State of Alaska
Department of Fish and Game
Sportfish Division

Nomination Form
Anadromous Waters Catalog

ME

Region: Southeastern

USGS Quad(s): Juneau A-3

Anadromous Waters Catalog Number of Waterway: 111-41-10180-2030 – 3020

Name of Waterway: unnamed ☐ USGS Name ☐ Local Name

☑ Addition ☐ Deletion ☐ Correction ☐ Backup Information

For Office Use

Nomination #	13-630		
Revision Year:	2014	Fisheries Scientist	10/29/13 Date
Revision to: Atlas		Habitat Operations Manager	10/29/13 Date
Both	✓	AWC Project Biologist	10/7/13 Date
Revision Code:	B-6, A-2	Cartographer	11/27/13 Date

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
coho salmon	06/11/2013		✓		

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:

2 coho were caught at the unnamed green waypoint upstream of 275 in a minnow trap. See attached map, track shapefile and waypoint notes.
Coordinates (Lat,Long): Upper(-134.740,-58.153) Lower(-134.729,-58.153)

Extend coho salmon present in 111-41-10180, add new stream -2030 w/ coho salmon present, add new stream 2030-3020 w/ coho salmon rearing

Name of Observer (please print): Greg Albrecht

Signature: 146.63.61.200 (Web Nomination) Date: 09/30/2013

Agency:

Address: PO Box 110024
Juneau, AK 99811

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

Signature of Area Biologist: _____ Date: _____

Name of Area Biologist (please print):

Revision 02/08

MEMORANDUM

State of Alaska
Department of Fish and Game
Division of Habitat

TO: Jackie Timothy
Southeast Regional Supervisor

DATE: June 25, 2013

FILE NO:

THRU: Kate Kanouse
Habitat Biologist IV

SUBJECT: Fowler Creek Survey

FROM: Ben Brewster BB
Habitat Biologist I

PHONE NO: 907-465-6160

On June 10-11, 2013, Habitat Biologists Greg Albrecht, Johnny Zutz, and I, along with Dennis Reed of the USFS, traveled to the Greens Creek Mine on Admiralty Island near Juneau. The purpose of the trip was to investigate fish use and extent in Fowler Creek (Stream No. 111-41-10180, CHp, COp, Pp), Unnamed Creek (Stream No. 111-41-10180-2007, COp, Pp), and their tributaries (Figure 1). We used a combination of minnow traps baited with iodized salmon row and a Smith-Root LR-24 backpack electrofisher.

Fowler Creek

We captured 19 coho salmon (CO), 2 Dolly Varden char (DV), 2 cutthroat trout (CT), 1 rainbow trout (RT), 1 sculpin (SC), 1 threespine stickleback, and 1 lamprey (LP) ammocete (Photo 1) in Fowler Creek. We also captured 13 CO, 18 DV, 9 CT, 28 ST, 1 SC, and 1 non-anadromous western brook lamprey in four uncataloged tributaries to Fowler Creek.

Tributaries 1 and 2 are below the confluence of Fowler Creek and Unnamed Creek. We documented 2 coho (80-95mm) in Tributary 1 approximately 0.8 miles upstream of the mouth and we did not observe any barriers to migration (Photo 2). In Tributary 2, we captured 2 coho approximately 1 mile upstream from the mouth. The gradient began to increase upstream of where we captured coho for approximately 1 mile, and only DV and CT were captured.

In Tributary 3, we captured 1 western brook lamprey (125-135mm) approximately 0.25 mile upstream of the mouth and did not observe any barriers to fish migration (Photo 3). We also observed seven western brook lamprey (125-135mm) excavating redds in a calm side channel on Fowler Creek (Photo 4). Fowler Creek begins to increase in gradient near the current cataloged extent. See table 1 for a complete list of fish captures and locations.

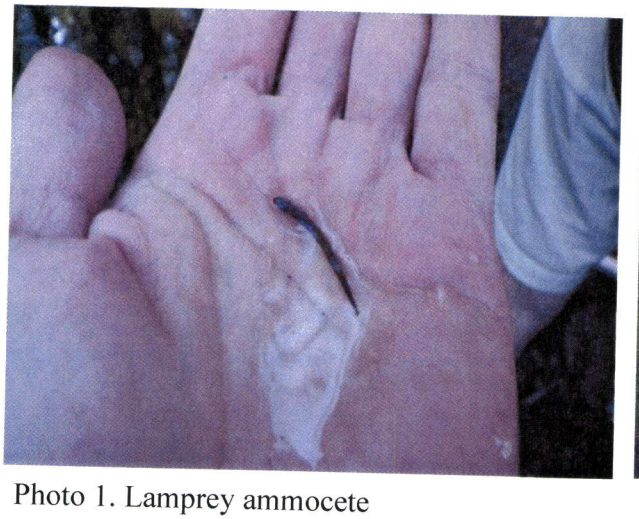


Photo 1. Lamprey ammocete

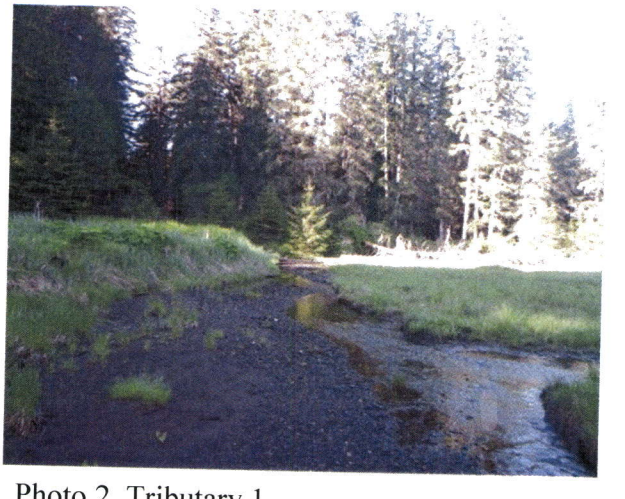


Photo 2. Tributary 1.

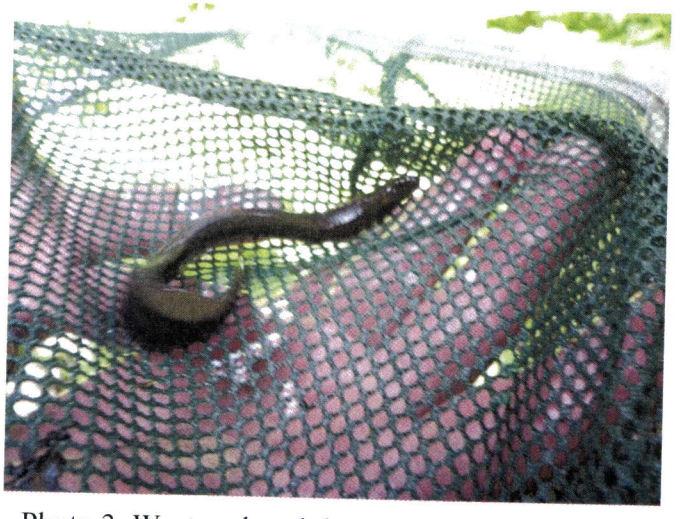


Photo 3. Western brook lamprey captured in a Fowler Creek tributary.

Photo 4. Western brook lamprey excavating redds in Fowler Creek.

We observed two beaver dam complexes that drain to Fowler Creek (Figure 1). We set 9 minnow traps in the "lower" beaver dam complex and 16 traps in the "upper" beaver dam complex. Both dams are about 4-5 feet tall (Photos 3-4). We captured seven coho (90-115mm) in the "upper" beaver dam complex. The furthest upstream coho we captured were approximately 0.4 mile downstream of where the complex crosses the A road (Photo 5). We observed several smaller beaver dams in the complex, which floods about a mile of wetlands, and did not observe any other potential barriers to fish migration. We also captured roughskin newts (Photo 6). In the "lower" beaver dam complex, we captured 28 threespine stickleback.

Photo 5. "Upper" beaver dam at the confluence of Fowler Creek.

Photo 6. "Lower" beaver dam complex.

Photo 7. Coho smolt captured in the upper beaver dam complex.

Photo 8. A roughskin newt captured in the "upper" beaver dam complex.

Unnamed Creek

We tracked Unnamed Creek approximately 1.25 miles below the current AWC catalog extent and captured 5 CO (80-95mm). We electrofished one minor tributary approximately 500 ft long and did not catch any fish.

Recommendations

I will update the anadromous waters catalog to include the new tributaries documented with coho salmon, and recommend further investigation of anadromous fish use and extent in Unnamed Creek, the new tributaries to Fowler Creek, and the "lower" beaver dam. A trip report from October 2012 documented cutthroat trout and Dolly Varden char upstream of where the "upper" beaver dam complex crosses the A road (Teal 2012).

Literature Cited

Teal, T. 2012. Memo: 2012 GCM Oct Fowler Creek Survey TR; dated 10/16/2012. Alaska Department of Fish and Game, Division of Habitat, Douglas, AK.

Email cc:

Al Ott, ADF&G Habitat, Fairbanks
Biologists, ADF&G Habitat, Juneau
Dan Teske, ADF&G SF, Juneau
Dave Harris, ADF&G CF, Juneau
Ryan Scott, ADF&G WC, Juneau
Steve Brockmann, USFWS, Juneau
Dennis Reed, USFS, Juneau
Sarah Samuelson, USFS, Juneau
Barb Adams, USFS, Juneau

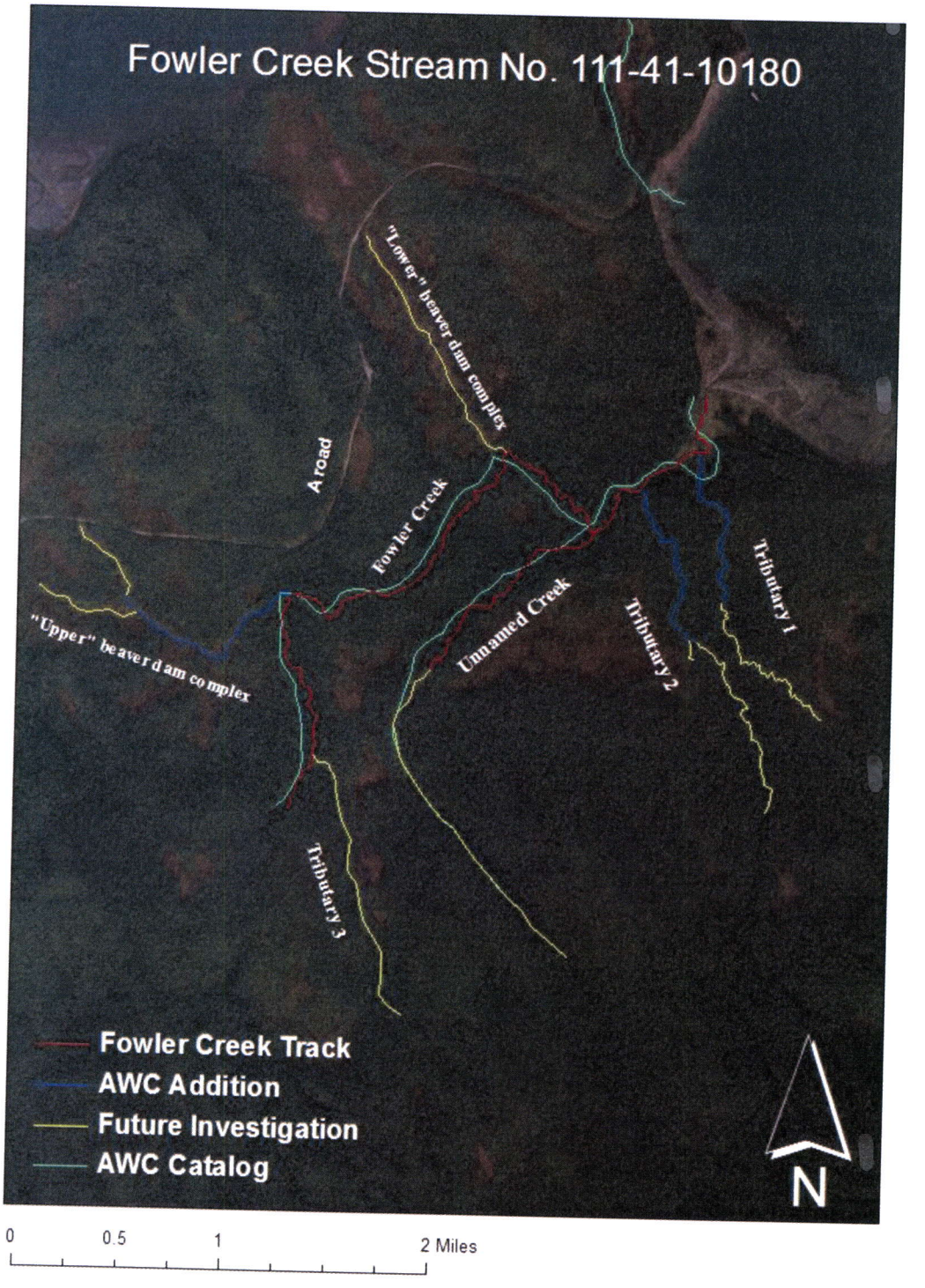


Figure 1. Fowler Creek and Unnamed Creek map

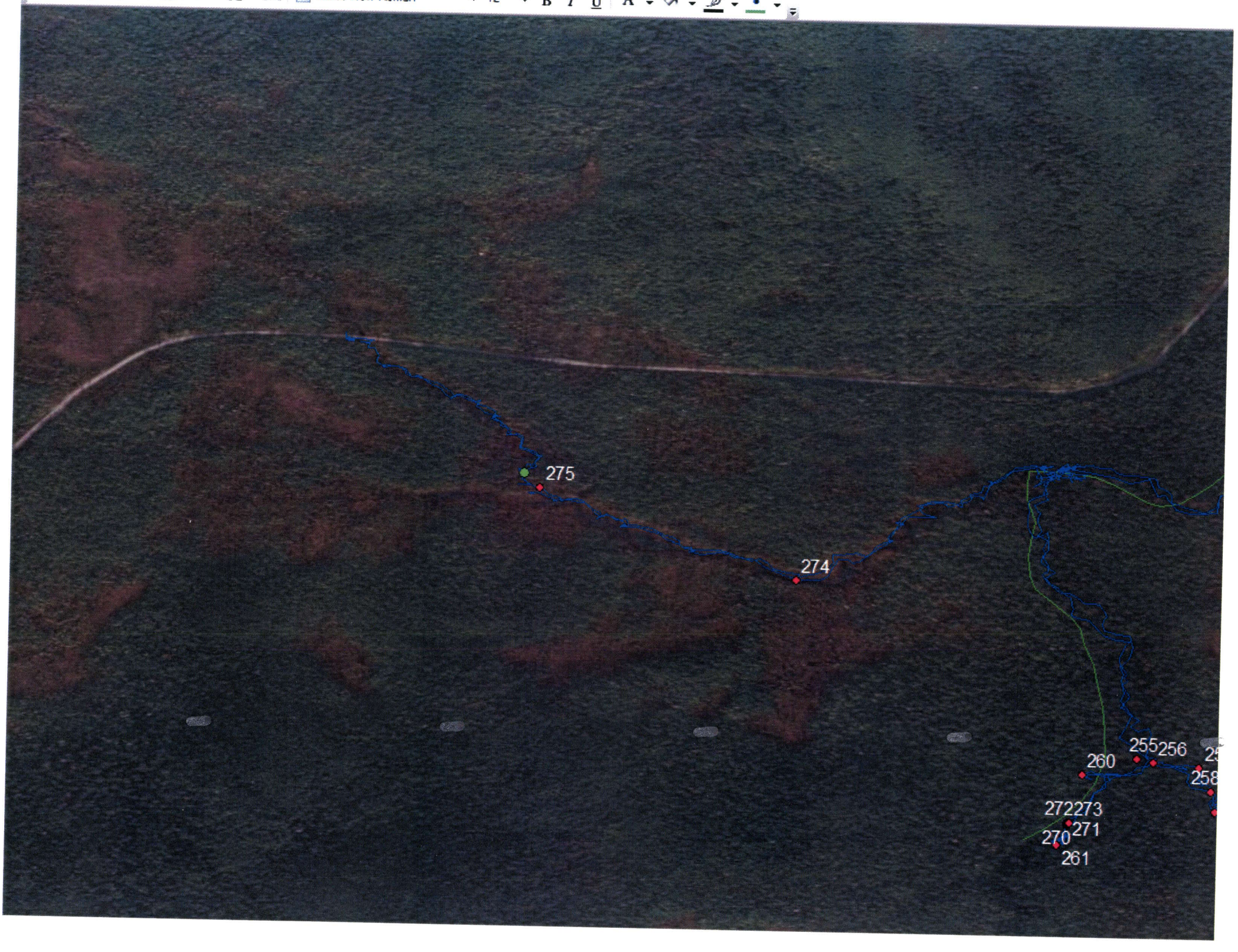
Table 1. Fish captured in Fowler Creek and tributaries July 6/10-6/11, 2013.

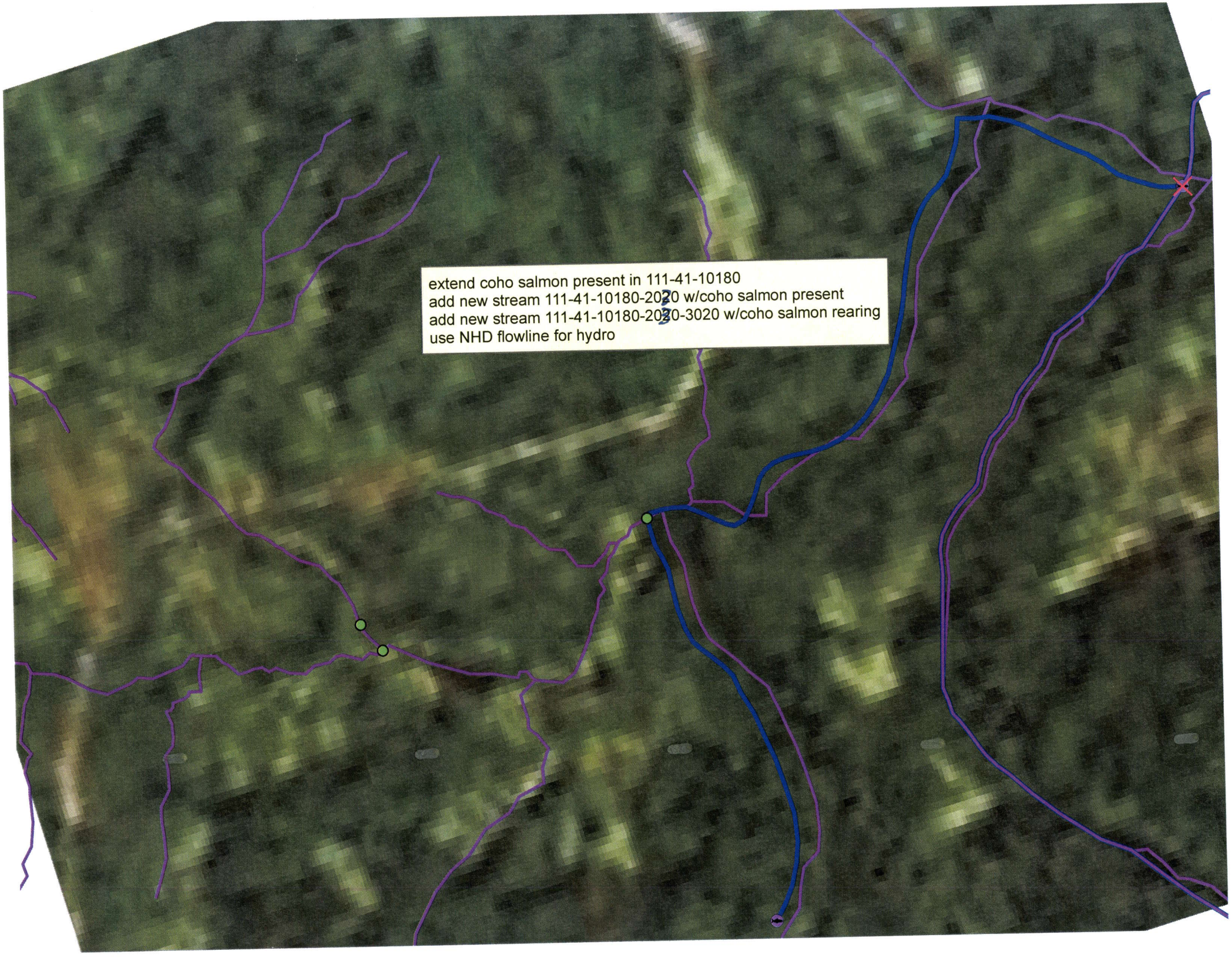
Waypoint	Latitude (°N)	Longitude (°W)	Site Description	Results
47	58.15722	134.704412	Near Mouth of Fowler Creek	2 CO (~35mm)
50	58.156627	134.708594	Above Confluence of Unnamed Creek	1 CO (~60mm)
51-53	58.158668	134.713885	At the base of lower beaver dam	2 CO (~35mm), 1 ST(~65mm)
54	58.15515	134.718129	Above lower beaver dam	1 CO (~25mm), 1 LP(~45mm)
55	58.153451	134.723188	Below upper beaver dam	1 CO (~25mm) 1 SC (~45mm)
56-60	58.153329	134.729341	Inlet from upper beaver dam	7 CO (~25-65mm)
61-65	58.147279	134.726671	All points above upper beaver dam in Fowler Creek	5 CO (~25-70mm) 2 DV (~55mm) 1 CT (~125mm)
66	58.153182	134.740154	Upper beaver dam complex .4 miles downstream of A road	2 CO (~115mm) 3 DV (~115mm) 1 CT (~110mm)
69	58.151957	134.737992	Upper beaver dam	4 DV (~140mm)
70	58.151477	134.736511	Upper beaver dam complex	2 rough-skinned newts
71-77	58.15324	134.792733	Upper beaver dam near Fowler Creek	5 CO (~100-110mm) 8 DV (~125mm) 5 CT (~125mm)
80	58.146757	134.725469	Tributary 3	1 CT (~65mm) 1 SC
81	58.146287	134.725277	Tributary 3	2 LP (~125mm)
260	58.145851	134.7284527	Fowler mainstem	7 LP (~125mm)
83	58.1454	134.728647	Near AWC extent	1 RT (~80mm)
230	58.148208	134.69299	Tributary 1 near mouth	2 CO
231	58.155293	134.698844	Tributary 1	2 CT
232	58.15315	134.698625	Tributary 1	2 CO
233-236	58.149102	134.691477	Tributary 1, gradient increases	3 DV
244-247	58.1456	134.695291	Tributary 2, gradient slowly increases	Lots of DV/CT
248	58.151829	134.700382	Tributary 2	2 CO

*Coho (CO), Dolly Varden char (DV), cutthroat trout (CT), rainbow trout (RT), lamprey (LP), Sculpin (SC), threespine stickleback (ST).

Date	Waypoint	Notes
10-Jun	230	2CO
	231	2CT
	232	2CO
	233	2DV Pic 2163
	234	Fork
	235	DV
	236	No barrier, further investigation could be warrented; however few fish present and high grad. Small channel. Pic 2164
	236	Cross country to this point. Upstream of fork. More water in this drainage, fished upstream a bit only CT and DV. Pic 2166
	237	CT
	238	DV
	239	DV CT
	240	CT, DV, Gradient increases, channel narrows towards incision. Further invest could be done, no barrier, but high conc. Of resident fish pic 2167
	241	DV, larger channel with some stepp pools. Nice wide gravel areas created by slides and LWD pics 2168-2170. ~4' falls complex pic 2169. headed upstream from this point
	242	CT, DV
	243	DV, CT pic 2171 CT
	244	Fished several hundred yards in this area and only CT and DV. Headed down to waypoint 241 for lunch: apple, PB&J, 1/2 mediterranean halibut wrap. Headed downstream from here
	245	several DV, step falls ~4'
	246	many DV. Pics upstream and downstream 2172 and 2173
	247	DV pic 2174
	248	2 coho pic
	249	DV pic 2174
	250	Main stem confluence. Snack: Granola bar
	251	No fishing effort, no tribs yet
	252	fished up to this fork, no fish. Fished small trib to south into muskeg area but did not waypoint the top. Possibly beaver activity higher above, but did not invest. DV present, very minimal flows
	253	Top of survey for the day. No fishing on this stem due to prior cataloging and many visually sighted coho fry
	254	CO shocked on the way down just to confirm visuals
11-Jun		pic 2177 on mainstem between beaver pond areas
	255	cobble, higher gradient
	256	tributary pic 2178
	257	CT, CO vis
	258	Lamprey Baby!
	259	CT end of survey pic 2179
	260	7 Lamprey
	261	Top of survey, 5% grad RBT
	274	Newts!
	275	Fork, other trib should be investigated
		Pic 2180 estuary Fowler Creek, seconds before Bears!

Drawing Times New Roman 12




extend coho salmon present in 111-41-10180
add new stream 111-41-10180-2020 w/coho salmon present
add new stream 111-41-10180-2020-3020 w/coho salmon rearing
use NHD flowline for hydro