State of Alaska
Department of Fish and Game
Sportfish Division

Nomination Form
Fish Distribution Database

Region: Three

USGS Quad(s): Big Delta A-4; Quad No. 095

Fish Distribution Database Number of Waterway: 334-40-11000-2490-3412

Name of Waterway: Clearwater Lake Outlet ☐ USGS Name ☑ Local Name

☑ Addition ☐ Deletion ☐ Correction ☑ Backup Information

For Office Use

Nomination # 11-213	ADF&G Fisheries Scientist — Date
Revision Year: 2012	ADNR OHMP Operations Mgr. — Date
Revision to: Atlas ____ Catalog ____ Both ____	FDD Project Biologist — Date: 9 May 11
Revision Code: F-1	Cartographer — Date

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
CO spawning/rearing	1972-2011	yes	yes	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:

Clearwater Lake Outlet Stream documentation for spawning and rearing coho salmon is attached in a seperate word document (Clearwater Lake Outlet.doc), includes pictures and a coho data table. ADF&G has conducted surveys of the outlet since 1972. A portion (~10%) of this count is at the head of the outlet and within Clearwater Lake. Chum Salmon are also observed in the Clearwater Outlet. In years when counts for Chums are high they are found more extensively in the outlet, but for most years they are located up to where Clearwater Lake Outlet Slough joins Clearwater Lake Outlet. In addition, extensive rearing area exists throughout the Oulet area, Clearwater Lake Outlet Slough and surrounding area as the Tanana River water level rises during the summer and causes the wetland areas also to rise in water level. Due to the spring-fed nature of Clearwater Lake, the water is warmer and adequate volume of flowing water provide rearing habitat for juvenile salmon which spend 2-3 years in fresh water before smolting.

Supports existing AWC data

Name of Observer (please print): James F. Parker

Signature: _____ Date: 3/15/2011

Agency: ADF&G - Sport Fish

Address: Box 605
Delta Junction, AK 99737

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 Fish Distribution Database.

Signature of Area Biologist: _____ Date: _____ Revision 02/05

Name of Area Biologist (please print):

Johnson, J D (DFG)

From: Parker, Fronty (DFG)
Sent: Monday, May 02, 2011 10:35 AM
To: Johnson, J D (DFG)
Subject: Clearwater Lake Outlet (3342-40-110000-2490-3412)
Attachments: Clearwater Lake outlet 03-15-2011.xls; Clearwater Lake outlet.doc

Adding coho survey data to Clearwater Lake Outlet.
-Fronty

DELTA CLEARWATER RIVER AERIAL SURVEY
NAMES OF SPRINGS SURVEYED AND COHO COUNTS

No.	IDENTIFICATION NAME	AWC # (numbers in Red are new)	1994	1995	1996	1997	1998	DESCRIPTION OF LOCATION
1	**SAWMILL CREEK**	334-40-11000-2490-3416-4020	19,125	4,700	4,275	3,050	2,625	headwaters to Mile 14
2	**ANDERSEN**	334-40-11000-2490-3416-4020-5030	25	8	25	0	0	south spring into Sawmill
3	**GRANITE**	334-40-11000-2490-3416-4020-5020	250	150	0	25	50	headwaters to Sawmill
4	**South Clearwater Tributary**	334-40-11000-2490-3416-4030-5007	1,700	400	300	125	575	headwaters to Reed Lake
5	**Clearwater Creek**	334-40-11000-2490-3416-4030	8,525	2,525	1,425	1,300	1,150	headwaters to confluence of Sawmill Cr.
6	**PECKHAM**	334-40-11000-2490-3416-4030-5004	100	50	0	0	0	spring on north side of Clearwater cr
9	**FRONTY**	334-40-11000-2490-3416-4020-5014	175	175	0	25	0	first spring below Granite-south side
10	**JAN**	334-40-11000-2490-3416-4020-5014-0010	200	150	0	0	0	between Fronty and Jesse
11	**JESSE**	334-40-11000-2490-3416-4020-5010	250	50	0	0	25	south side of Sawmill Creek
12	**JENNIE**	334-40-11000-2490-3416-4030-5002	25	25	25	0	0	north side-near mouth of CH20-DCR
13	**CHAD**	334-40-11000-2490-3416-4021	100	25	0	0	0	south side of DCR
14	**BUNS**	334-40-11000-2490-3416-4020	200	75	0	0	0	south side of DCR
15	**PATTY**	334-40-11000-2490-3416-4019	20	0	0	0	0	north side of DCR
16	**DAVE**	334-40-11000-2490-3416-4018	25	0	0	0	0	north side of DCR
17	**TRAVIS**	334-40-11000-2490-3416-4017	175	75	50	25	0	north side of DCR
18	**REMMINGTON**	334-40-11000-2490-3416-4016	not surveyed	100	0	0	0	south side of DCR
19	**DUBOIS**	334-40-11000-2490-3416-4015	10	0	200	25	125	south side of DCR
20	**CHRISTIE**	334-40-11000-2490-3416-4014	25	225	150	125	75	north side of DCR
21	**CALEB**	334-40-11000-2490-3416-4013	325	325	25	25	125	north side of DCR across from camp
22	**ISAAC'S SLOUGH**	334-40-11000-2490-3416-4012	700	225	250	25	0	between Caleb and Parker-north side
23	**PARKER**	334-40-11000-2490-3416-4011	775	200	50	0	50	north side of DCR
24	**KENNA**	334-40-11000-2490-3416-4010	350	100	0	0	0	north side of DCR
25	**DOS GRIS**	334-40-11000-2490-3416-4009	not surveyed	0	75	125	100	south side of DCR (Gartz)
26	**BARB**	334-40-11000-2490-3416-4008	90	25	0	0	0	north side of DCR
27	**BACKY**	334-40-11000-2490-3416-4007	15	0	0	0	0	south side of DCR (Forck)
28	**RIDDER**	334-40-11000-2490-3416-4006	300	125	50	25	25	north side of DCR
29	**PEARSE**	334-40-11000-2490-3416-4005	1,175	150	75	125	50	South side of DCR connects at mile 3
30	**HODGES**	334-40-11000-2490-3416-4004	not surveyed	25	0	0	25	north side of DCR
31	**STUGA**	334-40-11000-2490-3416-4003	not surveyed	100	25	25	0	south side of DCR (Al Svenston)
32	**SALMON ALLEY**	334-40-11000-2490-3416-4002	not surveyed	350	50	50	25	Loop of north side of DCR
33	**MALLARD**	334-40-11000-2490-3416-4001	5	25	0	0	0	north side of DCR, above mile one
34	**MAINSTEM MILE 0-14**	334-40-11000-2490-3416	45,500	11,475	8,225	7,250	8,850	Mouth of DCR to Tanana to mile 14
35	**Total Delta Clearwater River**		80,165	21,858	15,275	12,350	13,875	Total estimated escapement
			0.57	0.52	0.54	0.59	0.64	
			0.57					

Clearwater Lake Outlet (common name)
Anadromous stream catalog number_ 3342-40-110000-2490-3412

Description: Clearwater Lake outlet is 1.3 miles in length (see figure 1&2); it connects (64° 6' 23.678"N, 145° 35' 49.891"W to the Tanana River in an adjoining slough of the Tanana River a short distance from the main channel Tanana River. The coordinates for the Outlet of Clearwater Lake is 64° 6' 34.692" N, 145° 35' 43.229" W).

Anadromous species present: Coho salmon (spawning and rearing), Chum salmon (spawning);

Other Species; least cisco, round whitefish, humpback whitefish, Arctic grayling, long nose suckers, slimy sculpins and northern pike that migrate from the Tanana River into the Clearwater Lake.

Anadromous species data collection: The Chum and Coho survey data collected mostly by ADF&G staff in Delta Junction from 1972-2006 is specific for the Clearwater Lake outlet. Table 1, is survey data summarized to date (10/12/2007) from ADF&G Sport Fish files and published data from Commercial Fisheries Division in the following published report see link below ("2006 fall season preliminary summary"). The published data appears in this report in Table 7 "Coho salmon escapement for selected spawning areas, Yukon River drainage, 1972-2006."

http://www.cf.adfg.state.ak.us/region3/finfish/salmon/catchval/06yukflsum.pdf

Table 1. Coho and Chum salmon escapement estimates for Clearwater Lake outlet, 1972-2006.

Year	Coho Salmon (spawners) Clearwater Lake Outlet	Chum Salmon (spawners) Clearwater Lake Outlet
1972	417	
1973	551	
1974	560	
1975	1,575	
1976	1,500	
1977	730	
1978	570	
1979	1,015	
1980	1,545	
1981	459	
1982		
1983	253	
1984	1,368	
1985	750	
1986	1,800	
1987	4,225	
1988	825	
1989	1,600	200
1990	2,375	0
1991	3,150	300
1992	229	
1993	550	0
1994	3,425	25
1995	3,625	800
1996	1,125	150
1997	2,775	50
1998	2,775	15
1999	na	na
2000	1,025	0
2001	4,425	0
2002	5,900	2
2003	8,800	2,000
2004	2,925	400
2005	2,100	200
2006	4,375	75
Averages		
1977-2006	2,101	248
2002-2006	4,820	535

Figure1. Clearwater Lake Outlet.

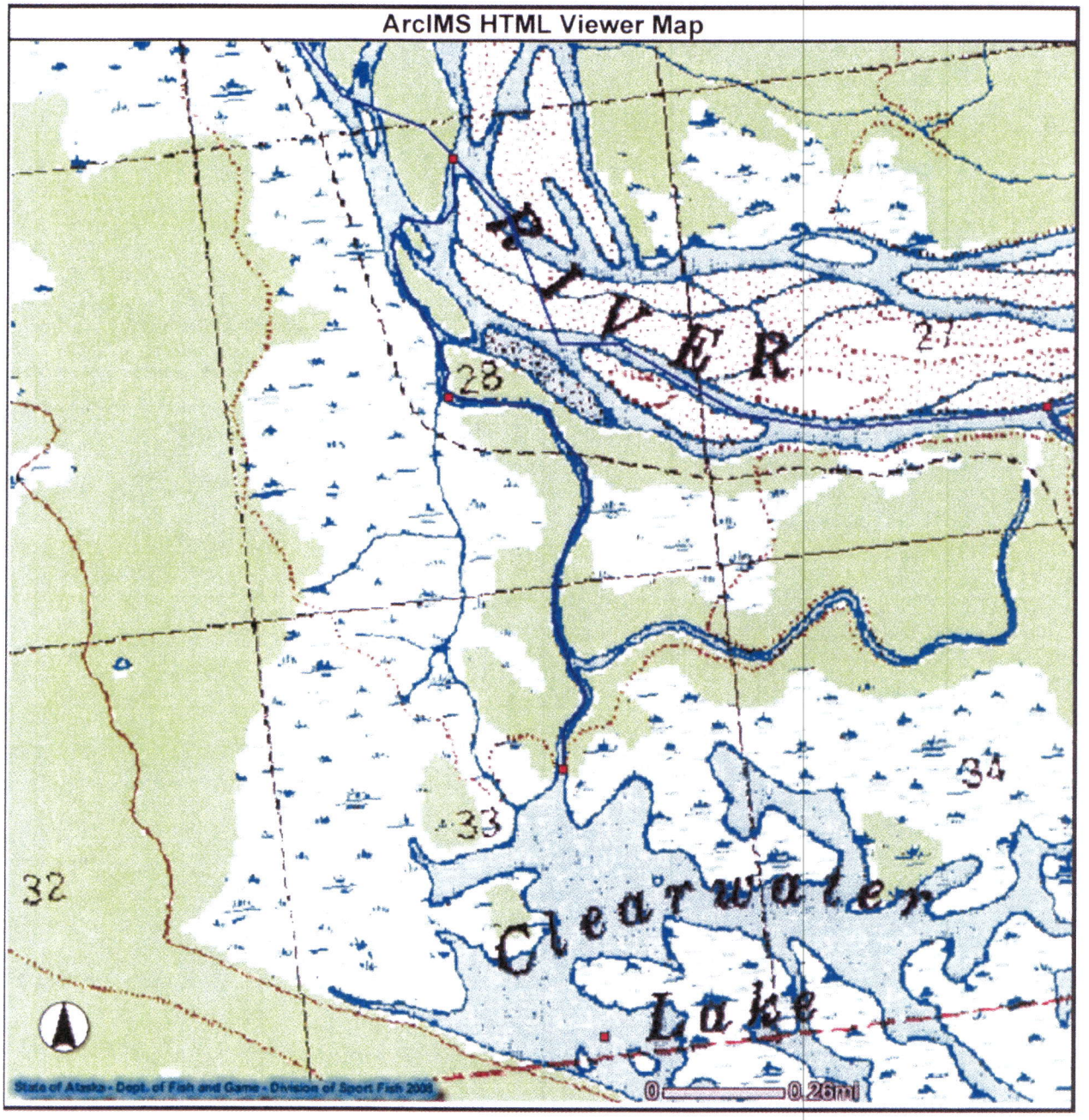
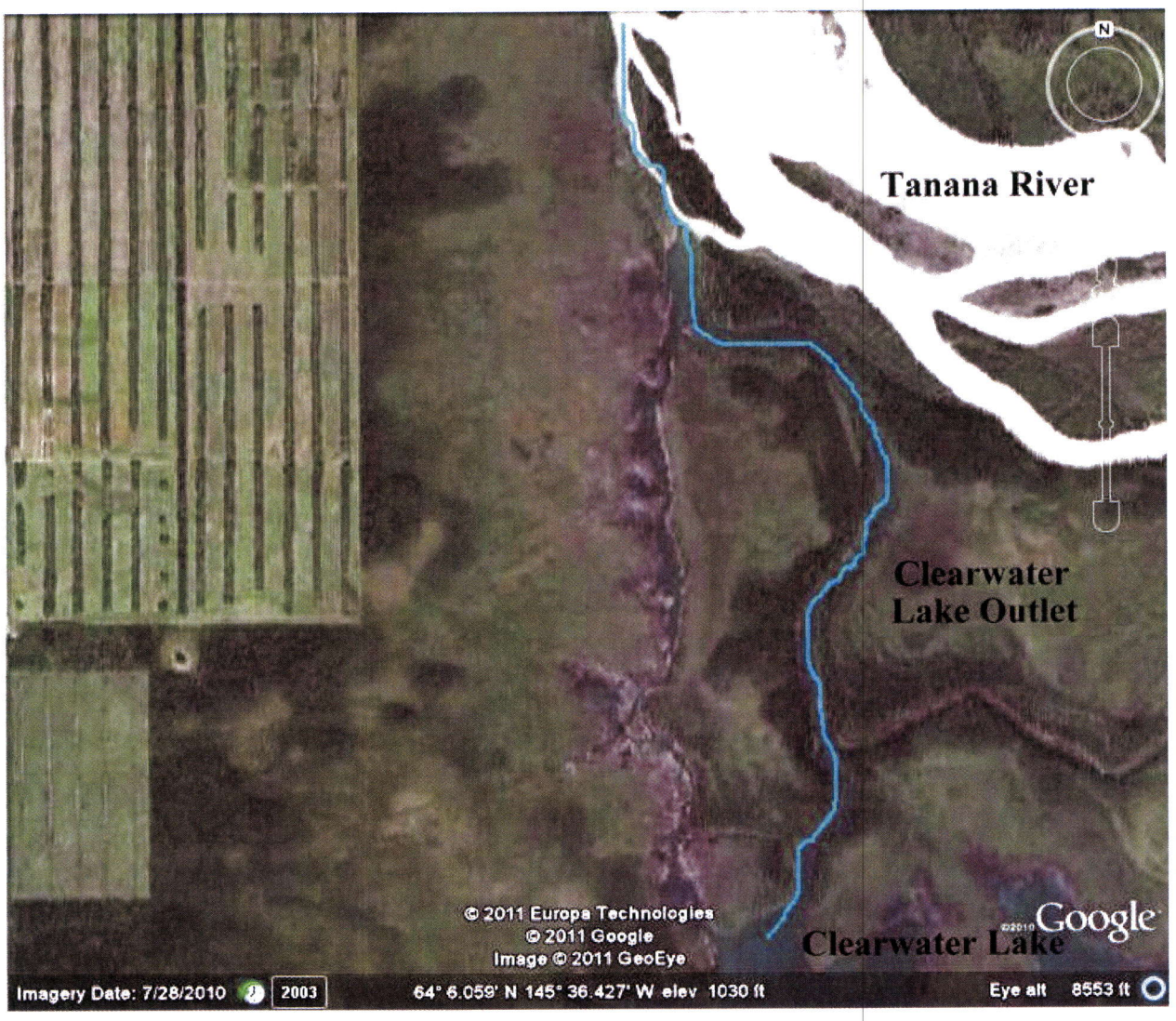
Figure2. Clearwater Lake Outlet, Google Earth photo. Clearwater Lake Outlet with Blue line.