

Nomination for Waters  
Important to Anadromous Species

Year of Revision  
1990

Approved

Name of Waterway CROOKED CREEK  
334-40-11000-2490-  
 AWC# of Waterway 3151-4020-5185  
 AWC Volume & Number Interior VI  
 USGS Quad LIVONGOOD A-1

<u>M. H. H.</u>	<u>10/3/89</u>
Regional Supervisor	Date
<u>90 121</u>	
Drafted	

Addition \_\_\_\_\_ Correction \_\_\_\_\_  
 Deletion \_\_\_\_\_ Change \_\_\_\_\_  
 DATA X  
 Change to \_\_\_\_\_ Atlas  
 \_\_\_\_\_ Catalog  
 \_\_\_\_\_ Both

Species	Date(s) Observed	Spawning	Rearing	Migration
<u>ATTACHED</u>				

Comments: Provide any clarifying information, including number of fish observed, location of fish survey data, etc.

ATTACHED

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Attach a copy of a map showing location of mouth and upper points of each species, specific stream reaches identified for spawning or rearing, locations of barriers, such as falls. Attach a copy of the fish survey data, if available.

Name of Observer (please print) AL OTT AL TOWNSEND  
 Date: 10/3/89 Signature: [Signature] Alan H. Townsend  
 Address: 1300 Colledge Road  
Fairbanks, AK 99701

ALASKA DEPT. OF  
FISH & GAME

OCT 11 1989

REGION II  
HABITAT DIVISION

## CROOKED CREEK

Location - Livengood A-1, Section 6, T4N, R2E, FM

Sample Reach - 100 ft upstream of Steese Highway and below uppermost gabions, approximately 1/2 mile from Chatanika River

Sample Gear - electroshocker

Anadromous Catalog - sample reach in catalog

Description of Sample Reach and Observations - gravel with some cobble, minimal stream bank vegetation, stream channelized with gabion structures within active stream bed, approximate 3 ft waterfall at uppermost gabions, partial if not total block to fish passage, aquatic habitat rated #1

Sample on July 11, 1989 - water clear (45 F), discharge 5 cfs, 2 arctic grayling (190, 210 mm), 10 chinook salmon (47, 47, 46, 45 mm - 6 released without measurement), and 11 slimy sculpin collected and released, 12 plus arctic grayling observed in creek below waterfall in gabions

Sample on September 1, 1989 - water clear (38 F), discharge 5 cfs, 1 arctic grayling (132 mm), 24 chinook salmon (52, 51, 61, 67, 66, 51, 58, 54, 58, 63, 52, 53, 72, 50, 48, 66, 46, 53, 52, 56, 56, 54, 51, 52 mm), and 16 slimy sculpin collected and released

Summary of 1989 Sampling - anadromous fish habitat present with high use by juvenile chinook salmon documented, recommend retaining sample reach in catalog

## CROOKED CREEK

Location - Livengood A-1, Section 6, T4N, R2E, FM

Sample Reach - 150 ft immediately upstream of uppermost gabions

Sample Gear - electroshocker

Anadromous Catalog - sample reach not in catalog

Description of Sample Reach and Observations - cobble substrate with some stream side vegetation, waterfall at gabion structure immediately downstream of this sample reach, aquatic habitat rated #2

Sample on July 11, 1989 - water clear (45 F), discharge 5 cfs, 18 slimy sculpin collected and released

Summary of 1989 Sampling - anadromous fish habitat present but no documentation of use by anadromous fish, gabion waterfall limiting distribution of chinook salmon and other resident fish species in Crooked Creek, recommend no change to the catalog and a letter to ADOT/PF requesting remedial work to provide for efficient upstream and downstream movement of fishes