

AWC Volume SE (SC) SW W AR IN USGS Quad Seldovia A-5

Anadromous Water Catalog Number of Waterway 242-10-10200

Name of Waterway \_\_\_\_\_ USGS name \_\_\_\_\_ Local name \_\_\_\_\_

Addition  Deletion \_\_\_\_\_ Correction \_\_\_\_\_ Backup Information \_\_\_\_\_

For Office Use

|  |                     |                 |
|--|---------------------|-----------------|
| Nomination # <u>94 249</u>               | <u>[Signature]</u>  | <u>1/19/94</u>  |
| Revision Year: <u>'94</u>                | Regional Supervisor | Date            |
| Revision to: Atlas _____ Catalog _____   | <u>Ed Weiss</u>     | <u>12/27/93</u> |
| Both <input checked="" type="checkbox"/> | <u>Z. Irone</u>     | <u>2/1/94</u>   |
| Revision Code: <u>A-1</u>                | Drafted             | Date            |

OBSERVATION INFORMATION

| Species                | Date(s) Observed | Spawning | Rearing | Migration | Anadromous                          |
|------------------------|------------------|----------|---------|-----------|-------------------------------------|
| Pink Salmon - Adult    | 9-12-93          | 149      |         |           | <input checked="" type="checkbox"/> |
| Coho Salmon - Juvenile | 9-12-93          |          | 60      |           | <input checked="" type="checkbox"/> |
| Stickleback            | 9-12-93          |          |         | 2         |                                     |
|                        |                  |          |         |           |                                     |

**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: Upper extent distribution of Coho and Pink Salmon is indicated on the sketch map. Stream gradient is 1 percent throughout until the upper extent where the gradient is 3 percent. Stream width ranges from 10 meters at the mouth to 4 meters at the upper extent. Predominant stream substrate is gravel. No barrier was observed. The numbers of fish decrease at the upper extent due to a lack of suitable spawning and rearing habitat.

Name of Observer (please print) KATHAIN SUNDET ALASKA DEPT. OF FISH & GAME  
 Date: 10/22/93 Signature: Kathia Sundet NOV 03 1993  
 Address: 333 RASPBERRY ANCHORAGE AK 99518 REGION II  
 REST AND RESTORATION

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: \_\_\_\_\_



Pinks cease below the riffle area at  
the first bedrock bend. The riffles (~20cm)  
do not constitute a barrier, rather the  
the numbers of fish leave steadily  
decreased in the last segment. There  
is no suitable spawning or rearing  
habitat above these riffles.

BPS was complicated by strong downdrafts  
& turbulence.

## STREAM HABITAT ASSESSMENT 1993 - SEGMENTS

STREAM: Chugach 02 SEGMENT: Φ-Φ1 DATE: 9/12/93 TEAM: KS, DG  
 ANADROMOUS:  WIDTH (m): 10-6 LENGTH (m): 150 GPS DATE: -/-/ DIGITIZE: y n  
 WATERBODY: mainstem tributary lake/pond wetland intertidal other: \_\_\_\_\_

| FISH                    |               |               |                   |           | WILDLIFE                              |        |          |
|-------------------------|---------------|---------------|-------------------|-----------|---------------------------------------|--------|----------|
| SPECIES                 | STAGE (A J U) | COUNT         | METHOD (E V D)    | COMMENTS  | SPECIES                               | COUNT  | COMMENTS |
| Pink<br>Stickle<br>Coho | A<br>J<br>U   | 70<br>2<br>30 | V<br>D, V<br>D, V | Many seen | Other<br>Vel. Warbler<br>Red Squirrel | 1<br>1 | Scat     |
|                         |               |               |                   |           |                                       |        |          |
|                         |               |               |                   |           |                                       |        |          |
|                         |               |               |                   |           |                                       |        |          |
|                         |               |               |                   |           |                                       |        |          |
|                         |               |               |                   |           |                                       |        |          |
|                         |               |               |                   |           |                                       |        |          |
|                         |               |               |                   |           |                                       |        |          |
|                         |               |               |                   |           |                                       |        |          |
|                         |               |               |                   |           |                                       |        |          |

GRADIENT(%): 1 CHANNEL PROFILE: V □ ⊔ U ∩ ∪ —  
A B C D E F  
 CHANNEL PATTERN: single multi braided  
 STREAM SUBSTRATE: BEDROCK \_\_\_ BOULDER \_\_\_ RUBBLE \_\_\_ COBBLE 3  
(rank three most predominant types) GRAVEL 1 SAND 2 MUD/SILT \_\_\_ ORGANICS \_\_\_ OTHER: \_\_\_\_\_  
 STREAM COVER TYPE: ORGANIC DEBRIS  DEAD BRANCHES/TWIGS  LOGS  BOULDERS \_\_\_  
 CUT BANK  OVERHANGING VEGET.  OTHER: \_\_\_\_\_  
 STREAM COVER ABUNDANCE: none low medium high

RIPARIAN VEGETATION (three most abundant plants in order of dominance) within 20m of the banks:  
 OVERSTORY: Spruce  
 UNDERSTORY: Salmon Berry Devils Club Alder  
 CANOPY ABOVE STREAM: none low medium high  
 GROWTH: mature secondary shrubs meadow muskeg intertidal

TOTAL BARRIER?  BARRIER TO SPECIES: NA adults juveniles  
 TYPE: fall slide beaverdam logjam spring substrate HEIGHT (m): NA DIST. FROM UPPER EXTENT (m): NA

| PHOTO ROLL(s): <u>Home 1</u> |                          | VIDEO TAPE(s): _____ |             |
|------------------------------|--------------------------|----------------------|-------------|
| FRAME                        | DESCRIPTION              | DATE                 | DESCRIPTION |
| 21                           | Bottom of seg → upstream |                      |             |
|                              |                          |                      |             |
|                              |                          |                      |             |
|                              |                          |                      |             |
|                              |                          |                      |             |
|                              |                          |                      |             |

Substrate: Bedrock (solid) Boulder >1' Rubble 6-12" Cobble 2-6" Gravel .1-2" Sand <.1"  
 (Please enter comments on the other side)



## STREAM HABITAT ASSESSMENT 1993 - SEGMENTS

STREAM: Chugach #2 SEGMENT: Φ-Φ3 DATE: 9/13/93 TEAM: KS, DG  
 ANADROMOUS: Yn WIDTH (m): 6-4 LENGTH (m): 250 GPS DATE: \_/\_/ DIGITIZE: y n  
 WATERBODY: mainstem tributary lake/pond wetland Intertidal other: \_\_\_\_\_

| FISH         |               |          |                | WILDLIFE |         |       |          |
|--------------|---------------|----------|----------------|----------|---------|-------|----------|
| SPECIES      | STAGE (A J U) | COUNT    | METHOD (E V D) | COMMENTS | SPECIES | COUNT | COMMENTS |
| Pink<br>Coho | A<br>J        | 50<br>10 | ✓<br>✓         |          |         |       |          |
|              |               |          |                |          |         |       |          |
|              |               |          |                |          |         |       |          |
|              |               |          |                |          |         |       |          |
|              |               |          |                |          |         |       |          |
|              |               |          |                |          |         |       |          |
|              |               |          |                |          |         |       |          |
|              |               |          |                |          |         |       |          |
|              |               |          |                |          |         |       |          |
|              |               |          |                |          |         |       |          |

GRADIENT(%): 1 CHANNEL PROFILE: V A B C D E F  
 CHANNEL PATTERN: single multi braided  
 STREAM SUBSTRATE: BEDROCK \_\_\_ BOULDER \_\_\_ RUBBLE \_\_\_ COBBLE 2  
 (rank three most predominant types) GRAVEL 1 SAND 3 MUD/SILT \_\_\_ ORGANICS \_\_\_ OTHER: \_\_\_\_\_  
 STREAM COVER TYPE: ORGANIC DEBRIS ✓ DEAD BRANCHES/TWIGS ✓ LOGS ✓ BOULDERS \_\_\_  
 CUT BANK ✓ OVERHANGING VEGET. ✓ OTHER: \_\_\_\_\_  
 STREAM COVER ABUNDANCE: none low medium high

RIPARIAN VEGETATION (three most abundant plants in order of dominance) within 20m of the banks:  
 OVERSTORY: Spruce  
 UNDERSTORY: Alder Devils Club Salmon Berry  
 CANOPY ABOVE STREAM: none low medium high  
 GROWTH: mature secondary shrubs meadow muskeg Intertidal

TOTAL BARRIER? Yn BARRIER TO SPECIES: NA adults juveniles  
 TYPE: fall silt beaverdam logjam spring substrate HEIGHT (m): NA DIST. FROM UPPER EXTENT (m): NA

| PHOTO ROLL(s): <u>Homer 1</u> |                        | VIDEO TAPE(s): _____ |             |
|-------------------------------|------------------------|----------------------|-------------|
| FRAME                         | DESCRIPTION            | DATE                 | DESCRIPTION |
| <u>25</u>                     | <u>Mid Seg → Upstr</u> |                      |             |
| <u>26</u>                     | <u>Vegetation</u>      |                      |             |
|                               |                        |                      |             |
|                               |                        |                      |             |
|                               |                        |                      |             |
|                               |                        |                      |             |

Substrate: Bedrock (solid) Boulder >1' Rubble 6-12" Cobble 2-6" Gravel .1-2" Sand <.1"  
 (Please enter comments on the other side)

# STREAM HABITAT ASSESSMENT 1993 - SEGMENTS

STREAM: Chugach SEGMENT: Φ-Φ4 DATE: 9/13/93 TEAM: KS, DG  
 ANADROMOUS:  WIDTH (m): 4-4 LENGTH (m): 100 GPS DATE: -/- DIGITIZE:   
 WATERBODY: mainstem tributary lake/pond wetland intertidal other: \_\_\_\_\_

| FISH    |               |       |                |          | WILDLIFE |       |          |
|---------|---------------|-------|----------------|----------|----------|-------|----------|
| SPECIES | STAGE (A J U) | COUNT | METHOD (E V D) | COMMENTS | SPECIES  | COUNT | COMMENTS |
| Pink    | A             | 4     | V              | Live     |          |       |          |
|         |               |       |                |          |          |       |          |
|         |               |       |                |          |          |       |          |
|         |               |       |                |          |          |       |          |
|         |               |       |                |          |          |       |          |
|         |               |       |                |          |          |       |          |
|         |               |       |                |          |          |       |          |
|         |               |       |                |          |          |       |          |

GRADIENT(%): 3 CHANNEL PROFILE: (V) (U) (C) (D) (E) (F)  
 CHANNEL PATTERN: single multi braided  
 STREAM SUBSTRATE: (rank three most predominant types) BEDROCK \_\_\_\_\_ BOULDER \_\_\_\_\_ RUBBLE 3 COBBLE 1  
 GRAVEL 2 SAND \_\_\_\_\_ MUD/SILT \_\_\_\_\_ ORGANICS \_\_\_\_\_ OTHER: \_\_\_\_\_  
 STREAM COVER TYPE: ORGANIC DEBRIS  DEAD BRANCHES/TWIGS \_\_\_\_\_ LOGS \_\_\_\_\_ BOULDERS   
 CUT BANK  OVERHANGING VEGET.  OTHER: \_\_\_\_\_  
 STREAM COVER ABUNDANCE: none low medium high

RIPARIAN VEGETATION (three most abundant plants in order of dominance) within 20m of the banks:  
 OVERSTORY: Spruce Devils Club Alder  
 UNDERSTORY: Fern  
 CANOPY ABOVE STREAM: none low medium high  
 GROWTH: mature secondary shrubs meadow muskeg intertidal

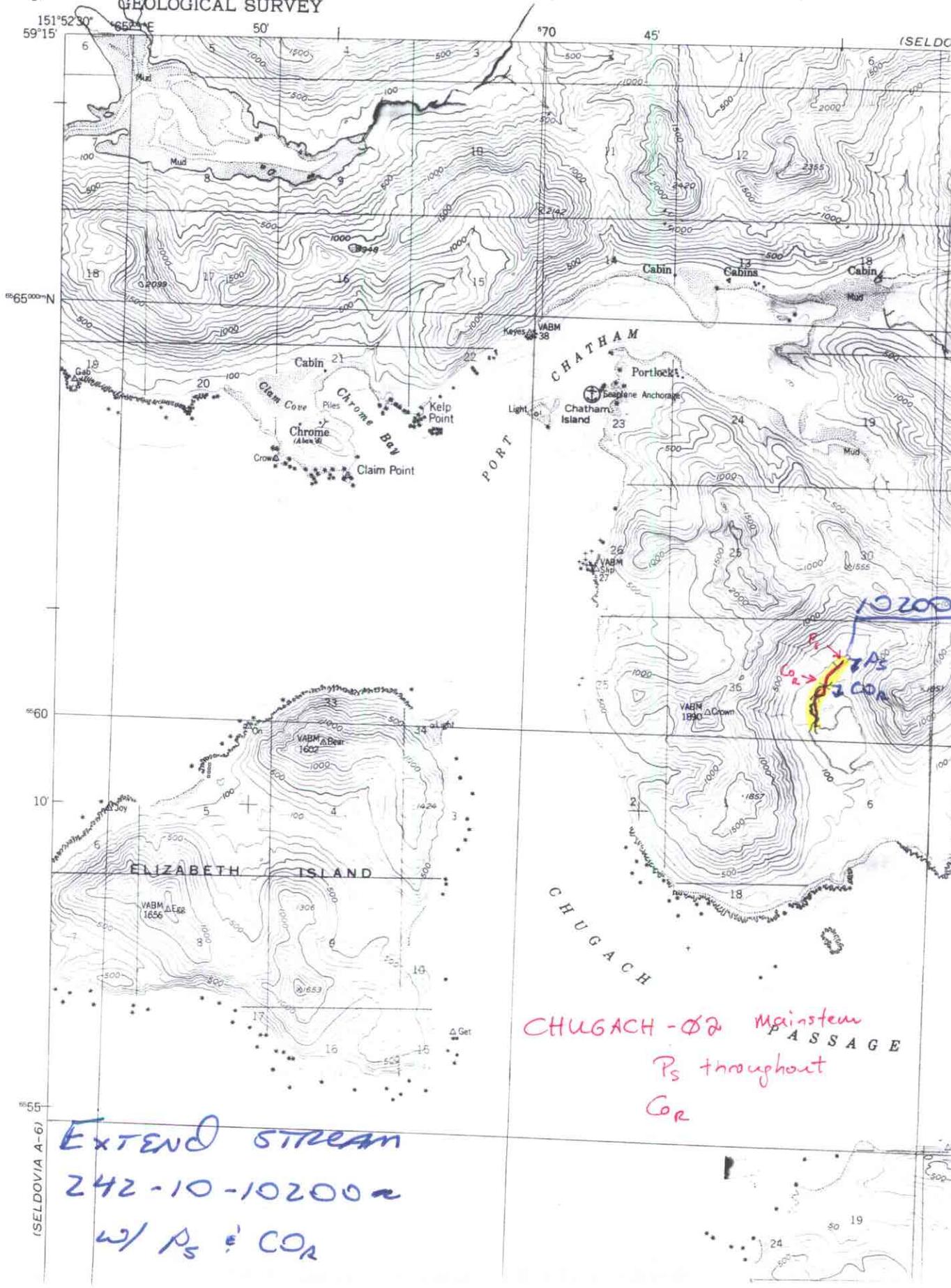
TOTAL BARRIER?  BARRIER TO SPECIES: NA adults juveniles  
 TYPE: fall slide beaverdam logjam spring substrate HEIGHT (m): NA DIST. FROM UPPER EXTENT (m): NA  
Boulders Gradient

| PHOTO ROLL(s): <u>Howar 1</u> |                          | VIDEO TAPE(s): _____ |             |
|-------------------------------|--------------------------|----------------------|-------------|
| FRAME                         | DESCRIPTION              | DATE                 | DESCRIPTION |
| 27                            | Mid Seg Looking Downstr. |                      |             |
| 28                            | Mid Seg Looking Upstr.   |                      |             |
|                               |                          |                      |             |
|                               |                          |                      |             |
|                               |                          |                      |             |
|                               |                          |                      |             |

Substrate: Bedrock (solid) Boulder >1' Rubble 6-12" Cobble 2-6" Gravel .1-2" Sand <.1"  
 (Please enter comments on the other side)

(SELDOVIA B-6)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY



151°52'30"  
59°15'

65°00'N

60°10'

55°

(SELDOVIA A-6)

(SELDOVIA B-6)

(SELDOVIA A-6)

(SELDOVIA B-6)

# MEMORANDUM

# State of Alaska

DEPARTMENT OF FISH & GAME

**TO:** Ed Weiss  
Habitat Biologist  
Region II  
Habitat and Restoration Division  
Department of Fish and Game

**DATE:** November 3, 1993

**FILE NO.:**

**TELEPHONE NO.:** 267-2295

**SUBJECT:** Anadromous Stream  
Nominations  
and Corrections  
Project R-51

**FROM:** Kathrin Sundet *KS*  
Habitat Biologist  
Region II  
Habitat and Restoration Division  
Department of Fish and Game

Attached are anadromous stream nominations and corrections to be included in the Anadromous Waters Catalog for 74 streams surveyed in the fall of 1993 on private lands held by the Port Graham, English Bay and Seldovia Native Corporations on the outer Kenai Peninsula.

Streams were surveyed by the Alaska Department of Fish and Game, Habitat and Restoration Division personnel, Kathrin Sundet, Jeff Barnhart, Dan Grey, and Wes Ghormley as part of Exxon Valdez Oil Spill Restoration project R-51 aka SHA (Stream Habitat Assessment).

Streams were surveyed on foot from the intertidal zone to the upper extent of anadromous fish distribution. Adult salmon and Dolly Varden were visually identified and enumerated. Juvenile salmon were visually identified in the stream, and then captured by electroshocking, dipnet, or minnow trap to confirm identification. Sampling was conducted periodically along the stream to determine the presence of juvenile salmon. No attempt was made to determine the rearing population sizes of juvenile salmon, or to determine the total escapement of adult salmon in a stream.

Stream data are on file at the Alaska Department of Fish and Game, Habitat and Restoration office, 333 Raspberry Road, Anchorage, Alaska.

cc: Lance Trasky  
Don McKay  
Mark Kuwada

ALASKA DEPT. OF  
FISH & GAME

NOV 03 1993

REGION II  
HABITAT AND RESTORATION  
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