State of Alaska
Department of Fish and Game
Sportfish Division

Nomination Form
Anadromous Waters Catalog

Region: Southeastern

USGS Quad(s): Skagway A-1

Anadromous Waters Catalog Number of Waterway: 115-34-10220

Name of Waterway: ☐ USGS Name ☐ Local Name

☐ Addition ☐ Deletion ☑ Correction ☐ Backup Information

For Office Use

Nomination #	12-581	Fisheries Scientist	11/2/12 Date
Revision Year:	2013	Habitat Operations Manager	11/2/12 Date
Revision to: Atlas		AWC Project Biologist	10/24/12 Date
Both	X	Cartographer	11/21/12 Date
Revision Code:	C-9		

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
coho salmon	07/26/2012		✓	✓	✓
cutthroat trout	07/26/2012			✓	
Dolly Varden	07/27/2012			✓	

IMPORTANT: Provide all supporting documentation that this water body is important for the spawning, rearing or migration of anadromous fish, including: number of fish and life stages observed; sampling methods, sampling duration and area sampled; copies of field notes; etc. Attach a copy of a map showing location of mouth and observed upper extent of each species, as well as other information such as: specific stream reaches observed as spawning or rearing habitat; locations, types, and heights of any barriers; etc.

Comments:

Coordinates (Lat,Long): Upper(59.167202,-135.36524) Lower(59.15812,-135.355095)

Revise hydrography, Reposition pts.

Name of Observer (please print): Nicole Legere

Signature: 146.63.61.200 (Web Nomination) Date: 09/26/2012

Agency:

Address: PO Box 110024 PO Box 110024
Juneau, AK 99811-0024

This certifies that in my best professional judgment and belief the above information is evidence that this waterbody should be included in or deleted from the Anadromous Waters Catalog.

Signature of Area Biologist: _____ Date: _____ Revision 02/08

Name of Area Biologist (please print):

115-34-10220 Route Correction

Stream: 115-34-10220
Watershed: Chilkat-Inlet Frontal Lynn Canal
USGS Quadrangle: Skagway A-1
MTRS: CO31S060E
Date Surveyed: July 20, July 26-27, 2012
Findings: Over the course of three days of surveying we mapped out the mainstem and associated tributaries of stream 115-34-10220, and we found the AWC to be incorrect on the upper section of the stream.
Recommendations: Update this stream route in the AWC.
Nomination form submitted: Yes
Nomination status:
Notes:

Table 1: 115-34-10220 Route Correction Survey Data

Waypoints	Latitude	Longitude	Notes	Sample Effort	Sample Results
218	59.15812	-135.355095	Possible tributary enters on river left. Begin tracking upstream.		
221	59.1587	-135.357402	Tributary enters river right, beginning tracking and shocking up.		
1	59.15866	-135.357309	Confluence of tributary to Halibut Cove Creek		
2	59.16005	-135.357964	Tributary on river right. Handnetted stickleback	handnet	STK
9	59.16054	-135.35837	Tributary into main tributary on river right		
14	59.16059	-135.358415	Back @ main tributary		
15	59.16103	-135.358073	Tributary entering on RL. Heading up		
17	59.16115	-135.358073	Back on mainstem tributary		
18	59.16245	-135.358304	Coho handnetted	handnet	CO
19	59.16346	-135.358705	E-fished 2 cutthroat	electrofish	2 CT
20	59.164	-135.359307	Captured 3 CT, 65-80 mm	electrofish	3 CT - 65-80
21	59.1644	-135.359411	Captured 1 CO, 95 mm with positive ID of three more individuals	electrofish	1 CO - 95 mm
22	59.16458	-135.360249	Coho captured x 2 @ 100 mm. Very smolty!	electrofish	2 CO - 100mm
23	59.16558	-135.361832	Tributary entering river left has about half of flow. Tracking and shocking		
24	59.16568	-135.361756	Electrofished 15% duty cycle, 30 Hz, 300 V. Got 2 DV about 40 mm	electrofish	2 DV ~ 40 mm
25	59.16598	-135.361857	Calling the top of this tributary. Water becomes seep and not much flow. Would recommend more investigation when there is more water.		

26	59.16589	-135.363231	Electrofished and got 2 cutthroat about 45 mm	electrofish	2 CT ~ 45 mm
27	59.16595	-135.363209	Tributary entering river right. Tracking and shocking		
28	59.16592	-135.363595	Top of tributary. Water just seeping out of the ground out of marsh area.		
29	59.16644	-135.363726	Electrofished 1 cut ~ 40 mm and 1 DV ~ 25 mm	electrofish	1 CT ~ 40 mm, 1 DV ~ 25 mm
30	59.16652	-135.363909	Tributary entering river left, maybe Halibut Cove Creek hard to tell, tracking up.		
31	59.16702	-135.364047	Calling the top of water mentioned in WPT # 30. No more flow at this would need more rain in order to know if being used.		
32	59.1672	-135.36524	Calling the top of the river right reach mentioned in WPT # 30 there is little flow. Maybe come back later when more water.		

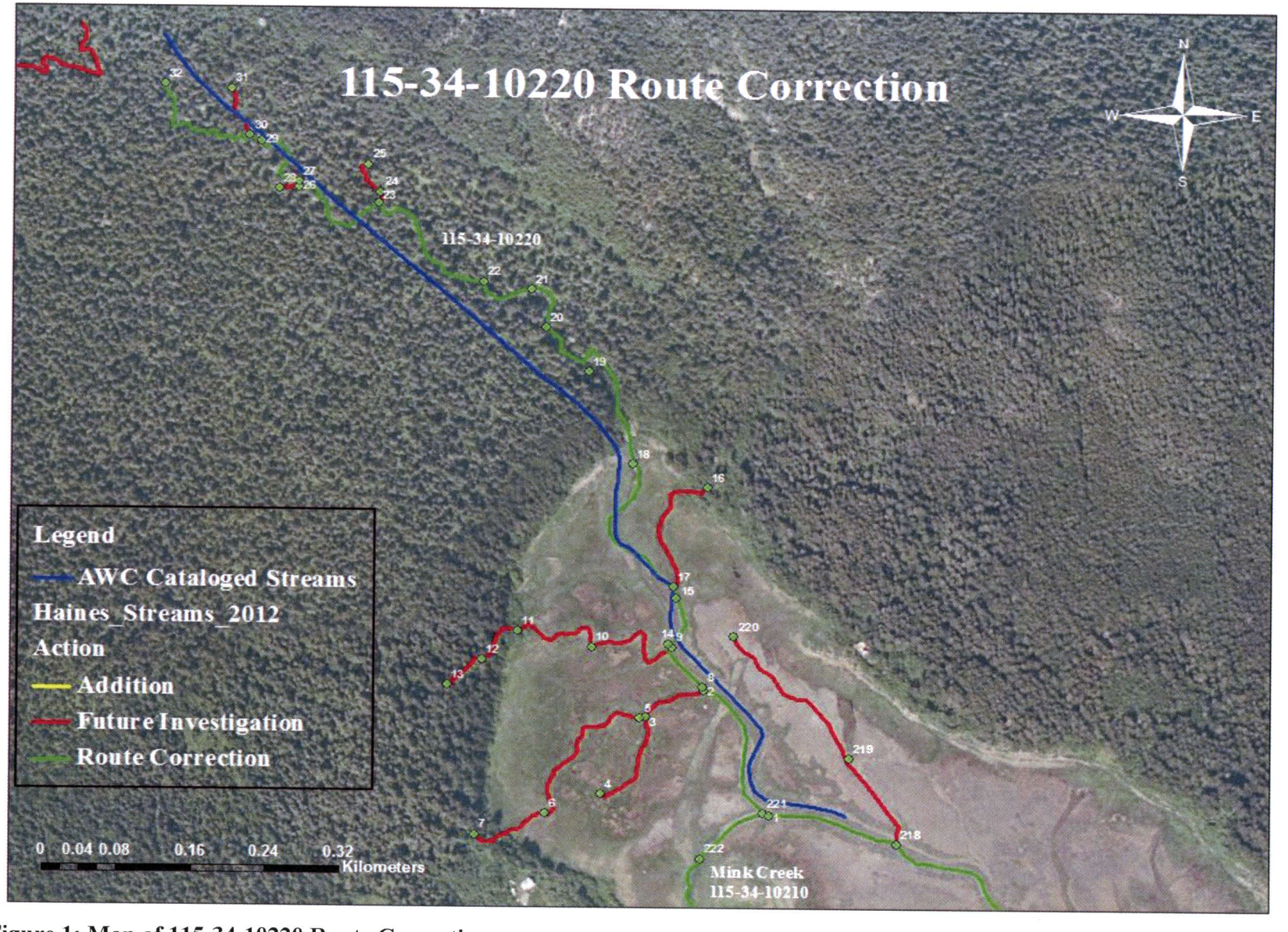
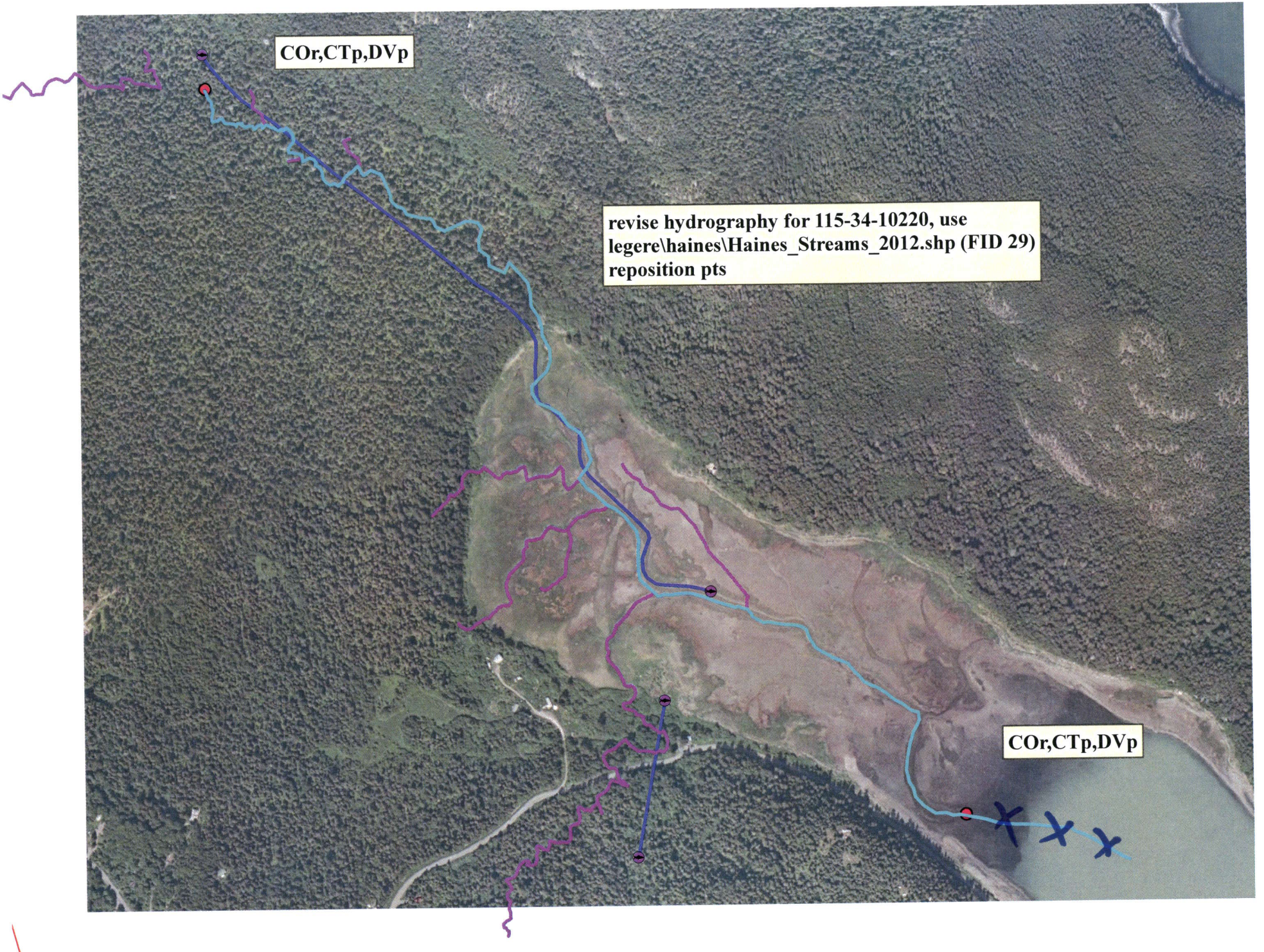


Figure 1: Map of 115-34-10220 Route Correction

Waypoints	lat	lon	ns1:time2	Notes	Sample Effort	Sample Results
217	59.153279	-135.347079	2012-07-20T17:43:37Z	Mouth of creek - fairly low gradient so channel isn't well defined - more broad and fanned out. Accidentally tracked from car - beginning track upstream.		
218	59.15812	-135.355095	2012-07-20T18:04:15Z	Possible tributary enters on river left. Photo 632 - begin tracking upstream.		
219	59.159071	-135.355605	2012-07-20T18:11:35Z	Handnetted two possible hailbut. Photos 633-634. Could also be sole.	Handnet	2 possible hailbut or sole
220	59.160522	-135.357187	2012-07-20T18:16:56Z	Stream ends just shy of grassy intertidal marsh. Photos 635. Heading back to the main channel.		
221	59.158697	-135.357402	2012-07-20T18:26:54Z	Tributary enters river right, beginning tracking and shocking up.		
222	59.158379	-135.358746	2012-07-20T18:36:05Z	Handnetted one Coho about 65mm. Photos 637 and 638 - interesting coloration.	Handnet	1 Coho about 65mm
223	59.157519	-135.35867	2012-07-20T18:45:36Z	Electrofished and got two Coho about 90mm. Electrofisher settings: 150v, 12% duty cycle and 30Hz.	Electrofisher	2 Coho about 90mm
224	59.157104	-135.35867	2012-07-20T18:58:58Z	Captured two Dolly Varden between 35-120mm and three Cutthroat between 40-170mm. Electrofished. Old culvert spans an abandoned road. Photos 641-645. Does not look to pose difficulty for fish passage.	Electrofisher	2 Dolly Varden between 35-120mm and 3 Cutthroat between 40-170mm
225	59.156842	-135.358354	2012-07-20T19:09:22Z	Electrofished and got one Coho about 110mm, three Cutthroat between 40-80mm, two Dolly Varden between 40-45mm.	Electrofisher	1 Coho about 110mm, 3 Cutthroat between 40-80mm and 2 Dolly Varden between 40-45mm
226	59.15657	-135.358395	2012-07-20T19:15:27Z	Electrofished and got three Cutthroat between 50-120mm, two Dolly Varden between 40-110mm, numerous sculpin and adjusted volts to 325V.	Electrofisher	3 Cutthroat between 50-120mm, 2 Dolly Varden between 40-110mm and Sculpin
227	59.156595	-135.358512	2012-07-20T19:19:19Z	Electrofished and got two Coho between 65-85mm and one Cutthroat about 100mm.	Electrofisher	2 Coho between 65-85mm and 1 Cutthroat about 100mm
228	59.156674	-135.359066	2012-07-20T19:23:26Z	Electrofished and got two Coho between 75-85mm and one Dolly Varden about 45mm and one Cutthroat about 65mm.	Electrofisher	2 Coho between 75-85mm, 1 Dolly Varden about 45mm and 1 Cutthroat about 65mm
229	59.156875	-135.359306	2012-07-20T19:26:13Z	Electrofished and got three Coho about 65-80mm and one Cutthroat about 60mm.	Electrofisher	3 Coho about 65-80mm and 1 Cutthroat about 60mm
230	59.156678	-135.360024	2012-07-20T19:31:56Z	Captured three Coho between 30-105mm, one Dolly Varden about 40mm, some Sculpin. Small Coho - see photos 652-653.	Electrofisher	3 Coho between 30-105mm, 1 Dolly Varden about 40mm and Sculpin
231	59.156444	-135.359853	2012-07-20T19:38:59Z	Captured with electrofisher four Cutthroat between 75-150mm at plunge pool of Mud Bay road culvert. Perched culvert about 6-8" perch. Looks like there once was a designed rock-surrounded, jump pool which would have provided fish passage by reducing perch. Talk to Jackie and Kate. Maybe we can re-build pool with nearby roots. Photos 654-657.	Electrofisher	4 Cutthroat between 75-150mm
232	59.156267	-135.359616	2012-07-20T19:46:32Z	Upstream side of culvert, some blockage. Photos 658-659. Maybe wise to remove some debris.		
233	59.156391	-135.359935	2012-07-20T19:51:38Z	Captured five Dolly Varden between 35-80mm, one Cutthroat about 45mm.	Electrofisher	5 Dolly Varden between 35-80mm and 1 Cutthroat about 45mm
234	59.156373	-135.359916	2012-07-20T19:57:13Z	Captured two Cutthroat between 105-110mm, one Dolly Varden about 40mm and continuing upstream.	Electrofisher	2 Cutthroat between 105-110mm and 1 Dolly Varden about 40mm
235	59.156236	-135.36049	2012-07-20T20:27:13Z	Captured three Cutthroat between 95-110mm and one Dolly Varden about 40mm.	Electrofisher	3 Cutthroat between 95-110mm and 1 Dolly Varden about 40mm
236	59.156147	-135.360532	2012-07-20T20:29:22Z	Small tributary enters on river right. Begin fishing and tracking up. Photos 660-661.		
237	59.155997	-135.360512	2012-07-20T20:33:02Z	Becomes forest with small stagnant channel. Very marginal fish habitat. Returning to main stem.		
238	59.156162	-135.361065	2012-07-20T20:42:33Z	Electrofished nine Dolly Varden between 30-110mm and three Cutthroat between 45-100mm.	Electrofisher	9 Dolly Varden between 30-110mm and 3 Cutthroat between 45-100mm
239	59.155953	-135.361312	2012-07-20T20:47:02Z	Five Cutthroat between 45-100mm, five Dolly Varden between 40-75mm. Habitat remains excellent with some potential spawning gravels and deep pools.	Electrofisher	5 Cutthroat between 45-100mm and 5 Dolly Varden between 40-75mm
240	59.155745	-135.361661	2012-07-20T20:51:38Z	Electrofished and got three Dolly Varden about 45-65 mm and one Cutthroat about 80mm.	Electrofisher	3 Dolly Varden between 45-65mm and 1 Cutthroat about 80mm
241	59.155748	-135.362337	2012-07-20T20:58:22Z	Electrofished and got four Dolly Varden between 40-80mm and one Cutthroat about 75mm.	Electrofisher	4 Dolly Varden between 40-80mm and 1 Cutthroat about 75mm
242	59.155637	-135.362817	2012-07-20T21:07:05Z	Captured four Cutthroat between 45-75mm.	Electrofisher	4 Cutthroat between 45-75mm
243	59.155498	-135.363525	2012-07-20T21:11:09Z	Small, steep tributary enters on river left. Will stay on mainstem. Shocked four Cutthroat between 50-80mm.	Electrofisher	4 Cutthroat between 50-80mm
244	59.154743	-135.363925	2012-07-20T21:36:26Z	Ending survey, channel begins to steepen slightly. Noticed a smell of dead fish so thought maybe other critters would be noticing it as well. Back to the van and it is hot! Wx: Blue skies and sunny!		

Waypoints	lat	lon	ns1:time2	Notes	Sample Effort	Sample Results
23	59.165583	-135.361832	2012-07-27T18:08:19Z	Trib entering river left has about half of flow. Tracking and shocking		
24	59.165684	-135.361756	2012-07-27T18:11:01Z	Electrofished 15% duty cycle, 30 Hz, 300 V. Got 2 DV about 40 mm	electrofish	2 DV ~ 40 mm
25	59.165983	-135.361857	2012-07-27T18:19:05Z	Calling the top of this trib. Water becomes seep and not much flow. Would recommend more invest. Later when more water		
26	59.165891	-135.363231	2012-07-27T18:41:22Z	Electrofished and got 2 cutthroat about 45 mm	electrofish	2 CT ~ 45 mm
27	59.165951	-135.363209	2012-07-27T18:43:24Z	Trib entering river right. Tracking and shocking		
28	59.165924	-135.363595	2012-07-27T18:46:35Z	Top of trib. Water just seeping out of the ground out of marsh area.		
29	59.166436	-135.363726	2012-07-27T18:57:56Z	Electrofished 1 cut ~ 40 mm and 1 DV ~ 25 mm	electrofish	1 CT ~ 40 mm, 1 DV ~ 25 mm
30	59.166515	-135.363909	2012-07-27T19:00:03Z	Trib. Entering river left, maybe Halibut Cove Creek hard to tell, track up		
31	59.167023	-135.364047	2012-07-27T19:09:23Z	Calling the top of water mentioned in WPT # 30. No more flow at this would need more rain in order to know if being used		
32	59.167202	-135.36524	2012-07-27T19:25:15Z	Calling the top of the river right reach mentioned in WPT # 30 there is little flow. Maybe come back later when more water.		

Waypoints	lat	lon	ns1:time2	Notes	Sample Effort	Sample Results
1	59.158663	-135.357309	2012-07-26T18:52:42Z	Confluence of trib to Halibut Cove Creek		
2	59.160053	-135.357964	2012-07-26T18:58:22Z	Trib R.R. Handnetted some STK...Good to be back in HNS	handnett	STK
3	59.15991	-135.359143	2012-07-26T19:03:39Z	Trib forks. Keeping RR to fork		
4	59.159223	-135.360284	2012-07-26T19:08:43Z	Stream ends in swampy seep in grassy tide flats.		
5	59.159905	-135.359245	2012-07-26T19:14:14Z	Back at fork of trib, leading up RL fork		
6	59.15915	-135.361376	2012-07-26T19:23:01Z	Tiny trib forks here...saw 2 toads! Many stickleback		
7	59.15908	-135.362742	2012-07-26T19:27:50Z	Attempting to E-fish the upper limit, none		
8	59.160084	-135.357969	2012-07-26T19:40:08Z	Back on main trib of Halibut Cove Creek		
9	59.160544	-135.35837	2012-07-26T19:42:57Z	Trib into main trib on RR stinky mud!!		
10	59.160713	-135.359827	2012-07-26T19:48:06Z	Trib forks, very still water. Taking RL branch		
11	59.161024	-135.361102	2012-07-26T19:58:07Z	E-Fished, nothing. Back into the trees		
12	59.160808	-135.361866	2012-07-26T20:05:13Z	Shocking pool, nothing.		
13	59.160628	-135.362609	2012-07-26T20:08:30Z	Ending survey. Very little water.		
14	59.160586	-135.358415	2012-07-26T20:20:11Z	Back @ main trib. Lovely breeze, sun incredible		
15	59.161029	-135.358073	2012-07-26T20:22:56Z	Trib entering on RL. Heading up		
16	59.162067	-135.357036	2012-07-26T20:30:28Z	E-fishing in forested trib, water clear and flowing. End survey here, very little water		
17	59.161148	-135.358073	2012-07-26T20:37:30Z	Back on mainstem trib		
18	59.162449	-135.358304	2012-07-26T20:45:05Z	Coho handnetted by Rick	handnett	CO
19	59.163463	-135.358705	2012-07-26T21:40:03Z	Fished 2 cutthroat	electrofish	2 CT
20	59.163995	-135.359307	2012-07-26T21:45:04Z	Captured 3 CT, 65-80 mm	electrofish	3 CT - 65-80
21	59.164402	-135.359411	2012-07-26T21:51:58Z	Captured 1 CO, 95 mm with positive ID of three more individuals	electrofish	1 CO-95 mm
22	59.164579	-135.360249	2012-07-26T22:00:39Z	Coho captured x 2 @ 100 mm. Very smolty!	electrofish	2 CO 100mm


COr,CTp,DVp
revise hydrography for 115-34-10220, use legere\haines\Haines_Streams_2012.shp (FID 29) reposition pts
COr,CTp,DVp