

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

AWC Volume SE SC SW W AR IN USGS Quad Craig B-3

Anadromous Water Catalog Number of Waterway 102-60-10720-2004

Name of Waterway Cave Creek USGS name X Local name

Addition Deletion Correction X Backup Information

For Office Use GIC # 115/1000

Nomination # <u>99 323</u>	<u>Jana Sanders</u> Regional Supervisor	<u>12-23-99</u> Date
Revision Year: <u>00</u>	<u>Ed Wein</u>	<u>1/20/00</u>
Revision to: Atlas <u> </u> Catalog <u> </u> Both <u>X</u>	DRAFTED REGION II Date	
Revision Code: <u>D-1 B-1</u>		

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Migration	Anadromous
Pink	9-3-99	2000+			Yes
Chum	9-3-99	75+			Yes
Coho	8-5-99		3		Yes
Dolly Varden	8-5-99		20+		Unknown

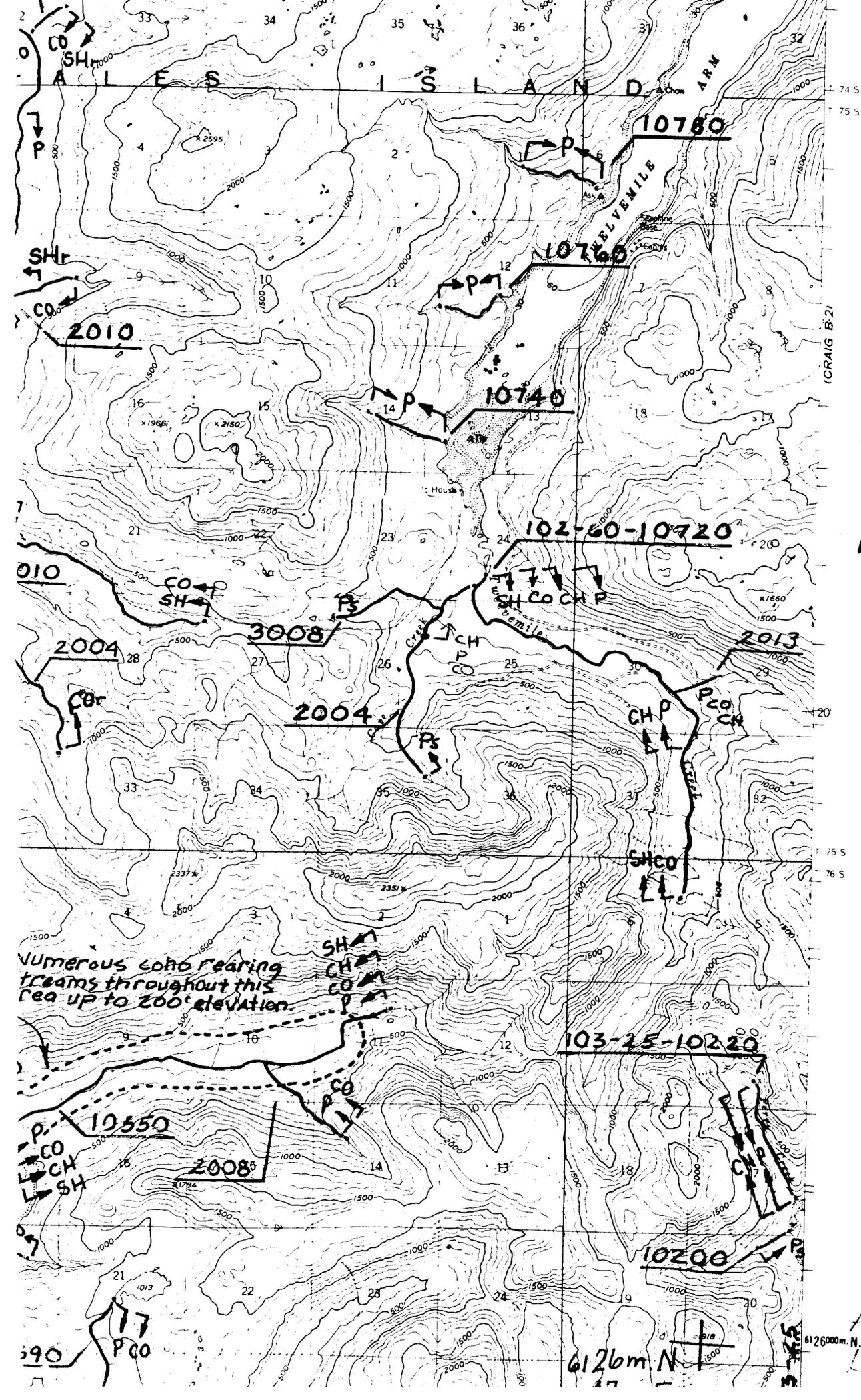
IMPORTANT: Provide all supporting documentation that this water body is important for the spawning, rearing or migration of anadromous fish, including: number of fish and life stages observed; sampling methods, sampling duration and area sampled; copies of field notes; etc. Attach a copy of a map showing location of mouth and observed upper extent of each species, as well as any other information such as: specific stream reaches observed as spawning or rearing habitat; locations, types, and heights of any barriers; etc.

Comments: See Attachment
Action Recommended. Delete over 1 mile of Pink spawning habitat.
Also add coho and chum salmon.

Name of Observer (please print) Steven McCurdy
 Date: 9-16-99 Signature: Steven McCurdy
 Address: PO Box 668
Craig Alaska 99921

This certifies that in my best professional judgement 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: Maria A. Single



MEMORANDUM

State of Alaska DEPARTMENT OF FISH AND GAME

FROM: Steven McCurdy
Habitat Biologist
Habitat and Restoration Division
Craig

Date: September 16, 1999

RE: Cave Creek

On September 3, 1999 I inspected Cave Creek (number 102-60-10720-2004, cataloged for pink salmon), a tributary to Twelvemile Creek, to determine the upper extent of anadromous habitat. The stream flows generally northeast and enters Twelvemile Creek in the southwest corner of section 24, T75S, R83E, CRM.

PINK & CHUM

The Atlas currently shows the upper extent of pink salmon spawning to be almost two miles. In fact the upper extent of pink salmon habitat is far less. During the inspection I conducted on September 3, 1999 I started at the confluence of Cave Creek and Twelvemile Creek and surveyed upstream, observing spawning adult fish and recording distances with a hip chain. I observed over 2,000 spawning pink salmon and approximately 75 chum salmon in the lower 610 meters of stream. At 610 meters from the confluence there was a small 2 to 3-foot vertical falls created by a log across the stream. No fish were observed above this point, although I don't believe it was a barrier. Up to this point I would classify the stream as a MM (moderate gradient mixed control) channel type with a stream gradient from 1 to 4%. The average width of the stream is approximately 15 feet. The dominant substrate is gravel and the spawning habitat for anadromous salmonids is excellent.

At 733 meters there is a barrier to pink and chum salmon, that is approximately 7 feet high and is created by a logjam that has completely filled in with substrate (on the upstream side). The logjam is located in a narrow bedrock, canyon area of the stream and has the potential to remain in place for decades. Upstream of the logjam there is a permanent barrier to pink and chum salmon created by a bedrock and boulder falls at 1150 meters. There is almost no spawning habitat available between the logjam and the bedrock falls (except for the gravel backed upped by the logjam, and that would all wash down stream if the logjam ever opened up enough to allow pink and chum salmon upstream access). I would classify the stream channel in this section as a MC1 (moderate gradient contained) with a grade of approximately 5%. The dominant substrate is large cobble with lesser amounts of small cobble and boulders. There is almost no gravel present. The average width of the stream is 14 to 18 feet. There is a small tributary stream (it does not appear on the USGS maps) that enters Cave Creek from the west in this section that may provide some spawning habitat to pink salmon should they ever be able to gain access above the logjam. This tributary stream is approximately 3 feet wide and enters Cave Creek just below the bridge (2100 road)

September 16, 1999

Cave Creek

I have not had an opportunity to inspect stream # 102-60-10720-2004-3008, that is tributary to Cave Creek and cataloged for pink salmon, but hope to in the near future.