



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

Nomination Form
Anadromous Waters Catalog

Region Southeast USGS Quad(s) Dixon Entrance D-1

AWC Number of Water Body 103-11-101-90-2015-0010

Name of Water body Hessa Lake (Stream 1) 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: _____	GIS Analyst	Date _____

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Coho salmon	September 4, 2015		X	X	<input checked="" type="checkbox"/>
Sockeye salmon	September 3, 2015	X		X	<input checked="" type="checkbox"/>
Cutthroat trout	September 4, 2015			X	<input type="checkbox"/>
Dolly Varden	September 4, 2015			X	<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 supplemental information. This package was prepared by Melanie Kadake and Cathy Needham. For question or additional information contact Ms. Kadake at 907-285-3665 or mjkadake13@gmail.com or Ms. Needham at 907-723-4436 or cathy@kaienvironmental.com

Name of Observer (please print): Tony Sanderson
 Signature: Date: 1-25-16
 Agency: Hydaburg Cooperative Agency
 Address: P.O. Box 349
Hydaburg, AK 99922

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 11/13
 Name of Area Biologist (please print): _____

Supplemental information for Stream 1 in Hessa Lake

Three baited minnow traps were soaked for 1-4 hours in Stream 1 in Hessa Lake watershed on September 4th, 2015. Stream 1 is not listed but Hessa Lake is listed in the Anadromous Waters Catalog (103-11-101-90-2015-0010). This current nomination is to nominate Coho salmon rearing and present, and adult sockeye salmon present and spawning. It is also noted Dolly Varden and cutthroat trout 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. In the adult fish count we found one live sockeye and one sockeye carcass; a datasheet is attached to this nomination packet.

Stream mapping and survey data was collected by the Hydaburg Cooperative Association Stream Survey crew for Stream 1 on September 3rd and 4th. 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:

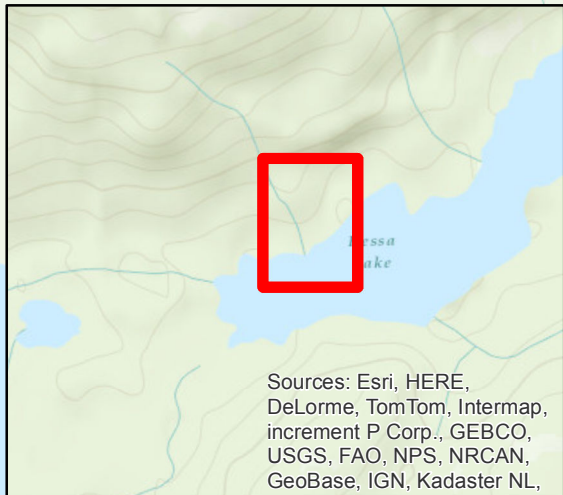
	Reach 1	Reach 2
Average stream gradient	3	3.5
Average bankfull width	3.4	3.6
Average channel bed width	3.5	3.4
Average incision depth	0.47	0.51
Bank composition	Mixed	Mixed
Dominant substrate	Small Cobble	Small Cobble
Sub-dominant substrate	Very Coarse Gravel	Very Coarse Gravel
Large wood count	50	54
Key wood count	16	16
Macro-pool count	8	7

Reach 1 was classified as AFM (Moderate Gradient Alluvial Fan Channel) and Reach 2 was classified as AFM (Moderate Gradient Alluvial Fan Channel). The stream survey crew did document a barrier on this stream (pictured below) but it was not a barrier to fish passage. At the end of Reach 2 the water turned into muskeg, and is therefore the upper extent of fish habitat.



Photo 1: Hessa Lake Stream 1 barrier that is not a barrier to fish passage.

Hessa Lake Stream 1



0 0.015 0.03 0.06 Miles



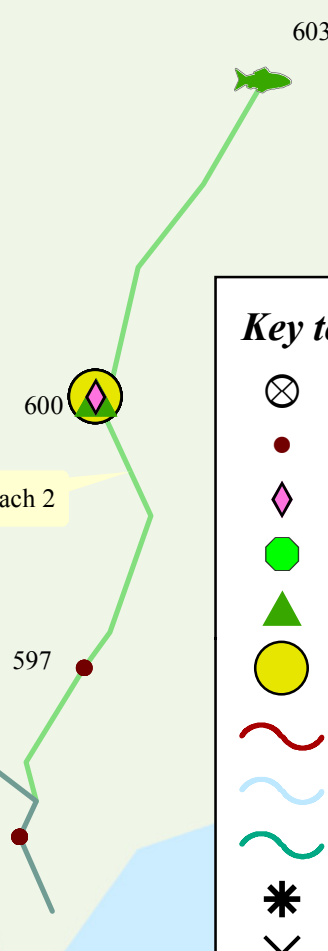
Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri, DeLorme, Garmin, Swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Key to Symbols

- ⊗ No fish collected
- Sculpin
- ◆ Dolly Varden
- Rainbow / Steelhead
- ▲ Cutthroat trout
- Coho salmon
- ~ Anadromous waters catalog
- ~ Previously mapped streams
- ~ Newly mapped streams
- * Beaver dam
- × Waterfall

Adult observations

- 🐟 Pink salmon
- 🐟 Chum salmon
- 🐟 Coho salmon
- 🐟 Sockeye salmon



ADF&G permit no. SF2015-153**Summary report of fish collection activity.****The area biologist was contacted on: TIME/DATE: 10:01 am May 27th, 2015**

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
597	54.88081	-132.16100	WGS84	GPS	Hunters Bay	9/4/2015	Tony Sanderson	Minnow Trap	sculpin-unspecified	juvenile	109
597	54.88081	-132.16100	WGS84	GPS	Hunters Bay	9/4/2015	Tony Sanderson	Minnow Trap	sculpin-unspecified	juvenile	110
597	54.88081	-132.16100	WGS84	GPS	Hunters Bay	9/4/2015	Tony Sanderson	Minnow Trap	sculpin-unspecified	juvenile	99
597	54.88081	-132.16100	WGS84	GPS	Hunters Bay	9/4/2015	Tony Sanderson	Minnow Trap	sculpin-unspecified	juvenile	120
597	54.88081	-132.16100	WGS84	GPS	Hunters Bay	9/4/2015	Tony Sanderson	Minnow Trap	sculpin-unspecified	juvenile	95
597	54.88081	-132.16100	WGS84	GPS	Hunters Bay	9/4/2015	Tony Sanderson	Minnow Trap	sculpin-unspecified	juvenile	99
600	54.88145	-132.16093	WGS84	GPS	Hunters Bay	9/4/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	98
600	54.88145	-132.16093	WGS84	GPS	Hunters Bay	9/4/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	55
600	54.88145	-132.16093	WGS84	GPS	Hunters Bay	9/4/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	95
600	54.88145	-132.16093	WGS84	GPS	Hunters Bay	9/4/2015	Tony Sanderson	Minnow Trap	cutthroat trout	juvenile	110
600	54.88145	-132.16093	WGS84	GPS	Hunters Bay	9/4/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	85
600	54.88145	-132.16093	WGS84	GPS	Hunters Bay	9/4/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	109
600	54.88145	-132.16093	WGS84	GPS	Hunters Bay	9/4/2015	Tony Sanderson	Minnow Trap	cutthroat trout	juvenile	90
600	54.88145	-132.16093	WGS84	GPS	Hunters Bay	9/4/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	52
600	54.88145	-132.16093	WGS84	GPS	Hunters Bay	9/4/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	50
600	54.88145	-132.16093	WGS84	GPS	Hunters Bay	9/4/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	66
600	54.88145	-132.16093	WGS84	GPS	Hunters Bay	9/4/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	52

Adult Fish Count Data

Watershed	Stream/Tributary	Reach	Date	Survey end GPS point	Index area	Species	Live/Carcass	Amount	Observer	Wind	Weather	Water	Visibility
Hunters Bay	Stream 1		9/3/2015	603	Riparian	Sockeye Salmon	Live	1	Tony S	Calm	clear	clear	Good
Hunters Bay	Stream 1		9/3/2015	603	Riparian	Sockeye Salmon	Carcass	1	Tony S	Calm	clear	clear	Good



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Region Southeast USGS Quad(s) Dixon Entrance D-1

AWC Number of Water Body 103-11-101-90-2015-0010

Name of Water body Hessa Lake (Stream 2) 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: _____	GIS Analyst	Date _____

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Coho salmon	September 3, 2015		X	X	<input checked="" type="checkbox"/>
Sockeye salmon	September 3, 2015	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 supplemental information. This package was prepared by Melanie Kadake and Cathy Needham. For question or additional information contact Ms. Kadake at 907-285-3665 or mjkadake13@gmail.com or Ms. Needham at 907-723-4436 or cathy@kaienvironmental.com

Name of Observer (please print): Tony Sanderson
 Signature: *Tony Sanderson*
 Agency: Hydaburg Cooperative Agency
 Address: P.O. Box 349
Hydaburg, AK 99922

Date: 1-25-16

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 11/13

Name of Area Biologist (please print): _____

Supplemental information for Hessa Lake Stream 2

Four baited minnow traps were soaked for 1.5 to 3.5 hours in stream 2 in Hessa Lake on September 3rd, 2015. Stream 2 is not listed but Hessa Lake is listed in the Anadromous Waters Catalog (103-11-101-90-2015-0010). This current nomination is to include the presence and rearing of Coho salmon, and spawning and presence of sockeye salmon. An ADFG fish trapping permit datasheet is attached to this nomination packet for further details on fish trapping efforts. Adult foot counts were performed on September 3rd, 2015 and adult sockeye were present (see attached datasheet).

Stream mapping and survey data was collected by the Hydaburg Cooperative Association Stream Survey crew for Stream 2 on September 3rd, 2015. Data was taken on three 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:

	Reach 1	Reach 2	Reach 3
Average stream gradient	1.7	3.9	6.5
Average bankfull width	3.6	6	6.6
Average channel bed width	3.7	3.6	4.7
Average incision depth	.45	.5	.6
Bank composition	Mixed	Mixed	Mixed
Dominant substrate	Small cobble	Small Cobble	Small Cobble
Sub-dominant substrate	Very Coarse Gravel	Very Coarse Gravel	Very Coarse Gravel
Large wood count	46	25	12
Key wood count	25	11	21
Macro-pool count	12	4	15

Reach 1 was classified FPS (Narrow Low Gradient Flood Plain Channel), Reach 2 was classified as MMS (Small Moderate Gradient Mixed Control Channel) and Reach 3 was classified as HCL (Low Incision, High Gradient). No anadromous fish were trapped in Reach 3; however, Dolly Varden were found in traps. Given Reach 3 was classified as HCL with an average stream gradient of 6.5%, it is unlikely that Coho salmon rear above Reach 2. The following picture shows the barrier documented on Stream 2 Reach 3.







Photo 1. The end of Reach 3 on Stream 2 of Hessa Lake.












Hessa Lake Stream 2

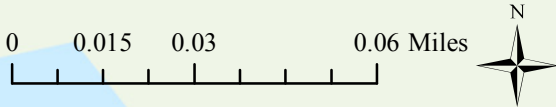
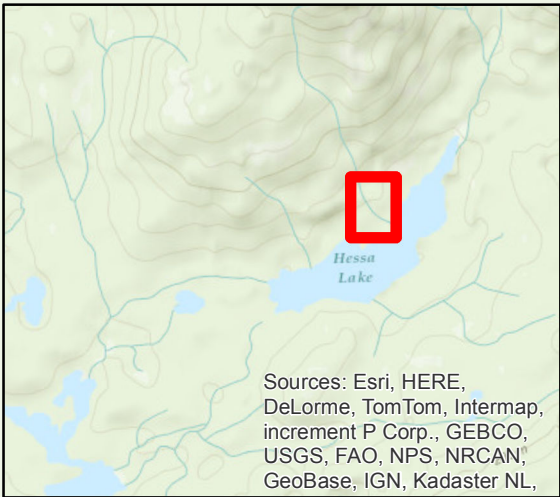


Adult observations

-  Pink salmon
-  Chum salmon
-  Coho salmon
-  Sockeye salmon

Key to Symbols

-  No fish collected
-  Sculpin
-  Dolly Varden
-  Rainbow / Steelhead
-  Cutthroat trout
-  Coho salmon
-  Anadromous waters catalog
-  Previously mapped streams
-  Newly mapped streams
-  Beaver dam
-  Waterfall



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

560
560

Reach 3

Reach 2

551

Reach 1

547

543

ADF&G permit no. SF2015-153

Summary report of fish collection activity.

The area biologist was contacted on: TIME/DATE: 10:01 am May 27th, 2015

Location				Coordinate		Observer name		Fish			Length (mm)
ID	Latitude	Longitude	Datum	determinati	Name of water	Date	(first name, middle	collection	Species	Life stage	No
(optional)				on method	body		initial, last name)	method			estimates/ranges
547	54.88287	-132.15219	WGS84	GPS	Hunters Bay	9/3/2015	Tony Sanderson	Minnow Trap	sculpin-unspecified	juvenile	120
547	54.88287	-132.15219	WGS84	GPS	Hunters Bay	9/3/2015	Tony Sanderson	Minnow Trap	sculpin-unspecified	juvenile	127
547	54.88287	-132.15219	WGS84	GPS	Hunters Bay	9/3/2015	Tony Sanderson	Minnow Trap	sculpin-unspecified	juvenile	121
547	54.88287	-132.15219	WGS84	GPS	Hunters Bay	9/3/2015	Tony Sanderson	Minnow Trap	sculpin-unspecified	juvenile	102
551	54.88366	-132.15359	WGS84	GPS	Hunters Bay	9/3/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	76
551	54.88366	-132.15359	WGS84	GPS	Hunters Bay	9/3/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	103
551	54.88366	-132.15359	WGS84	GPS	Hunters Bay	9/3/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	97
551	54.88366	-132.15359	WGS84	GPS	Hunters Bay	9/3/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	86
551	54.88366	-132.15359	WGS84	GPS	Hunters Bay	9/3/2015	Tony Sanderson	Minnow Trap	sculpin-unspecified	juvenile	20

Adult Foot Count Data

Watershed	Stream/Tributary	Reach	Date	Suvey end		Species	Live/Carcass	Amount	Observer	Wind	Weather	Water	Visibility
				GPS point	Index area								
Hunters Bay	Stream 2	3	9/3/2015	560	Mount	Sockeye Salmon	Live	110	Tony S	calm	fair	clear	good
Hunters Bay	Stream 2	3	9/3/2015	560	In Stream	Sockeye Salmon	Live	16	Tony S	calm	fair	clear	good
Hunters Bay	Stream 2	3	9/3/2015	560	Riparian	Sockeye Salmon	Live	63	Tony S	calm	fair	clear	good



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AWC Number of Water Body 103-11-101-90-2015-0010

Name of Water body Hessa Lake (Stream 3) USGS Name Local Name

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Revision Year: _____	Fisheries Scientist	Date _____
Revision to: Atlas _____ Catalog _____	Habitat Operations Manager	Date _____
Both _____	AWC Project Biologist	Date _____
Revision Code: _____	GIS Analyst	Date _____

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Coho salmon	September 3, 2015		X	X	<input checked="" type="checkbox"/>
Sockeye salmon	September 3, 2015	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 supplemental information. This package was prepared by Melanie Kadake and Cathy Needham. For question or additional information contact Ms. Kadake at 907-285-3665 or mjkadake13@gmail.com or Ms. Needham at 907-723-4436 or cathy@kaienvironmental.com

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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 11/13
 Name of Area Biologist (please print): _____

Supplemental information for Hessa Lake Stream 3

Four baited minnow traps were soaked for 1 to 15 hours in Stream 3 in Hessa Lake on September 3rd, 2015. Stream 3 is not listed but Hessa Lake is listed in the Anadromous Waters Catalog (103-11-101-90-2015-0010). This current nomination is to include the presence and rearing of Coho salmon, and spawning and presence of sockeye salmon. An ADFG fish trapping permit datasheet is attached to this nomination packet for further details on fish trapping efforts. Adult foot counts were performed on September 3rd, 2015 and adult sockeye were present (see attached datasheet).

Stream mapping and survey data was collected by the Hydaburg Cooperative Association Stream Survey crew for Stream 2 on September 3rd, 2015. Data was taken on three 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:

	Reach 1	Reach 2	Reach 3
Average stream gradient	1.3	4.8	7
Average bankfull width	7.2	6.5	4
Average channel bed width	5.9	4.5	3.4
Average incision depth	.53	.65	.41
Bank composition	Mixed	Mixed	Mixed
Dominant substrate	Small Cobble	Small Cobble	Small Cobble
Sub-dominant substrate	Very Coarse Gravel	Very Coarse Gravel	Large Cobble
Large wood count	61	29	17
Key wood count	15	11	8
Macro-pool count	14	11	9

Reach 1 was classified FPS (Narrow Low Gradient Flood Plain Channel), Reach 2 was classified as MCS (Medium Moderate Gradient Mixed Control Channel) and Reach 3 was classified as HCLw (Low Incision, High Gradient, Wetlands). No anadromous fish were trapped in Reach 3; however, Dolly Varden were found in traps. Given Reach 3 was classified as HCL with an average stream gradient of 7%, it is unlikely that Coho salmon rear above Reach 2. The following picture shows the barrier documented on Stream 3 Reach 3.

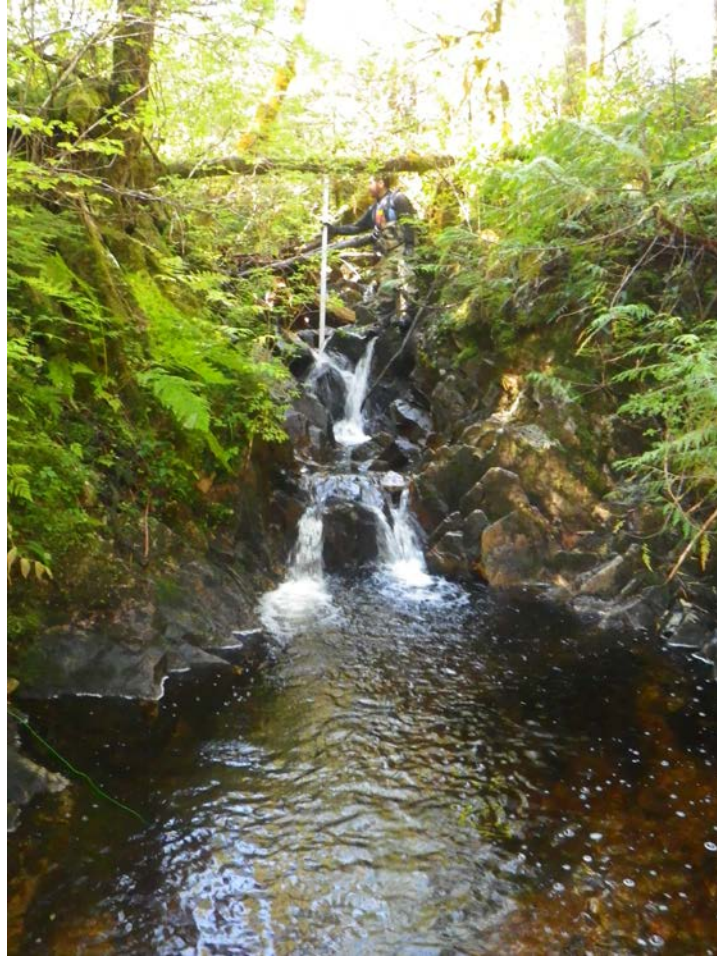


Photo 1. The waterfall at the end of Reach 3 on Stream 3 of Hessa Lake.

Hessa Lake Stream 3

Key to Symbols

- ⊗ No fish collected
- Sculpin
- ◆ Dolly Varden
- Rainbow / Steelhead
- ▲ Cutthroat trout
- Coho salmon
- ~ Anadromous waters catalog
- ~ Previously mapped streams
- ~ Newly mapped streams
- * Beaver dam
- × Waterfall

Adult observations

- 🐟 Pink salmon
- 🐟 Chum salmon
- 🐟 Coho salmon
- 🐟 Sockeye salmon



Reach 1

Reach 2

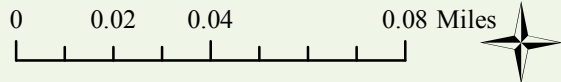
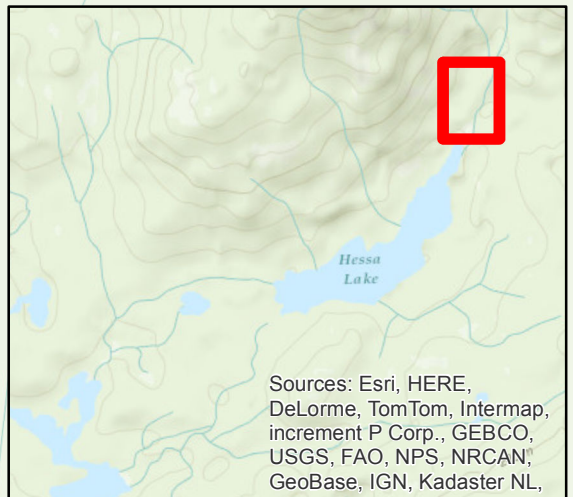
Reach 3

578

576

581

583 582



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

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Location ID (optional)		Latitude	Longitude	Datum	Coordinate determinati on 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
576	54.89371	-132.13955	WGS84	GPS	Hunters Bay	9/3/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	147	
576	54.89371	-132.13955	WGS84	GPS	Hunters Bay	9/3/2015	Tony Sanderson	Minnow Trap	sculpin-undefined	juvenile	112	
576	54.89371	-132.13955	WGS84	GPS	Hunters Bay	9/3/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	92	
581	54.89018	-132.14226	WGS84	GPS	Hunters Bay	9/3/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	102	
581	54.89018	-132.14226	WGS84	GPS	Hunters Bay	9/3/2015	Tony Sanderson	Minnow Trap	sculpin-undefined	juvenile	10	
581	54.89018	-132.14226	WGS84	GPS	Hunters Bay	9/3/2015	Tony Sanderson	Minnow Trap	sculpin-undefined	juvenile	110	
581	54.89018	-132.14226	WGS84	GPS	Hunters Bay	9/3/2015	Tony Sanderson	Minnow Trap	sculpin-undefined	juvenile	100	
581	54.89018	-132.14226	WGS84	GPS	Hunters Bay	9/3/2015	Tony Sanderson	Minnow Trap	sculpin-undefined	juvenile	86	
581	54.89018	-132.14226	WGS84	GPS	Hunters Bay	9/3/2015	Tony Sanderson	Minnow Trap	sculpin-undefined	juvenile	80	
581	54.89018	-132.14226	WGS84	GPS	Hunters Bay	9/3/2015	Tony Sanderson	Minnow Trap	sculpin-undefined	juvenile	106	
582	54.88975	-132.14222	WGS84	GPS	Hunters Bay	9/3/2015	Tony Sanderson	Minnow Trap	sculpin-undefined	juvenile	143	
582	54.88975	-132.14222	WGS84	GPS	Hunters Bay	9/3/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	121	
582	54.88975	-132.14222	WGS84	GPS	Hunters Bay	9/3/2015	Tony Sanderson	Minnow Trap	sculpin-undefined	juvenile	120	
582	54.88975	-132.14222	WGS84	GPS	Hunters Bay	9/3/2015	Tony Sanderson	Minnow Trap	sculpin-undefined	juvenile	122	
582	54.88975	-132.14222	WGS84	GPS	Hunters Bay	9/3/2015	Tony Sanderson	Minnow Trap	sculpin-undefined	juvenile	103	
583	54.88963	-132.14282	WGS84	GPS	Hunters Bay	9/3/2015	Tony Sanderson	Minnow Trap	sculpin-undefined	juvenile	142	
583	54.88963	-132.14282	WGS84	GPS	Hunters Bay	9/3/2015	Tony Sanderson	Minnow Trap	sculpin-undefined	juvenile	79	
585	54.88041	-132.16128	WGS84	GPS	Hunters Bay	9/4/2015	Tony Sanderson	Minnow Trap	sculpin-undefined	juvenile	155	
585	54.88041	-132.16128	WGS84	GPS	Hunters Bay	9/4/2015	Tony Sanderson	Minnow Trap	sculpin-undefined	juvenile	97	
585	54.88041	-132.16128	WGS84	GPS	Hunters Bay	9/4/2015	Tony Sanderson	Minnow Trap	sculpin-undefined	juvenile	96	
585	54.88041	-132.16128	WGS84	GPS	Hunters Bay	9/4/2015	Tony Sanderson	Minnow Trap	sculpin-undefined	juvenile	115	
585	54.88041	-132.16128	WGS84	GPS	Hunters Bay	9/4/2015	Tony Sanderson	Minnow Trap	sculpin-undefined	juvenile	112	
585	54.88041	-132.16128	WGS84	GPS	Hunters Bay	9/4/2015	Tony Sanderson	Minnow Trap	sculpin-undefined	juvenile	120	
585	54.88041	-132.16128	WGS84	GPS	Hunters Bay	9/4/2015	Tony Sanderson	Minnow Trap	sculpin-undefined	juvenile	105	
585	54.88041	-132.16128	WGS84	GPS	Hunters Bay	9/4/2015	Tony Sanderson	Minnow Trap	sculpin-undefined	juvenile	100	
585	54.88041	-132.16128	WGS84	GPS	Hunters Bay	9/4/2015	Tony Sanderson	Minnow Trap	sculpin-undefined	juvenile	104	
585	54.88041	-132.16128	WGS84	GPS	Hunters Bay	9/4/2015	Tony Sanderson	Minnow Trap	sculpin-undefined	juvenile	105	
585	54.88041	-132.16128	WGS84	GPS	Hunters Bay	9/4/2015	Tony Sanderson	Minnow Trap	sculpin-undefined	juvenile	92	

Adult Foot Count Data

Watershed	Stream/Tributary	Reach	Date	Survey end GPS point	Index area	Species	Live/Carcass	Amount	Observer	Wind	Weather	Water	Visibility
Hunters Bay	Stream 3	1&2	9/3/2015	578	In Stream	Sockeye Salmon	Live	1	Tony S	Calm	clear	clear	Good
Hunters Bay	Stream 3	1&2	9/3/2015	578	In Stream	Sockeye Salmon	Carcass	1	Tony S	Calm	clear	clear	Good



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

Nomination Form
Anadromous Waters Catalog

Region Southeast USGS Quad(s) Craig B-3

AWC Number of Water Body 103-40-10090

Name of Water body Shelikof Creek (Stream 1) 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: _____	GIS Analyst	Date _____

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Coho salmon	June 15, July 13, Sept 14, 2015		X	X	<input checked="" type="checkbox"/>
Chum salmon	September 14, 2015	X		X	<input checked="" type="checkbox"/>
Pink salmon	September 14, 2015	X		X	<input checked="" type="checkbox"/>
Rainbow trout	June 15, July 13, 2015			X	<input type="checkbox"/>
Dolly Varden	June 15, June 30, 2015			X	<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 supplemental information. This package was prepared by Melanie Kadake and Cathy Needham. For question or additional information contact Ms. Kadake at 907-285-3665 or mjkadake13@gmail.com or Ms. Needham at 907-723-4436 or cathy@kaienvironmental.com

Name of Observer (please print): Tony Sanderson
Signature: *Tony Sanderson* Date: 1-25-16
Agency: Hydaburg Cooperative Agency
Address: P.O. Box 349
Hydaburg, AK 99922

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 11/13
Name of Area Biologist (please print): _____

Supplemental information for Shelikof Creek Stream 1

Nine baited minnow traps were soaked for 2 to 4 hours in Stream 1 in Shelikof Creek on June 15th, 2015 and July 13th, 2015. Stream 1 is listed in the Anadromous Waters Catalog (103-40-10090). This current nomination is to include the presence and rearing of Coho salmon, and the spawning and presence of adult sockeye and pink salmon. It is also noted that there are rainbow trout and Dolly Varden present in this stream. An ADFG fish trapping permit datasheet is attached to this nomination packet for further details on fish trapping efforts. Adult foot counts were performed on September 14th, 2015 and Coho, chum, and pink salmon were present (see attached datasheet).

Stream mapping and survey data was collected by the Hydaburg Cooperative Association Stream Survey crew for Stream 1 on June 15th & 16th, 2015. Data was taken on ten 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:

	Reach 1	Reach 2	Reach 3
Average stream gradient	0.43	1.3	0.43
Average bankfull width	20.5	15.9	15.2
Average channel bed width	17.9	15.7	15.7
Average incision depth	0.75	0.85	0.62
Bank composition	Mixed	Mixed	Organic
Dominant substrate	Very Coarse Gravel	Very Coarse Gravel	Very Coarse Gravel
Sub-dominant substrate	Small Cobble	Small Cobble	Coarse Gravel
Large wood count	3	30	97
Key wood count	0	22	43
Macro-pool count	1	7	22

	Reach 4	Reach 5	Reach 6
Average stream gradient	1.3	.87	1.7
Average bankfull width	20.5	13.6	9.7
Average channel bed width	19.1	11.5	10.1
Average incision depth	0.65	0.83	0.65
Bank composition	Mixed	Alluvium	Mixed
Dominant substrate	Very Coarse Gravel	Very Coarse Gravel	Small Cobble
Sub-dominant substrate	Coarse Gravel	Small Cobble	Very Coarse gravel
Large wood count	118	163	45
Key wood count	63	71	23
Macro-pool count	22	29	11

	Reach 7	Reach 8	Reach 9
Average stream gradient	3.9	3.5	6.55
Average bankfull width	12.3	11.3	9
Average channel bed width	8.5	8.1	7.8
Average incision depth	1.1	.71	0.72
Bank composition	Mixed	Mixed	Mixed
Dominant substrate	Small cobble	Small cobble	Small boulder
Sub-dominate substrate	Very coarse gravel	Very coarse gravel	Large cobble
Large wood count	117	138	10
Key wood count	60	64	7
Macro-pool count	42	42	11

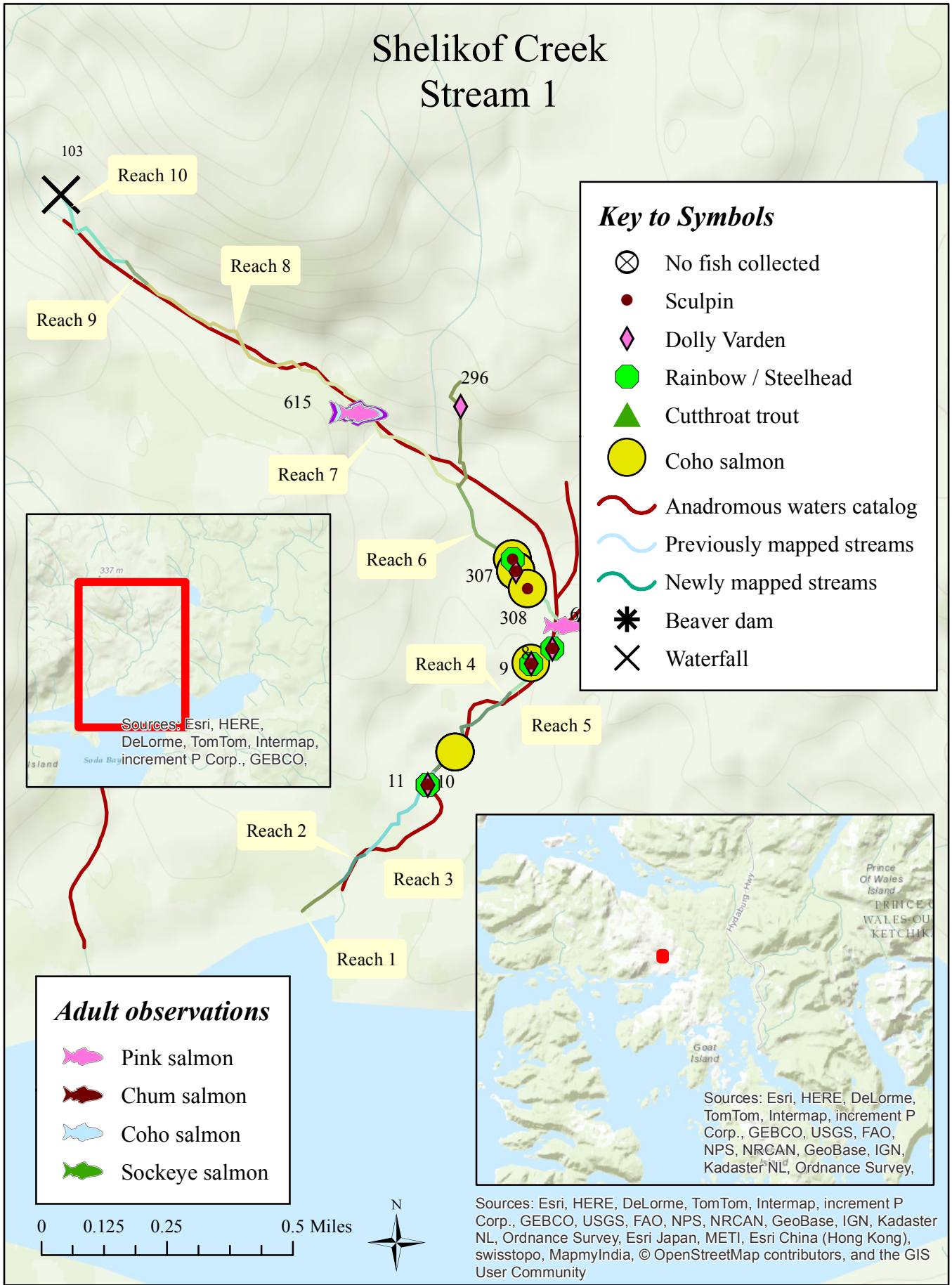
	Reach 10
Average stream gradient	5.23
Average bankfull width	10.7
Average channel bed width	9.1
Average incision depth	0.72
Bank composition	Mixed
Dominant substrate	Small boulder
Sub-dominate substrate	Large Med Boulder
Large wood count	68
Key wood count	27
Macro-pool count	11

Reach 1 & 2 were classified ESL (Large Estuarine Channel), Reaches 3-6 were classified as FPM (Moderate Width Low Gradient Flood Plain Channel), Reach 7 was classified as MMM (Medium Width Moderate Gradient Mixed Control Channel), Reach 8 was classified as MCM (Medium Moderate Gradient Contained Channel), Reach 9 was classified as MCS (Small Moderate Gradient Contained Channel), and Reach 10 was classified as HCV (Upper Valley, High Gradient Channel). They classified a waterfall at the end of Reach 10. The following picture shows the barrier documented on Stream 1 Reach 10.



Photo 1. The waterfall at the end of Reach 10 on Stream 1 of Shelikof Creek.

Shelikof Creek Stream 1



ADF&G permit no. SF2015-153**Summary report of fish collection activity.****The area biologist was contacted on: TIME/DATE: 10:01 am May 27th, 2015**

Location ID (optional)		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	
6	55.28540	-132.96641	WGS84	GPS	Shelikof	6/15/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	78
6	55.28540	-132.96641	WGS84	GPS	Shelikof	6/15/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	48
6	55.28540	-132.96641	WGS84	GPS	Shelikof	6/15/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	56
6	55.28540	-132.96641	WGS84	GPS	Shelikof	6/15/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	84
6	55.28540	-132.96641	WGS84	GPS	Shelikof	6/15/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	82
6	55.28540	-132.96641	WGS84	GPS	Shelikof	6/15/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	130
6	55.28540	-132.96641	WGS84	GPS	Shelikof	6/15/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	
6	55.28540	-132.96641	WGS84	GPS	Shelikof	6/15/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	58
7	55.28497	-132.96736	WGS84	GPS	Shelikof	6/15/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	96
7	55.28497	-132.96736	WGS84	GPS	Shelikof	6/15/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	125
7	55.28497	-132.96736	WGS84	GPS	Shelikof	6/15/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	173
8	55.28427	-132.96891	WGS84	GPS	Shelikof	6/15/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	168
8	55.28427	-132.96891	WGS84	GPS	Shelikof	6/15/2015	Tony Sanderson	Minnow Trap	rainbow trout	juvenile	90
8	55.28427	-132.96891	WGS84	GPS	Shelikof	6/15/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	110
8	55.28427	-132.96891	WGS84	GPS	Shelikof	6/15/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	85
8	55.28427	-132.96891	WGS84	GPS	Shelikof	6/15/2015	Tony Sanderson	Minnow Trap	sculpin-unspecified	juvenile	76
8	55.28427	-132.96891	WGS84	GPS	Shelikof	6/15/2015	Tony Sanderson	Minnow Trap	sculpin-unspecified	juvenile	70
9	55.28385	-132.97000	WGS84	GPS	Shelikof	6/15/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	91
9	55.28385	-132.97000	WGS84	GPS	Shelikof	6/15/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	60
9	55.28385	-132.97000	WGS84	GPS	Shelikof	6/15/2015	Tony Sanderson	Minnow Trap	rainbow trout	juvenile	95
9	55.28385	-132.97000	WGS84	GPS	Shelikof	6/15/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	84
9	55.28385	-132.97000	WGS84	GPS	Shelikof	6/15/2015	Tony Sanderson	Minnow Trap	sculpin-unspecified	juvenile	68
9	55.28385	-132.97000	WGS84	GPS	Shelikof	6/15/2015	Tony Sanderson	Minnow Trap	sculpin-unspecified	juvenile	67
9	55.28385	-132.97000	WGS84	GPS	Shelikof	6/15/2015	Tony Sanderson	Minnow Trap	sculpin-unspecified	juvenile	62
10	55.28131	-132.97387	WGS84	GPS	Shelikof	6/15/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	48
10	55.28131	-132.97387	WGS84	GPS	Shelikof	6/15/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	45
10	55.28131	-132.97387	WGS84	GPS	Shelikof	6/15/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	44
10	55.28131	-132.97387	WGS84	GPS	Shelikof	6/15/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	55
10	55.28131	-132.97387	WGS84	GPS	Shelikof	6/15/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	55
10	55.28131	-132.97387	WGS84	GPS	Shelikof	6/15/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	52
11	55.28039	-132.97526	WGS84	GPS	Shelikof	6/15/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	148
11	55.28039	-132.97526	WGS84	GPS	Shelikof	6/15/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	194
11	55.28039	-132.97526	WGS84	GPS	Shelikof	6/15/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	120

ADF&G permit no. SF2015-153**Summary report of fish collection activity.****The area biologist was contacted on: TIME/DATE: 10:01 am May 27th, 2015**

11	55.28039	-132.97526	WGS84	GPS	Shelikof	6/15/2015	Tony Sanderson	Minnow Trap	rainbow trout	juvenile	162
11	55.28039	-132.97526	WGS84	GPS	Shelikof	6/15/2015	Tony Sanderson	Minnow Trap	sculpin-unspecified	juvenile	112
11	55.28039	-132.97526	WGS84	GPS	Shelikof	6/15/2015	Tony Sanderson	Minnow Trap	rainbow trout	juvenile	97
11	55.28039	-132.97526	WGS84	GPS	Shelikof	6/15/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	135
11	55.28039	-132.97526	WGS84	GPS	Shelikof	6/15/2015	Tony Sanderson	Minnow Trap	sculpin-unspecified	juvenile	105
11	55.28039	-132.97526	WGS84	GPS	Shelikof	6/15/2015	Tony Sanderson	Minnow Trap	sculpin-unspecified	juvenile	98
11	55.28039	-132.97526	WGS84	GPS	Shelikof	6/15/2015	Tony Sanderson	Minnow Trap	sculpin-unspecified	juvenile	104
11	55.28039	-132.97526	WGS84	GPS	Shelikof	6/15/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	100
11	55.28039	-132.97526	WGS84	GPS	Shelikof	6/15/2015	Tony Sanderson	Minnow Trap	rainbow trout	juvenile	96
11	55.28039	-132.97526	WGS84	GPS	Shelikof	6/15/2015	Tony Sanderson	Minnow Trap	sculpin-unspecified	juvenile	77
306	55.28686	-132.97087	WGS84	GPS	Shelikof	7/13/2015	Tony Sanderson	Minnow Trap	rainbow trout	juvenile	105
306	55.28686	-132.97087	WGS84	GPS	Shelikof	7/13/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	57
306	55.28686	-132.97087	WGS84	GPS	Shelikof	7/13/2015	Tony Sanderson	Minnow Trap	sculpin-unspecified	juvenile	78
306	55.28686	-132.97087	WGS84	GPS	Shelikof	7/13/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	75
306	55.28686	-132.97087	WGS84	GPS	Shelikof	7/13/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	53
307	55.28650	-132.97071	WGS84	GPS	Shelikof	7/13/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	82
307	55.28650	-132.97071	WGS84	GPS	Shelikof	7/13/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	62
307	55.28650	-132.97071	WGS84	GPS	Shelikof	7/13/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	98
307	55.28650	-132.97071	WGS84	GPS	Shelikof	7/13/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	68
307	55.28650	-132.97071	WGS84	GPS	Shelikof	7/13/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	77
307	55.28650	-132.97071	WGS84	GPS	Shelikof	7/13/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	69
307	55.28650	-132.97071	WGS84	GPS	Shelikof	7/13/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	71
307	55.28650	-132.97071	WGS84	GPS	Shelikof	7/13/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	63
307	55.28650	-132.97071	WGS84	GPS	Shelikof	7/13/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	54
307	55.28650	-132.97071	WGS84	GPS	Shelikof	7/13/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	61
307	55.28650	-132.97071	WGS84	GPS	Shelikof	7/13/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	78
307	55.28650	-132.97071	WGS84	GPS	Shelikof	7/13/2015	Tony Sanderson	Minnow Trap	sculpin-unspecified	juvenile	82
307	55.28650	-132.97071	WGS84	GPS	Shelikof	7/13/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	62
308	55.28600	-132.97012	WGS84	GPS	Shelikof	7/13/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	68
308	55.28600	-132.97012	WGS84	GPS	Shelikof	7/13/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	87
308	55.28600	-132.97012	WGS84	GPS	Shelikof	7/13/2015	Tony Sanderson	Minnow Trap	sculpin-unspecified	juvenile	95
296	55.29127	-132.97340	WGS86	GPS	Shelikof	6/30/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	96
296	55.29127	-132.97340	WGS86	GPS	Shelikof	6/30/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	85

Adult Foot Count Data

Watershed	Stream/Tributary	Reach	Suvey end		Index area	Species	Live/Carcas	Amount	Observer	Wind	Weather	Water	Visibility
			Date	GPS point									
Shelikof Creek	stream 1		9/14/2015	612	In Stream	Pink Salmon	Live	544	Tony S	West	clear		ok
Shelikof Creek	stream 1		9/14/2015	612	In Stream	Pink Salmon	Carcass	22	Tony S	West	clear		ok
Shelikof Creek	stream 1		9/14/2015	612	Riparian	Pink Salmon	Carcass	46	Tony S	West	clear		ok
Shelikof Creek	stream 1		9/14/2015	615	Intertidal	Pink Salmon	Live	1140	Tony S	West	clear		ok
Shelikof Creek	stream 1		9/14/2015	615	Intertidal	Pink Salmon	Carcass	137	Tony S	West	clear		ok
Shelikof Creek	stream 1		9/14/2015	615	In Stream	Pink Salmon	Live	5784	Tony S	West	clear		ok
Shelikof Creek	stream 1		9/14/2015	615	In Stream	Pink Salmon	Carcass	779	Tony S	West	clear		ok
Shelikof Creek	stream 1		9/14/2015	615	Riparian	Pink Salmon	Carcass	479	Tony S	West	clear		ok
Shelikof Creek	stream 1		9/14/2015	615	Intertidal	Chum Salmon	Carcass	7	Tony S	West	clear		ok
Shelikof Creek	stream 1		9/14/2015	615	In Stream	Chum Salmon	Live	23	Tony S	West	clear		ok
Shelikof Creek	stream 1		9/14/2015	615	In Stream	Chum Salmon	Carcass	89	Tony S	West	clear		ok
Shelikof Creek	stream 1		9/14/2015	615	Riparian	Chum Salmon	Carcass	130	Tony S	West	clear		ok
Shelikof Creek	stream 1		9/14/2015	615	In Stream	Coho Salmon	Live	54	Tony S	West	clear		ok



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

Nomination Form
Anadromous Waters Catalog

Region Southeast USGS Quad(s) Craig B-3

AWC Number of Water Body 103-40-10090-2010

Name of Water body Shelikof Creek (Stream 1, Trib 1) 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: _____	GIS Analyst	Date _____

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Coho salmon	June 18, 2015		X	X	<input checked="" type="checkbox"/>
Dolly Varden	June 18 and 14, 2015			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 supplemental information. This package was prepared by Melanie Kadake and Cathy Needham. For question or additional information contact Ms. Kadake at 907-285-3665 or mjkadake13@gmail.com or Ms. Needham at 907-723-4436 or cathy@kaienvironmental.com

Name of Observer (please print): Tony Sanderson
Signature: *Tony Sanderson* Date: 1-27-16
Agency: Hydaburg Cooperative Agency
Address: P.O. Box 349
Hydaburg, AK 99922

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 11/13
Name of Area Biologist (please print): _____

Supplemental information for Shelikof Creek Stream 1 Tributary 1

Nine baited minnow traps were soaked for 1 to 6 hours in Stream 1 Tributary 1 in Shelikof Creek on June 18th, 2015. Stream 1 Tributary 1 is listed in the Anadromous Waters Catalog (103-40-10090-2010). This current nomination is to include the presence and rearing of Coho salmon. It is also noted that there are Dolly Varden present in this 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 Hyدابurg Cooperative Association Stream Survey crew for Stream 1 Tributary 1 on June 18th, 2015. Data was taken on seven 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:

	Reach 11	Reach 12	Reach 13
Average stream gradient	1.7	.85	9.5
Average bankfull width	9.5	7.1	7.2
Average channel bed width	7.5	7.7	7.2
Average incision depth	0.85	0.66	0.77
Bank composition	Mixed	Mixed	Mixed
Dominant substrate	Small Cobble	Small Cobble	Small Cobble
Sub-dominate substrate	Very Coarse Gravel	Very Coarse Gravel	Very Coarse Gravel
Large wood count	47	61	9
Key wood count	22	34	5
Macro-pool count	22	13	5

	Reach 14	Reach 15	Reach 16
Average stream gradient	3.5	2.6	2.6
Average bankfull width	3.7	4.9	6
Average channel bed width	2.9	5.1	7.6
Average incision depth	1.16	0.61	0.7
Bank composition	Organic	Mixed	Mixed
Dominant substrate	N/A	N/A	Small Cobble
Sub-dominate substrate	N/A	Large Cobble	Very Coarse gravel
Large wood count	0	33	19
Key wood count	0	12	10
Macro-pool count	1	7	7

	Reach 17
Average stream gradient	1.7
Average bankfull width	4.9
Average channel bed width	4.9
Average incision depth	0.58
Bank composition	Mixed
Dominant substrate	Very Coarse Gravel
Sub-dominate substrate	Small Cobble
Large wood count	39
Key wood count	23
Macro-pool count	5

Reach 11-13 & 15-17 were classified LCS (Small Low Gradient Contained Channel). Reach 14 could not be classified. There was no fish barrier on Reach 17, stream mapping stopped due to lots of blow down and difficult terrain. The following picture shows the blow down documented on Stream 1 Reach 17. The upper extent of fish habitat was not found.



Photo 1. Area of blow down at the end of Reach 17 on Stream 1 Tributary 1 of Shelikof Creek.

ADF&G permit no. SF2015-153

Summary report of fish collection activity.

The area biologist was contacted on: TIME/DATE: 10:01 am May 27th, 2015

Location ID (optional)	Latitude	Longitude	Datum	Coordinate determinati on 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
171	55.28783	-132.96258	WGS84	GPS	Shelikof	6/18/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	91
180	55.29021	-132.96235	WGS84	GPS	Shelikof	6/18/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	72
180	55.29021	-132.96235	WGS84	GPS	Shelikof	6/18/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	75
180	55.29021	-132.96235	WGS84	GPS	Shelikof	6/18/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	118
180	55.29021	-132.96235	WGS84	GPS	Shelikof	6/18/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	77
180	55.29021	-132.96235	WGS84	GPS	Shelikof	6/18/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	68
183	55.29072	-132.96358	WGS84	GPS	Shelikof	6/18/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	54
184	55.29085	-132.96379	WGS84	GPS	Shelikof	6/18/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	115
184	55.29085	-132.96379	WGS84	GPS	Shelikof	6/18/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	72
184	55.29085	-132.96379	WGS84	GPS	Shelikof	6/18/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	54
184	55.29085	-132.96379	WGS84	GPS	Shelikof	6/18/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	73
266	55.28848	-132.96165	WGS84	GPS	Shelikof	6/24/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	105



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

Nomination Form
Anadromous Waters Catalog

Region Southeast USGS Quad(s) Craig B-3

AWC Number of Water Body 103-40-10130

Name of Water body Soda Creek (Stream 1) 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: _____	GIS Analyst	Date _____

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Coho salmon	June 23-24, 2015		X	X	<input checked="" type="checkbox"/>
Dolly Varden	June 23-24, 2015			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 supplemental information. This package was prepared by Melanie Kadake and Cathy Needham. For question or additional information contact Ms. Kadake at 907-285-3665 or mjkadake13@gmail.com or Ms. Needham at 907-723-4436 or cathy@kaienvironmental.com

Name of Observer (please print): Tony Sanderson
 Signature: *Tony Sanderson* Date: 1-25-16
 Agency: Hydaburg Cooperative Agency
 Address: P.O. Box 349
Hydaburg, AK 99922

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 11/13
 Name of Area Biologist (please print): _____

Supplemental information for Stream 1 of Soda Creek

Nine baited minnow traps were soaked for 1 to 5 hours in Stream 1 in Soda Creek on June 23rd & 24th, 2015. Soda Creek is listed in the Anadromous Waters Catalog (103-40-10130). This current nomination is to include the presence and rearing of Coho salmon. It is also noted that there are Dolly Varden present in this stream. An ADFG fish trapping permit datasheet is attached to this nomination packet for further details on fish trapping efforts. Adult foot counts were performed on June 23rd, 2015 and adult chum and Coho salmon were present (see attached datasheet).

Stream mapping and survey data was collected by the Hydaburg Cooperative Association Stream Survey crew for Stream 1 on June 23rd, 2015. Data was taken on six 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:

	Reach 1	Reach 2	Reach 3
Average stream gradient	1.7	.43	1.3
Average bankfull width	11.5	12.6	18.1
Average channel bed width	10.4	11.43	11.6
Average incision depth	0.84	1.1	1.15
Bank composition	Organic	Organic	Organic
Dominant substrate	Very Coarse Gravel	Very Coarse Gravel	Very Coarse Gravel
Sub-dominant substrate	Coarse Gravel	Coarse Gravel	Coarse Gravel
Large wood count	5	15	58
Key wood count	1	5	20
Macro-pool count	3	7	11

	Reach 4	Reach 5	Reach 6
Average stream gradient	.43	.43	1.7
Average bankfull width	10.2	18.5	7.7
Average channel bed width	12.4	10.5	13.1
Average incision depth	1.1	1	0.79
Bank composition	Organic	Mixed	Mixed
Dominant substrate	Coarse Gravel	Very Coarse Gravel	Very Coarse Gravel
Sub-dominant substrate	Very Coarse Gravel	Coarse Gravel	Coarse Gravel
Large wood count	27	100	156
Key wood count	13	35	66
Macro-pool count	8	22	16

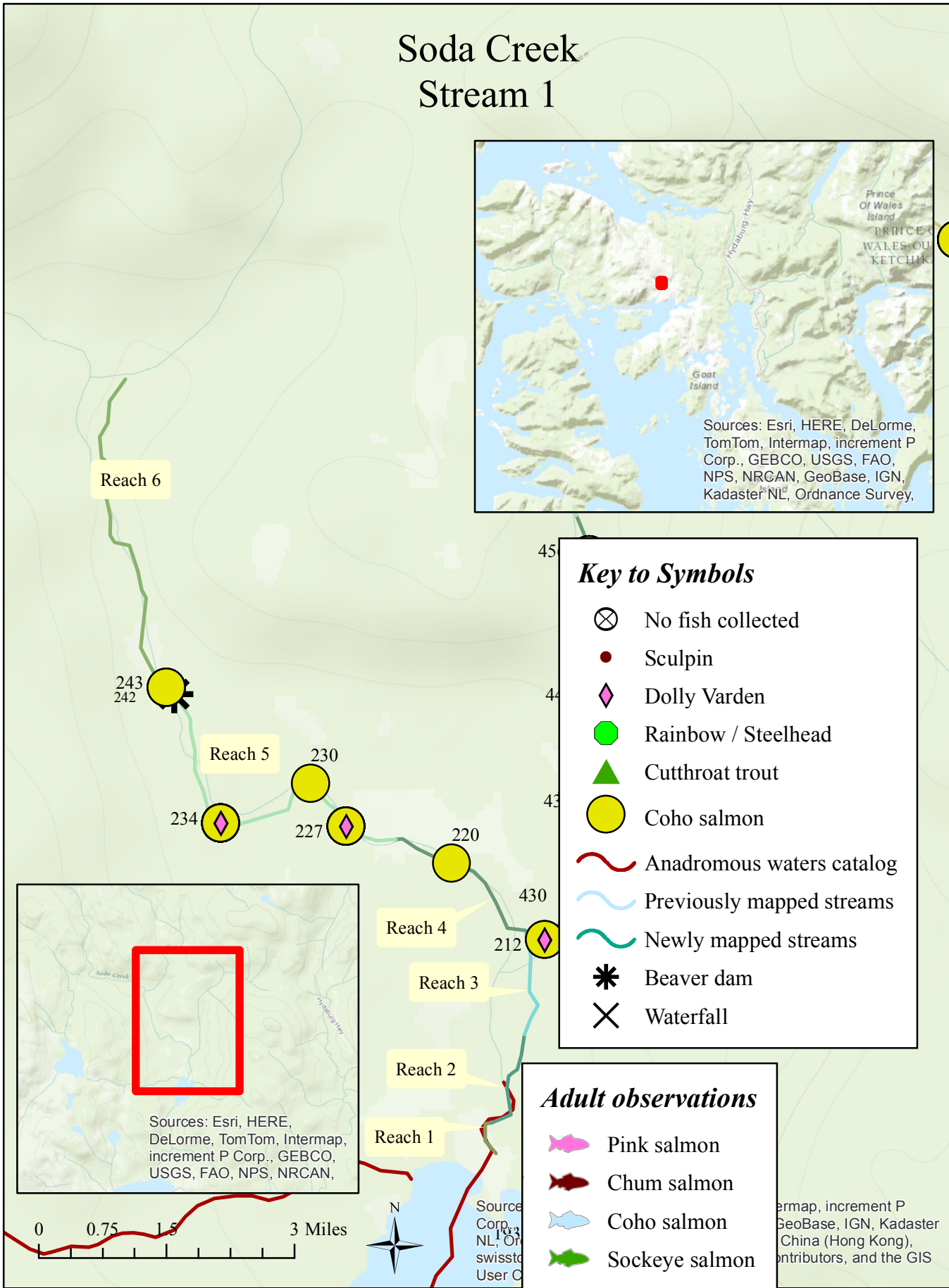
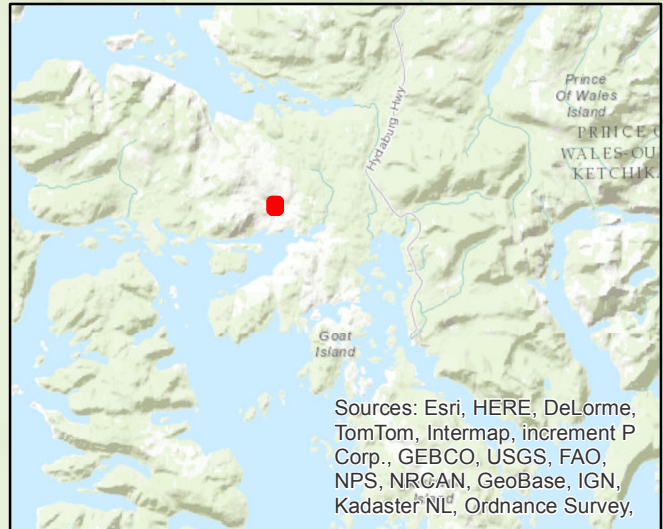
Reach 1 was classified PAM (Moderate Width Placid Flow Channel), Reaches 2 & 3 were classified as FPM (Moderate Width Low Gradient Floodplain Channel), Reach 4 was classified as LCM (Medium Low Gradient Contained Channel), Reach 5 was classified as FPL (Wide Low Gradient Flood Plain Channel), and Reach 6 was classified as FPS (Narrow Low Gradient Flood Plain Channel). There was no classified fish barrier on Reach 6, therefore the upper extent of fish

habitat was not found. The following picture shows where the crew ended the survey on Stream 1 at the end of Reach 6.



Photo 1. At the end of Reach 6 on Stream 1 of Soda Creek.

Soda Creek Stream 1

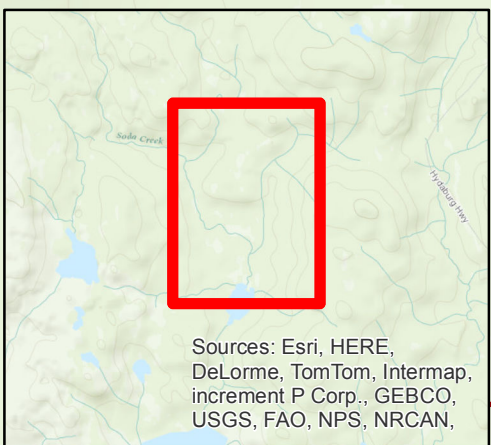


Key to Symbols

- ⊗ No fish collected
- Sculpin
- ◆ Dolly Varden
- Rainbow / Steelhead
- ▲ Cutthroat trout
- Coho salmon
- ~ Anadromous waters catalog
- ~ Previously mapped streams
- ~ Newly mapped streams
- * Beaver dam
- × Waterfall

Adult observations

- 🐟 Pink salmon
- 🐟 Chum salmon
- 🐟 Coho salmon
- 🐟 Sockeye salmon



ermap, increment P
GeoBase, IGN, Kadaster
China (Hong Kong),
contributors, and the GIS

ADF&G permit no. SF2015-153**Summary report of fish collection activity.****The area biologist was contacted on: TIME/DATE: 10:01 am May 27th, 2015**

Location ID		Coordinate		Name of water body	Date	Observer name (first name, middle initial, last name)	Fish collection			Length (mm)	
(optional)	Latitude	Longitude	Datum				method	method	Species	Life stage	No estimates/ranges
212	55.30064	-132.90898	WGS85	GPS	Soda Bay	6/23/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	76
212	55.30064	-132.90898	WGS85	GPS	Soda Bay	6/23/2015	Tony Sanderson	Minnow Trap	threespine stickleba	juvenile	51
212	55.30064	-132.90898	WGS85	GPS	Soda Bay	6/23/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	112
212	55.30064	-132.90898	WGS85	GPS	Soda Bay	6/23/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	120
212	55.30064	-132.90898	WGS85	GPS	Soda Bay	6/23/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	73
212	55.30064	-132.90898	WGS85	GPS	Soda Bay	6/23/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	77
212	55.30064	-132.90898	WGS85	GPS	Soda Bay	6/23/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	80
220	55.30208	-132.91199	WGS86	GPS	Soda Bay	6/24/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	63
227	55.30279	-132.91541	WGS86	GPS	Soda Bay	6/24/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	66
227	55.30279	-132.91541	WGS86	GPS	Soda Bay	6/24/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	70
227	55.30279	-132.91541	WGS86	GPS	Soda Bay	6/24/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	82
227	55.30279	-132.91541	WGS86	GPS	Soda Bay	6/24/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	46
227	55.30279	-132.91541	WGS86	GPS	Soda Bay	6/24/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	38
227	55.30279	-132.91541	WGS86	GPS	Soda Bay	6/24/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	51
227	55.30279	-132.91541	WGS86	GPS	Soda Bay	6/24/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	50
227	55.30279	-132.91541	WGS86	GPS	Soda Bay	6/24/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	45
227	55.30279	-132.91541	WGS86	GPS	Soda Bay	6/24/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	48
227	55.30279	-132.91541	WGS86	GPS	Soda Bay	6/24/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	54
227	55.30279	-132.91541	WGS86	GPS	Soda Bay	6/24/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	44
227	55.30279	-132.91541	WGS86	GPS	Soda Bay	6/24/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	48
230	55.30359	-132.91655	WGS85	GPS	Soda Bay	6/23/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	81
234	55.30287	-132.91948	WGS85	GPS	Soda Bay	6/23/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	66
234	55.30287	-132.91948	WGS85	GPS	Soda Bay	6/23/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	70
234	55.30287	-132.91948	WGS85	GPS	Soda Bay	6/23/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	100
234	55.30287	-132.91948	WGS85	GPS	Soda Bay	6/23/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	
234	55.30287	-132.91948	WGS85	GPS	Soda Bay	6/23/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	68
234	55.30287	-132.91948	WGS85	GPS	Soda Bay	6/23/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	115
234	55.30287	-132.91948	WGS85	GPS	Soda Bay	6/23/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	80
234	55.30287	-132.91948	WGS85	GPS	Soda Bay	6/23/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	120
234	55.30287	-132.91948	WGS85	GPS	Soda Bay	6/23/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	70
234	55.30287	-132.91948	WGS85	GPS	Soda Bay	6/23/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	46
234	55.30287	-132.91948	WGS85	GPS	Soda Bay	6/23/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	45
234	55.30287	-132.91948	WGS85	GPS	Soda Bay	6/23/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	70

ADF&G permit no. SF2015-153**Summary report of fish collection activity.****The area biologist was contacted on: TIME/DATE: 10:01 am May 27th, 2015**

Location ID (optional)	Latitude	Longitude	Datum	Coordinate determinati on 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
234	55.30287	-132.91948	WGS85	GPS	Soda Bay	6/23/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	68
234	55.30287	-132.91948	WGS85	GPS	Soda Bay	6/23/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	66
234	55.30287	-132.91948	WGS85	GPS	Soda Bay	6/23/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	76
234	55.30287	-132.91948	WGS85	GPS	Soda Bay	6/23/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	52
234	55.30287	-132.91948	WGS85	GPS	Soda Bay	6/23/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	47
234	55.30287	-132.91948	WGS85	GPS	Soda Bay	6/23/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	68
234	55.30287	-132.91948	WGS85	GPS	Soda Bay	6/23/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	37
234	55.30287	-132.91948	WGS85	GPS	Soda Bay	6/23/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	39
234	55.30287	-132.91948	WGS85	GPS	Soda Bay	6/23/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	48
234	55.30287	-132.91948	WGS85	GPS	Soda Bay	6/23/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	58
234	55.30287	-132.91948	WGS85	GPS	Soda Bay	6/23/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	37
243	55.30541	-132.92121	WGS85	GPS	Soda Bay	6/23/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	45
243	55.30541	-132.92121	WGS85	GPS	Soda Bay	6/23/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	59
243	55.30541	-132.92121	WGS85	GPS	Soda Bay	6/23/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	47



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

Nomination Form
Anadromous Waters Catalog

Region Southeast USGS Quad(s) Craig B-3

AWC Number of Water Body 103-40-10130

Name of Water body Soda Creek (Stream 1, Tributary 1) 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: _____	GIS Analyst	Date _____

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Coho salmon	August 12, 14, 19, 20, 2015		X	X	<input checked="" type="checkbox"/>
Dolly Varden	August 12, 14, 19, 20, 2015			X	<input type="checkbox"/>
Rainbow trout	August 20, 2015			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 supplemental information. This package was prepared by Melanie Kadake and Cathy Needham. For question or additional information contact Ms. Kadake at 907-285-3665 or mjkadake13@gmail.com or Ms. Needham at 907-723-4436 or cathy@kaienvironmental.com

Name of Observer (please print): Tony Sanderson
 Signature: *Tony Sanderson* Date: 1-25-16
 Agency: Hydaburg Cooperative Agency
 Address: P.O. Box 349
Hydaburg, AK 99922

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 11/13
 Name of Area Biologist (please print): _____

Supplemental information for Stream 1 Tributary 1 of Soda Creek

Eighteen baited minnow traps were soaked for 1 to 5 hours in Stream 1 Tributary 1 in Soda Creek on August 12th, 14th, 19th & 20th of 2015. Soda Creek is listed in the Anadromous Waters Catalog (103-40-10130). This current nomination is to include the presence and rearing of Coho salmon. It is also noted that there are Dolly Varden and rainbow trout present in this 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 Tributary 1 on August 12th, 14th, 29th & 20th, 2015. Data was taken on Twelve 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:

	Reach 1	Reach 2	Reach 3
Average stream gradient	1.7	3	4.8
Average bankfull width	8.8	7	5.6
Average channel bed width	7.3	7.3	4.6
Average incision depth	0.71	0.69	0.9
Bank composition	Mixed	Mixed	Mixed
Dominant substrate	Very Coarse Gravel	Small Cobble	Small Cobble
Sub-dominate substrate	Coarse Gravel	Large Cobble	Large Cobble
Large wood count	64	40	14
Key wood count	32	17	10
Macro-pool count	23	19	23

	Reach 4	Reach 5	Reach 6
Average stream gradient	4.8	1.7	2.2
Average bankfull width	4.9	6.5	6.7
Average channel bed width	5.9	6	5.7
Average incision depth	0.59	0.51	0.63
Bank composition	Mixed	Organic	Mixed
Dominant substrate	Small Cobble	Very Coarse Gravel	Very Coarse Gravel
Sub-dominate substrate	Very Coarse Gravel	Coarse Gravel	Small Cobble
Large wood count	63	93	67
Key wood count	34	50	39
Macro-pool count	23	33	28

	Reach 7	Reach 8	Reach 9
Average stream gradient	2.6	2.2	6.1
Average bankfull width	3.6	3.7	2.4
Average channel bed width	4.6	3.7	2.6
Average incision depth	0.56	0.41	0.63
Bank composition	Mixed	Mixed	Mixed
Dominant substrate	Small Cobble	Small Cobble	Very Coarse Gravel
Sub-dominate substrate	Very Coarse Gravel	Very Coarse Gravel	Bedrock
Large wood count	28	71	34
Key wood count	17	27	6
Macro-pool count	28	17	12

	Reach 10	Reach 11	Reach 12
Average stream gradient	2.6	7.4	
Average bankfull width	1.6	1.2	2.1
Average channel bed width	2.2	1.7	3.1
Average incision depth	0.49	0.36	0.45
Bank composition	Organic	Mixed	Mixed
Dominant substrate	Very Coarse Gravel	Very Coarse Gravel	Small Cobble
Sub-dominate substrate	Small Cobble	Coarse Gravel	Very Coarse Gravel
Large wood count	65	43	20
Key wood count	16	8	5
Macro-pool count	21	9	5

Reach 1 & 5 were classified as FPS (Narrow Low Gradient Flood Plain Channel), Reaches 2, 3, 4, 6, 7, & 8 were classified as MMS (Small Moderate Gradient Mixed Control Channel), Reach 9 & 12 were classified as HCLw (Low Incision High Gradient Wetland Phase), Reach 10 was classified as MMO (Micro Moderate Gradient Mixed Control Channel), and Reach 11 was classified as HCO (Micro High Gradient Channel). There was no classified fish barrier on Stream 1 Tributary 1. The following picture shows where the crew ended the survey on Stream 1 Tributary 1.



Photo 1. At the end of Reach 10 on Stream 1 Tributary 1 of Soda Creek.

ADF&G permit no. SF2015-153**Summary report of fish collection activity.****The area biologist was contacted on: TIME/DATE: 10:01 am May 27th, 2015**

Location ID (optional)		Coordinate determination			Name of water body		Observer name (first name, middle initial, last name)		Fish collection method		Length (mm) No estimates/ranges	
Latitude	Longitude	Datum	method	body	Date			method	Species	Life stage		
430	55.30146	-132.90816	WGS87	GPS	Soda Bay	8/12/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	153	
430	55.30146	-132.90816	WGS87	GPS	Soda Bay	8/12/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	225	
430	55.30146	-132.90816	WGS87	GPS	Soda Bay	8/12/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	260	
430	55.30146	-132.90816	WGS87	GPS	Soda Bay	8/12/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	152	
430	55.30146	-132.90816	WGS87	GPS	Soda Bay	8/12/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	160	
430	55.30146	-132.90816	WGS87	GPS	Soda Bay	8/12/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	185	
430	55.30146	-132.90816	WGS87	GPS	Soda Bay	8/12/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	97	
430	55.30146	-132.90816	WGS87	GPS	Soda Bay	8/12/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	154	
430	55.30146	-132.90816	WGS87	GPS	Soda Bay	8/12/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	142	
430	55.30146	-132.90816	WGS87	GPS	Soda Bay	8/12/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	110	
436	55.30330	-132.90732	WGS87	GPS	Soda Bay	8/12/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	255	
436	55.30330	-132.90732	WGS87	GPS	Soda Bay	8/12/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	65	
436	55.30330	-132.90732	WGS87	GPS	Soda Bay	8/12/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	80	
436	55.30330	-132.90732	WGS87	GPS	Soda Bay	8/12/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	60	
436	55.30330	-132.90732	WGS87	GPS	Soda Bay	8/12/2015	Tony Sanderson	Minnow Trap	sculpin-unspecified	juvenile	93	
436	55.30330	-132.90732	WGS87	GPS	Soda Bay	8/12/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	98	
436	55.30330	-132.90732	WGS87	GPS	Soda Bay	8/12/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	90	
436	55.30330	-132.90732	WGS87	GPS	Soda Bay	8/12/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	98	
436	55.30330	-132.90732	WGS87	GPS	Soda Bay	8/12/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	97	
436	55.30330	-132.90732	WGS87	GPS	Soda Bay	8/12/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	103	
436	55.30330	-132.90732	WGS87	GPS	Soda Bay	8/12/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	63	
436	55.30330	-132.90732	WGS87	GPS	Soda Bay	8/12/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	65	
442	55.30527	-132.90723	WGS87	GPS	Soda Bay	8/12/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	80	
442	55.30527	-132.90723	WGS87	GPS	Soda Bay	8/12/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	82	
442	55.30527	-132.90723	WGS87	GPS	Soda Bay	8/12/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	78	
442	55.30527	-132.90723	WGS87	GPS	Soda Bay	8/12/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	112	
442	55.30527	-132.90723	WGS87	GPS	Soda Bay	8/12/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	98	
442	55.30527	-132.90723	WGS87	GPS	Soda Bay	8/12/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	42	
442	55.30527	-132.90723	WGS87	GPS	Soda Bay	8/12/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	86	
454	55.30722	-132.90731	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	62	
454	55.30722	-132.90731	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	70	
454	55.30722	-132.90731	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	54	
454	55.30722	-132.90731	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	50	

ADF&G permit no. SF2015-153**Summary report of fish collection activity.****The area biologist was contacted on: TIME/DATE: 10:01 am May 27th, 2015**

Location ID (optional)		Coordinate determination			Name of water body		Observer name (first name, middle initial, last name)		Fish collection method		Length (mm) No estimates/ranges	
Latitude	Longitude	Datum	method	body	Date			method	Species	Life stage		
456	55.30778	-132.90740	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	42	
456	55.30778	-132.90740	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	85	
456	55.30778	-132.90740	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	70	
456	55.30778	-132.90740	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	47	
456	55.30778	-132.90740	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	79	
456	55.30778	-132.90740	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	50	
456	55.30778	-132.90740	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	67	
456	55.30778	-132.90740	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	45	
456	55.30778	-132.90740	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	44	
456	55.30778	-132.90740	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	44	
456	55.30778	-132.90740	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	43	
456	55.30778	-132.90740	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	54	
456	55.30778	-132.90740	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	46	
456	55.30778	-132.90740	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	46	
460	55.30907	-132.90773	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	42	
460	55.30907	-132.90773	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile		
460	55.30907	-132.90773	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	40	
460	55.30907	-132.90773	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	110	
460	55.30907	-132.90773	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	74	
460	55.30907	-132.90773	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	115	
460	55.30907	-132.90773	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	85	
460	55.30907	-132.90773	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	67	
460	55.30907	-132.90773	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	76	
460	55.30907	-132.90773	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	67	
460	55.30907	-132.90773	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	50	
460	55.30907	-132.90773	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	60	
460	55.30907	-132.90773	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	91	
460	55.30907	-132.90773	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	75	
460	55.30907	-132.90773	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	74	
460	55.30907	-132.90773	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	120	
460	55.30907	-132.90773	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	73	
460	55.30907	-132.90773	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	62	
460	55.30907	-132.90773	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	58	

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Location ID (optional)		Coordinate determination			Name of water body		Observer name (first name, middle initial, last name)		Fish collection method		Length (mm) No estimates/ranges	
Latitude	Longitude	Datum	method	body	Date			method	Species	Life stage		
460	55.30907	-132.90773	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	53	
460	55.30907	-132.90773	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	67	
460	55.30907	-132.90773	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	85	
460	55.30907	-132.90773	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	66	
460	55.30907	-132.90773	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	61	
460	55.30907	-132.90773	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	77	
460	55.30907	-132.90773	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	78	
460	55.30907	-132.90773	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	66	
460	55.30907	-132.90773	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	50	
460	55.30907	-132.90773	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	52	
460	55.30907	-132.90773	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	85	
460	55.30907	-132.90773	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	66	
460	55.30907	-132.90773	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	78	
460	55.30907	-132.90773	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	75	
460	55.30907	-132.90773	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	70	
460	55.30907	-132.90773	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	76	
460	55.30907	-132.90773	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	60	
460	55.30907	-132.90773	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	80	
460	55.30907	-132.90773	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	73	
460	55.30907	-132.90773	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	55	
462	55.30964	-132.90763	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	50	
462	55.30964	-132.90763	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	67	
462	55.30964	-132.90763	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	98	
462	55.30964	-132.90763	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	62	
462	55.30964	-132.90763	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	158	
462	55.30964	-132.90763	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	70	
462	55.30964	-132.90763	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	57	
462	55.30964	-132.90763	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	48	
462	55.30964	-132.90763	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	50	
462	55.30964	-132.90763	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	105	
462	55.30964	-132.90763	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	70	
462	55.30964	-132.90763	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	70	
462	55.30964	-132.90763	WGS87	GPS	Soda Bay	8/14/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	46	

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Location ID (optional)		Coordinate determination			Name of water body		Observer name (first name, middle initial, last name)		Fish collection method		Length (mm) No estimates/ranges	
Latitude	Longitude	Datum	method	body	Date			method	Species	Life stage		
473	55.31157	-132.90351	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	70	
473	55.31157	-132.90351	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	66	
473	55.31157	-132.90351	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	74	
473	55.31157	-132.90351	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	70	
473	55.31157	-132.90351	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	77	
473	55.31157	-132.90351	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	69	
473	55.31157	-132.90351	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	72	
473	55.31157	-132.90351	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	70	
473	55.31157	-132.90351	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	71	
473	55.31157	-132.90351	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	70	
473	55.31157	-132.90351	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	58	
473	55.31157	-132.90351	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	82	
473	55.31157	-132.90351	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	75	
473	55.31157	-132.90351	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	77	
473	55.31157	-132.90351	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	66	
473	55.31157	-132.90351	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	65	
473	55.31157	-132.90351	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	70	
473	55.31157	-132.90351	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	73	
473	55.31157	-132.90351	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	72	
473	55.31157	-132.90351	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	62	
473	55.31157	-132.90351	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	62	
473	55.31157	-132.90351	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	68	
473	55.31157	-132.90351	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	55	
473	55.31157	-132.90351	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	56	
474	55.31171	-132.90395	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	72	
474	55.31171	-132.90395	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	67	
474	55.31171	-132.90395	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	75	
474	55.31171	-132.90395	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	85	
477	55.31196	-132.90257	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	47	
477	55.31196	-132.90257	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	77	
477	55.31196	-132.90257	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	70	
477	55.31196	-132.90257	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	78	
477	55.31196	-132.90257	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	77	

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Latitude	Longitude	Datum	method	body	Date	initial, last name)	method	Species	Life stage			
477	55.31196	-132.90257	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	78	
477	55.31196	-132.90257	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	70	
477	55.31196	-132.90257	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	74	
477	55.31196	-132.90257	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	64	
477	55.31196	-132.90257	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	65	
477	55.31196	-132.90257	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	74	
477	55.31196	-132.90257	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	64	
477	55.31196	-132.90257	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	70	
477	55.31196	-132.90257	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	65	
477	55.31196	-132.90257	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	45	
477	55.31196	-132.90257	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	72	
477	55.31196	-132.90257	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	77	
477	55.31196	-132.90257	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	65	
477	55.31196	-132.90257	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	75	
477	55.31196	-132.90257	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	77	
477	55.31196	-132.90257	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	47	
477	55.31196	-132.90257	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	75	
477	55.31196	-132.90257	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	53	
477	55.31196	-132.90257	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	78	
477	55.31196	-132.90257	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	75	
477	55.31196	-132.90257	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	74	
477	55.31196	-132.90257	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	75	
477	55.31196	-132.90257	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	62	
477	55.31196	-132.90257	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	64	
483	55.31307	-132.90033	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	150	
483	55.31307	-132.90033	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	163	
483	55.31307	-132.90033	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	81	
483	55.31307	-132.90033	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	77	
483	55.31307	-132.90033	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	77	
483	55.31307	-132.90033	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	78	
483	55.31307	-132.90033	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	82	
483	55.31307	-132.90033	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	70	
483	55.31307	-132.90033	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	72	

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Latitude	Longitude	Datum	method	body	Date			method	Species	Life stage		
483	55.31307	-132.90033	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	83	
483	55.31307	-132.90033	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	56	
483	55.31307	-132.90033	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	65	
483	55.31307	-132.90033	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	57	
483	55.31307	-132.90033	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	72	
483	55.31307	-132.90033	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	67	
483	55.31307	-132.90033	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	82	
483	55.31307	-132.90033	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	78	
483	55.31307	-132.90033	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	73	
483	55.31307	-132.90033	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	60	
483	55.31307	-132.90033	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	90	
483	55.31307	-132.90033	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	104	
483	55.31307	-132.90033	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	100	
483	55.31307	-132.90033	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	71	
483	55.31307	-132.90033	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	84	
483	55.31307	-132.90033	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	90	
483	55.31307	-132.90033	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	67	
483	55.31307	-132.90033	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	77	
483	55.31307	-132.90033	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	81	
483	55.31307	-132.90033	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	110	
483	55.31307	-132.90033	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	75	
483	55.31307	-132.90033	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	52	
483	55.31307	-132.90033	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	63	
483	55.31307	-132.90033	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	48	
483	55.31307	-132.90033	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	74	
483	55.31307	-132.90033	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	69	
483	55.31307	-132.90033	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	53	
483	55.31307	-132.90033	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	90	
483	55.31307	-132.90033	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	75	
483	55.31307	-132.90033	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	83	
483	55.31307	-132.90033	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	85	
483	55.31307	-132.90033	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	68	
483	55.31307	-132.90033	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	91	

ADF&G permit no. SF2015-153**Summary report of fish collection activity.****The area biologist was contacted on: TIME/DATE: 10:01 am May 27th, 2015**

Location ID (optional)		Coordinate determination			Name of water body		Observer name (first name, middle initial, last name)		Fish collection method		Length (mm) No estimates/ranges	
Latitude	Longitude	Datum	method	body	Date			method	Species	Life stage		
483	55.31307	-132.90033	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	85	
483	55.31307	-132.90033	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	82	
483	55.31307	-132.90033	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	80	
483	55.31307	-132.90033	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	84	
483	55.31307	-132.90033	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	49	
483	55.31307	-132.90033	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	75	
483	55.31307	-132.90033	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	65	
483	55.31307	-132.90033	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	78	
483	55.31307	-132.90033	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	160	
493	55.31355	-132.89532	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	78	
493	55.31355	-132.89532	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	165	
493	55.31355	-132.89532	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	85	
493	55.31355	-132.89532	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	76	
493	55.31355	-132.89532	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	85	
493	55.31355	-132.89532	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	80	
493	55.31355	-132.89532	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	68	
493	55.31355	-132.89532	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	70	
493	55.31355	-132.89532	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	97	
493	55.31355	-132.89532	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	102	
493	55.31355	-132.89532	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	103	
493	55.31355	-132.89532	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	81	
493	55.31355	-132.89532	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	60	
493	55.31355	-132.89532	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	84	
493	55.31355	-132.89532	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	76	
493	55.31355	-132.89532	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	85	
493	55.31355	-132.89532	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	74	
493	55.31355	-132.89532	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	72	
493	55.31355	-132.89532	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	80	
493	55.31355	-132.89532	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	61	
493	55.31355	-132.89532	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	110	
493	55.31355	-132.89532	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	97	
493	55.31355	-132.89532	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	70	
493	55.31355	-132.89532	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	70	

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Location ID (optional)		Coordinate determination			Name of water body		Observer name (first name, middle initial, last name)		Fish collection method		Length (mm) No estimates/ranges	
Latitude	Longitude	Datum	method	body	Date			method	Species	Life stage		
493	55.31355	-132.89532	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	72	
493	55.31355	-132.89532	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	62	
493	55.31355	-132.89532	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	80	
493	55.31355	-132.89532	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	84	
493	55.31355	-132.89532	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	93	
497	55.31295	-132.89340	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	83	
497	55.31295	-132.89340	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	75	
497	55.31295	-132.89340	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	85	
497	55.31295	-132.89340	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	76	
497	55.31295	-132.89340	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	85	
497	55.31295	-132.89340	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	89	
497	55.31295	-132.89340	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	74	
497	55.31295	-132.89340	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	75	
497	55.31295	-132.89340	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	67	
497	55.31295	-132.89340	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	82	
497	55.31295	-132.89340	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	70	
497	55.31295	-132.89340	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	70	
497	55.31295	-132.89340	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	49	
497	55.31295	-132.89340	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	64	
497	55.31295	-132.89340	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	70	
497	55.31295	-132.89340	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	75	
497	55.31295	-132.89340	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile		
497	55.31295	-132.89340	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	61	
497	55.31295	-132.89340	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	64	
497	55.31295	-132.89340	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	92	
497	55.31295	-132.89340	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	100	
497	55.31295	-132.89340	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	72	
497	55.31295	-132.89340	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	70	
497	55.31295	-132.89340	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	90	
497	55.31295	-132.89340	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	55	
497	55.31295	-132.89340	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	86	
497	55.31295	-132.89340	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	62	
497	55.31295	-132.89340	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	90	

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Latitude	Longitude	Datum	method	body	Date			method	Species	Life stage		
497	55.31295	-132.89340	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	58	
497	55.31295	-132.89340	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	84	
497	55.31295	-132.89340	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	81	
497	55.31295	-132.89340	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	70	
497	55.31295	-132.89340	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	57	
497	55.31295	-132.89340	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	73	
497	55.31295	-132.89340	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	56	
497	55.31295	-132.89340	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	70	
497	55.31295	-132.89340	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	72	
497	55.31295	-132.89340	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	47	
497	55.31295	-132.89340	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	50	
497	55.31295	-132.89340	WGS87	GPS	Soda Bay	8/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	66	
511	55.31276	-132.89120	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	74	
511	55.31276	-132.89120	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	72	
511	55.31276	-132.89120	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	80	
511	55.31276	-132.89120	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	72	
511	55.31276	-132.89120	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	63	
511	55.31276	-132.89120	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	88	
511	55.31276	-132.89120	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	71	
511	55.31276	-132.89120	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	62	
511	55.31276	-132.89120	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	85	
511	55.31276	-132.89120	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	80	
511	55.31276	-132.89120	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	50	
511	55.31276	-132.89120	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	77	
511	55.31276	-132.89120	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	74	
511	55.31276	-132.89120	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	85	
511	55.31276	-132.89120	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	75	
511	55.31276	-132.89120	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	52	
511	55.31276	-132.89120	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	70	
511	55.31276	-132.89120	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	80	
511	55.31276	-132.89120	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	46	
514	55.31334	-132.88992	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	60	
514	55.31334	-132.88992	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	70	

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Location ID (optional)		Coordinate determination			Name of water body		Observer name (first name, middle initial, last name)		Fish collection method		Length (mm) No estimates/ranges	
Latitude	Longitude	Datum	method	body	Date			method	Species	Life stage		
514	55.31334	-132.88992	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	47	
514	55.31334	-132.88992	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile		
514	55.31334	-132.88992	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	67	
514	55.31334	-132.88992	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	58	
514	55.31334	-132.88992	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	48	
514	55.31334	-132.88992	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	61	
514	55.31334	-132.88992	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	57	
516	55.31338	-132.88929	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	92	
516	55.31338	-132.88929	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	59	
516	55.31338	-132.88929	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	50	
516	55.31338	-132.88929	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	65	
516	55.31338	-132.88929	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	76	
516	55.31338	-132.88929	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	52	
516	55.31338	-132.88929	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	50	
516	55.31338	-132.88929	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	75	
516	55.31338	-132.88929	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	66	
516	55.31338	-132.88929	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	48	
516	55.31338	-132.88929	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	52	
516	55.31338	-132.88929	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	60	
516	55.31338	-132.88929	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	55	
516	55.31338	-132.88929	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	46	
520	55.31372	-132.88800	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	rainbow trout	juvenile	115	
520	55.31372	-132.88800	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	105	
520	55.31372	-132.88800	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	90	
520	55.31372	-132.88800	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	78	
523	55.31418	-132.88699	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	87	
523	55.31418	-132.88699	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	81	
523	55.31418	-132.88699	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	68	
523	55.31418	-132.88699	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	70	
523	55.31418	-132.88699	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	82	
523	55.31418	-132.88699	WGS87	GPS	Soda Bay	8/20/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	73	



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

Nomination Form
Anadromous Waters Catalog

Region Southeast USGS Quad(s) Craig B-3

AWC Number of Water Body 103-40-10130-2125

Name of Water body Soda Creek (Stream 2, Tributary 1) 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: _____	GIS Analyst	Date _____

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Coho salmon	August 21, 2015		X	X	<input checked="" type="checkbox"/>
Cutthroat trout	August 21, 2015			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 supplemental information. This package was prepared by Melanie Kadake and Cathy Needham. For question or additional information contact Ms. Kadake at 907-285-3665 or mjkadake13@gmail.com or Ms. Needham at 907-723-4436 or cathy@kaienvironmental.com

Name of Observer (please print): Tony Sanderson
 Signature: *Tony Sanderson* Date: 1-25-16
 Agency: Hydaburg Cooperative Agency
 Address: P.O. Box 349
Hydaburg, AK 99922

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 11/13
 Name of Area Biologist (please print): _____

Supplemental information for Stream 2 Tributary 1 of Soda Creek

Three baited minnow traps were soaked for 1 to 3 hours in Stream 2 Tributary 1 in Soda Creek on August 21st, 2015. Soda Creek is listed in the Anadromous Waters Catalog (103-40-10130-2125). This current nomination is to include the presence and rearing of Coho salmon. It is also noted that there are cutthroat trout present in this stream. An ADFG fish trapping permit datasheet is attached to this nomination packet for further details on fish trapping efforts. Adult foot counts were not performed.

Stream mapping and survey data was collected by the Hydaburg Cooperative Association Stream Survey crew for Stream 2 Tributary 1 on August 21st, 2015. Data was taken on one reach (reach numbers in the tables correspond to a master dataset; see attached figure for locations). The stream survey data are in the following table:

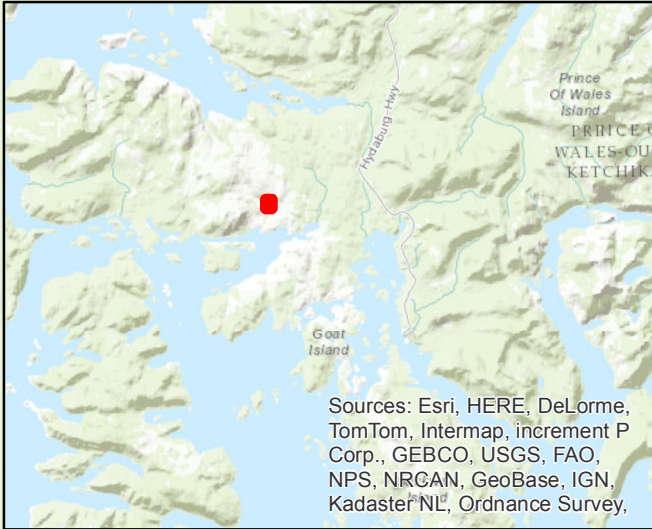
	Reach 1
Average stream gradient	12.3
Average bankfull width	2.7
Average channel bed width	2.3
Average incision depth	0.5
Bank composition	Mixed
Dominant substrate	Very Coarse Gravel
Sub-dominant substrate	Small Cobble
Large wood count	62
Key wood count	14
Macro-pool count	6

Reach 1 was classified as HCLw (LowIncision High Gradient, Wetland Phase). There was no classified fish barrier on Stream 2 Tributary 1 but the crew stopped due to high gradient. The following pictures shows where the crew ended the survey on Stream 2 Tributary 1.



Photo 1. At the end of Reach 1 on Stream 2 Tributary 1 of Soda Creek.

Soda Creek Stream 2 Tributary 1



Key to Symbols

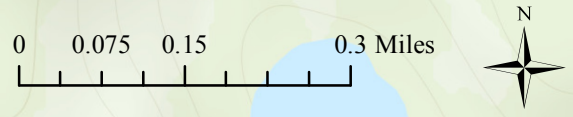
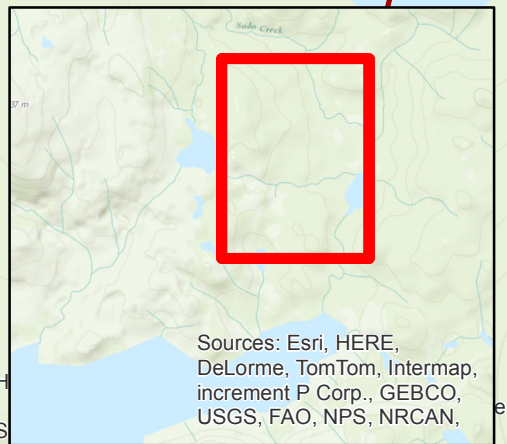
- ⊗ No fish collected
- Sculpin
- ◆ Dolly Varden
- Rainbow / Steelhead
- ▲ Cutthroat trout
- Coho salmon
- ~ Anadromous waters catalog
- ~ Previously mapped streams
- ~ Newly mapped streams
- * Beaver dam
- × Waterfall

538
534
529

Reach 1

Adult observations

- 🐟 Pink salmon
- 🐟 Chum salmon
- 🐟 Coho salmon
- 🐟 Sockeye salmon



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

ADF&G permit no. SF2015-153

Summary report of fish collection activity.

The area biologist was contacted on: TIME/DATE: 10:01 am May 27th, 2015

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
529	55.29537	-132.93116	WGS87	GPS	Soda Bay	8/21/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	77
529	55.29537	-132.93116	WGS87	GPS	Soda Bay	8/21/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	52
534	55.29577	-132.93337	WGS87	GPS	Soda Bay	8/21/2015	Tony Sanderson	Minnow Trap	cutthroat trout	juvenile	75
534	55.29577	-132.93337	WGS87	GPS	Soda Bay	8/21/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	62
538	55.29565	-132.93585	WGS87	GPS	Soda Bay	8/21/2015	Tony Sanderson	Minnow Trap	cutthroat trout	juvenile	88



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

Nomination Form
Anadromous Waters Catalog

Region Southeast USGS Quad(s) Craig B-3

AWC Number of Water Body 103-40-10130

Name of Water body Soda Creek (Stream 3) 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: _____	GIS Analyst	Date _____

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Coho salmon	June 19, 2015		X	X	<input checked="" type="checkbox"/>
Dolly Varden	June 19, 2015			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 supplemental information. This package was prepared by Melanie Kadake and Cathy Needham. For question or additional information contact Ms. Kadake at 907-285-3665 or mjkadake13@gmail.com or Ms. Needham at 907-723-4436 or cathy@kaienvironmental.com

Name of Observer (please print): Tony Sanderson
 Signature: *Tony Sanderson*
 Agency: Hydaburg Cooperative Agency
 Address: P.O. Box 349
Hydaburg, AK 99922

Date: 1-25-16

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 11/13
 Name of Area Biologist (please print): _____

Supplemental information for Stream 3 of Soda Creek

Four baited minnow traps were soaked for 2 hours in Stream 3 in Soda Creek on June 19th, 2015. Soda Creek is listed in the Anadromous Waters Catalog (103-40-10130). This current nomination is to include the presence and rearing of Coho salmon. It is also noted that there are Dolly Varden present in this stream. An ADFG fish trapping permit datasheet is attached to this nomination packet for further details on fish trapping efforts. Adult foot counts were not performed.

Stream mapping and survey data was collected by the Hydaburg Cooperative Association Stream Survey crew for Stream 3 on June 19th, 2015. Data was taken on three 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:

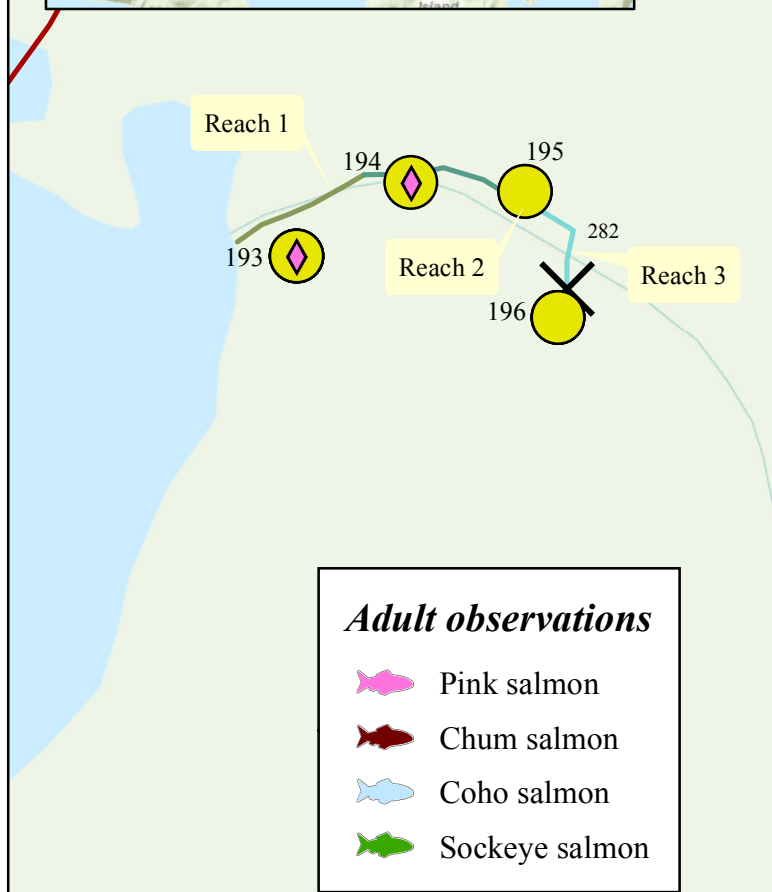
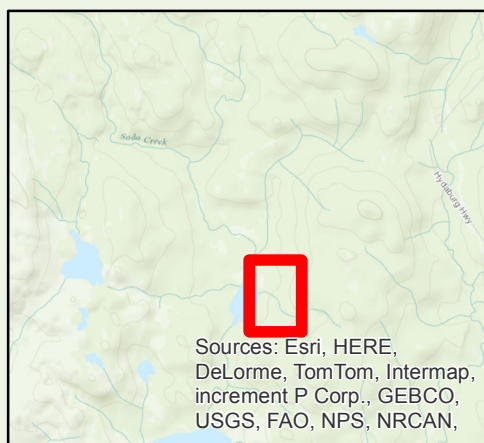
	Reach 1	Reach 2	Reach 3
Average stream gradient	2.2	6.1	17.6
Average bankfull width	2.2	2.6	3.8
Average channel bed width	1.7	3.1	3
Average incision depth	0.53	0.44	0.84
Bank composition	Mixed	Mixed	Mixed
Dominant substrate	Very Coarse Gravel	Small Cobble	Large Medium Boulder
Sub-dominate substrate	Small Cobble	Very Coarse Gravel	Bedrock
Large wood count	21	29	28
Key wood count	7	6	4
Macro-pool count	6	6	9

Reach 1 was classified as FPS (Narrow Low Gradient Flood Plain Channel), Reach 2 was classified as MCS (Small Moderate Gradient Contained Channel), and Reach 3 was classified as HCV (Upper Valley High Gradient Channel). They classified a waterfall fish barrier on Stream 3. The following pictures shows the classified waterfall at the end of Reach 3 on Stream 3 in Soda Creek.







Photo 1. Waterfall at the end of Reach 3 on Stream 3 on Soda Creek.












Soda Creek Stream 3

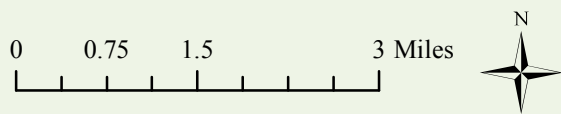


Adult observations

-  Pink salmon
-  Chum salmon
-  Coho salmon
-  Sockeye salmon

Key to Symbols

-  No fish collected
-  Sculpin
-  Dolly Varden
-  Rainbow / Steelhead
-  Cutthroat trout
-  Coho salmon
-  Anadromous waters catalog
-  Previously mapped streams
-  Newly mapped streams
-  Beaver dam
-  Waterfall



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

ADF&G permit no. SF2015-153**Summary report of fish collection activity.****The area biologist was contacted on: TIME/DATE: 10:01 am May 27th, 2015**

Location ID (optional)				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
193	55.29527	-132.90912	WGS85	GPS	Soda Bay	6/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	100
193	55.29527	-132.90912	WGS85	GPS	Soda Bay	6/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	72
193	55.29527	-132.90912	WGS85	GPS	Soda Bay	6/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	66
193	55.29527	-132.90912	WGS85	GPS	Soda Bay	6/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	97
193	55.29527	-132.90912	WGS85	GPS	Soda Bay	6/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	73
193	55.29527	-132.90912	WGS85	GPS	Soda Bay	6/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	83
193	55.29527	-132.90912	WGS85	GPS	Soda Bay	6/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	65
193	55.29527	-132.90912	WGS85	GPS	Soda Bay	6/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	73
193	55.29527	-132.90912	WGS85	GPS	Soda Bay	6/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	62
194	55.29561	-132.90817	WGS85	GPS	Soda Bay	6/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	82
194	55.29561	-132.90817	WGS85	GPS	Soda Bay	6/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	110
194	55.29561	-132.90817	WGS85	GPS	Soda Bay	6/19/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	98
195	55.29556	-132.90724	WGS85	GPS	Soda Bay	6/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	48
195	55.29556	-132.90724	WGS85	GPS	Soda Bay	6/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	47
196	55.29497	-132.90697	WGS85	GPS	Soda Bay	6/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	60
196	55.29497	-132.90697	WGS85	GPS	Soda Bay	6/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	56
196	55.29497	-132.90697	WGS85	GPS	Soda Bay	6/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	46
196	55.29497	-132.90697	WGS85	GPS	Soda Bay	6/19/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	45



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

Nomination Form
Anadromous Waters Catalog

Region Southeast USGS Quad(s) Craig B-3

AWC Number of Water Body 103-40-10130

Name of Water body Soda 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: _____	GIS Analyst	Date _____

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Coho salmon	June 17, 2015 , August 27, 2015		X	X	<input checked="" type="checkbox"/>
Pink salmon	August 27, 2015	X		X	<input checked="" type="checkbox"/>
Chum salmon	August 27, 2015	X		X	<input checked="" type="checkbox"/>
Dolly Varden	June 17, 2015			X	<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 supplemental information. This package was prepared by Melanie Kadake and Cathy Needham. For question or additional information contact Ms. Kadake at 907-285-3665 or mjkadake13@gmail.com or Ms. Needham at 907-723-4436 or cathy@kaienvironmental.com

Name of Observer (please print): Tony Sanderson
 Signature: *Tony Sanderson* Date: 1-25-16
 Agency: Hydaburg Cooperative Agency
 Address: P.O. Box 349
Hydaburg, AK 99922

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 11/13
 Name of Area Biologist (please print): _____

Supplemental information for Main Stream of Soda Creek

Four baited minnow traps were soaked for 2 to 5 hours in Main Stream of Soda Creek on June 17th, 2015. Soda Creek Main Stream is listed in the Anadromous Waters Catalog (103-40-10130). This current nomination is to include the presence and rearing of Coho salmon, and the spawning and presence of adult chum and pink salmon. It is also noted that there are Dolly Varden present in this stream. An ADFG fish trapping permit datasheet is attached to this nomination packet for further details on fish trapping efforts. Adult foot counts were performed on August 27th, 2015 and adult chum, Coho, and pink salmon were present (see attached datasheet).

Stream mapping and survey data was collected by the Hydaburg Cooperative Association Stream Survey crew for Main Stream on June 17th, 2015. Data was taken on six 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:

	Reach 1	Reach 2	Reach 3
Average stream gradient	2.6	9.6	1.3
Average bankfull width	19.6	14.6	15.2
Average channel bed width	22.8	14.7	13.6
Average incision depth	0.85	0.86	0.6
Bank composition	Organic	Mixed	Mixed
Dominant substrate	N/A	Very Coarse Gravel	Small Cobble
Sub-dominant substrate	N/A	Small Cobble	Bedrock
Large wood count	8	14	44
Key wood count	1	9	23
Macro-pool count	4	5	9

	Reach 4	Reach 5	Reach 6
Average stream gradient	0.85	0.43	1.3
Average bankfull width	16.5	16	12.4
Average channel bed width	13.3	16.1	13.9
Average incision depth	0.55	N/A	0.62
Bank composition	Mixed	Organic	Organic
Dominant substrate	Small Boulder	N/A	Small Cobble
Sub-dominant substrate	Large Cobble	N/A	Very Coarse Gravel
Large wood count	15	0	0
Key wood count	9	1	0
Macro-pool count	0	0	2

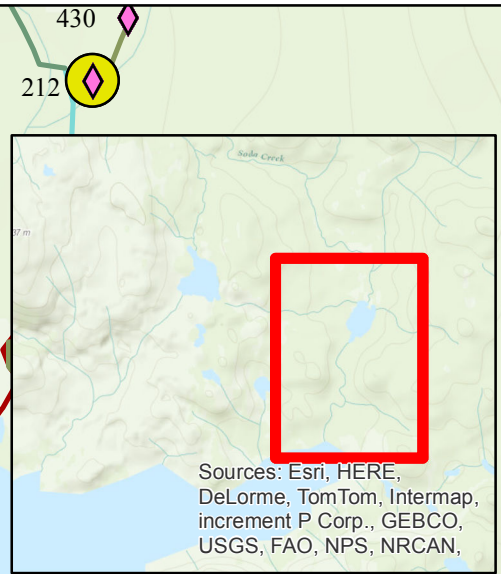
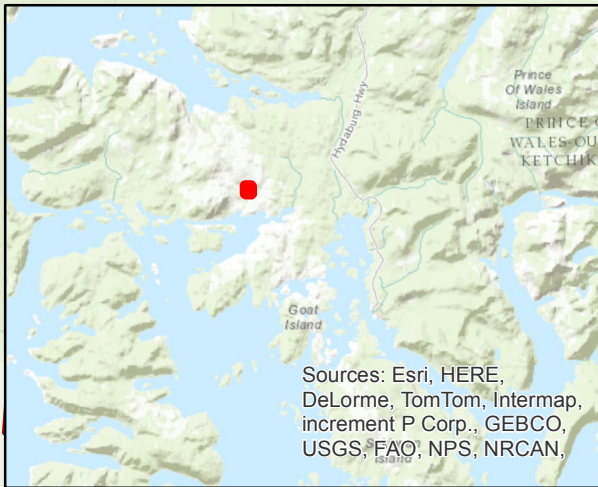
Reach 1 was classified ESL (Large Estuarine Channel), Reaches 2-4 were classified as LCM (Medium Low Gradient Contained Channel), Reach 5 & 6 were classified as PAM (Moderate Width Placid Flow Channel), There was no classified fish barrier, Hydaburg Cooperative

Association's Crew stopped at Soda Lake. The following picture shows the lake documented at the end of Reach 6.







Photo 1. Soda Lake at the end of Reach 6 on Main Stream of Soda Creek.












Soda Creek Main stream

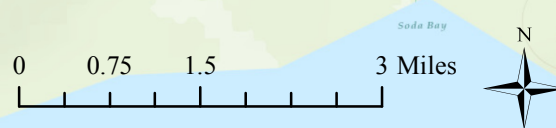
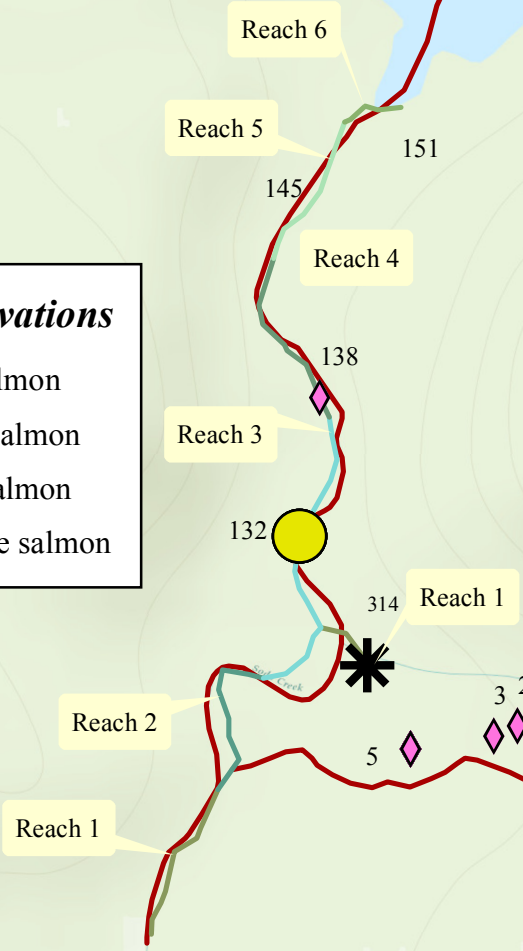


Adult observations

-  Pink salmon
-  Chum salmon
-  Coho salmon
-  Sockeye salmon

Key to Symbols

-  No fish collected
-  Sculpin
-  Dolly Varden
-  Rainbow / Steelhead
-  Cutthroat trout
-  Coho salmon
-  Anadromous waters catalog
-  Previously mapped streams
-  Newly mapped streams
-  Beaver dam
-  Waterfall



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

ADF&G permit no. SF2015-153**Summary report of fish collection activity.****The area biologist was contacted on: TIME/DATE: 10:01 am May 27th, 2015**

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
132	55.28601	-132.91708	WGS85	GPS	Soda Bay	6/17/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	54	
132	55.28601	-132.91708	WGS85	GPS	Soda Bay	6/17/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile		
132	55.28601	-132.91708	WGS85	GPS	Soda Bay	6/17/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	55	
132	55.28601	-132.91708	WGS85	GPS	Soda Bay	6/17/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	53	
132	55.28601	-132.91708	WGS85	GPS	Soda Bay	6/17/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	36	
138	55.28783	-132.91660	WGS85	GPS	Soda Bay	6/17/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	118	
138	55.28783	-132.91660	WGS85	GPS	Soda Bay	6/17/2015	Tony Sanderson	Minnow Trap	threespine stickleback	juvenile	50	
145	55.29005	-132.91738	WGS85	GPS	Soda Bay	6/17/2015	Tony Sanderson	Minnow Trap	threespine stickleback	juvenile	60	
151	55.29162	-132.91466	WGS85	GPS	Soda Bay	6/17/2015	Tony Sanderson	Minnow Trap	threespine stickleback	juvenile	32	
151	55.29162	-132.91466	WGS85	GPS	Soda Bay	6/17/2015	Tony Sanderson	Minnow Trap	threespine stickleback	juvenile	37	
151	55.29162	-132.91466	WGS85	GPS	Soda Bay	6/17/2015	Tony Sanderson	Minnow Trap	threespine stickleback	juvenile	32	
151	55.29162	-132.91466	WGS85	GPS	Soda Bay	6/17/2015	Tony Sanderson	Minnow Trap	threespine stickleback	juvenile	51	
151	55.29162	-132.91466	WGS85	GPS	Soda Bay	6/17/2015	Tony Sanderson	Minnow Trap	threespine stickleback	juvenile	37	
151	55.29162	-132.91466	WGS85	GPS	Soda Bay	6/17/2015	Tony Sanderson	Minnow Trap	threespine stickleback	juvenile	41	

Adult Fish Count Data

Watershed	Stream/Tributary	Reach	Date	Suvey end		Species	.ive/Carcas	Amount	Observer	Wind	Weather	Water	Visibility
				GPS point	Index area								
Soda Bay	Main Stream		8/27/2015	540	Intertidal	Pink Salmon	Live	450	Tony S	SE	overcast	brown	fair
Soda Bay	Main Stream		8/27/2015	540	Intertidal	Other	Live	12	Tony S	SE	overcast	brown	fair
Soda Bay	Main Stream		8/27/2015	540	Intertidal	Coho Salmon	Live	5	Tony S	SE	overcast	brown	fair
Soda Bay	Main Stream		8/27/2015	540	In Stream	Pink Salmon	Live	2422	Tony S	SE	overcast	brown	fair
Soda Bay	Main Stream		8/27/2015	540	In Stream	Pink Salmon	Carcass	4	Tony S	SE	overcast	brown	fair
Soda Bay	Main Stream		8/27/2015	540	In Stream	Chum Salmon	Live	188	Tony S	SE	overcast	brown	fair
Soda Bay	Main Stream		8/27/2015	540	In Stream	Chum Salmon	Carcass	2	Tony S	SE	overcast	brown	fair
Soda Bay	Main Stream		8/27/2015	540	In Stream	Coho Salmon	Live	11	Tony S	SE	overcast	brown	fair
Soda Bay	Main Stream		8/27/2015	540	Riparian	Pink Salmon	Carcass	17	Tony S	SE	overcast	brown	fair
Soda Bay	Main Stream		8/27/2015	540	Riparian	Chum Salmon	Carcass	23	Tony S	SE	overcast	brown	fair