



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

Nomination Form
Anadromous Waters Catalog

Region Southeast USGS Quad(s) Craig C-2

AWC Number of Water Body 102-10-10100

Name of Water body Kendrick Bay Stream 5 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
Pink Salmon	August 27, 2015	X		X	<input checked="" type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>

IMPORTANT: Provide all supporting documentation that this water body is important for the spawning, rearing or migration of anadromous fish, including: number of fish and life stages observed; sampling methods, sampling duration and area sampled; copies of field notes; etc. Attach a copy of a map showing location of mouth and observed upper extent of each species, as well as other information such as: specific stream reaches observed as spawning or rearing habitat; locations, types, and heights of any barriers; etc.

Comments

See supplemental information provided.

This package was prepared by Cathy Needham. For questions or more information, contact Christine Woll at The Nature Conservancy at 907-586-8623 or cwill@tnc.org or Ms Needham at 907-723-4426 or cathy@kaienvironmental.com

Name of Observer (please print): Joshua Peele

Signature: *Joshua Peele* Date: 01/11/16

Agency: Organized Village of Kasaan

Address: P.O. Box 26 - KXA
Kasaan, AK 99950

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 Kendrick Bay Stream 5

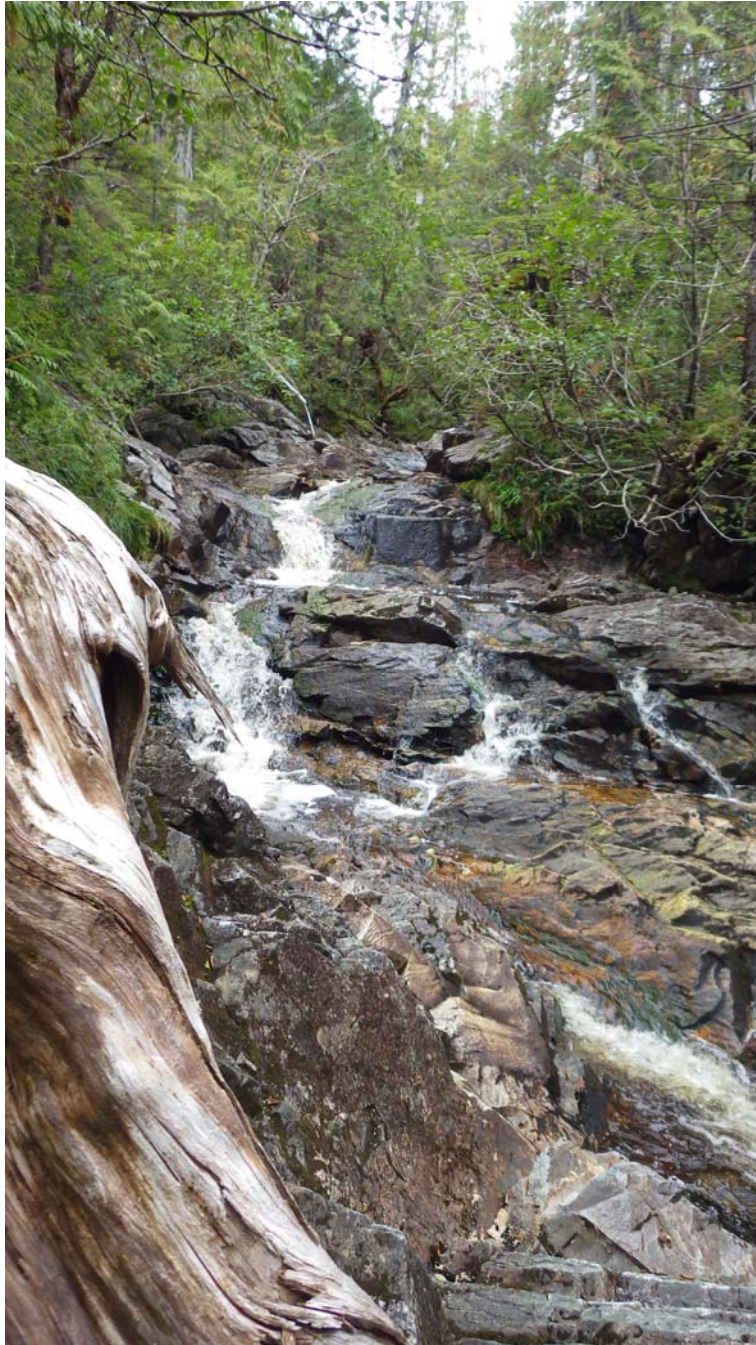
This current nomination is to provide additional background information for Kendrick Bay Stream 5. Kendrick Bay Stream 5 is currently listed in the Anadromous Waters Catalog (#102-10-10100) for the presence of pink salmon. The Organized Village of Kasaan Stream Survey crew performed adult foot counts on August 27, 2015 and documented 19 live adult pink salmon to GPS Point 538 (see attached map). On August 25, 2015, a baited minnow trap near salt water also yielded one cutthroat trout at GPS Point GPS Point 492(see attached map).

Stream reach data was collected for one reach (summarized in the following table; see figure for reach location):

Salt Chuck Creek Tributary 2	Reach 1
Average stream gradient	8.6%
Average bankfull width	3.48 m
Average channel bed width	4.6 m
Average incision depth	0.6 m
Bank composition	Bedrock
Dominant substrate	Bedrock
Sub-dominant substrate	Large Boulder; Large Cobble
Large wood count	18
Key wood count	2
Macro-pool count	10













Kendrick Bay Stream 5 was classified as MCS (Small Moderate Gradient Contained Channel). At GPS Point 541, there was a waterfall documented with a barrier height of 5 meters and 75% gradient. There were no fish observations beyond this point, and the barrier likely impedes fish migration and represents the upper extent of fish habitat. Above this point, there were two additional waterfalls (at GPS points 542 and 545). These waterfalls had barrier heights of 4.5 meters and 2.6 meters, with gradients of 75% and 50% respectively.

Photo 1. Waterfall documented on Kendrick Bay Stream 5, which likely impedes fish migration. The waterfall is located at GPS Point 541 (see corresponding figure).



Kendrick Bay Stream 5

Key to Symbols

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



0 0.05 0.1 0.2 Miles




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



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

Nomination Form
Anadromous Waters Catalog

Region Southeast USGS Quad(s) Craig C-2

AWC Number of Water Body 102-70-10410

Name of Water body Tolstoi Creek (Tributary 4) 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
Pink Salmon	September 23, 2015	X		X	<input checked="" type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>

IMPORTANT: Provide all supporting documentation that this water body is important for the spawning, rearing or migration of anadromous fish, including: number of fish and life stages observed; sampling methods, sampling duration and area sampled; copies of field notes; etc. Attach a copy of a map showing location of mouth and observed upper extent of each species, as well as other information such as: specific stream reaches observed as spawning or rearing habitat; locations, types, and heights of any barriers; etc.

Comments

See supplemental information provided.

This package was prepared by Cathy Needham. For questions or more information, contact Christine Woll at The Nature Conservancy at 907-586-8623 or cwill@tnc.org or Ms Needham at 907-723-4426 or cathy@kaienvironmental.com

Name of Observer (please print): Joshua Peele

Signature: *Joshua Peele* Date: 01/11/16

Agency: Organized Village of Kasaan

Address: P.O. Box 26 - KXA
Kasaan, AK 99950

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 Tolstoi Creek Tributary 4

This current nomination is to add the presence and spawning of pink salmon to Tributary 4 of Tolstoi Creek. Tolstoi Creek is currently in the Anadromous Waters Catalog (Anadromous Waters Catalog #102-70-10410), but Tributary 4 was not previously included. There were two reaches mapped by the Organized Village of Kasaan Stream Survey Crew on June 22, 2015. The crew performed adult foot counts on September 23, 2015 and counted 4 live pink salmon GPS points 553 and 554 (see attached map).

Stream reach data was collected for two reaches (summarized in the following table; see figure for reach location):

Tolstoi Creek Tributary 4	Reach 1	Reach 2
Average stream gradient	2.15%	1.7%
Average bankfull width	3.1 m	5.4 m
Average channel bed width	2.4 m	0.9 m
Average incision depth	0.45 m	0.45 m
Bank composition	Alluvium	Organic
Dominant substrate	Very Course Gravel	Organic
Sub-dominant substrate	Small Cobble; Course Gravel	Organic
Large wood count	12	48
Key wood count	8	26
Macro-pool count	8	45

Tolstoi Creek Tributary 4 Reach 1 was classified as MMS (Small Moderate Gradient Mixed Control Channel). There were debris jams and large wood accumulations throughout the reach, but no potential fish barriers documented.













Tolstoi Creek Tributary 4 Reach 2 was classified as FPS (Narrow Low Gradient Flood Plain Channel). There was a beaver dam documented at GPS Point 250, with a barrier height of 3 meters and a gradient of 90%. There were no fish documented beyond this barrier, and it is likely the upper extent of fish habitat. Also in Tributary 4 Reach 2 were a series of beaver dams at GPS locations 253, 254 and 255 (see attached map). While gradient wasn't measured at these locations, barrier heights were 0.6 meters, 0.8 meters and 1.0 meters respectively. Numerous debris jams and large wood accumulations were also present throughout the reach.

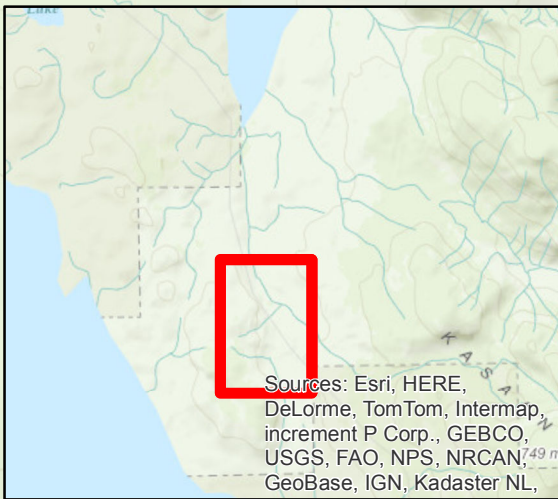
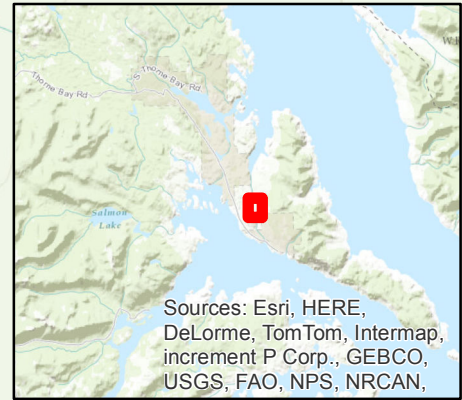
Photo 1. Photo of beaver dam documented on Tolstoi Creek Tributary 4 which represents a barrier to fish passage. The beaver dam is located at GPS Point 250 (see corresponding figure).



Tolstoi Tributary 4

Key to Symbols

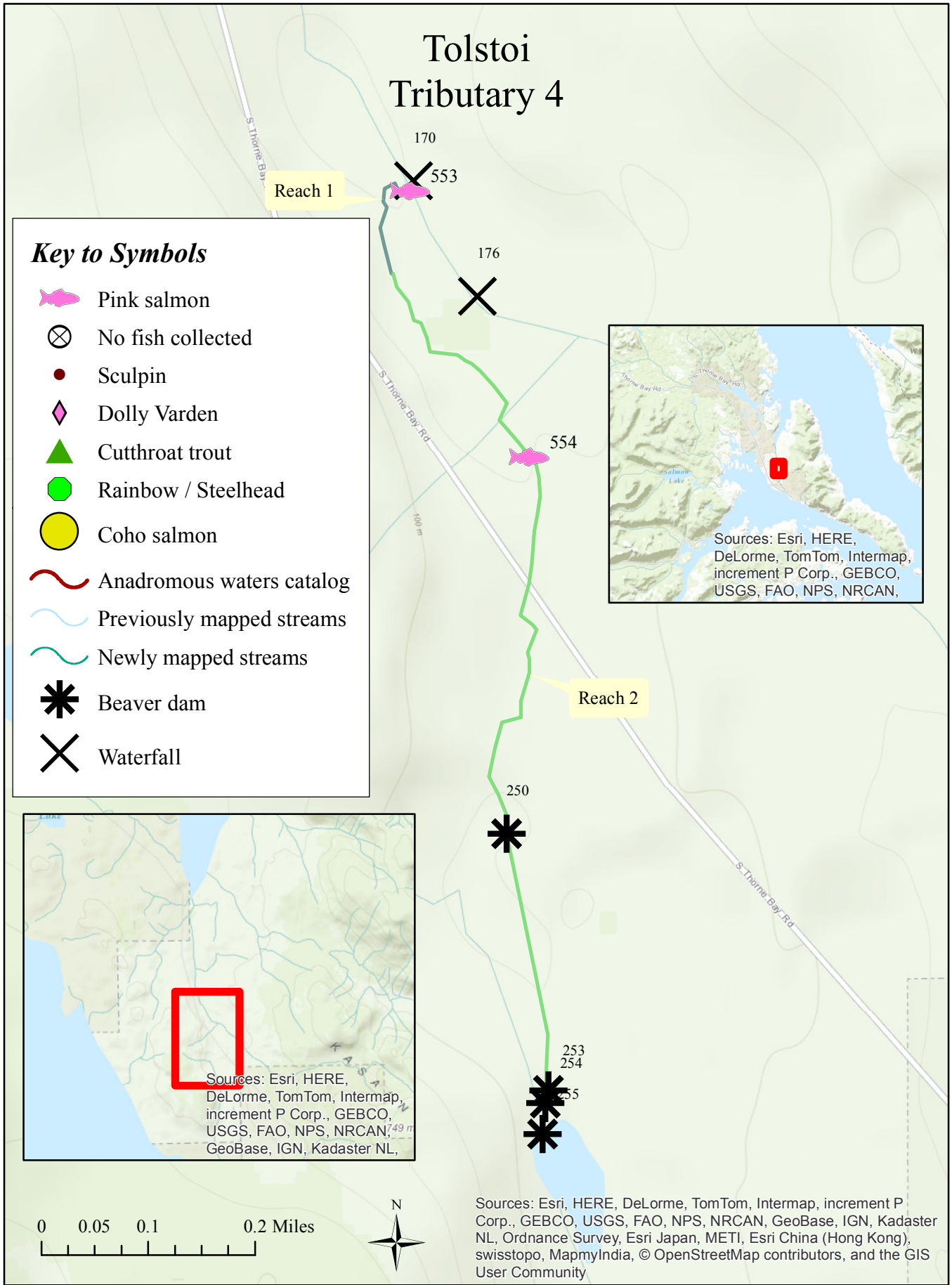
-  Pink salmon
-  No fish collected
-  Sculpin
-  Dolly Varden
-  Cutthroat trout
-  Rainbow / Steelhead
-  Coho salmon
-  Anadromous waters catalog
-  Previously mapped streams
-  Newly mapped streams
-  Beaver dam
-  Waterfall



0 0.05 0.1 0.2 Miles



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





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

Nomination Form
Anadromous Waters Catalog

Region Southeast USGS Quad(s) Craig C-2

AWC Number of Water Body 102-70-10410

Name of Water body Tolstoi Creek (Tributary 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
Pink Salmon	September 23, 2015	X		X	<input checked="" type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>

IMPORTANT: Provide all supporting documentation that this water body is important for the spawning, rearing or migration of anadromous fish, including: number of fish and life stages observed; sampling methods, sampling duration and area sampled; copies of field notes; etc. Attach a copy of a map showing location or 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 provided.
This package was prepared by Cathy Needham. For questions or more information, contact Christine Woll at The Nature Conservancy at 907-586-8623 or cwill@tnc.org or Ms Needham at 907-723-4426 or cathy@kaienvironmental.com

Name of Observer (please print): Joshua Peele
Signature: *Joshua Peele*
Agency: Organized Village of Kasaan
Address: P.O. Box 26 - KXA
Kasaan, AK 99950

Date: 01/11/16

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 Tolstoi Creek Tributary 3

This current nomination is to add the presence and spawning of pink salmon to Tributary 3 of Tolstoi Creek. Tolstoi Creek is currently in the Anadromous Waters Catalog (Anadromous Waters Catalog #102-70-10410), but Tributary 3 was not previously included. There were two reaches mapped by the Organized Village of Kasaan Stream Survey Crew on June 15 and June 25, 2015. A baited minnow trap was set on June 24, 2015 at GPS point 257 (see attached map), and only one cutthroat trout (65 mm) was captured. The crew performed adult foot counts on September 23, 2015 and counted 5 live pink salmon and 6 pink salmon carcasses between GPS points 552 and 555 (see attached map).

Stream reach data was collected for two reaches (summarized in the following table; see figure for reach location):

Tolstoi Creek Tributary 3	Reach 1	Reach 2
Average stream gradient	19.88%	5.23%
Average bankfull width	6 m	5.3 m
Average channel bed width	6.6 m	3.7 m
Average incision depth	1 m	0.4 m
Bank composition	Bedrock	Alluvium
Dominant substrate	Bedrock	Medium Gravel
Sub-dominant substrate	Very Course Gravel; Small Cobble	Course Gravel; Very Course Gravel
Large wood count	6	12
Key wood count	1	4
Macro-pool count	2	12

Tolstoi Creek Tributary 3 Reach 1 was classified as HCL (High Gradient Low Incision Channel). There were three waterfalls documented, two which were back to back at GPS point 143 and one at GPS point 145. The first waterfall was 0.55 meters high with 40% gradient and the second was 1 meter high and 90% gradient. There were adult pink salmon documented beyond these two waterfalls. The third waterfall (GPS point 145) was 0.8 meters high with a 70% gradient, and there were adult pink salmon beyond this point as well. Photo 1 depicts the second waterfall at GPS Point 143.













Tolstoi Creek Tributary 3 Reach 2 was classified as MMS (Small Moderate Gradient Mixed Control Channel). There were no fish documented in Reach 2, the reach starts at GPS Point 259 which is at a road. In the reach there were two waterfalls and a section of subsurface flow documented. The waterfalls were located at GPS Points 261 and 265, and the subsurface flow was located in between the two waterfalls at GPS 264. The end of Reach 1 is likely the upper extent of fish habitat for Tributary 3.

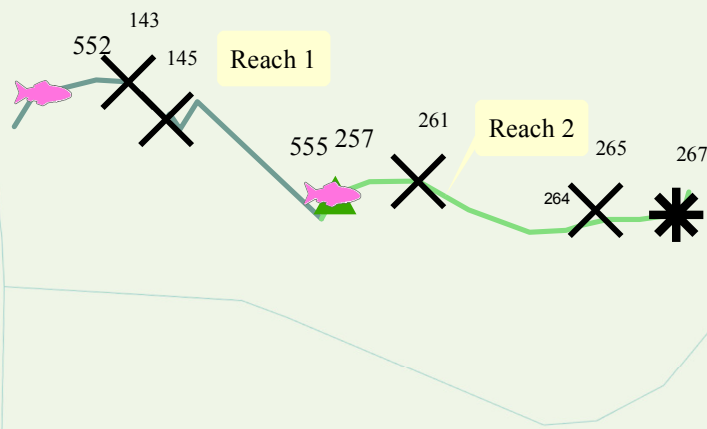
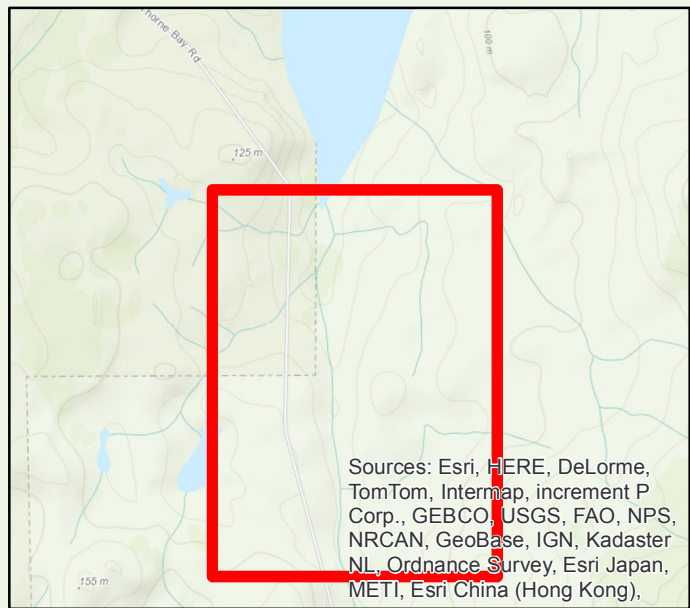
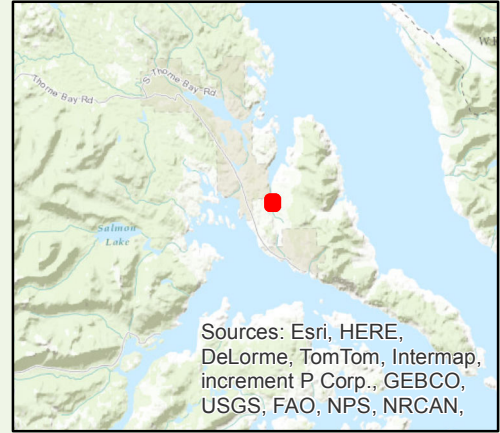
Photo 1. Example of a small waterfall on Tolstoi Creek Tributary 3 in Reach 1, at GPS Point 143 (see corresponding figure).



Tolstoi Tributary 3

Key to Symbols

-  Pink salmon
-  No fish collected
-  Sculpin
-  Dolly Varden
-  Cutthroat trout
-  Rainbow / Steelhead
-  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



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

Nomination Form
Anadromous Waters Catalog

Region Southeast USGS Quad(s) Craig C-2

AWC Number of Water Body 102-70-10410

Name of Water body Tolstoi Creek (Tributary 2) USGS Name Local Name

Addition Deletion Correction Backup Information

For Office Use

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

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Pink Salmon	September 23, 2015	X		X	<input checked="" type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>

IMPORTANT: Provide all supporting documentation that this water body is important for the spawning, rearing or migration of anadromous fish, including: number of fish and life stages observed; sampling methods, sampling duration and area sampled; copies of field notes; etc. Attach a copy of a map showing location of mouth and observed upper extent of each species, as well as other information such as: specific stream reaches observed as spawning or rearing habitat; locations, types, and heights of any barriers; etc.

Comments

See supplemental information provided with packet, for more information on two tributaries on Tolstoi Creek.
This package was prepared by Cathy Needham. For questions or more information, contact Christine Woll at The Nature Conservancy at 907-586-8623 or cwooll@tnc.org or Ms Needham at 907-723-4426 or cathy@kaienvironmental.com

Name of Observer (please print): Joshua Peele

Signature: *Joshua Peele* Date: 01/11/16

Agency: Organized Village of Kasaan

Address: P.O. Box 26 - KXA
Kasaan, AK 99950

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 Tolstoi Creek Tributary 2

This current nomination is to add the presence and spawning of pink salmon to Tributary 2 of Tolstoi Creek (Anadromous Waters Catalog #102-70-10410). The attached figure shows Tributary 1 and Tributary 2 of Tolstoi Creek, and some observations are also offered for Tributary 1.

Tolstoi Creek Tributary 2

Tolstoi Creek Tributary 2 is currently listed in the Anadromous Waters Catalog for the presence of Coho salmon. On September 23, 2015, the Organized Village of Kasaan Stream Survey crew performed adult foot counts, and observed adult pink salmon in Tolstoi Creek Tributary 2. There were five live pink salmon and five pink salmon carcasses observed between GPS points 550 and 551 (see attached figure). Stream mapping and survey data was collected by Organized Village of Kasaan Stream Survey crew for Tolstoi Creek Tributary 2 on June 12, 2015. Data was collected on one reach (summarized in the following table; see figure for reach location):

Tolstoi Creek Tributary 2	Reach 1
Average stream gradient	1.70%
Average bankfull width	6.0 m
Average channel bed width	2.4 m
Average incision depth	0.4 m
Bank composition	Organic
Dominant substrate	Small Cobble
Sub-dominant substrate	Very Course Gravel; Large Cobble
Large wood count	14
Key wood count	5
Macro-pool count	21

Tolstoi Creek Tributary 2 Reach 1 was classified as FPS (Narrow Low Gradient Flood Plain Channel). There were two waterfalls documented. One waterfall was located at GPS point 111 with a barrier height of 0.25 meters and a gradient of 90 degrees (see attached figure). Adult pink salmon were observed above this point, therefore the barrier did not impede fish passage of adult salmon. The second waterfall is located at GPS point 114 with a barrier height of approximately 18 meters and a gradient of 90 degrees (see attached figure and Photo 1). Even though the crew did not map or fish trap beyond this point, it is unlikely fish would pass the barrier. Therefore the upper extent of Tributary 2 is likely at the end of Reach 1.

Tolstoi Creek Tributary 1

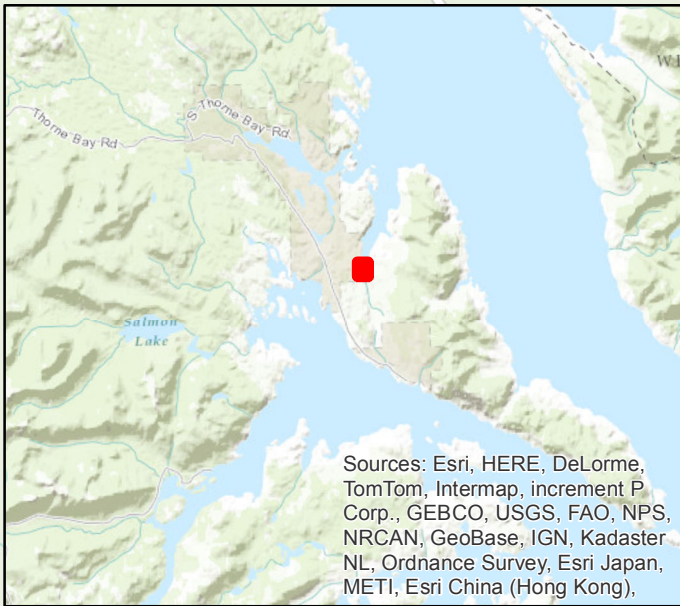
Additional stream survey and fish trapping data was also collected by the Organized Village of Kasaan Stream Survey crew on Tributary 1 of Tolstoi Creek. Tributary 1 is not currently listed in the Anadromous Waters Catalog. Two baited minnow traps were set on June 4, 2015, at GPS points 49 and 56 (see attached figure). The trap at GPS 49 yielded one juvenile Coho salmon

(55mm) and one juvenile rainbow trout (70mm). The trap at GPS 56 yielded one Dolly Varden (95mm). Tributary 1 is not being added at this time.

Photo 1. Photo of barrier falls on Tolstoi Creek Tributary 2 at GPS Point location 114 (see corresponding figure).



Tolstoi Tributary 1 + 2



Reach 1 49













Reach 2

56

Trib 1

Thorne Bay

Key to Symbols

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

Reach 1

550

114

551

111

Trib 2



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



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

Nomination Form
Anadromous Waters Catalog

Region Southeast USGS Quad(s) Craig C-2

AWC Number of Water Body 102-60-10950

Name of Water body Salt Chuck (Tributary 6) 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
Pink Salmon	September 30 ,2015	X		X	<input checked="" type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>

IMPORTANT: Provide all supporting documentation that this water body is important for the spawning, rearing or migration of anadromous fish, including: number of fish and life stages observed; sampling methods, sampling duration and area sampled; copies of field notes; etc. Attach a copy of a map showing location of mouth and observed upper extent of each species, as well as other information such as: specific stream reaches observed as spawning or rearing habitat; locations, types, and heights of any barriers; etc.

Comments

See supplemental information provided.

This package was prepared by Cathy Needham. For questions or more information, contact Christine Woll at The Nature Conservancy at 907-586-8623 or cwill@tnc.org or Ms Needham at 907-723-4426 or cathy@kaienvironmental.com

Name of Observer (please print): Joshua Peele

Signature: *Joshua Peele* Date: 6/11/16

Agency: Organized Village of Kasaan

Address: P.O. Box 26 - KXA
Kasaan, AK 99950

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 Salt Chuck Tributary 6

This current nomination is to add the presence and spawning of pink salmon to Tributary 6 of Salt Chuck. Salt Chuck is listed in the Anadromous Waters Catalog (#102-60-10950), but Tributary 6 was not previously included. The Organized Village of Kasaan Stream Survey Crew conducted adult foot counts and documented 6 live adult pink salmon and 4 pink salmon carcasses between GPS points 561 and 562 (see attached maps). Also in the vicinity, there were 8 live pink salmon and 4 pink salmon carcasses between GPS points 563 and 564 (see attached map).













Stream reach data was collected for one reach (summarized in the following table; see figure for reach location):

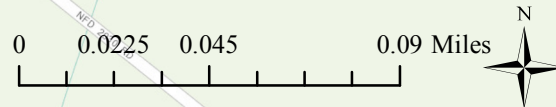
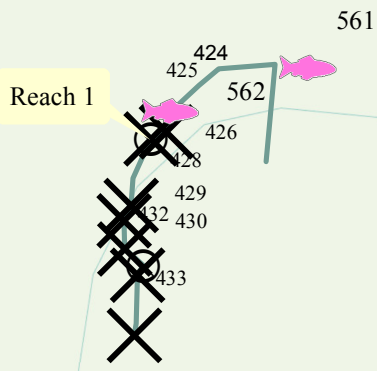
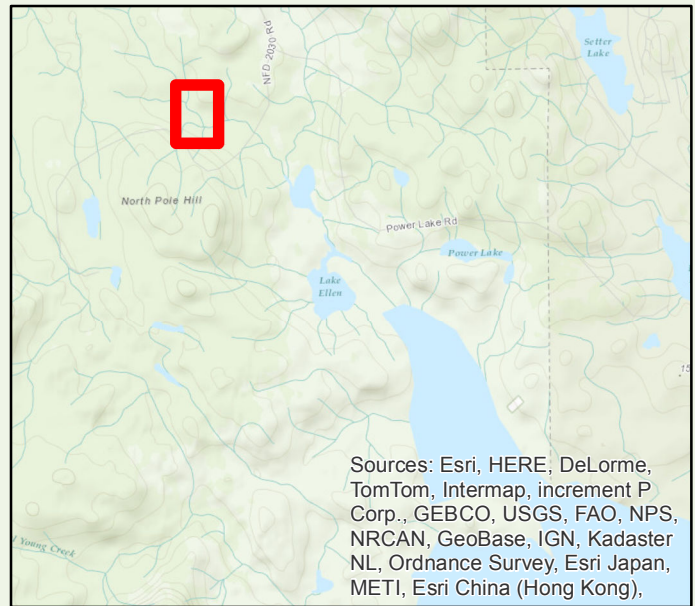
Salt Chuck Creek Tributary 2	Reach 1
Average stream gradient	15.05%
Average bankfull width	3.2 m
Average channel bed width	3.4 m
Average incision depth	0.4 m
Bank composition	Organic
Dominant substrate	Small Cobble
Sub-dominant substrate	Small Boulder; Large Cobble
Large wood count	26
Key wood count	4
Macro-pool count	10

Salt Chuck Tributary 6 Reach 1 was classified as HCL (High Gradient Low Incision Channel). There was a road crossing at GPS Point 424 which had a 36 inch corrugated metal pipe with an 8 inch perch height. Immediately upstream at GPS Point 425 there was a waterfall with a barrier height of 0.85 meters and gradient of 90%. There were 6 additional waterfalls documented up there rest of the creek with barrier heights between 0.2 meters and 15 meters, all with 90% gradients. The upper extent of fish habitat likely ends at the road crossing, as habitat is a series of step waterfalls after that.

Saltchuck Tributary 6

Key to Symbols

-  Pink salmon
-  No fish collected
-  Sculpin
-  Dolly Varden
-  Cutthroat trout
-  Rainbow / Steelhead
-  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



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

Nomination Form
Anadromous Waters Catalog

Region Southeast USGS Quad(s) Craig C-2

AWC Number of Water Body 102-60-10950-2006

Name of Water body Salt Chuck (Tributary 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
Pink Salmon	September 30 , 2015	X		X	<input checked="" type="checkbox"/>
Dolly Varden	June 9, 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 provided.

This package was prepared by Cathy Needham. For questions or more information, contact Christine Woll at The Nature Conservancy at 907-586-8623 or cwill@tnc.org or Ms Needham at 907-723-4426 or cathy@kaienvironmental.com

Name of Observer (please print): Joshua Peele

Signature: *Joshua Peele* Date: 6/11/16

Agency: Organized Village of Kasaan

Address: P.O. Box 26 - KXA
Kasaan, AK 99950

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 Salt Chuck Tributary 2

This current nomination is to add the presence and spawning of pink salmon to Tributary 2 of Salt Chuck. The presence of Dolly Varden was also noted. Salt Chuck is currently in the Anadromous Waters Catalog (#102-60-10950-2006), but Tributary 2 was not previously included. The Organized Village of Kasaan Stream Survey Crew set baited minnow traps on June 9, 2015. There were two Dolly Varden (70mm, 80mm) were caught in a trap located at GPS Point 89 (see attached map). The crew performed adult foot counts on September 30, 2015 and documented five live adult pink salmon and 5 adult pink salmon carcasses between GPS Points 559 and 560 (see attached map)













Stream reach data was collected for one reach (summarized in the following table; see figure for reach location):

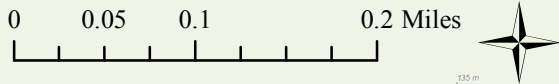
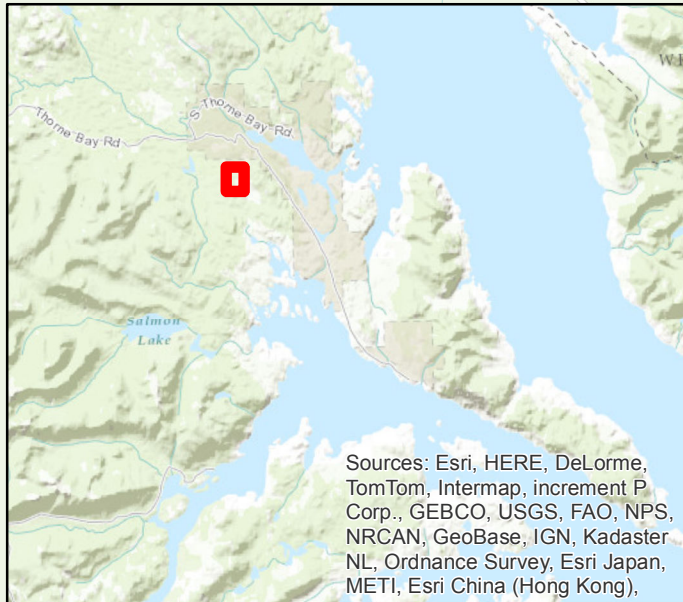
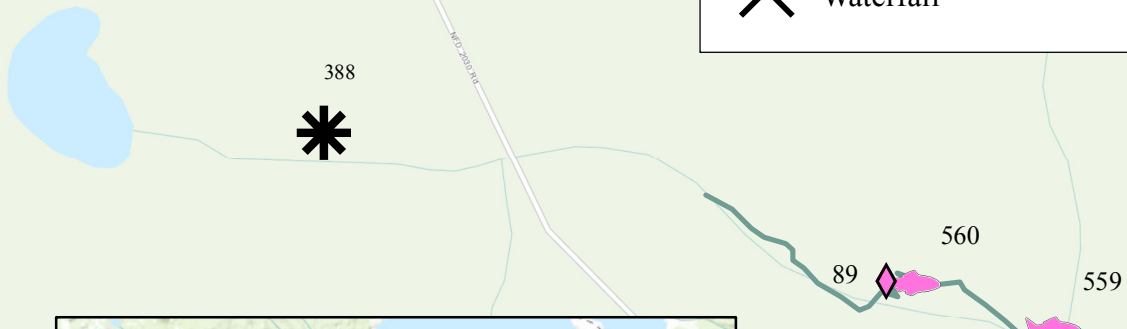
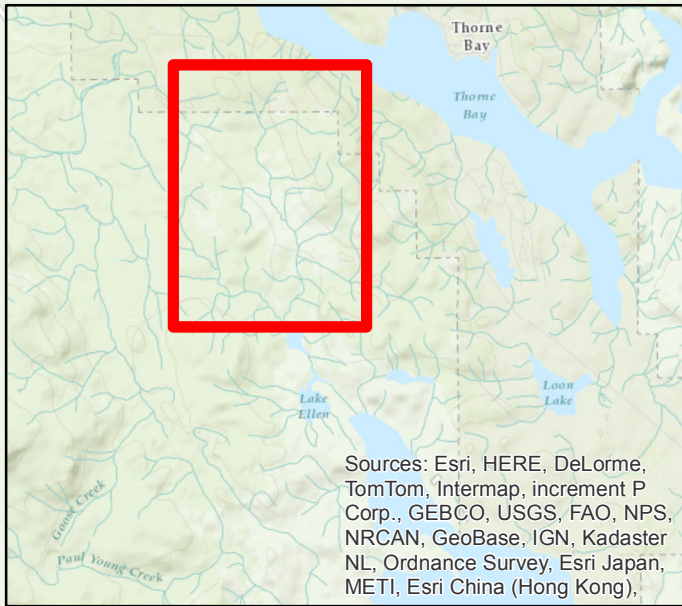
Salt Chuck Creek Tributary 2	Reach 1
Average stream gradient	1.7%
Average bankfull width	1.5 m
Average channel bed width	3.45 m
Average incision depth	0.25 m
Bank composition	Mixed
Dominant substrate	Large Cobble
Sub-dominant substrate	Very Course Gravel; Small Cobble
Large wood count	10
Key wood count	0
Macro-pool count	4

Salt Chuck Tributary 2 Reach 1 was classified as LCS (Small Low Gradient Contained Channel). There were several debris jams as barriers, but the upper extent of fish observed was at the road crossing located at GPS Point 354. The culvert was a 24 inch corrugated metal pipe with an 8 inch perch height on the outlet, which did not appear to be blocked. It is unknown if the culvert is a true barrier as fish habitat was present above the crossing even if fish were not observed.

Saltchuck Tributary 2

Key to Symbols

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



Esri, 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