

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 SEWARD B-2

Anadromous Water Catalog Number of Waterway 226-30-16850-0910

Name of Waterway NONE USGS name _____ Local name _____

Addition Deletion _____ Correction _____ Backup Information _____

For Office Use

Nomination # <u>95 314</u>	<u>Frank [Signature]</u>	<u>11/19/94</u>
Revision Year: <u>94</u>	Regional Supervisor	Date
Revision to: Atlas _____ Catalog _____	<u>Ed [Signature]</u>	<u>1/11/94</u>
Both <input checked="" type="checkbox"/>	<u>Z. [Signature]</u>	<u>1/5/95</u>
Revision Code: <u>A-2 E-1</u>	Drafted	Date

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Migration	Anadromous

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: ADD POLYGON TO MOUTH AREA OF STREAM
226-30-16850 BASED ON ATTACHED NOMINATIONS
94-145 & 94-146. DUE TO THE SHORTNESS & CLOSE
PROXIMITY OF THESE STREAMS TO 226-30-16850
THEY WOULD BEST BE PRESENTED BY POLYGON AS BASE
OF STREAM.

Name of Observer (please print) _____
 Date: _____ Signature: _____
 Address: _____

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: _____

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

Maisha 06
 Segment 0-1

AWC Volume SE SC SW W AR IN USGS Quad Seward B-2

Anadromous Water Catalog Number of Waterway 226-30-168

Name of Waterway _____ USGS name _____ Local name _____

Addition Deletion _____ Correction _____ Backup Information _____

For Office Use

Nomination # <u>94 145</u>	<u>Jocoy</u>	<u>11/19/94</u>
Revision Year: _____	Regional Supervisor	Date
Revision to: Atlas _____ Catalog _____	_____	_____
Both _____	_____	_____
Revision Code: _____	Drafted	Date

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Migration	Anadromous
<u>Pink Salmon - Adults</u>	<u>9-1-93</u>	<u>94</u>			

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: Visually identified and enumerated 94 pink salmon, including post-spawners, in the intertidal zone. No barrier was observed. Channel width ranged from 2 meters at the mouth to 1.5 meters at the upper extent of observed salmon. Gradient is 3 percent.

ALASKA DEPT. OF
 FISH & GAME

Name of Observer (please print) JEFF BARNHART

Date: 10-1-93 Signature: Jeff Barnhart

Address: 333 Raspberry Road
Anchorage AK

NOV 02 1993

REGION II
 FISH AND RESTORATION
 DIVISION

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Signature of Area Biologist: _____

Rev. 7/93

STREAM HABITAT ASSESSMENT - 13 - SEGMENTS

STREAM: Maisha 06 SEGMENT: 0-01 DATE: 9/1/93 TEAM: JB/KS
 ANADROMOUS: 0 n WIDTH (m): 2-1.5 LENGTH (m): _____ 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
<u>Pink</u>	<u>A</u>	<u>32</u>	<u>V</u>	<u>Live in ITZ</u>			
<u>pink</u>	<u>A</u>	<u>12</u>	<u>V</u>	<u>Dead in ITZ</u>			

GRADIENT(%): 3 CHANNEL PROFILE: V □ □ U U U F
A B C D E F
 CHANNEL PATTERN: single multi braided
 STREAM SUBSTRATE: (rank three most predominant types) BEDROCK _____ BOULDER _____ RUBBLE 3 COBBLE 2
 GRAVEL 1 SAND _____ MUD/SILT _____ ORGANICS _____ OTHER: _____
 STREAM COVER TYPE: ORGANIC DEBRIS _____ DEAD BRANCHES/TWIGS _____ LOGS _____ BOULDERS _____
 CUT BANK _____ OVERHANGING VEGET. _____ OTHER: nothing
 STREAM COVER ABUNDANCE: none low medium high

RIPARIAN VEGETATION (three most abundant plants in order of dominance) within 20m of the banks:
 OVERSTORY: _____
 UNDERSTORY: grass _____
 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): _____		VIDEO TAPE(s): _____	
FRAME	DESCRIPTION	DATE	DESCRIPTION

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 - STREAMS

STREAM: MARSCHA - 06 QUAD: Seward B-2 STAGE: H M L
 LANDOWNER: Chenega CAC Eyak Tatitlek Pt. Graham English Bay (circle one)
 DATE(s): 09/01/93 UTM ZONE: 6
 GPS FILES: 3090121D

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

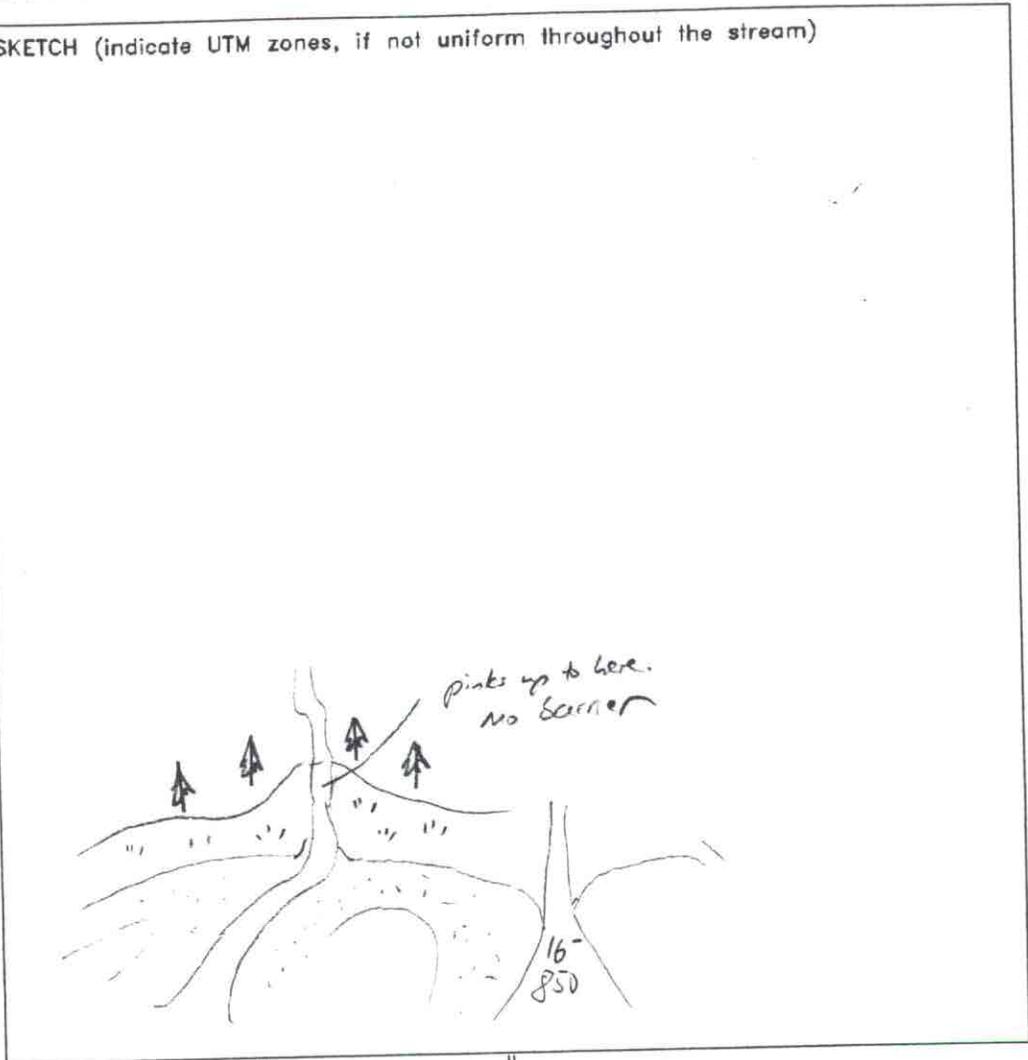
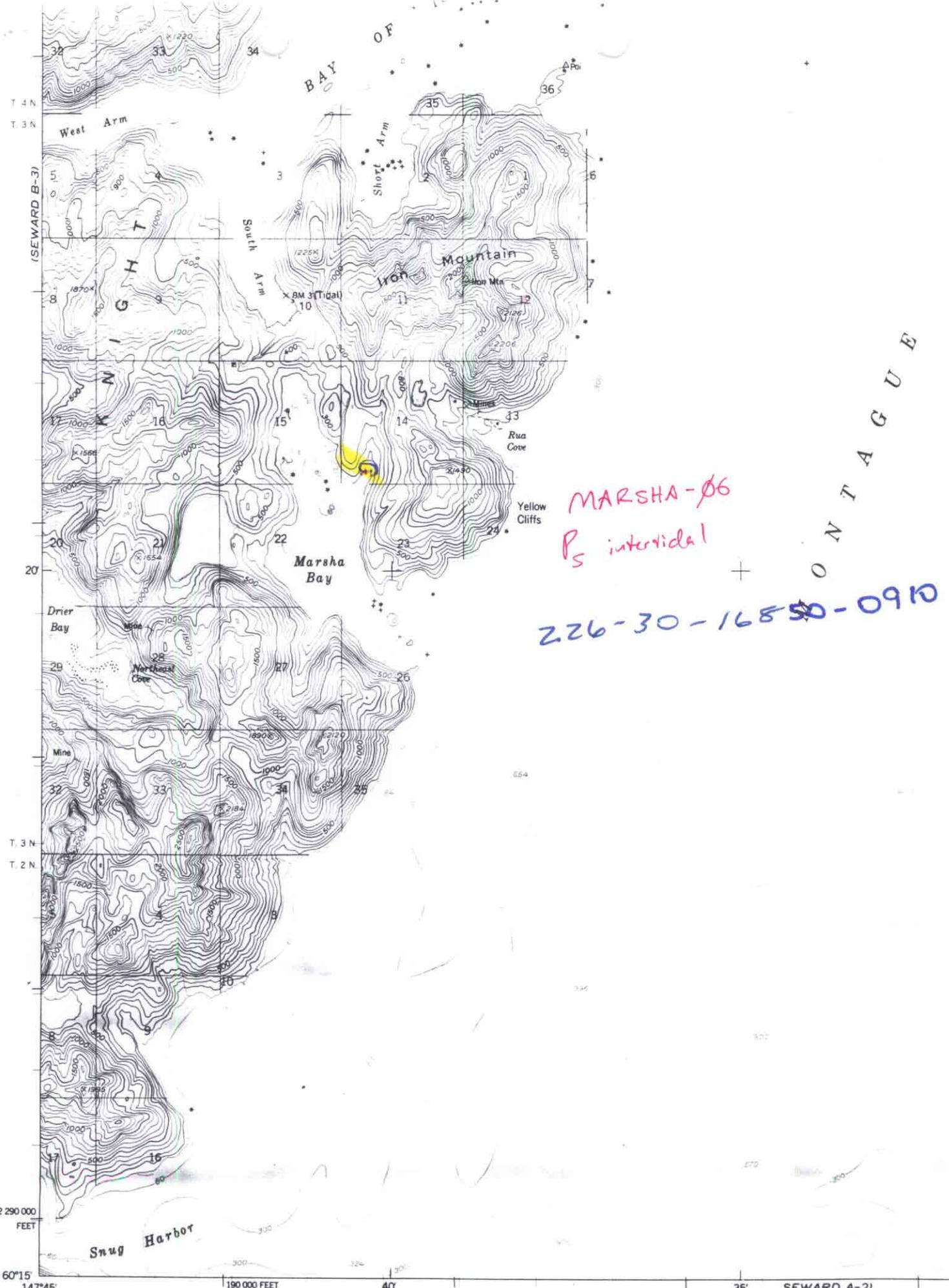


PHOTO ROLL(s): <u>K5-06</u>		VIDEO TAPE(s): _____	
FRAME	DESCRIPTION	DATE	
<u>25</u>	<u>fish - extent</u>		

(Please enter comments on the other side)



MARSHA-06
P_s intertidal

226-30-1650-0910

(SEWARD B-3)

T. 3 N
 T. 2 N

2 290 000
 FEET

60°15'
 147°45'

190 000 FEET

SEWARD A-2)
 SCALE 1:63360

Mapped, edited and published by the Geological Survey
 Control by NOS/NOAA and USCE



ARD A-3)

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

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 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

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

Marsha 07

AWC Volume SE SC SW W AR IN USGS Quad Seward B-2

Anadromous Water Catalog Number of Waterway 226-30-168

Name of Waterway _____ USGS name _____ Local name _____

Addition Deletion _____ Correction _____ Backup Information _____

For Office Use

Nomination # <u>94 146</u>	<u>[Signature]</u>	<u>11/9/94</u>
Revision Year: _____	Regional Supervisor	Date
Revision to: Atlas _____ Catalog _____	_____	_____
Both _____	_____	_____
Revision Code: _____	Drafted	Date

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Migration	Anadromous
<u>Pink Salmon - Adult</u>	<u>9-1-93</u>	<u>204</u>			<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: Visually identified 127 adult pink salmon in the intertidal zone of the stream and 77 in the stream above the intertidal zone. Pink salmon distribution extends from the intertidal zone upstream to the .5 meter waterfall barrier. Stream width is 2 meters throughout. Gradient is 4 percent.

ALASKA DEPT. OF
 FISH & GAME

Name of Observer (please print) JEFF BARNHART
 Date: 10-1-93 Signature: [Signature]
 Address: 333 Raspberry Road
Anchorage AK

NOV 02 1993

REGION II
 WATERSHED RESTORATION
 DIVISION

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 - SEGMENTS

STREAM: Maiche 07 SEGMENT: 0-01 DATE: 9/1/93 TEAM: JB/KS
 ANADROMOUS: y n WIDTH (m): 2 - 2 LENGTH (m): _____ 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
<u>pinks</u>	<u>A</u>	<u>60</u>	<u>V</u>	<u>Live ITZ</u>			
<u>pinks</u>	<u>A</u>	<u>67</u>	<u>V</u>	<u>Dead ITZ</u>			
<u>pinks</u>	<u>A</u>	<u>77</u>	<u>V</u>	<u>In stream-live</u>			

GRADIENT(%): 4 CHANNEL PROFILE: V U U D E F
A B C D E F
 CHANNEL PATTERN: single multi braided
 STREAM SUBSTRATE: BEDROCK _____ BOULDER _____ RUBBLE 3 COBBLE 2
(rank three most predominant types) GRAVEL 1 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 (scattered) _____
 UNDERSTORY: Alder grass ferns

CANOPY ABOVE STREAM: none low medium high

GROWTH: mature secondary shrubs meadow muskeg intertidal

TOTAL BARRIER? y n BARRIER TO SPECIES: pinks adults juveniles
 TYPE: fall slide beaverdam logjam spring substrate HEIGHT (m): 1.5 DIST. FROM UPPER EXTENT (m): 0

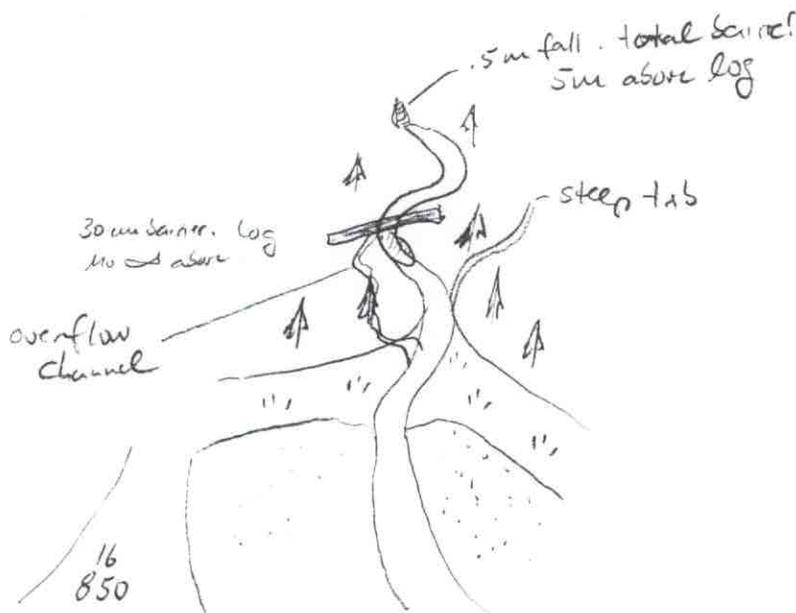
PHOTO ROLL(s): _____		VIDEO TAPE(s): _____	
FRAME	DESCRIPTION	DATE	DESCRIPTION

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

S EAM HABITAT ASSESSMENT 993 - STREAMS

STREAM: MARSHA - 07 QUAD: Seward B-2 STAGE: (H) M L
 LANDOWNER: Chenega (CAC) Eyak Tatitlek Pt. Graham English Bay (circle one)
 DATE(s): 09/01/93 UTM ZONE: 6
 GPS FILES: B0910121.D

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



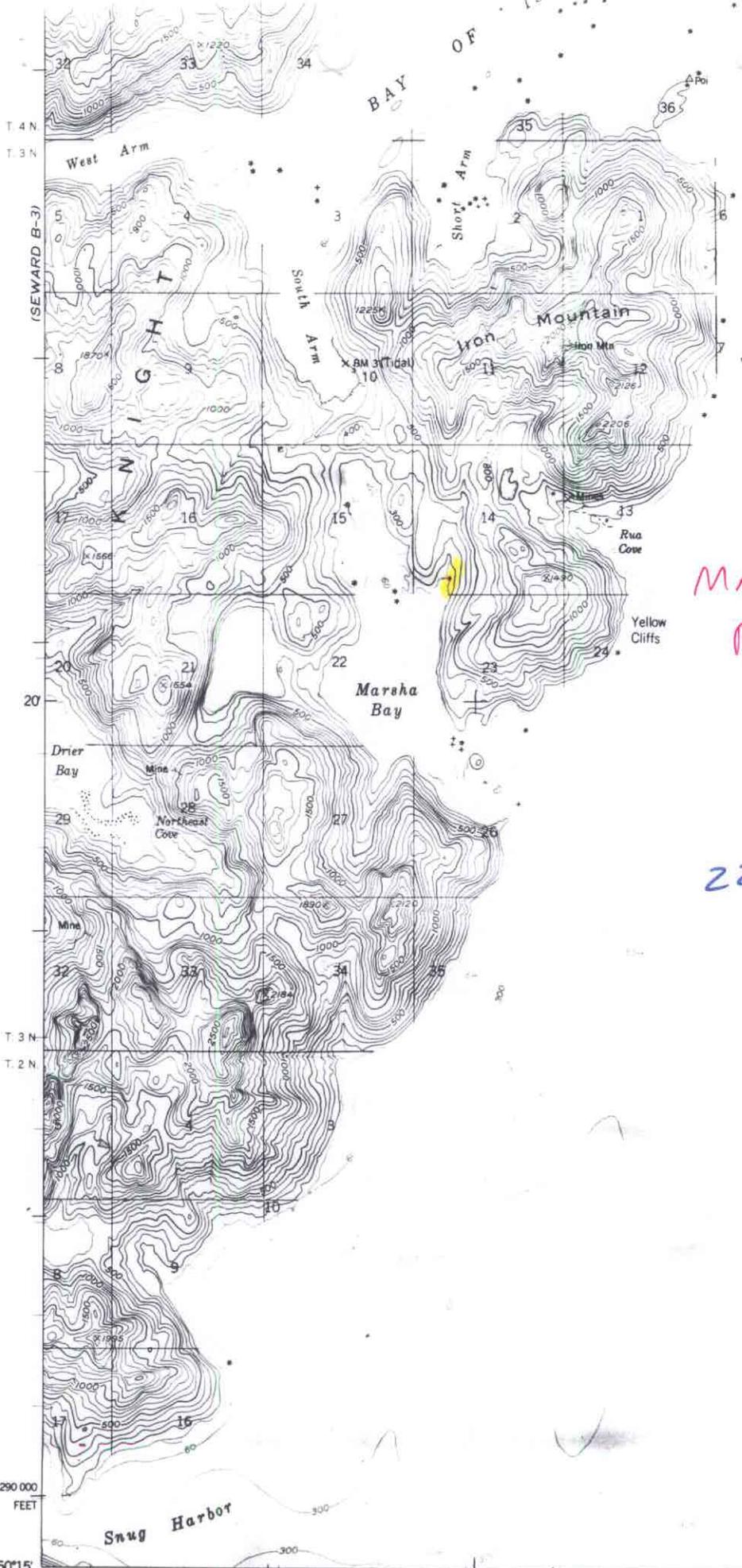
~ 500 fish outside mouth of the 3 streams

PHOTO ROLL(s): K5-06

VIDEO TAPE(s): _____

FRAME	DESCRIPTION	DATE
36	last pool	

(Please enter comments on the other side)



MARSHA-Ø7

P_s intertidal

226-30-168

MONTAGUE

2 290 000
FEET

60°15'
147°45'

190 000 FEET

40

35

SEWARD A-21

SCALE 1:63360

Mapped, edited and published by the Geological Survey
Control by NOS/NOAA and USCE



1RD A-3)

MEMORANDUM

State of Alaska

DEPARTMENT OF FISH & GAME

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