State of Alaska
Department of Fish and Game
Division of Sport Fish

Nomination Form
Anadromous Waters Catalog

ME

Region: Southeast

USGS Quad(s): B-3 NW Skagway B-3, B-4

AWC Number of Water Body: 115-32-10250-2077-3061

Name of Water body: Herman Creek ☒ USGS Name ☐ Local Name

☒ Addition ☐ Deletion ☐ Correction ☐ Backup Information

For Office Use

Nomination #: 140382

Revision Year: 2015

Revision to: Atlas ____ Catalog ____ Both X

Revision Code: B-2

James J Hasbrouck	Fisheries Scientist	10/3/2014 Date
	Habitat Operations Manager	10/3/14 Date
	AWC Project Biologist	9/24/14 Date
	GIS Analyst	10/8/14 Date

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Coho	8-2-11		X		☒
					☐
					☐
					☐
					☐

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

Add coho salmon REARing to creek

Name of Observer (please print): Daniel Schultz

Signature:

Agency: Takshanuk Watershed Council

Address: P.O. Box 1029
Haines Ak 99827

Date: 9-17-14

ALASKA DEPT. OF FISH & GAME

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.

SEP 23 2014

Signature of Area Biologist:

Name of Area Biologist (please print):

Date: 9/23/2014

Revision 11/13

Alaska Sustainable Salmon Fund
Semiannual Performance Report

I. Project Identifiers

AKSSF Project Number:	45970
Project Title:	Haines Salmon Habitat Assessment – Year 3
Principal Investigator:	Brad Ryan, Executive Director Takshanuk Watershed Council (TWC) PO Box 1029 Haines, AK 99827 Phone: (907) 766-3542 Email: brad.ryan@gmail.com
ADF&G Contact:	Richard Chapell; (907) 766-2625
PCSRF Objective:	HP&R
Congressionally Designated:	no
Project Period:	Start: 7/1/11 End: 9/30/12
Reporting Period:	5/1/11 – 10/31/11
Expenditures thru 10/31/11:	$0 of $32,638
Date Prepared:	11/15/2011

II. Synopsis

This project is a continuation of a salmon distribution assessment in the Chilkat, Chilkoot, and Ferebee watersheds. Takshanuk Watershed Council (TWC) will trap, count, and identify fish in local streams of importance in order to identify and nominate streams for inclusion in the State of Alaska's *Catalog of Waters Important for the Spawning, Rearing or Migration of Anadromous Fishes* and its associated Atlas (AWC). Listing in the AWC is an essential step to ensuring statutory protection of streams. By increasing the number of listed streams, the project will increase the protection and knowledge of salmon distribution and habitat. A secondary effort will be made to increase life-stage specific knowledge of habitat usage on streams currently catalogued simply as 'species present' as time and funding allows.

III. Summary of Progress, Results, and Problems

The fish distribution work concentrated on Sawmill and One-Mile Creeks, two of our most urbanized fish bearing streams in Haines. .25 miles of stream were surveyed on Sawmill Creek which resulted in .16 miles of stream being nominated to the Alaska Anadromous Waters Catalog (AWC). .93 miles of stream were surveyed on One-Mile Creek which resulted in .50 miles of stream being nominated to the AWC. TWC will be concentrating their efforts on the project during the summer of 2012.

Alaska Sustainable Salmon Fund
Semiannual Performance Report

I. Project Identifiers

AKSSF Project Number:	45976
Project Title:	Porcupine Area Salmon Assessment
Principal Investigator:	Brad Ryan, Executive Director Takshanuk Watershed Council PO Box 1029 Haines, AK 99827 Phone: (907) 766-3542 Email: brad.ryan@takshanuk.org
ADF&G Contact:	Richard Chapell; 766-2625
PCSRF Objective:	HP&R
Congressionally Designated:	no
Project Period:	Start: 7/1/11 End: 11/30/12
Reporting Period:	5/1/11 – 10/31/11
Expenditures thru 10/31/11:	$0 of $48,948
Date Prepared:	11/15/2011

II. Synopsis

The Takshanuk Watershed Council (TWC) will conduct a salmon distribution assessment in the Klehini River watershed in and around the Porcupine Mining District near Haines. TWC will trap, count, and identify fish in local streams of importance in order to identify and nominate streams for the State of Alaska's *Catalog of Waters Important for the Spawning, Rearing, or Migration of Anadromous Fishes* and its associated Atlas (AWC). Listing in the AWC is an essential step to ensuring statutory protection of fish habitat. TWC will also gather water quality data for baseline information on anadromous streams as well as springs and ponds affecting these streams in the project area.

III. Summary of Progress, Results, and Problems

TWC completed two sessions of their quarterly fish distribution surveys. TWC set minnow traps in Herman, Cave, Porcupine, Bear, Glacier, and Sarah Creeks in July and then again in late October of 2011. These traps were placed along the fish bearing portions of these creeks and left overnight and pulled out the next day. The fish captured were identified and measured and then released. Visual observations were also made during these trips to spot adult fish returning to spawn or capture juvenile fish that weren't captured by the traps. In some instances, especially in July, some of the juvenile fish were too small for the traps and could swim right through the mesh of the traps so a dip net was used to capture these small fish. The locations of these traps were also recorded and then the complete information package was reproduced on GIS maps.

The first round of water quality testing was performed during the first week of November. The same streams that were fish trapped (Herman, Cave, Porcupine, Bear, Glacier, and Sarah Creeks) plus the Little Jarvis Creek and two locations on the Klehini River, one above the study site and one below were also tested for a variety of water

quality parameters. The water samples were tested for dissolved and total metals (As, Ba, Cd, Cr, Cu, Fe, Pb, Se, Ag, Zn, Mn, Al, and Na), total suspended solids, hardness (Ca & Mg), Hg (dissolved and total), and sulfate. These samples were taken over the course of 2 days and immediately sent to Test America in Tacoma, WA for analysis.

Alaska Sustainable Salmon Fund
Project Completion Report

AKSSF Project Number: 45329
Project Title: Upper Chilkoot Watershed Assessment
Principal Investigator:

Brad Ryan
Takshanuk Watershed Council
P. O. Box 1029
Haines, AK 99827

Co-Principal Investigator/ Project Manager:

Brad Ryan, Executive Director
Takshanuk Watershed Council
PO Box 1029
Haines, AK 99827
Phone: (907) 766-3542
Email: brad.ryan@takshanuk.org

Total Funding: $29951
Congressionally Designated: No
Project Period: Start: 07/01/10 End: 06/30/11

Project Objectives:

The primary objective of this project is to find and protect all known and unknown salmon habitat in the Upper Chilkoot Valley.

Preliminary Synopsis:

This project analyzed the location and patterns of salmonid species in the Upper Chilkoot Valley, one of two major watersheds supporting subsistence fisheries in the Haines area. The work continued previous assessment work by the Takshanuk Watershed Council (TWC) that focused on the lower portion of the Chilkoot Valley; this project will expand the geographic scope of the work and complete mapping of the Anadromous Waters Catalog (AWC) in the valley. *This project expands on the cataloging and characterization work begun in AKSSF projects 45825 and 45959.*

Final Synopsis:

This project identified the upper extent of anadromous water of the Chilkoot River and its tributaries. This work continued previous assessment work by TWC that focused on the lower portion of the Chilkoot Valley. Field technicians for TWC walked all accessible tributaries and set minnow traps and used dip nets to determine the fish species that use these waters. The extent of fish habitat was determined to be 9 miles upriver of the north end of Chilkoot Lake 0.3 miles past a major fork that ended in a 200+ foot waterfall of one fork and a chasm with step pool drops in excess of 20 feet in the other. From these points downstream approximately 1 mile only Dolly Vardens were captured. Continuing down from this point (8 miles upriver of Chilkoot Lake), juvenile Coho salmon were found in the Chilkoot River and in most tributaries.

Project Activities and Results:

Objective 1: Complete mapping of wetlands and the mainstem and tributaries of the Chilkoot River from the north end of Chilkoot Lake to the northern end of fish habitat:

All accessible tributaries and wetlands to the Chilkoot River were mapped. Access to these places were mostly on foot with multiple backpacking trips up the "glory hole" road that runs up the West side of the river. To access the upper reaches and tributaries, a helicopter was contracted to drop field crews for 5 days to complete fish trapping and mapping. Accessibility was only denied by high water levels of the Chilkoot River for crossing to access streams on the east side of the river. Later on in the project Alpaca Pack Rafts were used to access some of these sites but time limited a chance to access all of these streams.

Objective 2: Complete mapping of fish distribution throughout the upper Chilkoot Valley.

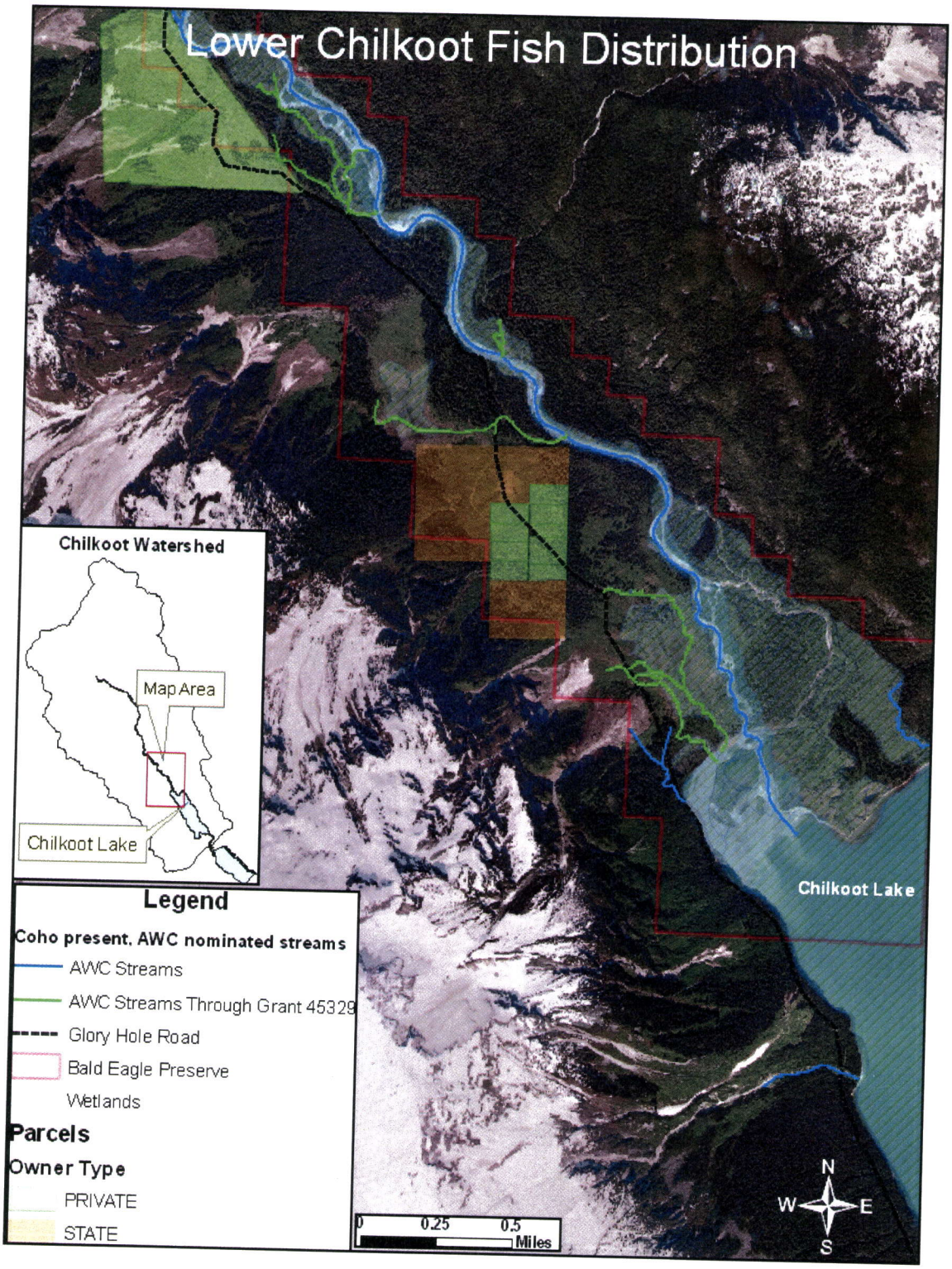
All accessible tributaries and wetlands that were mapped were also trapped for juvenile fish. A concerted effort was taken to access these streams. Multiple backpacking trips were taken and a helicopter was used to gain access to the upper most fish bearing streams. Fish distribution maps are attached.

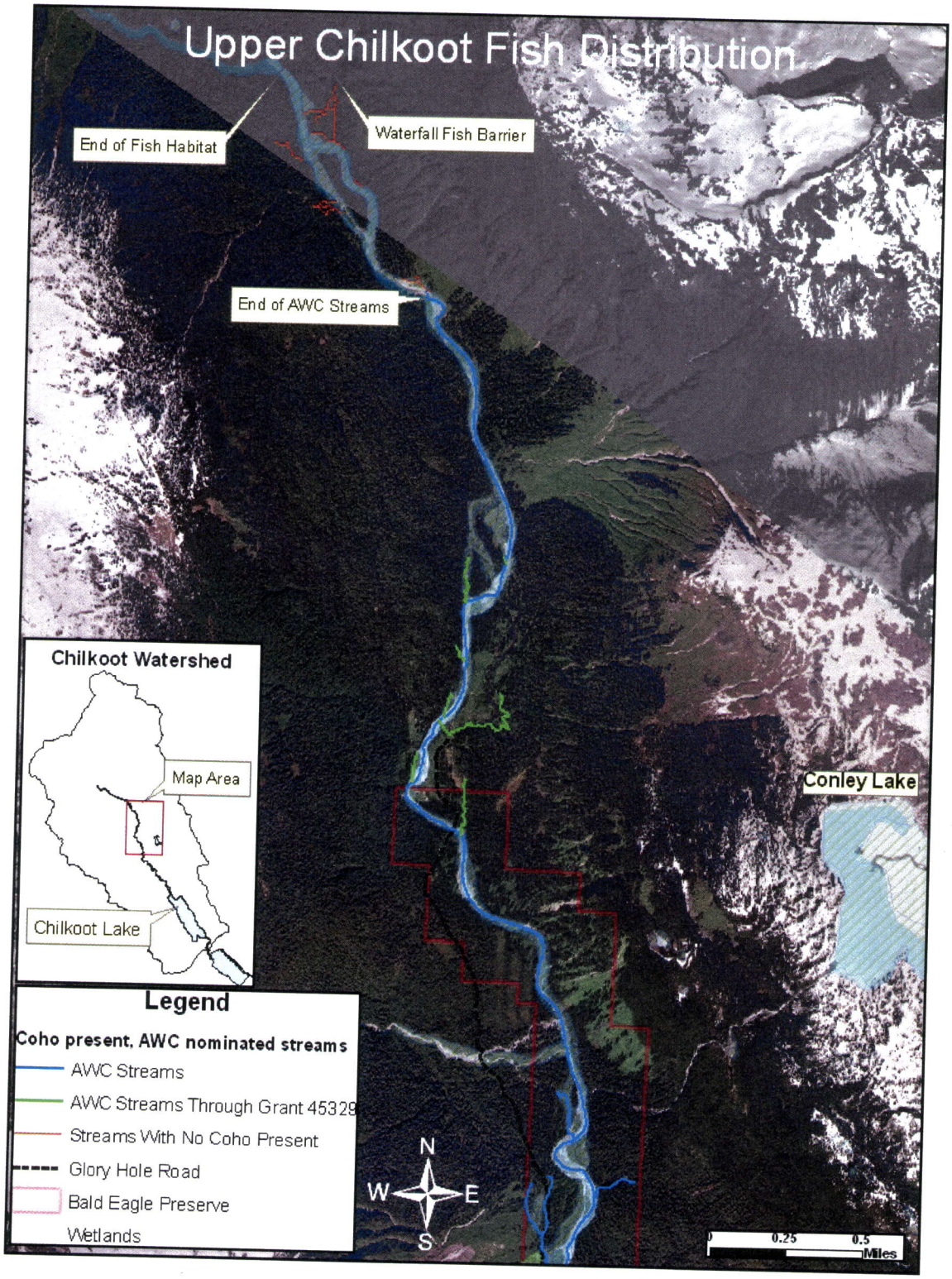
Objective 3: Characterization of stream reaches to add to the baseline data for a GIS model in predicting anadromous waters.

Many of the same streams that were mapped and trapped were also characterized in accordance to the Alaska Department of Fish and Game Sport Fish Region I Stream Survey Guide. The GIS model this data was going to be used for has been deemed infeasible at this time. More research and expertise would be needed to pick this side project up again.

Reports and Other Products:

The primary product of this project is the listing of anadromous streams in the AWC. In addition, TWC has created GIS maps of fish distribution of the Upper Chilkoot River along with significant points of interest.


Lower Chilkoot Fish Distribution
Chilkoot Watershed
Map Area
Chilkoot Lake
Chilkoot Lake
Legend
Coho present, AWC nominated streams
AWC Streams
AWC Streams Through Grant 45329
Glory Hole Road
Bald Eagle Preserve
Wetlands
Parcels
Owner Type
PRIVATE
STATE
0 0.25 0.5 Miles
N
W
E
S


Upper Chilkoot Fish Distribution
End of Fish Habitat
Waterfall Fish Barrier
End of AWC Streams
Chilkoot Watershed
Map Area
Chilkoot Lake
Conley Lake
Legend
Coho present, AWC nominated streams
AWC Streams
AWC Streams Through Grant 45328
Streams With No Coho Present
Glory Hole Road
Bald Eagle Preserve
Wetlands
N
W
E
S
0.25
0.5
Miles

ADF&G permit no. SF2011-127

Summary report of fish collection activity.

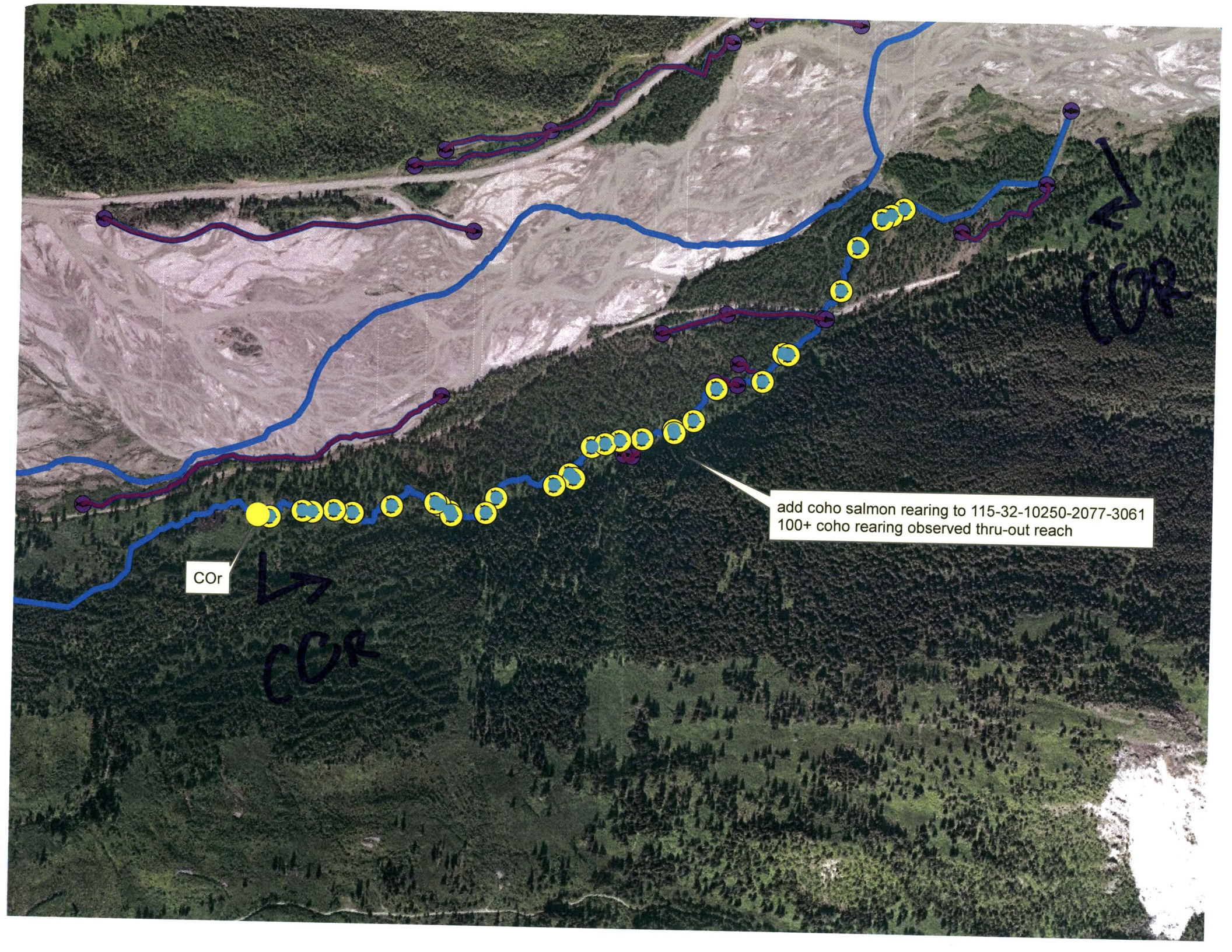
The area biologist was contacted on: May 10 2011 10:00am

Location ID (optional)	Latitude	Longitude	Datum	Coordinate determination method	Name of water body	Date	Observer name (first name, middle initial, last name)	Fish collection method	Species	Life stage	Length (mm) No estimates/ranges	Length method	Weight (g)	Sex	Age	Age method	ADF&G GCL	Additional count (1)	Disposition (1)	Additional count (2)	Disposition (2)	Comments
1	59.46563526	-135.71919294	WGS84	GPS	Chilkoot River/Tributary	6/16/2011	Jeremy Taylor, Eric Stevens	Minnow Trap	Dolly Varden		100											
2	59.46561347	-135.71933518	WGS84	GPS	Chilkoot River/Tributary	6/16/2011	Jeremy Taylor, Eric Stevens	Minnow Trap	Dolly Varden		120											
3	59.46515280	-135.72011679	WGS84	GPS	Chilkoot River/Tributary	6/16/2011	Jeremy Taylor, Eric Stevens	Minnow Trap	Dolly Varden		70							2				
4	59.46477201	-135.72138783	WGS84	GPS	Chilkoot River/Tributary	6/16/2011	Jeremy Taylor, Eric Stevens	Minnow Trap	no fish collected or observed													
5	59.46473773	-135.72142697	WGS84	GPS	Chilkoot River/Tributary	6/16/2011	Jeremy Taylor, Eric Stevens	Minnow Trap	no fish collected or observed													
6	59.46434084	-135.71678381	WGS84	GPS	Chilkoot River/Tributary	6/16/2011	Jeremy Taylor, Eric Stevens	Minnow Trap	no fish collected or observed													
7	59.46401856	-135.71626447	WGS84	GPS	Chilkoot River/Tributary	6/16/2011	Jeremy Taylor, Eric Stevens	Minnow Trap	no fish collected or observed													
8	59.46401948	-135.71626321	WGS84	GPS	Chilkoot River/Tributary	6/16/2011	Jeremy Taylor, Eric Stevens	Minnow Trap	no fish collected or observed													
9	59.46327668	-135.71582635	WGS84	GPS	Chilkoot River/Tributary	6/16/2011	Jeremy Taylor, Eric Stevens	Minnow Trap	no fish collected or observed													
10	59.46296453	-135.71584437	WGS84	GPS	Chilkoot River/Tributary	6/16/2011	Jeremy Taylor, Eric Stevens	Minnow Trap	no fish collected or observed													
14	59.46481803	-135.72144440	WGS84	GPS	Chilkoot River/Tributary	6/17/2011	Jeremy Taylor, Eric Stevens	Minnow Trap	Dolly Varden		70											
15	59.46518985	-135.71912245	WGS84	GPS	Chilkoot River/Tributary	6/17/2011	Jeremy Taylor, Eric Stevens	Minnow Trap	Dolly Varden		70							2				
16	59.46517685	-135.71912035	WGS84	GPS	Chilkoot River/Tributary	6/17/2011	Jeremy Taylor, Eric Stevens	Minnow Trap	Dolly Varden		50							3				1 with orange fins, length range from 50-80mm
17	59.46298742	-135.71578603	WGS84	GPS	Chilkoot River/Tributary	6/17/2011	Jeremy Taylor, Eric Stevens	Minnow Trap	no fish collected or observed									3				
18	59.46137994	-135.71200839	WGS84	GPS	Chilkoot River/Tributary	6/17/2011	Eric Stevens, Meredith R Pochardt	Minnow Trap	no fish collected or observed													
20	59.46154950	-135.71230008	WGS84	GPS	Chilkoot River/Tributary	6/17/2011	Eric Stevens, Meredith R Pochardt	Minnow Trap	no fish collected or observed													
22	59.46165528	-135.71281859	WGS84	GPS	Chilkoot River/Tributary	6/17/2011	Eric Stevens, Meredith R Pochardt	Minnow Trap	Dolly Varden		60											
23	59.46175989	-135.71295714	WGS84	GPS	Chilkoot River/Tributary	6/17/2011	Eric Stevens, Meredith R Pochardt	Minnow Trap	no fish collected or observed													Fork in stream
26	59.46172410	-135.71363876	WGS84	GPS	Chilkoot River/Tributary	6/17/2011	Eric Stevens, Meredith R Pochardt	Minnow Trap	no fish collected or observed													
28	59.46198720	-135.71359349	WGS84	GPS	Chilkoot River/Tributary	6/17/2011	Eric Stevens, Meredith R Pochardt	Minnow Trap	Dolly Varden													
30	59.46208418	-135.71443135	WGS84	GPS	Chilkoot River/Tributary	6/17/2011	Eric Stevens, Meredith R Pochardt	Minnow Trap	no fish collected or observed													
32	59.46272339	-135.71479755	WGS84	GPS	Chilkoot River/Tributary	6/17/2011	Eric Stevens, Meredith R Pochardt	Minnow Trap	Dolly Varden													
35	59.46290058	-135.71395165	WGS84	GPS	Chilkoot River/Tributary	6/17/2011	Eric Stevens, Meredith R Pochardt	Minnow Trap	no fish collected or observed													
38	59.46194136	-135.71319208	WGS84	GPS	Chilkoot River/Tributary	6/17/2011	Eric Stevens, Meredith R Pochardt	Minnow Trap	no fish collected or observed													Points 18-36 are all one stream, 37-46 = another fork
39	59.46213062	-135.71305295	WGS84	GPS	Chilkoot River/Tributary	6/17/2011	Eric Stevens, Meredith R Pochardt	Minnow Trap	no fish collected or observed													
40	59.46237881	-135.71303568	WGS84	GPS	Chilkoot River/Tributary	6/17/2011	Eric Stevens, Meredith R Pochardt	Minnow Trap	no fish collected or observed													
43	59.46311625	-135.71314313	WGS84	GPS	Chilkoot River/Tributary	6/17/2011	Eric Stevens, Meredith R Pochardt	Minnow Trap	no fish collected or observed													
49	59.46368672	-135.71309913	WGS84	GPS	Chilkoot River/Tributary	6/17/2011	Eric Stevens, Meredith R Pochardt	Minnow Trap	no fish collected or observed													
50	59.46351917	-135.71332636	WGS84	GPS	Chilkoot River/Tributary	6/18/2011	Eric Stevens, Meredith R Pochardt	Minnow Trap	no fish collected or observed													
52	59.46315891	-135.71396414	WGS84	GPS	Chilkoot River/Tributary	6/18/2011	Eric Stevens, Meredith R Pochardt	Minnow Trap	no fish collected or observed													
54	59.46202861	-135.71495279	WGS84	GPS	Chilkoot River/Tributary	6/18/2011	Eric Stevens, Meredith R Pochardt	Minnow Trap	no fish collected or observed													
5	59.45512804	-135.70398155	WGS84	GPS		6/16/2011	Daniel J Schultz, Meredith R Pochardt	Minnow Trap	Dolly Varden		60											Points 47-53 are all one creek, 47 is fish barrier (waterfall)
8	59.45523667	-135.70441078	WGS84	GPS		6/16/2011	Daniel J Schultz, Meredith R Pochardt	Minnow Trap	Dolly Varden		110							3				Length of the 3 was 30,60,100mm
9	59.45531337	-135.70497681	WGS84	GPS		6/16/2011	Daniel J Schultz, Meredith R Pochardt	Minnow Trap	Dolly Varden		50											
12	59.45530591	-135.70563479	WGS84	GPS		6/16/2011	Daniel J Schultz, Meredith R Pochardt	Minnow Trap	no fish collected or observed									9				Length range 50-60mm, behind beaver pond
15	59.45471850	-135.70322441	WGS84	GPS	Tributary of Chilkoot	6/16/2011	Daniel J Schultz, Meredith R Pochardt	Minnow Trap	Dolly Varden		50											
16	59.45518739	-135.70403737	WGS84	GPS		6/16/2011	Daniel J Schultz, Meredith R Pochardt	Minnow Trap	Dolly Varden		60							9				Length range 50-60mm
18	59.45545242	-135.70439067	WGS84	GPS		6/16/2011	Daniel J Schultz, Meredith R Pochardt	Minnow Trap	Dolly Varden		60											
19	59.45548637	-135.70461078	WGS84	GPS		6/16/2011	Daniel J Schultz, Meredith R Pochardt	Minnow Trap	no fish collected or observed									4				Length range 25-70mm, side stream of chilkoot River
21	59.45972367	-135.71035305	WGS84	GPS		6/16/2011	Daniel J Schultz, Meredith R Pochardt	Minnow Trap	no fish collected or observed													
24	59.45991277	-135.71075538	WGS84	GPS		6/16/2011	Daniel J Schultz, Meredith R Pochardt	Minnow Trap	no fish collected or observed													
26	59.46001033	-135.71074490	WGS84	GPS		6/16/2011	Daniel J Schultz, Meredith R Pochardt	Minnow Trap	Dolly Varden		60											
28	59.46075800	-135.71603112	WGS84	GPS		6/16/2011	Daniel J Schultz, Meredith R Pochardt	Minnow Trap	Dolly Varden		50											
31	59.46080276	-135.71634536	WGS84	GPS		6/17/2011	Jeremy C Taylor, Daniel J Schultz	Minnow Trap	Dolly Varden		50							3				Length range from 50-60mm
34	59.46093285	-135.71659841	WGS84	GPS		6/17/2011	Jeremy C Taylor, Daniel J Schultz	Minnow Trap	Dolly Varden		60							3				Length range from 50-60mm
35	59.46091474	-135.71682078	WGS84	GPS		6/17/2011	Jeremy C Taylor, Daniel J Schultz	Minnow Trap	Dolly Varden		50							7				Length range from 40-90mm
39	59.46122278	-135.71706285	WGS84	GPS		6/17/2011	Jeremy C Taylor, Daniel J Schultz	Minnow Trap	Dolly Varden		60							9				Length range from 50-110mm
42	59.46129436	-135.71722420	WGS84	GPS		6/17/2011	Jeremy C Taylor, Daniel J Schultz	Minnow Trap	Dolly Varden		50							5				Length range from 60-70mm
44	59.46153098	-135.71717986	WGS84	GPS		6/17/2011	Jeremy C Taylor, Daniel J Schultz	Minnow Trap	Dolly Varden		75							2				Length range from 50-90mm
49	59.46135529	-135.71760331	WGS84	GPS		6/17/2011	Jeremy C Taylor, Daniel J Schultz	Minnow Trap	Dolly Varden		70							2				
52	59.46123099	-135.71783298	WGS84	GPS		6/17/2011	Jeremy C Taylor, Daniel J Schultz	Minnow Trap	Dolly Varden		60							2				Length range from 75-100mm
56	59.46156065	-135.71827043	WGS84	GPS		6/17/2011	Jeremy C Taylor, Daniel J Schultz	Minnow Trap	no fish collected or observed													
59	59.46061291	-135.71542771	WGS84	GPS		6/17/2011	Jeremy C Taylor, Daniel J Schultz	Minnow Trap	Dolly Varden		100											
60	59.45940005	-135.71337934	WGS84	GPS	Tributary of Chilkoot	6/18/2011	Jeremy C Taylor, Daniel J Schultz	Minnow Trap	Dolly Varden		80											
61	59.45881113	-135.71244660	WGS84	GPS		6/18/2011	Jeremy C Taylor, Daniel J Schultz	Minnow Trap	Dolly Varden		95							3				Length range from 80-120mm
63	59.45885128	-135.71281624	WGS84	GPS		6/18/2011	Jeremy C Taylor, Daniel J Schultz	Minnow Trap	Dolly Varden		70							2				Length range from 95-110mm
69	59.45835264	-135.71195567	WGS84	GPS		6/18/2011	Jeremy C Taylor, Daniel J Schultz	Minnow Trap	Dolly Varden		100							15				Length range from 45-110mm
75	59.45844091	-135.71233336	WGS84	GPS		6/18/2011	Jeremy C Taylor, Daniel J Schultz	Minnow Trap	no fish collected or observed													2nd trib of Chilkoot, clean water
80	59.45843588	-135.71277777	WGS84	GPS		6/18/2011	Jeremy C Taylor, Daniel J Schultz	Minnow Trap	no fish collected or observed													
86	59.45828693	-135.71327616	WGS84	GPS		6/18/2011	Jeremy C Taylor, Daniel J Schultz	Minnow Trap	no fish collected or observed													
94	59.45852355	-135.71398803	WGS84	GPS		6/18/2011	Jeremy C Taylor, Daniel J Schultz	Minnow Trap	no fish collected or observed													
109	59.45854425	-135.71295270	WGS84	GPS		6/18/2011	Jeremy C Taylor, Daniel J Schultz	Minnow Trap	no fish collected or observed													
112	59.45847829	-135.71241944	WGS84	GPS		6/18/2011	Jeremy C Taylor, Daniel J Schultz	Minnow Trap	no fish collected or observed													
32	59.23781488	-135.45219563	WGS84	GPS	Sawmill Creek	9/27/2011	Daniel J. Schultz	Minnow Trap	coho salmon	juvenile	100	Fork						3				photo 130-281, 282
32	59.23781488	-135.45219563	WGS84	GPS	Sawmill Creek	9/27/2011	Daniel J. Schultz	Minnow Trap	cutthroat trout	juvenile	80	Fork						3				photo 130-285, 284
36	59.23786920	-135.45228356	WGS84	GPS	Sawmill Creek	9/27/2011	Daniel J. Schultz	Minnow Trap	coho salmon	juvenile	65	Fork										photo 285
40	59.23798252	-135.45231633	WGS84	GPS	Sawmill Creek	9/27/2011	Daniel J. Schultz	Minnow Trap	coho salmon	juvenile	75	Fork										
49	59.23833163	-135.45238397	WGS84	GPS	Sawmill Creek	9/27/2011	Daniel J. Schultz	Minnow Trap	coho salmon	juvenile	90	Fork										
49	59.23833163	-135.45238397	WGS84	GPS	Sawmill Creek	9/27/2011	Daniel J. Schultz	Minnow Trap	cutthroat trout	juvenile	110	Fork						2				photo 287
52	59.23841050	-135.45238372	WGS84	GPS	Sawmill Creek	9/27/2011	Daniel J. Schultz	Minnow Trap	cutthroat trout	juvenile	110	Fork						2				
55	59.23852609	-135.45237877	WGS84	GPS	Sawmill Creek	9/27/2011	Daniel J. Schultz	Minnow Trap	coho salmon	juvenile	90	Fork						3				
55	59.23852609	-135.45237877	WGS84	GPS	Sawmill Creek	9/27/2011	Daniel J. Schultz	Minnow Trap	cutthroat trout	juvenile	110	Fork						3				photo 288
61	59.23880084	-135.45214534	WGS84	GPS	Sawmill Creek	9/27/2011	Daniel J. Schultz	Minnow Trap	coho salmon	juvenile	90	Fork										
61	59.23880084	-135.45214534	WGS84	GPS	Sawmill Creek	9/27/2011	Daniel J. Schultz	Minnow Trap	cutthroat trout	juvenile	110	Fork						5				photo 289
67	59.23892716	-135.45201961	WGS84	GPS	Sawmill Creek	9/27/2011	Daniel J. Schultz	Minnow Trap	coho salmon	juvenile	80	Fork						2				
67	59.23892716	-135.45201961	WGS84	GPS	Sawmill Creek	9/27/2011	Daniel J. Schultz	Minnow Trap	cutthroat trout	juvenile	90	Fork						3				photo 290
79	59.23893546	-135.45131117	WGS84	GPS	Sawmill Creek	9/27/2011	Daniel J. Schultz	Minnow Trap	cutthroat trout	juvenile	85	Fork						2				
87	59.23919546	-135.45130807	WGS84	GPS	Sawmill Creek	9/27/2011	Daniel J. Schultz	Minnow Trap	coho salmon	juvenile	95	Fork										photo 291
87	59.23919546	-135.45130807	WGS84	GPS	Sawmill Creek	9/27/2011	Daniel J. Schultz	Minnow Trap	cutthroat trout	juvenile	100	Fork						2				photo 292, 293
105	59.23935715	-135.45089065	WGS84	GPS	Sawmill Creek	9/27/2011	Daniel J. Schultz	Minnow Trap	no fish collected or observed	juvenile		Fork										
123	59.23981003	-135.45118980	WGS84	GPS	Sawmill Creek	9/27/2011	Daniel J. Schultz	Minnow Trap	cutthroat trout	juvenile	90	Fork						3				photo 294, 295
151	59.21078165	-135.43079127	WGS84	GPS	One-Mile Creek	9/27/2011	Daniel J. Schultz	Minnow Trap	cutthroat trout	juvenile	120	Fork						1				
151	59.21078165	-135.43079127	WGS84	GPS	One-Mile Creek	9/27/2011	Daniel J. Schultz	Minnow Trap	Dolly Varden	juvenile	95	Fork						1				
171	59.21062348	-135.43052564	WGS84	GPS	One-Mile Creek	9/27/2011	Daniel J. Schultz	Minnow Trap	cutthroat trout	juvenile	85	Fork										
171	59.21062348	-135.43052564	WGS84	GPS	One-Mile Creek	9/27/2011	Daniel J. Schultz	Minnow Trap	Dolly Varden	juvenile	80	Fork										
177	59.21061795	-135.43076528	WGS84	GPS	One-Mile Creek	9/27/2011	Daniel J. Schultz	Minnow Trap	no fish collected or observed	juvenile		Fork										
183	59.21073689	-135.43051559	WGS84	GPS	One-Mile Creek	9/27/2011	Daniel J. Schultz	Minnow Trap	coho salmon	juvenile	45	Fork										
183	59.21073689	-135.43051559	WGS84	GPS	One-Mile Creek	9/27/2011	Daniel J. Schultz	Minnow Trap	cutthroat trout	juvenile	65	Fork										
193	59.21103160	-135.42992986	WGS84	GPS	One-Mile Creek	9/27/2011	Daniel J. Schultz	Minnow Trap	cutthroat trout	juvenile	90	Fork										
197	59.21119857	-135.43011610	WGS84	GPS	One-Mile Creek	9/27/2011	Daniel J. Schultz	Minnow Trap	coho salmon	juvenile	75	Fork										
197	59.21119857	-135.43011610	WGS84	GPS	One-Mile Creek	9/27/2011	Daniel J. Schultz	Minnow Trap	cutthroat trout	juvenile	110	Fork										photo 302, 303
206	59.21155597	-135.43033269	WGS84	GPS	One-Mile Creek	9/27/2011	Daniel J. Schultz	Minnow Trap	cutthroat trout	juvenile	100	Fork						1				
206	59.21155597	-135.43033269	WGS84	GPS	One-Mile Creek	9/27/2011	Daniel J. Schultz	Minnow Trap	Dolly Varden	juvenile	100	Fork						1				
																		3				

224	59.21229961	-135.43020085	WGS84	GPS	One-Mile Creek	9/27/2011	Daniel J. Schultz	Minnow Trap	Dolly Varden	juvenile	120	Fork		
224	59.21229961	-135.43020085	WGS84	GPS	One-Mile Creek	9/27/2011	Daniel J. Schultz	Minnow Trap	cutthroat trout	juvenile	80	Fork	1	
256	59.21312548	-135.42848507	WGS84	GPS	One-Mile Creek	9/27/2011	Daniel J. Schultz	Minnow Trap	cutthroat trout	juvenile	90	Fork		photo 301
266	59.21309749	-135.42799942	WGS84	GPS	One-Mile Creek	9/27/2011	Daniel J. Schultz	Minnow Trap	cutthroat trout	juvenile	75	Fork		
272	59.21468091	-135.42878632	WGS84	GPS	One-Mile Creek	9/27/2011	Daniel J. Schultz	Minnow Trap	cutthroat trout	juvenile	120	Fork		
276	59.21462542	-135.42895387	WGS84	GPS	One-Mile Creek	9/27/2011	Daniel J. Schultz	Minnow Trap	cutthroat trout	juvenile	100	Fork	1	photo 299, 300
291	59.21440121	-135.42959894	WGS84	GPS	One-Mile Creek	9/27/2011	Daniel J. Schultz	Minnow Trap	cutthroat trout	juvenile	100	Fork		
311	59.21396191	-135.43031425	WGS84	GPS	One-Mile Creek	9/27/2011	Daniel J. Schultz	Minnow Trap	cutthroat trout	juvenile	55	Fork		
318	59.21384239	-135.43073243	WGS84	GPS	One-Mile Creek	9/27/2011	Daniel J. Schultz	Minnow Trap	no fish collected or observed	juvenile		Fork		
330	59.21343637	-135.43121195	WGS84	GPS	One-Mile Creek	9/27/2011	Daniel J. Schultz	Minnow Trap	no fish collected or observed	juvenile		Fork		
343	59.21306505	-135.43144916	WGS84	GPS	One-Mile Creek	9/27/2011	Daniel J. Schultz	Minnow Trap	Dolly Varden	juvenile	120	Fork	1	
353	59.21284737	-135.43198091	WGS84	GPS	One-Mile Creek (*Holgate)	9/27/2011	Daniel J. Schultz	Minnow Trap	coho salmon	juvenile	95	Fork		photo 297, 298
353	59.21284737	-135.43198091	WGS84	GPS	One-Mile Creek	9/27/2011	Daniel J. Schultz	Minnow Trap	cutthroat trout	juvenile	120	Fork		
358	59.21281611	-135.43201159	WGS84	GPS	One-Mile Creek (*Holgate)	9/27/2011	Daniel J. Schultz	Minnow Trap	coho salmon	juvenile	90	Fork	6	photo 296
358	59.21281611	-135.43201159	WGS84	GPS	One-Mile Creek	9/27/2011	Daniel J. Schultz	Minnow Trap	Dolly Varden	juvenile	85	Fork	2	
660	59.21351	-135.43121	WGS84	GPS	One-Mile Creek (*Holgate)	11/11/2010	Daniel J. Schultz	Visual Observation, Ground	coho salmon	adult				
998	59.21099	-135.43141	WGS84	GPS	One-Mile Creek	10/6/2010	Daniel J. Schultz	Visual Observation, Ground	coho salmon	adult				
999	59.21274	-135.43319	WGS84	GPS	One-Mile Creek (*Holgate)	10/6/2010	Daniel J. Schultz	Visual Observation, Ground	coho salmon	adult			9	
363	59.42756105	-136.32130846	WGS84	GPS	Sarah Creek	10/17/2011	Daniel J. Schultz	Minnow Trap	coho salmon	juvenile	60		6	photo 314, 315
363	59.42756105	-136.32130846	WGS84	GPS	Sarah Creek	10/17/2011	Daniel J. Schultz	Minnow Trap	Dolly Varden	juvenile	90		2	
364	59.42850972	-136.32688067	WGS84	GPS	Sarah Creek	10/17/2011	Daniel J. Schultz	Minnow Trap	coho salmon	juvenile	55			
364	59.42850972	-136.32688067	WGS84	GPS	Sarah Creek	10/17/2011	Daniel J. Schultz	Visual Observation, Ground	coho salmon	adult			5	
364	59.42850972	-136.32688067	WGS84	GPS	Sarah Creek	10/17/2011	Daniel J. Schultz	Minnow Trap	Dolly Varden	juvenile	45		2	
365	59.42884985	-136.32842629	WGS84	GPS	Sarah Creek	10/17/2011	Daniel J. Schultz	Minnow Trap	coho salmon	juvenile	55		13	photo 312, 313
365	59.42884985	-136.32842629	WGS84	GPS	Sarah Creek	10/17/2011	Daniel J. Schultz	Visual Observation, Ground	coho salmon	adult			1	
365	59.42884985	-136.32842629	WGS84	GPS	Sarah Creek	10/17/2011	Daniel J. Schultz	Minnow Trap	Dolly Varden	juvenile	75			
366	59.42896619	-136.32918008	WGS84	GPS	Sarah Creek	10/17/2011	Daniel J. Schultz	Minnow Trap	coho salmon	juvenile	60			
366	59.42896619	-136.32918008	WGS84	GPS	Sarah Creek	10/17/2011	Daniel J. Schultz	Minnow Trap	Dolly Varden	juvenile	55		2	
366	59.42896619	-136.32918008	WGS84	GPS	Sarah Creek	10/17/2011	Daniel J. Schultz	Visual Observation, Ground	Dolly Varden	adult				
367	59.42939484	-136.33126005	WGS84	GPS	Sarah Creek	10/17/2011	Daniel J. Schultz	Minnow Trap	coho salmon	juvenile	60		8	photo 310, 311
367	59.42939484	-136.33126005	WGS84	GPS	Sarah Creek	10/17/2011	Daniel J. Schultz	Minnow Trap	Dolly Varden	juvenile	65			
368	59.42921329	-136.33063668	WGS84	GPS	Sarah Creek	10/17/2011	Daniel J. Schultz	Minnow Trap	Dolly Varden	juvenile	75		2	
369	59.42872463	-136.33247727	WGS84	GPS	Sarah Creek	10/17/2011	Daniel J. Schultz	Minnow Trap	Dolly Varden	juvenile	50		2	
370	59.42866118	-136.33312846	WGS84	GPS	Sarah Creek	10/17/2011	Daniel J. Schultz	Minnow Trap	cutthroat trout	juvenile	85			photo 309
370	59.42866118	-136.33312846	WGS84	GPS	Sarah Creek	10/17/2011	Daniel J. Schultz	Minnow Trap	Dolly Varden	juvenile	55		1	
371	59.42864492	-136.33342325	WGS84	GPS	Sarah Creek	10/17/2011	Daniel J. Schultz	Visual Observation, Ground	coho salmon	adult			1	
371	59.42864492	-136.33342325	WGS84	GPS	Sarah Creek	10/17/2011	Daniel J. Schultz	Minnow Trap	Dolly Varden	juvenile	75		1	
372	59.42861902	-136.33403077	WGS84	GPS	Sarah Creek	10/17/2011	Daniel J. Schultz		no fish collected or observed					
373	59.42861801	-136.33403345	WGS84	GPS	Sarah Creek	10/17/2011	Daniel J. Schultz		no fish collected or observed					
374	59.42848532	-136.33432372	WGS84	GPS	Sarah Creek	10/17/2011	Daniel J. Schultz		no fish collected or observed					
375	59.42578551	-136.31047737	WGS84	GPS	Little Sarah Creek	10/17/2011	Daniel J. Schultz	Minnow Trap	Dolly Varden	juvenile	75		6	
376	59.42570496	-136.30395843	WGS84	GPS	Glacier Creek	10/17/2011	Daniel J. Schultz		no fish collected or observed					
377	59.42441708	-136.30318101	WGS84	GPS	Glacier Creek	10/17/2011	Daniel J. Schultz	Minnow Trap	cutthroat trout	juvenile	85			photo 316, 317
377	59.42441708	-136.30318101	WGS84	GPS	Glacier Creek	10/17/2011	Daniel J. Schultz	Minnow Trap	Dolly Varden	juvenile	95		3	
378	59.42371778	-136.30232396	WGS84	GPS	Glacier Creek	10/17/2011	Daniel J. Schultz	Minnow Trap	cutthroat trout	juvenile	90			photo 318
378	59.42371778	-136.30232396	WGS84	GPS	Glacier Creek	10/17/2011	Daniel J. Schultz	Minnow Trap	Dolly Varden	juvenile	90		1	
379	59.42284774	-136.30216839	WGS84	GPS	Glacier Creek	10/17/2011	Daniel J. Schultz	Minnow Trap	Dolly Varden	juvenile	70		1	
380	59.42035848	-136.29769874	WGS84	GPS	Glacier Creek	10/17/2011	Daniel J. Schultz	Minnow Trap	cutthroat trout	juvenile	90			
380	59.42035848	-136.29769874	WGS84	GPS	Glacier Creek	10/17/2011	Daniel J. Schultz	Minnow Trap	Dolly Varden	juvenile	90			
381	59.41934285	-136.29812437	WGS84	GPS	Glacier Creek	10/17/2011	Daniel J. Schultz	Minnow Trap	Dolly Varden	juvenile	80			
382	59.41759296	-136.30140505	WGS84	GPS	Glacier Creek	10/17/2011	Daniel J. Schultz		no fish collected or observed					
383	59.41648277	-136.30433159	WGS84	GPS	Glacier Creek	10/17/2011	Daniel J. Schultz	Minnow Trap	cutthroat trout	juvenile	110		1	photo 319, 320
383	59.41648277	-136.30433159	WGS84	GPS	Glacier Creek	10/17/2011	Daniel J. Schultz	Minnow Trap	Dolly Varden	juvenile	90			
384	59.42670375	-136.22055271	WGS84	GPS	Porcupine Creek	10/17/2011	Daniel J. Schultz	Minnow Trap	Dolly Varden	juvenile	70			
385	59.42619589	-136.22147514	WGS84	GPS	Porcupine Creek	10/17/2011	Daniel J. Schultz	Minnow Trap	Dolly Varden	juvenile	80		38	
386	59.42582608	-136.22188811	WGS84	GPS	Porcupine Creek	10/17/2011	Daniel J. Schultz	Minnow Trap	Dolly Varden	juvenile	80		1	
387	59.42559105	-136.22179767	WGS84	GPS	Porcupine Creek	10/17/2011	Daniel J. Schultz	Minnow Trap	Dolly Varden	juvenile	100			
388	59.42527413	-136.22204687	WGS84	GPS	Porcupine Creek	10/17/2011	Daniel J. Schultz	Minnow Trap	Dolly Varden	juvenile	90			
389	59.42420779	-136.22281549	WGS84	GPS	Porcupine Creek	10/17/2011	Daniel J. Schultz	Minnow Trap	no fish collected or observed					
390	59.42742552	-136.22099175	WGS84	GPS	Bear Creek	10/18/2011	Daniel J. Schultz	Minnow Trap	Dolly Varden	juvenile	60		1	small coho swimming around also
391	59.42754588	-136.22170455	WGS84	GPS	Bear Creek	10/18/2011	Daniel J. Schultz	Minnow Trap	no fish collected or observed					
392	59.42732711	-136.22232372	WGS84	GPS	Bear Creek	10/18/2011	Daniel J. Schultz	Minnow Trap	no fish collected or observed					
393	59.42702604	-136.22223051	WGS84	GPS	Bear Creek	10/18/2011	Daniel J. Schultz	Minnow Trap	coho salmon	juvenile	55		1	
393	59.42702604	-136.22223051	WGS84	GPS	Bear Creek	10/18/2011	Daniel J. Schultz	Minnow Trap	Dolly Varden	juvenile	45		2	
394	59.42635012	-136.22265036	WGS84	GPS	Bear Creek	10/18/2011	Daniel J. Schultz	Minnow Trap	coho salmon	juvenile	60		2	photo 331, 332
395	59.42632279	-136.22348688	WGS84	GPS	Bear Creek	10/18/2011	Daniel J. Schultz	Minnow Trap	coho salmon	juvenile	50			photo 329, 330
395	59.42632279	-136.22348688	WGS84	GPS	Bear Creek	10/18/2011	Daniel J. Schultz	Minnow Trap	Dolly Varden	juvenile	90		6	
396	59.42642958	-136.22457535	WGS84	GPS	Bear Creek	10/18/2011	Daniel J. Schultz	Visual Observation, Ground	coho salmon	adult				
397	59.42649529	-136.22546333	WGS84	GPS	Bear Creek	10/18/2011	Daniel J. Schultz	Minnow Trap	no fish collected or observed					
398	59.42651088	-136.22624092	WGS84	GPS	Bear Creek	10/18/2011	Daniel J. Schultz	Minnow Trap	coho salmon	juvenile	60		20	photo 327, 328
398	59.42651088	-136.22624092	WGS84	GPS	Bear Creek	10/18/2011	Daniel J. Schultz	Minnow Trap	Dolly Varden	juvenile	120		2	
399	59.42612448	-136.22684215	WGS84	GPS	Bear Creek	10/18/2011	Daniel J. Schultz	Minnow Trap	Dolly Varden	juvenile	55		3	
400	59.42606220	-136.22723074	WGS84	GPS	Bear Creek	10/18/2011	Daniel J. Schultz	Minnow Trap	coho salmon	juvenile	60		79	photo 324, 325, 326 beaver pond
401	59.42589674	-136.22754615	WGS84	GPS	Bear Creek	10/18/2011	Daniel J. Schultz	Minnow Trap	coho salmon	juvenile	60		86	photo 322, 323
401	59.42589674	-136.22754615	WGS84	GPS	Bear Creek	10/18/2011	Daniel J. Schultz	Minnow Trap	Dolly Varden	juvenile	60			
402	59.42561922	-136.22807429	WGS84	GPS	Bear Creek	10/18/2011	Daniel J. Schultz	Visual Observation, Ground	coho salmon	adult			1	
403	59.42527355	-136.22893763	WGS84	GPS	Bear Creek	10/18/2011	Daniel J. Schultz	Minnow Trap	no fish collected or observed					2 traps above 4 ft beaver dam
404	59.41747134	-136.11504802	WGS84	GPS	Cave Creek	10/19/2011	Daniel J. Schultz	Minnow Trap	coho salmon	juvenile	70		6	photto 340
405	59.41792849	-136.12162035	WGS84	GPS	Cave Creek	10/19/2011	Daniel J. Schultz	Minnow Trap	coho salmon	juvenile	80		11	photo 339
406	59.41816393	-136.12249416	WGS84	GPS	Cave Creek	10/19/2011	Daniel J. Schultz	Minnow Trap	coho salmon	juvenile	80		2	photo 337, 338
406	59.41816393	-136.12249416	WGS84	GPS	Cave Creek	10/19/2011	Daniel J. Schultz	Minnow Trap	Dolly Varden	juvenile	70			
407	59.41905149	-136.12687773	WGS84	GPS	Cave Creek	10/19/2011	Daniel J. Schultz	Minnow Trap	coho salmon	juvenile	70		1	photo 336
407	59.41905149	-136.12687773	WGS84	GPS	Cave Creek	10/19/2011	Daniel J. Schultz	Minnow Trap	Dolly Varden	juvenile	100			
408	59.41910757	-136.12789814	WGS84	GPS	Cave Creek	10/19/2011	Daniel J. Schultz	Minnow Trap	coho salmon	juvenile	70		3	photo 334, 335
409	59.41920530	-136.12876198	WGS84	GPS	Cave Creek	10/19/2011	Daniel J. Schultz	Minnow Trap	coho salmon	juvenile	90		1	photo 333
409	59.41920530	-136.12876198	WGS84	GPS	Cave Creek	10/19/2011	Daniel J. Schultz	Minnow Trap	Dolly Varden	juvenile	90			
410	59.41986009	-136.13107723	WGS84	GPS	Cave Creek	10/19/2011	Daniel J. Schultz	Minnow Trap	no fish collected or observed					
411	59.42011951	-136.13329852	WGS84	GPS	Cave Creek	10/19/2011	Daniel J. Schultz	Minnow Trap	Dolly Varden	juvenile	90			
412	59.41732365	-136.10949727	WGS84	GPS	Cave Creek	10/19/2011	Daniel J. Schultz	Minnow Trap	no fish collected or observed					
413	59.41733127	-136.10835557	WGS84	GPS	Cave Creek	10/19/2011	Daniel J. Schultz	Minnow Trap	no fish collected or observed					
414	59.41411975	-136.06605261	WGS84	GPS	Herman Creek	10/19/2011	Daniel J. Schultz	Minnow Trap	Dolly Varden	juvenile	100		1	
415	59.41397650	-136.06680471	WGS84	GPS	Herman Creek	10/19/2011	Daniel J. Schultz	Minnow Trap	coho salmon	juvenile	55		2	
415	59.41397650	-136.06680471	WGS84	GPS	Herman Creek	10/19/2011	Daniel J. Schultz	Visual Observation, Ground	coho salmon	adult				
416	59.41345800	-136.06806703	WGS84	GPS	Herman Creek	10/19/2011	Daniel J. Schultz	Minnow Trap	coho salmon	juvenile	60		3	photo 3873
417	59.41287311	-136.07263491	WGS84	GPS	Herman Creek	10/19/2011	Daniel J. Schultz	Minnow Trap	coho salmon	juvenile	65		1	
418	59.41284930	-136.07415020	WGS84	GPS	Herman Creek	10/19/2011	Daniel J. Schultz	Minnow Trap	coho salmon	juvenile	65		1	
419	59.41295994	-136.07650895	WGS84	GPS	Herman Creek	10/19/2011	Daniel J. Schultz	Minnow Trap	coho salmon	juvenile	60		22	
419	59.41295994	-136.07650895	WGS84	GPS	Herman Creek	10/19/2011	Daniel J. Schultz	Minnow Trap	Dolly Varden	juvenile	60			
420	59.41246172	-136.07782247	WGS84	GPS	Herman Creek	10/19/2011	Daniel J. Schultz	Minnow Trap	coho salmon	juvenile	60		11	photo 3872

421	59.41233910	-136.08141529	WGS84	GPS	Herman Creek	10/19/2011	Daniel J. Schultz	Minnow Trap	coho salmon	juvenile	60			15	
422	59.41231286	-136.08369618	WGS84	GPS	Herman Creek	10/19/2011	Daniel J. Schultz	Minnow Trap	coho salmon	juvenile	65			12	
423	59.41250942	-136.08406314	WGS84	GPS	Herman Creek	10/19/2011	Daniel J. Schultz	Minnow Trap	coho salmon	juvenile	55			13	photo 3871
434	59.41293824	-136.07516767	WGS84	GPS	Herman Creek	10/19/2011	Daniel J. Schultz	Visual Observation, Ground	coho salmon	adult					photo 3870
424	59.41276515	-136.08621561	WGS84	GPS	Herman Creek	10/19/2011	Daniel J. Schultz	Minnow Trap	coho salmon	juvenile	50				
425	59.41283732	-136.08805368	WGS84	GPS	Herman Creek	10/19/2011	Daniel J. Schultz	Minnow Trap	coho salmon	juvenile	60				photo 3868, 3869 beaver pond
426	59.41301124	-136.08885298	WGS84	GPS	Herman Creek	10/19/2011	Daniel J. Schultz	Minnow Trap	coho salmon	juvenile	65			9	photo 3866, 3867 beaver pond
427	59.41286447	-136.08987590	WGS84	GPS	Herman Creek	10/19/2011	Daniel J. Schultz	Minnow Trap	no fish collected or observed						photo 3863, 3864, 3865 beaver pond
428	59.41300521	-136.09006969	WGS84	GPS	Herman Creek	10/19/2011	Daniel J. Schultz	Minnow Trap	no fish collected or observed						
429	59.41313990	-136.09096505	WGS84	GPS	Herman Creek	10/19/2011	Daniel J. Schultz	Minnow Trap	no fish collected or observed						
430	59.41332850	-136.09147232	WGS84	GPS	Herman Creek	10/19/2011	Daniel J. Schultz	Minnow Trap	Dolly Varden	juvenile	60				
431	59.41323194	-136.09185227	WGS84	GPS	Herman Creek	10/19/2011	Daniel J. Schultz	Minnow Trap	coho salmon	juvenile	90			2	photo 3862
431	59.41323194	-136.09185227	WGS84	GPS	Herman Creek	10/19/2011	Daniel J. Schultz	Minnow Trap	Dolly Varden	juvenile	70				
432	59.41290504	-136.09265752	WGS84	GPS	Herman Creek	10/19/2011	Daniel J. Schultz	Minnow Trap	no fish collected or observed						
433	59.41251118	-136.09406778	WGS84	GPS	Herman Creek	10/19/2011	Daniel J. Schultz	Minnow Trap	no fish collected or observed						
490	59.41355783	-136.07022730		GPS	Herman Creek	8/2/2011	Jeremy C Taylor	Minnow Trap	coho salmon	Juvenile	60			5	
490	59.41355783	-136.07022730		GPS	Herman Creek	8/2/2011	Jeremy C Taylor	Minnow Trap	Dolly Varden	Juvenile	70			1	photo 117-0144, 0145
491	59.41296430	-136.07162464		GPS	Herman Creek	8/2/2011	Jeremy C Taylor	Minnow Trap	coho salmon	Juvenile	55				
491	59.41296430	-136.07162464		GPS	Herman Creek	8/2/2011	Jeremy C Taylor	Minnow Trap	Dolly Varden	Juvenile	100				
492	59.41279801	-136.07263617		GPS	Herman Creek	8/2/2011	Jeremy C Taylor	Minnow Trap	coho salmon	Juvenile	55			28	photo 117-0147, 0148. Length range from 45-65mm
492	59.41279801	-136.07263617		GPS	Herman Creek	8/2/2011	Jeremy C Taylor	Minnow Trap	Dolly Varden	Juvenile	45			5	photo 117-0149. 0150
493	59.41286967	-136.07449721		GPS	Herman Creek	8/2/2011	Jeremy C Taylor	Minnow Trap		Juvenile					trap destroyed by bear. Photo 117-0151
494	59.41294637	-136.07587259		GPS	Herman Creek	8/2/2011	Jeremy C Taylor	Minnow Trap	coho salmon	Juvenile	70			1	
494	59.41294637	-136.07587259		GPS	Herman Creek	8/2/2011	Jeremy C Taylor	Minnow Trap	Dolly Varden	Juvenile	80			3	
495	59.41233432	-136.07767529		GPS	Herman Creek	8/2/2011	Jeremy C Taylor	Minnow Trap	coho salmon	Juvenile	70			25	photo 117-0152-0156. length range from 80-60
495	59.41233432	-136.07767529		GPS	Herman Creek	8/2/2011	Jeremy C Taylor	Minnow Trap	Dolly Varden	Juvenile					
496	59.41229484	-136.07864767		GPS	Herman Creek	8/2/2011	Jeremy C Taylor	Minnow Trap	coho salmon	Juvenile	50			1	
496	59.41229484	-136.07864767		GPS	Herman Creek	8/2/2011	Jeremy C Taylor	Minnow Trap	Dolly Varden	Juvenile					
497	59.41206099	-136.08206917		GPS	Herman Creek	8/2/2011	Jeremy C Taylor	Minnow Trap	coho salmon	Juvenile	55			9	length range from 50-60mm
498	59.41220859	-136.08364681		GPS	Herman Creek	8/2/2011	Jeremy C Taylor	Minnow Trap	coho salmon	Juvenile	55			22	length range from 50-60mm. Photo 117-0157, 0159
498	59.41220859	-136.08364681		GPS	Herman Creek	8/2/2011	Jeremy C Taylor	Minnow Trap	Dolly Varden	Juvenile	70			9	length range from 60-80mm
499	59.41258561	-136.08422809		GPS	Herman Creek	8/2/2011	Jeremy C Taylor	Minnow Trap	coho salmon	Juvenile	70			3	beaver dam, length range from 60-80mm
503	59.41309892	-136.08987775		GPS	Herman Creek	8/2/2011	Jeremy C Taylor	Minnow Trap	coho salmon	Juvenile				1	
504	59.41317460	-136.09029508		GPS	Herman Creek	8/2/2011	Jeremy C Taylor	Minnow Trap	coho salmon	Juvenile	50			1	
504	59.41317460	-136.09029508		GPS	Herman Creek	8/2/2011	Jeremy C Taylor	Minnow Trap	Dolly Varden	Juvenile	80				
505	59.41322942	-136.09071367		GPS	Herman Creek	8/2/2011	Jeremy C Taylor	Minnow Trap	Dolly Varden	Juvenile	130			4	130mmX4. 90mm
506	59.41320134	-136.09181950		GPS	Herman Creek	8/2/2011	Jeremy C Taylor	Minnow Trap	Dolly Varden	Juvenile	80			1	100mm, 80mm
507	59.41334208	-136.09236281		GPS	Herman Creek	8/2/2011	Jeremy C Taylor	Dip Net	coho salmon	Juvenile	40			4	too small for traps
510	59.41655830	-136.05968915		GPS	Lower Herman Creek	8/3/2011	Jeremy C Taylor	Minnow Trap	coho salmon	Juvenile	80				pink spawning
510	59.41655830	-136.05968915		GPS	Lower Herman Creek	8/3/2011	Jeremy C Taylor	Minnow Trap	Dolly Varden	Juvenile	60			1	
512	59.41649158	-136.06033104		GPS	Lower Herman Creek	8/3/2011	Jeremy C Taylor	Minnow Trap	coho salmon	Juvenile	55				pink spawning
513	59.41645402	-136.06078525		GPS	Lower Herman Creek	8/3/2011	Jeremy C Taylor	Minnow Trap	coho salmon	Juvenile	60			19	photo 118-0176. length range from 50-65mm
513	59.41645402	-136.06078525		GPS	Lower Herman Creek	8/3/2011	Jeremy C Taylor	Minnow Trap	Dolly Varden	Juvenile				11	
514	59.41596117	-136.06222727		GPS	Lower Herman Creek	8/3/2011	Jeremy C Taylor	Minnow Trap	coho salmon	Juvenile	45				
514	59.41596117	-136.06222727		GPS	Lower Herman Creek	8/3/2011	Jeremy C Taylor	Minnow Trap	Dolly Varden	Juvenile	85				
515	59.41507285	-136.06347542		GPS	Lower Herman Creek	8/3/2011	Jeremy C Taylor	Minnow Trap	coho salmon	Juvenile	55			8	
517	59.41391598	-136.06658008		GPS	Lower Herman Creek	8/3/2011	Jeremy C Taylor	Minnow Trap	coho salmon	Juvenile	65				photo 118-0175
517	59.41391598	-136.06658008		GPS	Lower Herman Creek	8/3/2011	Jeremy C Taylor	Minnow Trap	Dolly Varden	Juvenile	60			2	
522	59.41988532	-136.13242990		GPS	Cave Creek	8/3/2011	Jeremy C Taylor	Minnow Trap	coho salmon	Juvenile	75				photo 118-0162-0163
522	59.41988532	-136.13242990		GPS	Cave Creek	8/3/2011	Jeremy C Taylor	Minnow Trap	Dolly Varden	Juvenile	80				
531	59.41989991	-136.13109668		GPS	Cave Creek	8/3/2011	Jeremy C Taylor	Minnow Trap	coho salmon	Juvenile	85				
547	59.41943337	-136.12972808		GPS	Cave Creek	8/3/2011	Jeremy C Taylor	Minnow Trap	Dolly Varden	Juvenile	85				
551	59.41935936	-136.12935014		GPS	Cave Creek	8/3/2011	Jeremy C Taylor	Minnow Trap	coho salmon	Juvenile	60				
551	59.41935936	-136.12935014		GPS	Cave Creek	8/3/2011	Jeremy C Taylor	Minnow Trap	Dolly Varden	Juvenile	90				Good deep pool. Photo 118-0169
556	59.41919910	-136.12865369		GPS	Cave Creek	8/3/2011	Jeremy C Taylor	Minnow Trap	Dolly Varden	Juvenile	120			2	
568	59.41909952	-136.12689324		GPS	Cave Creek	8/3/2011	Jeremy C Taylor	Minnow Trap	coho salmon	Juvenile	65			2	below limestone outcroop. Length range from 120-140mm
568	59.41909952	-136.12689324		GPS	Cave Creek	8/3/2011	Jeremy C Taylor	Minnow Trap	Dolly Varden	Juvenile	75			5	photo 118-0170
587	59.41814122	-136.12218043		GPS	Cave Creek	8/3/2011	Jeremy C Taylor	Minnow Trap	coho salmon	Juvenile	70			4	
587	59.41814122	-136.12218043		GPS	Cave Creek	8/3/2011	Jeremy C Taylor	Minnow Trap	Dolly Varden	Juvenile	80			2	photo 118-0171-0172
591	59.41798599	-136.12145212		GPS	Cave Creek	8/3/2011	Jeremy C Taylor	Minnow Trap	coho salmon	Juvenile	65			4	
609	59.41817081	-136.11685314		GPS	Cave Creek	8/3/2011	Jeremy C Taylor	Minnow Trap	Dolly Varden	Juvenile	70			17	photo 118-0173. 65mmX16, 75mmX2
633	59.41690019	-136.11284022		GPS	Cave Creek	8/3/2011	Jeremy C Taylor	Minnow Trap	coho salmon	Juvenile	60			7	photo 118-0174. length range from 55-65mm
633	59.41690019	-136.11284022		GPS	Cave Creek	8/3/2011	Jeremy C Taylor	Dip Net	Dolly Varden	Juvenile	90			1	length range from 70-90mm
656	59.41725031	-136.10728654		GPS	Cave Creek	8/3/2011	Jeremy C Taylor	Dip Net	coho salmon	Juvenile	60				Photo 117-0159, 0160
660	59.41733295	-136.10666444		GPS	Cave Creek	8/3/2011	Jeremy C Taylor	Dip Net	coho salmon	Juvenile	50				
663	59.41736011	-136.10621600		GPS	Cave Creek	8/3/2011	Jeremy C Taylor	Dip Net	coho salmon	Juvenile	50			1	photo 117-0161
670	59.41698904	-136.10465286		GPS	Cave Creek	8/3/2011	Jeremy C Taylor	Dip Net	coho salmon	Juvenile	50			1	photo 117-0162
686	59.42627384	-136.22140003		GPS	Porcupine Creek	8/4/2011	Jeremy C Taylor	Minnow Trap	Dolly Varden	Juvenile	70			1	
687	59.42616790	-136.22165711		GPS	Porcupine Creek	8/4/2011	Jeremy C Taylor	Minnow Trap	Dolly Varden	Juvenile	55			8	length range from 55-120mm
688	59.42574260	-136.22194259		GPS	Porcupine Creek	8/4/2011	Jeremy C Taylor	Minnow Trap	Dolly Varden	Juvenile	55			14	length range from 55-100mm
689	59.42558577	-136.22174352		GPS	Porcupine Creek	8/4/2011	Jeremy C Taylor	Minnow Trap	Dolly Varden	Juvenile	55			24	photo 119-0179. length range from 55-100mm
690	59.42745091	-136.22097423		GPS	Bear Creek	8/4/2011	Jeremy C Taylor	Minnow Trap	coho salmon	Juvenile	40			100	photo 119-0180, 0181. Length range from 40-80mm
690	59.42745091	-136.22097423		GPS	Bear Creek	8/4/2011	Jeremy C Taylor	Minnow Trap	Dolly Varden	Juvenile	60			9	length range from 50-70
691	59.42757740	-136.22165996		GPS	Bear Creek	8/4/2011	Jeremy C Taylor	Minnow Trap	coho salmon	Juvenile	45			13	photo 119-0182. length range from 40-50mm
692	59.42703668	-136.22221861		GPS	Bear Creek	8/4/2011	Jeremy C Taylor	Minnow Trap	coho salmon	Juvenile	40			13	length range from 35-50mm
692	59.42703668	-136.22221861		GPS	Bear Creek	8/4/2011	Jeremy C Taylor	Minnow Trap	Dolly Varden	Juvenile	45			4	length range from 40-50mm
693	59.42630729	-136.22261382		GPS	Bear Creek	8/4/2011	Jeremy C Taylor	Minnow Trap	Dolly Varden	Juvenile	75			1	
694	59.42625490	-136.22345561		GPS	Bear Creek	8/4/2011	Jeremy C Taylor	Minnow Trap	coho salmon	Juvenile	50			2	pink salmon stream
694	59.42625490	-136.22345561		GPS	Bear Creek	8/4/2011	Jeremy C Taylor	Minnow Trap	Dolly Varden	Juvenile	55			1	
695	59.42634660	-136.22462925		GPS	Bear Creek	8/4/2011	Jeremy C Taylor	Minnow Trap	coho salmon	Juvenile	50			3	
695	59.42634660	-136.22462925		GPS	Bear Creek	8/4/2011	Jeremy C Taylor	Minnow Trap	Dolly Varden	Juvenile	80				
696	59.42631642	-136.22613589		GPS	Bear Creek	8/4/2011	Jeremy C Taylor	Minnow Trap	Dolly Varden	Juvenile	80				
697	59.42619245	-136.22816130		GPS	Bear Creek	8/4/2011	Jeremy C Taylor	Minnow Trap	Dolly Varden	Adult	140				
1	59.42604016	-136.31533569		GPS	Sarah Creek	8/9/2011	Jeremy C Taylor, Daniel J Schultz	Minnow Trap	Dolly Varden	Juvenile	120				
2	59.42758343	-136.32140804		GPS	Sarah Creek	8/9/2011	Jeremy C Taylor, Daniel J Schultz	Minnow Trap	Dolly Varden	Juvenile	55				
3	59.42850511	-136.32683918		GPS	Sarah Creek	8/9/2011	Jeremy C Taylor, Daniel J Schultz	Minnow Trap	Dolly Varden	Juvenile	120			7	Length Range from 70-120mm
4	59.42887777	-136.32847046		GPS	Sarah Creek	8/9/2011	Jeremy C Taylor, Daniel J Schultz	Minnow Trap	Dolly Varden	Juvenile	120				
4	59.42887777	-136.32847046		GPS	Sarah Creek	8/9/2011	Jeremy C Taylor, Daniel J Schultz	Dip Net	coho salmon	Juvenile	40			27	2 dips. Photo 120-185, 186, 187, 188, 189
5	59.42923710	-136.33095947		GPS	Sarah Creek	8/9/2011	Jeremy C Taylor, Daniel J Schultz	Minnow Trap	no fish collected or observed						
6	59.42871876	-136.33248875		GPS	Sarah Creek	8/9/2011	Jeremy C Taylor, Daniel J Schultz	Minnow Trap	Dolly Varden	Juvenile	55			1	
7	59.42864047	-136.33318084		GPS	Sarah Creek	8/9/2011	Jeremy C Taylor, Daniel J Schultz	Minnow Trap	Dolly Varden	Juvenile	60				
8	59.42862337	-136.33341939		GPS	Sarah Creek	8/9/2011	Jeremy C Taylor, Daniel J Schultz	Minnow Trap	Dolly Varden	Juvenile	70			2	
9	59.42868121	-136.33382189		GPS	Sarah Creek	8/9/2011	Jeremy C Taylor, Daniel J Schultz	Minnow Trap	Dolly Varden	Juvenile	50				length range from 60-80mm
10	59.42861089	-136.33404996		GPS	Sarah Creek	8/9/2011	Jeremy C Taylor, Daniel J Schultz	Minnow Trap	Dolly Varden	Juvenile	70			2	
11	59.42842062	-136.33447937		GPS	Sarah Creek	8/9/2011	Jeremy C Taylor, Daniel J Schultz	Minnow Trap	Dolly Varden	Juvenile	60			2	lengths of 60, 70, 120mm. Photo 120-184
12	59.42564600	-136.31040900		GPS	Little Sarah Creek	8/9/2011	Jeremy C Taylor, Daniel J Schultz	Minnow Trap	cutthroat trout	juvenile	80			2	length range 60-70mm
12	59.42564600	-136.31040900		GPS	Little Sarah Creek	8/9/2011	Jeremy C Taylor, Daniel J Schultz	Minnow Trap	coho salmon	Juvenile	60			11	length range 60-85 mm
12	59.42564600	-136.31040900		GPS	Little Sarah Creek	8/9/2011	Jeremy C Taylor, Daniel J Schultz	Minnow Trap	Dolly Varden	juvenile	70			6	
13	59.42646931	-136.30538385		GPS	Glacier Creek	8/9/2011	Jeremy C Taylor, Daniel J Schultz	Minnow Trap	no fish collected or observed						

14	59.42363639	-136.30276300		GPS	Glacier Creek	8/9/2011	Jeremy C Taylor, Daniel J Schultz	Minnow Trap	Dolly Varden	Juvenile	60								
15	59.42326717	-136.30282192		GPS	Glacier Creek	8/9/2011	Jeremy C Taylor, Daniel J Schultz	Minnow Trap	Dolly Varden	Juvenile	60					1		length range 60-70mm	
16	59.42035672	-136.29746664		GPS	Glacier Creek	8/9/2011	Jeremy C Taylor, Daniel J Schultz	Minnow Trap	Dolly Varden	Juvenile	70					2			
17	59.41761584	-136.30116709		GPS	Glacier Creek	8/9/2011	Jeremy C Taylor, Daniel J Schultz	Minnow Trap	no fish collected or observed							2		Length range 70-80mm	
18	59.41671512	-136.30402355		GPS	Glacier Creek	8/9/2011	Jeremy C Taylor, Daniel J Schultz	Minnow Trap	Dolly Varden	Juvenile	70								


add coho salmon rearing to 115-32-10250-2077-3061
100+ coho rearing observed thru-out reach
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