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

Nomination Form
Anadromous Waters Catalog

Region: Southeast

USGS Quad(s): Craig A-3

Anadromous Waters Catalog Number of Waterway: 103-40-10410-2005 -3010- 4021

Name of Waterway: Hydaburg River Tributary 1

☐ USGS Name ☒ Local Name

☒ Addition ☐ Deletion ☐ Correction ☐ Backup Information

For Office Use

Nomination #	14-502	Fisheries Scientist	4/25/14 Date
Revision Year:	2015	Habitat Operations Manager	4/25/14 Date
Revision to:	Atlas ____ Catalog ____ Both ✓	AWC Project Biologist	3/21/14 Date
Revision Code:	A-2, C-9	Cartographer	5/19/14 Date

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Coho Salmon	July 1-2, 2013		x		☒
Cutthroat Trout	July 1-2, 2013			x	☐
Rainbow Trout	July 1-2, 2013			x	☐
Dolly Varden	July 1-2, 2013			x	☐
Steelhead Trout	July 1-2, 2013		x	x	☒

Anadromy unk samples all juv.

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 new streams 103-40-10410-2005-3010 & 3010-4021 w/ Coho salmon REARING

See attached supplemental information.

This application was prepared by Cathy Needham, who may be reached at 907-723-4436 or cathy@kaienvironmental.com

update hydrography and Reposition pts for 103-40-10410-2005

Also updated stream hydro for 103-40-10410 so it connects w/ -2005

ALASKA DEPT. OF FISH & GAME
JAN 0 8 2014

Name of Observer (please print): Tony Sanderson

Signature: [signature]

Date: 1-8-13

Agency: Hydaburg Cooperative Association

Address: P.O. Box 349
Hydaburg, Alaska 99922

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

Supplemental information for Hydaburg River Tributary

Eighteen baited minnow traps, soaked for 2-6 hours, were set throughout the Hydaburg River Tributary of the Hydaburg River July 1-2, 2013. The attached figure shows the trap locations. The Hydaburg River mainstem is currently listed in the Andromous Waters Catalog (103-40-10410-2005) for chum salmon spawning, pink salmon spawning and coho salmon rearing and spawning. This current nomination is to include additional stream reaches not previously mapped for the tributary where coho rearing is occurring (Reaches 8-12; see attached map). It is also noted that cutthroat trout, rainbow trout and Dolly Varden were present in traps throughout the tributary. An ADFG fish trapping permit datasheet is attached to this nomination packet for further details on fish trapping efforts.

Stream mapping and survey data was collected by the Hydaburg Cooperative Association Stream Survey crew for the Hydaburg River Tributary on July 1-2, 2013. Data was taken on seven reaches (reach numbers in the tables correspond to a master dataset; see attached figure for locations). No stream survey data was taken on Reach 8, given that the length of the reach was a beaver pond. The attached figure shows the location of a beaver dam in Reach 8. The dam had a barrier height of 1 meter, with a 0.51 meter pool depth and a 7% gradient. Anadromous fish were trapped above the dam, therefore the structure was not an impediment to fish passage. The following pictures shows the beaver dam in Reach 5.

The stream survey data for the six remaining reaches are in the following tables:

	Reach 9	Reach 10	Reach 11
Average stream gradient	0.85	4.25	2.6
Average bankfull width	3.8	7.2	7.0
Average channel bed width	8.1	6.1	4.9
Average incision depth	0.6	0.7	0.6
Bank composition	Organic	Mixed Alluvial/Bedrock	Organic
Dominant substrate	Very course gravel	Very course gravel	Small cobble
Sub-dominate substrate	Course gravel and organic	Small cobble and Course gravel	Large cobble and very course gravel
Large wood count	94	120	36
Key wood count	44	26	30
Macro-pool count	27	33	18

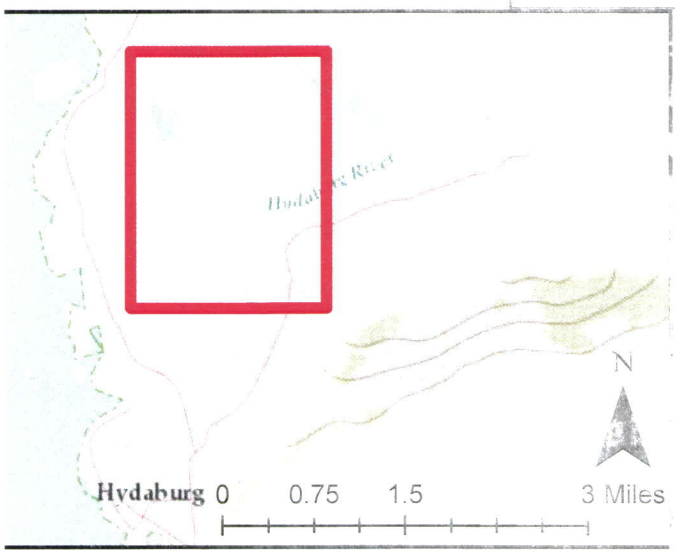
	Reach 12	Reach 13	Reach 14
Average stream gradient	1.85	2.2	1.7
Average bankfull width	5.0	2.1	1.8
Average channel bed width	5.87	2.23	3.1
Average incision depth	0.8	0.47	0.56
Bank composition	Organic	Organic	Organic
Dominant substrate	very course gravel	Small cobble	Very course gravel
Sub-dominate substrate	Small cobble and Course gravel	Very course gravel and Large cobble	Course and Medium course gravel
Large wood count	65	37	55
Key wood count	24	36	19
Macro-pool count	25	21	19

Reach 9 was classified as PAS (palustrine narrow placid flow) and contained two beaver dam structures in close proximity to one another (see map for dam locations). The lower dam had a barrier height of 1.27 meters with a pool depth of 1.1 meters and a gradient of 14%. The upper dam had a barrier height of 1.26 meters and a gradient of 8.7%. Anadromous fish were trapped above these beaver dams, so they were not considered an impediment to fish passage. The following two pictures show the beaver dams in Reach 9.

Reach 10 and 11 were classified as MMS (moderate gradient with mixed control) and Reach 12 was classified as LCS (low gradient contained). There was a beaver present at the top of Reach 12 (see attached map). The dam had a barrier height of 1.5 meters with a pool depth of 1.3 meters and a barrier gradient of 7%. It is unknown if fish are present beyond this dam, as no trapping efforts were performed. A large beaver pond was upstream of the beaver dam, which may provide fish habitat however stream survey work ended at the beaver dam.

Reach 14 has previously been [illegible] in the Anadromous Fish Catalog. No new species or life stages were added, but [illegible] was collected on this reach of the tributary. Reach 14 is classified as MCS [illegible] contained). There was a beaver dam structure documented at the outlet of the lake, with a barrier height of 1 meter, a pool depth of 0.15 meters and the barrier gradient was 10%. Stream survey work did not continue past the beaver dam, however fish habitat was present in the pond/lake so fish may be rearing there. It is unknown if the beaver dam is an impediment to fish passage. No photos of the beaver dam or pond/lake are available.

Hydaburg River Tributary
July 2-3, 2013



Reach 13

493

494

495

496

492

497

Reach 10

Reach 11

Reach 12

487

Reach 14

491

479

Reach 9

490

473

469

Reach 8

Legend

- Beaver Dams
- AWC Points
- AWC Mapped Reachs

Fish Traps

- Coho Salmon
- Dolly Varden
- Cutthroat Trout
- Rainbow Trout

N

Numbered reaches mapped by Hydaburg Cooperative Association

0 0.15 0.3 0.6 Miles

Service Layer Credits: Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN,

ADF&G permit no. SF2013-208

Summary report of fish collection activity.

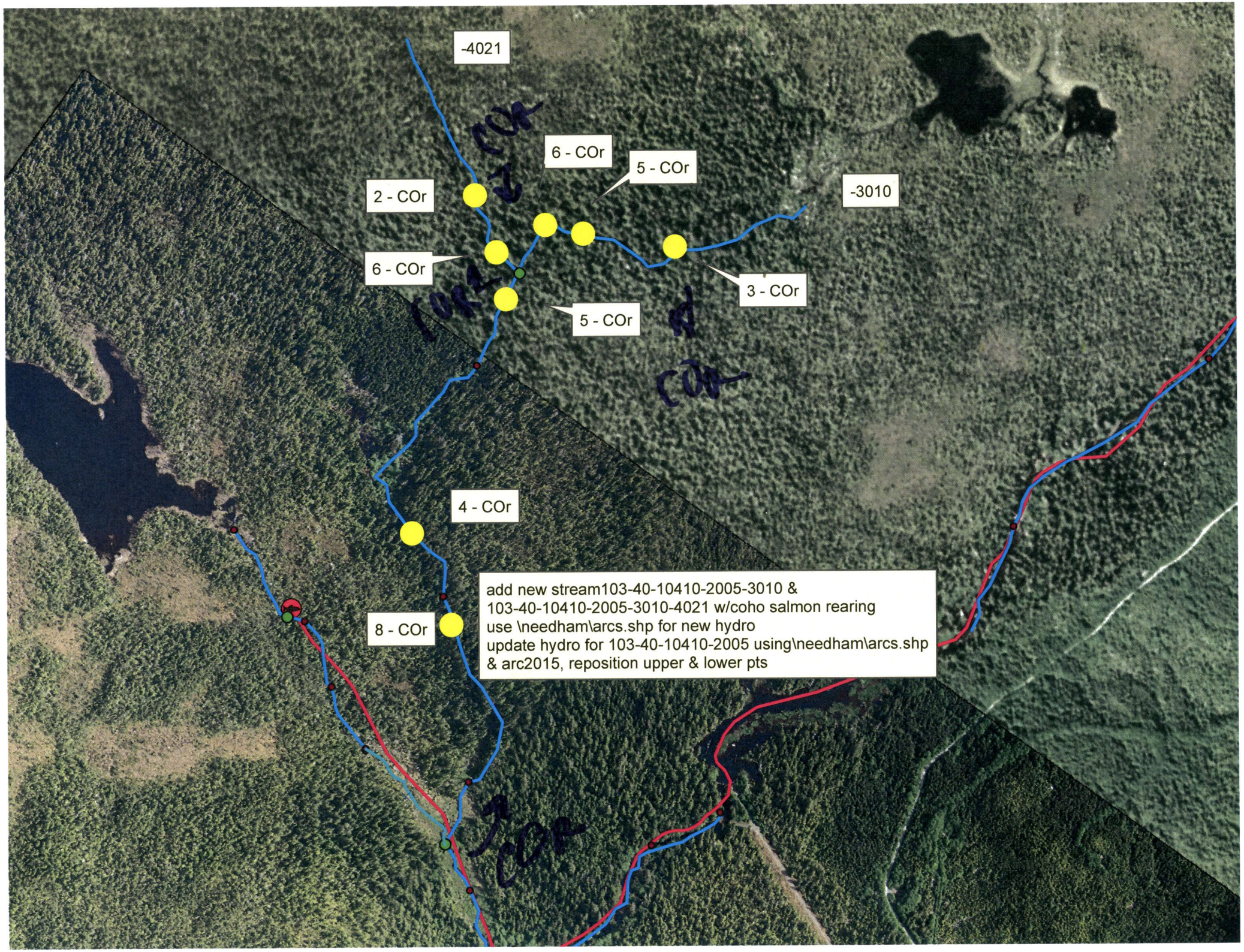
The area biologist was contacted on: 3:07pm on 5/29/13

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	Disposition (1)
[illegible]	55.22101297	-132.814995	WGS85	GPS	Hydaburg	7/1/2013	Tony Sanderson	Minnow Trap	stickleback-unspecified	juvenile	37	fork	measured and released
[illegible]	55.22101297	-132.814995	WGS85	GPS	Hydaburg	7/1/2013	Tony Sanderson	Minnow Trap	stickleback-unspecified	juvenile	51	fork	measured and released
[illegible]	55.22471536	-132.814994	WGS85	GPS	Hydaburg	7/1/2013	Tony Sanderson	Minnow Trap	stickleback-unspecified	juvenile	51	fork	measured and released
[illegible]	55.22709202	-132.812499	WGS85	GPS	Hydaburg	7/1/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	95	fork	ID'ed and released
[illegible]	55.2270[illegible]	-132.812499	WGS85	GPS	Hydaburg	7/1/2013	Tony Sanderson	Minnow Trap	stickleback-unspecified	juvenile	50	fork	measured and released
[illegible]	[illegible]	[illegible]	[illegible]	GPS	Hydaburg	7/1/2013	Tony Sanderson	Minnow Trap	cutthroat trout	juvenile	[illegible]	fork	measured and released
[illegible]	[illegible]	[illegible]	[illegible]	GPS	Hydaburg	7/1/2013	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	71	fork	measured and released
[illegible]	[illegible]	[illegible]	WGS85	GPS	Hydaburg	7/1/2013	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile			ID'ed and released
[illegible]	[illegible]	[illegible]	WGS85	GPS	Hydaburg	7/1/2013	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile			ID'ed and released
[illegible]	[illegible]	[illegible]	WGS85	GPS	Hydaburg	7/1/2013	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	72	fork	measured and released
[illegible]	55.22[illegible]09	-132.815352	WGS85	GPS	Hydaburg	7/1/2013	Tony Sanderson	Minnow Trap	stickleback-unspecified	juvenile	48	fork	measured and released
[illegible]	55.22[illegible]099	-132.815352	WGS85	GPS	Hydaburg	7/1/2013	Tony Sanderson	Minnow Trap	stickleback-unspecified	juvenile	48	fork	measured and released
[illegible]	55.22[illegible]099	-132.815352	WGS85	GPS	Hydaburg	7/1/2013	Tony Sanderson	Minnow Trap	stickleback-unspecified	juvenile	49	fork	measured and released
469	55.22625002	-132.815339	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	65	fork	measured and released
469	55.22625002	-132.815339	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	45	fork	measured and released
469	55.22625002	-132.815339	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	57	fork	measured and released
469	55.22625002	-132.815339	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	50	fork	measured and released
469	55.22625002	-132.815339	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	45	fork	measured and released
469	55.22625002	-132.815339	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	54	fork	measured and released
469	55.22625002	-132.815339	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	63	fork	measured and released
469	55.22625002	-132.815339	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	50	fork	measured and released
469	55.22625002	-132.815339	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	52	fork	measured and released
469	55.22625002	-132.815339	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	56	fork	measured and released
473	55.22717798	-132.815634	WGS85	GPS	Hydaburg	7/1/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	74	fork	measured and released
473	55.22717798	-132.815634	WGS85	GPS	Hydaburg	7/1/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	78	fork	measured and released
473	55.22717798	-132.815634	WGS85	GPS	Hydaburg	7/1/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	57	fork	measured and released
473	55.22717798	-132.815634	WGS85	GPS	Hydaburg	7/1/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	55	fork	measured and released
473	55.22717798	-132.815634	WGS85	GPS	Hydaburg	7/1/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	52	fork	measured and released

473	55.22717798	-132.815634	WGS85	GPS	Hydaburg	7/1/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	68	fork	measured and released
473	55.22717798	-132.815634	WGS85	GPS	Hydaburg	7/1/2013	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	70	fork	measured and released
473	55.22717798	-132.815634	WGS85	GPS	Hydaburg	7/1/2013	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	66	fork	measured and released
473	55.22717798	-132.815634	WGS85	GPS	Hydaburg	7/1/2013	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	60	fork	measured and released
473	55.22717798	-132.815634	WGS85	GPS	Hydaburg	7/1/2013	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	84	fork	measured and released
473	55.22717798	-132.815634	WGS85	GPS	Hydaburg	7/1/2013	Tony Sanderson	Minnow Trap	stickleback-unspecified	juvenile	52	fork	measured and released
473	55.22717798	-132.815634	WGS85	GPS	Hydaburg	7/1/2013	Tony Sanderson	Minnow Trap	stickleback-unspecified	juvenile	54	fork	measured and released
473	55.22717798	-132.815634	WGS85	GPS	Hydaburg	7/1/2013	Tony Sanderson	Minnow Trap	stickleback-unspecified	juvenile	52	fork	measured and released
473	55.22717798	-132.815634	WGS85	GPS	Hydaburg	7/1/2013	Tony Sanderson	Minnow Trap	stickleback-unspecified	juvenile	40	fork	measured and released
475	55.22811002	-132.815744	WGS85	GPS	Hydaburg	7/1/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	72	fork	measured and released
475	55.22811002	-132.815744	WGS85	GPS	Hydaburg	7/1/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	58	fork	measured and released
[illegible]	[illegible]	[illegible]	[illegible]	GPS	[illegible]	[illegible]	[illegible]	[illegible]	coho salmon	juvenile	77	fork	measured and released
[illegible]	[illegible]	[illegible]	[illegible]	GPS	[illegible]	[illegible]	[illegible]	[illegible]	coho salmon	juvenile	70	fork	measured and released
475	55.22811002	-132.815744	WGS85	GPS	Hydaburg	7/1/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	70	fork	measured and released
[illegible]	[illegible]	[illegible]	[illegible]	GPS	[illegible]	[illegible]	[illegible]	[illegible]	coho salmon	juvenile	58	fork	measured and released
[illegible]	[illegible]	[illegible]	[illegible]	GPS	[illegible]	[illegible]	[illegible]	[illegible]	coho salmon	juvenile	61	fork	measured and released
485	55.22744897	-132.812519	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	54	fork	measured and released
485	55.22744897	-132.812519	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	65	fork	measured and released
485	55.22744897	-132.812519	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	68	fork	measured and released
490	55.22744897	-132.812519	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	70	fork	measured and released
490	55.22744897	-132.812519	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	66	fork	measured and released
490	55.22744897	-132.812519	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile			ID'ed and released
490	55.22744897	-132.812519	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	55	fork	measured and released
491	55.228778	-132.812714	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	62	fork	measured and released
491	55.228778	-132.812714	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	62	fork	measured and released
491	55.228778	-132.812714	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	60	fork	measured and released
491	55.228778	-132.812714	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	80	fork	measured and released
492	55.23134303	-132.808873	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	64	fork	measured and released
492	55.23134303	-132.808873	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	70	fork	measured and released
492	55.23134303	-132.808873	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	66	fork	measured and released
492	55.23134303	-132.808873	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	62	fork	measured and released
492	55.23134303	-132.808873	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	54	fork	measured and released
492	55.23134303	-132.808873	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	135	fork	measured and released
492	55.23134303	-132.808873	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	rainbow trout	juvenile	79	fork	measured and released

492	55.23134303	-132.808873	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	rainbow trout	juvenile			ID'ed and released
493	55.23278497	-132.808787	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	65	fork	measured and released
493	55.23278497	-132.808787	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	62	fork	measured and released
493	55.23278497	-132.808787	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	cutthroat trout	juvenile	105	fork	measured and released
493	55.23278497	-132.808787	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	72	fork	measured and released
494	55.23197503	-132.808735	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	70	fork	measured and released
494	55.23197503	-132.808735	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	53	fork	measured and released
494	55.23197503	-132.808735	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	68	fork	measured and released
494	55.23197503	-132.808735	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	68	fork	measured and released
494	55.23197503	-132.808735	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	71	fork	measured and released
494	55.23197503	-132.808735	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	55	fork	measured and released
[illegible]	[illegible]	[illegible]	[illegible]	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	70	fork	measured and released
[illegible]	[illegible]	[illegible]	[illegible]	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	53	fork	measured and released
[illegible]	[illegible]	[illegible]	[illegible]	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	70	fork	measured and released
[illegible]	[illegible]	[illegible]	[illegible]	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	68	fork	measured and released
[illegible]	[illegible]	[illegible]	[illegible]	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	65	fork	measured and released
495	55.23210998	-132.807452	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	69	fork	measured and released
495	55.23210998	-132.807452	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	cutthroat trout	juvenile	115	fork	measured and released
495	55.23210998	-132.807452	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	cutthroat trout	juvenile	99	fork	measured and released
495	55.23210998	-132.807452	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	100	fork	measured and released
495	55.23210998	-132.807452	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	90	fork	measured and released
495	55.23210998	-132.807452	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	85	fork	measured and released
495	55.23210998	-132.807452	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	86	fork	measured and released
496	55.23183899	-132.806675	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	62	fork	measured and released
496	55.23183899	-132.806675	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	55	fork	measured and released
496	55.23183899	-132.806675	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	62	fork	measured and released
496	55.23183899	-132.806675	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	82	fork	measured and released
496	55.23183899	-132.806675	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	52	fork	measured and released
496	55.23183899	-132.806675	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	110	fork	measured and released
496	55.23183899	-132.806675	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile			ID'ed and released
496	55.23183899	-132.806675	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	85	fork	measured and released
496	55.23183899	-132.806675	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile			ID'ed and released
496	55.23183899	-132.806675	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	60	fork	measured and released
496	55.23183899	-132.806675	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	rainbow trout	juvenile	60	fork	measured and released

496	55.23183899	-132.806675	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	rainbow trout		juvenile	88	fork	measured and released
497	55.23128704	-132.804733	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	coho salmon		juvenile	55	fork	measured and released
497	55.23128704	-132.804733	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	coho salmon		juvenile	65	fork	measured and released
497	55.23128704	-132.804733	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	coho salmon		juvenile	65	fork	measured and released
497	55.23128704	-132.804733	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	Dolly Varden		juvenile	90	fork	measured and released
497	55.23128704	-132.804733	WGS85	GPS	Hydaburg	7/2/2013	Tony Sanderson	Minnow Trap	Dolly Varden		juvenile	92	fork	measured and released


-4021
6 - COr
5 - COr
2 - COr
-3010
6 - COr
3 - COr
5 - COr
4 - COr
8 - COr
add new stream103-40-10410-2005-3010 &
103-40-10410-2005-3010-4021 w/coho salmon rearing
use \needham\arcs.shp for new hydro
update hydro for 103-40-10410-2005 using\needham\arcs.shp
& arc2015, reposition upper & lower pts