, 60mm, 70mm, 70mm, 85mm, one unmeasured) and four cutthroat trout (75mm, 80mm, 90mm, 130mm). The trap at GPS Point 473 caught three scuplin, one Dolly Varden (130mm) and two juvenile coho (80mm, 100mm). The trap at GPS Point 524 caught no fish. The trap at GPS Point 531 caught six juvenile coho salmon (65mm, 70mm, 75mm, 80mm, 85mm, 100mm). An ADF&G fish trapping permit data sheet is attached to this nomination packet which includes further details on fish trapping in Tributary 1.

The crew continued to map upstream and reached a large waterfall, approximately 15 meters tall which was documented at GPS Point 553 and shown below. The crew was unable to get above the waterfall and it is believed to be a barrier to both juvenile and adult fish passage.



Photo 1: Waterfall at GPS Point 553.

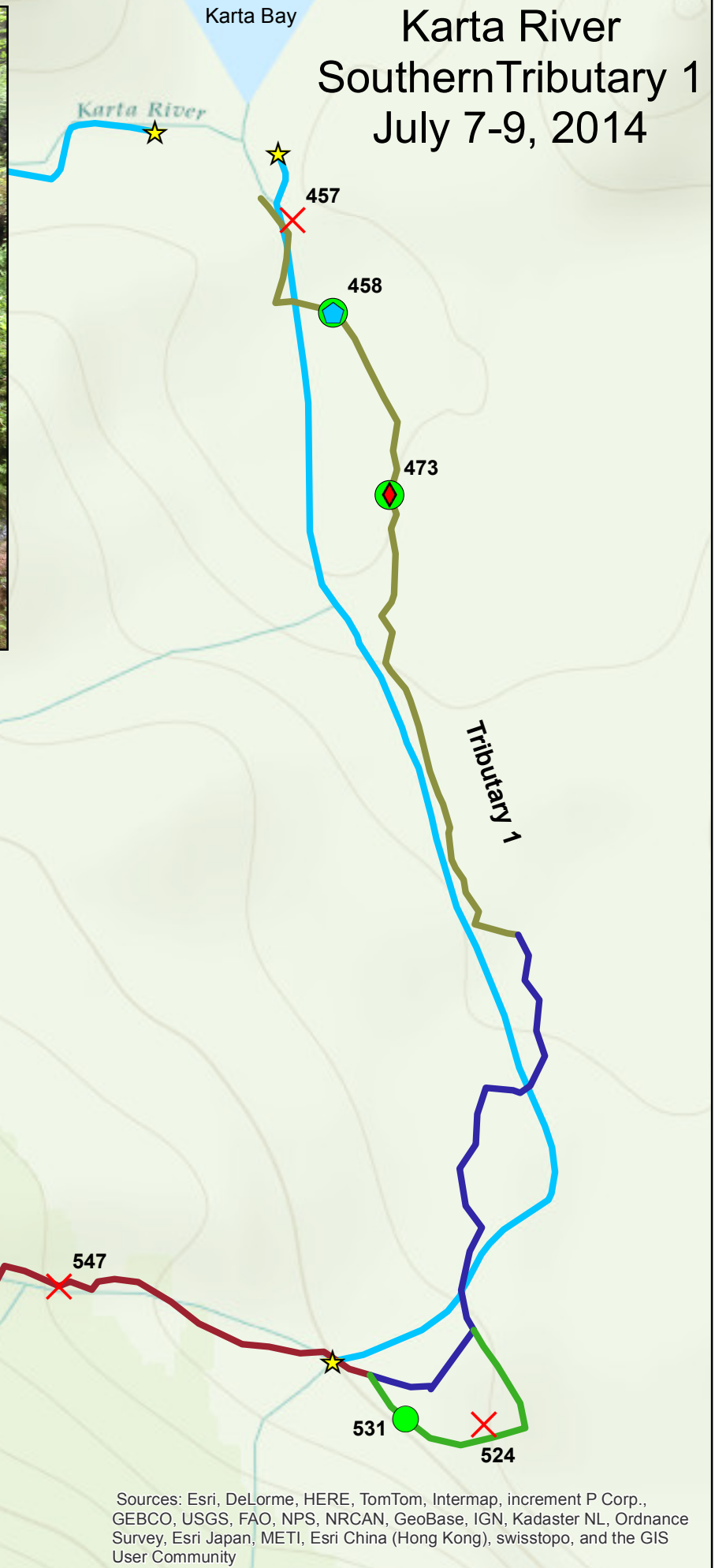
Reach Data for Unnamed Southern Tributary 1 to Karta River
(AWC 102-60-10869)

	Reach 1	Reach 2	Reach 3
Average stream gradient	2.6	2.15	6.55
Average bankfull width	5.1	3.4	8
Average channel bed width	12.7	3.5	6.23
Average incision depth	0.95	0.4	0.75
Bank composition	organic	organic	organic
Dominant substrate	small cobble	very coarse gravel	very coarse gravel
Sub-dominant substrate	very coarse gravel	bedrock	small cobble
Large wood count	179	113	104
Key wood count	13	38	52
Macro-pool count	26	20	7

Karta River Southern Tributary 1 July 7-9, 2014



Stream crew part-way up the approximately 15 meter tall cascade at GPS Point 553



Legend

- ★ AWC Points
- AWC Mapped Reaches

OVK Mapped Reaches

- Reach 1
- Reach 2
- Reach 3
- Side Channel

Fish Trapping Data

- ◡ Cutthroat Trout
- ◊ Dolly Varden
- Coho Salmon
- ✗ No Fish

Sources: Esri, DeLorme, HERE, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

ADF&G permit no. SF2014-130**Summary report of fish collection activity.****The area biologist was contacted on: 6:43am/May 30, 2014**

Location ID (optional)	Latitude	Longitude	Datum	Coordinate determination method	Name of water body	Date	Fish collection method	Species	Life stage	Length (mm) No estimates/ra nges	Length method	Disposition (1)
457	55.558407	-132.575390	WGS84	GPS	Karta	7/7/2014	Minnow Trap	no fish collected or observed				
458	55.557339	-132.574557	WGS84	GPS	Karta	7/7/2014	Minnow Trap	cutthroat trout	juvenile	130	Fork	measured and released
458	55.557339	-132.574557	WGS84	GPS	Karta	7/7/2014	Minnow Trap	cutthroat trout	juvenile	90	Fork	measured and released
458	55.557339	-132.574557	WGS84	GPS	Karta	7/7/2014	Minnow Trap	coho salmon	juvenile	55	Fork	measured and released
458	55.557339	-132.574557	WGS84	GPS	Karta	7/7/2014	Minnow Trap	coho salmon	juvenile	60	Fork	measured and released
458	55.557339	-132.574557	WGS84	GPS	Karta	7/7/2014	Minnow Trap	coho salmon	juvenile			ID'ed and released
458	55.557339	-132.574557	WGS84	GPS	Karta	7/7/2014	Minnow Trap	coho salmon	juvenile	70	Fork	measured and released
458	55.557339	-132.574557	WGS84	GPS	Karta	7/7/2014	Minnow Trap	cutthroat trout	juvenile	80	Fork	measured and released
458	55.557339	-132.574557	WGS84	GPS	Karta	7/7/2014	Minnow Trap	cutthroat trout	juvenile	75	Fork	measured and released
458	55.557339	-132.574557	WGS84	GPS	Karta	7/7/2014	Minnow Trap	coho salmon	juvenile	85	Fork	measured and released
458	55.557339	-132.574557	WGS84	GPS	Karta	7/7/2014	Minnow Trap	coho salmon	juvenile	60	Fork	measured and released
458	55.557339	-132.574557	WGS84	GPS	Karta	7/7/2014	Minnow Trap	coho salmon	juvenile	70	Fork	measured and released
473	55.555232	-132.573409	WGS84	GPS	Karta	7/7/2014	Minnow Trap	sculpin-unspecified				ID'ed and released
473	55.555232	-132.573409	WGS84	GPS	Karta	7/7/2014	Minnow Trap	sculpin-unspecified				ID'ed and released
473	55.555232	-132.573409	WGS84	GPS	Karta	7/7/2014	Minnow Trap	sculpin-unspecified				ID'ed and released
473	55.555232	-132.573409	WGS84	GPS	Karta	7/7/2014	Minnow Trap	Dolly Varden	juvenile	130	Fork	measured and released
473	55.555232	-132.573409	WGS84	GPS	Karta	7/7/2014	Minnow Trap	coho salmon	juvenile	100	Fork	measured and released
473	55.555232	-132.573409	WGS84	GPS	Karta	7/7/2014	Minnow Trap	coho salmon	juvenile	80	Fork	measured and released
524	55.544478	-132.571478	WGS84	GPS	Karta	7/8/2014	Minnow Trap	no fish collected or observed				
531	55.544540	-132.573075	WGS84	GPS	Karta	7/8/2014	Minnow Trap	coho salmon	juvenile	100	Fork	measured and released
531	55.544540	-132.573075	WGS84	GPS	Karta	7/8/2014	Minnow Trap	coho salmon	juvenile	85	Fork	measured and released
531	55.544540	-132.573075	WGS84	GPS	Karta	7/8/2014	Minnow Trap	coho salmon	juvenile	75	Fork	measured and released
531	55.544540	-132.573075	WGS84	GPS	Karta	7/8/2014	Minnow Trap	coho salmon	juvenile	65	Fork	measured and released
531	55.544540	-132.573075	WGS84	GPS	Karta	7/8/2014	Minnow Trap	coho salmon	juvenile	80	Fork	measured and released
531	55.544540	-132.573075	WGS84	GPS	Karta	7/8/2014	Minnow Trap	coho salmon	juvenile	70	Fork	measured and released
547	55.546072	-132.580173	WGS84	GPS	Karta	7/8/2014	Minnow Trap	no fish collected or observed				



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

Nomination Form
Anadromous Waters Catalog

Region Southeast USGS Quad(s) Craig C-2
 Anadromous Waters Catalog Number of Waterway 102-60-10869
 Name of Waterway Unnamed Southern Trib 1 to Karta River(see map) USGS Name Local Name
 Addition Deletion Correction Backup Information

For Office Use

Nomination # _____	_____	_____
Revision Year: _____	Fisheries Scientist	Date _____
Revision to: Atlas _____ Catalog _____	Habitat Operations Manager	Date _____
Both _____	AWC Project Biologist	Date _____
Revision Code: _____	Cartographer	Date _____

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Pink Salmon	August 30, 2014	x		x	<input checked="" type="checkbox"/>
Coho Salmon	August 30, 2014	x		x	<input checked="" type="checkbox"/>
					<input 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:
 See attached supplemental information.
 This application was prepared by Cathy Needham who may be reached at 907-723-4436 or cathy@kaienvironmental.com.

Name of Observer (please print): Robina Moyer
 Signature: [Signature] Date: 10/7/14
 Agency: Kai Environmental Consulting Services, LLC
 Address: 9000 Glacier Hwy, Suite 302
Juneau, AK 99801

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 Karta River – Unnamed Tributaries 1 and 1a

On August 30, 2014 an adult foot count survey was completed in the unnamed southern tributary to the Karta River shown on the included map (AWC 102-60-10869) by a stream crew from the Organized Village of Kasaan (OVK). The crew walked upstream and counted dead and live adult salmon in and out of the water. From the mouth of the stream to GPS point 011 the crew saw 113 live adult pink salmon, 35 pink salmon carcasses and 12 live coho salmon. The crew continued to survey approximately 0.75 miles above the last adult seen and documented no additional adult salmon. There was no obvious barrier to adult fish passage in the stretch surveyed, though the crew noted minimal spawning gravels which may contribute to the lack of adult fish seen during surveys. The crew also surveyed a smaller tributary, shown on the map as Tributary 1a, until GPS Point 009 and saw no adult salmon.

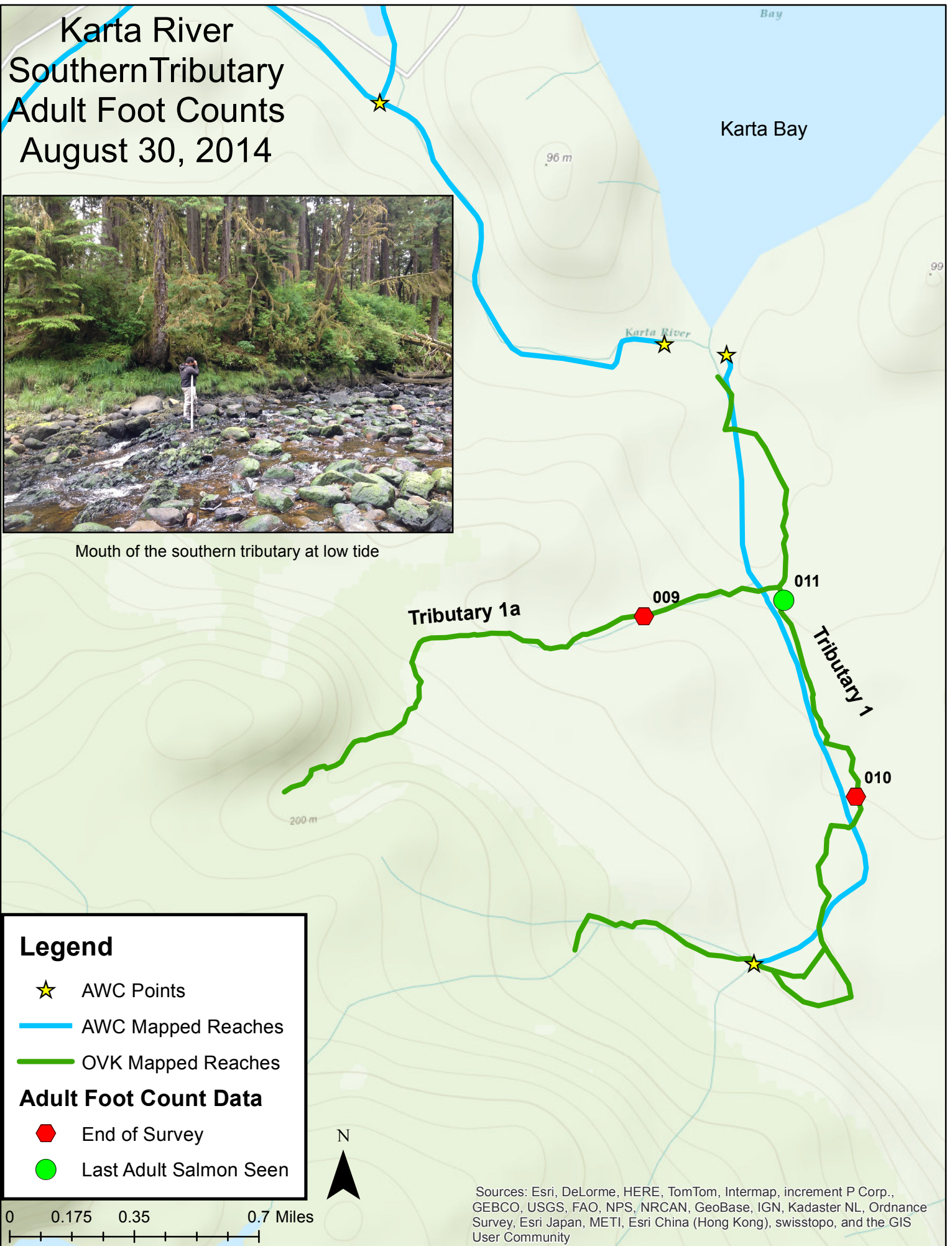


Photo 1: Mouth of unnamed southern Tributary 1 into Karta Bay at low tide

Karta River Southern Tributary Adult Foot Counts August 30, 2014



Mouth of the southern tributary at low tide



FISH ESCAPEMENT COUNTS

Organized Village of Kasaan Stream Habitat Surveys

Fish Habitat permit: SF2014-130 (various stream)

Date of Survey	Watershed	Stream/Tributary	Survey Start GPS	Survey End GPS Point
8/30/2014	Karta	Trib 1		09, 010

Index Area	Pink Salmon		Chum Salmon		Coho Salmon		Sockeye Salmon		Other	
	Live	Carcass	Live	Carcass	Live	Carcass	Live	Carcass	Live	Carcass
Mount										
Intertidal	30	10			7					
In Stream	83	8			5					
Riparian		17								
TOTAL NUMBERS	113	35			12					
Upper GPS Point	11	11			11					

Observers	Wind	Weather	Water	Visibility	Bottom	Additional Comments
Josh Peele, Jeff Bell, Si Fawcett, Robina Moyer	light	steady rain	mid-level	clear	gravel	



Region: Southeast USGS Quad(s): Craig C-2
 Anadromous Waters Catalog Number of Waterway: 102-60-10870-2007
 Name of Waterway: Flagstaff Creek USGS Name Local Name
 Addition Deletion Correction Backup Information

For Office Use

Nomination # _____	_____	_____
Revision Year: _____	Fisheries Scientist	Date _____
Revision to: Atlas _____ Catalog _____	_____	_____
Both _____	Habitat Operations Manager	Date _____
Revision Code: _____	_____	_____
	AWC Project Biologist	Date _____
	_____	_____
	Cartographer	Date _____

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Coho Salmon	July 15-16, 2014		X	X	<input checked="" type="checkbox"/>
Cutthroat Trout	July 15-16, 2014			X	<input type="checkbox"/>
					<input 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:
 See attached supplemental information.
 This application was prepared by Cathy Needham who may be reached at 907-723-4436 or cathy@kaienvironmental.com.

Name of Observer (please print): Robina Moyer
 Signature: *Robina Moyer* Date: 10/7/14
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Juneau, AK 99801

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 Karta River – Flagstaff Creek Rearing

In the summer of 2014 a stream crew from the Organized Village of Kasaan (OVK) mapped habitat, took stream survey data and trapped minnows Flagstaff Creek (AWC 102-60-10870-2007). Stream mapping and survey data was taken for three reaches on Flagstaff Creek. Reach data is included in this packet and the corresponding locations are shown on the attached figure.

On July 15-16, 2014 six baited minnow traps was set in Flagstaff Creek and left to soak for between one and seven hours. The trap at the mouth of Flagstaff Creek (GPS Point 654) caught four sculpin, although other minnows were visually seen adjacent to the trap (see map for locations). The trap at location GPS Point 682 caught nine juvenile coho salmon (lengths 70mm, 85mm, 65mm, 60mm, 115mm, 90mm, 100mm, 70mm, 115mm). The trap at GPS Point 715 caught no fish. The trap at GPS location 743 caught two juvenile coho (both 110mm in length). The GPS Point at 766 caught one cutthroat trout (length 120mm). The trap at GPS Point 772 caught one juvenile coho (length 100mm). No traps were set above GPS Point 772 due to time constraints in the field. No significant barriers to juvenile fish passage were encountered and it is believed that the crew did not reach the upper extent of fish habitat in Flagstaff Creek. An ADF&G fish trapping permit data sheet is attached to this nomination packet which includes further details on fish trapping in Flagstaff Creek.



Photo 1: Juvenile coho captured in the trap at GPS Point 772.

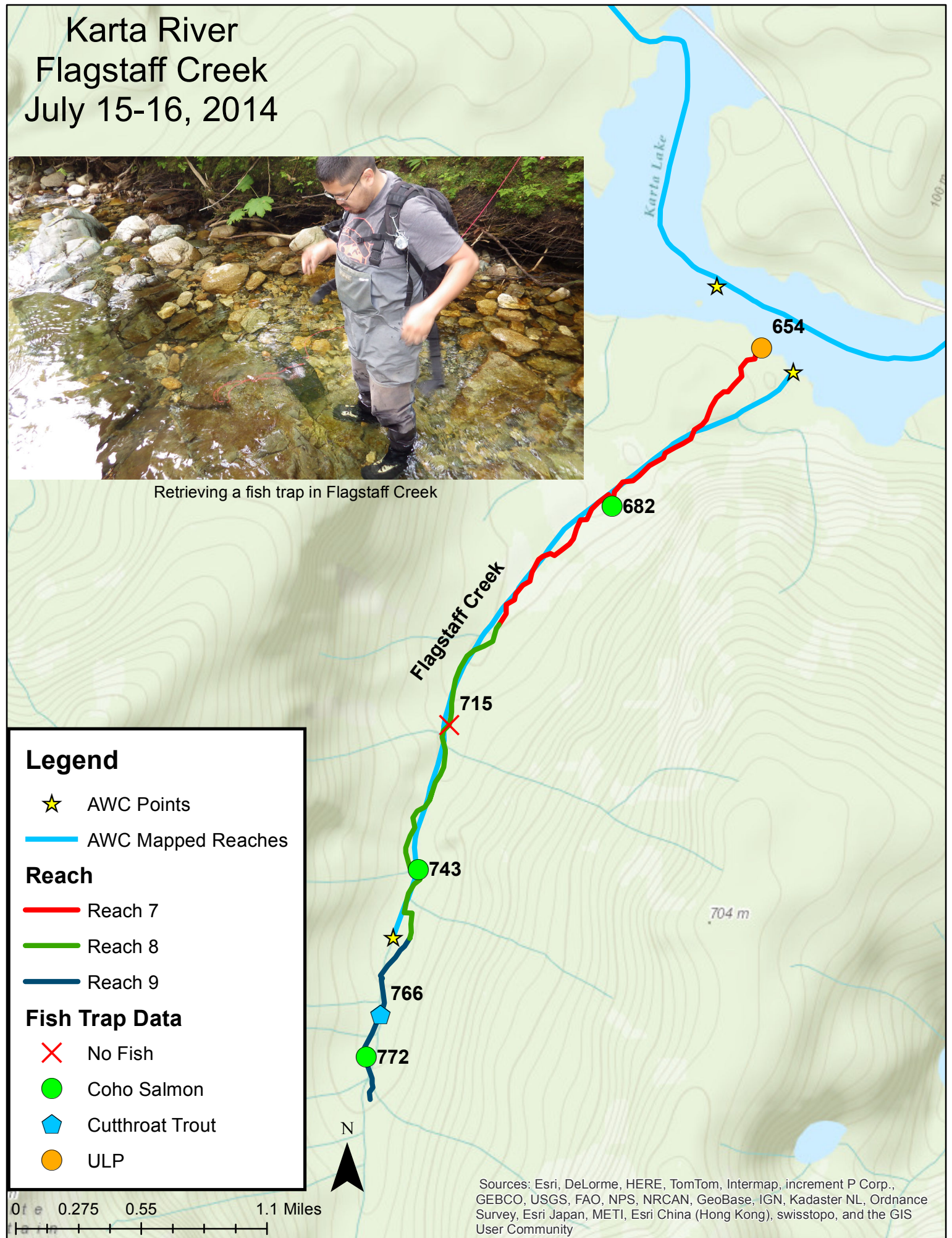
Reach Data for Flagstaff Creek
 (AWC 102-60-10870-2007)

	Reach 7	Reach 8	Reach 9
Average stream gradient	3.9	4.35	3.93
Average bankfull width	11.7	7.2	5.7
Average channel bed width	5	10.7	7.8
Average incision depth	0.9	0.95	0.77
Bank composition	alluvium	alluvium	mixed
Dominant substrate	small cobble	large cobble	large cobble
Sub-dominate substrate	very coarse gravel	small cobble	small cobble
Large wood count	250	137	25
Key wood count	22	15	1
Macro-pool count	9	27	27

Karta River Flagstaff Creek July 15-16, 2014



Retrieving a fish trap in Flagstaff Creek



Legend

★ AWC Points

— AWC Mapped Reaches

Reach

— Reach 7

— Reach 8

— Reach 9

Fish Trap Data

✗ No Fish

● Coho Salmon

⬠ Cutthroat Trout

● ULP

Sources: Esri, DeLorme, HERE, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

ADF&G permit no. SF2014-130**Summary report of fish collection activity.****The area biologist was contacted on: 6:43am/May 30, 2014**

Location ID	Latitude	Longitude	Datum	Coordinate determination method	Name of water body	Date	Fish collection method	Species	Life stage	Length (mm) No estimate s/ranges	Length method	Disposition (1)
654	55.559078	-132.628018	WGS84	GPS	Karta/Flagstaff Creek	7/15/2014	Minnow Trap	sculpin-unspecified				ID'ed and released
654	55.559078	-132.628018	WGS84	GPS	Karta/Flagstaff Creek	7/15/2014	Minnow Trap	sculpin-unspecified				ID'ed and released
654	55.559078	-132.628018	WGS84	GPS	Karta/Flagstaff Creek	7/15/2014	Minnow Trap	sculpin-unspecified				ID'ed and released
654	55.559078	-132.628018	WGS84	GPS	Karta/Flagstaff Creek	7/15/2014	Minnow Trap	sculpin-unspecified				ID'ed and released
682	55.553420	-132.637472	WGS84	GPS	Karta/Flagstaff Creek	7/15/2014	Minnow Trap	coho salmon	juvenile	70 Fork		measured and released
682	55.553420	-132.637472	WGS84	GPS	Karta/Flagstaff Creek	7/15/2014	Minnow Trap	coho salmon	juvenile	85 Fork		measured and released
682	55.553420	-132.637472	WGS84	GPS	Karta/Flagstaff Creek	7/15/2014	Minnow Trap	coho salmon	juvenile	65 Fork		measured and released
682	55.553420	-132.637472	WGS84	GPS	Karta/Flagstaff Creek	7/15/2014	Minnow Trap	coho salmon	juvenile	115 Fork		measured and released
682	55.553420	-132.637472	WGS84	GPS	Karta/Flagstaff Creek	7/15/2014	Minnow Trap	coho salmon	juvenile	60 Fork		measured and released
682	55.553420	-132.637472	WGS84	GPS	Karta/Flagstaff Creek	7/15/2014	Minnow Trap	coho salmon	juvenile	90 Fork		measured and released
682	55.553420	-132.637472	WGS84	GPS	Karta/Flagstaff Creek	7/15/2014	Minnow Trap	coho salmon	juvenile	100 Fork		measured and released
682	55.553420	-132.637472	WGS84	GPS	Karta/Flagstaff Creek	7/15/2014	Minnow Trap	coho salmon	juvenile	70 Fork		measured and released
682	55.553420	-132.637472	WGS84	GPS	Karta/Flagstaff Creek	7/15/2014	Minnow Trap	coho salmon	juvenile	115 Fork		measured and released
715	55.545591	-132.647773	WGS84	GPS	Karta/Flagstaff Creek	7/15/2014	Minnow Trap	no fish collected or observed				
743	55.540425	-132.649726	WGS84	GPS	Karta/Flagstaff Creek	7/16/2014	Minnow Trap	coho salmon	juvenile	110 Fork		measured and released
743	55.540425	-132.649726	WGS84	GPS	Karta/Flagstaff Creek	7/16/2014	Minnow Trap	coho salmon	juvenile	110 Fork		measured and released
766	55.535230	-132.652129	WGS84	GPS	Karta/Flagstaff Creek	7/16/2014	Minnow Trap	cutthroat trout	juvenile	120 Fork		measured and released
772	55.533702	-132.653045	WGS84	GPS	Karta/Flagstaff Creek	7/16/2014	Minnow Trap	coho salmon	juvenile	100 Fork		measured and released