



State of Alaska
Department of Fish and Game
Sportfish Division

Nomination Form
Anadromous Waters Catalog

M E

Region Southeastern USGS Quad(s) Petersburg B-1

Anadromous Waters Catalog Number of Waterway 108-10-10050

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

For Office Use

Nomination #	<u>13-598</u>	<u>[Signature]</u>	<u>10/29/13</u>
		Fisheries Scientist	Date
Revision Year:	<u>2014</u>	<u>[Signature]</u>	<u>10/29/13</u>
		Habitat Operations Manager	Date
Revision to:	Atlas <u> </u>	<u>[Signature]</u>	<u>10/15/13</u>
	Both <u>X</u>	AWC Project Biologist	Date
Revision Code:	<u>B-2, C-9, E-9</u>	<u>[Signature]</u>	<u>11/01/13</u>
		Cartographer	Date

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
coho salmon	08/11/2013				
cutthroat trout	08/11/2013		✓	✓	✓
Dolly Varden	08/11/2013			✓	
				✓	

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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:

Coordinates (Lat,Long): Upper(56.3518,-132.312) Lower(56.34199,-132.3399)

*update hydrography, shorter streams, add barriers
add coho salmon REARING to streams*

Name of Observer (please print): Nicole Legere
 Signature: 146.63.61.200 (Web Nomination) Date: 09/19/2013
 Agency: _____
 Address: PO Box 110024 Room 209
Juneau, AK 99811-0024

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): _____

PAT CREEK ROUTE CORRECTION

Stream: Pat Creek (108-10-10050, cataloged for CHp,COp,Pp,Sp,CTp,DVp)

Watershed: Anita Bay-Frontal Zimovia Strait

MTRS: C064S084E, Petersburg B-1

Date Surveyed: August 11, 2013

Findings: We surveyed Pat Creek and its tributaries using and electrofishing unit and GPS (Table 1). We found that the current track for Pat Creek is incorrect. There is a 30' barrier waterfall (Figure 1) on this creek which is the upper extent of anadromy. The current catalog extends far past the waterfall (Figure 2).

Recommendations: Update the stream route and change the upper extent of anadromy for Pat Creek.

Table 1.– Pat Creek survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
446	56.3516	-132.3322	On Pat Creek, above lake. Very low flows, standing on a dry, disconnected bridge in mainstem.		
447	56.3512	-132.3312	Confluence of tributary and mainstem of Pat Creek.		
450	56.3516	-132.3310	Back on mainstem here, heading up.		
451	56.3521	-132.3301	At confluence of mainstem and tributary.	EF	2 CO 45-50 mm
480	56.3518	-132.3290	Tons of schooling CO in Pat Creek.		
481	56.3539	-132.3241	Confluence of possible tributary/side channel branch.		
482	56.3545	-132.3229	Confluence of tributary and West Fork Pat Creek.		
483	56.3544	-132.3223	Upstream of confluence. Round cobbles and gravels.	EF	No fish
484	56.3544	-132.3222	Big smolty CO in submerged wood.	EF	1 CO 85 mm
485	56.3544	-132.3220	Confluence of 3 tributaries into West Fork Pat Creek tributary. Pink flagging everywhere.	EF	DV
486	56.3544	-132.3220	On island between side channels. Only one of those tributaries was a tributary (far river left).		
487	56.3544	-132.3220	At diversion of side channels.	EF	1 CO 65 mm
488	56.3541	-132.3214	Confluence of West Fork Pat Creek tributary and other tributary. So braided.	EF	3 CT 65 mm

489	56.3541	-132.3213	Big smolty CO in slow murky tributary. Just up from confluence.	EF	2 CO 65 mm
490	56.3542	-132.3211	Schooling CO in murk. Electrofished 1 for ID.	EF	multi CO 35 mm
491	56.3540	-132.3210	Slow murky tributary in a side channel.		
492	56.3539	-132.3208	Large cobbles, some gravel. Run.	EF	2 CO 40 and 60 mm, 1 DV 50 mm
493	56.3536	-132.3207	Cobbles, wide riffle.	EF	CO
494	56.3534	-132.3206	In large pool below rooty log jam.	EF	2 CO 50-65 mm
495	56.3529	-132.3202	Calm side pool. This creek appears to be Pat Creek.	EF	2 CO 65 mm
496	56.3524	-132.3202	Tributary on river left coming into Pat Creek.		
502	56.3523	-132.3202	Back at confluence with Pat Creek.		
503	56.3517	-132.3185	Above boulder/cobble blowout. Stream changed course, dry on river right	EF	No fish
504	56.3514	-132.3180	Deep, clear pool. Boulder, cobbles substrate.	EF	multi CO 30-50 mm
505	56.3511	-132.3159	Boulder/cobble substrate. Nearing gradient increase.	EF	1 CT 50 mm
506	56.3513	-132.3154	Cobbles, boulders, some overhanging vegetation.	EF	1 DV 30 mm
507	56.3513	-132.3146	Base of debris jam, streambed drops approximately 6-7 ft. here. Possible side channels to move around.	EF	1 DV
508	56.3514	-132.3133	Boulders, some cobbles.	EF	1 CT 100 mm
509	56.3515	-132.3129	Getting steeper!!		
510	56.3518	-132.3121	Just below huge awesome falls!		
511	56.3518	-132.3120	End! Beautiful waterfall, 30-35 tall.		

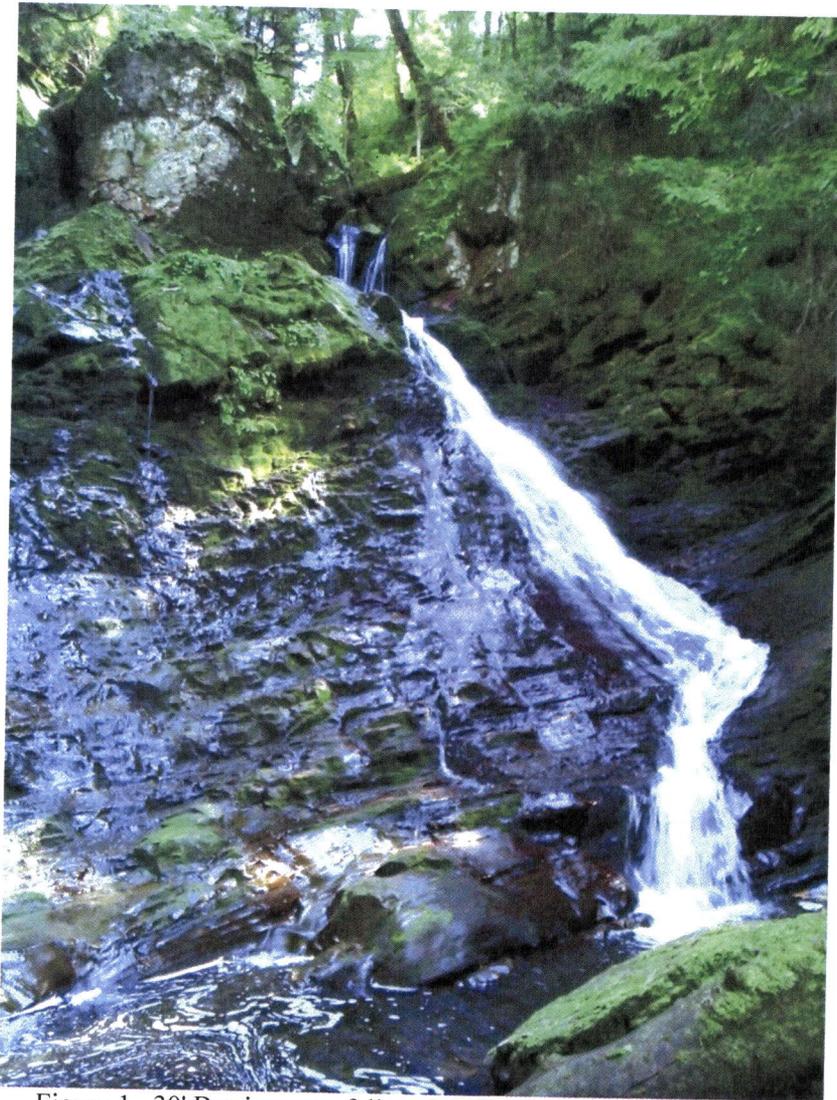


Figure 1.-30' Barrier waterfall on Pat Creek.

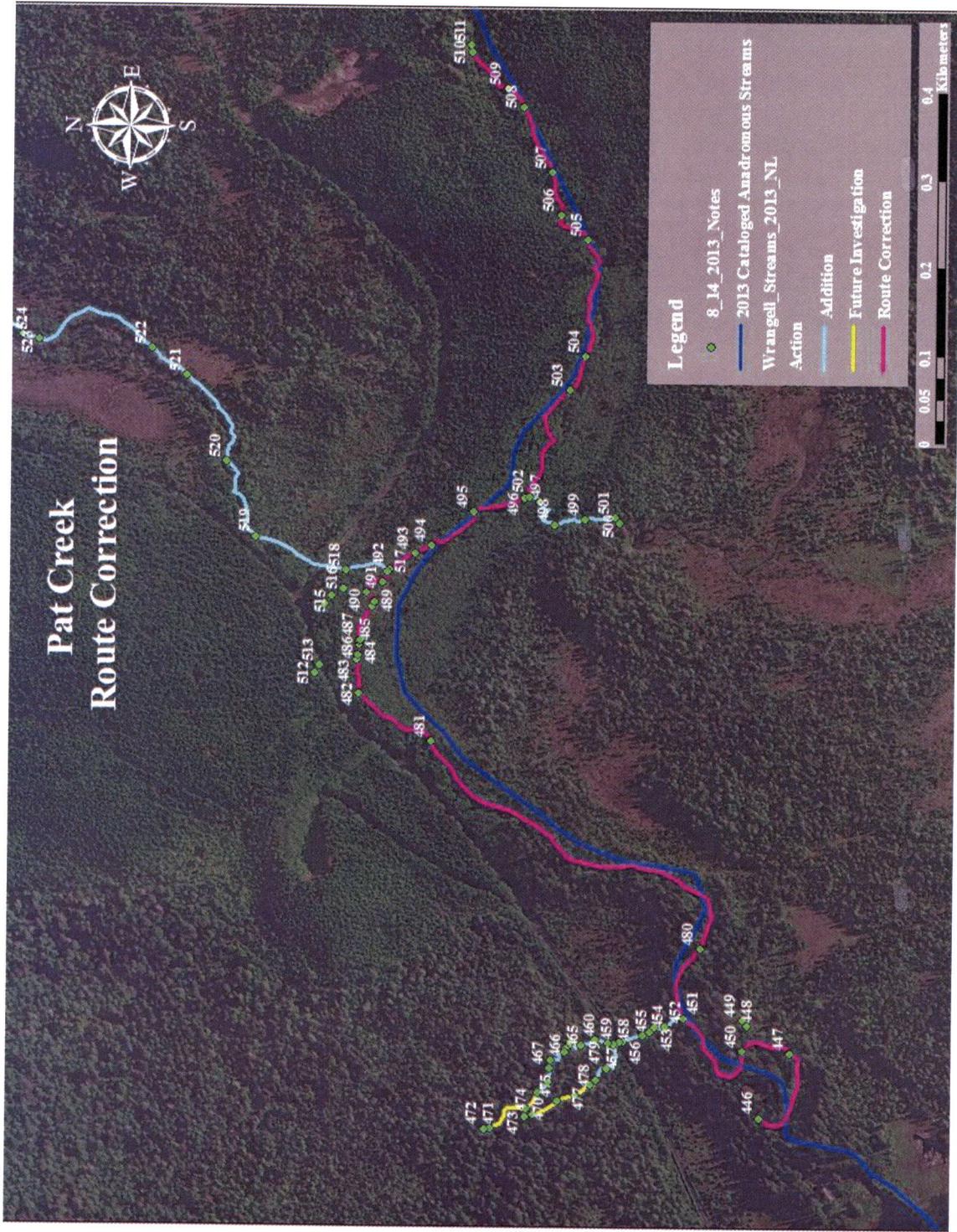
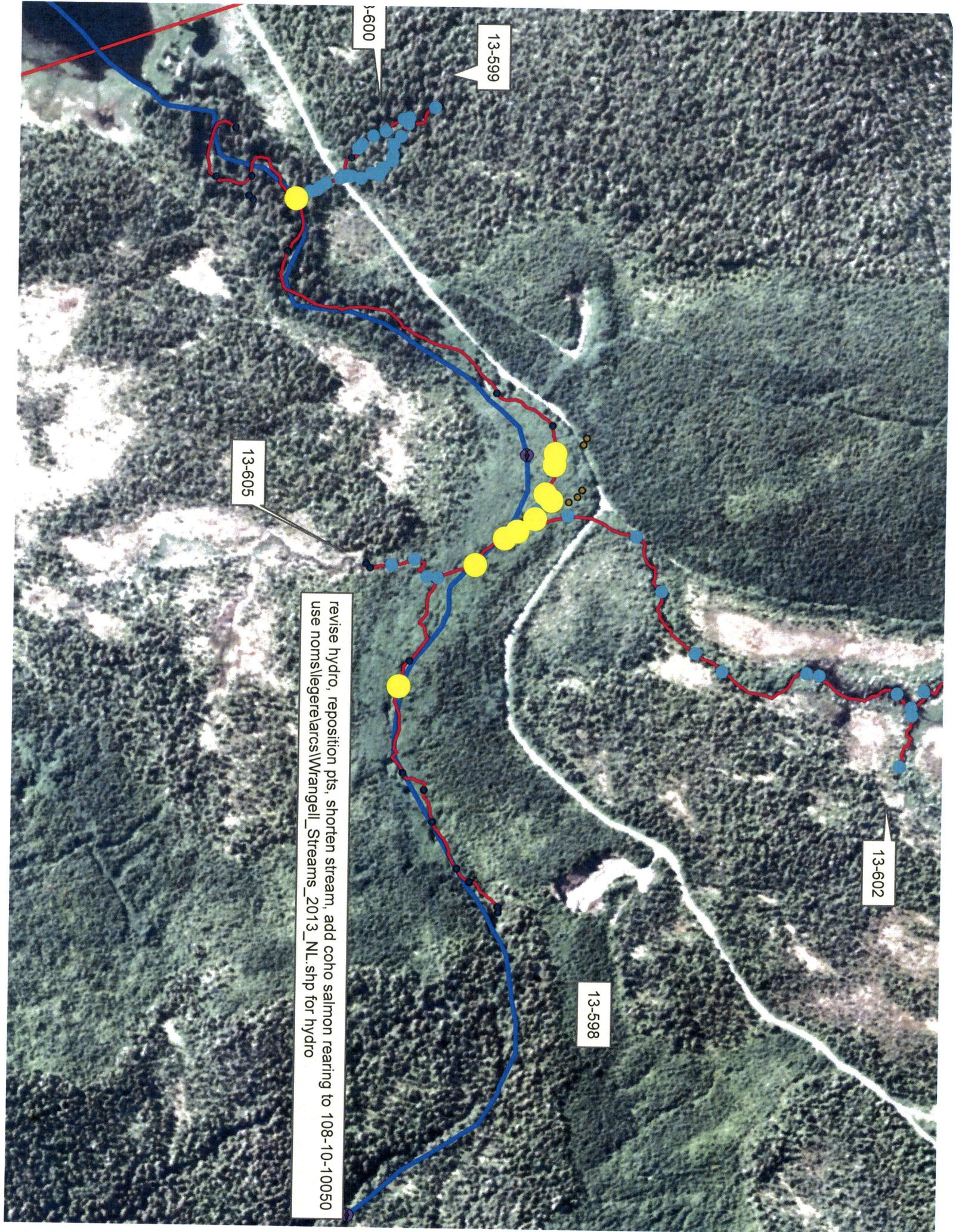


Figure 2.- Pat Creek route correction map.



revise hydro, reposition pts, shorten stream, add coho salmon rearing to 108-10-10050
use noms\legere\arcs\Wrangell_Streams_2013_NL.shp for hydro

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