



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

Nomination Form  
Anadromous Waters Catalog

PS  
ME

Region Southwest USGS Quad(s) Iliamna D-6  
 Anadromous Waters Catalog Number of Waterway 324-10-10150-2207-3018  
 Name of Waterway Lover's Creek  USGS Name  Local Name  
 Addition  Deletion  Correction  Backup Information

For Office Use

Nomination #	<u>130017</u>	<u>al cl</u>	<u>8/27/13</u>
Revision Year:	<u>2014</u>	Fisheries Scientist	Date
Revision to:	Atlas _____ Catalog _____	<u>Whitney A</u>	<u>8/27/13</u>
	Both <input checked="" type="checkbox"/>	Habitat Operations Manager	Date
Revision Code:	<u>A-Z, A-3</u>	<u>CLF</u>	<u>1/29/13</u>
		AWC Project Biologist	Date
		<u>JDG</u>	<u>1413</u>
		Cartographer	Date

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Coho salmon	8/14/12		X	X	<input checked="" type="checkbox"/>
rainbow trout	8/14/12		X	X	<input type="checkbox"/>
<u>Add local name "Lover's Creek" to dB</u>					
<u>Add new stream w/ Coho salmon rearing</u>					

**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: Tributary to Newhalen River (east side) - Section 13 T. 45/R. 33W  
 2 minnow traps set  
 6 CO captured (49-112 mm FL)  
 1 RT captured (96 mm)

Name of Observer (please print): JOSH BREKKEN  
 Signature: Josh B Date: 11/8/12  
 Agency: ADFG  
 Address: 333 Raspberry Rd  
Anchorage, AK 99517

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

ALASKA DEPT. OF  
FISH & GAME  
JAN 18 2013

8/14/12

juvenile coho in culvert  
photo 876 outlet of lake  
- culvert failing (collapsing  
from above)

877-880 US view of culvert  
from DS

- juvenile fish obs upstream  
and downstream of  
culvert.

- wetland system below  
culvert undeveloped channel  
appears to come to

Channel again downstream  
 $T = 15^{\circ}\text{C}$  (downstream of  
culvert)

lots of overhanging veg  
Substrate - sandy silt w/

Some small gravel where  
flow is present

Long Nose Suckers (2.6") obs below  
culvert + juv. salmon

~115 mm coho captured in net

just upstream of culvert  
95 mm coho near lake outlet.

8/14/12

1345 Lower's Creek

DS of culvert (~100 yds from  
Nash River)

1 49 mm coho salmon photo 890-891

walk upstream to check trap above culvert

juvenile salmonids obs. upstream of culvert

US of culvert (~50')

112 mm coho photo 893

96 mm coho

110 mm coho

95 mm coho 896

96 mm RT 894, 895

102 mm coho 897

1440 Bear Creek  $T = 14^{\circ}\text{C}$

3 bends above road culvert

~200' above culvert

RT 100 mm

RT 96 mm

CO 84 mm

RT 115 mm DU 135 mm

RT 134 mm RT 125 mm

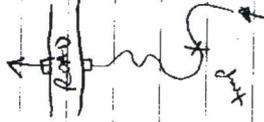
CO 84 mm

RT 94 mm

RT 100 mm

RT 120 mm

RT 115 mm



8/14/12

1450 Leave Bear Creek

1515 Check-in @ Niwama Air

Bear Creek

juv. coho, RT, + DU above culvert

Above culvert: single channel, riffle dominated, large gravel, sand, cobble overhanging veg (sweatbark, willow) entrenched in floodplain

Culvert: jacked up ~6" on invert end, increased velocity as a result  
@ culvert invert

Below culvert: similar to upstream, backho area off-channel and immediately downstream of culvert (RRB)

Lover's Creek

juv. coho, RT above culvert

Downstream of Culvert: single, swift channel w/ very little holding

water until close to Nashatun River, mostly one long riffle, gravel/cobble substrate w/ some spawning habitat. - poor rearing habitat until confluence area, wetlands present

8/14/12

Lover's (cont.)upstream of culvert: similar to DS of culvert w/ overhanging veg, single channel, riffle dominated gravel/cobble substrate, suitable spawning gravel  
Sediment pile in culvert on DS endS Fork Alexey

Upstream: excellent rearing habitat, poor spawning, sand/silt/gravel substrate, overhanging veg (sometimes spans the oval), single drowned ♀

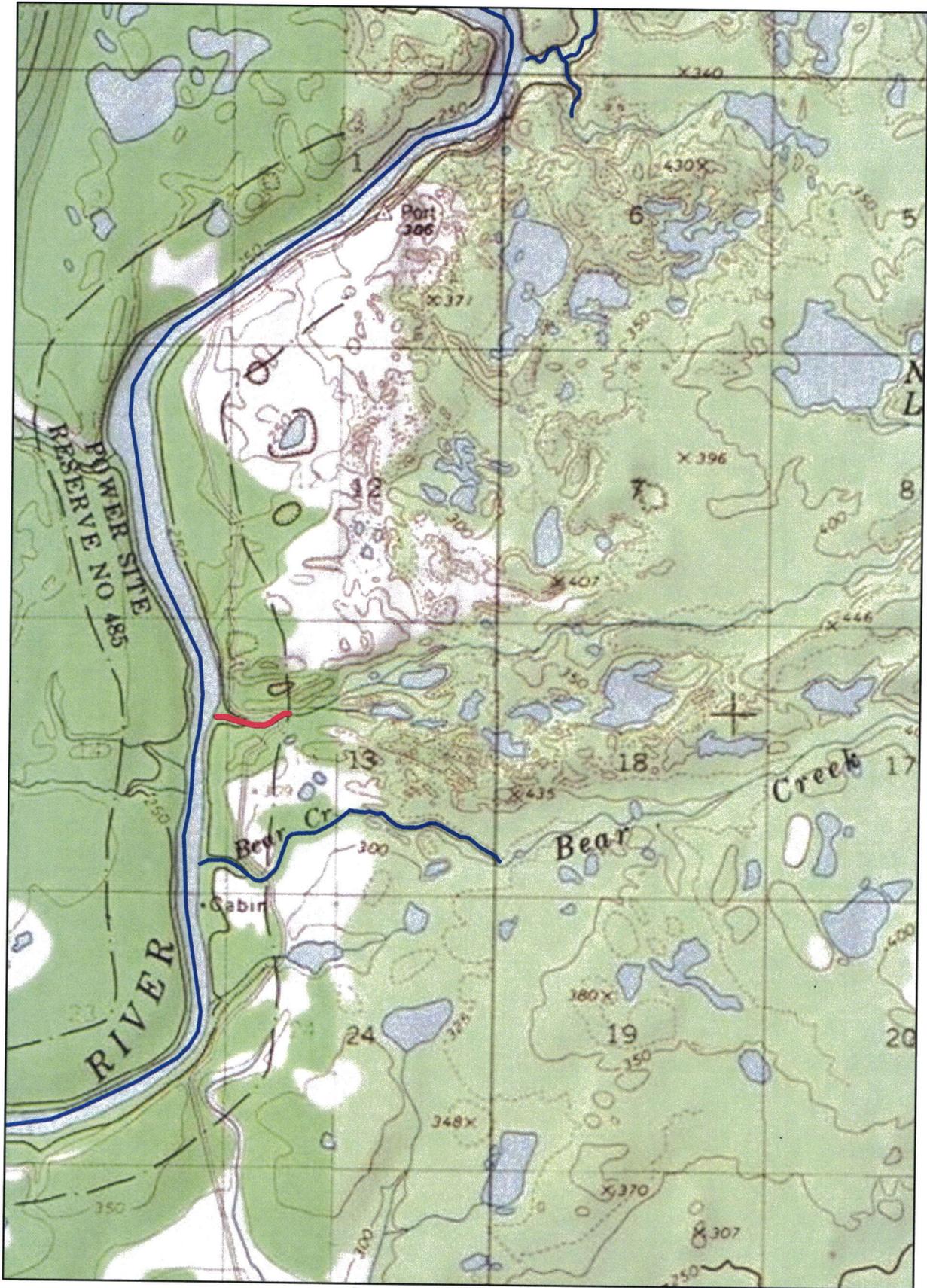
1730 Arrive ANC - Dams, prep gear

1800 End Day

(11)

JD

# "Lover's Creek" - juv. coho salmon and rainbow trout captured



— AWC Streams

On August 14, 2012, ADFG personnel, Josh Brekken, and ADOT personnel drove the length of the road between Iliamna and the Newhalen River near Nondalton to assess culverts for proposed upgrades and potential fish passage issues. Conditions were windy (10-15 knots), partly sunny, and 55°F.

During the trip, four culverts on the east side of the Newhalen River were inspected. ADF&G recorded habitat characteristics and conducted minnow trapping. Four minnow traps were set in two non-cataloged streams crossed by the road. Fish were captured in all four of the traps. Site specifics and trapping results are discussed below by site and are included to support nomination of these streams to the ADF&G Anadromous Waters Catalog and Atlas. Maps and field notes are also included to support nominations.

### Lover's Creek

The Iliamna-Nondalton road crosses Lover's Creek at 59.83178°N and 154.88741°W. The culvert appears to be passable to both juvenile and adult fish. The stream at this location is swift, dominated by riffle habitat (especially downstream of the crossing). The substrate is dominated by gravels with some cobbles. Upstream of the culvert the stream is a single channel and downstream of the culvert it exists as multiple channels. The riparian area is thickly vegetated with trees and shrubs. Suitable spawning and rearing habitat for salmonids is present upstream and downstream of the culvert. Stream temperature was 8°C at 0930.

One minnow trap was set downstream of the culvert (about 250 feet from the Newhalen River) and one trap was set about 100 feet upstream of the culvert at 0930 and 945, and retrieved at 1345 and 1400 respectively. **One 49 mm coho salmon** was captured downstream of the crossing. **Five coho salmon (ranging from 95 mm to 112 mm fork length) and one 96 mm rainbow trout** were captured upstream of the culvert.



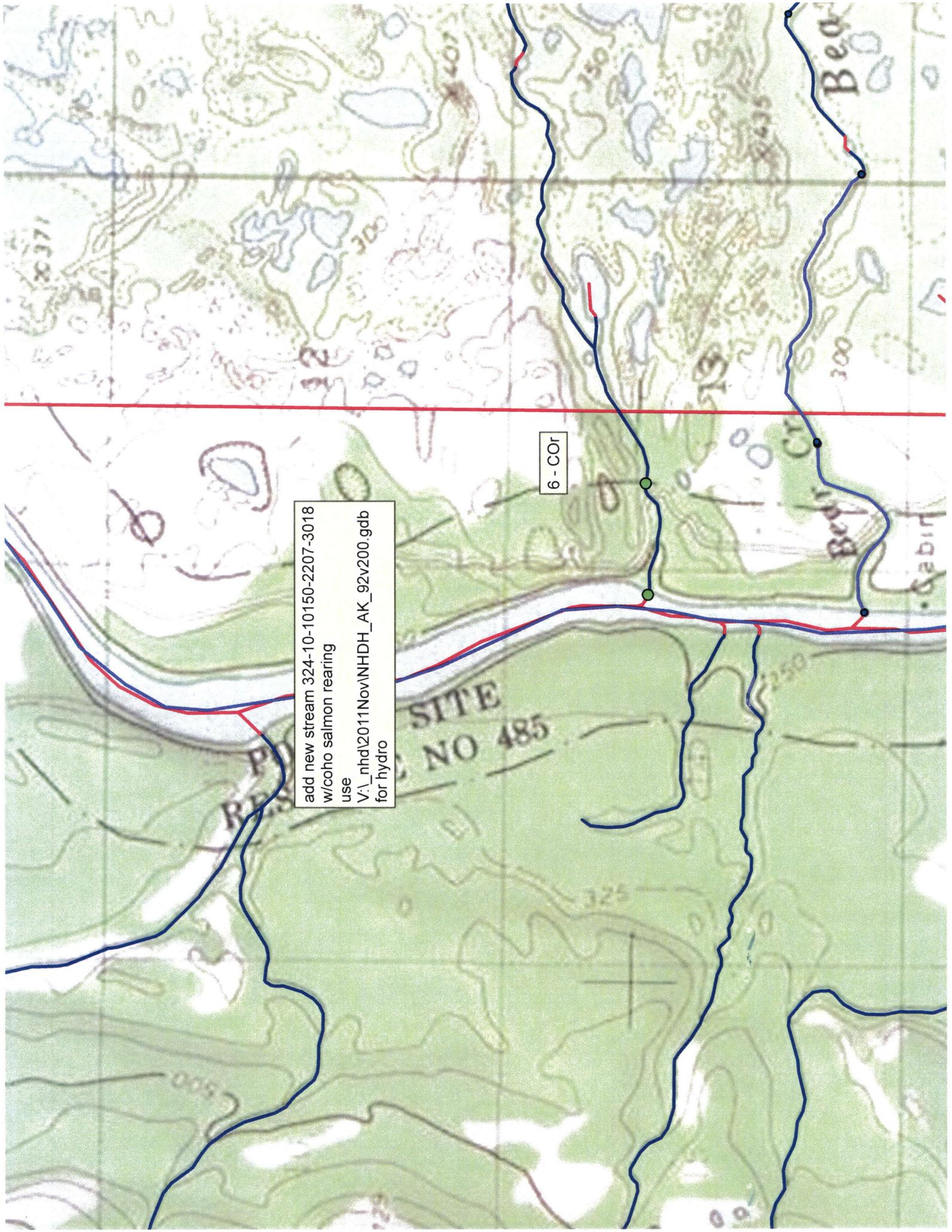
**Lover's Creek: Stream habitat downstream of crossing (looking downstream).**



**Lover's Creek: Substrate upstream of crossing.**



**Lover's Creek: Coho salmon captured in minnow trap.**



add new stream 324-10-10150-2207-3018  
w/coho salmon rearing  
use  
V:\\_nhd\2011Nov\NHDH\_AK\_92v200.gdb  
for hydro

6 - COR