



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

Nomination Form  
Anadromous Waters Catalog

Region: Southcentral USGS Quad(s): Talkeetna Mountains D-4

AWC Number of Water Body: 247-41-10200-XXXX 2713

Name of Water body: Tsusena Creek  USGS Name  Local Name

Addition  Deletion  Correction  Backup Information

For Office Use

Nomination #	<u>14-692</u>	<u>James J. Hasbrouck</u>	<u>10/3/2014</u>
		Fisheries Scientist	Date
Revision Year:	<u>2015</u>	<u>Whitney A</u>	<u>10/3/14</u>
		Habitat Operations Manager	Date
Revision to:	Atlas <input type="checkbox"/> Catalog <input type="checkbox"/>	<u>G/P</u>	<u>9/10/14</u>
	Both <input checked="" type="checkbox"/>	AWC Project Biologist	Date
Revision Code:	<u>A-2</u>	<u>TA</u>	<u>10/15/14</u>
		GIS Analyst	Date

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Chinook Salmon	7/19/2013-9/16/2013			Y	<input checked="" type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>

Add new stream w/ Chinook Salmon present

**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** A total of 9 Chinook salmon were observed in Tsusena Creek. The nearest AWC nomination is the Susitna River. During AEA's sampling efforts, adult Chinook salmon were observed on 8/1/2013 (1), 8/8/3013 (4), 8/9/3013 (1), and 8/15/3013 (2) using various methods including aerial spawning surveys, radio telemetry surveys, and snorkeling. One additional Chinook salmon was observed between 7/19/2013 and 9/16/2013 as a part of the radio telemetry surveys. For additional information, see attached tables, map, and GIS shapefiles.

Name of Observer (please print): Nathan Anderson

Signature: [Signature] Date: 9/15/2014

Agency: Alaska Energy Authority

Address: 813 West Northern Lights Blvd.  
Anchorage, AK, 99503

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: Rebecca S. Tvey Date: 9/10/14 Revision 11/13

Name of Area Biologist (please print): Victoria



**State of Alaska  
Department of Fish and Game  
Sportfish Division**

**Nomination Form  
Anadromous Waters Catalog**

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

**For Office Use**

Nomination # <input type="text" value="14-692"/>	<input type="text"/>	<input type="text"/>
Revision Year: <input type="text"/>	Fisheries Scientist	Date <input type="text"/>
Revision to: Atlas <input type="text"/>	Habitat Operations Manager	Date <input type="text"/>
Both <input type="text"/>	AWC Project Biologist	Date <input type="text"/>
Revision Code: <input type="text"/>	Cartographer	Date <input type="text"/>

**OBSERVATION INFORMATION**

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
chinook salmon	07/19/2013			✓	✓
chinook salmon	09/16/2013			✓	✓

**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:**  
 A total of 9 Chinook salmon were observed in Tsusena Creek. The nearest AWC nomination is the Susitna River. During AEA's sampling efforts, adult Chinook salmon were observed on 8/1/2013 (1), 8/8/2013 (4), 8/9/2013 (1), and 8/15/2013 (2) using various methods including aerial spawning surveys, radio telemetry surveys, and snorkeling. One additional Chinook salmon was observed between 7/19/2013 and 9/16/2013 as a part of the radio telemetry surveys. For additional information, see attached tables, map, and GIS shapefiles.  
 Coordinates (Lat,Long): Upper(62.84435,-148.553631) Lower(62.822153,-148.612465)

Name of Observer (please print):   
 Signature:  Date:   
 Agency:   
 Address:

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

Signature of Area Biologist:  Date:  Revision 02/08  
 Name of Area Biologist (please print):

**Table 1-1. (AWC Number 247-41-10200-XXXX) 2013 Aerial Surveys of Adults**

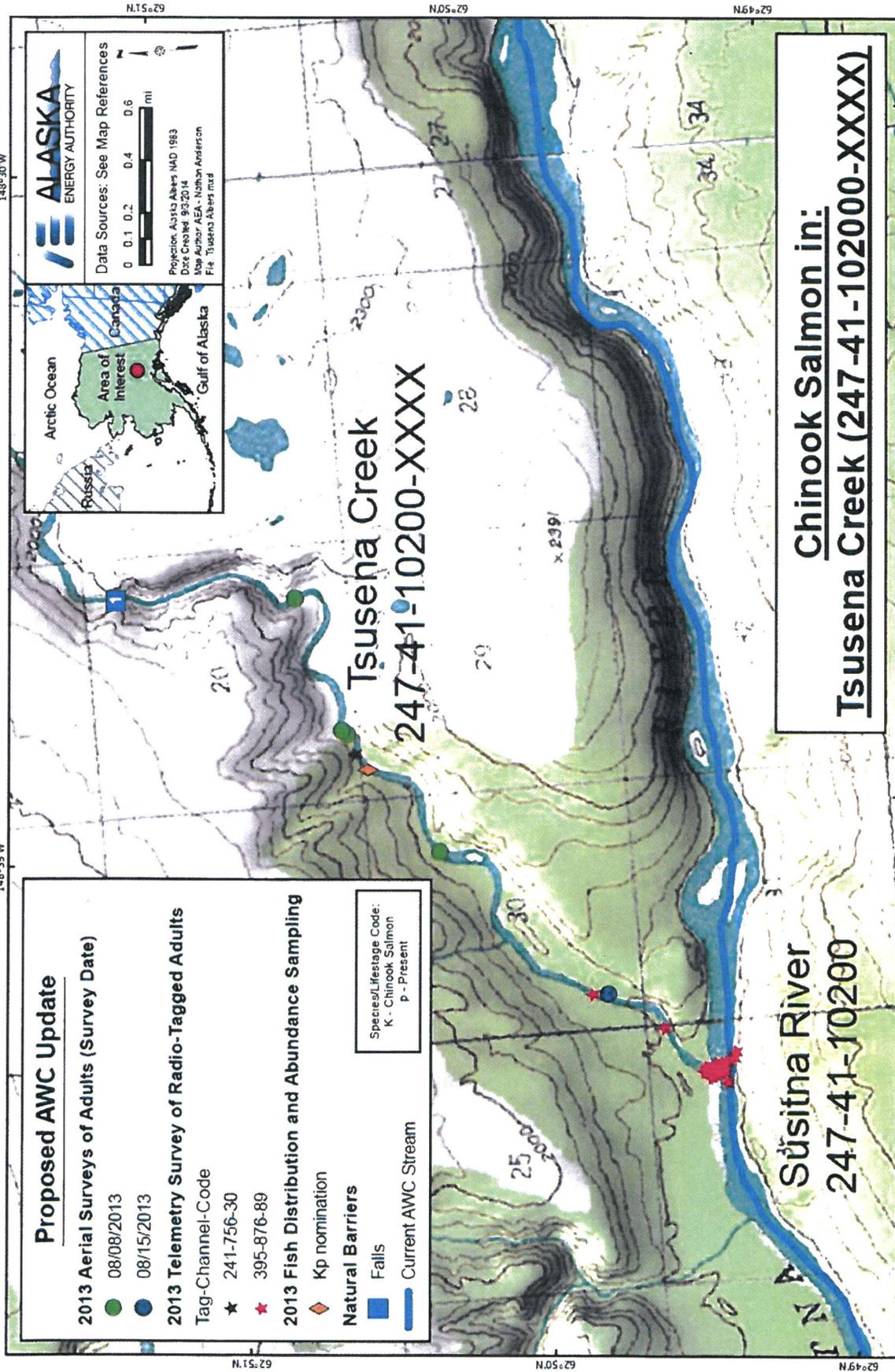
Event ID	Survey Date	Species	Fish Count	Latitude	Longitude
FDAML4_130815135117	8/15/2013	Chinook salmon	2	62.82891	-148.604389
FDAML4_130808160336	8/8/2013	Chinook salmon	1	62.837526	-148.58563
FDAML4_130808160336	8/8/2013	Chinook salmon	1	62.842108	-148.570513
FDAML4_130808160336	8/8/2013	Chinook salmon	1	62.842376	-148.569999
FDAML4_130808160336	8/8/2013	Chinook salmon	1	62.84435	-148.553631

**Table 1-2. (AWC Number 247-41-10200-XXXX) 2013 Telemetry Survey of Radio-Tagged**

Survey Date	Species	Tag	Label	Latitude	Longitude
8/26/2013	Chinook salmon	395	876-89	62.822153	-148.612465
8/6/2013	Chinook salmon	395	876-89	62.822275	-148.613177
8/13/2013	Chinook salmon	395	876-89	62.822627	-148.613542
7/28/2013	Chinook salmon	395	876-89	62.822757	-148.616152
7/29/2013	Chinook salmon	395	876-89	62.822817	-148.614917
7/30/2013	Chinook salmon	395	876-89	62.82292	-148.613698
7/27/2013	Chinook salmon	395	876-89	62.822985	-148.613947
7/19/2013	Chinook salmon	395	876-89	62.823197	-148.61448
7/26/2013	Chinook salmon	395	876-89	62.823255	-148.61357
8/19/2013	Chinook salmon	395	876-89	62.82327	-148.615047
7/22/2013	Chinook salmon	395	876-89	62.823447	-148.615162
8/2/2013	Chinook salmon	395	876-89	62.823602	-148.615403
7/31/2013	Chinook salmon	395	876-89	62.823623	-148.614285
7/25/2013	Chinook salmon	395	876-89	62.823627	-148.614728
8/1/2013	Chinook salmon	395	876-89	62.823825	-148.61409
9/2/2013	Chinook salmon	395	876-89	62.823898	-148.614538
9/16/2013	Chinook salmon	395	876-89	62.824002	-148.614528
7/24/2013	Chinook salmon	395	876-89	62.82595	-148.608955
7/23/2013	Chinook salmon	395	876-89	62.829757	-148.604258
8/1/2013	Chinook salmon	241	756-30	62.841777	-148.573002

**Table 1-3. (AWC Number 247-41-10200-XXXX) 2013 Fish Distribution and Abundance Sampling**

Study Name	Survey Date	Species	Fish Lifesage	Observation Method	Fish Length Estimate	Fish Count	Downstream Latitude	Downstream Longitude	Upstream Latitude	Upstream Longitude
FDA, MR Tribs, Direct	8/9/2013	Chinook salmon	Adult	Snorkel	625	1	62.840386	-148.576057	62.841111	-148.575084



**Proposed AWC Update**

2013 Aerial Surveys of Adults (Survey Date)

- 08/08/2013
- 08/15/2013

2013 Telemetry Survey of Radio-Tagged Adults

- Tag-Channel-Code
- ★ 241-756-30
  - ★ 395-876-89

2013 Fish Distribution and Abundance Sampling

- ◆ Kp nomination

Natural Barriers

- Falls
- Current AWC Stream

Species/Lifestage Code:  
 K - Chinook Salmon  
 p - Present

**Süsitna River**  
 247-41-10200

**Tsusena Creek**  
 247-41-10200-XXXX

**Chinook Salmon in:**  
**Tsusena Creek (247-41-102000-XXXX)**

1. Barrier falls. Single falls 30 feet tall. Taken at high altitude right over falls to avoid raptor nest.



## Johnson, J D (DFG)

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**From:** Ivey, Samuel S (DFG)  
**Sent:** Wednesday, September 10, 2014 9:57 AM  
**To:** Johnson, J D (DFG)  
**Subject:** RE: Talkeetna Mts nom forms

All these noms look reasonable to me. He has Chinook presence nominated for Tsihi and Tsusena creeks, but not spawning even though the fish were observed at a time when they should have been spawning or were post spawners about to die. I would be OK adding spawning to these based on the dates observed unless the department requires actual observed spawning behavior or noted redds.

Thanks,

Sam

**From:** Johnson, J D (DFG)  
**Sent:** Monday, September 08, 2014 2:48 PM  
**To:** Ivey, Samuel S (DFG)  
**Subject:** RE: Talkeetna Mts nom forms

I'll scan & email copies 2day

J. Johnson  
AWC Project Biologist  
907-267-2337

**From:** Ivey, Samuel S (DFG)  
**Sent:** Monday, September 08, 2014 2:46 PM  
**To:** Johnson, J D (DFG)  
**Subject:** Re: Talkeetna Mts nom forms

Yes, thanks

Sent from my iPhone

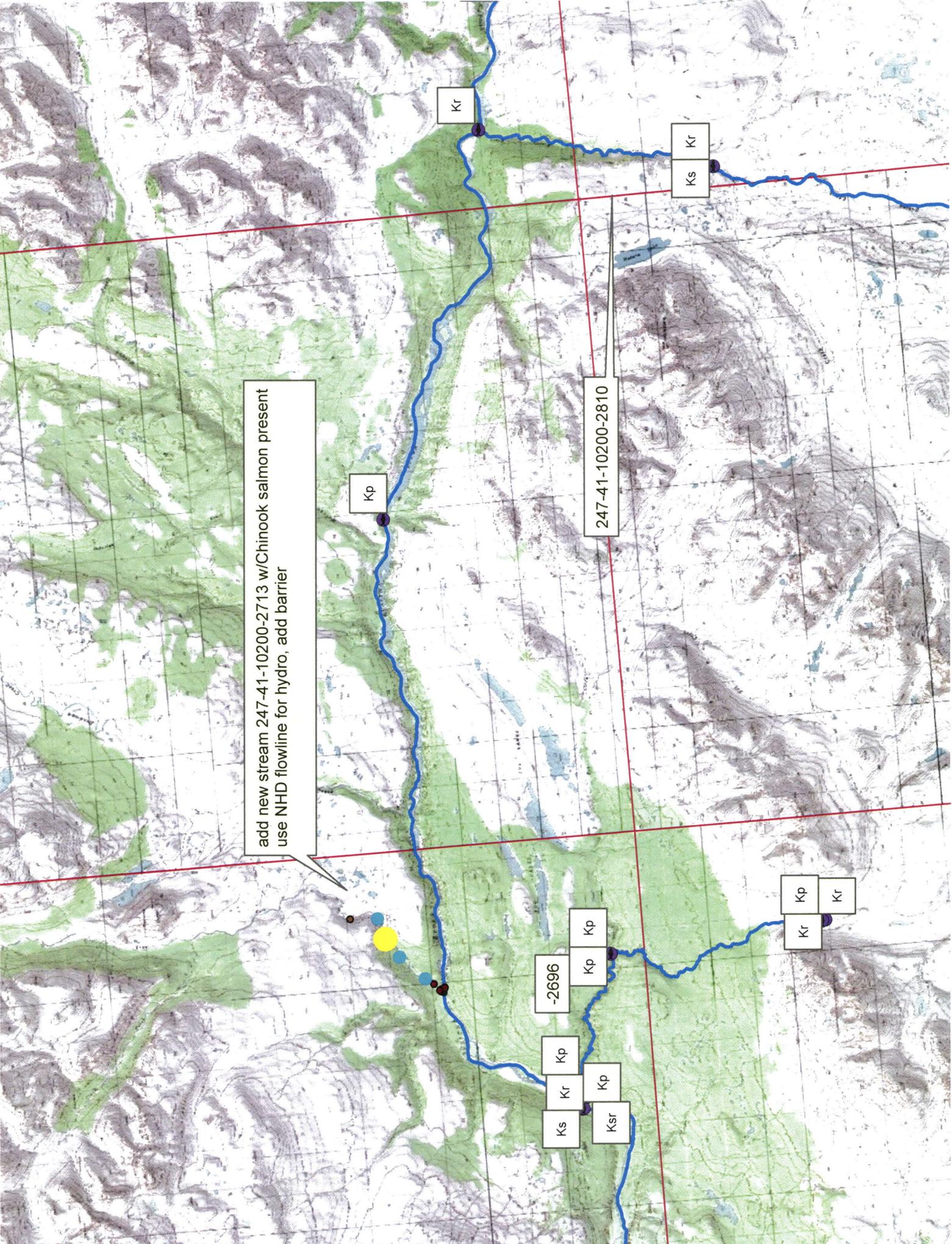
On Sep 8, 2014, at 2:44 PM, "Johnson, J D (DFG)" <[j.johnson@alaska.gov](mailto:j.johnson@alaska.gov)> wrote:

Sam

I recently received 6 nom forms for several creeks north of Palmer  
They were submitted by Nathan Anderson an Intern w/Commerce, Community & Economic  
Development  
AID-AIDEA ENERGY

Would you be interested in reviewing nom forms submitted by Nathan?  
If so, I'll scan and email to you, just to see if his observations are reasonable.

J. Johnson  
AWC Project Biologist  
907-267-2337



add new stream 247-41-10200-2713 w/Chinook salmon present  
use NHD flowline for hydro, add barrier

247-41-10200-2810

-2696

Kp

Kr

Ks Kr

Ks Kr

Kp Ksr

Kp Kp

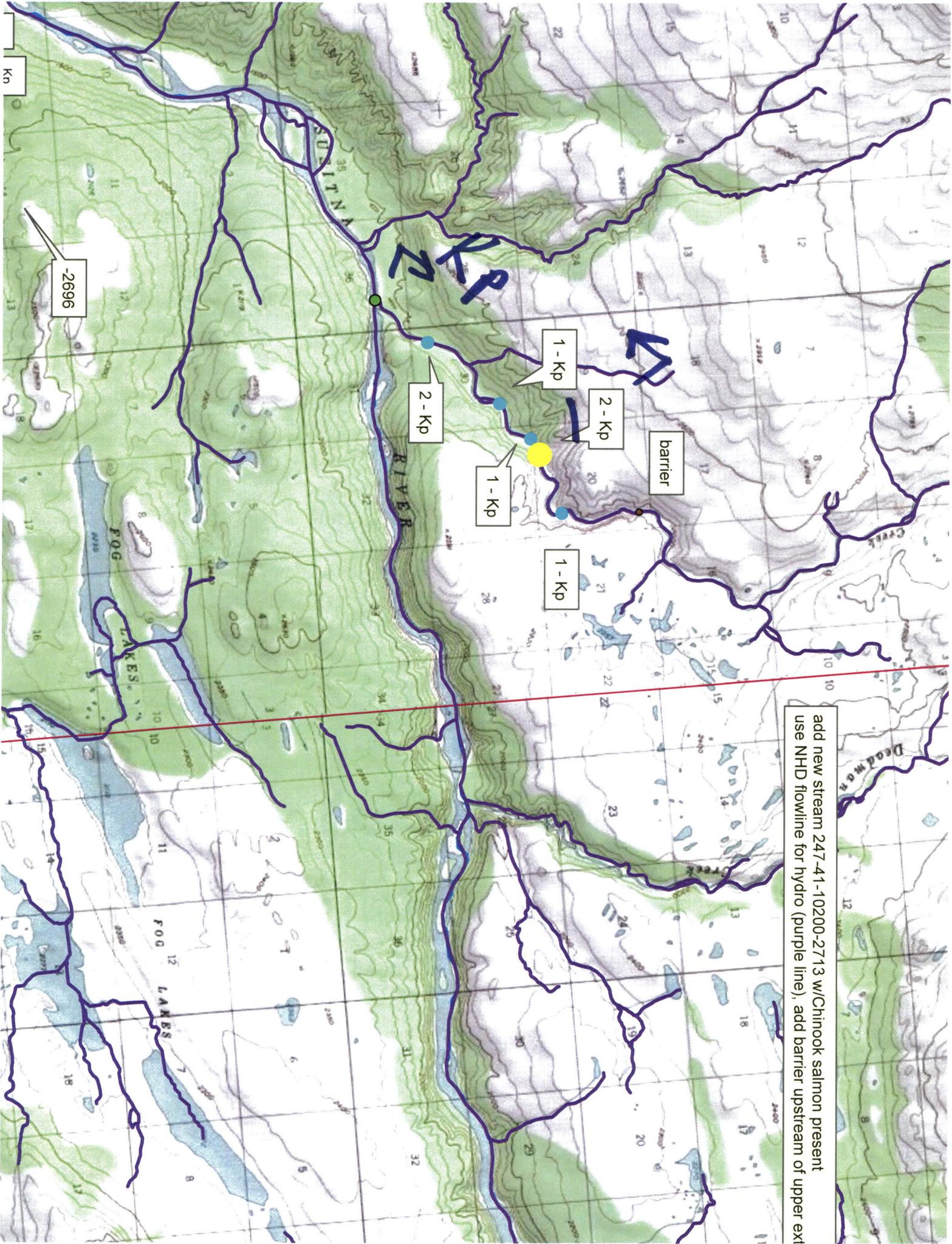
Kp Kp

Kp Kr

Kr

Kp

Kr



add new stream 247-41-10200-2713 w/Chinook salmon present  
use NHD flowline for hydro (purple line), add barrier upstream of upper ext

2696

2 - Kp

1 - Kp

2 - Kp

1 - Kp

1 - Kp

barrier

Handwritten blue text: 'Kp' with arrows pointing to specific locations on the river.

K0