



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

Nomination Form
Anadromous Waters Catalog

M

Region Southcentral USGS Quad(s) Seward D-6 *n-6 NW*

Anadromous Waters Catalog Number of Waterway 247-60-10245-0010

Name of Waterway Seward Highway MP 87 Pond USGS Name Local Name

Addition Deletion Correction Backup Information

For Office Use

Nomination # <u>11-396</u>	<u>[Signature]</u> Fisheries Scientist	<u>10/14/11</u> Date
Revision Year: <u>2012</u>	<u>[Signature]</u> Habitat Operations Manager	<u>10/14/11</u> Date
Revision to: Atlas _____ Catalog _____ Both <u>X</u>	<u>[Signature]</u> AWC Project Biologist	<u>9/27/11</u> Date
Revision Code: <u>A-2</u>	<u>[Signature]</u> Cartographer	<u>11/14/11</u> Date

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Juvenile coho	7/20/2006 and 8/1/2006		X		<input checked="" type="checkbox"/>
Dolly Varden	7/20/2006 and 8/1/2006			X	<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 Figures 1 through 5.

add new stream & lake w/ coho salmon rearing

Name of Observer (please print): William Frost Date: 9/22/2011

Signature: [Signature]

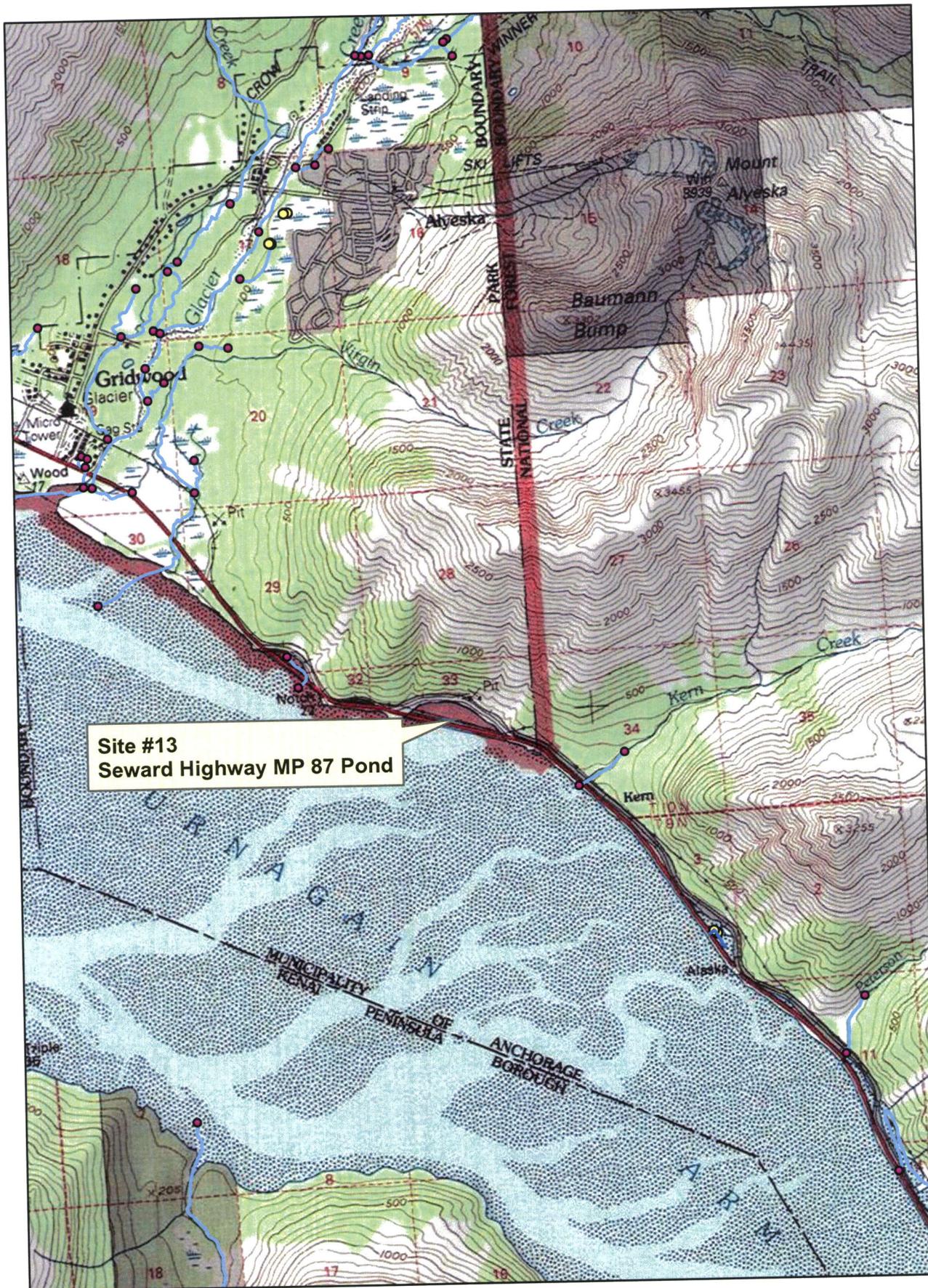
Agency: ADF&G, Division of Habitat

Address: 333 Raspberry Road
Anchorage, AK 99518

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 05/08

Name of Area Biologist (please print): _____



Site #13
Seward Highway MP 87 Pond

Figure 1



ADF&G

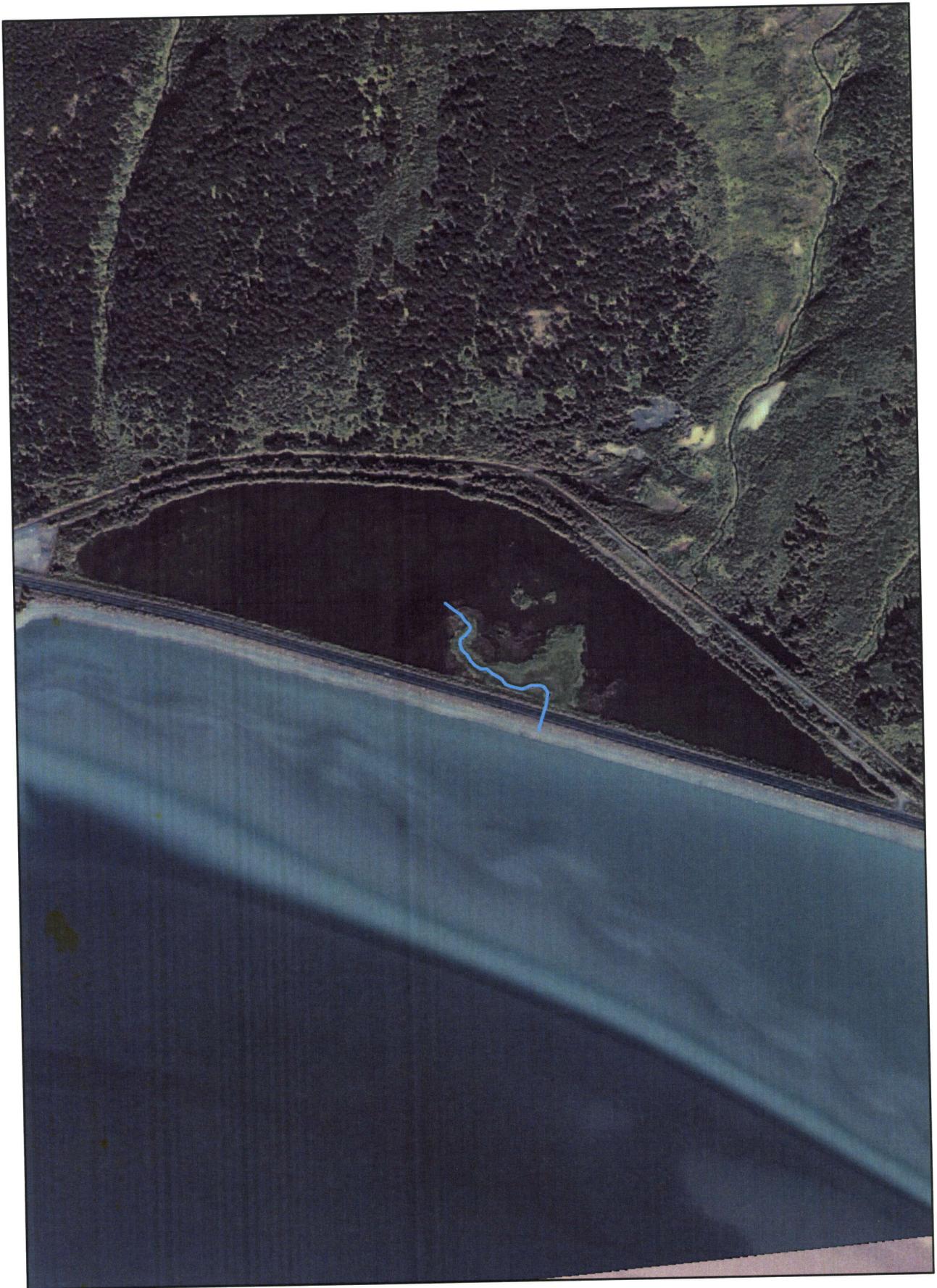
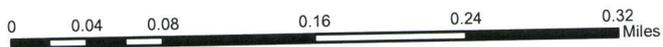


Figure 2



ADF&G



Seward Highway MP 75-90

Road and Bridge Rehabilitation Project

2006 Freshwater Fish Assessment

Final

Project Number : BR-BH-NH-OA3-1(35)/58105/41858

March 1, 2007



*Alaska Department of Transportation
and Public Facilities*



Figure 3

Table 1. Summary of anadromous fish presence in the Seward Highway 75-90 project area according to the Alaska Catalog of Waters Important for the Spawning, Rearing or Migration of Anadromous Fishes

Stream Name	ADF&G Catalog No.	Anadromous Species																		
		Coho			Pink			Chum			Chinook			Sockeye			Dolly Varden			
		S	R	P	S	R	P	S	R	P	S	R	P	S	R	P	S	R	P	
Ingram Creek	247-60-10190			X	X				X											X
Site #2	247-60-10190-2005						X													
Site #5	247-60-10235		X																	
	247-60-10242		X															X		X
Peterson Creek	247-60-10242				X															X
Kern Creek	247-60-10244					X			X											X
	247-60-10246		X																	
Virgin Creek	247-60-10248	X	X				X		X											
Site #16	247-60-10248-2020		X																	
Glacier Creek	247-60-10250		X	X			X		X	X	X	X			X					
Glacier Creek	247-60-10250-2004		X																	
Glacier Creek	247-60-10250-2003-3005		X																	
Tidewater Slough	247-60-10253		X									X								

S = Spawning, R = Rearing, P = Present

Field Methods

Field methods used to determine fish presence in the study area and document fish species composition and relative abundance included direct observation via visual foot surveys to enumerate adult salmon and minnow trapping to capture juvenile fish. Study methods were reviewed by ADF&G and a fish resource permit (SF2006-152) was issued by ADF&G prior to conducting fieldwork (Appendix A).

Minnow trapping surveys were completed at 17 sites within the study area (Figure 2). Traps were set from July 19 to 20, July 31 to August 2, August 30 to August 31, and September 26 to September 27, 2006. Minnow trapping was conducted in freshwater habitats within the highway corridor by setting ¼-inch mesh minnow traps baited with cured salmon eggs. In some lakes and wetland areas, traps were set beyond 200 ft of the road corridor to allow for a more representative sample of the water body. Minnow traps were fished for approximately 24 hours. All captured fish were identified to species, counted, and measured for fork length before being returned alive at the capture site. Fish capture data including trap placement and removal times are provided in Appendix B.

Foot surveys were completed at nine streams within the study area using two-person field team (Figure 2). Surveys were conducted June 13-14, July 19-21, July 31-August 2, and August 30-September 1, 2006. Foot surveys were conducted for spawning salmon both 200 ft upstream and downstream from the point where the stream intersected the highway. Polarized sunglasses were used to maximize the effectiveness of this approach. Fish were recorded as being up- or down stream of the road crossing and redds and/or spawning activity or behavior were noted, if observed. Time and date of surveys is provided in Appendix C.

RESULTS AND DISCUSSION

Over the course of the study 17 sites were minnow trapped for juvenile fish and nine sites were surveyed for adult fish and subsequent spawning activity. A total of seven fish species were identified during the minnow trapping and spawning survey efforts, including pink salmon (*Oncorhynchus gorbuscha*), coho salmon (*O. kisutch*), Chinook salmon (*O. tshawytscha*), Dolly

Figure 4

Site #6

Site #6 is a pond located east of the highway and railroad and north of milepost 83. The site is separated from Site #7 by an earthen embankment on its north end. A culvert under the railroad and highway near the north end of Site #6 connects the pond to Turnagain Arm. Minnow trapping was conducted during three sampling events (8/1/06, 8/2/06 and 9/27/06) and juvenile coho and three-spine stickleback were captured.

Site #7

Site #7 is a pond located east of the highway and railroad and north of milepost 83. The site is separated from Site #6 by an earthen embankment on its south end. A culvert under the railroad and highway near the south end of Site #7 connects the pond to Turnagain Arm. Minnow trapping was conducted during two sampling events (8/2/06 and 9/27/06); juvenile coho, Dolly Varden and three-spine stickleback were captured.

Site #8

Site #8 is a small wetland area located south of Peterson Creek near milepost 84. The site was sampled once using minnow traps (8/2/06) and no fish were captured. No connectivity between Site #8 and Peterson Creek was found and therefore no additional sampling was conducted.

Peterson Creek, Site #9

Peterson Creek is bridged by the Seward Highway just north of milepost 84. Spawning pink salmon have been documented in the creek by earlier studies (ADF&G 2006). Four spawning surveys were conducted at the creek (7/19/06, 8/1/06, 9/1/06, and 9/20/06); however, no adult fish were observed. Minnow trapping conducted on 7/19/06 and 8/1/06 captured nine-spine stickleback, juvenile coho salmon and Dolly Varden.

Site #10

Site #10 is a small slough located approximately midway between mileposts 84 and 85. Minnow trapping was conducted on 8/2/06; three-spine stickleback was the only species captured.

Site #11

Site #11 is a pond and wetland area that is approximately 2/3 of a mile in length and located between milepost 85 and 86. Minnow trapping was conducted on 8/2/06 and three-spine stickleback and Dolly Varden were captured.

Kern Creek, Site #12

Kern Creek flows under the railroad and highway through two large culverts located between mileposts 86 and 87; pink, chum and coho salmon have been documented during past surveys (ADF&G 2006). Four spawning surveys (7/19/06, 8/1/06, 9/1/06, and 9/20/06) and one minnow trapping effort (7/19/06) were conducted at Kern Creek; however, no fish were observed during the survey or trapping efforts.

Site #13

Site #13 is a large pond located adjacent to milepost 87. Minnow trapping was conducted on 7/20/06 and 8/1/06 and three-spine stickleback, juvenile coho salmon and Dolly Varden were captured.

1029

1029

1029

Add new stream 247-60-10295

and lake 10295-2010 w/ calculation

Reading