

Department of Fish and Game
 Nomination for Waters
 Important to Anadromous Species

Year of Revision
 1990

Approved

Name of Waterway SOURDOUGH CREEK

AWC# of Waterway 334-40-11000-2490-3151-4020-5293

AWC Volume & Number Interior III

USGS Quad CIRCLE B-5

Addition _____ Correction _____
 Deletion _____ Change _____

DATA X

Change to _____ Atlas _____
 _____ Catalog _____
 _____ Both _____

| | |
|---------------------|----------------|
| <u>AP Heltt</u> | <u>10/4/89</u> |
| Regional Supervisor | Date |
| <u>90 100</u> | |
| | |
| Drafted | |

| Species | Date(s) Observed | Spawning | Rearing | Migration |
|-----------------|------------------|----------|---------|-----------|
| <u>ATTACHED</u> | | | | |
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Comments: Provide any clarifying information, including number of fish observed, location of fish survey data, etc.

ATTACHED

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: Al Ott Al Townsend

Address: 1300 Colledge Road
Fairbanks, AK 99701

ALASKA DEPT. OF
 FISH & GAME

OCT 11 1989

REGION II
 HABITAT DIVISION

SOURDOUGH CREEK

Location - Circle B-5, Section 3, T5N, R6E, FM

Sample Reach - 300 ft reach starting immediately below Steese Highway, approximately 1/2 mile from Chatanika River

Sample Gear - electroshocker

Anadromous Catalog - sample reach in catalog

Description of Sample Reach and Observations - gravel and cobble substrate, minimal stream bank vegetation, no fish barriers observed, aquatic habitat rated #3

Sample on July 12, 1989 - water slightly turbid (48 F), discharge 15 cfs, 1 burbot (302 mm), 36 slimy sculpin, and 6 arctic grayling (137, 142, 165, 145, 189, 143 mm) collected and released

Sample on July 27, 1989 - water slightly turbid (49 F), discharge 20 cfs, 21 slimy sculpin, 2 arctic grayling (129, 185 mm), and 16 chinook salmon (52, 58, 54, 63, 62, 56, 60, 57, 65, 59, 59, 63, 62, 58, 58, 55 mm) collected and released from a subsample (150 ft) of sample reach, 1 of 2 arctic grayling was tagged (yellow tag number 0114)

Sample on September 1, 1989 - water clear (40 F), discharge 7 cfs, 13 slimy sculpin, 6 arctic grayling (146, 154, 203, 152, 224, 143 mm), and 7 chinook salmon (71, 71, 70, 73, 64, 67, 67 mm) collected from a subsample (150 ft) of sample reach

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

SOURDOUGH CREEK

Location - Circle B-5, Section 34, T5N, R6E, FM

Sample Reach - 200 ft reach located upstream of Ruby Creek, approximately 2 miles from Chatanika River

Sample Gear - electroshocker

Anadromous Catalog - sample reach in catalog

Description of Sample Reach and Observations - gravel/cobble substrate, overhanging vegetation with undercut banks, no fish barriers observed, aquatic habitat rated #3

Sample on July 13, 1989 - water slightly turbid (48 F), discharge 15 cfs, 1 round whitefish (256 mm), 16 slimy sculpin, and 15 arctic grayling (198, 251, 168, 245, 165, 182, 142, 142, 152, 132, 278, 270, 242, 183, 232 mm) collected, 5 of the 15 arctic grayling were tagged (yellow tag numbers 0102, 0108, 0141, 0145, 0101)

Summary of 1989 Sampling - anadromous fish habitat present but no documentation of use by anadromous fish, recommend no change to the catalog

SOURDOUGH CREEK

Location - Circle B-5, Section 22, T6N, R6E, FM

Sample Reach - 100 ft reach downstream of Bear Creek confluence with Sourdough Creek, approximately 3 miles from Chatanika River

Sample Gear - electroshocker

Anadromous Catalog - sample reach in catalog

Description of Sample Reach and Observations - gravel/cobble substrate, overhanging vegetation, no fish barriers observed, aquatic habitat rated #3

Sample on July 27, 1989 - water clear (43 F), discharge 15 cfs, 18 arctic grayling (144, 212, 126, 97, 124, 145, 133, 141, 146, 165, 136, 141, 131, 132, 142, 151, 146, 131 mm) and 12 slimy sculpin collected and released

Summary of 1989 Sampling - anadromous fish habitat present but no documentation of use by anadromous fish, recommend no change to the catalog