



State of Alaska
Department of Fish and Game
Sportfish Division

Nomination Form
Anadromous Waters Catalog



Region Southeastern USGS Quad(s) SITKA A-4

Anadromous Waters Catalog Number of Waterway 113-41-10280

Name of Waterway Bear Crk USGS Name Local Name

Addition Deletion Correction Backup Information

For Office Use

Nomination #	<u>15-640</u>	<u>James J Hasbrouck</u>	<u>8/31/2015</u>
		Fisheries Scientist	Date
Revision Year:	<u>2016</u>	<u>Mark J. A.</u>	<u>8/31/15</u>
		Habitat Operations Manager	Date
Revision to:	<input type="checkbox"/> Atlas	<u>[Signature]</u>	<u>July 15</u>
	<input checked="" type="checkbox"/> Catalog	AWC Project Biologist	Date
Revision Code:	<u>0-2</u>	<u>TJ</u>	<u>9/29/15</u>
		GIS Analyst	Date

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous

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:

I recommend changing the name from Bear Crk to Medvejie Creek because that is what locals call the creek, that is the name of the Hatchery on the creek, and that is the name given to the creek in all the Fish Habitat Permits that have been issued since the 1980s. I am attaching a trip report from a recent site visit.

Coordinates (Lat,Long): Upper(57.0180,-135.1356) Lower(57.0138,-135.1492)

Rename Creek w/ local name

Name of Observer (please print): Gordon Willson-Naranjo
 Signature: 10.7.168.162 (Web Nomination) Date: 07/01/2015
 Agency: _____
 Address: PO Box 240212
Douglas, AK 99824

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 11/14
 Name of Area Biologist (please print): _____

MEMORANDUM

State of Alaska

Department of Fish and Game
Division of Habitat

TO: Jackie Timothy
SE Regional Supervisor

DATE: May 26, 2015

FILE NO: FH15-I-0058

THRU: Kate Kanouse
Habitat Biologist IV

SUBJECT: Medvijie Hatchery,
Sitka

FROM: Gordon Willson-Naranjo^{GWN}
Habitat Biologist

PHONE NO: (907) 465-6646

On May 10, 2015 Tess Quinn and I visited Northern Southeast Regional Aquaculture Association's (NSRAA) Medvejie hatchery, located at the mouth of Medvejie Creek¹ (Stream No. 113-41-10280 cataloged for chum, pink and coho salmon presence and Dolly Varden char presence) in Silver Bay, south of Sitka. Medvejie has a North Fork and South Fork, with the hatchery infrastructure in each, and buildings situated in between. The objective of the site visit was to familiarize myself with the workings and infrastructure of the Medvejie hatchery. NSRAA operations manager, Scott Wagner, gave us the tour.

NSRAA has Fish Habitat Permits for in-water work, including: stream training under FG95-I(S)-05 and FG95-I(S)-08; bank stabilization under FG95-I(S)-06 and FG95-I(S)-07, maintenance and removal of bed load materials under FG95-I(S)-09, FG97-I(S)-39, FG97-I(S)-40, FG99-I(S)-37, FG99-I(S)-37a, and FH15-I-0058; water intake installation under FG99-I(S)-38, FG99-I(S)-38a, and FH14-I-0019; rip-rap installation under FG99-I(S)-39 and FG99-I(S)-39a; large woody debris removal under permit FG97-I(S)-41; and emergency repairs under FG02-I(S)-77-890.

North Fork

On the North Fork Mr. Wagner showed me the intertidal picket weir, the recent bank stabilization and channelization work in the intertidal area, the upper permanent weir and water intake, and the newly constructed infiltration gallery and water intake in an existing pond.

The intertidal picket weir (Figure 1) is what NSRAA plans to rebuild sometime this summer. They will replace the existing piles, and place interlocking jersey blocks (Figure 2) along the stream bed from bank to bank to maintain a consistent grade so that the pickets will sit evenly across the bottom, negating the need for sandbags. This is a seasonal weir that is installed in June and removed in November.

¹ In the Anadromous Water Catalog the creek is named Bear Crk [sic], however the local name, and the name on all Fish Habitat Permits is Medvejie Creek. I will submit a nomination to change the name.



Figure 1.—Lower picket weir piles.



Figure 2.—Interlocking jersey block that will line the bottom of the picket weir.

The recent bank stabilization work and stream channelization was completed at the mouth of the creek using riprap on river right (Figure 3) and key wood, toed into the bank (Figure 4) on river left.



Figure 3.—Riprap bank stabilization on river right at the mouth.

Figure 4.—Key wood log revetments placed on river left to maintain channelization.

The upper, permanent weir and water intake (Figure 5) is approximately 100 m above the lower weir. The gaps in the weir are large enough to afford downstream migration for resident fish (Figure 6). The water intake is situated behind the weir. It is sufficiently screened to exclude fish (Figure 7), and is self-cleaning; however NSRAA staff periodically removes larger material that piles up.



Figure 5.—Upstream permanent weir.



Figure 6.—Upper weir affords downstream fish passage.



Figure 7.—Screened water intake behind weir.

The newly constructed pond water intake is on river left of the North Fork (Figure 8). The south bank of the creek was reinforced with riprap to maintain stability (Figure 9), with the existing pond located behind. NSRAA ran a pipe through the riprap to an infiltration gallery, buried about 1 m deep, immediately downstream of a large boulder in the creek (Figure 9). Tess e-fished the area around the infiltration gallery and did not capture fish. Mr. Wagner said that they

occasionally see Dolly Varden char in the pond (we did not observe any on our visit) however there are no inlets, which suggests they are swimming through the gravel bank.



Figure 8.—Intake pond with pipe running to infiltration gallery.



Figure 9.—Riprap on south bank and infiltration gallery below large boulder.

South Fork

In the South Fork, Mr. Wagner showed us the permanent weir immediately above the bridge, and the water intake upstream.

The permanent weir is a concrete structure approximately 1 m tall with a concrete curtain on the bottom so there is no jump pool (Figure 10).

The water intake (Figure 11) on the South Fork is an impoundment with an upstream infiltration gallery that is sufficiently screened to exclude fish.



Figure 10.—Concrete weir and curtain.

Figure 11.—Screened water intake.

Email cc:

Al Ott, ADF&G Habitat, Fairbanks
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