State of Alaska
Department of Fish and Game
Sportfish Division

Nomination Form
Anadromous Waters Catalog

Region: Southeastern

USGS Quad(s): Juneau ~~B-2~~ B3

Anadromous Waters Catalog Number of Waterway: 111-50-10300

Name of Waterway: Lena Creek ☑ USGS Name ☑ Local Name

☐ Addition ☐ Deletion ☑ Correction ☐ Backup Information

For Office Use

Nomination #	10-744	Fisheries Scientist	10/26/10 Date
Revision Year:	2011	Habitat Operations Manager	10/26/10 Date
Revision to:	Atlas ____ ____ Both X	AWC Project Biologist	9 Sept 10 Date
Revision Code:	D-1, E-9, C-9	Cartographer	4/1/10 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:

Lena Creek was surveyed to document the accurate stream route. The anadromous reach was found to terminate at a bedrock cascade with a barrier falls above. This creek was not trapped because it is being nominated for a route update for the existing cataloged species.
Coordinates (Lat,Long): Upper(58.39591,-134.74584) Lower(58.39549,-134.74851)

Revise stream hydrography, shorten stream, Add barrier

Name of Observer (please print): Tess Quinn

Signature: 146.63.139.55 (Web Nomination) Date: 09/03/2010

Agency:

Address: PO Box 35032 PO Box 35032
Juneau, AK 99803

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):

Johnson, J D (DFG)

From: Quinn, Tess (DFG)
Sent: Tuesday, October 26, 2010 12:46 PM
To: Johnson, J D (DFG)
Subject: RE: Shortened streams

If barrier height measurements are enough to ascertain that fish are unable to pass, then those changes are accurate. I was unable to climb above the barrier on 10-744 and my minnow traps caught nothing above the barriers on 10-808 and 10-742. They were all well above the blockage requirements for all species including steelhead for which "a blockage may be presumed if fall height in feet exceeds 13 feet." This is the greatest fall height. I'm attaching a scanned copy of the fish blockage chart I use in the field to determine height. I use a clinometer and a rangefinder to find the measurements.

Let me know what you think.

Thanks,
Tess

From: Johnson, J D (DFG)
Sent: Tuesday, October 26, 2010 12:23 PM
To: Quinn, Tess (DFG)
Subject: RE: Shortened streams

Tess

For some reason, those escaped the attn of the reviewers
What do ya think, if ya want to hold off on those changes we certainly can

JJ

From: Quinn, Tess (DFG)
Sent: Tuesday, October 26, 2010 12:17 PM
To: Johnson, J D (DFG)
Subject: Shortened streams

Hi J,

You will also find that nom #s 10-808 and 10-744 have no trap data either. This is because either I did not catch any fish of any species, or I was unable to get above the barrier. I was basing my nomination on barrier measurements using an anadromous fish barrier sheet that is found in the Forest Practices handbook. That is the only document I could find that had standard measurements and barrier heights for anadromous species.

I will revisit these three streams and find a way to scramble above the barriers to set some more traps.

Thanks,

Tess Quinn

Anadromous Fish Blockage

	Species Requirements (in feet)				
Criterion	Coho	Steelhead	Sockeye	Chinook	Pink/Chum
Maximum Fall Height. A blockage may be presumed if fall height in feet exceeds:	11	13	10	11	a) 4 with deep jump pool b) 3 without pool
Pool depth. A blockage may be presumed if the unobstructed water column depth in feet within the pool is less than:	1.25 X jump height, except that no minimum pool depth exists for falls as follows: a) less than 4 in the case of coho and steelhead; and b) less than 2 in the case of other anadromous fish species				
Steep channel. A blockage may be presumed at the upper end of the reach if channel steepness in feet is equal to or greater than the following without resting places for fish:	≥225 at 12 percent gradient ≥100 at 16 percent gradient ≥50 at 20 percent gradient ≥25 at 24 percent gradient				≥100 at 9 percent gradient

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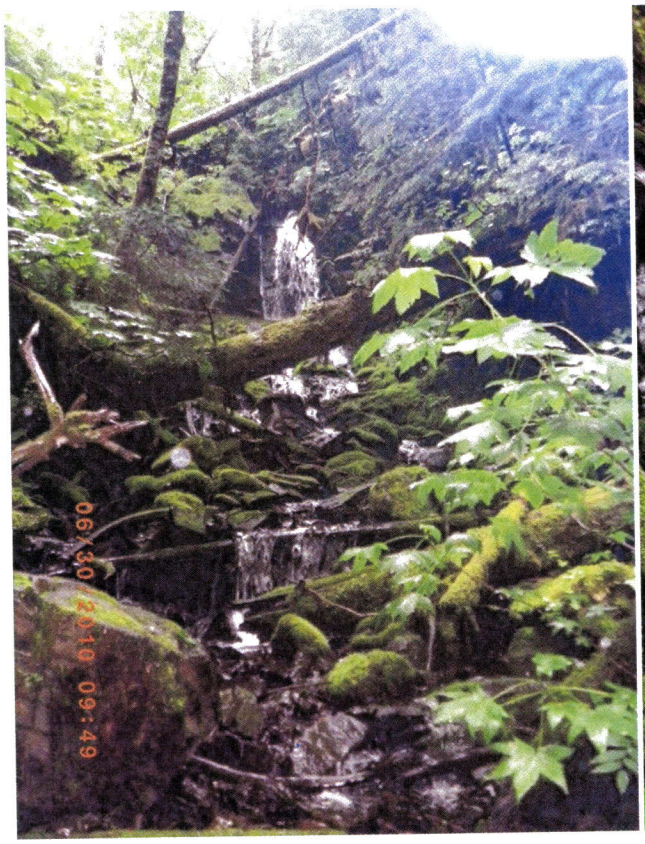
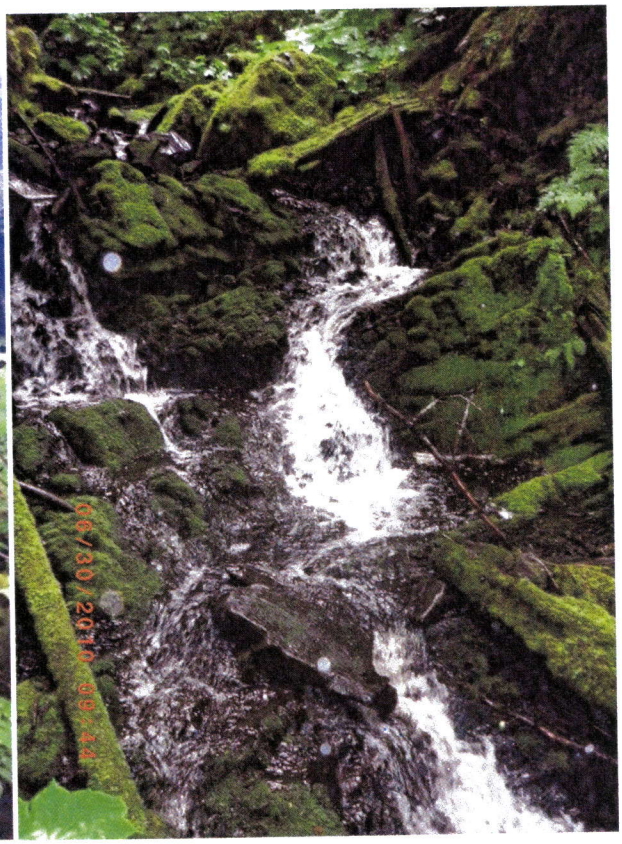
Route Correction for Lena Creek (111-50-10300)

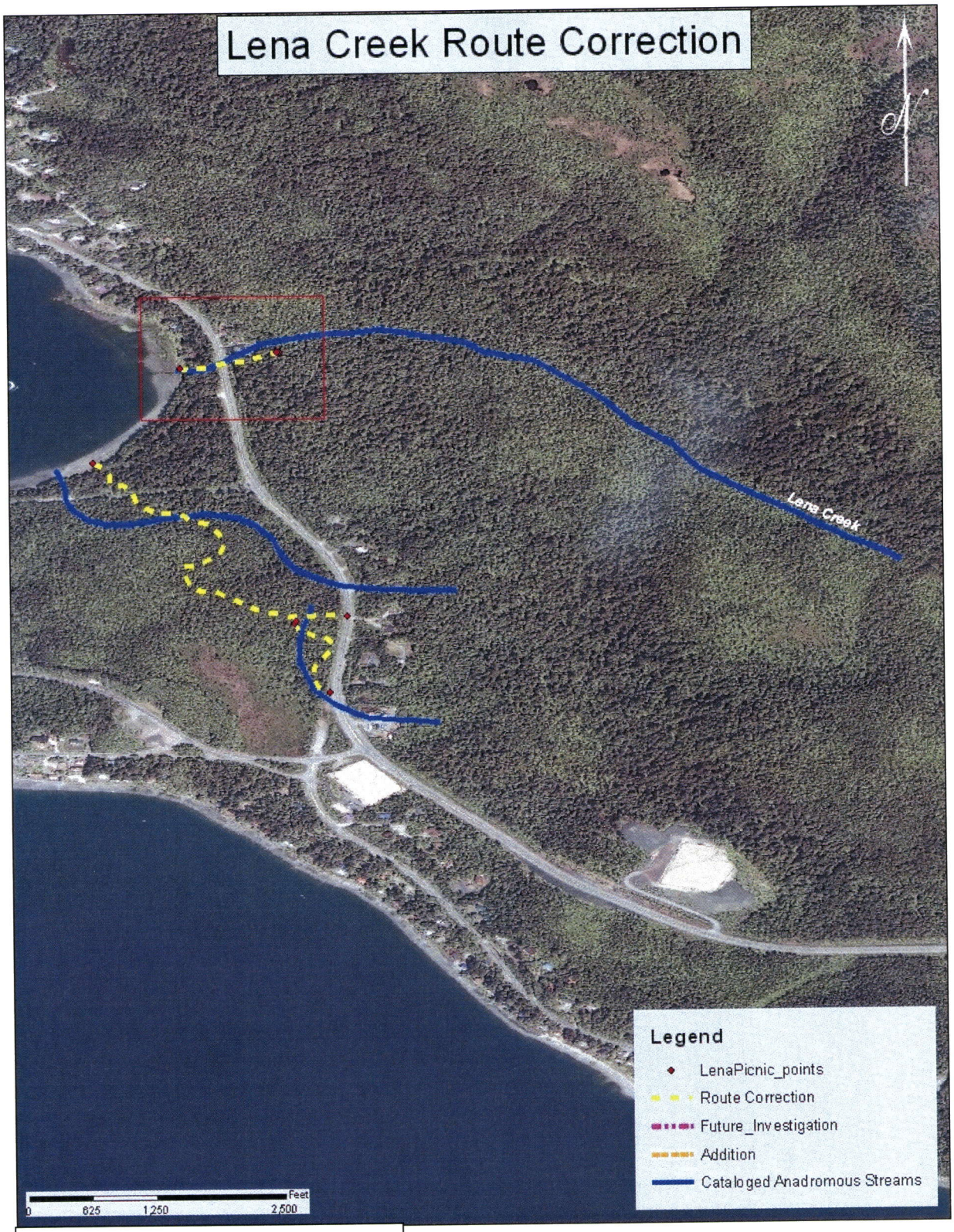
The cataloged route of Lena Creek was walked and tracked until a barrier to fish passage was encountered. There is a waterfall barrier with a 45-50% gradient over approximately 140 feet, upstream of the culvert passing under Glacier Highway. The following coordinates indicate the upper and lower extent of anadromous fish habitat in Lena Creek for species presently listed in the Anadromous Waters Catalog. The red outline on the included map indicates the route correction on Lena Creek.

Waypoint	LAT	LONG_
7	58.39549	-134.74851
8	58.39591	-134.74584





Left photo: Series of rocky cascades with a barrier falls in the background.
Right photo: Cascade along the barrier reach showing moss and bedrock substrate.



Tess Quinn
Alaska Department of Fish and Game
Division of Habitat
(907) 465-1635
tess.quinn@alaska.gov

Revise hydrography for
111-50-10300
add brown
X