

## 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 an 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.

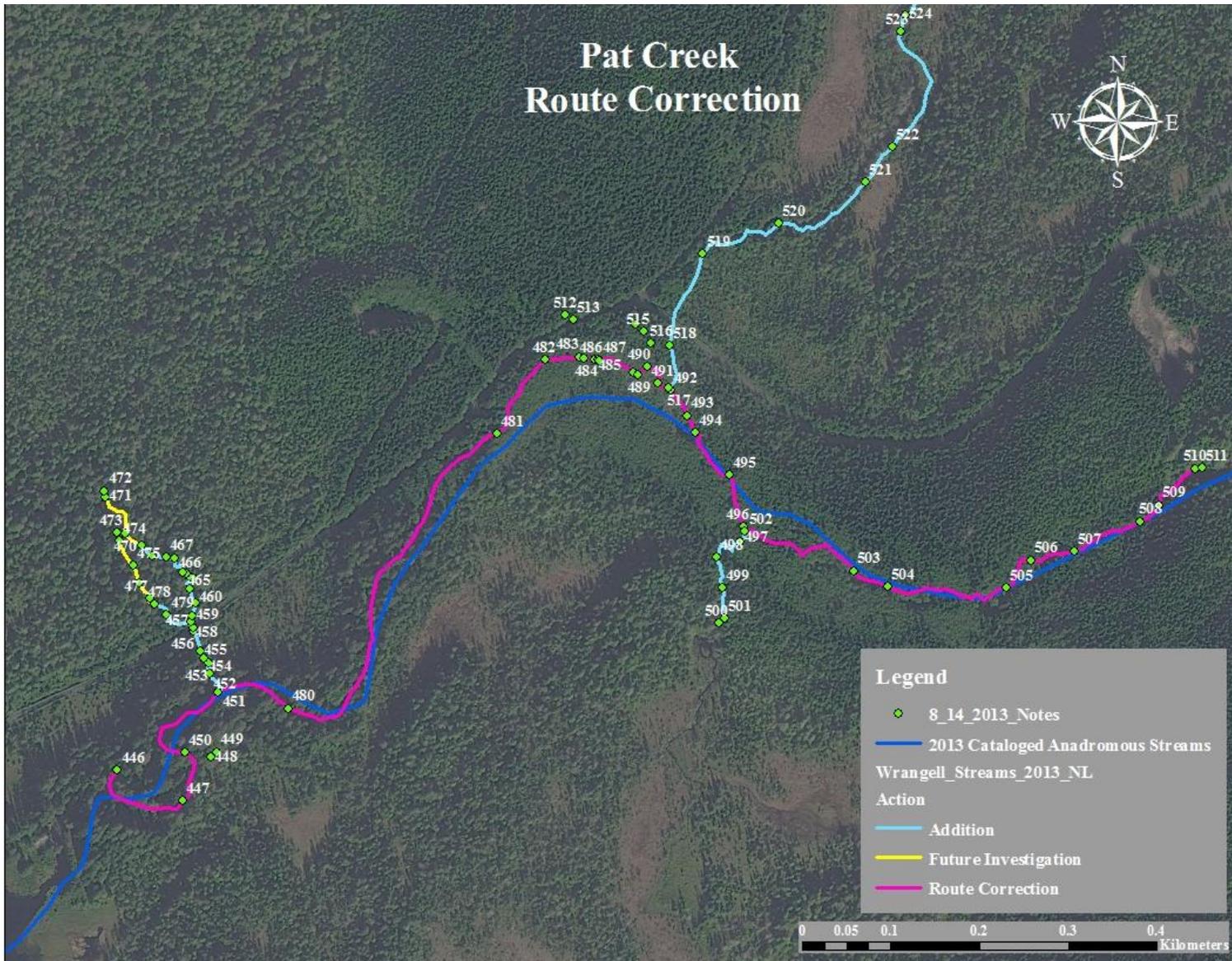


Figure 2.– Pat Creek route correction map.