



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

Nomination Form
Anadromous Waters Catalog

ALASKA DEPT. OF
FISH & GAME
NOV 19 2009

Region Interior USGS Quad(s) TAWANA D-1
 Anadromous Waters Catalog Number of Waterway 334-40-11000-2665
 Name of Waterway Little Salt Creek USGS Name Local Name
 Addition Deletion Correction Backup Information

For Office Use

Nomination #	<u>100380</u>		<u>7/14/10</u>
Revision Year:	<u>2011</u>		Date
Revision to:	Atlas _____ Catalog _____		<u>7/14/10</u>
	Both <u>X</u>		Date
Revision Code:	<u>A 1, B 16</u>		<u>30 Jun 10</u>
			Date
			<u>10/20/10</u>
			Date

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Chinook Salmon	8/21/2009		SS		<input checked="" type="checkbox"/>
<u>Extend</u>	<u>Stream of Chinook salmon rearing</u>				<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: Extend occurrence of juvenile Chinook rearing upstream to location shown on map & data sheet coordinates.
ALL chinook captured with minnow trap (all age-0 juveniles)
ALL sampling conducted in stream, above Yukon R. influence.
Fry rearing extends from tributary mouth upstream to uppermost capture site (map)
HABITAT extends beyond upstream sampling location.
IT IS recommended that CO be deleted from the catalog unless positively confirmed.
Point # 01-482 added catch data, do not remove

Name of Observer (please print): DAVID W. DAUM
 Signature: Date: 11/12/2009
 Agency: U.S. Fish & Wildlife Service
 Address: 101 12th Ave. Room 110
FAIRBANKS AK 99701

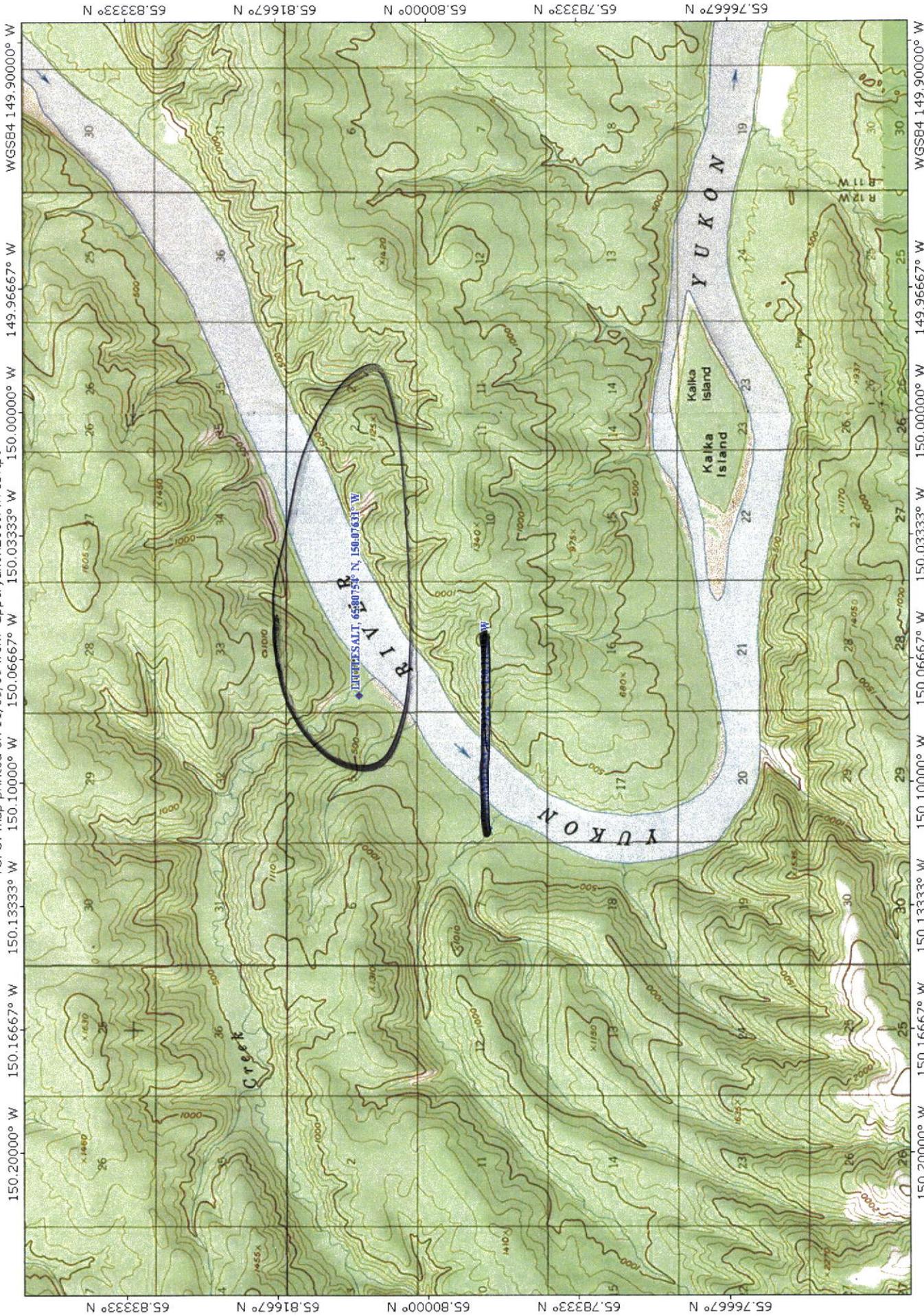
This certifies that in my best professional judgment and belief the above information is evidence that this waterbody should be included in or deleted from the Anadromous Waters Catalog.

Signature of Area Biologist: Date: 16 Nov 2009 Revision
 02/08

Chinook juvenile sampling - upper Yukon mainstem tributaries - 2009												
Stream		Sample site		coordinates from GPS in field		coordinates replotted from map		Sample date	Number Chinook sampled	Number of traps deployed	Sample time (h)	Length range of sample (mm)
	Site 1	Lat deg (N)	Long deg (W)	Lat deg (N)	Long deg (W)	Lat deg (N)	Long deg (W)					
Little Salt Creek		65.80754	-150.07631	Same	Same	Same	Same	8/21/2009	55	6	26.00	60 - 85
Other fish captured: slimy sculpin, juvenile longnose sucker, juvenile Arctic grayling												

TANANA D-1

TOPOI map printed on 11/09/09 from "upper yukon 2009AWCb.tpo"



65.83333° N 65.81667° N 65.80000° N 65.78333° N 65.76667° N

150.20000° W 150.16667° W 150.13333° W 150.10000° W 150.06667° W 150.03333° W 150.00000° W 149.96667° W 149.90000° W

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65.83333° N 65.81667° N 65.80000° N 65.78333° N 65.76667° N

TN 21W

Map created with TOPOI © 2002 National Geographic (www.nationalgeographic.com/topo)

Little Salt Creek



MOUTH



Site 1



State of Alaska
Department of Fish and Game
Sportfish Division

Nomination Form
Fish Distribution Database

RECEIVED
DEC 03 2004

Region Interior USGS Quad Tanana D-1 STATE OF ALASKA FISH & GAME

Fish Distribution Database Number of Waterway Yukon River 334-35-11000 -2665

Name of Waterway Little Salt Creek USGS Name Local Name

Addition Deletion Correction Backup Information

For Office Use AK665 2/24/05

Nomination # <u>04 473</u>	<u>[Signature]</u>	<u>2/24/05</u>
Revision Year: <u>2006</u>	Fisheries Scientist	Date
Revision to: Atlas <u> </u> Catalog <u> </u>	<u>[Signature]</u>	<u>12-02-04</u>
Both <u>Y</u>	FDD Project Biologist	Date
Revision Code: <u>A-2</u>	<u>[Signature]</u>	<u>4-29-05</u>
	Drafted	Date

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Coho	7/27/2004		5		<input checked="" type="checkbox"/>
Chinook	7/27/2004		17		<input checked="" type="checkbox"/>
Dolly Varden	7/27/2004			5	<input type="checkbox"/>
Longnose Sucker	7/27/2004			1	<input type="checkbox"/>
					<input type="checkbox"/>

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

Comments:
See attached: Site 4582. Sampling site 100 Ft from mouth of stream
Add new stream w/ KRCOR

Name of Observer (please print): Nancy Ihlenfeldt McNay
Signature: [Signature] Date: 10/19/04
Address: ADNR, OHMP, 1300 College Rd.
Fairbanks, AK 99701 459-7297 Dec 13

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 Fish Distribution Database.

Signature of Area Biologist: [Signature] John Burr Revision 04/03
Name of Area Biologist (please print): John Burr

Fish Inventory Form

Date: 7-26-04

Time (24 clock): 1120

Waterbody Name:

Little Salt R

Investigators:

3E CT NJT

GPS Latitude(decimal):

65° 48' 36" 65.806°

GPS Longitude(decimal):

150° 04' 33" 150.075°

Elevation(ft):

MAP number, location, description:

Tanana D-1

POINT NAME:

4582

Field Conditions/Water Quality

Air Temp: 21

Conductivity: 338

Water Color:

FLR

Water Temp: 8.6

Bankfull Width: 4

Water Stage:

2

pH: N/A

Total Riparian Width: 7

DO: 10.1

TDS: 21

Gear Type:

Minnow Trap

of traps=

3

BP Shocker

Voltage=

Frequency(Hz)=

Elijah Time(sec)=

Selne

Selne Lgth=

Pull Distance=

Other

Trap Details

TRAP start

Date: 7-26-04

TRAP end

Date: 7/27/04

Trap # 1

Time: 1120

Time: 1028

Hab. Type: Run

Trap # 2

Trap # 3

Dom. Substrate: 32

Hab. Type: Run

Hab. Type: Slow Pool

Photo # 1.51 LWD

Dom. Substrate: 32

Dom. Substrate: 10

Photo # 1.01 LWD

Photo # 3' LWD

Aquatic Habitat Type (Pool, Run, Riffle)

Substrate (Bedrock, Boulder, Cobble, Gravel, Sand, Silt/Clay, Organic)

Comments:

Little Salt - no landing sites except @ mouth
 waded with 10-15'

Bankfull + Riparian are streamwide est. based on overnight
 stream nearly incised

Beaver dams blocking stream < 1 mile from mouth - 2 large dams noted
 Piles 47-48

Fish sighted - w/f

Silt @ mouth - trap sites from the Yukon River
 LWD loaded

Consideration of removal of coho salmon AWC documentation in Yukon River systems.

Issue – Based on an extensive sampling effort trapping juvenile fishes downstream from the Canadian border, Dave Daum (USF&WS) has submitted several nomination forms to delete coho salmon rearing, spawning, or presence from a number of AWC listed water bodies. The water bodies listed below are being considered for revision. Existing AWC coho salmon life stage documentation and lower pt fish species/life stage info (in parenthesis) is included.

334-45-11000-2325 (Kandik River (Charley Creek)) – coho salmon present (CHp,COp,Ksr)

334-45-11000-2325-3013 – coho salmon rearing (COr,Kr)

334-45-11000-2325-3017 – coho salmon rearing (COr,Kr)

334-45-11000-2325-3021 – coho salmon rearing (COr,Kr)

334-45-11000-2325-3021-4006 – coho salmon rearing (COr,Kr)

334-45-11000-2501 (Tatonduk River) – coho salmon present/spawning (CHp,COp,Ks)

334-40-11000-2661 – coho salmon rearing (COr,Kr)

334-40-11000-2665 – coho salmon rearing (COr,Kr)

334-40-11000-2681 – (Big Salt River) coho salmon rearing/present (CHs,COp,Kr)

(J. Johnson) AWC documentation for Kandik River (334-45-11000-2325) & tribs or 334-45-11000-2501 (Tatonduk River) to add coho salmon does not exist (no nom), 334-40-11000-2661 - added with Chinook & coho salmon rearing, nom # 04-479 (OHMP), 334-40-11000-2665 - added with Chinook & coho salmon rearing nom# 04-473, 334-40-11000-2681 – (Big Salt River) added with coho salmon, nom # 04-482 (AFFI).

Following are excerpts from emails or phone conversations -

(Dave Daum) I would delete these records unless there is definitive proof that these juvenile fish are actually coho. I have done genetics on over 800 age-0 juveniles in this part of the Yukon and they are all Chinook so far. As I have been saying for years now, the NOAA, Morrow, etc. keys for juvenile salmon identification can be very misleading for upper Yukon River Chinook salmon. I have caught fish with sickle-shaped anal fins, white leading edges, orange hue, parr marks narrow relative to space, etc. and so far they have been all genetically identified as Chinook. I had fish removed out of the UAF museum collection that were misidentified by ADF&G personnel as coho in the 1970's in the upper Yukon area (I sent to Ray Baxter, and he confirmed through meristics as Chinook). USFWS conducted a contaminants study in the Innoko River in the 1990's and misidentified numerous coho and Chinook salmon fry using these keys. Our genetics lab since those days screens ALL salmon fry for species before doing analysis. They do this because mis-identification of juvenile salmonids has been a common occurrence,

Consideration of removal of coho salmon AWC documentation in Yukon River systems.

especially in some areas of the Yukon River. We have recently done some work on the Tanana River and did pyloric caeca counts to confirm speciation in age-0 juvenile Chinook and coho. I sampled Minook Creek (directly across from Squaw Creek) on Aug 29, 2006. I captured 104 juvenile salmonids, they ranged from 65 - 95 mm, and all were genetically screened as Chinook salmon.

(Bonnie Borba) Only kings and chum salmon noted in the Charley Creek in the aerial survey database, local report of coho salmon in the Black River as well as in the local subsistence fisheries.

(Roger Dunbar) Reports capture of coho salmon @ Eagle sonar site, but very few

(Pat Milligan- DFO) Documentation of coho salmon in the Porcupine River (Canadian side) and rearing coho salmon in Fishing Branch River (trib of Porcupine R.). The coho run within the Porcupine River drainage appears to be much stronger than the one to the upper Yukon. Coho are often caught in the aboriginal fishery located on the main stem Porcupine River near Old Crow late in the season by individuals fishing under the ice.

(Joe Buckwalter) I haven't had genetic tests run on any voucher specimens, but I routinely use meristic counts (esp. pyloric caeca and branchiostegals) to confirm difficult ID on difficult specimens. White leading edge of anal fin means nothing—however, a white leading edge *followed by a black stripe/zone*, when present, seems to be a very good indicator for coho (although the black can fade on larger specimens). However, so far I'm not convinced there is sufficient evidence to retract any coho listings, at least not for Squaw Creek or Big Salt River (which I can vouch for).

(Robert Clark) The best way to confirm coho presence will be to confirm adults spawning in drainages, which I am relatively sure does occur in the upper Yukon, albeit infrequently. CF aerial surveys aren't late enough in the year to detect coho salmon adults. It's a shame, but deletion probably should (will) occur until we can confirm adults in these rivers, which will be infrequent based on my experience.

(James Durst) Attached is a spreadsheet summarizing field and laboratory examinations of juvenile salmon in the Tanana River basin near Big Delta. In this reach, live juvenile coho salmon and Chinook salmon can be tricky to tell apart in the hand if using parr marks, dorsal fin shading, or anal fin shading or shape. The definitive external characteristic turned out to be adipose fin pigmentation.

(Robert Karlen) Reports he has no reason to doubt the validity of the fish species identifications, does not recall any difficulty or issues w/identification. Streams added were 334-40-11000-2661 - added with Chinook & coho salmon rearing, nom # 04-479
334-40-11000-2665 - added with Chinook & coho salmon rearing nom# 04-473,
(OHMP)

Consideration of removal of coho salmon AWC documentation in Yukon River systems.

Streams under consideration for revision w/SF AB & CF/AB

334-45-11000-2325 - John Burr, John Linderman
334-45-11000-2325-3013 - John Burr, John Linderman
334-45-11000-2325-3017 - John Burr, John Linderman
334-45-11000-2325-3021 - John Burr, John Linderman
334-45-11000-2325-3021-4006 - John Burr, John Linderman
334-45-11000-2501 - John Burr, John Linderman
334-40-11000-2661 – John Burr, John Linderman
334-40-11000-2665 – John Burr, John Linderman
334-40-11000-2681- John Burr, John Linderman

334-45-11000-2325 – Kandik River is documented in AWC w/Chinook salmon rearing to the US-Canada border and coho salmon present to the mouth of 334-45-11000-2325-3021, revision would not affect the extent of AWC documentation in the Kandik River, only result would be deletion of single species (coho salmon). Since no documentation can be located to substantiate coho salmon observations, recommend deleting coho salmon present from stream.

334-45-11000-2325-3013 – Delete coho salmon rearing due to lack of substantiating occurrence observations.

334-45-11000-2325-3017 - Delete coho salmon rearing due to lack of substantiating occurrence observations.

334-45-11000-2325-3021 – Delete coho salmon rearing due to lack of substantiating occurrence observations.

334-45-11000-2325-3021-4006 - Delete coho salmon rearing due to lack of substantiating occurrence observations.

334-45-11000-2501 – Delete coho salmon present & spawning due to lack of substantiating occurrence observations.

334-40-11000-2661 – Observers are confident in their identification of juvenile coho salmon, do not delete coho salmon rearing.

334-40-11000-2665 – Observers are confident in their identification of juvenile coho salmon, do not delete coho salmon rearing.

334-40-11000-2681- Observers are confident in their identification of juvenile coho salmon, do not delete coho salmon rearing or present.

KR

Estimated
339-40 = 1000-
2665 at
Chinook salmon
Rising

CO_rK_r

CO_rK_r