



State of Alaska
Department of Fish and Game
Sportfish Division

Nomination Form
Anadromous Waters Catalog

M

Region Southeastern USGS Quad(s) Sitka A-5, A4

Anadromous Waters Catalog Number of Waterway 113-41-10185

Name of Waterway Peterson Creek USGS Name Local Name
 Addition Deletion Correction Backup Information

For Office Use

Nomination #	<u>09-1077</u>	<u>[Signature]</u> Fisheries Scientist	<u>10/30/09</u> Date
Revision Year:	<u>2010</u>	<u>[Signature]</u> Habitat Operations Manager	<u>10/30/09</u> Date
Revision to:	Atlas _____ Both _____	<u>[Signature]</u> AWC Project Biologist	<u>6 OCT 09</u> Date
Revision Code:	<u>3-2, A-1</u> <u>A3, C-9</u>	<u>[Signature]</u> Cartographer	<u>11/27/09</u> Date

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
coho salmon	05/12/2009		✓		✓
pink salmon	05/12/2009			✓	✓
Dolly Varden	05/12/2009				✓

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 Stream 113-41-10185 extend to salmon, coho salmon, Dolly Varden
 Trapped a total of 19 (55-110mm) juvenile coho salmon, saw dozens more (<50mm) with minnow traps. Trapped 3 (40-80mm) Dolly Varden with minnow traps. Caught 1 pink salmon fry in plastic bag, saw several more (35mm).
 Add local name Peterson Creek to stream no 113-41-10185. Extend upper extent to 56.06377 N, 135.33286 W. Walked and tracked stream, trapped upper extent, stream subsurface and in muskeg beyond here. Correct route for lower extent through neighborhood. Route map and trapping information on attached trip report.
 Coordinates (Lat,Long): (56.06377,-135.33286)

Dolly Varden present
Add coho, pink salmon Dolly Varden
READY

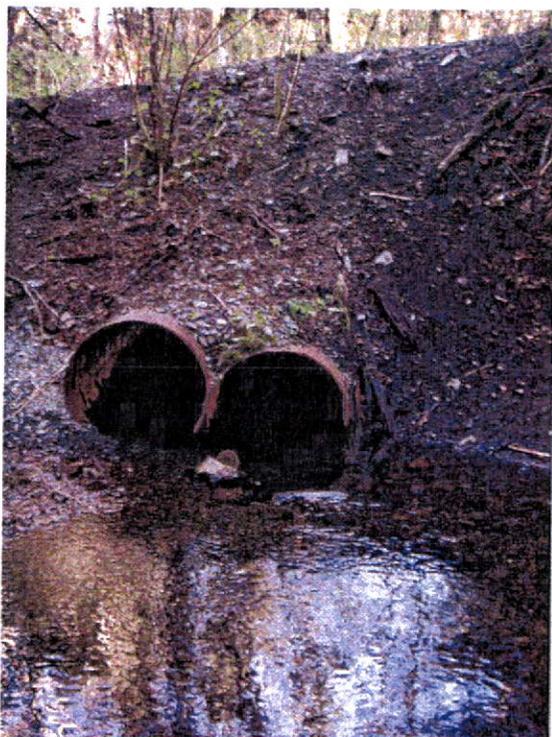
Name of Observer (please print): Kristen Dunlap
 Signature: 146.63.139.74 (Web Nomination) Date: 09/24/2009
 Agency: _____
 Address: PO Box 110024 PO Box 110024
Juneau, AK 99811

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): _____

5.

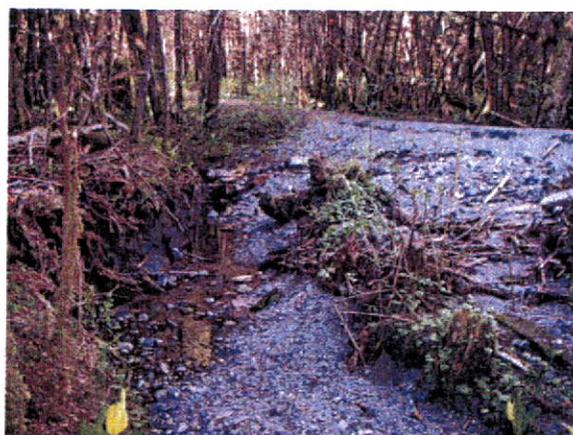
DESCRIPTION	LAT	LONG	SOAK TIME hh:mm	SPECIES, LENGTH
Set trap in trib upstream of washout. Photos of culverts and washout.	57.06358	-135.34072	1:35	empty



Culvert outlets.



Culvert inlets blocked by debris.



Trib to Peterson Creek and trail washout.

6.

DESCRIPTION	LAT	LONG
Upper extent of trib to Peterson Creek. Stream subsurface here, poor habitat.	57.06408	-135.34085

7.

DESCRIPTION	LAT	LONG	SOAK TIME hh:mm	SPECIES, LENGTH
Trib to Peterson. Set trap.	57.06398	-135.34127	2:00	empty

8.

DESCRIPTION	LAT	LONG	SOAK TIME hh:mm	SPECIES, LENGTH
Trib to Peterson. Set trap.	57.06368	-135.34095	2:01	1 Dolly Varden (50mm)

9.

DESCRIPTION	LAT	LONG	SOAK TIME hh:mm	SPECIES, LENGTH
Set trap.	57.06354	-135.34115	1:55	2 Dolly Varden (45-55mm)

1.

DESCRIPTION
Upper extent, stream flows subsurface here. Set trap.

LAT	LONG
57.06377	-135.33286

SOAK TIME hh:mm	SPECIES, LENGTH
0:23	3 coho (55-70mm)



Upper extent of Peterson Creek

2.

DESCRIPTION
Set trap.

LAT	LONG
57.06351	-135.33690

SOAK TIME hh:mm	SPECIES, LENGTH
0:56	1 Dolly Varden (80mm), 15 coho (60-110mm)



Fish from trap

3.

DESCRIPTION	LAT	LONG
Saw lots of small (<50mm) coho fry here	57.06351	-135.33710

4.

DESCRIPTION
Set trap. Caught pink salmon fry while filling bag with water

LAT	LONG
57.0634	-135.33937

SOAK TIME hh:mm	SPECIES, LENGTH
1:21	1 coho (65mm), 1 pink (35mm)



Pink fry

10.

DESCRIPTION	LAT	LONG
Confluence with trib behind ball fields	57.06337	-135.34428

11.

DESCRIPTION	LAT	LONG
Peterson Creek culvert under Wachusetts St.	57.06267	-135.34437



Culvert inlets



Perched culvert outlets

12.

DESCRIPTION	LAT	LONG
Peterson Creek culvert under Peterson Ave.	57.0616	-135.34365

Recommendations

I recommend replacing the double 18" culverts with a bridge or large enough culvert to pass fish. Culvert design guidelines can be found in the ADF&G/ADOT&PF Fish Pass MOA¹. Based on stream simulation design the culvert width at the ordinary high water (OHW) mark should be greater than $0.9 * OHW$ width and the culvert grade should be within 1% of the streams natural grade. In most cases culvert boundary roughness is required for fish passage and smooth-walled culverts are discouraged. Substrate material should be placed within the culvert barrel. Debris from the washout below the OHW mark of the unnamed tributary to Peterson Creek should be removed from the creek and the bank should be stabilized to prevent future washouts and protect the downstream culverts. This work will require a Title 16 Fish Habitat Permit.

The culverts described in number 11 above that run under Wachusettes Street are perched and do not provide adequate fish passage during all flows. I copied the DOT&PF Environmental Section on this trip report to make them aware of the situation.

I will submit corrected stream information for inclusion in the next update of the *Catalog of Waters Important for Spawning, Rearing, or Migration of Anadromous Fishes*.

¹ The Memorandum of Agreement Between the Alaska Department of Fish and Game and Alaska Department of Transportation and Public Facilities for the Design, Permitting, and Construction of Culverts for Fish Passage. This document can be found on the Division of Habitat's website at <http://www.habitat.adfg.alaska.gov/culvertbridge.php>.

Email cc:

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Deb Lyons, Sitka Trail Works, Sitka
Carl Schrader, ADOT&PF, Juneau
Claire Batac, ADNRCOM, Juneau

STATE OF ALASKA

DEPARTMENT OF FISH AND GAME DIVISION OF HABITAT

Sarah Palin, GOVERNOR

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MEMORANDUM

TO: Jackie Timothy
SE Regional Supervisor

DATE: May 19, 2009

FILE NO:

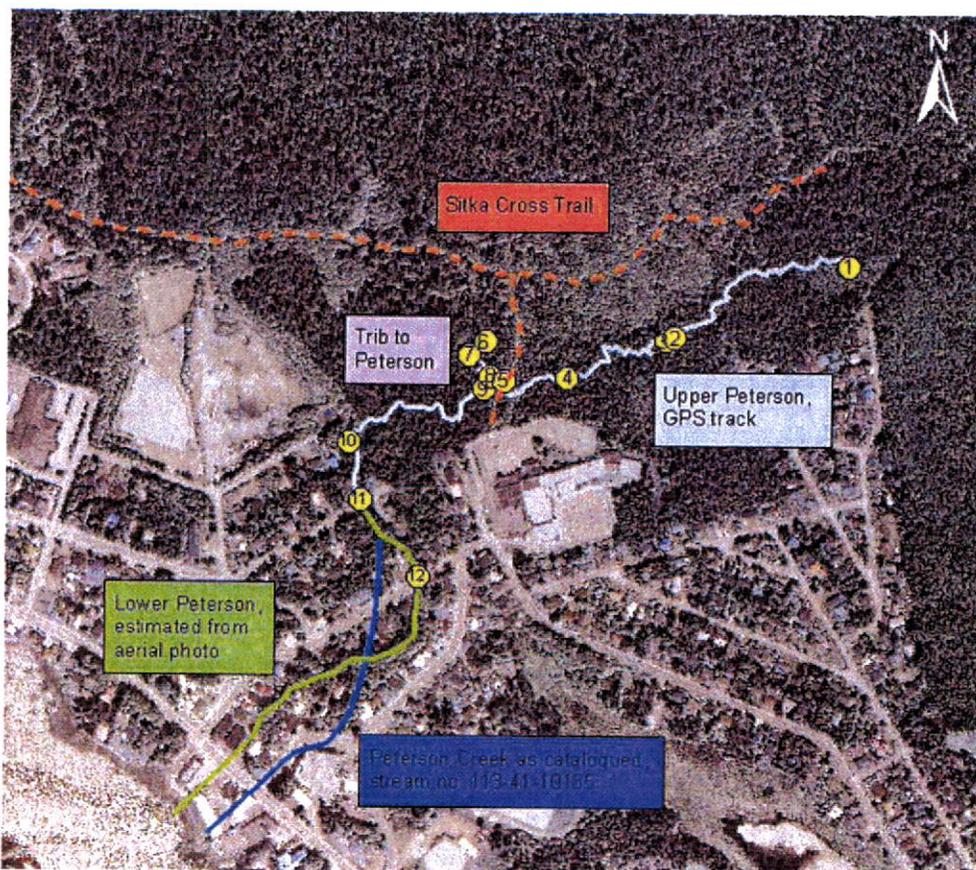
SUBJECT: Sitka Cross Trail Petersen
Creek Washout
Trip Report

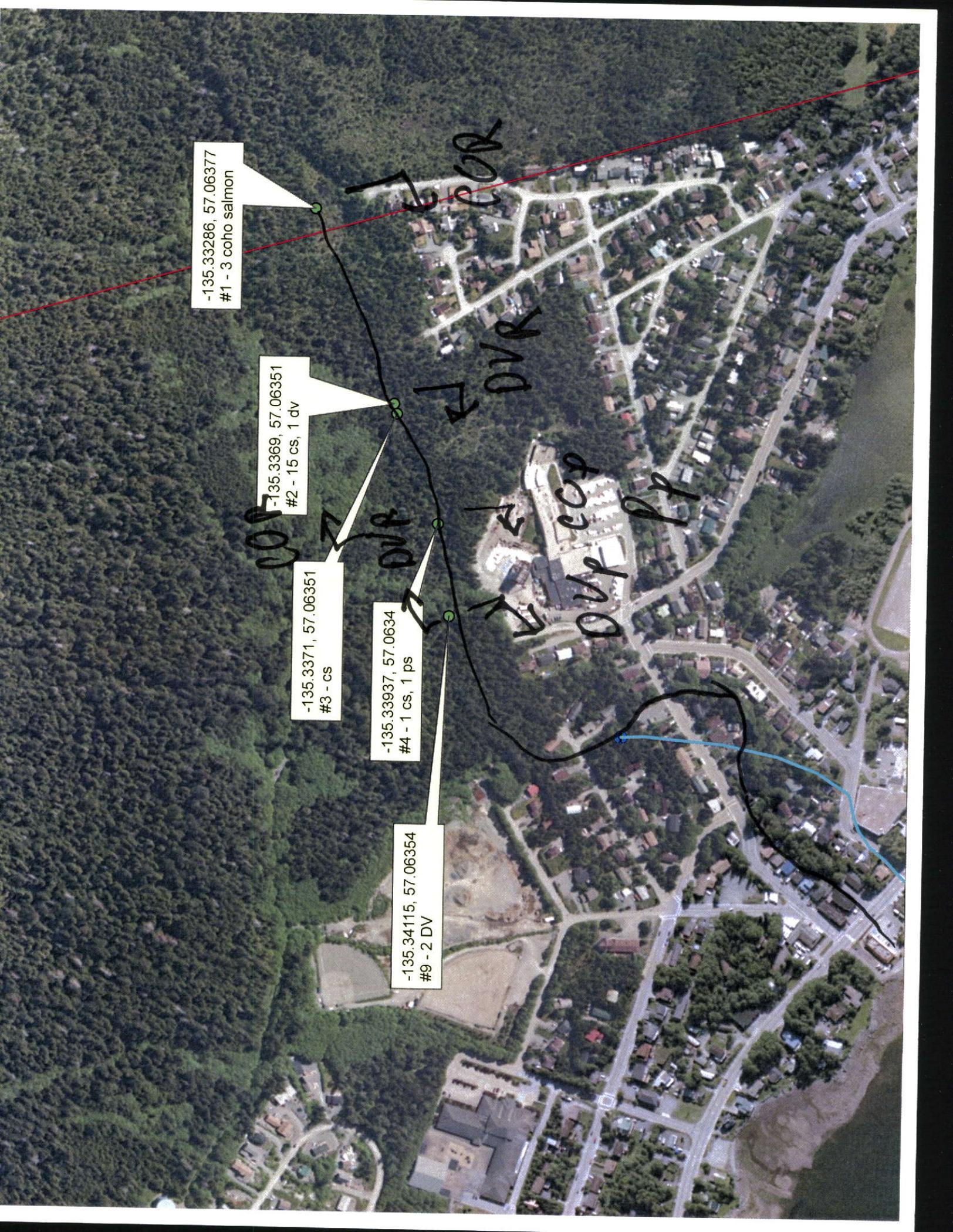
FROM: Kristen Dunlap
Habitat Biologist

TELEPHONE NO: (907) 465-1635

KD

On May 12, 2009 I visited the Sitka Cross Trail behind the high school. The purpose of the trip was to view a washout on the trail, two nearby culverts, and determine fish presence and extent of two streams in the area. Sitka Trail Works proposes repairing the washout and replacing the culverts. A map of the area, numbered descriptions, and recommendations follow.





-135.33286, 57.06377
#1 - 3 coho salmon

-135.3369, 57.06351
#2 - 15 cs, 1 dv

-135.3371, 57.06351
#3 - cs

-135.33937, 57.0634
#4 - 1 cs, 1 ps

-135.34115, 57.06354
#9 - 2 DV

COR

DVR

COR

DVR

DUP
ECP
PP