

ANC Volume SE SC SW W AR IN USGS Quad Seward B 3

Anadromous Water Catalog Number of Waterway 226-20-16010-0010

Name of Waterway _____ USGS name _____ Local name _____

Addition Deletion _____ Correction Backup Information _____

For Office Use

Nomination # <u>94 149</u>	<u>Jolly</u>	<u>10/22/94</u>
Revision Year: <u>'94</u>	Regional Supervisor	Date
Revision to: Atlas _____ Catalog _____	<u>EO WEISS</u>	<u>12/28/93</u>
Both <input checked="" type="checkbox"/>	<u>A. Irone</u>	<u>2/3/94</u>
Revision Code: <u>A-2</u>	Drafted	Date

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Migration	Anadromous
Pink Salmon/Adult	8/10/93	200			<input checked="" type="checkbox"/>
Sockeye Salmon/Adult	8/27/93, 8/10/93	13			<input checked="" type="checkbox"/>
Dolly Varden	8/10/93	18			<input checked="" type="checkbox"/>
Pink Salmon/Adult	8/27/93	300			<input checked="" 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 any other information such as: specific stream reaches observed as spawning or rearing habitat; locations, types, and heights of any barriers; etc.

Comments: Adult pink salmon and Dolly Varden were observed in this stream up to but not including the lake at the headwaters identified as segment 0-04 on the habitat assessment map. 1 adult sockeye salmon was visually identified at the mouth and 12 at the headwater lake (segment 0-04). The barrier is a spring. Channel width is 10 meters at the mouth and 30 meters at the barrier. Gradient is 0.5-3 percent.
The stream course on the USGS quad. sheet is incorrect - the corrected overlay is attached.

Name of Observer (please print) KATHARIN SUNDET
 Date: 10/6/93 Signature: Katharin Sundet
 Address: 333 RASPBERRY
XNCHORAGE AK 99518

ALASKA DEPT. OF FISH & GAME
 1993
 REGIONAL OFFICE

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: _____ Rev. 7/93

STREAM HABITAT ASSESSMENT 1993 - STREAMS

210-20-16010

STREAM: Paddy Bay et QUAD: Seward B-3 STAGE: H M (L)
 LANDOWNER: Chenega CAC Eyak Tatitlek Pt. Graham English Bay (circle one)
 DATE(s): 8/10/93 UTM ZONE: 6
 GPS FILES: B08/022*, B(trib)

SKETCH (indicate UTM zones, if not uniform throughout the stream)

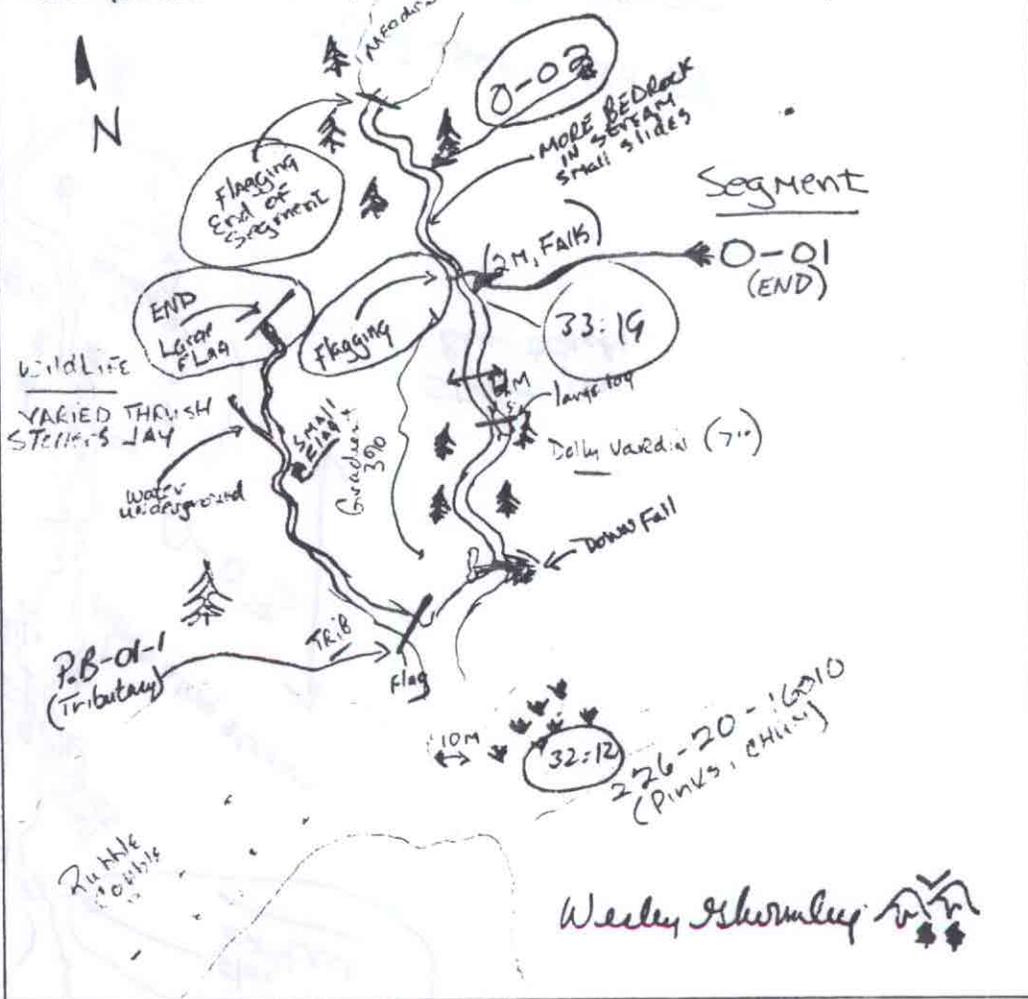


PHOTO ROLL(s): <u>KS-02</u>		VIDEO TAPE(s): <u>WX901</u>	
FRAME	DESCRIPTION	DATE	
		<u>8/10/93</u>	<u>Pinks at Mouth of Stream</u>

(Please enter comments on the other side)

STREAM HABITAT ASSESSMENT 1993 - SEGMENTS

216-20-16016

STREAM: PADDOY - 01 SEGMENT: 0-01 DATE: 08/10/93 TEAM: WG/KS
 ANADROMOUS: WIDTH (m): 10-2 LENGTH (m): _____ GPS DATE: 8/10 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
<u>PINK</u>	<u>A</u>	<u>200</u>	<input checked="" type="checkbox"/>	<u>AT MOUTH</u>	<u>Ultral Thrush</u>	<u>2</u>	<u>-</u>
<u>SCKEYS</u>	<u>A</u>	<u>1</u>	<input checked="" type="checkbox"/>	<u>AT MOUTH</u>			
<u>DOLLY</u>	<u>U</u>	<u>12</u>	<input checked="" type="checkbox"/>	<u>THROUGHOUT</u>			
<u>PINK</u>	<u>A</u>	<u>200</u>	<input checked="" type="checkbox"/>	<u>THROUGHOUT</u>			

GRADIENT(%): 3 CHANNEL PROFILE: V U U U U U
A B C D E F

CHANNEL PATTERN: single multi braided

STREAM SUBSTRATE: (rank three most predominant types) BEDROCK _____ BOULDER 3 RUBBLE 1 COBBLE 2
 GRAVEL _____ 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
 UNDERSTORY: ALDER HEMLOCK FERNS

CANOPY ABOVE STREAM: none low medium high

GROWTH: mature secondary shrubs meadow muskeg intertidal

TOTAL BARRIER? Y BARRIER TO SPECIES: PINK adults juveniles
 TYPE: fall slide beaverdam logjam spring substrate HEIGHT (m): 2.0 DIST. FROM UPPER EXTENT (m): _____

PHOTO ROLL(s): <u>RS-03</u>		VIDEO TAPE(s): <u>WG-01</u>	
FRAME	DESCRIPTION	DATE	DESCRIPTION
<u>1</u>	<u>INTERTIDAL / MOUTH</u>	<u>8/10</u>	<u>intertidal</u>
<u>2</u>	<u>100 m up segment</u>	<u>8/10</u>	<u>100 m up segment</u>
<u>3</u>	<u>Pink - barrier</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

226-20-16010

STREAM: Paddy-01 SEGMENT: 0-42 DATE: 8/12/93 TEAM: WB/KS
 ANADROMOUS: y n WIDTH (m): 4.0-2.5 LENGTH (m): _____ GPS DATE: 8/12/ 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
<u>Jelly PINK</u>	<u>u</u>	<u>3</u>	<u>V</u>	<u>throughout</u>			
	<u>A</u>	<u>-50</u>	<u>V</u>				

GRADIENT(%): 3 CHANNEL PROFILE: V C U U U U U
A B C D E F

CHANNEL PATTERN: single multi braided

STREAM SUBSTRATE: BEDROCK 2 BOULDER 3 RUBBLE 1 COBBLE _____
(rank three most predominant types) GRAVEL _____ SAND _____ MUD/SILT _____ ORGANICS _____ OTHER: _____

STREAM COVER TYPE: ORGANIC DEBRIS _____ DEAD BRANCHES/TWIGS V LOGS V BOULDERS V
 CUT BANK _____ OVERHANGING VEGET. V 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: NETLOCK ALDER FERNS

CANOPY ABOVE STREAM: none low medium high

GROWTH: mature secondary shrubs meadow muskeg intertidal

TOTAL BARRIER? y n BARRIER TO SPECIES: _____ adults juveniles

TYPE: fall slide beaverdam logjam spring substrate HEIGHT (m): DIST. FROM UPPER EXTENT (m):

PHOTO ROLL(s): K5-03

VIDEO TAPE(s): W6-01

FRAME	DESCRIPTION	DATE	DESCRIPTION
<u>4</u>	<u>Bedrock channel</u>	<u>8/10</u>	<u>end of segment 2</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

226-20-16016

STREAM: Parley #1 SEGMENT: 0-03 DATE: 8/10/93 TEAM: WG/KS
 ANADROMOUS: y WIDTH (m): 1.5-5.0 LENGTH (m): _____ GPS DATE: 8/10/ 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
<u>DV</u>	<u>U</u>	<u>3</u>	<u>V</u>	<u>throughout</u> <u>8/29</u>	<u>BEAR</u>		<u>TRAILS BLOW CREEK</u>
<u>MNK</u>	<u>A</u>	<u>50</u>	<u>V</u>		<u>BITE</u> <u>MINK</u>		<u>TRACKS, PRODUCTION</u> <u>TRACKS</u>

GRADIENT(%): 5 CHANNEL PROFILE: V □ U ∩ ∪ ∩ ∪
A B C D E F

CHANNEL PATTERN: single multi braided

STREAM SUBSTRATE: BEDROCK _____ BOULDER _____ RUBBLE 3 COBBLE 1
 (rank three most predominant types) GRAVEL 2 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: GRASS ALDER FERN

CANOPY ABOVE STREAM: none low medium high
 GROWTH: mature secondary shrubs meadow muskeg intertidal

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

PHOTO ROLL(s): <u>KS-03</u>		VIDEO TAPE(s): <u>WG-01</u>	
FRAME	DESCRIPTION	DATE	DESCRIPTION
<u>5</u>	<u>typical portion of segment</u>	<u>8/10</u>	<u>typical portion of segment</u>

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

enter form 8/28/93

STREAM HABITAT ASSESSMENT 1993 - SEGMENTS

336-30-16010
 STREAM: Paddy - St SEGMENT: 0-04 DATE: 8/10/03 TEAM: WG/KS
 ANADROMOUS: y WIDTH (m): 10-30 LENGTH (m): _____ GPS DATE: 8/10/ 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
<u>Sockeye</u>	<u>A</u>	<u>12</u>	<u>✓</u>	<u>in upper lake - 8/28</u>			

GRADIENT(%): 0 CHANNEL PROFILE: V □ U U U U U
 A B C D E F
 CHANNEL PATTERN: single multi braided
 STREAM SUBSTRATE: (rank three most predominant types) BEDROCK _____ BOULDER _____ RUBBLE COBBLE
 GRAVEL _____ 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

RIPIARIAN VEGETATION (three most abundant plants in order of dominance) within 20m of the banks:
 OVERSTORY: SPRUCE _____
 UNDERSTORY: GRASSES ALDER _____
 CANOPY ABOVE STREAM: none low medium high
 GROWTH: mature secondary shrubs meadow muskeg intertidal

TOTAL BARRIER? 0 BARRIER TO SPECIES: ALL adults juveniles
 TYPE: fall slide beaverdam logjam spring substrate HEIGHT (m): _____ DIST. FROM UPPER EXTENT (m): _____

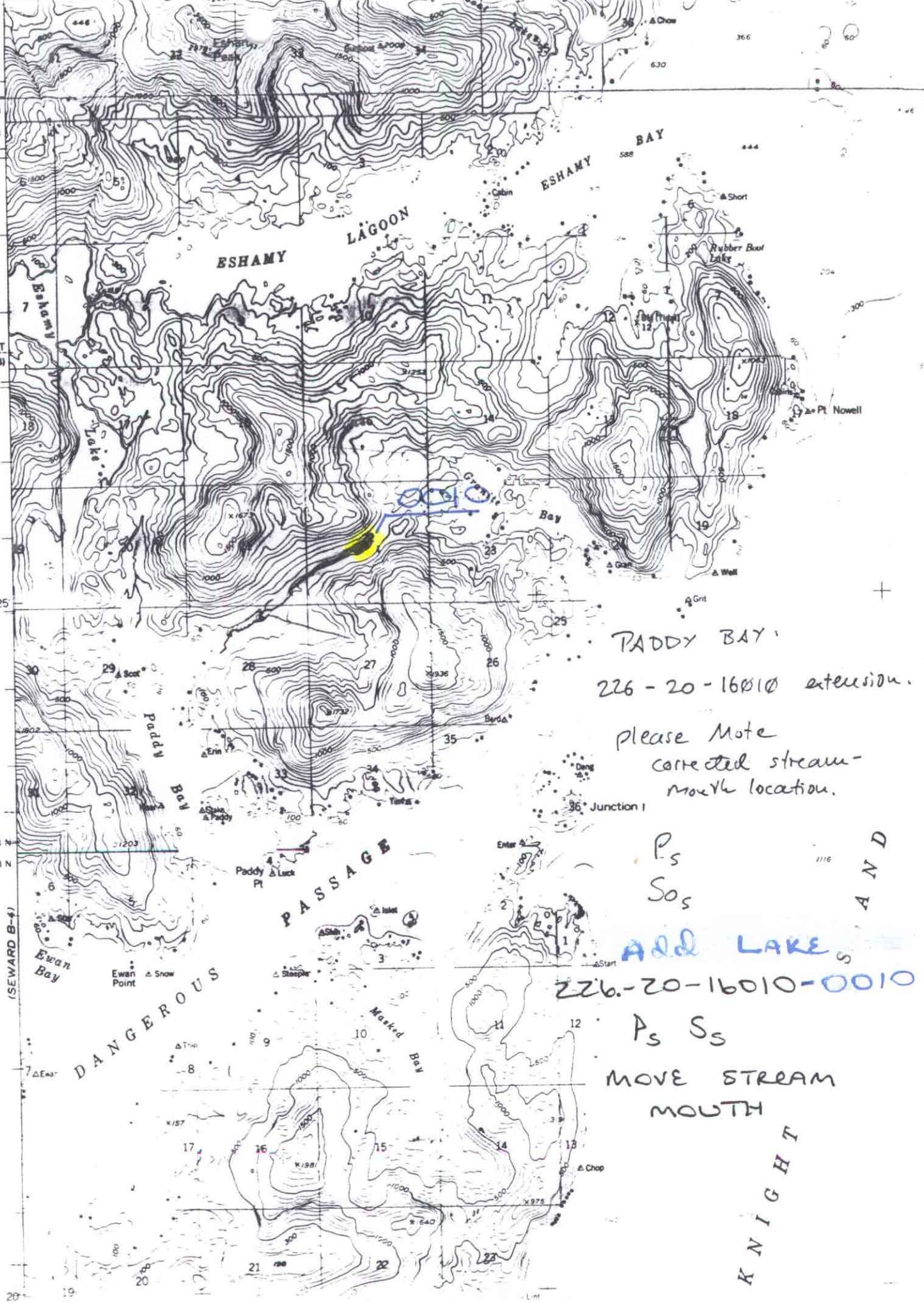
PHOTO ROLL(s): KS-03 VIDEO TAPE(s): WB-01

FRAME	DESCRIPTION	DATE	DESCRIPTION
<u>6</u>	<u>pond / lake</u>	<u>8/10</u>	<u>pond / lake</u>
		<u>8/28</u>	<u>Sockeye</u>
<u>24</u>	<u>Sockeye</u>		
<u>25</u>	"		
<u>26</u>	"		

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

2 380 000 FEET
(ZONE 4)

T 5 N
T 4 N
T 3 N
T 2 N
20



PADDY BAY

226-20-16010 extension.

Please Note
corrected stream-
mouth location.

P_s
S_{0s}

ADD LAKE

226-20-16010-0010

P_s S_s

MOVE STREAM
MOUTH

K N I G H T

DANGEROUS

PASSAGE

A N D

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 2, 1993

FILE NO.:

TELEPHONE NO.: 267-2295

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

SUBJECT: Anadromous Stream
Nominations
and Corrections
Project R-51

Attached are anadromous stream nominations and corrections to be included in the Anadromous Waters Catalog for 46 streams surveyed in the summer of 1993 on private lands held by the Chenega and Chugach Alaska Corporations in southwest Prince William Sound.

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