

State of Alaska  
 Department of Fish and Game  
 Nomination for Waters  
 Important to Anadromous Fish

Region ARCTIC  
WESTERN ↓

USGS Quad DELONG MOUNTAINS A-2

Anadromous Water Catalog Number of Waterway 331-00-10060-2120-3200

Name of Waterway Buddy Creek  USGS Name  Local Name

Addition  Deletion  Correction  Backup Information

For Office Use

Nomination # <u>97 048</u>	<u>[Signature]</u>	<u>12-3-96</u>
Revision Year: <u>97</u>	Regional Supervisor <u>G. Kelly</u>	Date <u>2/13/97</u>
Revision to: Atlas <input checked="" type="checkbox"/> Catalog <input type="checkbox"/>	<u>[Signature]</u>	Date <u>12/3/97</u>
Both <input type="checkbox"/>	AWC Project Biologist <u>[Signature]</u>	Date <u>12/3/97</u>
Revision Code: <u>B-2 E-7</u>	Drafted	Date

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
<u>DOLLY VANDEN</u>	<u>JULY 1996</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
<u>DOLLY VANDEN</u>	<u>JULY 1996</u>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>

**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:

SEE ATTACHED TRIP REPORT

Name of Observer (please print)

Date: 12-3-96

Signature:

Address:

AL TOWNSEND  
[Signature]  
1300 College Road  
FAIRBANKS, AK 99709

ALASKA DEPT. OF FISH & GAME

DEC 23 1996

REGION II HABITAT AND RESTORATION DIVISION

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 Catalog of Waters Important for Spawning, Rearing or Migration of Anadromous Fishes per AS 16.05.870.

Signature of Area Biologist:

[Signature]

# STATE OF ALASKA

TONY KNOWLES, GOVERNOR

## DEPARTMENT OF FISH AND GAME

HABITAT & RESTORATION DIVISION

1300 COLLEGE ROAD  
FAIRBANKS, ALASKA 99701-1599  
PHONE: (907) 459-7289  
FAX: (907) 456-3091

July 26, 1996

Ms. Jacqueline Lundberg, Environmental Coordinator  
Cominco Alaska Inc.  
Red Dog Mine  
P.O. Box 1230  
Kotzebue, AK 99752

Dear Ms. Lundberg:

RE: Red Dog Studies

Enclosed is our trip report summarizing fisheries work done from July 12 to 19, 1996. Adult Dolly Varden were present in Ikalukrok Creek below Dudd Creek and in Buddy Creek. Numbers of juvenile Dolly Varden were low in all sample reaches. Juvenile Dolly Varden and slimy sculpin were present in Mainstem Red Dog Creek. Young-of-the-year Arctic grayling were abundant in North Fork Red Dog Creek and young-of-the-year also were observed in Ikalukrok Creek just below the mouth of Mainstem Red Dog Creek. Arctic grayling adults were captured and marked in Ikalukrok, North Fork Red Dog, Mainstem Red Dog, and Buddy Creeks. Our thanks again to Mr. Kulas for providing logistical support. If you have any questions please contact either me or Phyllis Weber Scannell at 459-7289.

Sincerely,



Alvin G. Ott, Regional Supervisor  
Habitat and Restoration Division  
Alaska Department of Fish and Game

Enclosure

cc: Charlotte MacCay, Cominco Alaska Inc, Anchorage  
John Rense, NANA, Anchorage  
Jim Kulas, Cominco Alaska Inc, Red Dog  
John Martinisko, Cominco Alaska Inc, Red Dog  
Jake Wells, Cominco Alaska Inc, Red Dog  
Bert Adams, Mayor, Kivalina  
Walter Russell, NWAB, Kotzebue  
Pete McGee/Joyce Beelman, ADEC, Fairbanks  
Susan Braley, ADEC, Juneau  
Kathleen Collins, EPA, Seattle

**RED DOG FIELD TRIP**  
**AL TOWNSEND AND BILL MORRIS**  
**JULY 12 TO 19, 1996**

Minnow traps were set in Middle Fork, Mainstem, and North Fork Red Dog Creeks, Buddy Creek below the waterfall, Anxiety Ridge Creek, Evaingiknuk Creek, and in Ikalukrok Creek (upstream and downstream of Dudd Creek and upstream and downstream of Mainstem Red Dog Creek). Sample sites are shown in Figure 1.

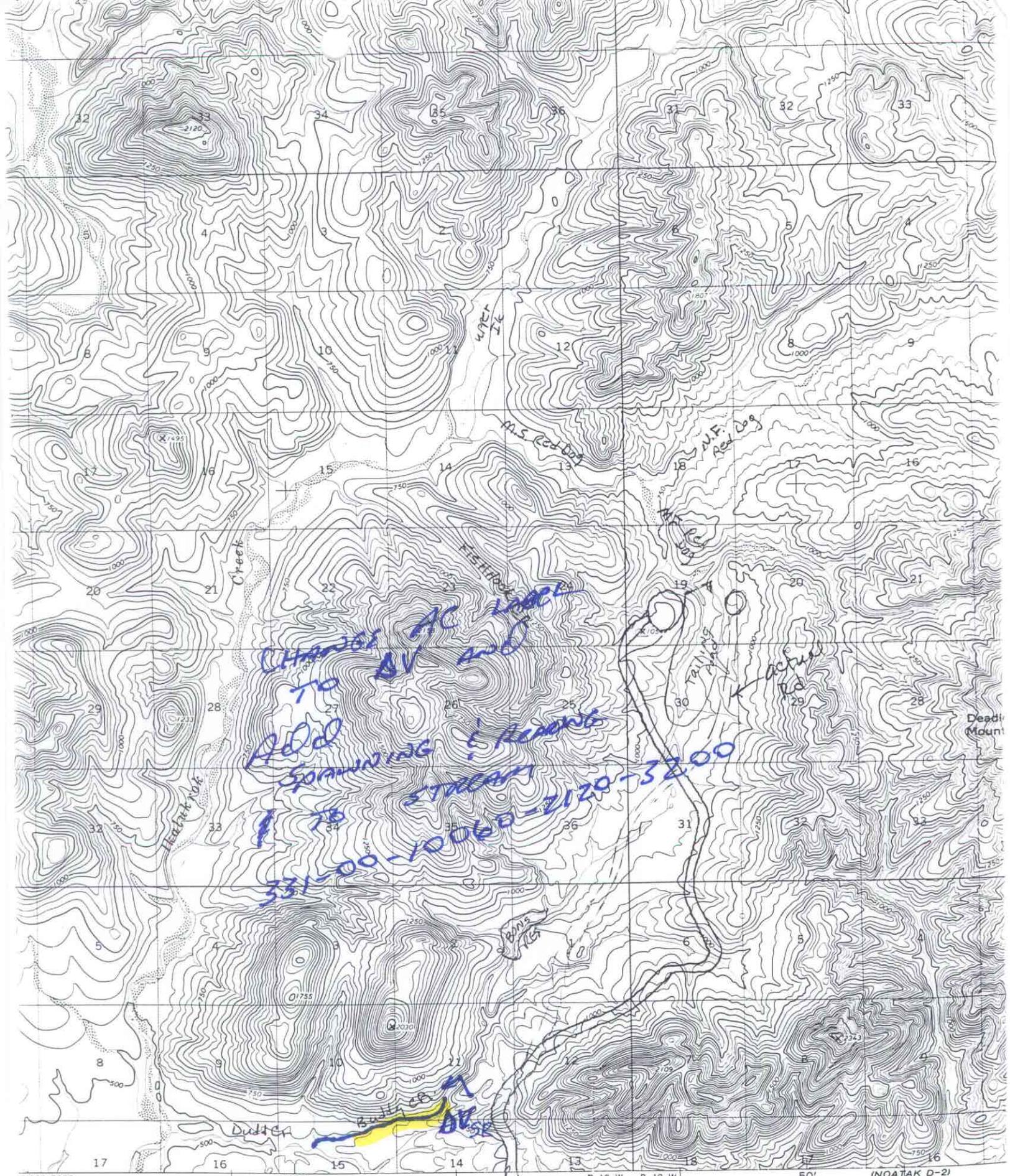
Juvenile Dolly Varden were captured in Anxiety Ridge, Evaingiknuk, Buddy, Mainstem Red Dog, and Ikalukrok Creeks. Catch rates were low. The highest catch occurred in Buddy Creek (Table 1). Catch rates of juvenile Dolly Varden generally were lower than in previous sample years. One slimy sculpin and 4 juvenile Dolly Varden were found in Mainstem Red Dog Creek.

Adult (prespawners) Dolly Varden were present in Buddy (below the waterfall) and Ikalukrok Creeks. Nine Dolly Varden were caught and tagged in Ikalukrok Creek immediately downstream of the mouth of Dudd Creek (Table 2). In 1995, an adult Dolly Varden also was seen in Buddy Creek. Presence of adult Dolly Varden in Buddy Creek in July indicates that spawning probably occurs in Buddy Creek. Past field work by the department had documented Dolly Varden spawning in Dudd Creek below the confluence of Buddy and Anxiety Ridge Creeks.

Arctic grayling were caught and tagged in Buddy, Mainstem Red Dog, North Fork Red Dog, and Ikalukrok Creeks (Table 3). We caught 12 in Ikalukrok (4 just upstream of Mainstem Red Dog Creek and 8 just downstream of Dudd Creek), 18 in Buddy, 36 in North Fork Red Dog, and 7 in Mainstem Red Dog Creeks. Fish in Ikalukrok Creek at Dudd Creek averaged 416 mm fork length (fl). Average size of Arctic grayling collected

Table 1. (Continued).

Stream Name	Sample Period	Number of Traps	Water Temperature	Number of Dolly Varden	
Mainstem Red Dog (below North Fork)	6/26-29/95	10	10.5°C	5	
	7/17-20/95	10	13.0°C	10	
	8/11-14/95	10	12.4°C	3	
	6/13-16/96	10	9.1°C	0	
	7/13-14/96	10	11.9°C	3	
	North Fork Red Dog	6/27-28/94	10	10.0°C	0
7/26-27/94		10	11.3°C	0	
8/30-31/94		10	4.0°C	0	
6/26-29/95		10	10.5°C	1	
7/17-20/95		10	11.5°C	1	
8/11-14/95		10	12.3°C	1	
6/13-16/96		10	8.5°C	0	
7/13-14/96		10	9.9°C	0	
Buddy		6/14-16/96	10	5.4°C	0
		7/12-13/96	10	11.0°C	18
Ikalukrok (Below Dudd Creek <sup>1</sup> )	7/27-28/94	10	11.5°C	3	
	6/27-28/95	10	7.7°C	2	
	7/18-19/95	10	9.6°C	11	
	8/12-13/95	10	12.7°C	15	
	6/17-18/96	10	5.4°C	0	
	7/17-18/96	10	7.6°C	1	



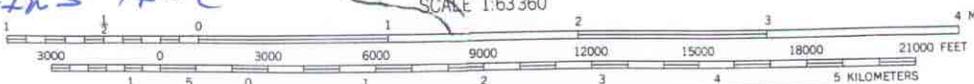
CHANGE AC WADK  
TO AV AND  
ADD  
SPANNING & READING  
STATION  
331-00-10060-2120-3200

actual rd

DELONG MOUNTAINS A-2

SCALE 1:63360

0 10000 FEET 163° R. 19 W. R. 18 W 50' 16



CONTOUR INTERVAL 50 FEET