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

Nomination Form
Anadromous Waters Catalog

M

Region: SOUTHCENTRAL

USGS Quad(s): SEWARD C-4

Anadromous Waters Catalog Number of Waterway: 244-10-10010-2150

Name of Waterway: BEAVER CREEK

☒ USGS Name ☐ Local Name

ALASKA DEPT. OF FISH & GAME
OCT 29 2009

☐ Addition ☐ Deletion ☐ Correction ☑ Backup Information

For Office Use

Nomination #	C9-1522		10/30/09
		Fisheries Scientist	Date
Revision Year:	2010		10/30/09
Revision to: Atlas ____ Catalog ____		Habitat Operations Manager	Date
Both ✓			30 OCT 09
		AWC Project Biologist	Date
Revision Code:	B-6		12/17/09
		Cartographer	Date

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Dolly Varden	10/4/04			Yes	☑
					☐
					☐
					☐
					☐

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:

Adult Dolly Varden seen between given GPS position. See attached documents and map.

Extend Dolly Varden present in 244-10-10010-2150

Name of Observer (please print): Mike Rizo

Signature: [signature]

Date: 10-21-09

Agency: ADF&G

Address: 3298 Douglas Place
Homer, AK 99603

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: [signature] Date: 10/26/2009 Revision

02/08

POOL/ SPAWNING GRAVEL SURVEY FORM

Site Name: SFANC54-BEAVER CREEK Crew initials: MB, JM, MK Date: 10-4-04 Page 2 of 2

Pools

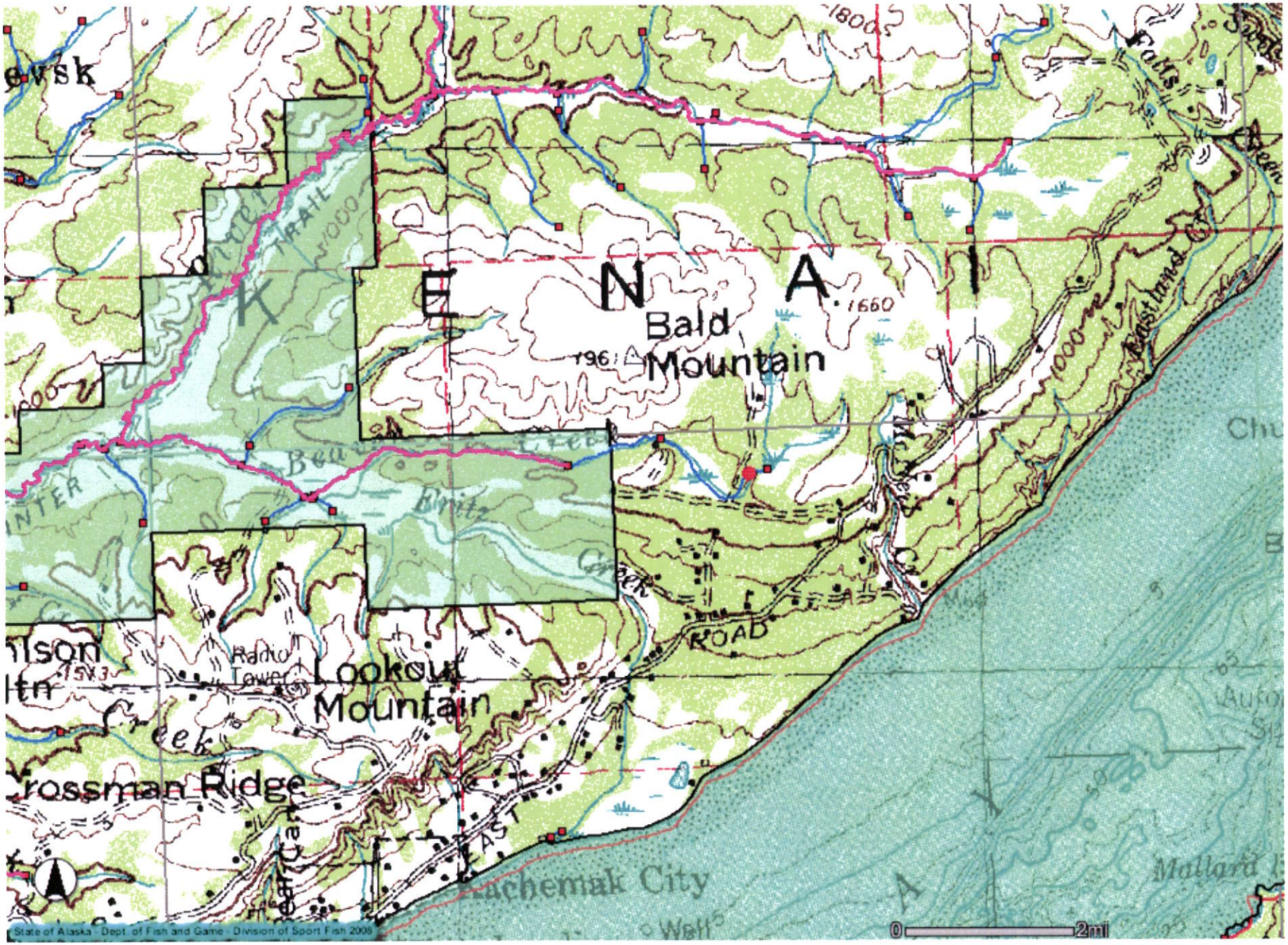
Pool #	Type	Form Code	Length (M)	Bankfull Width (M)	Wetted Width (M)	Bankfull Height (cm)	Max Depth(cm)	Tail Crest Depth(cm)	Spawning Substrate Area	Embed. (%)	Fish Cover LWD	B	UCB	LT	OHV	Fish (Y/N)	Flag
1	PL	BF	8.0	3.2	3.4	25	90	40	—	—	0	1	1	1	2	N	
2	PT	B	4.2	3.3	3.6	20	60	30			0	1	2	1	1	Y	F1
3	PP	B	3.3	3.0	4.5	25	50	35			0	2	3	1	2	N	
4	PD	LWD	5.2	3.5	3.9	25	65	40			2	0	1	1	2	N	
5	PP	LWD, B	8.2	4.7	4.2	20	55	45			1	1	1	3	3	N	F2

57
8
18
5

Spawning Gravel

Habitat Unit	Substrate Area	% Sub. B/T 10-102mm	Embed.(%)	LWD (Y/N)	Redd Count	Comments
						SEE NOTES ON PAGE 1

FLAG	COMMENTS
F1	10" Doll
F2	


K E N A I
Bald Mountain
1961
1660
Lookout Mountain
Radio Tower
Crossman Ridge
Bear Creek
Beaver Creek
Britz Creek
Eastland Cr
ROAD
EAST
Tachemak City
Mallard
Falls
Creek
0
2mi
State of Alaska - Dept. of Fish and Game - Division of Sport Fish 2008

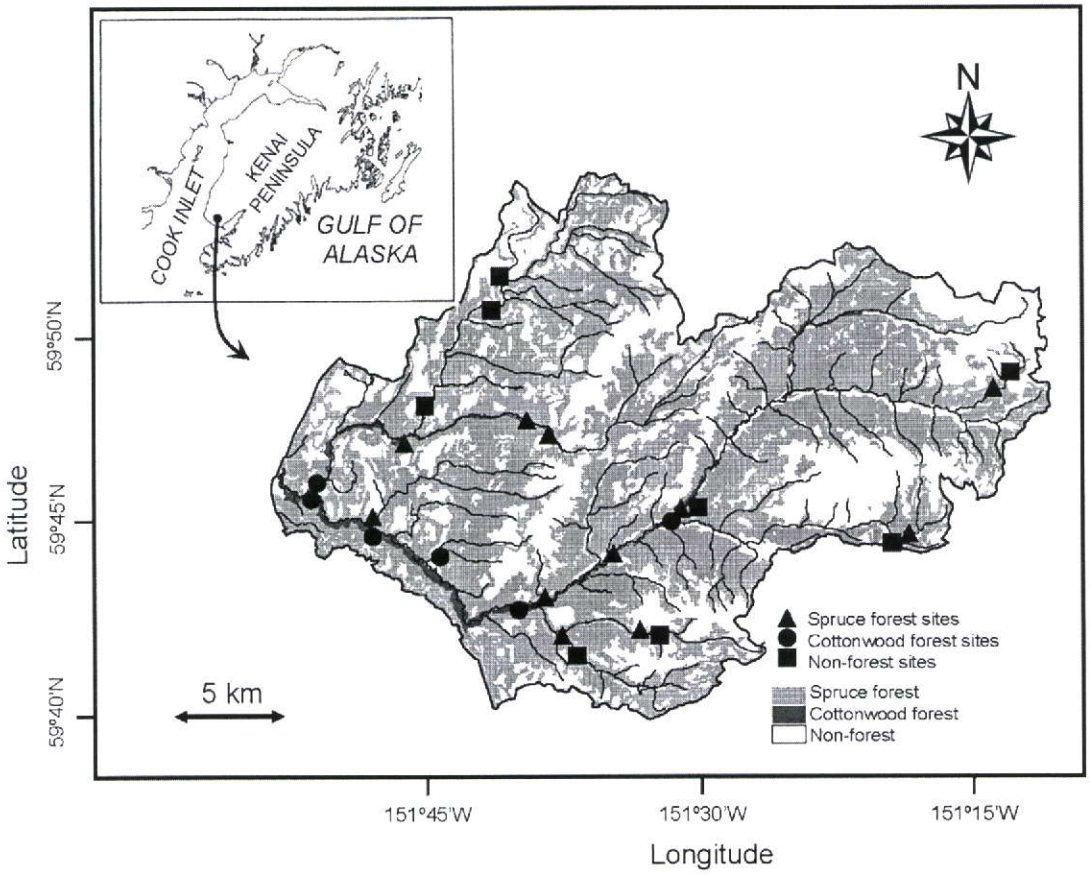


Figure 1. Distribution of dominant vegetation types and in-stream survey sites within the Anchor River basin, Alaska.

timberlands, road and trail networks, recreational and residential development, oil and gas fields, and gravel mines (Szarzi et al 2003).

We defined the LWD recruitment zone as a 30-m-wide band along each streambank since nearly all LWD originates from this area (Murphy and Koski 1989). The vegetation map by Greenberg and Rude (2003) identifies seven dominant vegetation types throughout the riparian zones of the Anchor River, although only four are common (Figure 1). Willow (*Salix* spp.) and grass (primarily bluejoint [*Calamagrostis canadensis* (Michx.) Beauv.]), combined into the non-forested vegetation type for this study, dominate some reaches in the upper half of the basin (1st- through 3rd-order reaches), making up 9% and 8% of the riparian zone, respectively. White spruce forest, comprising 52% of the riparian zone, is the most common riparian vegetation type and is found throughout the watershed. Continuous bands of cottonwood forest (*Populus balsamifera* spp. *trichocarpa* [Torr. & Gray ex Hook.] Brayshaw) dominate the vegetation along the floodplain reaches of the lower valley floor (4th- and 5th-order reaches) for a total of 16% of the riparian zone. Although hybrid Lutz spruce (*Picea glauca* x *sitchensis*) were present in the study area, we considered them to be synonymous with white spruce due to the difficulty of distinguishing between these taxa in the field. The spruce forest was essentially a monoculture, but cottonwood stands contained a substantial number of spruce and lesser amounts of mountain alder (*Alnus tenuifolia* Nutt.).

Two large floods during the fall of 2002 undoubtedly influenced the abundance and

Rinella, D.J. et al. Large Woody Debris and Salmonid Habitat in the Anchor River Basin, Alaska

Site Name: SFANC54 - Beaver Creek Date: 10-4-04 Crew initials: MB, JM, MK Page 1 of 1

Bottom of Reach Average GPS Position: N59.74205 W151.30045 Accuracy: 15.6 ft Count: T265 B258

Top of Reach Average GPS Position: N59.74248 W151.29768 Accuracy: 23.88 ft Datum: NAD83

# of Undercut LWD trees: Left Bank 111 DEAD SPRUCE Right Bank

could add DVP

59°44'31.3794"
-151°18'1.62"

SLOPE = 1.5

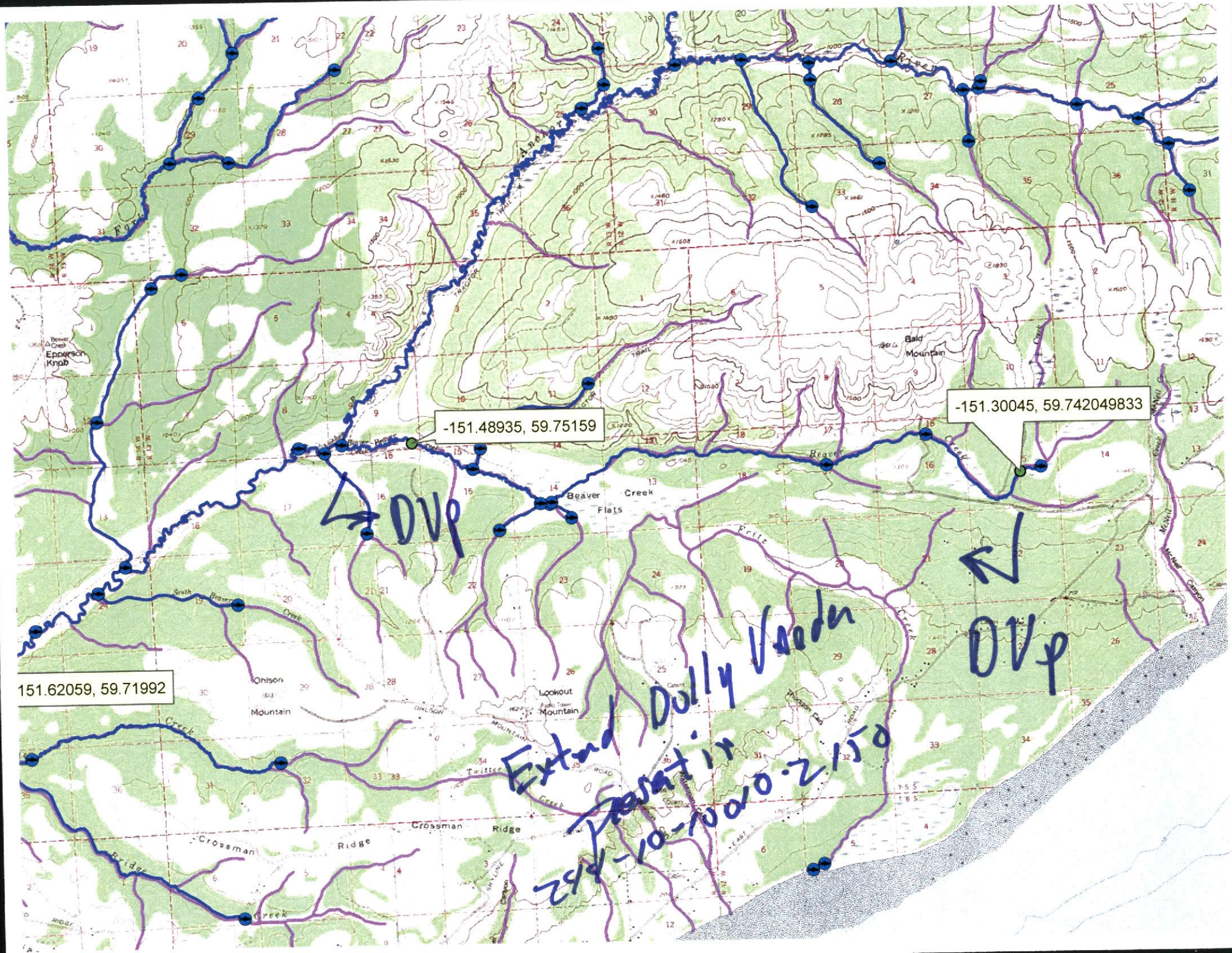
Debris Jams

#	Length (M)	% of Bankull Width	Distance(M)	# of LWD Pieces	Flag

Wood Tally

wood #	species	diameter (≥10cm)	length (≥2m)	source	position	decay class	root wad (y/n)	debris jam (y/n)	habitat unit	zone(s)	flag
1	HNK	11	1.6	BAER	PERP	3	Y	N	RT	1,2	
2	PIGL	25	5.1	BAER	ANDO	5	Y	N	RT	1,2	BEETLE KILL FZ
3	PIGL	42	7.0	BAER	ANDO	7	Y	N	PD	1-4	F1 BEETLE KILL FZ
4	PIGL	19	2.1	BAER	PARA	4	Y	N	PP	2,3	BEETLE

FLAG	COMMENTS
F1	2 liters At 1m From
F2	From VEG Plot


-151.48935, 59.75159
-151.30045, 59.742049833
151.62059, 59.71992
DVp
DVp
Extend Dolly Varden
Present in
2018-10-2020-2150
Beaver Creek Flats
Bald Mountain
Epperson Knob
Onison Mountain
Lookout Mountain
Crossman Ridge
Pritz Creek
McNeil Canyon