










# Appendix N: Prince of Wales Island

---

## Guide to direct fieldwork for cataloging anadromous water bodies in Southeast Alaska



## Symbols and Abbreviations

K	Chinook salmon
CH	chum salmon
CO	coho salmon
CT	cutthroat trout (anadromous and resident juveniles and adults)
DV	Dolly Varden char
OU	eulachon
S	sockeye salmon
P	pink salmon
RT	rainbow trout (unknown juvenile or resident adult)
SC	sculpin sp.
SH	steelhead trout (adult)
SB	threespine stickleback
s	spawning
r	rearing
p	presence
EF	electrofishing
VI	visual identification
HN	handnet
RS	route survey
MT	minnow trap
BS	beach seine
FN	fyke net
 (ginger pink)	route correction
 (apatite blue)	addition
 (solar yellow)	future investigation
 (poinsettia red)	resident fish
 (lepidolite lilac)	conveyance
 (electron gold)	deletion
 (lapis lazuli)	AWC
 (lapis lazuli)	overflow channel
 (electron gold)	barrier

*This appendix is a working document updated as new information is acquired. Figures and tables are numbered per water body. Pages numbers are eliminated to prevent document reprinting when individual pages are inserted or removed.*



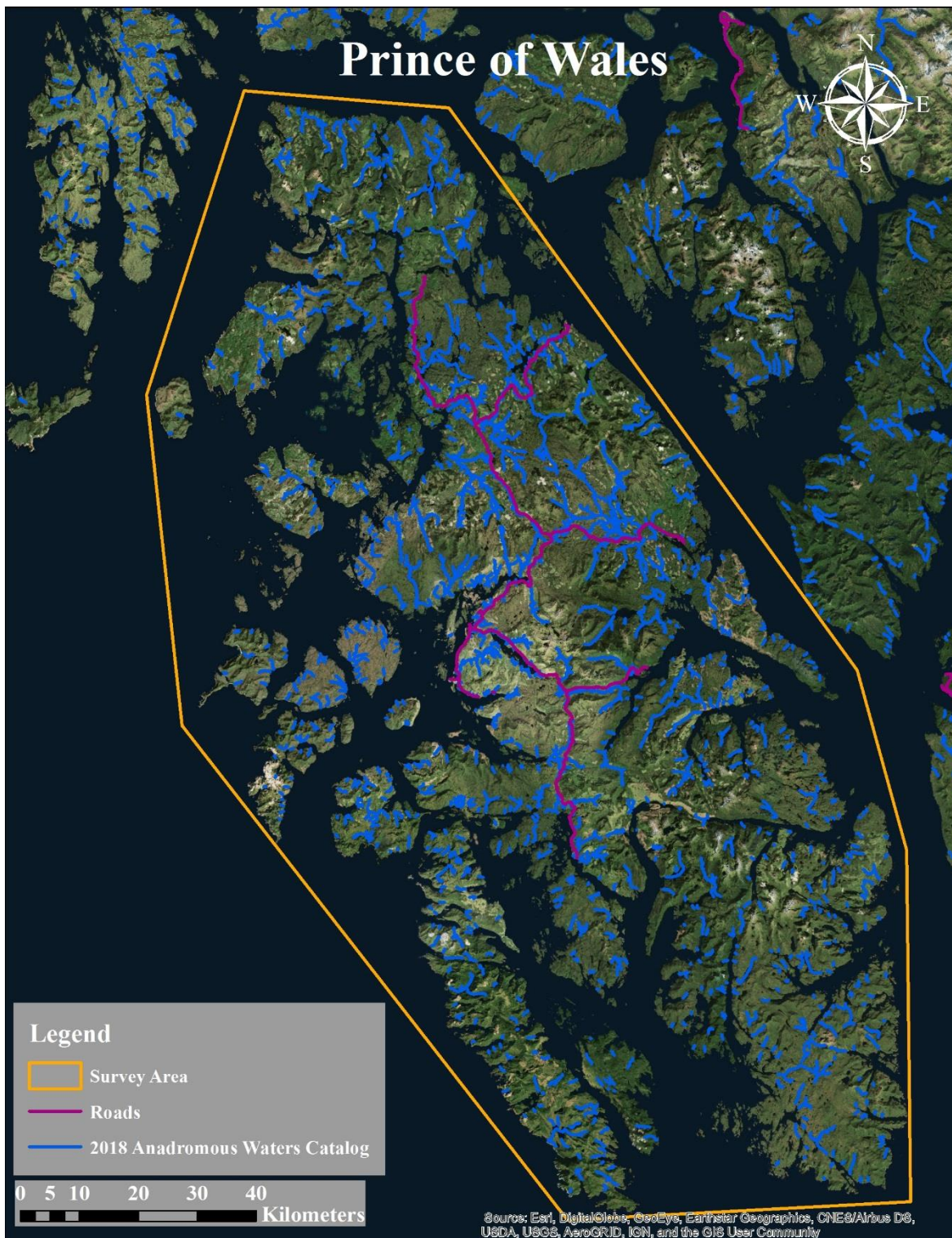


Figure 1.–Prince of Wales survey map.

Prince of Wales



## 102-60-10335

## ADDITION

**Water body name:**

**Survey date:** 8/19/2016

**Watershed:** Skowl Arm-Frontal Kasaan Bay

**Species & Lifestage:** CO

**MTR:** C075S085E **Quad:** Craig B-2

**Findings:** We surveyed this stream and found coho salmon (Table 1; Figure 1). The stream originates from several underground seeps.

**Recommendations:** Add the segment of the stream between waypoints 666 and 667 to the Anadromous Waters Catalog, and investigate the upper reaches of the stream at a later date (Figure 2).

**Nomination:** 17-571

Table 1.—102-60-10335 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
666	55.3393	-132.4721	Start survey.	EF	1 CO
667	55.3394	-132.4720		EF/VI	2 CO
668	55.3395	-132.4717	Stream originates from several underground seeps. End of fish. Stream no longer contains a defined channel, end survey.	EF	No fish



Figure 1.—Coho captured at Waypoint 666.





Figure 2.-102-60-10335 (Unnamed Polk Inlet stream) addition map.

**102-60-10358****ADDITION****Water body name:****Survey date:** 6/28/2016**Watershed:** Skowl Arm-Frontal Kasaan Bay**Species & Lifestage:** CO**MTR:** C075S085E **Quad:** Craig B-2**Findings:** We surveyed this stream and found coho salmon (Table 1; Figure 1). We determined this to be a rearing-only stream.**Recommendations:** Add the segment of the stream between waypoints 476 and 477 to the Anadromous Waters Catalog and investigate the upper reaches of the stream at a later date (Figure 2).**Nomination:** 17-570

Table 1.—102-60-10358 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
476	55.3182	-132.4601	Start survey. CO observed at creek mouth.	VI	1 CO
477	55.3184	-132.4599		EF	2 CO
478	55.3181	-132.4596	12% grade downstream for 65 ft. Creek further steepens above this WPT.	EF	No fish
479	55.3184	-132.4593	Grade at 14%. End survey due to steep grade barrier in rearing-only stream.	EF	No fish



Figure 1.—Coho salmon captured at Waypoint 477.





Figure 2.-102-60-10358 (Unnamed Polk Inlet stream) addition map.

**102-60-10359****ADDITION****Water body name:****Survey date:** 8/18/2016**Watershed:** Skowl Arm-Frontal Kasaan Bay**Species & Lifestage:** CO**MTR:** C075S085E **Quad:** Craig B-2**Findings:** We surveyed this stream with an electrofisher and GPS and found coho salmon and sculpin (Table 1; Figure 1). We ended the survey at the boundary of the logging parcel.**Recommendations:** Add this stream to the Anadromous Waters Catalog (Figure 2).**Nomination:** 17-572

Table 1.—102-60-10359 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
653	55.3177	-132.4615	Start survey above highest tideline mark.	VI	1 CO
654	55.3175	-132.4613	Large quantities of iron deposited on streambed.	EF	1 CO
655	55.3173	-132.4609		EF	2 CO
656	55.3162	-132.4605	Several CO VI to this point, creek runs dry here.	EF	No fish
657	55.3161	-132.4604	Channel regains flowing water here.	EF	No fish
658	55.3156	-132.4597	Grade starting to increase, stream composed of cobble. Water and streambed are much cleaner than lower down, no iron deposits.	EF	No fish
659	55.3154	-132.4585	No barrier found up to this point, stream goes off logging parcel, end survey.	EF/VI	2 SC, 2 CO



Figure 1.—Coho captured at waypoint 655.





Figure 2.-102-60-10359 (Unnamed Polk Inlet stream) addition map.

Prince of Wales



**102-60-10365****ADDITION****Water body name:****Survey date:** 6/22/2016**Watershed:** Skowl Arm-Frontal Kasaan Bay**Species & Lifestage:** COr**MTR:** C076S085E **Quad:** Craig B-2

**Findings:** We surveyed this stream using a backpack electrofisher and GPS. We found coho salmon, Dolly Varden char, and rainbow trout (Table 1; Figure 1). This stream is composed dominantly of large cobble, with numerous pools (Figure 2).

**Recommendations:** Add the segment of the stream between waypoints 382 and 403 to the Anadromous Waters Catalog, and investigate the upper reaches of the stream at a later date. (Figure 3).

**Nomination:** 17-569

Table 1.—102-60-10365 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
382	55.3117	-132.4656	Start survey at creek estuary, right above highest tide line.	EF	No fish
383	55.3117	-132.4658		EF	1 CO
384	55.3116	-132.4661		EF	1 CO
385	55.3114	-132.4662		EF	2 CO
386	55.3114	-132.4664	Confluence of trib into main channel, proceeding up trib on RR.	EF	No fish
387	55.3111	-132.4663	No fish captured or seen to this point.	EF	No Fish
388	55.3110	-132.4663		EF	1 CO
389	55.3109	-132.4663		EF	1 CO
390	55.3108	-132.4664	Small step falls 4 ft high by 8 ft wide with one small pool in the middle, shallow curtain of water flows above and below this "resting" pool. Possible barrier? Gradient is also increasing (13% over 48 ft).	EF	No fish
391	55.3107	-132.4663		EF/VI	2 CO
392	55.3104	-132.4664	Other side of logging road, no barrier to fish passage below here.	EF	No fish
393	55.3103	-132.4662	Creek becomes very incised and goes underground in sections.	EF	No fish
394	55.3103	-132.4663		EF	1 CO
395	55.3100	-132.4662	Creek sharply increases in grade (15% at 85 ft). Grade inceases substantially beyond this wpt. This section of stream is most likely a barrier to fish passage due to gradient. End survey.	EF	No fish

Table 2.—Continued.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
396	55.3114	-132.4665	Back on main channel.	EF	No fish
397	55.3112	-132.4668		EF	1 CO
398	55.3111	-132.4675		EF	1 CO
399	55.3108	-132.4678	Creek goes under logging road through a 5.5-6 ft CMP. No obstructions.	EF	No fish
400	55.3106	-132.4677	Other side of logging road/CMP, grade increases, and the creek is composed of large cobble.	EF	No fish
401	55.3105	-132.4677		EF	1 CO
402	55.3104	-132.4680	Grade continues to climb between WPTS 401-402 and beyond.	EF	No fish
403	55.3099	-132.4678	One CO between WPTS 402-403. Grade is 9% for 90 ft. Grade further increases beyond WPT 403. Although stream is composed mostly of large cobble, there are numerous pools.	EF	1 CO
404	55.3097	-132.4678	Grade is 11% for 120 ft. Small step falls right below this WPT, 3-4 ft tall, 6-8 ft wide. Grade above here continues to increase.	EF	1 CO
405	55.3094	-132.4679	Grade increases to approximately 18-20% for 117 ft. Several small falls above this WPT, which lead up to larger falls where grade becomes a fish barrier. End survey.	EF	1 RT, 1 DV



Figure 1.—Coho captured at Waypoint 383.



Figure 2.—Pool at Waypoint 403.



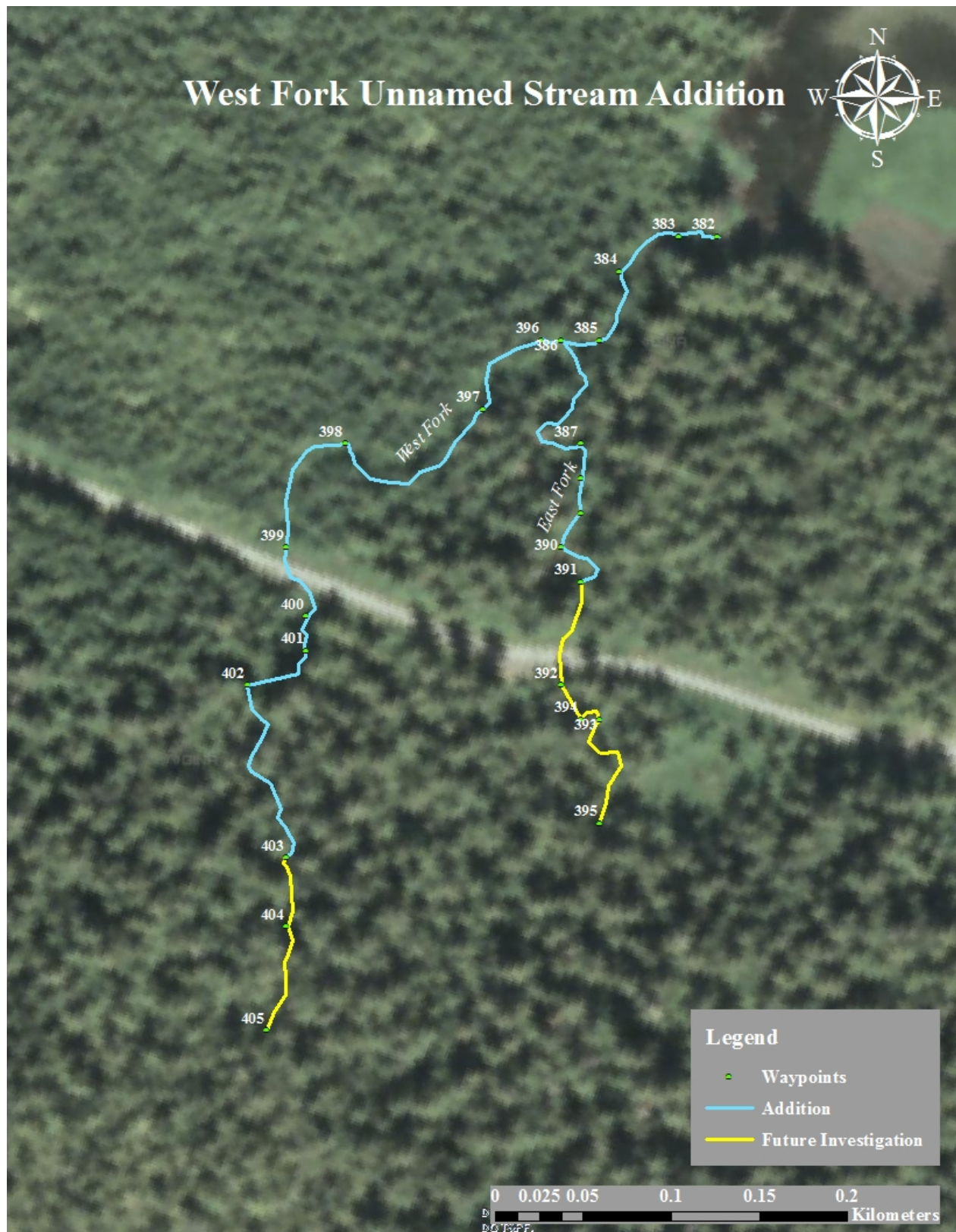


Figure 3.-102-60-10365 (West fork unnamed stream) addition map.

**102-60-10374****ADDITION****Water body name:****Survey date:** 6/24/2016**Watershed:** Skowl Arm-Frontal Kasaan Bay**Species & Lifestage:** CO**MTR:** C075S085E **Quad:** Craig B-2

**Findings:** We surveyed this stream using a backpack electrofisher and a GPS. We captured coho salmon (Table 1; Figure 1). The stream was characterized by heavy iron deposits and landslide debris (Figure 2). We ended the survey when the creek went underground at a barrier of gravel, cobble, and logs created by a landslide (Figure 3).

**Recommendations:** Add the indicated portion of the stream to the Anadromous Waters Catalog and investigate the upper portion at a later date (Figure 4).

**Nomination:** 17-566

Table 1.—102-60-10374 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
440	55.3246	-132.4773	Start of survey at creek mouth. This creek is in a VERY large slide path. The slide appears to have originated at approximately the 1,000 ft elevation mark on the hillside above, and traveled all the way to saltwater. Creek is very laden with iron deposits on the stream bed. Not a likely candidate for fish habitat.	EF	No fish
441	55.3246	-132.4774		EF	CO
442	55.3246	-132.4775		EF	CO
443	55.3245	-132.4778	Landslide has covered creek with massive amounts of gravel, cobble and logs. Creek goes underground in slide path and emerges 20 ft above WPT 442. This is a fish barrier. End survey.	EF	No fish





Figure 1.–Coho captured at waypoint 442.



Figure 2.–Heavy iron deposits.



Figure 3.–Barrier of gravel, cobble and logs.



Figure 4.-102-60-10374 (Unnamed Polk Inlet stream) addition map.





**102-60-10377****ADDITION****Water body name:****Survey date:** 6/21/2016**Watershed:** Skowl Arm-Frontal Kasaan Bay**Species & Lifestage:** CO**MTR:** C075S085E **Quad:** Craig B-2

**Findings:** We surveyed this stream using a backpack electrofisher and GPS. We captured coho salmon and Dolly Varden char (Table 1; Figure 1). We stopped our survey at a 14% grade continuing for 223 ft. before increasing.

**Recommendations:** Add the section of this stream between waypoints 465 and 466 to the Anadromous Waters Catalog and investigate the upper reaches at a later date (Figure 2).

**Nomination:** 17-565

Table 1.–102-60-10377 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
465	55.3406	-132.4839	Start survey on 17-18 ft hightide mark. Creek mouth is composed of large cobble that drops steeply into inlet.	EF	No fish
466	55.3407	-132.4842		EF/VI	2 CO
467	55.3406	-132.4844		EF	DV
468	55.3408	-132.4847	Several pools efished to this point, no fish found. Creek is very incised.	EF	No fish
469	55.3410	-132.4849	3 DV caught from here to WPT 469.	EF	3 DV
470	55.3406	-132.4857	Creek goes into skunk cabbage bog and becomes unchannelized and braided. At the start of this bog, each of the braids has an 18-24 inch, very shallow, low-flow falls.	EF	No fish
471	55.3403	-132.4860	At the back edge of skunk cabbage area, there is a trib on RL, proceeding up. Channel somewhat reforms, and grade starts to increase as creek goes uphill and back toward the road. Channel is very clogged with debris.	EF	No fish
472	55.3402	-132.4863	Grade at 11% for 70 ft. Grade continues to steepen on rearing-only stream. End survey.	EF	No fish
473	55.3402	-132.4858	Back on main channel, proceeding up.	EF	No fish
474	55.3399	-132.4859	Main channel at 9% for 86 ft. Creek further steepens beyond this point.	EF	No fish
475	55.3392	-132.4863	Grade at 14% for 223 ft, grade further steepens after this point. End survey.	EF	No fish



Figure 1.–CO captured at waypoint 466.



Figure 2.-102-60-10377 (Unnamed Polk Inlet stream) addition map.



**102-60-10380-2005****ADDITION****Water body name:****Survey date:** 6/17/2016**Watershed:** Skowl Arm-Frontal Kasaan Bay**Species & Lifestage:** COr**MTR:** C075S085E **Quad:** Craig B-2

**Findings:** We surveyed this stream using an electrofisher and a GPS and found juvenile coho salmon (Table 1; Figure 1). The stream crosses a meadow (Figure 2) and we found several beaver dams and ponds.

**Recommendations:** Add the portion of the stream between waypoints 316 and 328 to the Anadromous Waters Catalog and investigate the upper reaches of the stream at a later date (Figure 3).

**Nomination:** 17-564

Table 1.—102-60-10380 tributary survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
241	55.3365	-132.5044	Starting survey here, walking upstream in main channel. This is directly above the logging road crossing the stream.	EF	2 DV, 1 RT
242	55.3364	-132.5041	Stream splits, proceeding up RL trib.	EF	No fish
243	55.3362	-132.5037	Marshy bog area. A few fish observed but unable to identify. One CT shocked.	EF	1 CT
244	55.3358	-132.5032	Deep pool with one DV. Water seems to almost "seep" through ground to downstream. Very minimal channel above, which goes underground through rest of bog, then surfaces at WPT 245.	EF	DV
245	55.3357	-132.5031	Creek emerges back above	EF	No fish
246	55.3355	-132.5032	40-45 inch barrier on rearing only stream. Composed of bedrock entangled in roots, this is a barrier. End survey.	EF	No fish
247	55.3363	-132.5027	Back on main channel and confluence from WPT 242, proceeding up.	EF	No fish
248	55.3362	-132.5025		EF	1 CT
249	55.3361	-132.5021	Two CT and one RT between here and WPT 248.	EF	2 CT, 1 RT
250	55.3361	-132.5015	Culvert removed here.	EF	No fish
251	55.3361	-132.5006	Falls on rearing-only stream, 3 ft. in height, this is a barrier. Grade also starting to noticeably increase, approximately 12%.	EF	No fish
252	55.3366	-132.5044	Starting survey, this is below logging road.	EF	No fish

Table 1.–Continued.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
253	55.3365	-132.5051	Two CT between WPT 252 and here.	EF	2 CT
254	55.3369	-132.5055	DV only up to this WPT.	EF	DV
255	55.3370	-132.5066		EF	1 CT
256	55.3371	-132.5065		EF	1 DV, 1 CT
257	55.3368	-132.5067		EF	2 CT
258	55.3365	-132.5075	Creek goes from old growth forest into grassy meadow, this then turns into a series of beaver ponds/bog. Ending survey here due to time constraints, will continue at a different time.	EF	No fish
316	55.3443	-132.5102	Starting survey. This WPT is located at the confluence of this tributary and where it joins with Dog Salmon Creek. Proceeding up trib. system and will complete survey at WPT 258, where we ended on 6/14/16.	VI	CO
317	55.3438	-132.5102		VI	CO
318	55.3436	-132.5097	Beaver dam.		
319	55.3434	-132.5092		EF	CO
320	55.3435	-132.5084	Main channel opens into meadow with numerous dead trees, was probably at one time a flooded beaver pond. What is believed to be first trib. (northern most) is on RR, proceeding up. Flow in this trib. minimal.	EF	No fish
321	55.3439	-132.5081	Trib ends at small slope where it drains a skunk cabbage patch, no water left in "channel". End survey.	EF	No fish
322	55.3432	-132.5081	Back on main channel.		
323	55.3432	-132.5079	Trib on RR, proceeding up.	EF	No fish
324	55.3433	-132.5073	Trib enters woods here, two fish shocked and not caught, unable to ID.	EF	-
325	55.3434	-132.5069		EF	1 CO
326	55.3435	-132.5056	Trib goes underground, unable to find continuing channel. End survey.	-	-
327	55.3430	-132.5079	Back on main channel.	VI	2 CO
328	55.3427	-132.5077		EF	2 CO

Table 1.–Continued.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
329	55.3426	-132.5077	Creek appears to split, but these two channels meet back together at the base of a beaver dam complex.	EF	No fish
330	55.3422	-132.5069	Another set of beaver ponds and dams.	-	-
331	55.3418	-132.5059	Outer edge of beaver pond complex. Have found possible trib on RR, proceeding up.	EF	No fish
332	55.3417	-132.5055	Behind beaver dam on trib, water appears to flow from ground water source.	EF	No fish
333	55.3416	-132.5052	One CT caught down below this WPT. Water flows over slanted moss/grass, no defined channel, possible end for anadromous fish.	EF	1 CT
334	55.3417	-132.5045	Sharp gradient change on rearing-only stream. 15-16% for greater than 100 ft. This is a barrier, end survey.	EF	No fish
335	55.3413	-132.5065	Back on main channel. Inlet to beaver ponds from WPT 329. Creek goes into woods, where there is a noticable grade	EF	2 DV
336	55.3407	-132.5061	Grade increases to 10% for 100 ft. Trib on RR, proceeding up.	EF	No fish
337	55.3404	-132.5060	Trib. disappears into soil in a recently cut forest. Slight grade change here as well, end survey.	-	-
338	55.3405	-132.5064	Back on main channel.	EF	No fish
339	55.3403	-132.5063	Trib on RR, proceeding up.	EF	No fish
340	55.3402	-132.5060		EF	1 CT
341	55.3397	-132.5054	Beaver pond between here and WPT 340.	EF	1 CT
342	55.3394	-132.5050	Grade increase to 9% for 73 ft. and continues to quickly climb up slope for several hundred more feet. This is most likely a barrier. End survey of trib.	EF	No fish

Table 1.–Continued.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
343	55.3401	-132.5070	Back on main channel.	EF	No fish
344	55.3396	-132.5083	Main channel goes through forested section. Grade increases, and creek runs over large angular cobble.	EF	No fish
345	55.3391	-132.5084	Beaver dam. Outlet of beaver pond complex that connects to WPT 258, which is the inlet of this beaver pond area.	EF	No fish
346	55.3382	-132.5085	Beaver dam. This WPT represents the eastern edge of beaver pond/bog/meadow. Approximately 600 ft south is WPT 258. no other tribs. observed, end survey.	EF	No fish





Figure 1.—Juvenile coho salmon captured at waypoint 328.



Figure 2.—Main channel through meadow at waypoint 320.



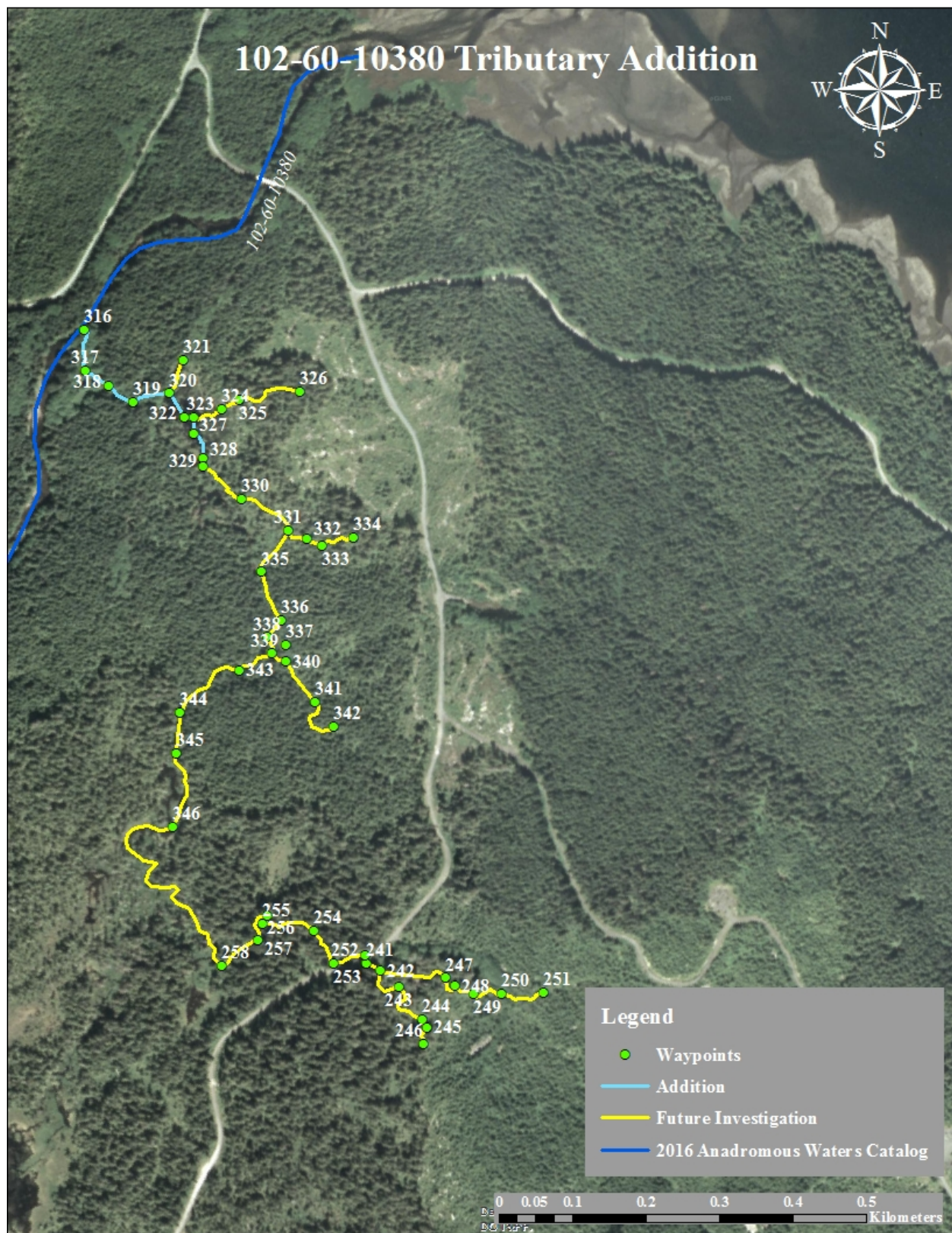


Figure 3.–102-60-10380-2005 (tributary) addition map.

**102-60-10720****CORRECTION****Water body name:** Twelvemile Creek**Survey date:** 6/6/2016**Watershed:** Kasaan Bay-Frontal Clarence Strait**Species & Lifestage:** CHp, COp, Pp, SHp**MTR:** C075S083E **Quad:** Craig B-3**Findings:** We surveyed this stream using a backpack electrofisher and a GPS. We found a 15 ft waterfall that is a fish passage barrier at waypoint 136 (Table 1; Figure 1).**Recommendations:** Correct the existing stream course to reflect the verified stream path. Add polygon where waypoints 73, 74, 75, 78, and 79 encompass floodplain/bog area with juvenile coho salmon (Figure 2).**Nomination:** 17-557

Table 1.–102-60-10720 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
69	55.3303	-132.6920	Start of survey of Twelvemile Creek.		
70	55.3281	-132.6939	A falls complex with several different possible routes of fish passage. Total height from base pool to top is approximately 10-12 ft with woody debris at the top.	EF	No Fish
71	55.3252	-132.6943	Braided stream channel.		
72	55.3241	-132.6935	Channel still braided.	EF	No Fish
73	55.3238	-132.6930	CO observed in pool/possible side channel/trib.	VI	CO
74	55.3238	-132.6924	CO seen in possible trib.	VI	CO
75	55.3237	-132.6922	Inlet to beaver pond/polygon area, following up RR trib.	EF	1 DV
76	55.3236	-132.6917	Approximately 20 DV up to this point. This is a trib to the polygon and is unobstructed up to this WPT.	EF	DV
77	55.3234	-132.6910	End of survey at top of 100 ft at 17% grade.		
78	55.3232	-132.6922	Eastern edge of polygon.		
79	55.3231	-132.6929	Edge of polygon, following different trib up.	EF	1 CO
80	55.3226	-132.6920	Tributary forks here, one fish shocked but unable to ID. Marginal habitat, no barrier encountered. End survey.	EF	No Fish

Table 1.–Continued.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
81	55.3230	-132.6931	Back on MC (side channel). WPTS 74, 75, 78,79,80, encompass outer edge of polygon.		
82	55.3179	-132.6928	Rearing only trib with 40 in falls 20 ft up trib. Did not investigate past falls.		
134	55.3161	-132.6933	Start survey of main channel of Twelvemile.	EF	No Fish
135	55.3136	-132.6936	Gradient increases to 6%	EF	No Fish
136	55.3132	-132.6936	Sharp gradient increase that leads to large falls, about 15 ft tall with sharp drop against rock slab. Large pool below, but no resting spots in middle of barrier, end survey.		



Figure 1.–Waterfall at waypoint 136.



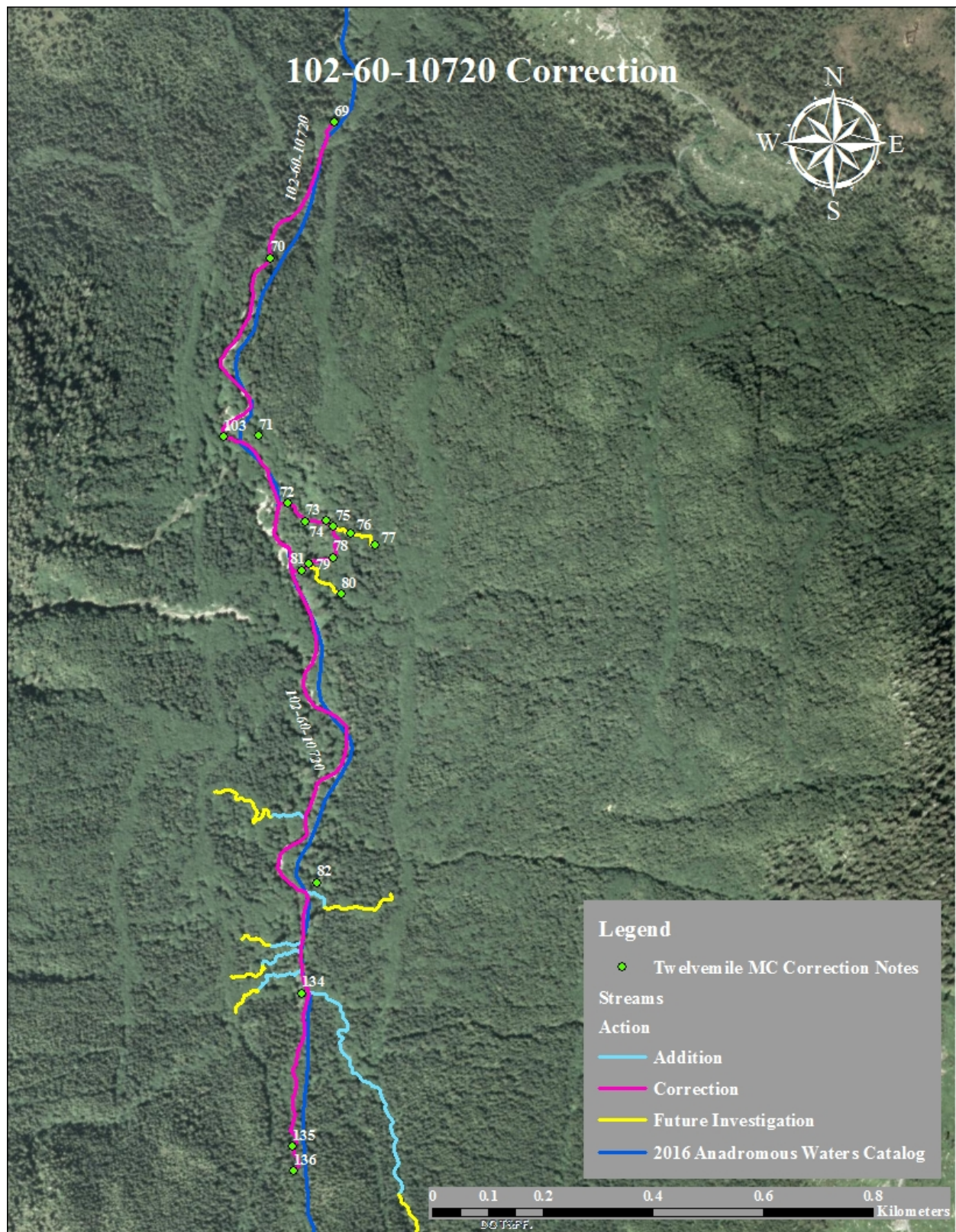


Figure 2.—102-60-10720 correction map.



**102-60-10720-2004****CORRECTION****Water body name:** Cave Creek**Survey date:** 6/4/2016**Watershed:** Kasaan Bay-Frontal Clarence Strait**Species & Lifestage:** CHs, COr, Ps**MTR:** C075S083E **Quad:** Craig B-3

**Findings:** We surveyed this stream using an electrofisher and GPS. The main channel continued to increase in grade (Table 1; Figure 1). We ended the survey at a falls fifteen feet tall, the first in a series of cascading falls (Figure 2).

**Recommendations:** Update this stream's course between waypoints 33-61 to reflect the field verified route (Figure 3).

**Nomination:** 17-554

Table 1.–102-60-10720-2004 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
0	55.3429	-132.7452	Beginning of 102-60-10720-2004-3008 Route Correction.	-	-
33	55.3445	-132.7430	Start of survey.	EF	No fish
34	55.3434	-132.7432	Trib on RR.	EF	No fish
35	55.3432	-132.7429	Above culvert on WPT 33 RR trib. CMP roughly 8 ft., fish passable.	EF	No fish
36	55.3429	-132.7428		EF	1 CO
37	55.3428	-132.7428		EF	1 CT
38	55.3424	-132.7431		EF	2 CO
39	55.3422	-132.7431		EF	1 CO
40	55.3417	-132.7442	Possible CO observed.	EF	1 CT
41	55.3415	-132.7445	Low gradient muskeg.	EF	1 CO
42	55.3408	-132.7451	Gradient increase.	EF	1 CT
43	55.3406	-132.7448	Gradient increase, 2% with stepfalls.	EF	No fish
44	55.3399	-132.7437	Trib enters RL, proceeding up RL, which has 9% grade.	EF	No fish
45	55.3395	-132.7441	11% grade, stream averages 1-2 ft. wide. Fish barrier.	EF	No fish
46	55.3400	-132.7436	Back on main channel.	EF	No fish
47	55.3398	-132.7432	Main channel has 13% grade.		No fish
48	55.3394	-132.7431		HN	1 CT
49	55.3386	-132.7433	End of survey. Stream forks into two, each fork 1 ft. wide with increasing gradient. Fish barrier.	EF	No fish
50	55.3429	-132.7458	Main channel of Cave Creek, below bridge trib on RL, 50 ft. at 16% grade. Start survey and proceeding up trib.	EF	No fish
51	55.3426	-132.7467	One unidentified fish. Trib decreases to 5% grade, and is adjacent to road.	EF	No fish

Table 1.–Continued.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
52	55.3421	-132.7476	12% grade over 55 ft.	EF	1 DV
53	55.3420	-132.7479	5% grade turns into 13%, then further increases. Barrier 225 ft. upstream of here. End of survey.	EF	1 DV
54	55.3425	-132.7457	Main channel of Cave Creek above bridge, start survey.	EF	No fish
55	55.3422	-132.7459		EF	1 DV
56	55.3410	-132.7464	Trib on RR with 24-inch falls, swift water through whole stretch of main channel. Fish barrier.	EF	No fish
57	55.3410	-132.7468	Side channel.	EF	3 DV
58	55.3408	-132.7467	Approx. 200 ft of 8% grade w/ at least a 4 ft. falls w/ rocks and logs, no jump pool.	EF	No fish
59	55.3408	-132.7462	Proceeding up RR trib described on WPT 56.	EF	1 DV
60	55.3404	-132.7465	End of survey on RR trib of Cave Creek above bridge, incised muskeg creek approx 1-2 ft. wide.	EF	No fish
61	55.3404	-132.7472	WPT on cliff above barrier falls at least 15 ft tall, long complex series of cascading falls.	EF	No fish
62	55.3420	-132.7482	Gradient barrier. 13% grade over 225 ft.	-	-



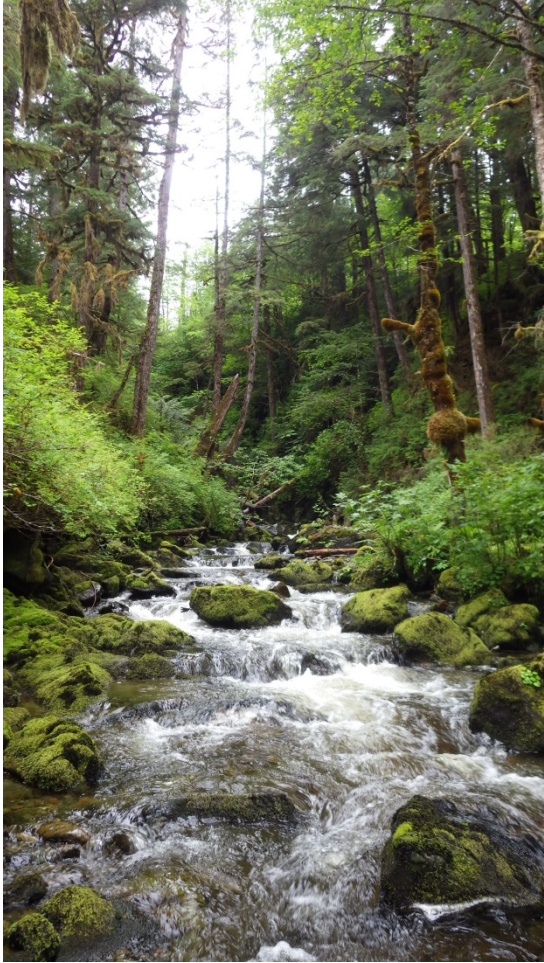


Figure 1.— Waypoint 58.

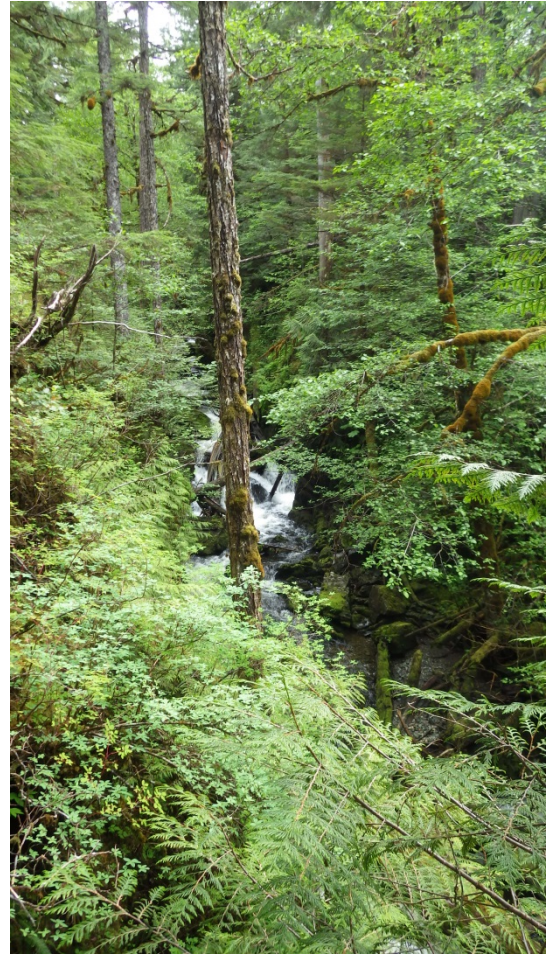


Figure 2.—Barrier falls at waypoint 61.



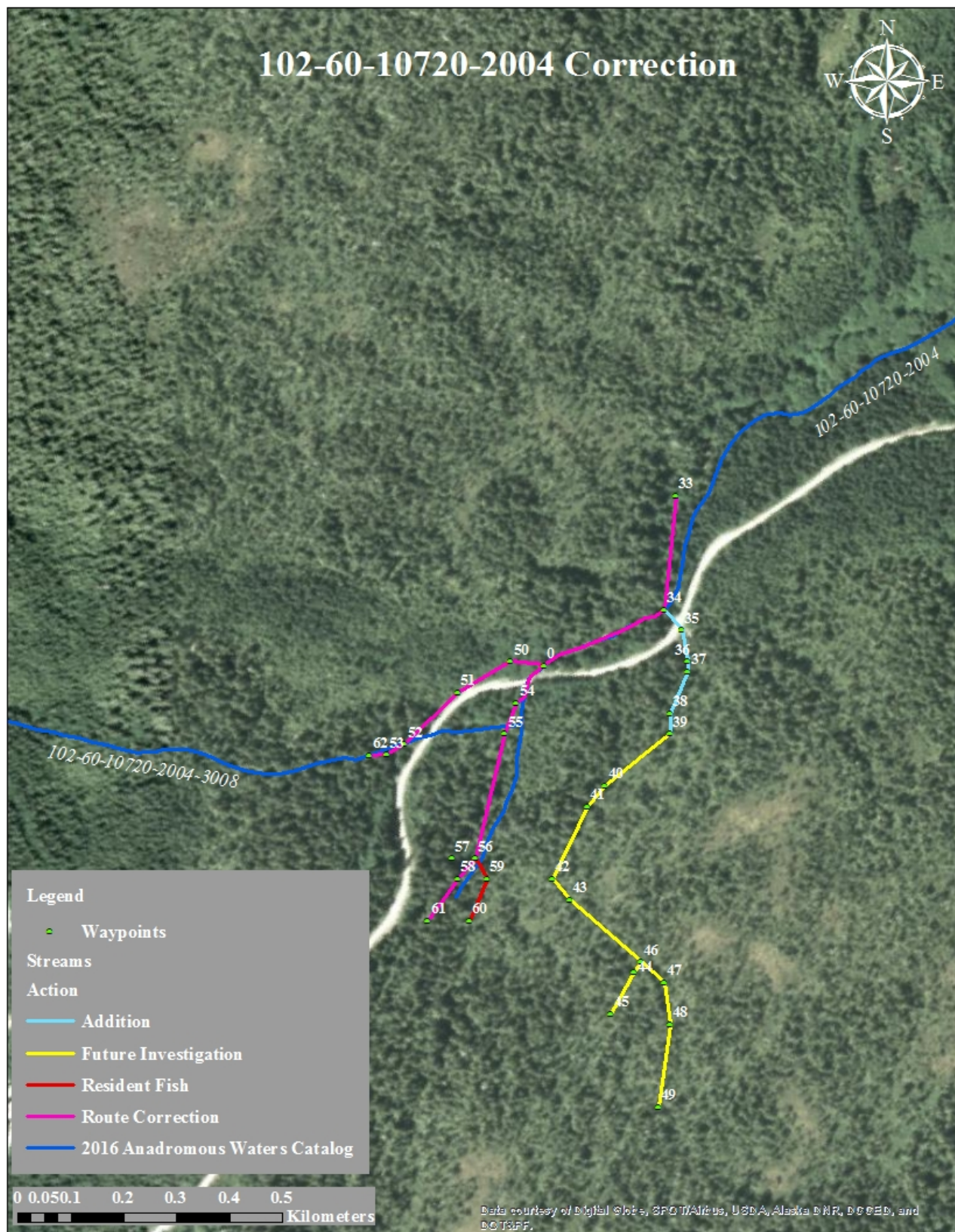


Figure 3.-102-60-10720-2004 correction map.

**102-60-10720-2004-3005****ADDITION****Water body name:****Survey date:** 6/4/2016**Watershed:** Kasaan Bay-Frontal Clarence Strait**Species & Lifestage:** CO or**MTR:** C075S083E **Quad:** Craig B-3

**Findings:** We surveyed this stream using an electrofisher and GPS and found coho salmon and cutthroat trout (Table 1; Figure 1). We ended the survey where the stream forked into two 1 ft. wide branches of increasingly steep grade (Figure 2).

**Recommendations:** Add this tributary of Stream No. 102-60-10720-2004 to the Anadromous Waters Catalog between waypoints 34 and 39 (Figure 3). Investigate stream between waypoints 39 and 49 at a future date.

**Nomination:** 17-555

Table 1.—102-60-10720-2004-3005 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
0	55.3429	-132.7452	Beginning of 102-60-10720-2004-3008 Route Correction.	-	-
33	55.3445	-132.7430	Start of survey.	EF	No fish
34	55.3434	-132.7432	Trib on RR.	EF	No fish
35	55.3432	-132.7429	Above culvert on WPT 33 RR trib. CMP roughly 8 ft., fish passable.	EF	No fish
36	55.3429	-132.7428		EF	1 CO
37	55.3428	-132.7428		EF	1 CT
38	55.3424	-132.7431		EF	2 CO
39	55.3422	-132.7431		EF	1 CO
40	55.3417	-132.7442	Possible CO observed.	EF	1 CT
41	55.3415	-132.7445	Low gradient muskeg.	EF	1 CO
42	55.3408	-132.7451	Gradient increase.	EF	1 CT
43	55.3406	-132.7448	Gradient increase, 2% with stepfalls.	EF	No fish
44	55.3399	-132.7437	Trib enters RL, proceeding up RL, which has 9% grade.	EF	No fish
45	55.3395	-132.7441	11% grade, stream averages 1-2 ft. wide. Fish barrier.	EF	No fish
46	55.3400	-132.7436	Back on main channel.	EF	No fish
47	55.3398	-132.7432	Main channel has 13% grade.		No fish
48	55.3394	-132.7431		HN	1 CT
49	55.3386	-132.7433	End of survey. Stream forks into two, each fork 1 ft. wide with increasing gradient. Fish barrier.	EF	No fish
50	55.3429	-132.7458	Main channel of Cave Creek, below bridge trib on RL, 50 ft. at 16% grade. Start survey and proceeding up trib.	EF	No fish

Table 1.–Continued.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
51	55.3426	-132.7467	One unidentified fish. Trib decreases to 5% grade, and is adjacent to road.	EF	No fish
52	55.3421	-132.7476	12% grade over 55 ft.	EF	1 DV
53	55.3420	-132.7479	5% grade turns into 13%, then further increases. Barrier 225 ft. upstream of here. End of survey.	EF	1 DV
54	55.3425	-132.7457	Main channel of Cave Creek above bridge, start survey.	EF	No fish
55	55.3422	-132.7459		EF	1 DV
56	55.3410	-132.7464	Trib on RR with 24-inch falls, swift water through whole stretch of main channel. Fish barrier.	EF	No fish
57	55.3410	-132.7468	Side channel.	EF	3 DV
58	55.3408	-132.7467	Approx. 200 ft of 8% grade w/ at least a 4 ft. falls w/ rocks and logs, no jump pool.	EF	No fish
59	55.3408	-132.7462	Proceeding up RR trib described on WPT 56.	EF	1 DV
60	55.3404	-132.7465	End of survey on RR trib of Cave Creek above bridge, incised muskeg creek approx 1-2 ft. wide.	EF	No fish
61	55.3404	-132.7472	WPT on cliff above barrier falls at least 15 ft tall, long complex series of cascading falls.	EF	No fish
62	55.3420	-132.7482	Gradient barrier. 13% grade over 225 ft.	-	-





Figure 1.—Coho captured at waypoint 39.



Figure 2.—Stream splits into 2 narrow forks before gradient increases at waypoint 49.



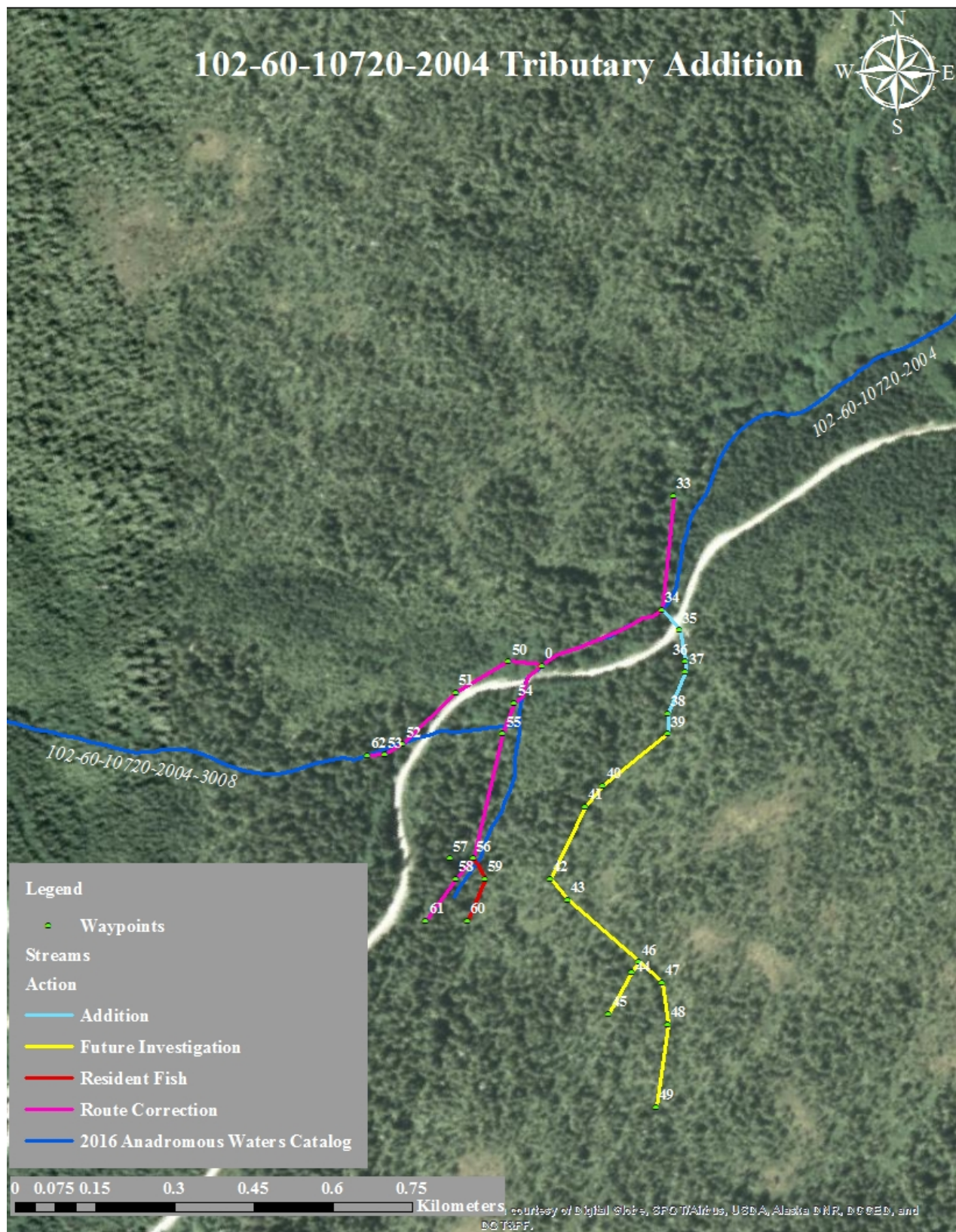


Figure 3.–102-60-10720-2004-3005 (tributary) addition map.

**102-60-10720-2004-3008****CORRECTION****Water body name:****Survey date:** 6/4/2016**Watershed:** Kasaan Bay-Frontal Clarence Strait**Species & Lifestage:** Ps**MTR:** C075S083E **Quad:** Craig B-3**Findings:** We surveyed this stream using an electrofisher and GPS and found Dolly Varden char.**Recommendations:** Update this stream's course between waypoints 0 and 62 to reflect the field verified route; remove the portion of the stream beyond the gradient barrier at waypoint 62 from the Anadromous Waters Catalog (Table 1; Figure 1).**Nomination:** 17-556

Table 1.—102-60-10720-3008 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
0	55.3429	-132.7452	Beginning of 102-60-10720-2004-3008 Route Correction.	-	-
33	55.3445	-132.7430	Start of survey.	EF	No fish
34	55.3434	-132.7432	Trib on RR.	EF	No fish
35	55.3432	-132.7429	Above culvert on WPT 33 RR trib. CMP roughly 8 ft., fish passable.	EF	No fish
36	55.3429	-132.7428		EF	1 CO
37	55.3428	-132.7428		EF	1 CT
38	55.3424	-132.7431		EF	2 CO
39	55.3422	-132.7431		EF	1 CO
40	55.3417	-132.7442	Possible CO observed.	EF	1 CT
41	55.3415	-132.7445	Low gradient muskeg.	EF	1 CO
42	55.3408	-132.7451	Gradient increase.	EF	1 CT
43	55.3406	-132.7448	Gradient increase, 2% with stepfalls.	EF	No fish
44	55.3399	-132.7437	Trib enters RL, proceeding up RL, which has 9% grade.	EF	No fish
45	55.3395	-132.7441	11% grade, stream averages 1-2 ft. wide. Fish barrier.	EF	No fish
46	55.3400	-132.7436	Back on main channel.	EF	No fish
47	55.3398	-132.7432	Main channel has 13% grade.		No fish
48	55.3394	-132.7431		HN	1 CT
49	55.3386	-132.7433	End of survey. Stream forks into two, each fork 1 ft. wide with increasing gradient. Fish barrier.	EF	No fish
50	55.3429	-132.7458	Main channel of Cave Creek, below bridge trib on RL, 50 ft. at 16% grade. Start survey and proceeding up trib.	EF	No fish

Table 1.–Continued.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
51	55.3426	-132.7467	One unidentified fish. Trib decreases to 5% grade, and is adjacent to road.	EF	No fish
52	55.3421	-132.7476	12% grade over 55 ft.	EF	1 DV
53	55.3420	-132.7479	5% grade turns into 13%, then further increases. Barrier 225 ft. upstream of here. End of survey.	EF	1 DV
54	55.3425	-132.7457	Main channel of Cave Creek above bridge, start survey.	EF	No fish
55	55.3422	-132.7459		EF	1 DV
56	55.3410	-132.7464	Trib on RR with 24-inch falls, swift water through whole stretch of main channel. Fish barrier.	EF	No fish
57	55.3410	-132.7468	Side channel.	EF	3 DV
58	55.3408	-132.7467	Approx. 200 ft of 8% grade w/ at least a 4 ft. falls w/ rocks and logs, no jump pool.	EF	No fish
59	55.3408	-132.7462	Proceeding up RR trib described on WPT 56.	EF	1 DV
60	55.3404	-132.7465	End of survey on RR trib of Cave Creek above bridge, incised muskeg creek approx 1-2 ft. wide.	EF	No fish
61	55.3404	-132.7472	WPT on cliff above barrier falls at least 15 ft tall, long complex series of cascading falls.	EF	No fish
62	55.3420	-132.7482	Gradient barrier. 13% grade over 225 ft.	-	-



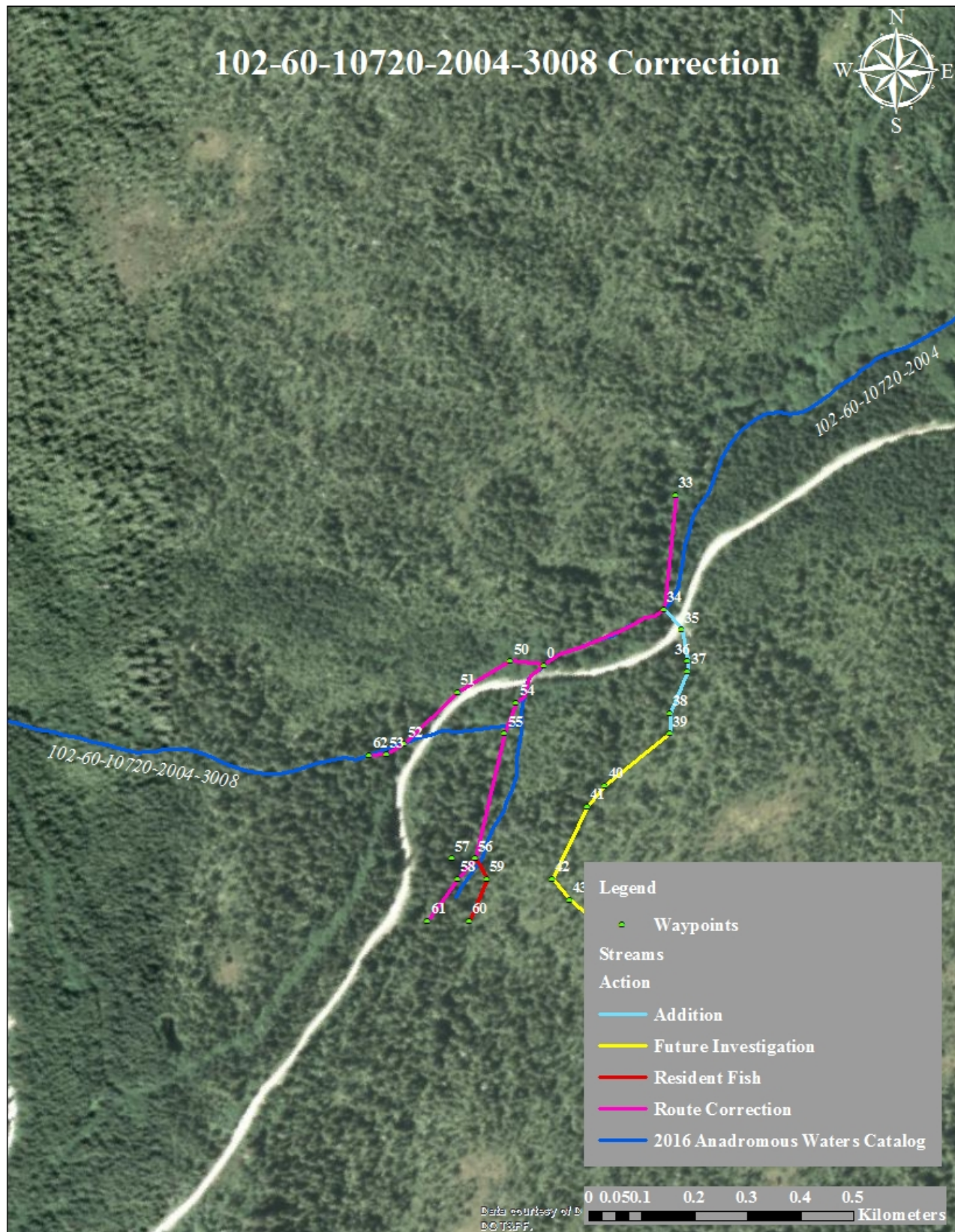


Figure 1.–102-60-10720-2004-3008 correction map.



**102-60-10720-2030****ADDITION****Water body name:****Survey date:** 6/5/2016**Watershed:** Kasaan Bay-Frontal Clarence Strait**Species & Lifestage:** CO**MTR:** C075S083E **Quad:** Craig B-3**Findings:** We surveyed this stream using a backpack electrofisher and a GPS. We encountered juvenile coho salmon on the lower portions of this tributary (Table 1; Figure 1).**Recommendations:** Add uncataloged tributary of 102-60-10720 to the Anadromous Waters Catalog up to waypoint 107 (Figure 2).**Nomination:** 17-558

Table 1.–102-60-10720-2030 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
104	55.3190	-132.6931	Start survey, RL trib, proceeding up.		
105	55.3190	-132.6936		VI	1 CO
106	55.3190	-132.6938		EF	1 RT
107	55.3190	-132.6941		EF	6 CO
108	55.3191	-132.6943	3 ft falls over logs, might be more than rearing water.		
109	55.3189	-132.6946		EF	1 DV
110	55.3192	-132.6946		EF	1 DV
111	55.3193	-132.6949		EF	1 DV
112	55.3193	-132.6951		EF	1 DV
113	55.3194	-132.6951		EF	2 DV
114	55.3194	-132.6957	8% grade , no barriers to this point, end survey.		



Figure 1.–Juvenile coho salmon captured at waypoint 107.



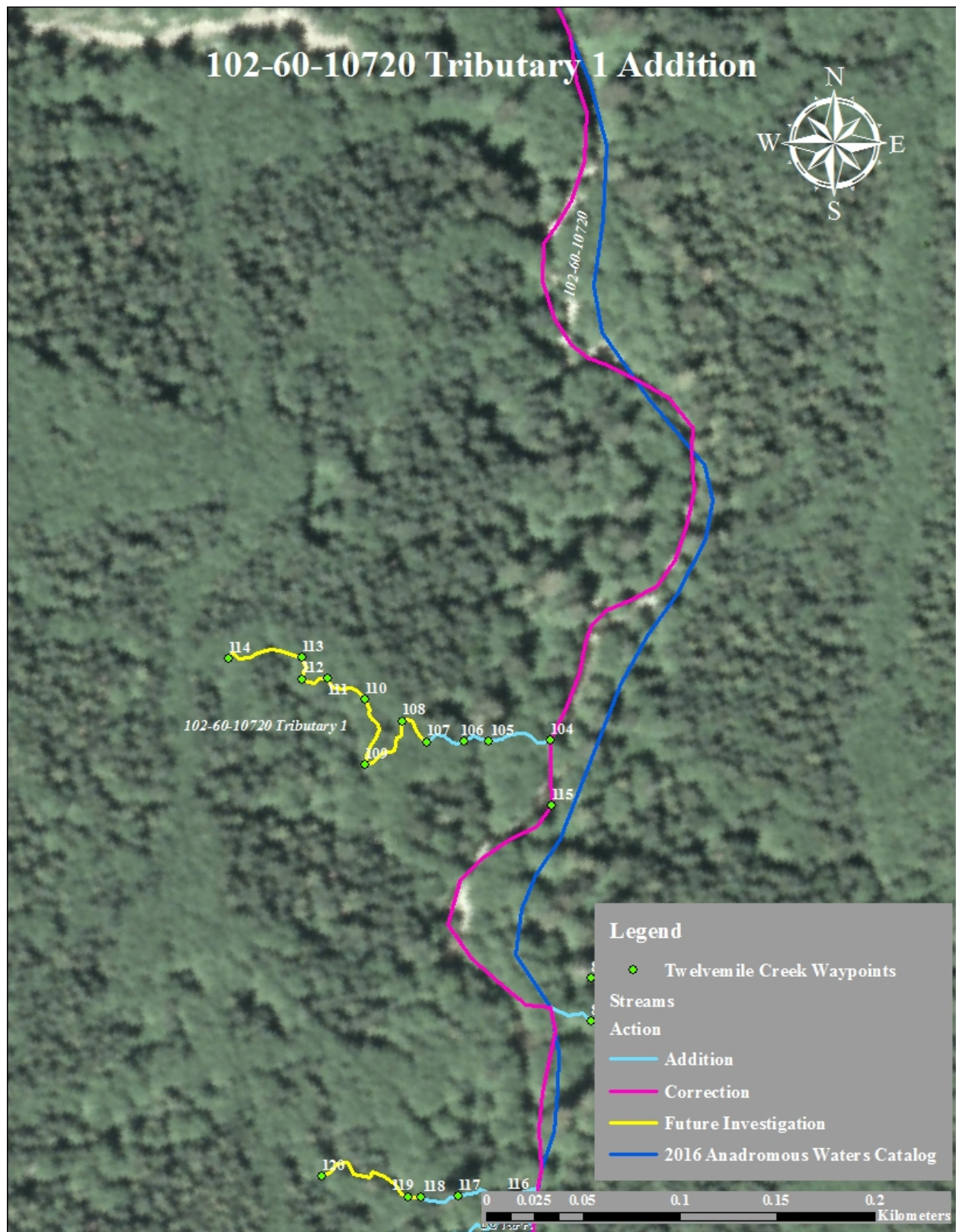


Figure 2.—102-60-10720-2030 (Tributary 1) addition map.



## 102-60-10720-2033

## ADDITION

**Water body name:**

**Survey date:** 6/6/2016

**Watershed:** Kasaan Bay-Frontal Clarence Strait

**Species & Lifestage:** CO

**MTR:** C075S083E **Quad:** Craig B-3

**Findings:** We surveyed this stream using a backpack electrofisher and a GPS. We found coho salmon and Dolly Varden char in this uncataloged tributary (Table 1; Figure 1).

**Recommendations:** Add new tributary of stream 102-60-10720 to the anadromous waters catalog (Figure 2).

**Nomination:** 17-559

Table 1.–102-60-10720-2033 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
83	55.3177	-132.6928	On different RR trib.	EF	6 CO
84	55.3176	-132.6926	Proceeding up trib.	EF	2 CO, 1 DV
85	55.3175	-132.6926		EF	2 CO, 1 DV
86	55.3175	-132.6917	Shocking approximately every 20 ft. 6% grade channel with DV up high, CO at confluence.	EF	8-10 DV
87	55.3177	-132.6907	Trib is ceasing to be less than 8% (actual grade of 14%). End survey.		



Figure 1.–Grade of 102-60-10720-2033 starts to increase at waypoint 86.

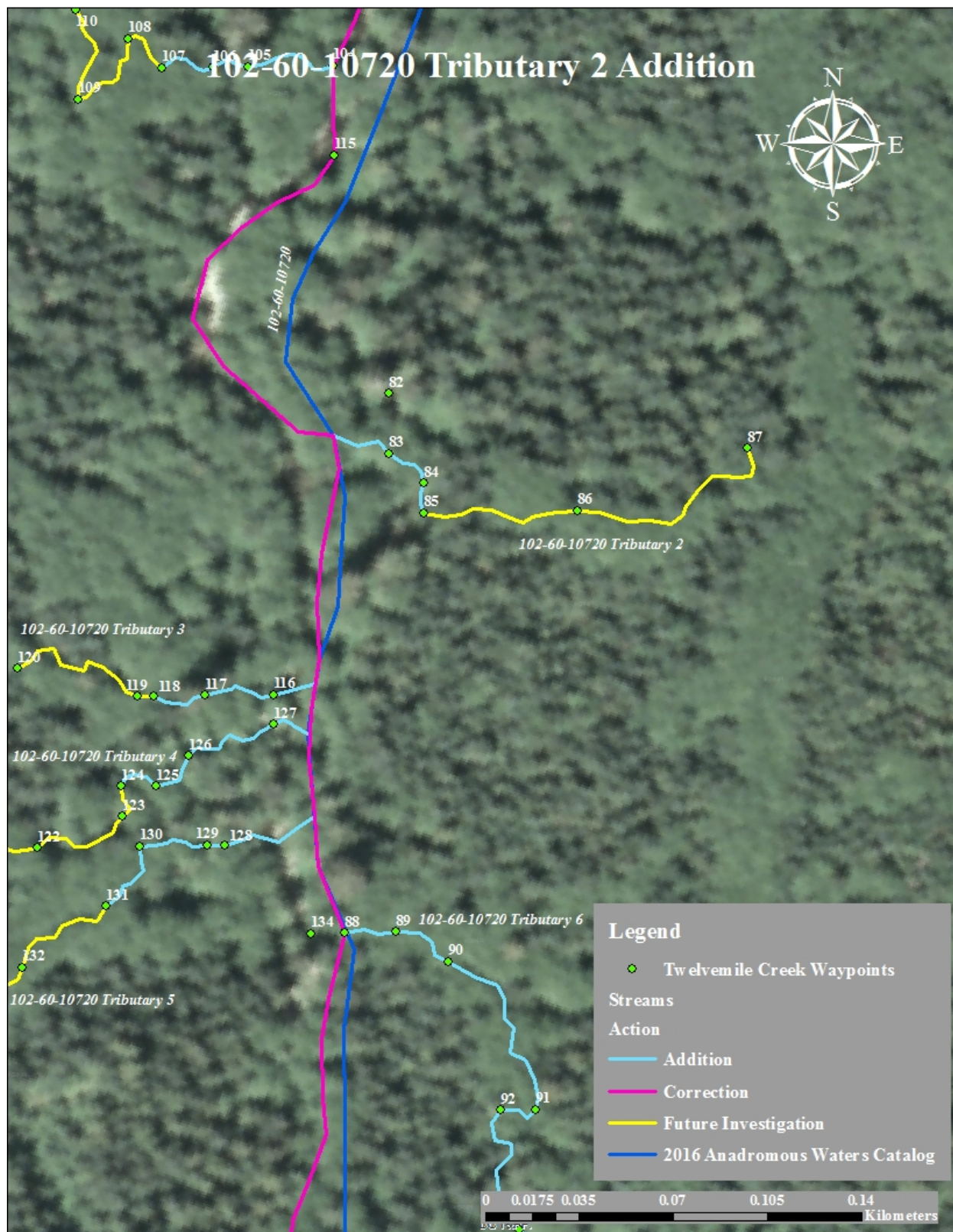


Figure 2.—102-60-10720-2033 (Tributary 2) addition map.



**102-60-10720-2040****ADDITION****Water body name:****Survey date:** 6/6/2016**Watershed:** Kasaan Bay-Frontal Clarence Strait**Species & Lifestage:** CO**MTR:** C075S084E **Quad:** Craig B-3**Findings:** We surveyed this stream using a backpack electrofisher and a GPS. We found coho salmon, and where the tributary emerges from the bed of an old logging road (Table 1; Figure 1).**Recommendations:** Add uncataloged tributary of stream 102-60-10720 to the Anadromous Waters Catalog (Figure 2).**Nomination:** 17-560

Table 1.–102-60-10720-2040 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
116	55.3169	-132.6935	Trib on RL proceeding up, one CO observed.	VI	1 CO
117	55.3169	-132.6939		EF	3 CO
118	55.3169	-132.6942	Four CO, several seen between WPT 117 and 118.	EF/VI	4 CO
119	55.3169	-132.6943		EF	1 CO
120	55.3170	-132.6950	Channel emerges from road bed, not able to follow anymore. No barriers to this point, end survey.		



Figure 1.–Tributary emerges from bed of old logging road at waypoint 120.

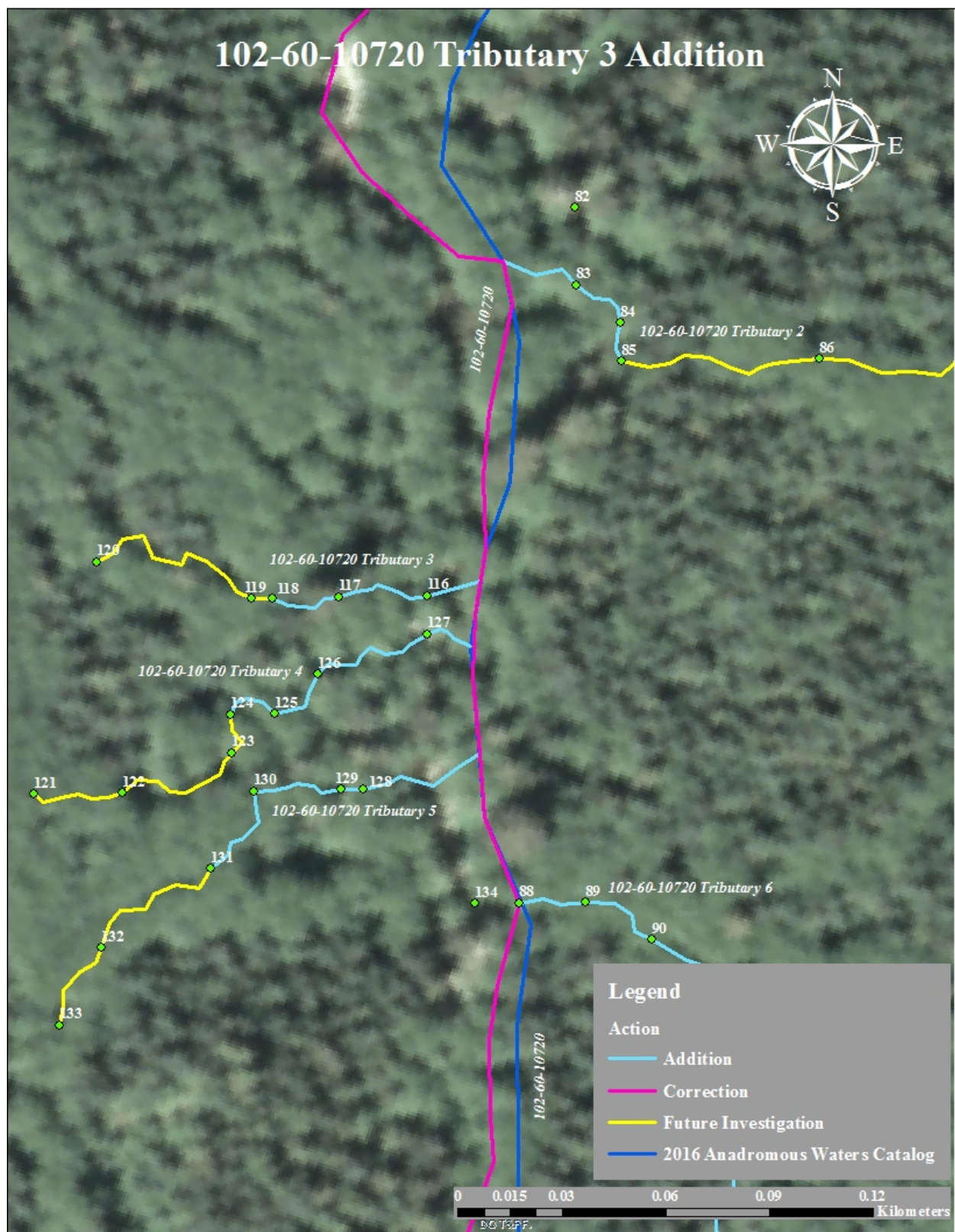


Figure 2.—102-60-10720-2040 (Tributary 3) addition map.



**102-60-10720-2044****ADDITION****Water body name:****Survey date:** 6/6/2016**Watershed:** Kasaan Bay-Frontal Clarence Strait**Species & Lifestage:** CO or**MTR:** C075S084E **Quad:** Craig B-3**Findings:** We surveyed this stream using a backpack electrofisher and a GPS. We found juvenile coho salmon and a fish passage barrier on this uncataloged tributary (Table 1; Figure 1).**Recommendations:** Add uncataloged tributary of stream 102-60-10720 to the Anadromous Waters Catalog (Figure 2).**Nomination:** 17-561

Table 1.—102-60-10720-2044 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
121	55.3164	-132.6953	New trib. Barrier at this point, 4 ft tall and fairly incised into loose talus. Proceeding down trib.		
122	55.3164	-132.6949	No fish.		
123	55.3165	-132.6944	Channel runs dry at low water flows.		
124	55.3166	-132.6944	25 CO observed.	EF/VI	25 CO
125	55.3166	-132.6942	Two CO observed, one DV as well.	EF/VI	2 CO, 1 DV
126	55.3167	-132.6940		EF	2 CO
127	55.3168	-132.6935	Confluence of trib with main channel, end survey and proceeding up main channel.		



Figure 1.—Fish passage barrier at waypoint 121.



Figure 2.—102-60-10720-2044 (Tributary 4) addition map.



**102-60-10720-2048****ADDITION****Water body name:****Survey date:** 6/6/2016**Watershed:** Kasaan Bay-Frontal Clarence Strait**Species & Lifestage:** CO or**MTR:** C075S084E **Quad:** Craig B-3**Findings:** We surveyed this stream using a backpack electrofisher and a GPS. We found juvenile coho salmon in this uncataloged tributary (Table 1; Figure 1).**Recommendations:** Add uncataloged tributary of stream 102-60-10720 to the Anadromous Waters Catalog (Figure 2).**Nomination:** 17-562

Table 1.—102-60-10720-2048 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
128	55.3164	-132.6938	RL trib, proceeding up.		
129	55.3164	-132.6939		EF	1 CO
130	55.3164	-132.6943	Two CO observed.	VI	2 CO
131	55.3162	-132.6945		HN	2 CO
132	55.3160	-132.6950	Grade at 6%.		
133	55.3158	-132.6952	Grade increases to more than 8% for more than 200 ft. End survey. Heading back to main channel.		



Figure 1.—Juvenile coho salmon captured at waypoint 129.

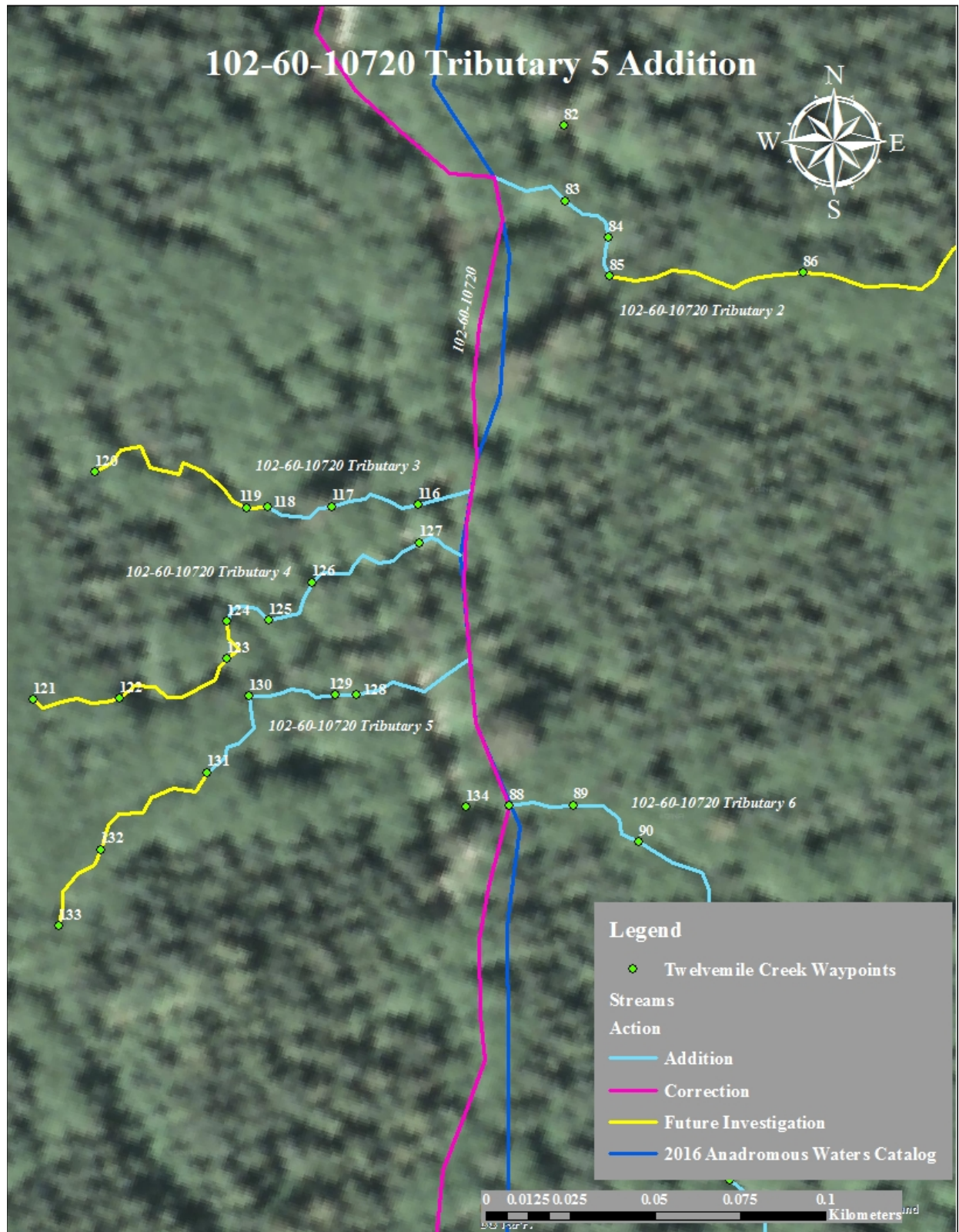


Figure 2.—102-60-10720-2048 (tributary 5) addition map.



**102-60-10720-2051****ADDITION****Water body name:****Survey date:** 6/6/2016**Watershed:** Kasaan Bay-Frontal Clarence Strait**Species & Lifestage:** COr**MTR:** C076S084E **Quad:** Craig B-3

**Findings:** We surveyed this stream using a backpack electrofisher and a GPS. This tributary started with a low grade, and juvenile coho salmon were observed. We did not find a fish passage barrier (Table 1; Figure 1).

**Recommendations:** Add uncataloged tributary of stream 102-60-10720 to the Anadromous Waters Catalog (Figure 2).

**Nomination:** 17-563

Table 1.–102-60-10720-2051 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
88	55.3161	-132.6931	Uppermost(?) RR trib, Start survey.		
89	55.3161	-132.6928		EF	8 CO
90	55.3160	-132.6925		EF	5 CO
91	55.3155	-132.6920		EF	1 CO
92	55.3155	-132.6922		EF	2 CO
93	55.3151	-132.6921		VI	5 CO
94	55.3148	-132.6919		VI	4 CO
95	55.3145	-132.6911		EF	1 CO
96	55.3135	-132.6907	6% grade.		
97	55.3131	-132.6907	One CO caught, two more observed.	EF/VI	3 CO
98	55.3129	-132.6905	RR trib with barrier falls. Two CO observed below falls.	VI	2 CO
99	55.3128	-132.6906	CO in side channel	EF	3 CO
100	55.3125	-132.6903	Logjam with 3 ft falls, not a FRPA barrier.		
101	55.3123	-132.6901	8% grade above logjam/falls.		
102	55.3121	-132.6901	No longer 8% or less grade. End of survey.		

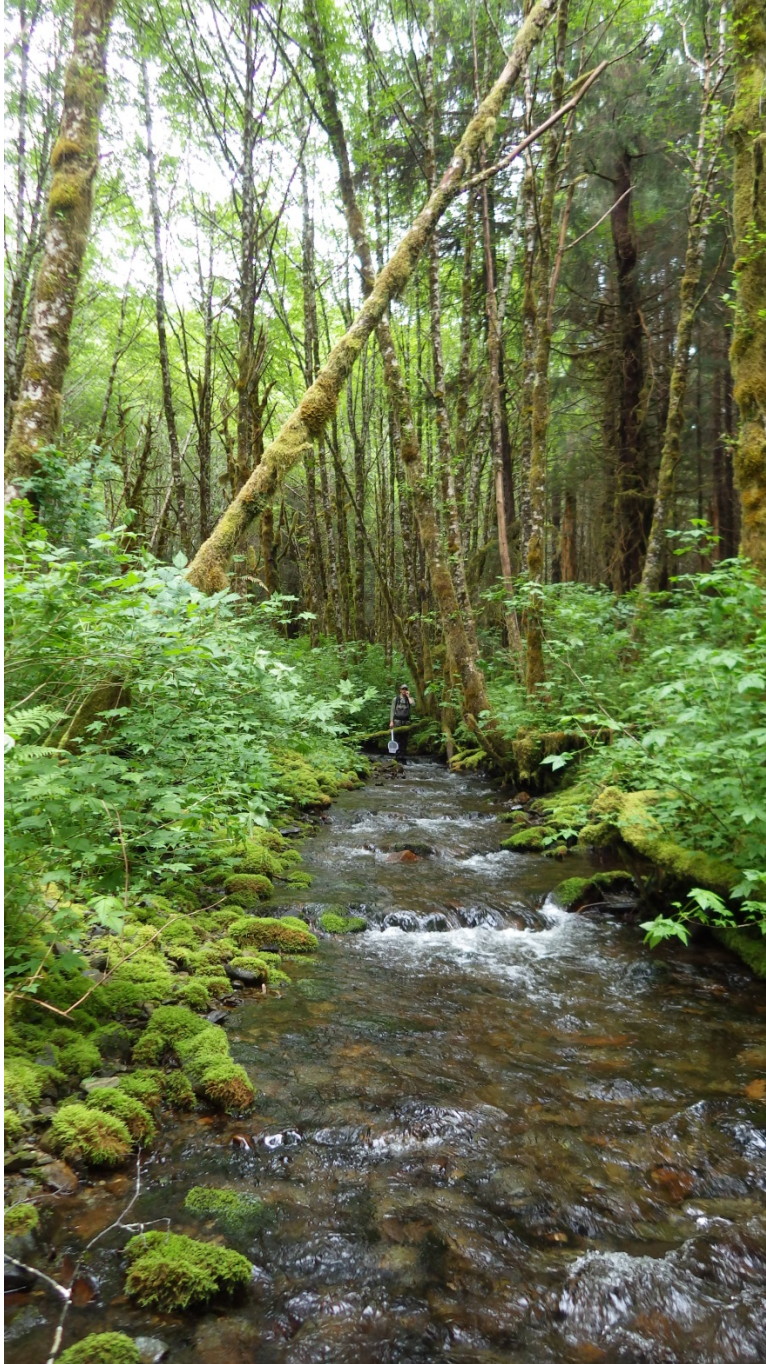


Figure 1.—Looking upstream at waypoint 89.



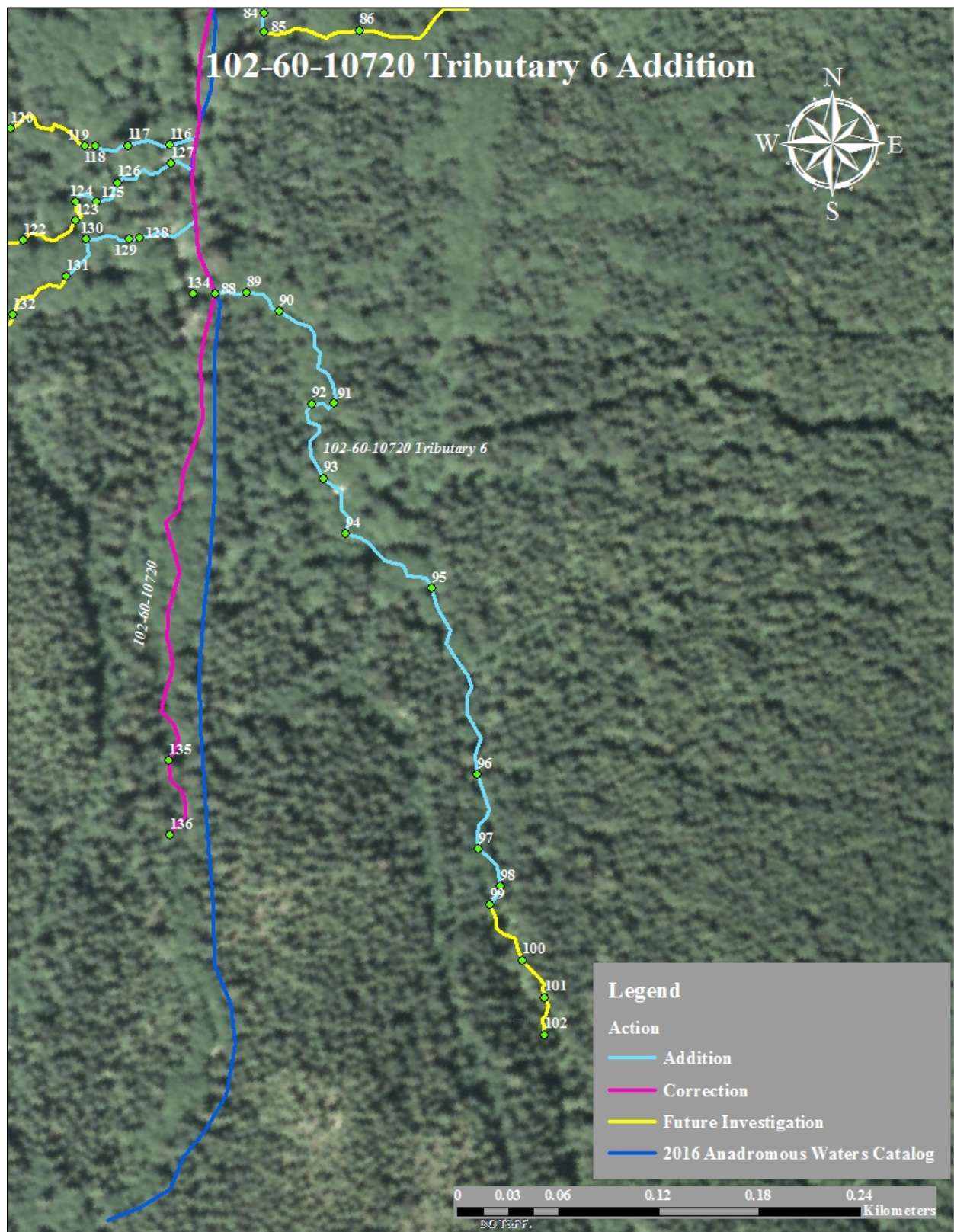


Figure 2.—102-60-10720-2051 (Tributary 6) addition map.





## 102-80-10100

## CORRECTION

**Water body name:**

**Survey date:** 6/15/2015

**Watershed:** Rainbow Lake-Frontal Clarence Strait

**Species & Lifestage:** COp, Pp

**MTR:** C071S086E **Quad:** Craig C-1

**Findings:** Mark Minnillo surveyed this stream and found a 20 foot falls at the location indicated below (Table 1, Figure 1).

**Recommendations:** Update and shorten this stream's course to reflect the field verified route (Figure 1).

**Nomination:** 17-509

Table 1. –102-80-10100 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
1	55.6883	-132.2178	Location of 20 foot falls.		

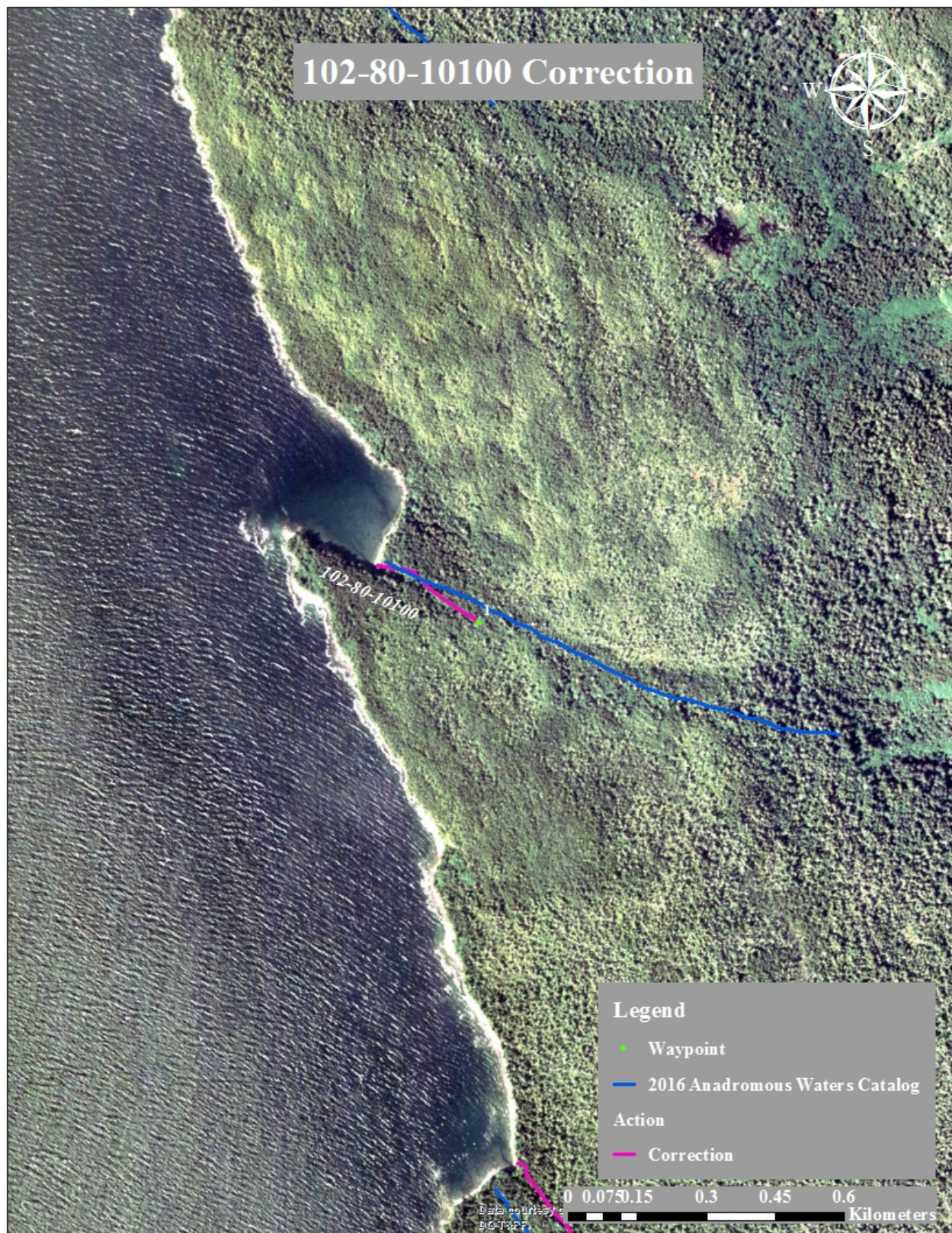


Figure 1.-102-80-10100 correction map.



**102-80-10110**

**CORRECTION**

**Water body name:**

**Survey date:** 6/15/2015

**Watershed:** Rainbow Lake-Frontal Clarence Strait

**Species & Lifestage:** COr, Pp

**MTR:** C071S086E **Quad:** Craig C-1

**Findings:** Mark Minnillo surveyed this stream and captured 2 coho in a minnow trap at the beginning of a 20% gradient barrier at the location indicated below (Table 1, Figures 1, 2).

**Recommendations:** Update this stream's course to reflect the field verified route (Figure 2).

**Nomination:** 17-510

Table 1.—102-80-10110 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
1	55.6745	-132.2116	Start of 20% gradient barrier.	MT	2 CO

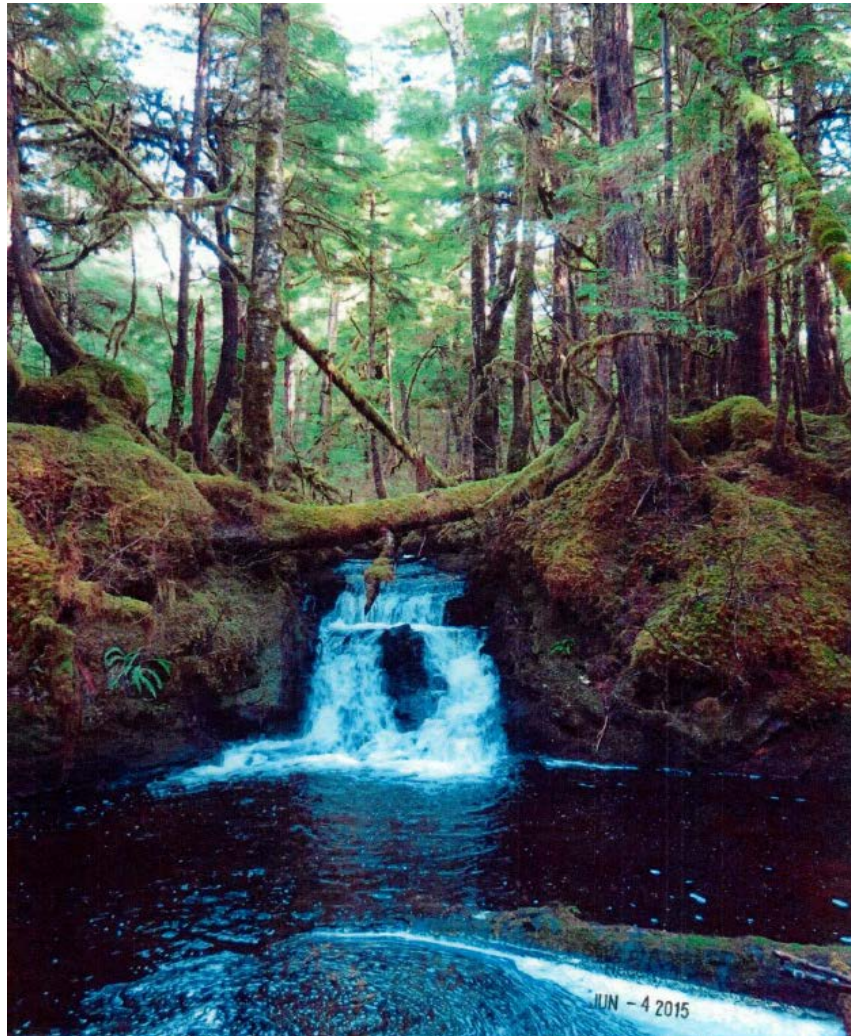


Figure 1.—102-80-10110 falls.





Figure 2.-102-80-10110 correction map.



## 102-80-10120

## CORRECTION

**Water body name:**

**Survey date:** 6/15/2015

**Watershed:** Rainbow Lake-Frontal Clarence Strait

**Species & Lifestage:** COr, Pp

**MTR:** C071S086E **Quad:** Craig C-1

**Findings:** Mark Minnillo surveyed this stream and captured 5 coho in a pool at the base of a 15 foot falls complex at the location indicated below (Table 1, Figures 1, 2).

**Recommendations:** Update this stream's course to reflect the field verified route (Figure 2).

**Nomination:** 17-511

Table 1.—102-80-10120 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
1	55.6664	-132.2030	Location of 15 ft falls complex.	MT	5 CO



Figure 1.—102-80-10120 falls.





Figure 2.-102-80-10120 correction map.

**103-60-10270****CORRECTION****Water body name:** Election Creek**Survey date:** 6/15/2016**Watershed:** San Alberto Bay-Frontal Ursua Channel **Species & Lifestage:** CHp, COp, Pp, DVp**MTR:** C072S081E **Quad:** Craig C-3**Findings:** We surveyed this stream using a backpack electrofisher and a GPS. We found juvenile coho salmon in this uncataloged section of Election Creek (Table 1; Figures 1, 2).**Recommendations:** Extend the cataloged portion of Election Creek up to waypoint 309 and show this branch as the main stem of 103-60-10270 (Figure 3). Correct the Anadromous Waters Catalog to show the eastern branch of 103-60-10270 as a tributary.**Nomination:** 17-530

Table 1.–103-60-10270 correction survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
259	55.7085	-133.0091	Start survey at new logging road bridge.		
260	55.7085	-133.0091	One CO, one DV captured, several more CO observed.	EF/VI	1 DV, 6 CO
261	55.7085	-133.0084		EF	2 CO
262	55.7084	-133.0079		EF	1 DV, 2 CO
263	55.7083	-133.0077		EF	2 CO
264	55.7083	-133.0074	Pool filled with a dozen CO. Small step falls complex 15-30 ft above this point.	VI	12 CO
265	55.7083	-133.0070		EF	2 CO
266	55.7081	-133.0067	Trib on RR, far too steep (greater than 20% at 50 ft). Not proceeding up.		
267	55.7080	-133.0070		VI	4 CO
268	55.7079	-133.0067		EF	1 CO, 1 DV
269	55.7074	-133.0062	Wood/boulder falls. Water spouts out between two boulders. Falls is 20 inches high.		
270	55.7074	-133.0059		EF	2 CO
271	55.7070	-133.0055	Trib on RR, proceeding up. One DV in first pool (20 ft from confluence).	EF	1 DV
272	55.7069	-133.0053		EF	1 DV
273	55.7068	-133.0051	Trib continues to increase in grade. Out of logging parcel, will discontinue survey on trib. May be worth future investigation.		
274	55.7068	-133.0055	Back on main channel.		
275	55.7067	-133.0056		EF	2 CO
276	55.7064	-133.0052		VI	6 CO
277	55.7062	-133.0047		EF	1 CO
278	55.7058	-133.0044		EF	1 CO
279	55.7057	-133.0048	Trib on RR, proceeding up main channel since trib is off logging parcel.	EF	1 CO

Table 1.–Continued.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
280	55.7052	-133.0048	Last trib on RR before SEALASKA property line?		
281	55.7050	-133.0049		VI	2 CO
282	55.7049	-133.0048		EF	1 CO
283	55.7048	-133.0047		VI	3 CO
284	55.7043	-133.0046	Lots of CO between WPTs 284 and 283.		
285	55.7037	-133.0035		EF	1 CO
286	55.7035	-133.0032		EF	2 CO
287	55.7034	-133.0035		EF	2 CO, 1 DV
288	55.7030	-133.0029		VI	CO
289	55.7025	-133.0027	Back on SEALASKA property. Will continue survey tomorrow.		
290	55.7024	-133.0028	Continuing survey, proceeding into SEALASKA property.		
291	55.7022	-133.0029	Recently cut trees that were felled into the creek. Trib on RR. Proceeding up.		
292	55.7020	-133.0023	Very large felled tree into creek.	EF	1 DV
293	55.7018	-133.0020	Probable barrier. Bedrock section with roots covering top. 3.5-4 ft straight falls. Very incised channel below falls.		
294	55.7015	-133.0017	Above here is another 3 ft high, all bedrock falls with grade of 11% for 60-70 ft. End survey.		
295	55.7017	-133.0014	Back on main channel. Trib on RR, doesn't appear to maintain a grade of 8% or less. Proceeded up, but channel gets too steep. End survey.		
296	55.7021	-133.0030	Back on main channel. Proceeding up.		
297	55.7020	-133.0029		EF/VI	2 CO
298	55.7018	-133.0029		EF	CO
299	55.7015	-133.0029		EF	1 CO, 1 DV
300	55.7014	-133.0027	What was once probably a trib on RR. Dried up with no water flow.		
301	55.7009	-133.0026	Two DV up to this WPT from WPT 300. Grade increases, channel composed of large cobble.	EF	2 DV



Table 1.–Continued.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
302	55.7009	-133.0025	Trib on RR, proceeding up.		
303	55.7005	-133.0022	Trib goes to 14% grade for 80 ft, and water narrows to 8-12 inch wide channel that drains an increasing-grade bog, End survey.		
304	55.7008	-133.0027	Back on main channel.	EF	1 CO
305	55.7004	-133.0028	Large logjam/cobble/gravel barrier. 3-4 ft tall, not technically a FRPA barrier.		
306	55.7002	-133.0029		EF	1 CO
307	55.7000	-133.0030		EF	1 CO
308	55.6996	-133.0034	Grade on main channel is notably increasing.		
309	55.6995	-133.0033		EF	2 CO
310	55.6992	-133.0033		EF	1 DV, 1 CO
311	55.6988	-133.0030	Election Creek makes a notable split, RR is the main channel. Proceeding up RR first.		
312	55.6988	-133.0027		EF	1 DV, 1 CT
313	55.6986	-133.0025	Channel sharply increases in grade to 15-20% and continues to climb the hillside. End survey. Heading back down to trib on RL.		
314	55.6988	-133.0029	Very large DV (4-5 inches)	EF	DV
315	55.6983	-133.0026	Trib increases in grade to 14% for 84 ft. Creek channel becomes undefined and seeps from under trees/drains a bog This is a barrier. Emerges from bog 35 ft away where there is a small cobble falls of 2 ft in height. End survey.		



Figure 1.–Pool with coho salmon at waypoint 264.



Figure 2.–Captured coho salmon from waypoint 282.



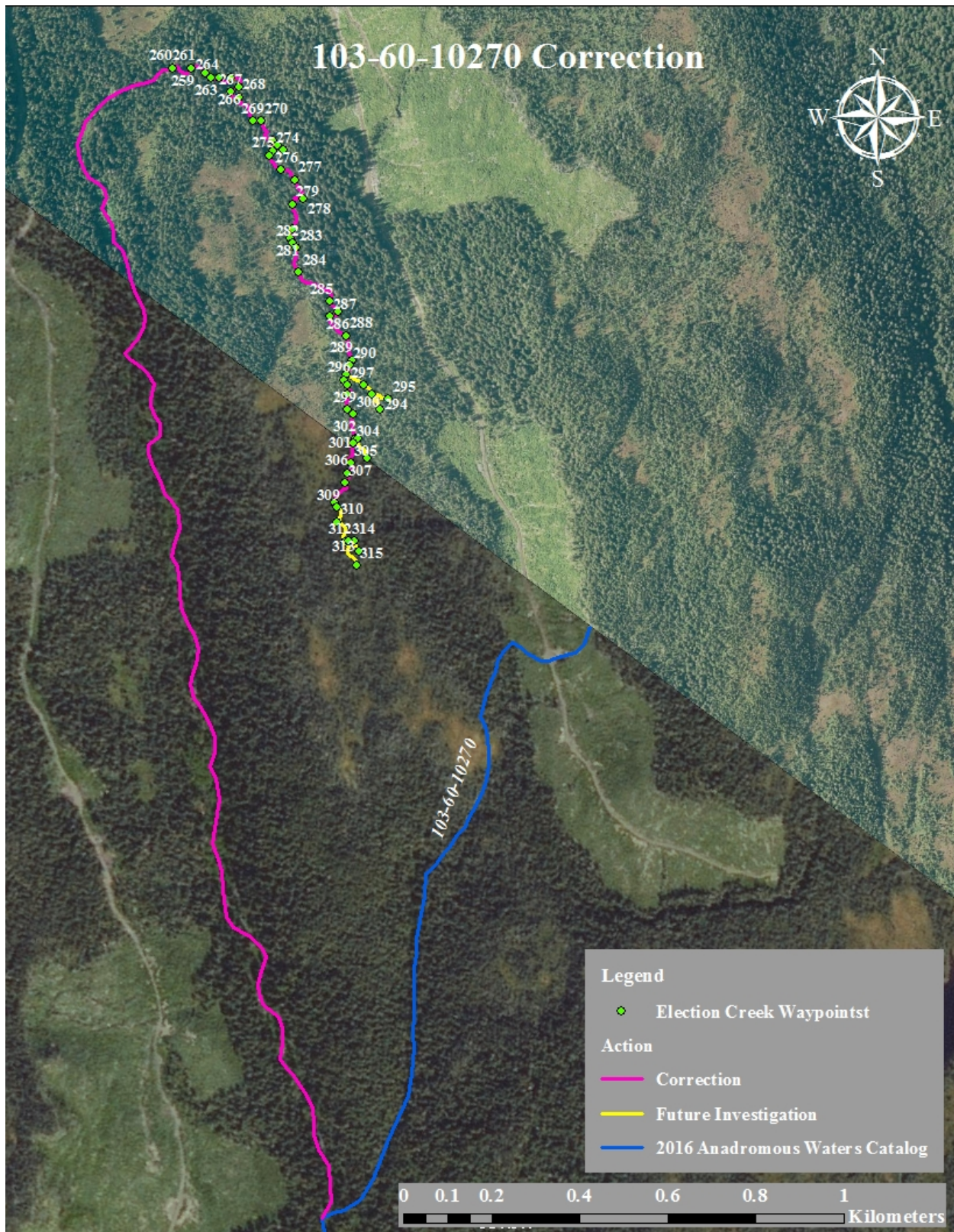


Figure 3.–103-60-10270 correction map.





**103-60-10270-2029****ADDITION****Water body name:****Survey date:** 5/8/2015**Watershed:** San Alberto Bay-Frontal Ursua Channel**Species & Lifestage:** CO**MTR:** C071S081E **Quad:** Craig C-4**Findings:** We surveyed this stream using a GPS and minnow traps and visually observed rearing coho salmon (Table 1, Figure 1).**Recommendations:** Add reach downstream of waypoint 756 for rearing coho salmon (Figure 1).**Nomination:** 16-552

Table 1.–103-60-10270-2029.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
756	55.6765	-133.0011	8 CO visually observed.	VI	8 CO
757	55.6765	-133.0007	No blockage, flow constant, 3 traps in channel for 45 min, no fish.	MT	
758	55.6756	-133.0002	No barrier to this point, water is low due to dry conditions, future investigation of last 300 ft of channel is warranted for AWC. End of fish call for Timber operation moved upstream of this point 300 ft.		



Figure 1.-103-60-10270-2029 (tributary 2) addition map.



## 103-60-10270-2032

## CORRECTION

**Water body name:**

**Survey date:** 6/16/2016

**Watershed:** San Alberto bay-Frontal Ursua Channel **Species & Lifestage:** CHp, COp, Pp, DVp

**MTR:** C072S081E **Quad:** Craig C-3

**Findings:** This stream was surveyed using minnow traps and a GPS. A barrier to fish passage based on gradient was found at waypoint 316 (Table 1).

**Recommendations:** Correct the upper extent of stream 103-60-10270 to the barrier found at waypoint 316 (Figure 1). This branch of Election Creek should be listed as a tributary to the main stem (103-60-10270).

**Nomination:** 17-531

Table 1.–103-60-10270-2032 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
316	55.6860	-133.0022	There is a fish passage barrier at this waypoint. 18% grade that further steepens. Stream is incised, and streambed is composed of large boulders and angular bedrock. Gradient is a barrier to fish passage.	-	-

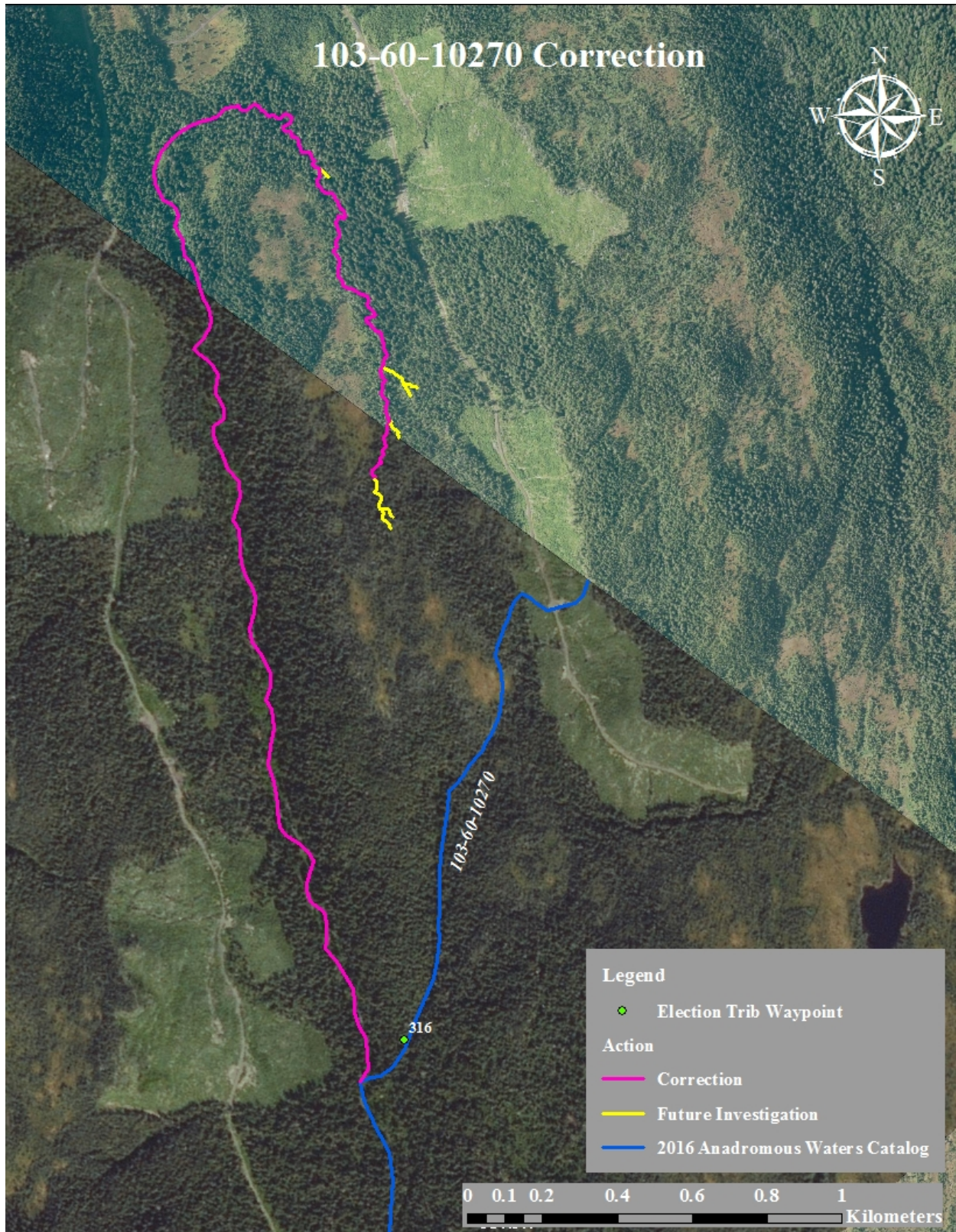


Figure 1.-103-60-10270-2032 correction map.

**103-60-10270-2033****ADDITION****Water body name:****Survey date:** 5/8/2015**Watershed:** San Alberto Bay-Frontal Ursua Channel**Species & Lifestage:** CO**MTR:** C071S081E **Quad:** Craig C-4**Findings:** We surveyed this stream using a GPS and backpack electrofisher and captured rearing coho salmon (Table 1, Figure 1).**Recommendations:** Add reach downstream of waypoint 762 for rearing coho salmon (Figure 1).**Nomination:** 16-551

Table 1.—103-60-10270-2033 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
761	55.6865	-133.0046	1 CO captured.	EF	1 CO
762	55.6864	-133.0057	2 CO captured in wood pool 100 ft downstream from end of timber unit. Crossing proposed here.	EF	2 CO



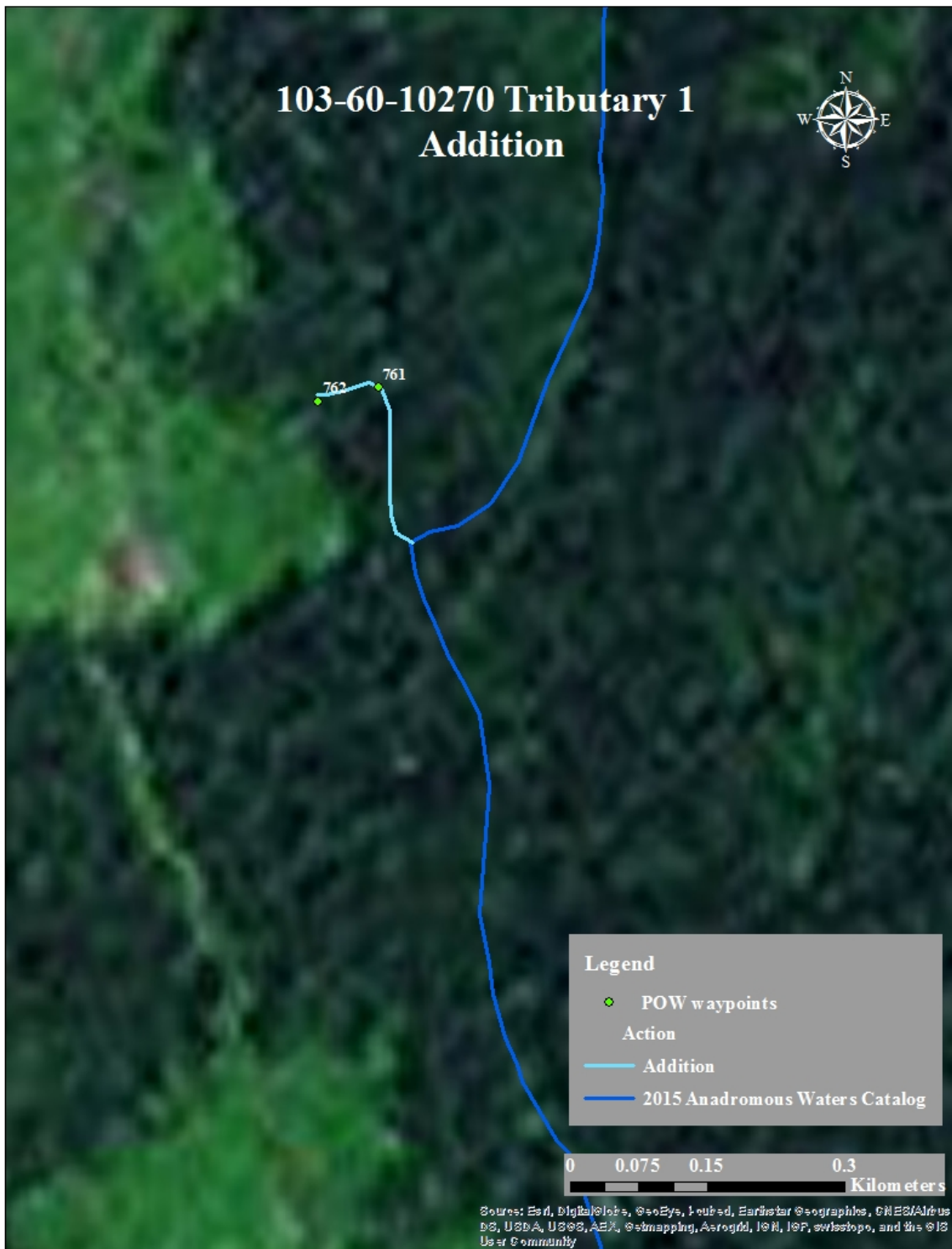


Figure 1.—103-60-10270-2033 (tributary 1 addition) map.

**103-60-10770****CORRECTION****Water body name:****Survey date:** 6/3/2016**Watershed:** Bucareli Bay-Frontal Pacific Ocean**Species & Lifestage:** CHp, COp, Pp, SHp**MTR:** C075S083E **Quad:** Craig B-3**Findings:** We surveyed this stream using an electrofisher and GPS and found coho salmon and Dolly Varden char (Table 1). We found a barrier falls at waypoint 761 (Figure 1).**Recommendations:** Update and shorten this stream's course to reflect the field verified route (Figure 2). Add coho salmon rearing to the Anadromous Waters Catalog for this stream. Remove the portion of the stream beyond the fish barrier at waypoint 761 from the Anadromous Waters Catalog and investigate indicated tributaries at a later date.**Nomination:** 17-553

Table 1.—103-60-10770 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
9	55.3426	-132.7933	Start of Survey, heading upstream.	EF	No fish
10	55.3423	-132.7928	EF to here.	EF	1 DV
11	55.3421	-132.7917	One DV on RL, 2 ft. wide trib on RR, proceeding up trib.	EF	No fish
12	55.3424	-132.7915	18 inch CMP, 8 inch perch at road. Road to main channel is 50 ft., max. depth 4 inches, minimal habitat. No future investigation. CMP drains road ditch.	EF	No fish
13	55.3413	-132.7901	Beaver dam on side channel, only one DV to this point, fished trib to dam, no fish.	EF	1 DV
14	55.3412	-132.7896		EF	1 DV
15	55.3413	-132.7892	4 ft beaver dam with access around sides, and over dam. No future investigation recommended. No barrier found. Survey ended.	EF	No fish
16	55.3414	-132.8031	Bridge and start of survey, moving upstream. Trib enters RR, proceeding RL. Started survey 6/3/16. Very high water.	EF	No fish
17	55.3413	-132.8027	Fork of side channel here. Ended day here. Returned to track mainstem and RR trib.	EF	1 CO
18	55.3411	-132.8025	Trib on RL, proceeding up RL. No barrier at confluence.		No fish
19	55.3408	-132.8028		EF	1 CT, 4 DV
20	55.3402	-132.8028	Increased gradient to 5%.	EF	2 DV
21	55.3395	-132.8036	Obstructed area with falls, not a barrier.	EF	No fish

Table 1.—Continued.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
22	55.3387	-132.8045	Start of 12% gradient for 175 ft., channel steepens to falls section and becomes a barrier, end survey here.	EF	No fish
78	55.3398	-132.8028	3 ft. trib. enters RR.		No fish
79	55.3397	-132.8026	Some flow subsurface, no barrier to this point.	EF	1 DV
24	55.3409	-132.8019	Trib. enters on RL, Shocked first 50 ft., no fish, not likely to enter SEALASKA land.	EF	No fish
25	55.3412	-132.8004		EF	1 CO
26	55.3415	-132.7995	Trib. enters RR, no fish, not likely to enter SEALASKA property.	EF	No fish
27	55.3407	-132.7969	RL trib. with barrier falls. Main channel has 5% gradient, 54 ft. long.	EF	No fish
28	55.3412	-132.7969	RL trib. with barrier falls. Main channel > 12% for 200 ft.	EF	No fish
29	55.3409	-132.8016		EF	1 CO
30	55.3415	-132.8029	Proceeding up RR trib. at bridge.	EF	No fish
31	55.3424	-132.8017	Gradient increased to 7% at 78 ft. End survey, creek crosses road in direction away from property.	EF	No fish
32	55.3425	-132.7942	Top of barrier falls within incised canyon, 8 ft. wide.	EF	No fish
761	55.3426	-132.7949	9 ft. barrier falls, absolute fish barrier. Bottom of falls has a 4 ft. deep jump pool. Falls and pool are very incised. Mostly composed of bedrock.	EF	No fish





Figure 1.–Barrier falls at waypoint 761.



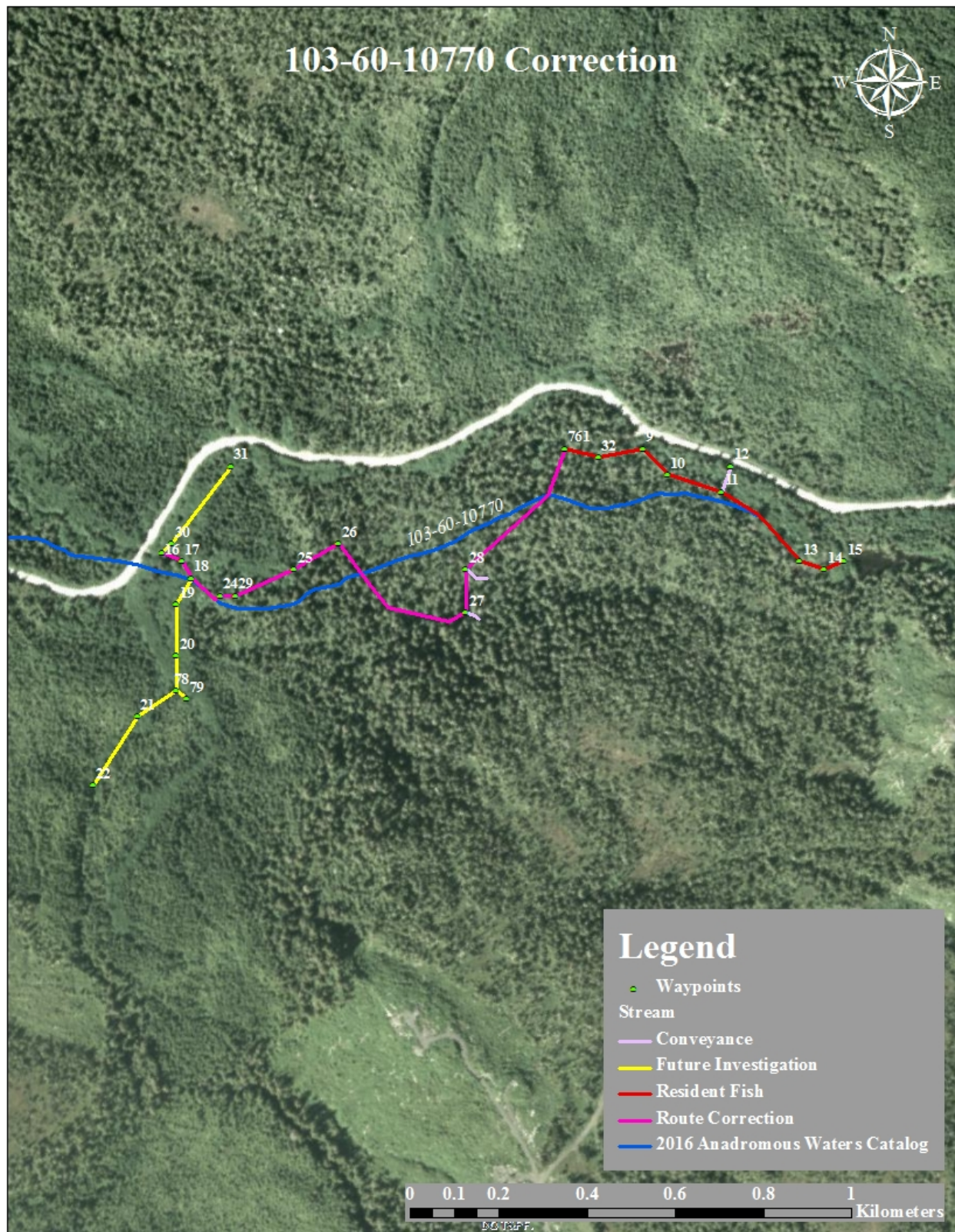


Figure 2.—103-60-10770 correction map.

**103-60-10770-2004****CORRECTION****Water body name:** Beaver Creek**Survey date:** 6/13/2016**Watershed:** Bucareli Bay-Frontal Pacific Ocean**Species & Lifestage:** CHs, COr, Ps**MTR:** C075S083E **Quad:** Craig B-3

**Findings:** We surveyed this stream and found coho salmon and Dolly Varden char (Table 1; Figure 1). We discovered two large falls, the latter of which is a fish barrier (Figures 2, 3). We captured a Dolly Varden above this falls.

**Recommendations:** Update the Anadromous Waters Catalog to reflect the surveyed stream course and remove the portion of Stream No. 103-60-10770-2004 beyond the barrier at waypoint 221 from the Anadromous Waters Catalog (Figure 4).

**Nomination:** 17-552

Table 1.—103-60-10770-2004 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
6	55.3404	-132.8345	Partial falls - possibly swimmable route at higher water.	EF	No fish
7	55.3406	-132.8352		EF	2 CO
8	55.3403	-132.8334	10 ft. falls without jump pool or alternate routes. Did not investigate upstream, canyon tough to climb, consider accessing from alternate route to confirm.	EF	3 DV
220	55.3417	-132.8402	Old logging road down to main channel.	EF	No fish
221	55.3407	-132.8327	Even larger falls than one noted with WPT 8. Falls is 20-25 ft. tall with a 24-30% grade. RR has a small skirt of water that flows shallow against rock, while RL has main flow. Base pool looks approx. 4-5 ft. in depth.	EF	No fish
222	55.3407	-132.8321	One DV above falls.	EF	1 DV
223	55.3405	-132.8316	Shocked potential CO rearing habitat above falls with no results. Falls at WPT 221 is a fish barrier. Gradient further increases beyond this WPT. End survey.	EF	No fish





Figure 1.—Coho captured at waypoint 7.



Figure 2.—Falls at waypoint 8.



Figure 3.—Falls at waypoint 221.



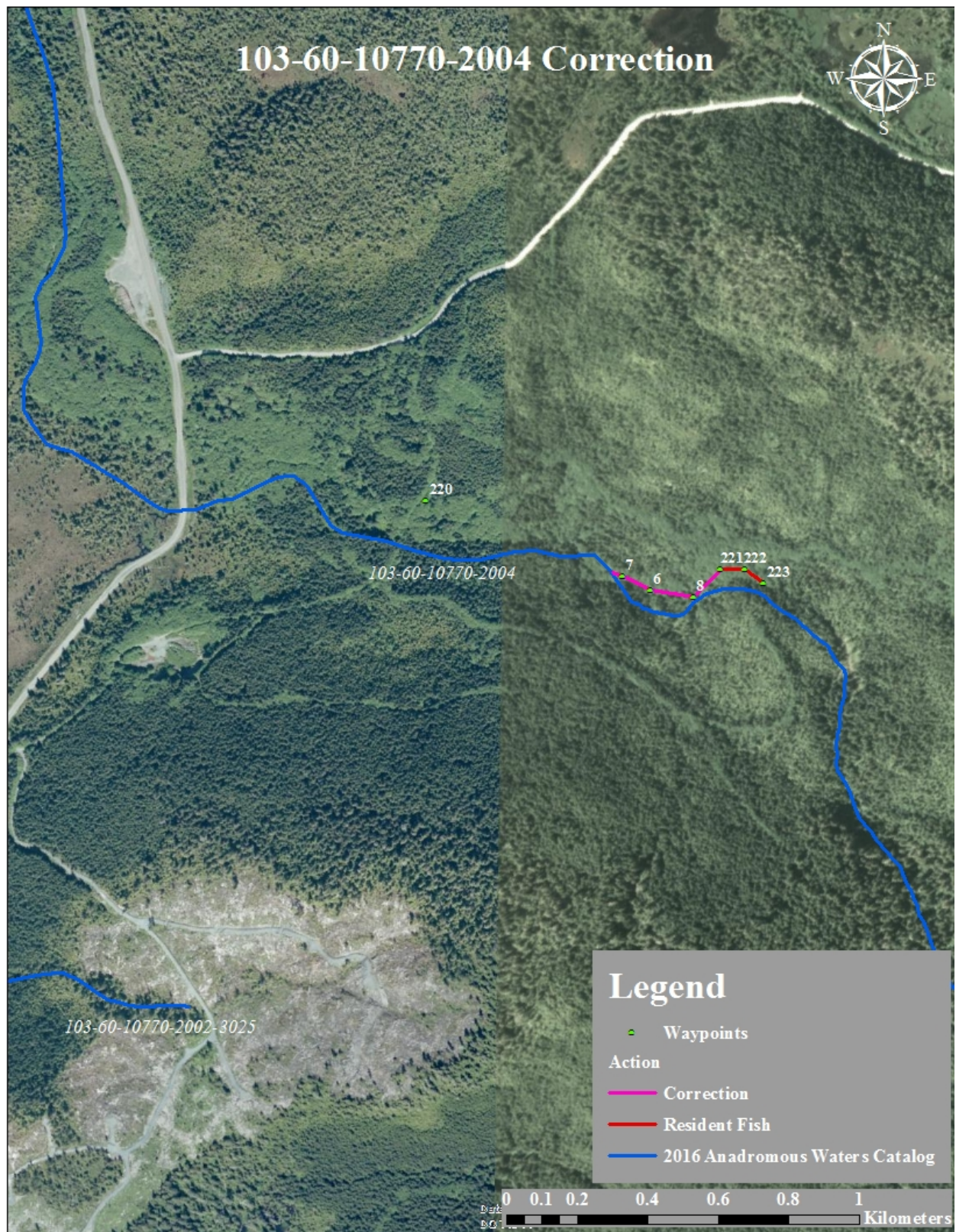


Figure 4.–103-60-10770-2004 correction map.





**103-90-10020****CORRECTION****Water body name:****Survey date:** 6/8/2016**Watershed:** Davidson Inlet-Frontal Iphigenia Bay**Species & Lifestage:** COr, DVr**MTR:** C066S078E **Quad:** Petersburg A-4

**Findings:** We surveyed this stream using a backpack electrofisher and a GPS. We found coho salmon, sculpin, and Dolly Varden char in this stream (Table 1). A fish passage barrier was found at waypoint 183 (Figure 1).

**Recommendations:** Update stream 103-90-10020's course to match verified field route (Figure 2).

**Nomination:** 17-520

Table 1.–103-90-10020 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
168	56.1214	-133.2742	Start survey.	EF	No Fish
169	56.1214	-133.2742	RL trib, proceeding up.	EF	No Fish
170	56.1210	-133.2740	One CO and two SC, one CO down stream of this WPT.	EF	1 CO, 2 SC
171	56.1208	-133.2741	Stream increases to 12% for 90 ft, end survey.	EF	No Fish
172	56.1216	-133.2740	Back on main channel, six CO observed.	VI	CO
173	56.1217	-133.2731	Trib on RL, proceeding up.	EF	No Fish
174	56.1217	-133.2729	One DV, one SC. Grade starts to increase to 14% for 60 ft. Grade further increases and trib splits into two. End survey.	EF	DV, SC
175	56.1217	-133.2731	Back on main channel.	EF	No Fish
176	56.1219	-133.2728	A few DV to this point. Incised step falls with woody debris.	EF	No Fish
177	56.1220	-133.2716	Grade sharply increases to 18% for 40 ft. two DV shocked down below. 3 ft falls with side route. This WPT should be approx. 300-400 ft downstream of plotted point to represent falls.	EF	2 DV
178	56.1222	-133.2711	Stream fluctuates between grade.	EF	No Fish
179	56.1224	-133.2709	Main channel becomes "canyon" like in this section, grade is 11% for 60 ft.	EF	No Fish
180	56.1226	-133.2706	14% for 39 ft.	EF	No Fish

Table 1.–Continued.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
181	56.1227	-133.2704	From WPT 180 to WPT 181: 16% for 80 ft.	EF	No Fish
182	56.1228	-133.2696	13% for 76 ft.	EF	No Fish
183	56.1228	-133.2692	5.5 ft falls with 1 ft pool below. Upstream of this is a cascading falls that goes for 40 ft in a very incised bedrock canyon that is greater than 25% in grade. End survey of main channel.	EF	No Fish
184	56.1221	-133.2723	This is the actual location of falls from WPT 177.	EF	No Fish



Figure 1.—Barrier to fish passage at WPT 183.





Figure 2.—103-90-10020 correction map.





**103-90-10020-2006****ADDITION****Water body name:****Survey date:** 6/8/2016**Watershed:** Davidson Inlet-Frontal Iphigenia Bay**Species & Lifestage:** COr**MTR:** C066S078E **Quad:** Petersburg A-4**Findings:** We surveyed this stream using a backpack electrofisher and a GPS. We encountered coho salmon and sculpin on this survey (Table 1; Figure 1).**Recommendations:** Add tributary of Stream No. 103-90-10020 to the Anadromous Waters Catalog (Figure 2).**Nomination:** 17-519

Table 1.–103-90-10020-2006 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
168	56.1214	-133.2742	Start survey.	EF	No Fish
169	56.1214	-133.2742	RL trib, proceeding up.	EF	No Fish
170	56.1210	-133.2740	One CO and two SC, one CO 10 ft downstream of this WPT.	EF	2 CO, 2 SC
171	56.1208	-133.2741	Stream increases to 12% for 90 ft, end survey.	EF	No Fish



Figure 1.–CO captured at WPT 170.

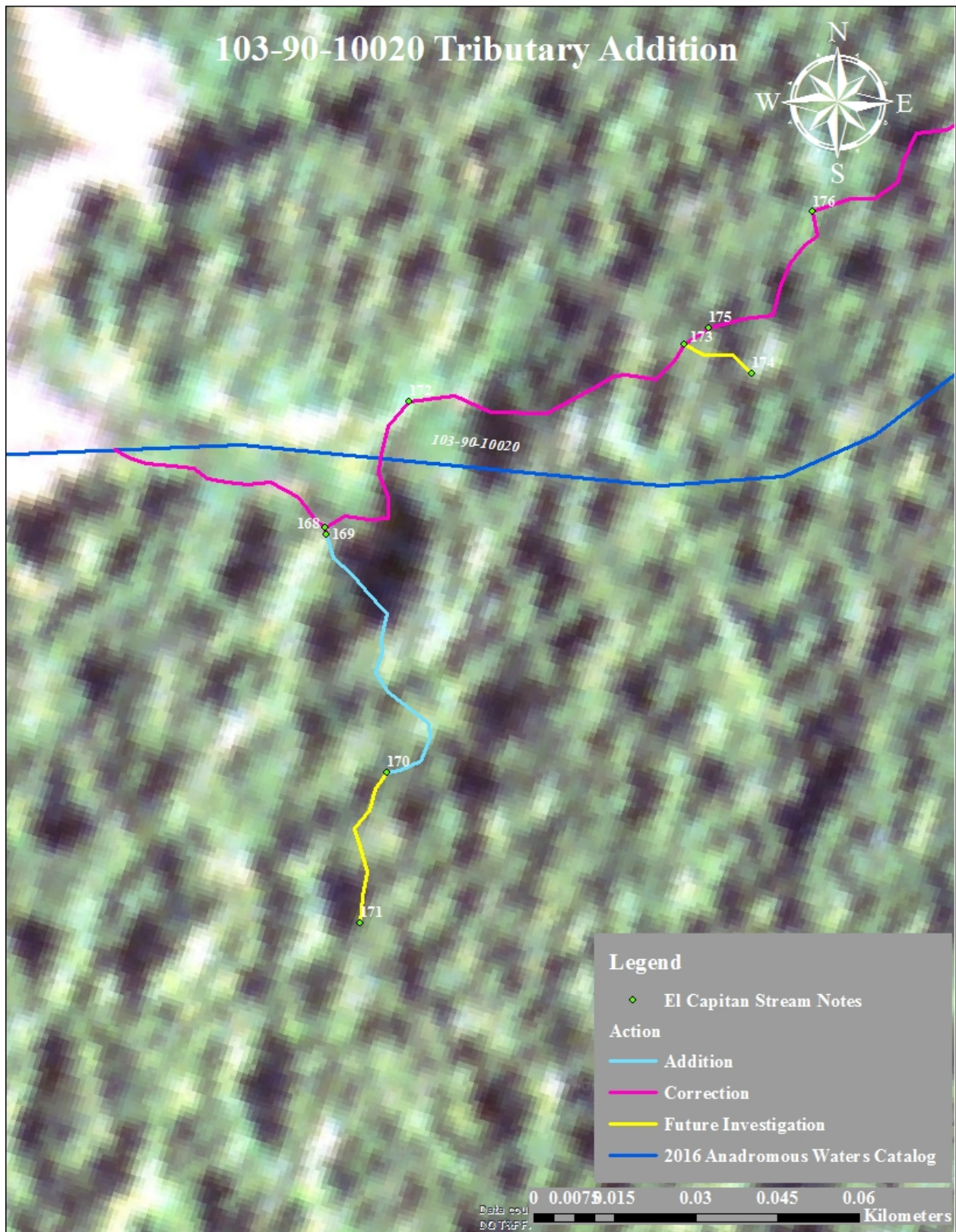


Figure 2.—103-90-10020-2006 (tributary) addition map.



**103-90-10244****ADDITION****Water body name:****Survey date:** 6/23/2016**Watershed:** Tuxekan Passage–Frontal Tonowek Bay**Species & Lifestage:** COr**MTR:** C069S080E **Quad:** Craig D-4

**Findings:** We surveyed this stream using a backpack electrofisher and a GPS. This stream drains off a hillside, travels through a recent clear cut, then enters an old growth forest before draining into the ocean (Table 1; Figures 1, 2).

**Recommendations:** Add uncataloged stream to the Anadromous Waters Catalog (Figure 3).

**Nomination:** 17-544

Table 1.–103-90-10244 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
417	55.8894	-133.1773	Start survey at creek mouth.		
418	55.8894	-133.1774		EF	1 CO
419	55.8894	-133.1775		EF	1 CO
420	55.8894	-133.1778		EF	1 CO
421	55.8894	-133.1783		EF	2 CO
422	55.8894	-133.1785		EF	1 CO
423	55.8896	-133.1787	Creek starts to increase in grade.	EF	1 CO, 1 DV
424	55.8896	-133.1789	Grade at 9% for 39 ft.	EF	2 CO
425	55.8898	-133.1790		EF	2 CO, 1 DV
426	55.8900	-133.1789		EF	1 CO
427	55.8901	-133.1788		EF	1 CO
428	55.8902	-133.1790		EF	1 CO
429	55.8904	-133.1790		EF	2 CO
430	55.8907	-133.1790	This WPT is the boundary where the clear cut starts.	EF	1 CO
431	55.8906	-133.1789		EF	3 CO
432	55.8909	-133.1788		EF	5 CO
433	55.8909	-133.1788		EF	1 CO
434	55.8911	-133.1787	Large gradient change, sharply increasing.		
435	55.8913	-133.1787		EF	5 CO
436	55.8915	-133.1787	Small falls (2 ft) with an increasing grade.		
437	55.8918	-133.1785		EF	1 CO
438	55.8921	-133.1785		EF	2 DV, 1 CT
439	55.8923	-133.1784	Only DV found from WPT 438 and up to this point, grade has become a barrier to anadromous fish. End survey.		



Figure 1.—Three CO captured at WPT 431.



Figure 2.—Uncataloged stream exits clear cut and enters forest at waypoint 430.



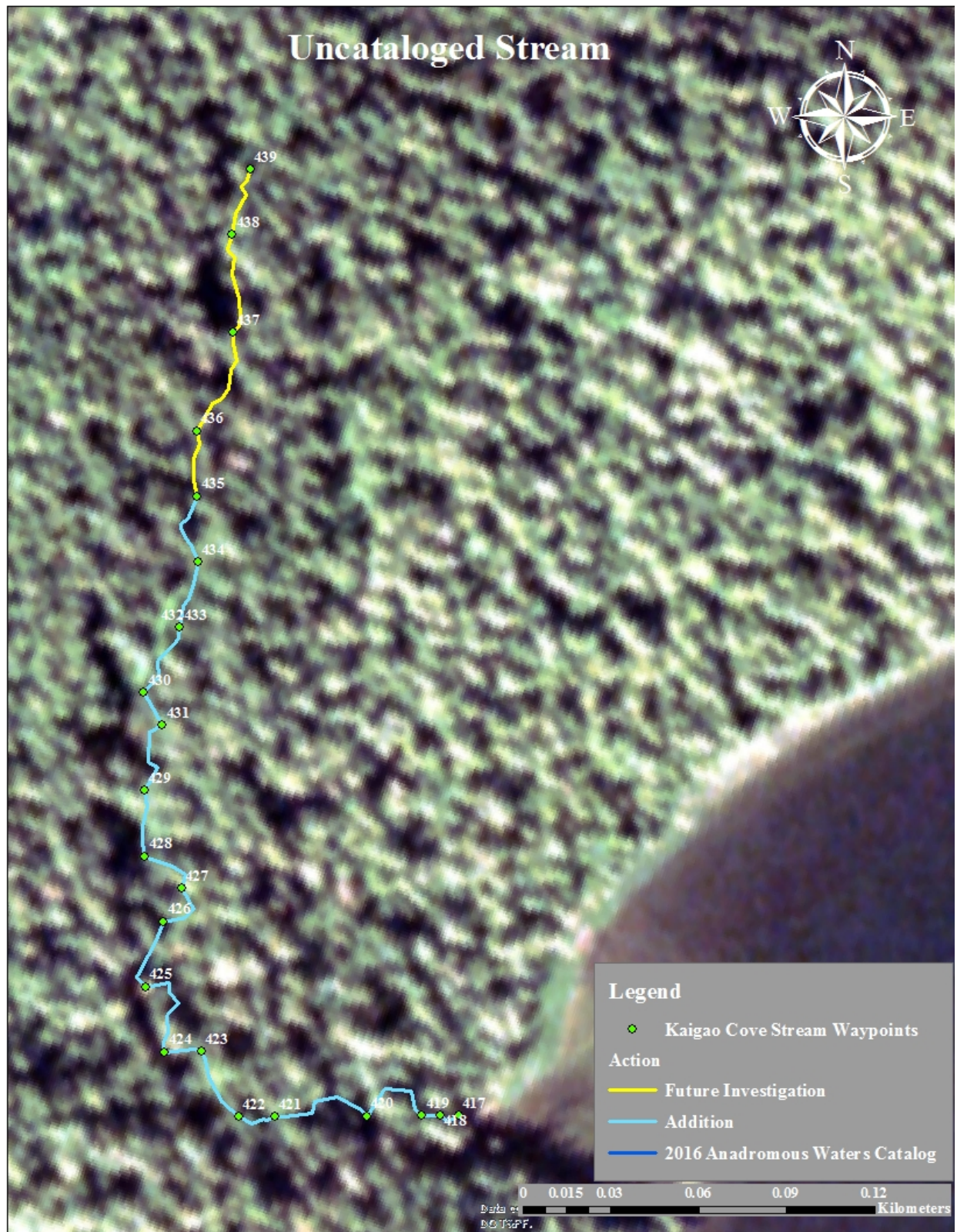


Figure 3.-103-90-10244 (Uncataloged stream) addition map.





**103-90-10269****ADDITION****Water body name:****Survey date:** 6/20/2016**Watershed:** Tuxekan Passage-Frontal Tonowek Bay**Species & Lifestage:** COr**MTR:** C069S080E **Quad:** Craig D-4

**Findings:** We surveyed this stream using a backpack electrofisher and a GPS (Table 1; Figures 1, 2). We found two coho salmon downstream of a clogged culvert that goes under a logging road.

**Recommendations:** Add stream to the anadromous waters catalog (Figure 3).

**Nomination:** 17-545

Table 1.–103-90-10269 addition survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
347	55.8824	-133.1296	Start survey.	EF	1 DV
348	55.8826	-133.1295		EF	1 DV
349	55.8826	-133.1292	One DV between WPT 348 and here. Two more fish shocked, but unable to ID.	EF	1 DV
350	55.8830	-133.1286	One DV, creek goes underground beneath trees/rootwads.	EF	DV
351	55.8832	-133.1288	Trib slightly emerges above ground here, only to go back underground/roots again.		
352	55.8833	-133.1284		EF	1 DV
353	55.8834	-133.1284		EF	2 CO, 1 DV
354	55.8836	-133.1282	CMP, 4.5 ft wide, perched 18 inches high, possible barrier, very blocked with debris.		
355	55.8839	-133.1282	Other side of road, across from possible CMP barrier.		
356	55.8841	-133.1283	Water goes back underground; drains a bog/skunk cabbage area.		
357	55.8844	-133.1283	Trib disappears underground, unable to locate channel, end survey.		



Figure 1.–One of two CO caught at WPT 353.



Figure 2.–Vegetation clogging a corrugated metal pipe at WPT 354.





Figure 3.–103-90-10269 (103-90-10270 tributary) addition map.



**103-90-10910****ADDITION****Water body name:****Survey date:** 8/22/2016**Watershed:** Davidson Inlet-Frontal Iphigenia Bay**Species & Lifestage:** CO**MTR:** C069S079E **Quad:** Craig D-4

**Findings:** We surveyed this stream using a backpack electrofisher and a GPS (Table 1; Figures 1, 2). This stream leads to a large lake that needs to be further cataloged to determine upper extent of fish passage. While we did encounter several large beaver dams, these could be navigated by juvenile salmonids and are not true barriers by the FRPA definition.

**Recommendations:** Add stream to the anadromous waters catalog (Figure 3).

**Nomination:** 17-547

Table 1.–103-90-10910 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
775	55.8691	-133.2911	Start survey.		
776	55.8691	-133.2915		EF	2 CO
777	55.8690	-133.2921	Seep on river left.		
778	55.8688	-133.2924	Aged beaver dam, not a barrier to juvenile CO.		
779	55.8684	-133.2928	Old/overgrown beaver dam, bigger than dam at WPT 778. Has lots of grass covering top of dam.		
780	55.8675	-133.2934	Outlet of a large lake, with 4 ft by 15 ft beaver dam blocking lake outlet. This lake is roughly one mile long, by 0.25-0.5 mile wide. Worth future investigation to determine barriers on tribs going into lake. No barriers found up to this WPT. End survey. Tribs/inlets to lake are accessible by road from the south.		





Figure 1.—One of two coho salmon captured at waypoint 776.



Figure 2.—8 ft long beaver dam located at outlet of lake at waypoint 780.





Figure 3.-103-90-10910 (Jinhi Bay West Creek) addition map.





**103-90-10950****ADDITION****Water body name:****Survey date:** 8/25/2016**Watershed:** Tuxekan Passage-Frontal Tonowek Bay**Species & Lifestage:** COr**MTR:** C070S079E **Quad:** Craig D-4**Findings:** We surveyed this stream using a backpack electrofisher and a GPS. We found juvenile coho in this uncataloged stream (Table 1; Figure 1).**Recommendations:** Add uncataloged stream on east Tuxekan Island to the Anadromous Waters Catalog (Figure 2).**Nomination:** 17-546

Table 1.–103-90-10950 stream survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
807	55.7781	-133.2570	Start survey here. This is just past the high intertidal mark.	EF	2 CO
808	55.7777	-133.2576	Stream occasionally goes subsurface.	EF	No Fish
809	55.7779	-133.2578		EF	2 CO
810	55.7781	-133.2579	Creek goes underground, and grade starts to increase (18% grade for 50 ft).	EF	No Fish
811	55.7783	-133.2591	Channel ends here, goes subsurface and does not re-emerge. 140 mm DV caught here. End survey.	EF	DV



Figure 1.–Captured juvenile coho salmon.



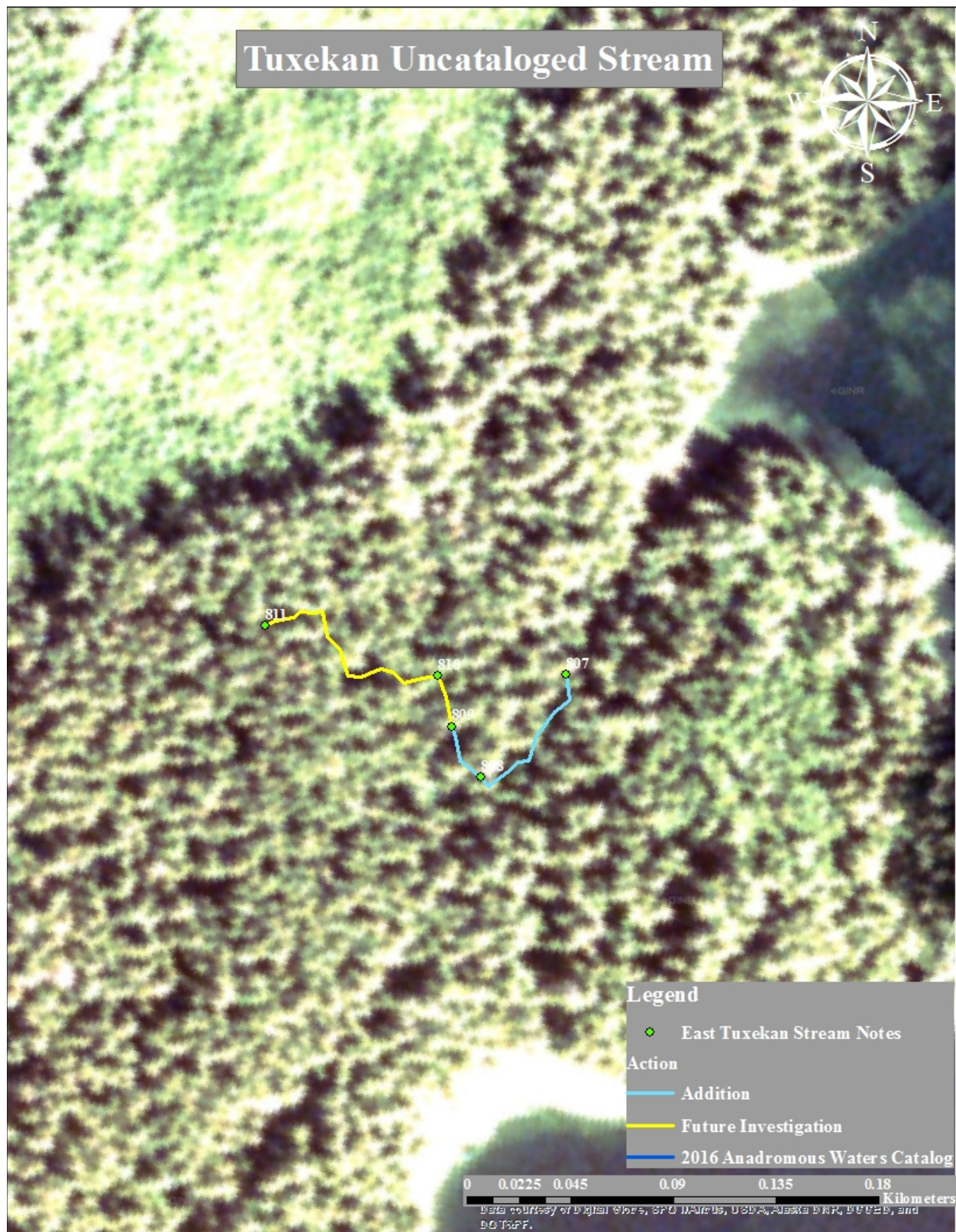


Figure 2.-103-90-10950 (Tuxekan uncataloged stream) addition map.

**105-42-10050****CORRECTION****Water body name:** Calder Creek**Survey date:** 7/19/2016**Watershed:** Shakan Bay-Frontal Sumner Strait**Species & Lifestage:** CHp, COr, Pp, SHr**MTR:** C065S077E **Quad:** Petersburg A-5

**Findings:** We surveyed this stream using a backpack electrofisher and a GPS (Table 1). Tributaries on upper extent of correction did not have water flow (Figure 1). We ended the survey before hitting fish passage barrier (Figure 2).

**Recommendations:** Update Stream No. 105-42-10050's course to match field verified route up to waypoint 634 and merge with existing AWC arc upstream of this point (Figure 3).

**Nomination:** 17-525

Table 1.–105-42-10050 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
592	56.2111	-133.5220	Start of survey at same WPT as 7/18/16. Proceeding upstream.		
607	56.2119	-133.5168	No tribs yet. Appear to be leaving the braided section of stream.		
608	56.2125	-133.5150		VI	CO
609	56.2128	-133.5122	Beaver pond trib on RL, proceeding up.	EF	No Fish
610	56.2128	-133.5118	8 ft tall beaver dam. No CO seen yet.	EF	No Fish
611	56.2129	-133.5112	Small trib going into beaver pond. Grade here is too steep to warrant surveying, as there is also a 3.5 ft falls. No passage for juvenile salmon. This is also the southern edge of polygon that will outline this beaver pond complex.	EF	No Fish
612	56.2132	-133.5096	Trib here, immediately rises in grade to 13-14% and climbs hillside. Not worth investigation. Grade here is a fish barrier. This WPT also represents the southeast edge of polygon.	EF	No Fish
613	56.2136	-133.5089	East/northeast edge of polygon.	EF	No Fish
614	56.2140	-133.5087	Inlet stream to beaver ponds/polygon. Northern edge of polygon.	EF	No Fish



Table 1.–Continued.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
615	56.2144	-133.5074	3 ft falls on rearing-only stream. This is a fish barrier. End survey. Proceeding back down to complete polygon tracing this beaver pond complex.	EF	No Fish
616	56.2138	-133.5092	Northwest edge of polygon.	EF	No Fish
617	56.2136	-133.5111	Western edge of polygon.	EF	No Fish
618	56.2143	-133.5112	Back on main channel. Proceeding up.	EF	No Fish
619	56.2145	-133.5107	Trib on RL coming out from underground through a bedrock crack. Not worth investigation.		
620	56.2174	-133.5092	Trib on RL, proceeding up.	EF	1 RT
621	56.2178	-133.5083		EF	2 DV, 1 SC
622	56.2180	-133.5063	17% for 99 ft, this is a fish barrier. Canyon becomes very incised. End survey.		
623	56.2187	-133.5085	CO in side channel.	VI	CO
624	56.2189	-133.5089	Back on main channel, proceeding up.		
625	56.2232	-133.5062	Main channel is becoming incised and appears to be forming into a canyon. Stream is composed of large cobble and boulders.	EF	No Fish
626	56.2263	-133.5061	Trib on RL, proceeding up.		
627	56.2264	-133.5058		EF	CO
628	56.2268	-133.5056	Small pond at base of hillside.	VI	CO
629	56.2270	-133.5054	Creek ends here as it seeps from underground source into pond off the steep hillside. End survey.	EF	No Fish
630	56.2274	-133.5061	Back on main channel. Proceeding up.	EF	No Fish
631	56.2281	-133.5058	Giant rockpile/logjam falls.	EF	No Fish
632	56.2284	-133.5057	Trib on RR that doesn't have water flow anymore. This trib is also far too steep to be fish habitat, not worth investigation.	EF	No Fish

Table 1.–Continued.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
633	56.2293	-133.5044	Similar to trib at WPT 632, this trib on RR is also too steep and no longer has water flow. Not worth investigation.	EF	No Fish
634	56.2294	-133.5043	Ending survey of main channel here, have not yet found a barrier. Stream appears to be very marginal salmon habitat. Worth future investigation to find barrier. Even though the creek is in a very steep canyon, the main channel still has a relatively low grade (7-9%).	EF	No Fish

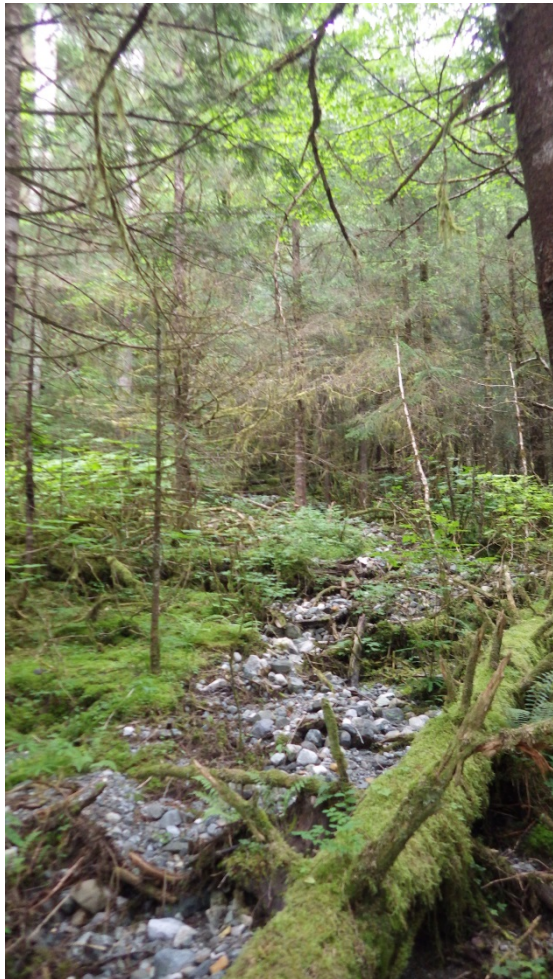


Figure 1.–Tributaries at upper end of creek had no water flow.



Figure 2.—Ended survey here (WPT 634).



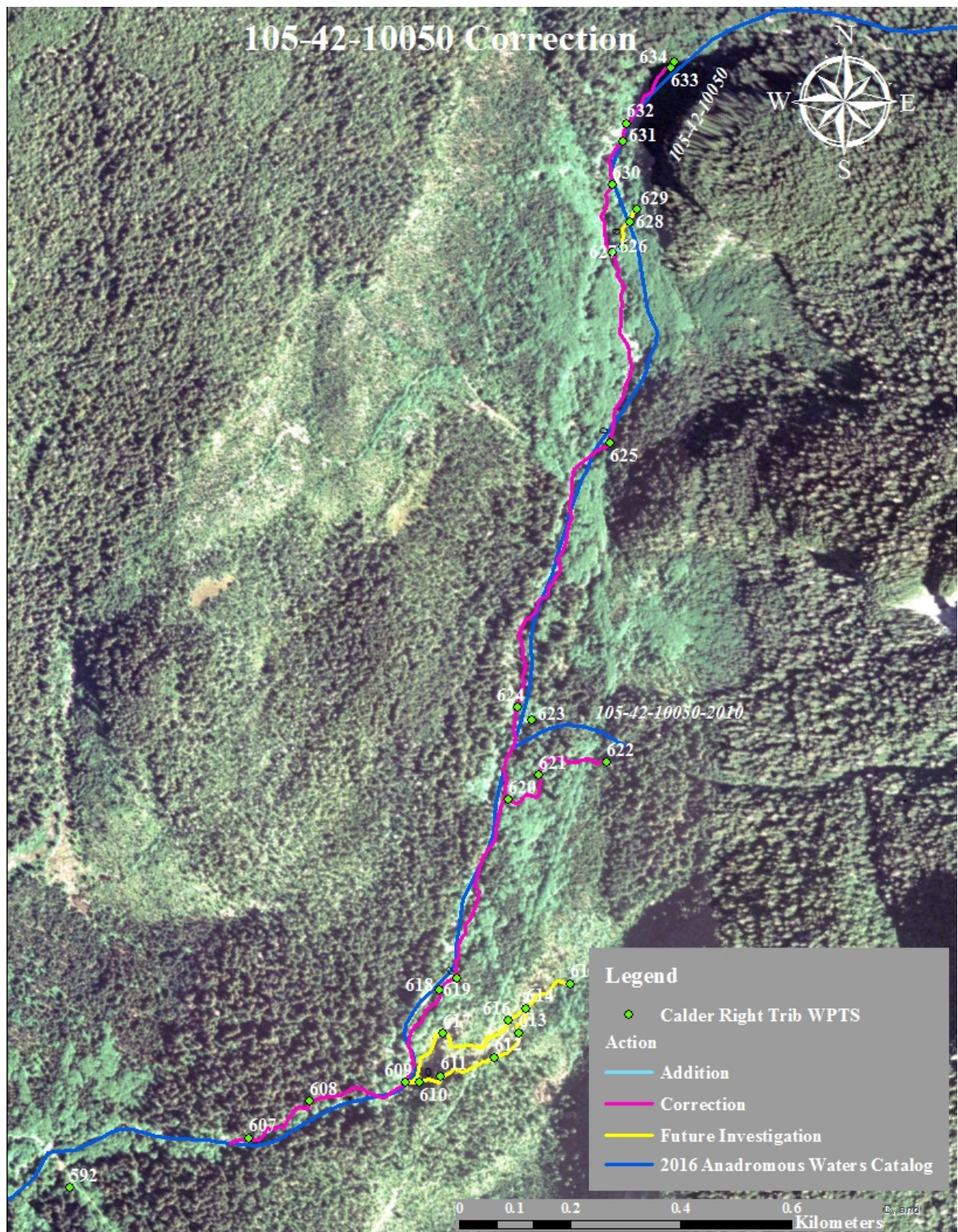


Figure 3.—105-42-10050 correction map.



**105-42-10050-2003****CORRECTION****Water body name:****Survey date:** 7/18/2016**Watershed:** Shakan Bay – Frontal Sumner Strait**Species & Lifestage:** CHp, COr, Pp, SHp**MTR:** C065S077E **Quad:** Petersburg A-5**Findings:** We surveyed this stream using a backpack electrofisher and GPS (Table 1). We documented a barrier falls below the current AWC upper extent for this stream (Figures 1, 2).**Recommendations:** Update stream 105-42-10050-2003's course to match verified field route (Figure 3).**Nomination:** 17-526

Table 1.–105-42-10050-2003 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
594	56.2091	-133.5280	Confluence of all tribs into Calder Creek. Very large logjam pool with lots of chum and pink salmon, as well as lots of Dollies and cutthroat trout.	VI	Many CH, P, DV, CT
601	56.2124	-133.5288	Back on main channel, proceeding up.	EF	No Fish
602	56.2138	-133.5306	Short bedrock rapids area. Grade on this channel appears much higher than other tribs. Stream is also composed of many more boulders and large cobble.	EF	No Fish
603	56.2150	-133.5311	Gigantic logjam.	EF	No Fish
604	56.2166	-133.5321	No tribs up to this point yet. Creek is in very incised canyon. Stream bed is still largely composed of steep, jagged bedrock.	EF	No Fish
605	56.2169	-133.5325	Bedrock rapids, 22% for 39 ft.	EF	No Fish
606	56.2172	-133.5335	30-40 ft bedrock waterfall. This is a barrier to fish passage. End survey.	EF	No Fish





Figure 1.—Barrier falls, side view.



Figure 2.—Barrier falls, front view.





Figure 3.—105-42-10050-2003 route correction map.





**105-42-10050-2003-3006****CORRECTION****Water body name:****Survey date:** 7/18/2016**Watershed:** Shakan Bay – Frontal Sumner Strait**Species & Lifestage:** COsr, SHsr**MTR:** C065S077E **Quad:** Petersburg A-5

**Findings:** We surveyed this stream using a backpack electrofisher and a GPS (Table 1). We observed coho salmon and Dolly Varden char (Figure 1). We ended the survey at a fish passage barrier.

**Recommendations:** Extend Stream No. 105-42-10050-2003-3006 to the point of upper coho capture (Figure 2).

**Nomination:** 17-527

Table 1.–105-42-10050-2003-3006 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
596	56.2113	-133.5278	Trib on RL, proceeding up.		
597	56.2146	-133.5255	No tribs found yet. LOTS of clam/rock scallop shells in the creek bed. Many CO VI so far.	VI	CO
598	56.2162	-133.5239		EF	4 DV
599	56.2176	-133.5222	Gradient is starting to increase.	EF/VI	2 DV, 2 CO
600	56.2185	-133.5225	Start of gradient barrier to fish passage. 134 ft above this WPT, grade is 15%, and further steepens as it goes up the hillside. End survey. 10 ft below WPT is a 3 ft falls.		



Figure 1.–Coho salmon and Dolly Varden char caught with electrofisher and hand net.



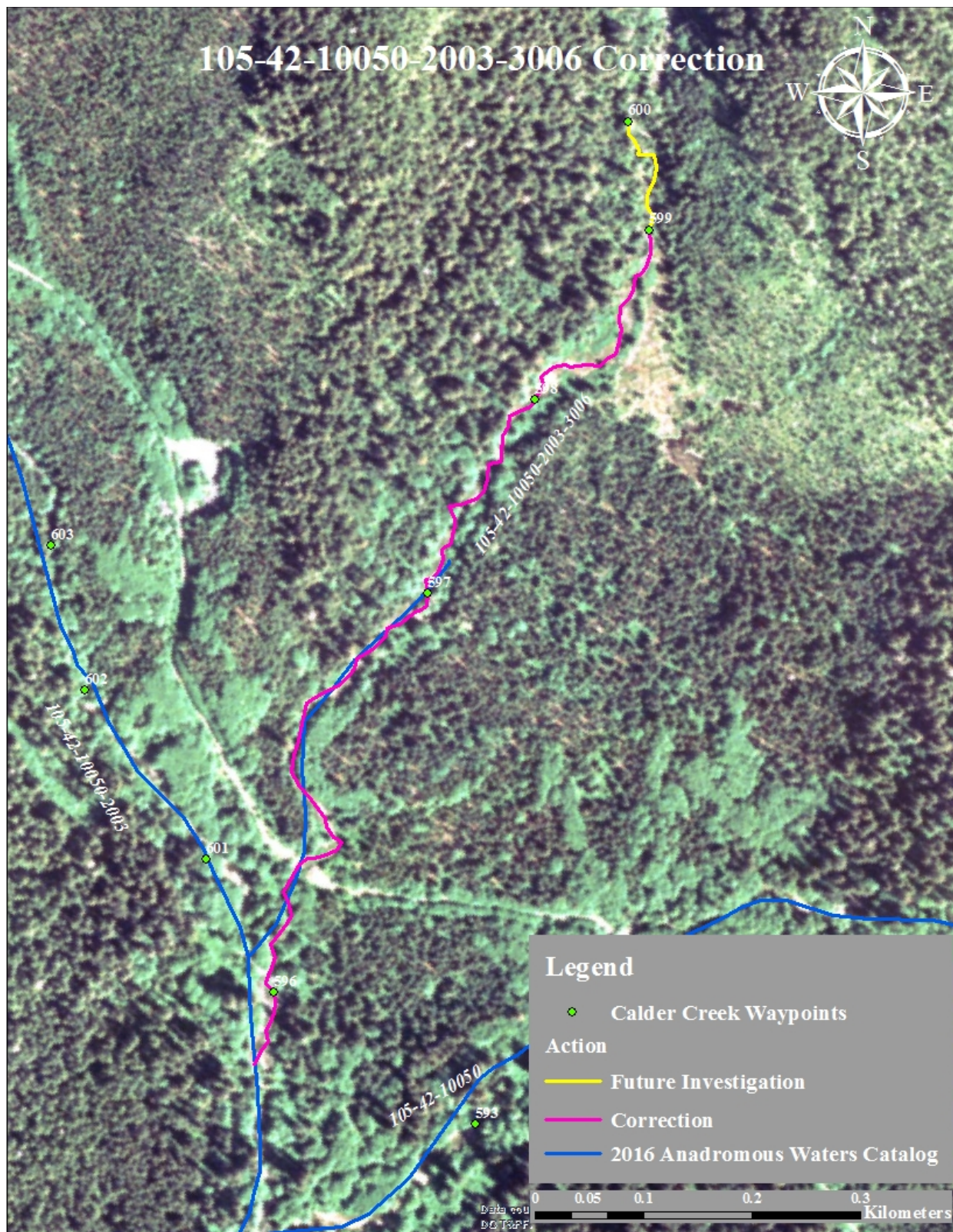


Figure 2.—105-42-10050-2003-3006 correction map.



**105-42-10060-2051****ADDITION****Water body name:****Survey date:** 7/17/2016**Watershed:** Shakan Bay-Frontal Sumner Strait**Species & Lifestage:** CO**MTR:** C066S077E **Quad:** Petersburg A-5**Findings:** We surveyed this stream using a backpack electrofisher and a GPS, and found coho salmon in this uncataloged tributary of Marble Creek (Table 1; Figure 1).**Recommendations:** Add uncataloged tributary of Marble Creek to the Anadromous Waters Catalog (Figure 2).**Nomination:** 17-533

Table 1.–105-42-10060-2051 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
581	56.1810	-133.4590	Trib on RR, proceeding up.	VI	CO
582	56.1809	-133.4587		EF	3 CO
583	56.1813	-133.4590		EF	6 CO
584	56.1816	-133.4592	6 ft. long beaver dam and pond.		
585	56.1819	-133.4586	Back edge of beaver pond.	EF	2 CO
586	56.1826	-133.4582	Trib ends here, where there is a fish barrier due to gradient (15% for 130 ft). End survey.	EF	No Fish



Figure 1.–Three CO captured at WPT 582 on uncataloged tributary of Marble Creek.



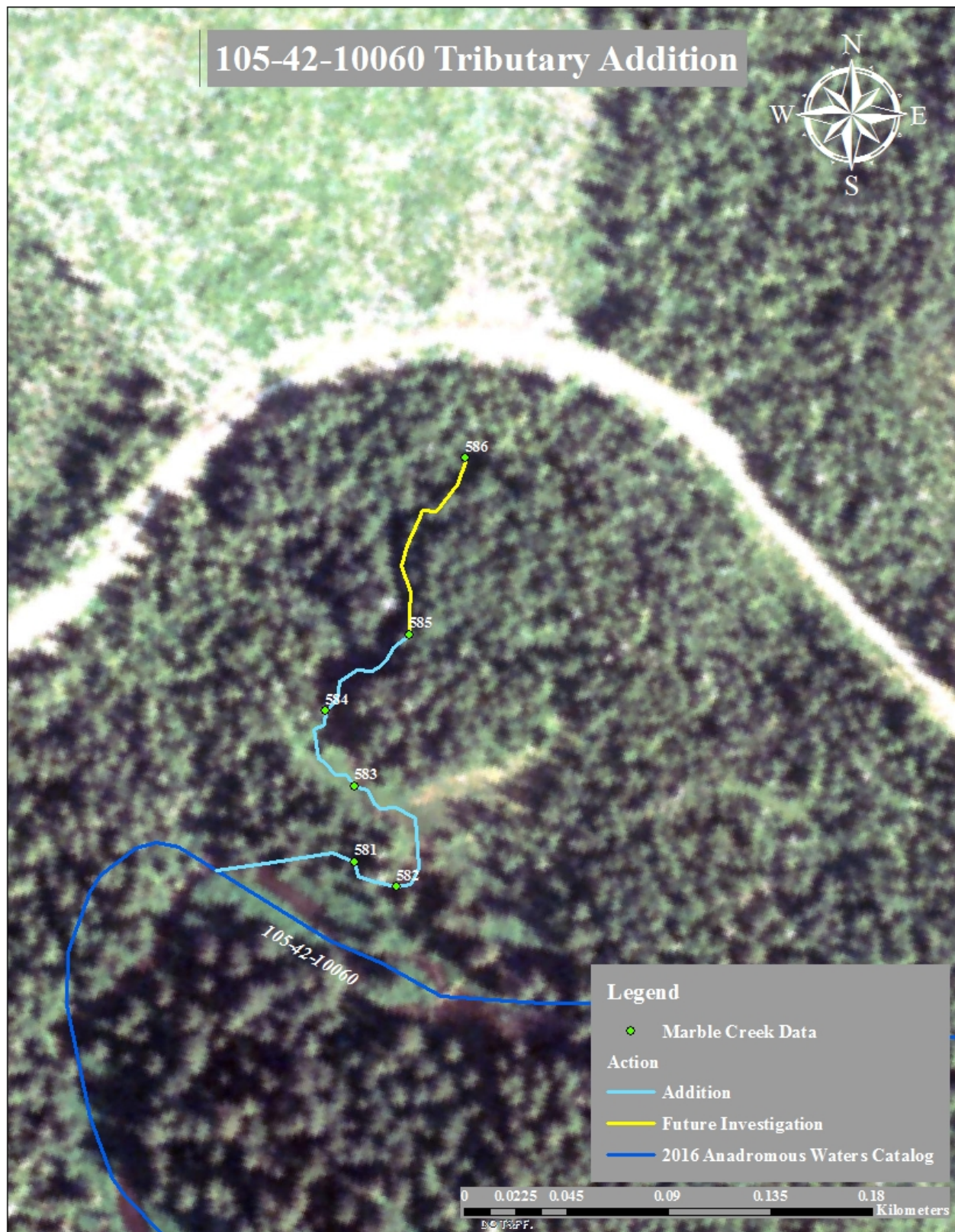


Figure 2.-105-42-10060-2051 (tributary) addition map.

**105-42-10100****CORRECTION****Water body name:** Turn Creek (local name)**Survey date:** 6/7/2016**Watershed:** Davidson Inlet-Frontal Iphigenia Bay**Species & Lifestage:** CHp, COpr, Pp, SHr**MTR:** C066S078E **Quad:** Petersburg A-4**Findings:** We surveyed this stream using a backpack electrofisher and a GPS. We found coho salmon and a large barrier falls at waypoint 159 (Table 1; Figures 1, 2).**Recommendations:** Correct the segment of this stream to match the verified route between waypoints 143 and 159 (Figure 3). Change stream name to reflect name printed on road crossing signs.**Nomination:** 17-542

Table 1.–105-42-10100 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
141	56.1877	-133.2797	Start survey, below road.		
142	56.1874	-133.2800	One CO caught, several more observed.	EF/VI	1 CO
143	56.1874	-133.2803	Confluence to main channel, proceeding up main channel.		
144	56.1881	-133.2800	CO observed in pool off main channel.	VI	CO
145	56.1893	-133.2802	Trib on RR, proceeding up. two CO.	EF	2 CO
146	56.1892	-133.2807		EF	1 CO, 1 DV
147	56.1891	-133.2808	Trib ends 60 ft past here, becomes greater than 8% for 100 ft up hillside. End survey here.		
148	56.1896	-133.2802	Old beaver pond complex (blown out), CO everywhere. Part of different trib on RR, proceeding up.	VI	4 CO
149	56.1896	-133.2803	Trib becomes greater than 16% grade for 200 ft, end survey of trib.		
150	56.1897	-133.2799	Back on main channel, proceeding up.		
151	56.1901	-133.2797	Trib on RR that immediately to more than 8%.		
152	56.1915	-133.2775	RR trib greater than 25%		
153	56.1919	-133.2769	One CO observed in side pool, one CO caught with HN.	HN	1 CO
154	56.1927	-133.2758	CO in pool	VI	1 CO
155	56.1939	-133.2743	Trib on RR, wpt is 30 ft above confluence, start survey. 1 DV VI.	VI	1 DV
156	56.1940	-133.2744	DV seen above here, end survey due to start of 10% grade.	VI	DV



Table 1.–Continued.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
157	56.1943	-133.2736	Confluence of cataloged RL trib and main channel, proceeding up uncataloged main channel, did not survey cataloged trib, topography is limiting due to lack of tribs.		
158	56.1944	-133.2736		EF	2 CO
159	56.1947	-133.2739	unpassable 50 ft barrier with 6-8 ft pool below. End survey.		



Figure 1.–Coho salmon captured at waypoint 158.

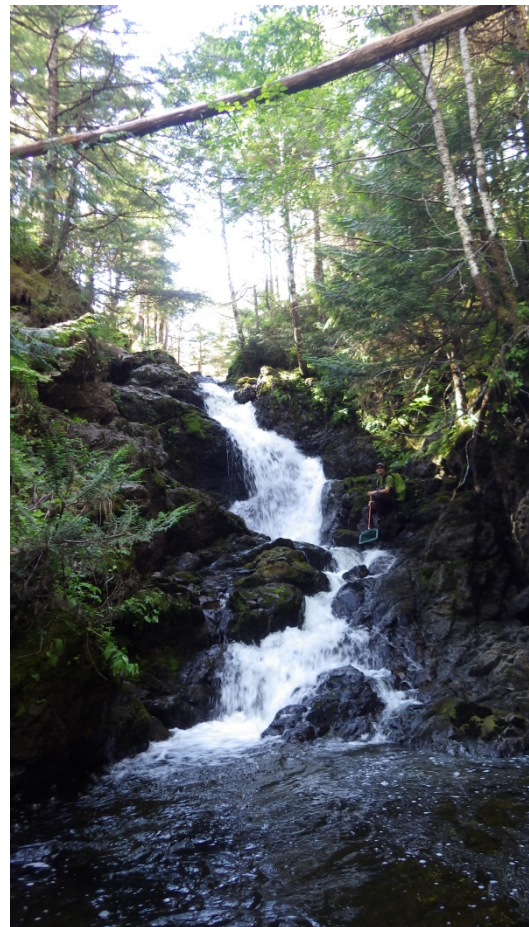


Figure 1.–50 ft waterfall at waypoint 159.



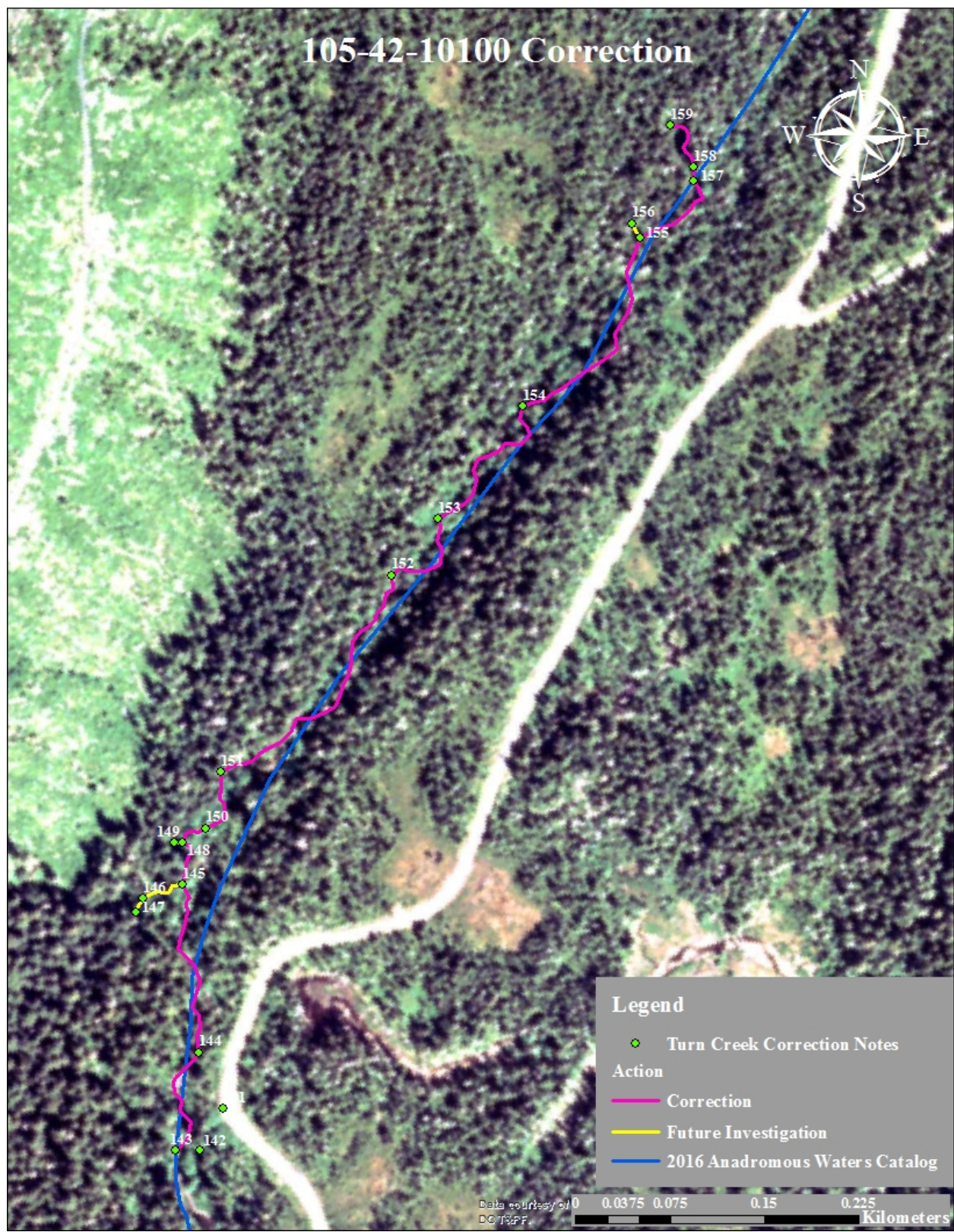


Figure 3.-105-42-10100 correction map.



**105-42-10100-2200****ADDITION****Water body name:****Survey date:** 6/7/2016**Watershed:** Davidson Inlet-Frontal Iphigenia Bay**Species & Lifestage:** CO or

**MTR:** C06 We surveyed this tributary using a backpack electrofisher and GPS. We captured coho salmon and Dolly Varden char in this tributary (Table 1, Figure 1). At the start of the survey, there is a cascading falls complex that is not a barrier to fish passage (Figure 2). At the end of the reach at WPT 536, there is a perched 5ft diameter culvert with potential to block fish passage (Figure 3). 6S078E **Quad:** Petersburg A-4

**Findings:****Recommendations:** Add 105-42-10100 uncataloged tributary to the AWC (Figure 4).**Nomination:** 17-538

Table 1.—105-24-10100-2200 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
141	56.1877	-133.2797	Start survey, below road.		
142	56.1874	-133.2800	One CO caught, several more observed.	EF/VI	1 CO
143	56.1874	-133.2803	Confluence to main channel, proceeding up main channel.	EF	No Fish
160	56.1878	-133.2793	Start of survey above road and WPT 141. Small falls complex that is fish passable. Looked above small falls and saw beaver pond area, will continue survey tomorrow.	EF	No Fish
185	56.1884	-133.2786	Start survey at drained beaver pond.	EF	No Fish
186	56.1885	-133.2781		HN	CO
187	56.1881	-133.2767	Many CO seen between here and last WPT.	VI	Several CO
188	56.1881	-133.2759	Small cascading falls complex.	HN	2 CO
189	56.1881		No falls/rapids above 3 ft, 15 CO observed in pool above "falls".	VI	15 CO
190	56.1887	-133.2742	Trib on RR, leads to ponds, proceeding up.	EF	No Fish
505	56.1887	-133.2741	Start survey on main channel, continuing at WPT 190 from 6/8/16. Proceeding up trib on RR.	EF	No Fish
506	56.1888	-133.2733		VI	CO



Table 1.–Continued.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
507	56.1889	-133.2724	Trib on RR, proceeding up. CO VI at confluence.	VI	CO
513	56.1887	-133.2725	Back on main channel.	EF	No Fish
514	56.1885	-133.2720	Trib on RR, proceeding up.	EF	No Fish
522	56.1882	-133.2718	Back on main channel.	EF	No Fish
523	56.1876	-133.2712	Many CO seen in pools below this WPT.	VI	CO
524	56.1874	-133.2710	Trib on RR of main channel. Proceeding up. Off this trib is another trib on RR, proceeding up.	EF	2 CO, 2 DV
529	56.1872	-133.2712	Back on main channel.	EF	No Fish
530	56.1865	-133.2721	Many CO observed between WPT 529 and 530. Grade is starting to increase.	VI	CO
531	56.1862	-133.2725	3-3.5 ft bedrock step falls complex. CO found above this.	VI	CO
532	56.1853	-133.2725	7 CO in side pool off main channel.	VI	CO
533	56.1846	-133.2725		EF	CO
534	56.1830	-133.2733		EF	4 CO
535	56.1815	-133.2721		EF	1 CO, 1 DV
536	56.1811	-133.2722	CMP, 5 ft in diameter, perched 1 ft. Goes beneath old logging road.	EF	CO
537	56.1810	-133.2718	Trib on RR, not worth investigation due to barrier grade (16% for over 100 ft). Main channel has a grade of 13% for 234 ft. This is a barrier to anadromous fish. End survey.		



Figure 1.–Coho salmon captured in Turn Creek.



Figure 2.–Cascading falls complex. Filled with woody debris. This is not a fish barrier.



Figure 3.—Perched culvert from WPT 536.





Figure 4.–105-24-10100-2200 addition map.



**105-42-10100-2200-3015****ADDITION****Water body name:****Survey date:** 6/7/2016**Watershed:** Davidson Inlet-Frontal Iphigenia Bay**Species & Lifestage:** COr**MTR:** C066S078E **Quad:** Petersburg A-4**Findings:** This tributary was surveyed using a backpack electrofisher and GPS. We found coho salmon in a beaver pond complex adjacent to the main channel (Table 1; Figure 1).**Recommendations:** Add uncataloged tributary of stream 105-42-10100 to Anadromous Waters Catalog (Figure 2).**Nomination:** 17-539

Table 1.–105-42-10100-2200-3015 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
190	56.1887	-133.2742	Trib on RR, leads to ponds, proceeding up.	EF	No Fish
191	56.1892	-133.2742	Several CO seen to this point, lots of beaver dams.	VI	CO
192	56.1897	-133.2754	No CO seen yet.	EF	No Fish
193	56.1905	-133.2753	Very large beaver dam, several DV seen up to this point.	EF	DV



Figure 1.–Beaver ponds/slough near WPT 191.





Figure 2.—105-42-10100-2200-3015 (tributary 2) addition map.

**105-42-10100-2200-3021****ADDITION****Water body name:****Survey date:** 7/13/2016**Watershed:** Davidson Inlet-Frontal Iphigenia Bay**Species & Lifestage:** COr**MTR:** C066S078E **Quad:** Petersburg A-4**Findings:** We surveyed this stream using a backpack electrofisher and a GPS, and found coho salmon (Table 1; Figure 1).**Recommendations:** Add uncataloged tributary of stream 105-42-10100 into the Anadromous Waters Catalog (Figure 2).**Nomination:** 17-540

Table 1.—105-42-10100-2200-3021 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
514	56.1885	-133.2720	Trib on RR, proceeding up.	EF	No Fish
515	56.1886	-133.2718	One CO shocked, three others VI	EF/VI	4 CO
516	56.1886	-133.2716	Trib goes underground.	EF	No Fish
517	56.1885	-133.2713	WPTs 515 and 516 are side channels to this main trib, proceeding up main trib.	EF	No Fish
518	56.1884	-133.2712		EF	2 CO
519	56.1886	-133.2709	Trib here is in an incised canyon. Grade steadily increasing.	VI	CO
520	56.1892	-133.2705	Very steep canyon, 13% for 93 ft.	EF	No Fish
521	56.1895	-133.2704	16% grade for 85 ft. Continues to maintain 16% for approximately another 55-65 ft, where creek makes a turn and goes out of sight. This is a fish barrier based on grade. End survey of trib.	EF	No Fish



Figure 1.—Captured coho salmon from waypoint 518.



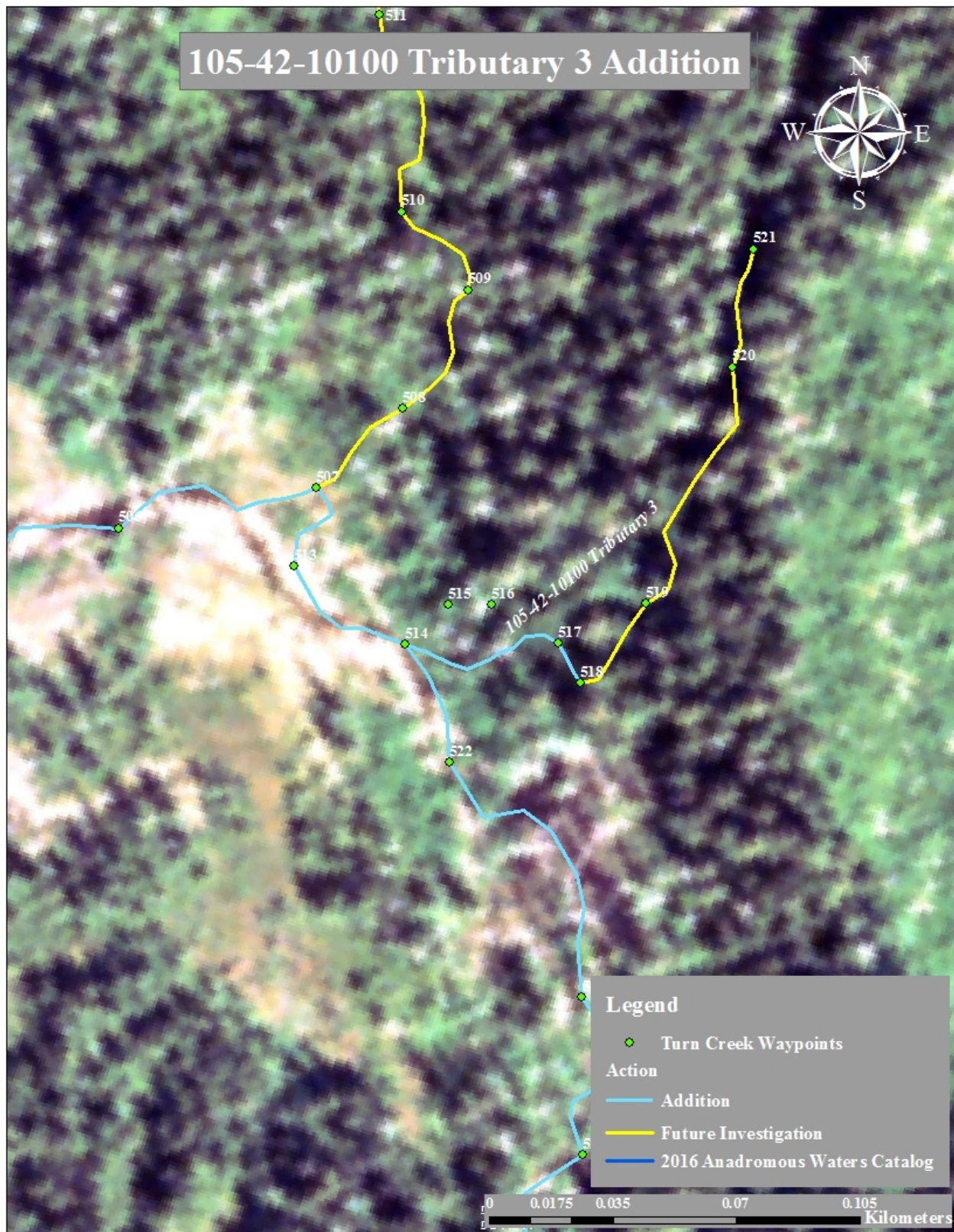


Figure 2.—105-42-10100-2200-3021 (Tributary 3) addition map.



**105-42-10100-2200-3029****ADDITION****Water body name:****Survey date:** 7/13/2016**Watershed:** Davidson Inlet-Frontal Iphigenia Bay**Species & Lifestage:** CO**MTR:** C066S078E **Quad:** Petersburg A-4**Findings:** We surveyed this stream using a backpack electrofisher and a GPS. We found coho salmon present in this tributary and found a gradient barrier at waypoint 528 (Table 1; Figure 1).**Recommendations:** Add uncataloged tributary of stream 105-42-10100 into the Anadromous Waters Catalog (Figure 2).**Nomination:** 17-541

Table 1.–105-42-10100-2200-3029 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
524	56.1874	-133.2710	Trib on RR of main channel. Proceeding up. Off this trib is another trib on RR, proceeding up.	EF	2 CO, 2 DV
527	56.1873	-133.2710		EF	3 CO, 1 DV
528	56.1872	-133.2708	Grade barrier, 20% grade for 50 ft. End survey of this trib.		



Figure 1.–Three coho salmon captured at waypoint 527.



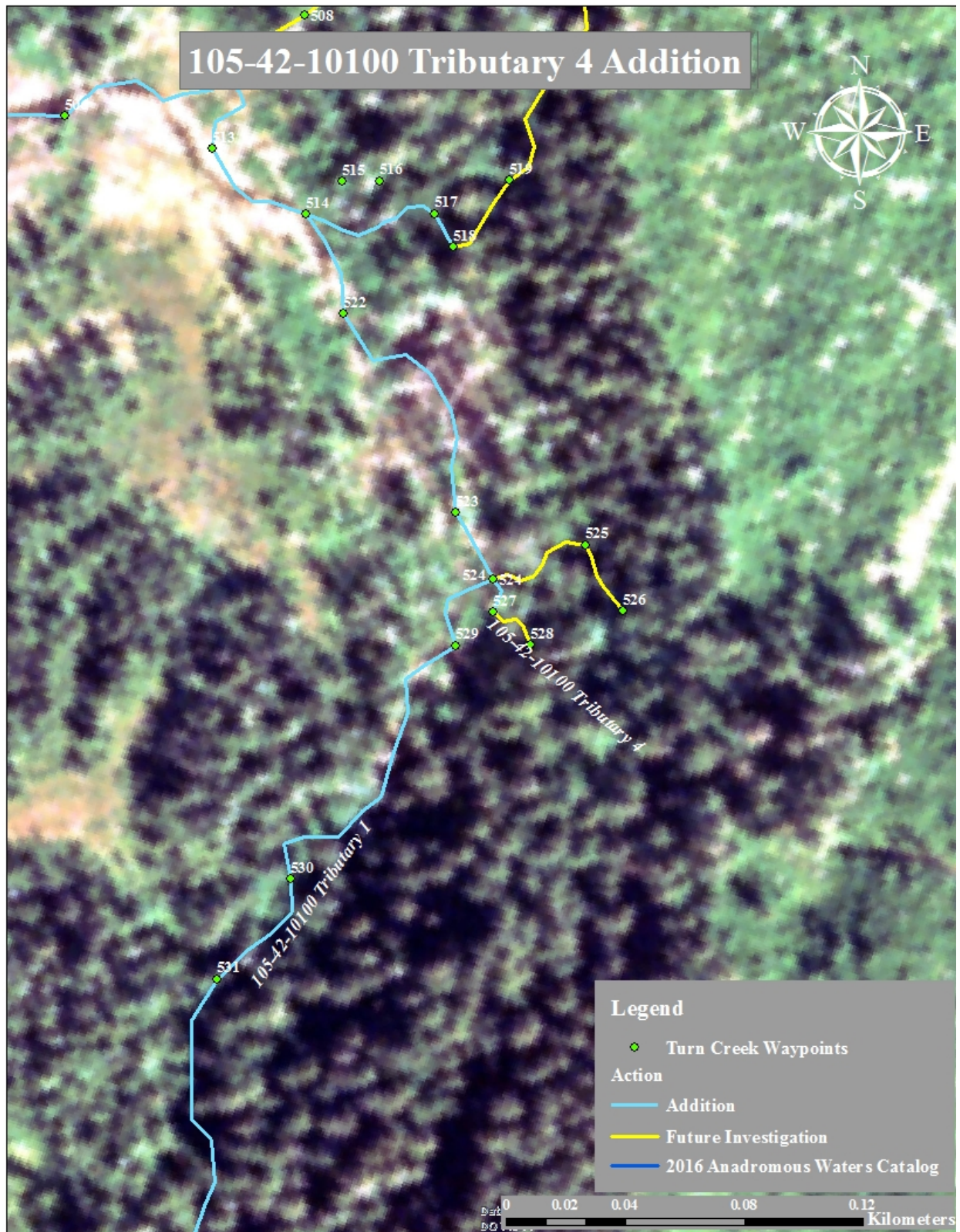


Figure 2.—105-42-10100-2200-3029 (tributary 4) addition map.



**105-42-10105****ADDITION****Water body name:****Survey date:** 7/12/2016**Watershed:** Davidson Inlet-Frontal Iphigenia Bay**Species & Lifestage:** COr**MTR:** C066S078E **Quad:** Petersburg A-4**Findings:** We surveyed this stream using a backpack electrofisher and a GPS. We captured coho salmon in this uncataloged stream (Table 1; Figure 1).**Recommendations:** Add uncataloged stream into the Anadromous Waters Catalog (Figure 2).**Nomination:** 17-534

Table 1.—105-42-10105 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
501	56.1596	-133.2810	Start survey at high intertidal mark (17 ft).		
502	56.1597	-133.2811	Creek starts to climb in grade.	VI/HN	3 CO
503	56.1598	-133.2815	Grade at 10% for 66 ft. Very large, embedded CMP (10 ft across with lots of cobble/rock inside). This CMP goes under road.		
504	56.1600	-133.2818	Barrier bedrock falls on other side of CMP/road. 3.5-4 ft tall on rearing-only stream. Just above this (approximately 20 ft) is a 2 ft straight falls over bedrock/logs. This is a fish barrier, end survey.		



Figure 1.—Coho salmon captured at waypoint 502.

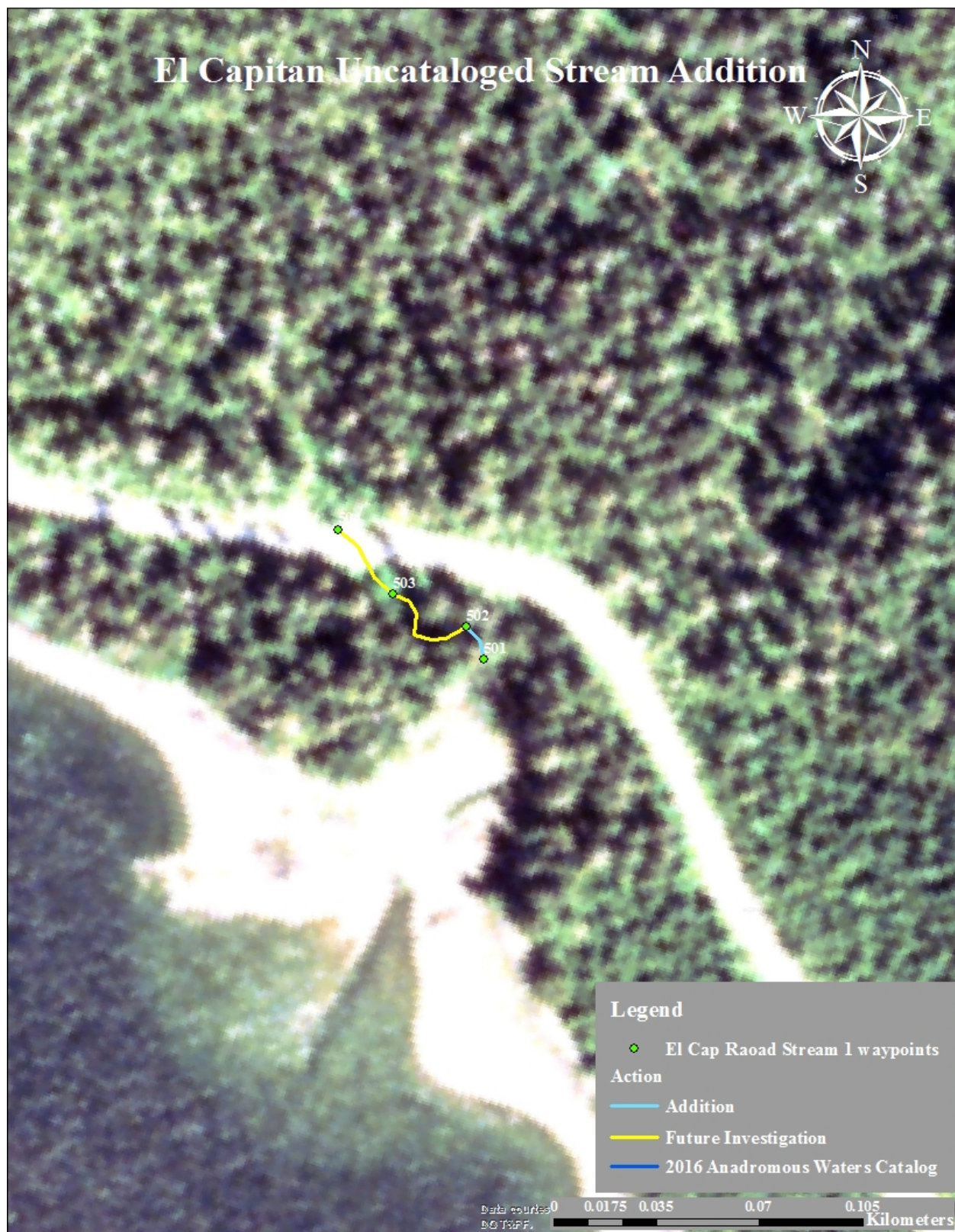


Figure 2.-105-42-10110 (El Capitan uncataloged stream) addition map.



**105-42-10110****CORRECTION****Water body name:****Survey date:** 7/13/2016**Watershed:** Davidson Inlet-Frontal Iphigenia Bay**Species & Lifestage:** CHp, COp, Pp**MTR:** C066S078E **Quad:** Petersburg A-4**Findings:** We surveyed this stream using a backpack electrofisher and a GPS. We found juvenile coho salmon and a fish passage barrier on this stream (Table 1; Figures 1, 2).**Recommendations:** Correct Stream No. 105-42-10110 to reflect verified stream path (Figure 3).**Nomination:** 17-535

Table 1.—105-42-10110 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
543	56.1611	-133.2597	Start survey. CO observed at large embedded CMP going under road.	VI	CO
544	56.1617	-133.2595	CO in side channel.	VI	CO
545	56.1627	-133.2590	Grade is noticeably increasing here.	EF	No Fish
546	56.1630	-133.2592	Trib on RL, proceeding up.	EF	CO
547	56.1634	-133.2588	Possible trib or side channel from main channel on RR of present trib. Will investigate after finding barrier on current trib.		
548	56.1634	-133.2576	Grade becomes 18% for 90 ft. Several step falls as well, with a bedrock 3 ft falls/shallow water curtain impeding fish passage. Gradient and falls are a barrier, end survey.	EF	No Fish
547	56.1634	-133.2588	Back at side trib, proceeding up.		
549	56.1636	-133.2587	From WPTs 547 to 549, 13% grade for 72 ft above this. Grade maintains at 13% for an additional 150 ft, then further increases. This is a barrier due to grade, being greater than 12% grade for 225 ft. End survey. Going back to main channel.	EF	No Fish
550	56.1631	-133.2594	Back on main channel, proceeding up.		
551	56.1636	-133.2598		VI/EF	4 CO

Table 1.–Continued.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
552	56.1639	-133.2597	Trib on RL, too steep for fish habitat (greater than 20% for 50 ft). Not worth investigation.		
533	56.1640	-133.2600	Very large, 10 ft, vertical waterfall that drops over bedrock. This is a complete fish barrier. Base pool is 1 ft deep at maximum depth. End survey.		



Figure 1.–Coho salmon captured at waypoint 547.



Figure 2.–Waterfall barrier at waypoint 533.



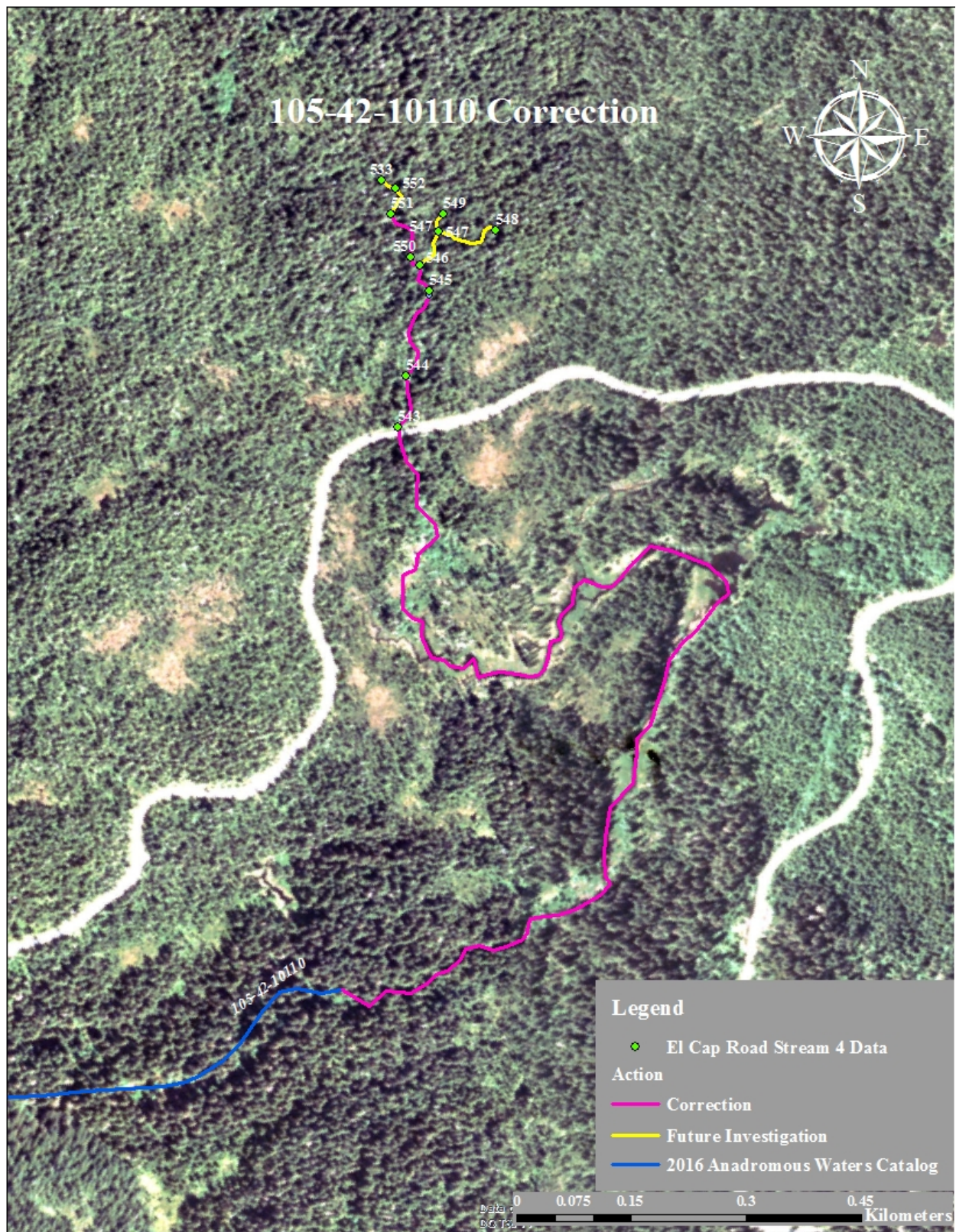


Figure 3.-105-42-10110 correction map.





**105-42-10110-2100****ADDITION****Water body name:****Survey date:** 7/13/2016**Watershed:** Davidson Inlet-Frontal Iphigenia Bay**Species & Lifestage:** CO**MTR:** C066S078E **Quad:** Petersburg A-4**Findings:** We surveyed this stream using a backpack electrofisher and a GPS (Table 1). We found juvenile coho salmon up to waypoint 541 on this uncataloged tributary.**Recommendations:** Add uncataloged tributary of stream 105-42-10110 to the Anadromous Waters Catalog (Figure 1).**Nomination:** 17-536

Table 1.–105-42-10110-2100 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
539	56.1615	-133.2540	Start survey. CO at embedded CMP, which is 5.5-6 ft wide.	VI	CO
540	56.1621	-133.2527	Creek becomes insiced and "canyon" like.	VI	CO
541	56.1627	-133.2503	Trib on RL, not worth investigation due to steep grade (20% for 50 ft).	EF	2 CO
542	56.1634	-133.2499	Grade here is 25% for 38 ft. This is a fish barrier. End survey.		



Figure 1.-105-42-10110-2100 (Tributary) addition map.



**106-30-10770****CORRECTION****Water body name:****Survey date:** 7/14/2016**Watershed:** Kashevarof Passage-Frontal Clarence Strait **Species & Lifestage:** CHs, COpr, Ps**MTR:** C066S079E **Quad:** Petersburg A-4**Findings:** We surveyed this stream using a backpack electrofisher and a GPS. We found two fish passage barriers on uncataloged tributaries of this stream (Table 1, Figures 1, 2).**Recommendations:** Update stream path to reflect verified route. Merge existing Anadromous Waters Catalog Arc with updated stream course (Figure 3).**Nomination:** 17-548

Table 1.—106-30-10770 correction survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
569	56.1156	-133.1626	Start survey.		
570	56.1179	-133.1636	Trib on RL, appears very steep, proceeding up.		
571	56.1180	-133.1636	From WPT 570-571: 24% grade for 54 ft. This is a barrier to anadromous fish, end survey.		
572	56.1179	-133.1638	Back on main channel, proceeding up.		
573	56.1180	-133.1644	Trib on RL, too steep and not worth investigation.		
574	56.1181	-133.1648	Small bedrock rapids (2.5 ft tall), two possible routes for fish passage.	VI	1 CO
575	56.1180	-133.1657		VI	1 CO
576	56.1182	-133.1680	Trib on RL, proceeding up, appears very "canyon" like.		
577	56.1185	-133.1677	Large set of falls here. First is over bedrock, almost vertical, and 10-12 ft tall, with three places where water flows over. This drops into a shallow pool (1.5 ft deep) then cascades over a smaller falls (5 ft). This is a complete barrier to fish passage. End survey.		
576	56.1182	-133.1680	Back on main channel, ending survey here since the creek exits the logging parcel. No barriers found on main channel, and may still be worth investigation to determine upper extent of anadromous fish.		



Figure 1.–Small bedrock rapids at waypoint 574.



Figure 2.–Bedrock waterfall at waypoint 577.





Figure 3.–106-30-10770 correction map.





**106-30-10798****ADDITION****Water body name:****Survey date:** 7/14/2016**Watershed:** Kashevarof Passage-Frontal Clarence Strait**Species & Lifestage:** COr**MTR:** C066S079E **Quad:** Petersburg A-4

**Findings:** We surveyed this stream using a backpack electrofisher and a GPS. We encountered coho salmon lower on the main channel, and encountered a barrier on a tributary at waypoint 563 (Table 1; Figures 1).

**Recommendations:** Add this uncataloged stream into the Anadromous Waters Catalog (Figure 2).

**Nomination:** 17-551

Table 1.–106-30-10798 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
559	56.1263	-133.1456	Start survey.	VI	CO
560	56.1270	-133.1469	Braided logjam section.	EF	No Fish
561	56.1286	-133.1488		EF	6 CO
562	56.1292	-133.1501	Trib on RR, proceeding up.		
563	56.1288	-133.1503	Large barrier falls on trib. Two separate falls, with shallow pool/step between in between (6 ft falls, a step, then a 4 ft falls). This is composed of bedrock. This is a fish barrier, end survey.		
564	56.1292	-133.1503	Back on main channel, proceeding up.		
565	56.1300	-133.1521	3.5 ft drop/falls on a rearing-only stream. This is a barrier. This is also the edge/border of a clear cut. End survey.		



Figure 1.-Waterfall barrier at waypoint 563.



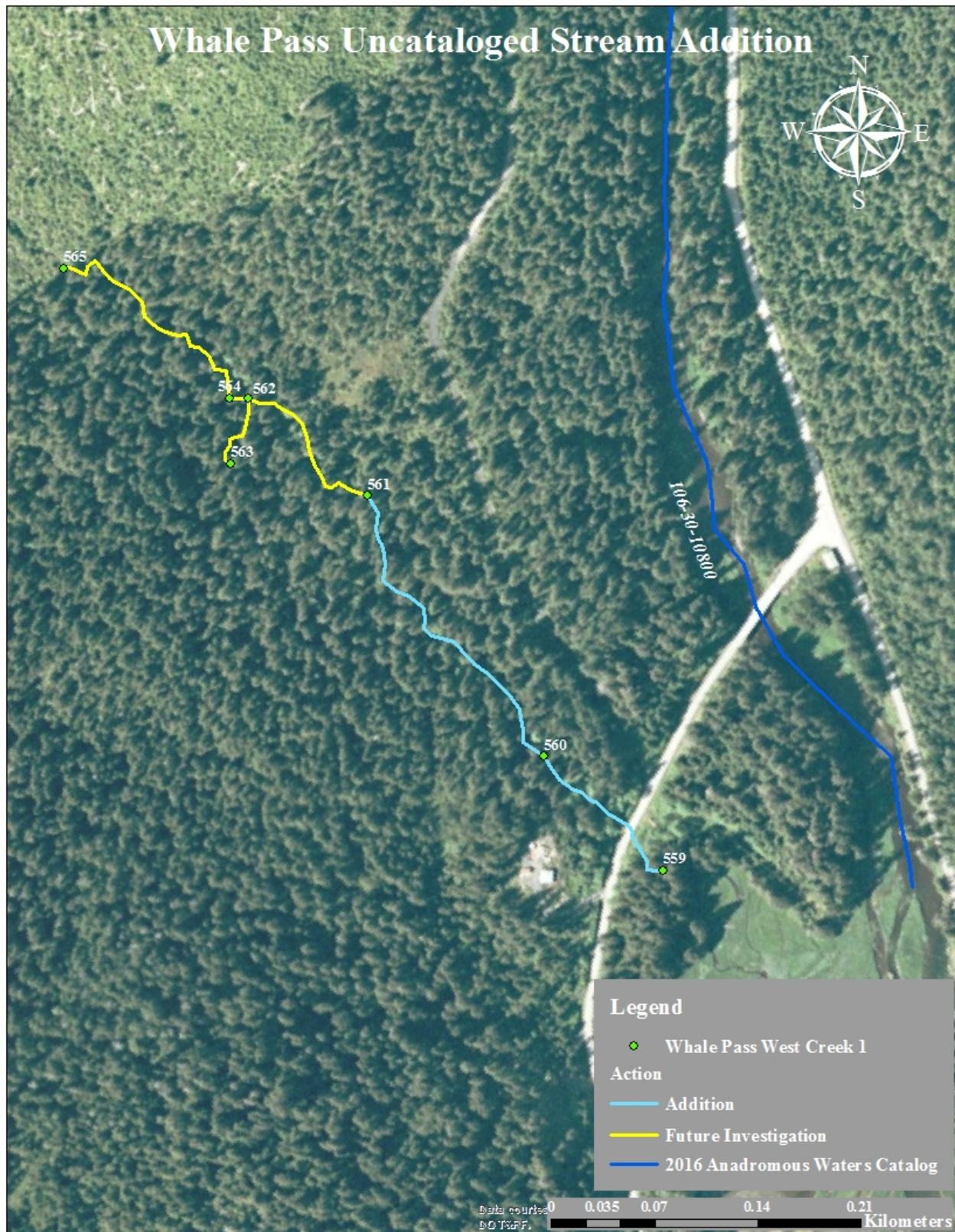


Figure 2.—106-30-10798 (Whale Pass uncataloged stream) addition map.





**106-30-10805****ADDITION****Water body name:****Survey date:** 7/14/2016**Watershed:** Kashevarof Passage-Frontal Clarence Strait**Species & Lifestage:** COr**MTR:** C066S079E **Quad:** Petersburg A-4

**Findings:** We surveyed this stream using a backpack electrofisher and a GPS. We encountered juvenile coho salmon and what is likely a fish passage barrier at waypoints 557 and 558 (Table 1; Figure 1).

**Recommendations:** Add this uncataloged stream to the Anadromous Waters Catalog (Figure 2).

**Nomination:** 17-549

Table 1.—106-30-10805 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
555	56.1172	-133.1232	Start survey at high intertidal (17 ft mark).		
556	56.1177	-133.1234		EF	2 CO
557	56.1179	-133.1228	3.5 ft falls, then above this the grade increases.	EF	No Fish
558	56.1180	-133.1228	Grade is 17% for 99 ft. This is probably a barrier to fish passage. There is also a bedrock step falls below this WPT (WPT 557) that is probably also a barrier to fish passage.		



Figure 1.—Coho captured in 106-30-10805.





Figure 2.-106-30-10805 (Whale Pass uncataloged stream) addition map.



**106-30-10820-2003-3009****CORRECTION****Water body name:** Squaw Creek**Survey date:** 7/24/2016**Watershed:** Kashevarof Passage-Frontal Clarence Strait**Species & Lifestage:** COpr**MTR:** C066S080E **Quad:** Petersburg A-4**Findings:** We surveyed this stream using a backpack electrofisher and a GPS to capture coho salmon (Table 1; Figure 1).**Recommendations:** Further extend Stream No. 106-30-10820-2003-3009 through the lake (Figure 2).**Nomination:** 17-550

Table 1.–106-30-10820-2003-3009 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
635	56.1397	-133.1156	Start survey at beaver dam just above lake.		
636	56.1384	-133.1168	More beaver dams here.	EF	No Fish
637	56.1376	-133.1177	Creek starts to have current here and shallows up.	EF	No Fish
638	56.1373	-133.1178		EF	CO
639	56.1361	-133.1184	More water flow in stream. Stream bank is beoming incised and forming canyon.	EF	CO
640	56.1357	-133.1188	Trib on RL, too steep (greater than 16% for 100 ft). Not worth investigation.		
641	56.1353	-133.1185		VI	3 CO
642	56.1344	-133.1184	Trib on RL, proceeding up.		
643	56.1344	-133.1188	Trib disappears into bog and also drains a large skunk cabbage patch. Trib no longer has a channel, end survey.	EF	No Fish
644	56.1343	-133.1184	Back on main channel. Large beaver dam located here.	EF	No Fish
645	56.1328	-133.1177		VI	2 CO
646	56.1303	-133.1177	Trib on RL, proceeding up.		
647	56.1301	-133.1181	Grade at 12% for 225 ft. This is a barrier. The trib also continues to steepen as it climbs up hillside.		
648	56.1301	-133.1175	Back on main channel.		
649	56.1276	-133.1191	Creek climbs hillside, grade is 13% for 226ft. This is a barrier. End survey.		



Figure 1.-Coho salmon captured at waypoint 638.



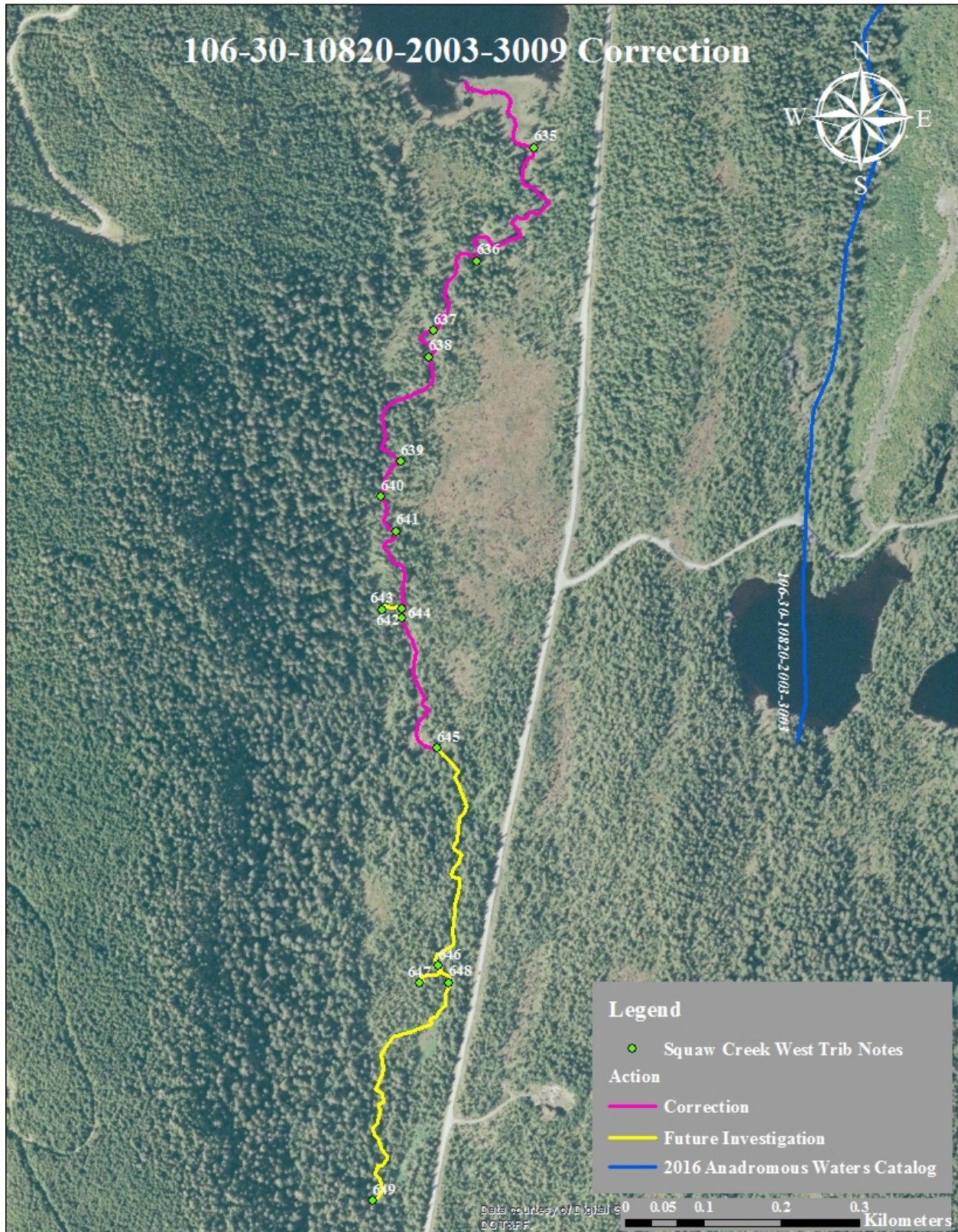


Figure 2.—106-30-10820-2003-3009 correction map.

