

251-81-10010 (1990
data)

✓
BACK BAY CREEK
Bear Cove, Shugak Is.
(1990 data)

ACE 1369577



ADF&G MULTI-ASSESSMENT FORM
1991 GENERAL ENTRY CHECKLIST

STREAM#: 2518110010
SEGMENT: SI008

PAGE 28

DATE PRINTED: 07/25/91

LOCATION: SHUYAK ISLAND, BEAR COVE

SURVEY TYPE: 90 PRE ANADSSAT - SS

DATE: 04/11/90

START TIME: 1105

END TIME: 1140

TIDES: FLOOD

OG/HAB DISCREPANCIES: -

STATION: 2518110010

TEAM RECORDER: WEISS

OBSERVERS: BARNHART BEYERS THOMAS

AGENCY: FG EXX

PHOTOS TAKEN: N

ROLL#: -0-

FRAME: -0-

VIDEO TAKEN: N

START: -0-

TAPE#: -0-

END: -0-

SAMPLES TAKEN: N

SAMPLE NUMBERS: -0-

-0-

-0-

-0-

-0-

-0-

OIL IN STREAM BED: Y

OIL ON BEACH BY MOUTH: Y

OVERALL OIL IMPACT: VL

WAVE EXPOSURE: LOW

SHORELINE TYPE: LAGOON

SUBSTRATE TYPE: BEDROCK -0- BOULDER 20 COBBLE 30 VEGETAT -0-

GRAVEL 50 SAND -0- MUD/SILT -0- GRANULE -0-

ANADROMOUS FISH PRESENT: N

SPECIES: -0-

COUNT: -0-

-0-

-0-

-0-

-0-

-0-

-0-

-0-

-0-

pls check streams. OK.
Afogmaker Shuyak?
Back
Bey?
Check? OK.

ADF&G MULTI-ASSESSMENT FORM
1991 OILING ENTRY CHECKLIST

PAGE 28

DATE PRINTED: 07/26/91

STREAM# : 2518110010
SEGMENT#: SI008

SURVEY TYPE : 90 PRE ANADSSAT - SS LOCATION: SHUYAK ISLAND, BEAR COVE
DATE: 04/11/90
TIMES: 1105 - 1140 TEAM RECORDER: WEISS

-- OILING EXTENT --

SITE#	SITE TYPE	DEPTH (cm)	LENGTH (m)	WIDTH (m)	AREA (m)	%	THICK (cm)	PEN (cm)	OIL TYPE CODES
1	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0- <i>PT CT</i>

COMMENTS:

PT/P ALONG LAGOON BANKS AND AT STREAM MOUTH. SOME CT/ WERE PATTIES
MELTED. 5-6 TEST PITS IN TIDE FLAT & STREAM, NO OIL, NO SHEEN. FOUND 1
12" X 18" ASPHALT LIKE PATCH ON WEST BANK OF LAGOON. SEDIMENTS CEMENTED
TOGETHER COULD NOT CONFIRM OIL. BROKE UP & DISPERSED. OIL IS IN *4* SOME
LOCATION AS LAST YEARS FALL SURVEY. VERY DIFFICULT TO SEE. RECOMMEND:
YES ANADSCAT/CLEANUP EASY "A" MANUAL PICKUP.



1990 PREANALISAT

ADF&G MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS SS TS AVS SCHM MMS PTA 2 REGION: PWS KP,CI KAP

METHOD: Aerial Ground Boat

3 DATE: 4-11-90 15 HIGH TIDE TIMES: 1 21 TEAM RECORDER: E. WEISS

4 START TIME: 1005 16 HIGH TIDE HTS: 1 22 OBSERVERS: BARNHART, BEYERS, THOMAS

5 STOP TIME: 1140 17 LOW TIDE TIMES: 1025 1 23 AGENCY: ADF+G/EXXON

6 SEGMENT #: 52007-91B 18 LOW TIDE HTS: -0.3 1 24 PHOTOS TAKEN: Y X

7 STATION #: 251-81-10010 19 TIDE HT AT SURVEY: _____ Roll #: _____ Frame: _____

8 K-UNIT: K0101 Ebb Slack Flood Slack 25 VIDEO TAKEN: Y X TAPE#: _____

9 STAT AREA: 251-81 20 USCG QUAD: AFOGNAK C-1 Start: _____ End: _____

10 LAT: 58 35 8 11 LONG: 152 21 26 26 SAMPLES TAKEN? Y X Number _____

12 SOURCE: Map Loran 011 _____

13 LOCATION: BEAR COVE, E. AFOGNAK ISLAND Sediment _____

14 DESCRIPTION: LEGAL DESCRIPTION S 18S 19W 26 Biological _____

Water _____

EXTENT OF OIL

	SHORELINE				STREAM			
	L	W	M ²	%	L	W	M ²	%
27 SURFACE COVERAGE								
28 SURFACE THICKNESS								
29 PENETRATION								

30 OVERALL OIL IMPACT: N VL L M H

31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain

32 OILED DEBRIS? Y N

33 SHORELINE TYPE: Headland Lagoon Low-lying Rocks Beach Cove Marsh

34 WAVE EXPOSURE: High Moderate Low

35 SUBSTRATE TYPE: Bedrock _____ Boulder 20 91B Cobble 30 91B

Gravel 50 91B Sand _____ Mud/silt _____

36 CATALOGED ANAD. FISH STREAM? Y N

37 CATALOG #: 251-81-10010

38 STREAM NAME: BACK BAY CREEK

39 OIL IN STREAM BED? X N

40 OIL ON STREAM BANKS? X N

41 OIL ON BEACH ADJACENT TO MOUTH? X N (within 50 meters)

42 OIL WITHIN 1 MILE OF STREAM? Y N

Where: NOT SURVEYED 91B

43 ANADROMOUS FISH PRESENT? Y N 91B

44 ANADROMOUS FISH OBSERVATION

Species	Aerial	Ground
ACE 6891081		

COMMENTS: PT/P ALONG LAGOON BANKS AND AT STREAM MOUTH. SOME CT/ WERE PATCHES MELTED. 5-6 TEST PITS IN TIDE FLAT & STREAM, NO OIL NO SHEEN. FOUND 1 12" X 18" ASPHALT LIKE PATCH ON WEST BANK OF LAGOON. SEDIMENTS CEMENTED TOGETHER COULD NOT CONFIRM OIL. BROKE UP & DISPERSED. OIL IS IN SOME LOCATIONS AS LAST YEAR'S FIND SURVEY. SEE; DIFFICULT TO SEE.

RECOMMENDATION: YES ANALISAT / CLEANUP EASY "A" MANUAL PICKUP

Jeff Barnhart

ADF&G MULTI-ASSESSMENT FORM
1991 GENERAL ENTRY CHECKLIST



STREAM#: 2518110010
SEGMENT: SI008

PAGE 29

DATE PRINTED: 07/25/91

LOCATION: SHUYAK ISLAND, BEAR COVE

SURVEY TYPE: 90 ANADSSAT - SS

METHOD: GROUND

DATE: 05/01/90

TEAM RECORDER: WEISS

START TIME: 1335

OBSERVERS: LARSON CRITCHLOW GOODWIN
YOES

END TIME: 1455

TIDES: EBB

AGENCY: FG DNR

OG/HAB DISCREPANCIES: -

PHOTOS TAKEN: N

STATION: 2518110010

ROLL#: -0-

FRAME: -0-

VIDEO TAKEN: N

TAPE#: -0-

START: -0-

END: -0-

SAMPLES TAKEN: N

SAMPLE NUMBERS: -0-

-0-

-0-

-0-

-0-

-0-

OIL IN STREAM BED: N

OVERALL OIL IMPACT: VL

OIL ON BEACH BY MOUTH: Y

WAVE EXPOSURE: LOW

SHORELINE TYPE: LAGOON

SUBSTRATE TYPE: BEDROCK -0- BOULDER 20 COBBLE 30 VEGETAT -0-

GRAVEL 50 SAND -0- MUD/SILT -0- GRANULE -0-

ANADROMOUS FISH PRESENT: -

SPECIES: -0-

COUNT: -0-

-0-

-0-

-0-

-0-

-0-

-0-

-0-

-0-

ADF&G MULTI-ASSESSMENT FORM
1991 OILING ENTRY CHECKLIST

PAGE 29

DATE PRINTED: 07/26/91

STREAM# : 2518110010
SEGMENT#: SI008

SURVEY TYPE : 90 ANADSSAT - SS

LOCATION: SHUYAK ISLAND, BEAR COVE

DATE: 05/01/90

TIMES: 1335 - 1455

TEAM RECORDER: WEISS

-- OILING EXTENT --

SITE#	SITE TYPE	DEPTH (cm)	LENGTH (m)	WIDTH (m)	AREA (m)	%	THICK (cm)	PEN (cm)	OIL TYPE CODES
1	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-TPMS SI

COMMENTS:

SPORADIC BAND OF TAR/MOUSSE PATTIES/ SPLATTERINGS 1M WIDE AROUND EAST SIDE
OF LAGOON TO STREAM MOUTH BECOMING MORE SPORADIC ON WEST SIDE OF LAGOON.
RECOMMEND MANUAL PICKUP.

1990 ANADSSAT

ADF&G MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS ~~SS~~ DS TS AVS SCHA MMS PTA2 REGION: PWS KP, CI ☒ APMETHOD: Aerial ☒ Ground Boat

3 DATE: 5-2-90

15 HIGH TIDE TIMES: 1

21 TEAM RECORDER: E. WEISS

4 START TIME: 1335

16 HIGH TIDE HTS: 1

22 OBSERVERS: K. LARSON R. CRITCHLOW,
M. GOODWIN, D. YOE

5 STOP TIME: 1455

17 LOW TIDE TIMES: 1509

23 AGENCY: ADF&G/ADNR

6 SEGMENT #: SI 008

18 LOW TIDE HTS: .5

24 PHOTOS TAKEN: Y ☒

7 STATION #:

19 TIDE HT AT SURVEY:

Roll #: Frame:

8 K-UNIT: K0101

☒ Ebb

Slack

Flood

Slack

25 VIDEO TAKEN: Y ☒ TAPE#:

9 STAT AREA: 251-81

20 USCG QUAD:

Start: End:

10 LAT:

11 LONG:

26 SAMPLES TAKEN? Y ☒ Number

12 SOURCE: Map Loran

Oil

13 LOCATION: BACK BAY BEAR COVE, SHUYAK IS.

Sediment

14 DESCRIPTION:

Biological

Water

EXTENT OF OIL

27 SURFACE COVERAGE

SHORELINE				STREAM			
L	W	M ²	%	L	W	M ²	%

36 CATALOGED ANAD. FISH SREAM? ☒ N

28 SURFACE THICKNESS

--	--	--	--	--	--	--	--

37 CATALOG #: 251-81-10010

29 PENETRATION

38 STREAM NAME: BACK BAY CREEK

30 OVERALL OIL IMPACT: N ☒ L M H39 OIL IN STREAM BED? Y ☒31 OIL TYPE: Pooled ☒ Mousse ☒ Tar Asphalt Sticky Stain40 OIL ON STREAM BANKS? ☒ N32 OILED DEBRIS? Y ☒ N41 OIL ON BEACH ADJACENT TO MOUTH? ☒ N
(within 50 meters)

42 OIL WITHIN 1 MILE OF STREAM? Y N

Where:

33 SHORELINE TYPE: Headland ☒ Low-lying Rocks Beach Cove43 ANADROMOUS FISH PRESENT? Y ☒ N☒ Lagoon

Marsh

34 WAVE EXPOSURE: High Moderate ☒ Low

44 ANADROMOUS FISH OBSERVATION

35 SUBSTRATE TYPE: Bedrock Boulder 20 Cobble 30

Gravel 50 Sand Mud/silt

Species Aerial Ground

COMMENTS: SPORADIC BAND OF TAR/MOUSE PATTIES/SPATTERINGS

1M WIDE AROUND EAST SIDE OF LAGOON TO STREAM
MOUTH. BECOMING MORE SPORADIC ON WEST SIDE
OF LAGOON.

ACE 6891079+F/HF

RECOMMENDS: MANUAL PICKUP

SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-008 SUBDIVISION B (2 OF 3) DATE 4/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A	Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B	Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
5T	All bald eagle nests (3/1 to 6/1)
	Active bald eagle nests (3/1 to 9/1)
8AA	Sensitive Estuary

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to uncoiled biota and substrate. See attached Ecological Constraint Sheet.

ARCHAEOLOGICAL CONSTRAINTS:

If treatment is planned, a cultural resource evaluation is required prior to shoreline treatment.

SHPO SIGNATURE: Mark E. Hines DATE: 4/20/90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 1247 m: No Oil 0 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

<u>X</u> No Treatment Recommended	<u> </u> Snare/Absorbent Booms
<u> </u> Treatment Recommended	<u> </u> Oil Snares (pom poms)
<u> </u> Manual Pickup	<u> </u> Absorbents (pads, rolls, etc)
<u> </u> Bioremediation	<u> </u> Spot Washing: <u> </u> Wands
<u> </u> Tarmat: <u> </u> Breakup	<u> </u> <u> </u> Beach Cleaner
<u> </u> <u> </u> Removal	<u> </u> Other (see comments)

COMMENTS:

TAG COMMENTS:

TAG APPROVAL DATE: 7/20/78.
 ADEC Art Weiner Art Wein
 EXXON ANDY TEAL Real
 NOAA Bur Wescott Bur Wescott
 USCG KENNETH KEANE Kenneth Keane

FOSC: [Signature] DATE: 4-26-90

ACE 6891090 + S

KODIAK ECOLOGICAL CONSTRAINTS

- ~~1A~~
1B ~~Salmon stream mouth - fry outmigration (4/15 to 7/31)~~
Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
No disturbance of stream bed or banks unless authorized by ADF&G. No beach flushing into stream drainage.
No bioremediation or other chemical application within 100m of stream. Contact ADF&G Habitat Division prior to treatment for permits.
- 1C Salmon fry nursery area (4/31 to 7/31)
- 1D Kotof Bay Hatchery release
Pink salmon - late May, early June; Chum salmon - June; Sockeye salmon - early July.
- 1H Remote release site
- 1I Gill net area
- 1J Purse seine area
Mainland, West side Kodiak, Shuyak & Moser/Olga Bay - 6/9 to 10/1.
East side Kodiak, East side Afognak - 7/4 to 10/1.
- 1K Purse seine hook-off
- 1L Set net sites
USFWS setnet uplands permit 5/15 to 9/15.

For Codes 1C through 1L contact ADF&G for specific dates, locations and constraints.
- 2M Herring spawning (4/15 to 6/30)
Restrict boat traffic to essential minimum. Avoid damage to uncoiled intertidal and subtidal algae and seagrass.
Contact ADF&G for specific dates and locations.
- 3N, 3P Harbor seal and sea lion pupping (5/10 to 6/30)
Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 3O, 3Q Harbor seal and sea lion molting (8/15 to 9/15)
Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 5R Seabird colony (5/1 to 8/31)
Restrict air traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance. Contact ADF&G and USFWS prior to treatment.
- 5S Shorebird/waterfowl concentration (4/1 to 5/15)
Restrict all activity to essential minimum, especially air traffic.
- 5T All Bald Eagle nests (3/1 to 6/1)
Active Bald Eagle nests (3/1 to 9/1)
Restrict air traffic to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates.
- 6U Recreation: Tent sites (6/1 to 9/15)
- 6V Anchorages (6/1 to 9/15)
- 6W Forest Service cabins (6/1 to 9/15)
- 6X Lodge (6/1 to 9/15)
- 6Y Special use destination
- 7Z Subsistence area: Salmon harvesting (6/1 to 9/30)
- 7HH Finfish harvesting
- 7H Deer harvesting (8/1 to 1/7)
- 7JJ Invertebrate harvesting
- 7KK Bear harvesting (4/1 to 5/15 and 10/25 to 11/30)
For Codes 7Z through 7JJ contact ADF&G and Chenega Corporation for specific dates, locations, and constraints.

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / K0101 / SI008 SUBDIVISION: B DATE _____NOAA
USCGNAME John Naughton SIGNATURE John Naughton☒ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTED

Entire south-east side of Bear Cove walked. Splatters of oil seen throughout area but very patchy in distribution.

ADEC
NAME Scott Shelton SIGNATURE Scott Shelton☐ NO TREATMENT RECOMMENDED☒ TREATMENT SUGGESTED

COMMENTS

K0101 / SI008. Sub. B
Upper tidal zone oil impact splatters and patches of the remaining oil band in Sub. B. can be found. NO OIL observed in Pits depth 30cm. OCCASIONAL SPLATTERS. Splatters and dips in the upper tidal zone can be picked up. Warming weather could expose more impact in the impacted cobble boulder tide line areas. TEAMS walked 1000 meters.

LAND MANAGER

NAME Ray Burger AONR SIGNATURE Ray Burger☐ NO TREATMENT RECOMMENDED☒ TREATMENT SUGGESTED

COMMENTS

Upper tidal area has ^{splashes of} sparse coat that is retrievable.
Area well protected for landing small craft.
Deer tracks + a carcass (unrotted) found @ North end of subdivision
Area considered for addition to Shuyak State Park

SHORELINE OILING SUMMARY

REVISION NO. 03/22/90

OG Penland USCG Naughton SEGMENT ST/ 20101/51008
 BIO Spight LAND REP Gregory ADNR SUBDIVISION 0
 EXXON Dyer ADEC Shelton TIME 13:08 to 14:11
 TEAM NO.: 19 TIDE LEVEL: 0 to 1 ft DATE 4/1/90
 EST. SUBDIVISION LENGTH: 1200 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: S to N
 SURFACE SEDIMENTS: R 0 % B 0 % C 20 % P 20 % G 10 % S 20 % M 20 % V 0 %
 SLOPE: Lang 100 % Hang 0 % Vert 0 % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 1200 m NO 0 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR						IMPACTED ZONES			
	C	B	P	B	SP OR SN	OR OR OR	OT	OL OR OL	TL	LR	SU	U	M	L
ASPHALT PAVEMENT														
POOLED														
COVER														
COAT				X				X				X		
STAIN														
MOUSSE														
PATTIES														
TARBALLS														
FILM														
NO OIL											X		X	X

PAVEMENT: H F S 0 sq. m by 0 cPATTIES / TARBALLS 0 BAGSNEAR SHORE SHEEN? ☒ NO BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

DEBRIS COLLECTED
☐ YES ☒ NOTYPE 0#BAGS 0

Photographs:

Roll No. 19-3Frames 19-23

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CH)	BELOW		OIL / FILM COLOR								PIT ZONE				A N A	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		VO	UC	SP BR	OR FR	OL BL	OF GR	NO TL	LR	SU	U	M	L				
1	30					X	.										X						pebble / gravel
2	30					X	.										X						"
3	30					X	.										X						"
4	30					X	.										X						"
5	30					X	.										X						"
							.																

COMMENTS

- oil is oil observed in the upper-tidal zone in splashes which cut sediment and rubble at the base of low cliffs
- the west side of Bear Cove not surveyed because of agency concerns that little or no oil has been observed there

SEGMENT ST/ K0121 /51308

SUBDIVISION B

DATE 4 / 1 90

CHECKLIST

- ☒ N Arrow
☒ Approx. Scale
☐ Seg/Sub Bndry
☐ Oil Dist.
☐ Width
☐ Length
☐ % Cover
☐ Substrate Character
☐ Est. NW/NE/SW/SE
☐ SSL
☐ Profile Location(s)
☐ Profile(s)
☐ Pit Location(s)
☐ Photo Location(s)

LEGEND

8 Δ

PH - No Subsurface Oil

2▲

Plt - Subsurface OK

CT/C

Continuous Distribution

CT/D

Broken Distribution

CT/P

Patchy Distribution

CT/S

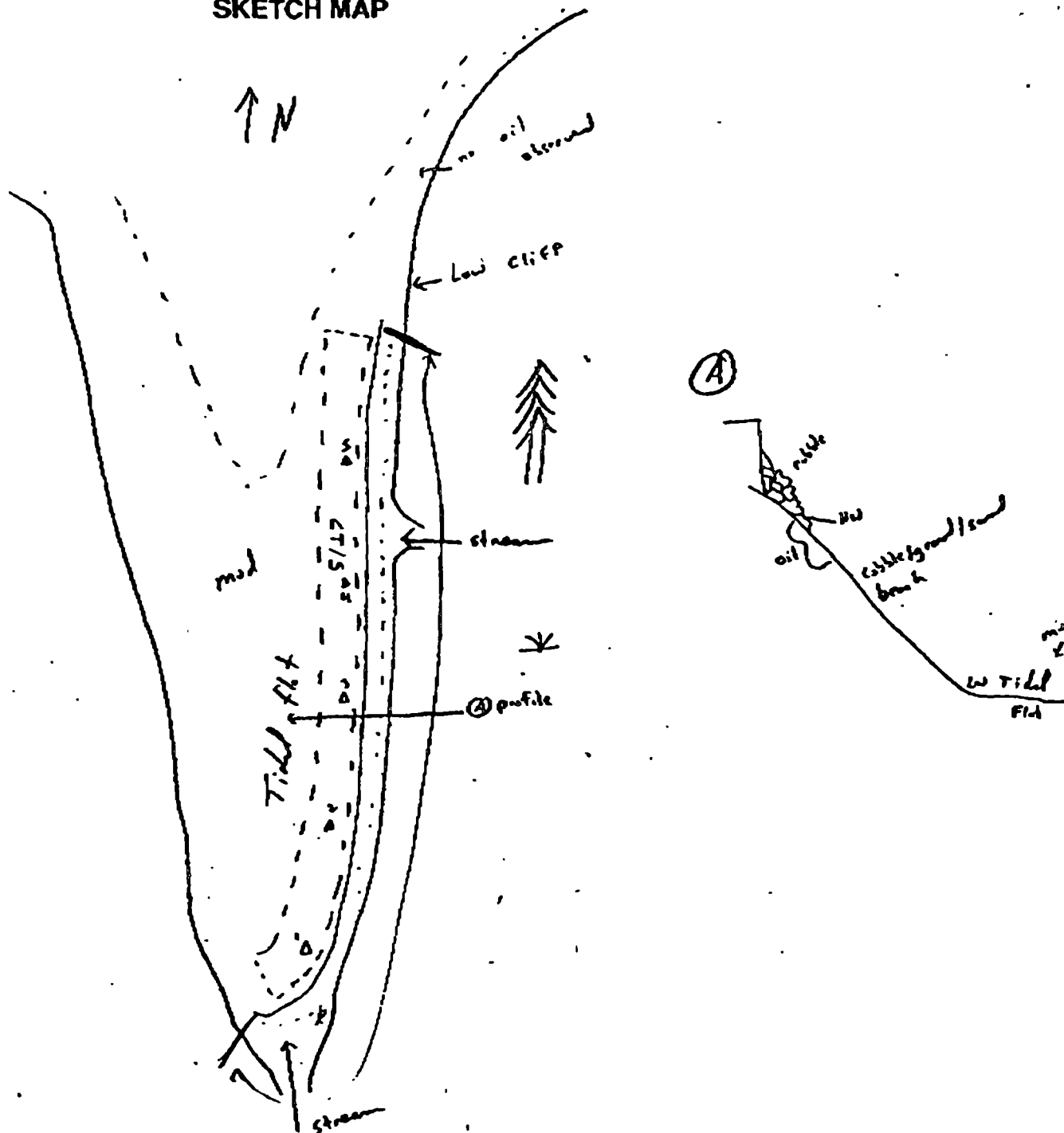
Splashed Distribution

Old Vegetation

1.

**Photo location, direction,
and number**

SKETCH MAP



Oil Character Length (m): AP 0 PO 0 CV 0 CT/200 0 ST 0 MS 0 PT 0 TB 0 FL 0 NO 0

REVISION: 0.0000

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22/91

Segment ST / SI-8 Subdivision B Date (mo / day / yr) 4 / 1 / 90Time (24 hr) 1:06 Biologist SPIGHT Bear Cove

(A) Substrate type and % of segments:

(1) Bedrock 5 (2) Boulder 5 (3) Cobble 10 (4) Pebble 40 (5) Sand 30 (6) Silt 10(B) Overall % cover of biota (% of segment): Dense 5 Moderate 5 Low 90

(C) Density, substrate preference (by number from A, above), & vertical zonation of major taxa: (upper-U; mid-M; low tidal-L); juveniles / adults (X), new settlement (O)

Photographs:

Roll No. _____

Frames _____

BARNACLES

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	X	X	X	2	2	2
3	3	3	3	3	3	X	X	X	3	3	3
4	4	4	4	4	4	X	X	X	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

MYTILUS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	X	X	X	2	2	2
3	3	3	3	3	3	X	X	X	3	3	3
4	4	4	4	4	4	X	X	X	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

GASTROPODS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	X	X	X	2	2	2
3	3	3	3	3	3	X	X	X	3	3	3
4	4	4	4	4	4	X	X	X	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

FUCUS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	X	X	X	2	2	2
3	3	3	3	3	3	X	X	X	3	3	3
4	4	4	4	4	4	X	X	X	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

Wildlife Observations/ General Comments:

Probable anadromous stream at head of lagoon

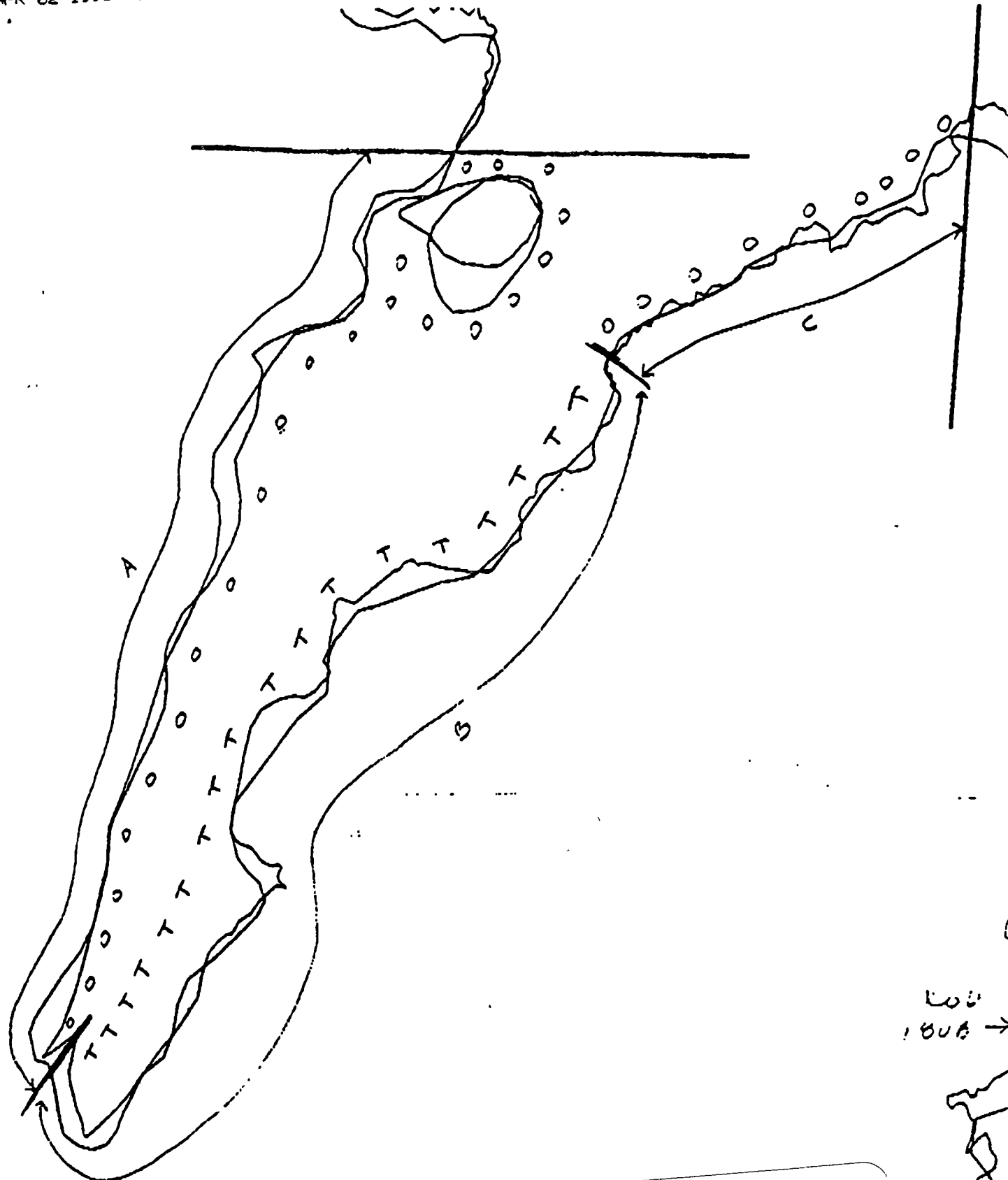
Deer signs, remains

Sensitivity 1A, 1B, 6AA

Ecological Considerations:

Typical tidal flat. Sedentary fauna mostly on scattered small cobbles, these usually very densely covered, with barnacles (w/ B. glandula, sometimes Chthamalus). Littorina sparse to very abundant on cobbles, etc., some places on pebble/sand/silt the cobbles are on. Larger cobbles with B. carosus near mouth of lagoon. Fucus dense in some patches

ACE 6891095



ACE 6891096

1000 →

XXXX Wide
 /// Medium
 --- Narrow
 TTTT Very Light

SI-8

ADEC Segment Length: 3257m

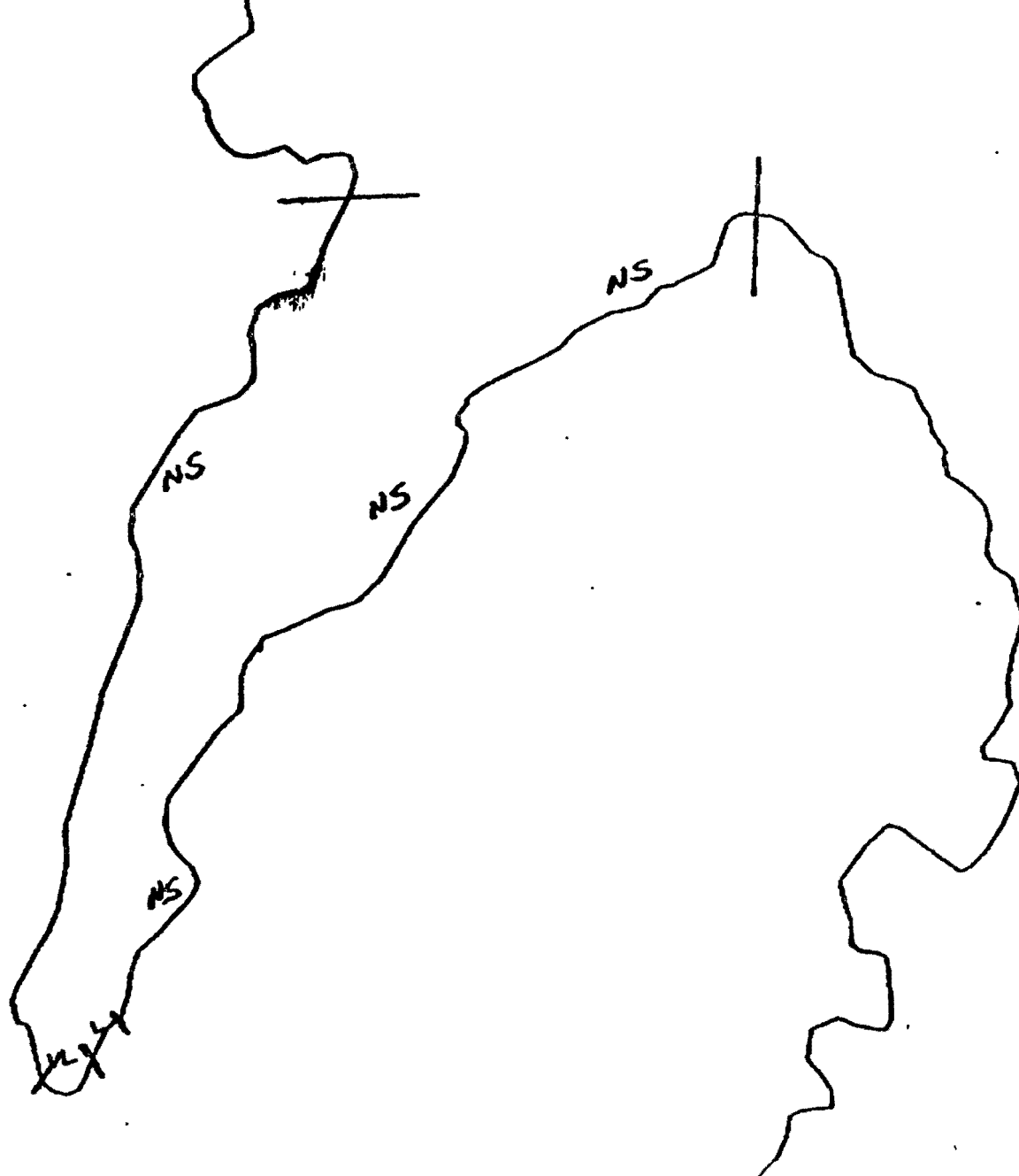


Map Key: KOD-180a

Name: Penland

Date: 4-1-90

K0101-S1008



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed

Distance In Meters

ABEC Sep/Oct 1980 Survey

500.5

ACE 6891097 - 5

SEGMENT INSPECTION RECORD

ORIGINAL

ADEC # K1-1

Shoreline Segment: SI-8

Shoreline Treatment Process(es) Completed for this Segment

Yards Signed Off

☐ Hot water wash	☐ Mechanical
☐ Warm water wash	☒ Non-mechanical
☐ Water deluge	☐ None

2,790

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Exxon Comments

Signature *Gayle Cannon*

Date 9/6/89

Time 1750

Printed Name Gayle Cannon

Existing Shoreline Condition As
Visually Determined by USCG
Surface Oil

Percent	Degree of Oiling
☐	Heavy
☐	Medium
☐	Light
☐ <u>5%</u>	Very Light

100%

Subsurface Oil

☐ Yes ☒ No

Comment Below

Reassessment

☐ Yes - Necessary

☒ No - Not necessary unless re-oiled

ADEC Rep

Comments

ADEC REPRESENTATIVE NOT AVAILABLE AT TIME SIR COMPLETED.

Existing Shoreline Condition As
Visually Determined by ADEC
Surface Oil

Percent	Degree of Oiling
☐	Heavy
☐	Medium
☐	Light
☐	Very Light

100%

Subsurface Oil

☐ Yes ☐ No

Comment Below

Reassessment

☐ Yes - Necessary

☐ No - Not necessary unless re-oiled

Signature

Date

Time

Printed Name

FOSC Rep

Demobilization approved/disapproved

ACE 6891083 + S

Comments

PARTICIPANTS: R. SCRUGGS (USCG), M. MARTINSON (ADEC), J. WOLFE (DNR)

(COMMENTS ON BACK)

Signature

Robert W. Scruggs ENS

Date 9/15/89

Time 1415

Printed Name

ROBERT W. SCRUGGS

Copy: Exxon ADEC FOSC ISCC

Return All Signed Originals to Exxon

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 7/15/89

SHORELINE SEGMENT K1-1 SI-8

LOCATION: (see enclosed map) Shuyak Island (east side)

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 6/25/89

Recommended Cleanup Activity(ies):

- Manually remove mousse balls and patties at head of cove and along east bank.
- Manually remove sporadic bands of oiled sediments on west bank.
- Use other approved methods as appropriate.

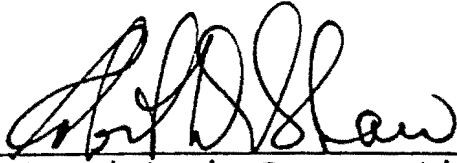
Priorities Considerations:
Class 5B

Ecological Constraints (from site survey):

No constraints in oiled areas, but avoid trampling of, or runoff of, oily wastes into healthy intertidal zone.

Archeological Constraints (from site survey):

Inspection by archaeological monitor recommended during cleanup of northeast 1/3 of the segment, to recommend on-site avoidance procedures that minimize disturbance to archaeologically sensitive areas. If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon's Archeological Field Director and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.



State Historic Preservation Officer *

Date: July 18, 89

ISCC: _____

Date: _____

EXXON: _____

Date: _____

FOSC: _____

Date: _____

* Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands.

ACE 6891084

(version 5/16/89)

SHORE NE OIL EVALUATION FORM - JDIAG

Date: 6/25/89 Time: 1315-1630

Observer: C. Dillon

Surveyed From: Foot/Boat/Helio/Plane

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION SHUYAK ISLAND (EAST SIDE)

SEGMENT I.D. K1-1-SI-8

LENGTH OF SHORELINE SEGMENT: 2550 m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE:

Shoreline Type: SPI/BEA/COV/HLD/STRT

Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B 20% / C 40% / P 30% / G 10% / S 5% / M 5% / R 5%

Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type logs/algae

OIL

Degree of Oiling: Heavy/Moderate/Light/No Oil/Unobserved/Very Light

Total Area of Beach Impact: SU / SP / H / M / L

OIL DISTRIBUTION

Continuous: Y/N Segment % _____ No. Bands _____ Width _____

Sporadic: Y/N Segment % 40 Min/Max Dia N/A Impact Width 4 bands 1m wide x 5m

Est. Oil Thickness where > 1cm: 1 cm. SU / SP / UP / MID / LO
Depth below top sed

Est. Oil Penetration: 0 cm SU / SP / UP / MID / LO

Layers? Yes/No No# Layers _____ Oil Weathering _____

Drift Debris Oiled? Yes/No Supra/Upper/Mid/Lower Amount: H / M / L / VL

OIL MORPHOLOGY

Pooled Oil _____% "Free" Oil _____% Spattered 100% H/M/L/VL Sheen _____%

OIL WEATHERING (OW)

Fresh Oil _____% SU/SP/VP/MID/LO Choc Mousse _____% SU/SP/VP/MID/LO

Pancake Mousse 50% SU/SP/VP/MID/LO Asphalt Mousse 50% SU/SP/VP/MID/LO

Tar Formation _____%

ACE 6891085

Comments:

West bank of cove: boulders/cobbles splattered with small asphalt mousse/tar spots on 11-M ITZ and 2 1x5m bands of pancake mousse marked with X on the attached map. Pancake mousse spots up to 15cm diameter and 1cm thick are scattered around the inside of the cove at the approximate rate of 2 or 3 per 25-50m, becoming denser at the stream at the cove head.

East bank: same as west bank. Sporadic spots of pancake mousse 11-20cm diameter about 10 per 100m.

DOCUMENTATION: K1-1-SI-8

Map/Aerial photo marking segment boundaries AttachedVTR: Y/N Tape Number(s) None } No cameraPhotography: Y/N Roll Number(s) None } availableSample Numbers Collected: None

ECOLOGICAL EVALUATION

LOCATION: Shuyok Island SITE: East side OBSERVER: J. FaucettLOCATION PREFIX: SI SEG. NO.: 8 LENGTH: 255 (M)DATE: 6/25/89 TIME (HHMM): 1515-1645 TIDE HT.: +0.6 - +1.5 (M)

OILED ZONE: Splash High Medium Low

SUBSTRATUM: Rocks Boulder Cobble Gravel Sand MudLIVE BIOTAFucus (algae): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/NMytilus (Mussels): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/NBalanus (Barnacles): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/NLittorinaPatchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/Ndense in some placesLimpets: Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/NOTHER OBSERVATIONS: Long narrow cove (1 km deep), estuarine, small stream (c. anadromous fish) at end, mostly cobble/gravel sand beach, soft bottom in middle, more sand and mud on SW side. Lots of clams (Mya, Protothica, Saxidomus, Tresus placoma), various cast skins of Rhyacionia cecropia and helmet crab (Telmessus cheiragonus)

CLEANUP PRECAUTIONS:

Little macro-biota above +30 ft, so no constraints there. Try to keep oil out of lower intertidalMAMMALS: Otters _____ Harbor Seals _____ Sea Lions _____ Whales _____
Other _____BIRDS: 3 eagles. Pigeon guillemots, gulls. 3 crows

GENERAL OBSERVATIONS: _____

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 6-25-89 Location SHUYAK ISLAND Site NE COAST

Location Prefix K-1-1 Segment # SI-8 Length 2,550 M

Survey Method:

Air _____ (A - indicate on map) Boat X _____ (A - indicate on map)

Ground X _____ (G - indicate on map)

Known cultural resources (AHRS #) AFG-085 Data Source AHRS FILES

Oil conditions/beach visibility Very Light to Moderate oiling, excellent beach visibility

Width of beach zone surveyed 10 m Tree fringe surveyed 0-20 M

Cultural resources observed in beach zone (AHRS code) RCS, FCR, MDN, PAS, PAD,

Cultural resources observed in tree fringe (AHRS code) NONE

General observations justifying survey method and segment's site probability:

Thore profile Very deep narrow bay with narrow rocky continuous beach exposure

Fresh water Sources only at low tide. Several small streams at head of bay.

Sea Exposure well protected - exposed only to NE seas.

Access Safety Sheltered bay - easy access in skiff - very shallow

Probability of undiscovered sites in beach zone (circle one) 1 2 3 4 (5)

Monitoring during cleanup needed (yes) no Collection yes (no)

Photos: Color Roll # NONE Frames _____

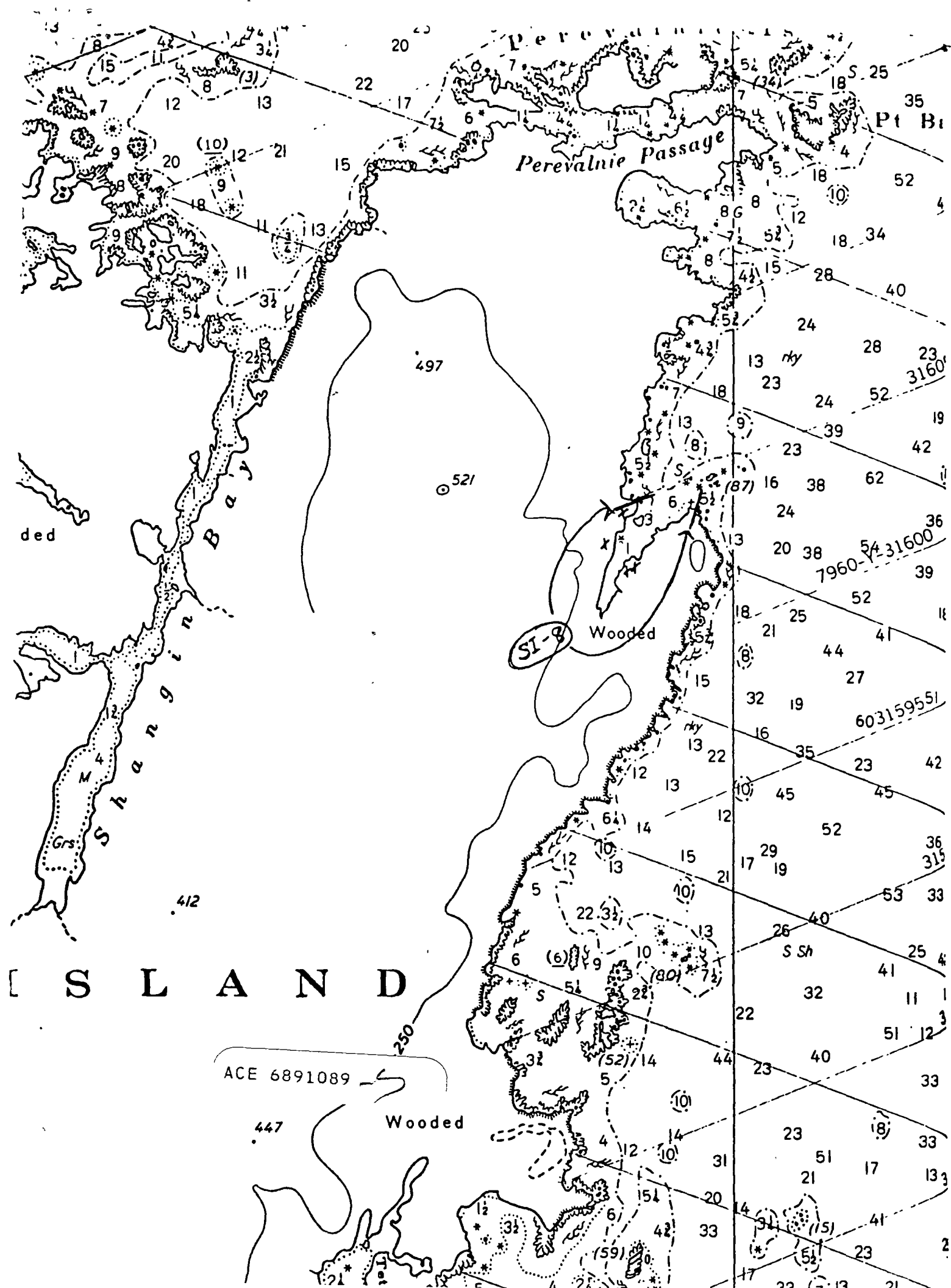
B/W Roll # RB-6 Frames 1-7

Observer(s) BOB BETTS

Time survey started 1516 Time survey ended 1750

Cultural resource considerations/restraints:

Archaeological monitor required. Standard Statement



Back Bay Creek, Bear Cove,
work area NOT near stream

ADDENDUM: SUBDIVISION CONSTRAINTS

SEGMENT K01-01-SI-007 SUBDIVISION B (2 of 5)

WORK WINDOW	
Bioremediation	OPEN

ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

1A,1B Salmon Stream

ADF&G catalogued anadromous streams (251-18-10010) is more than 100m from work site. No constraint to bioremediation.

5R Seabird Colony

No constraint to bioremediation, but follow transit route through seabird colony buffer zone as described on attached map.

OTHER ECOLOGICAL CONSIDERATIONS

Restrict boat traffic to essential minimum. Avoid any unnecessary disturbance or damage to unrolled substrate and biota especially intertidal and subtidal algae and seagrass. Sensitive estuary.

FOSC

[Signature]

Date

6-15-90

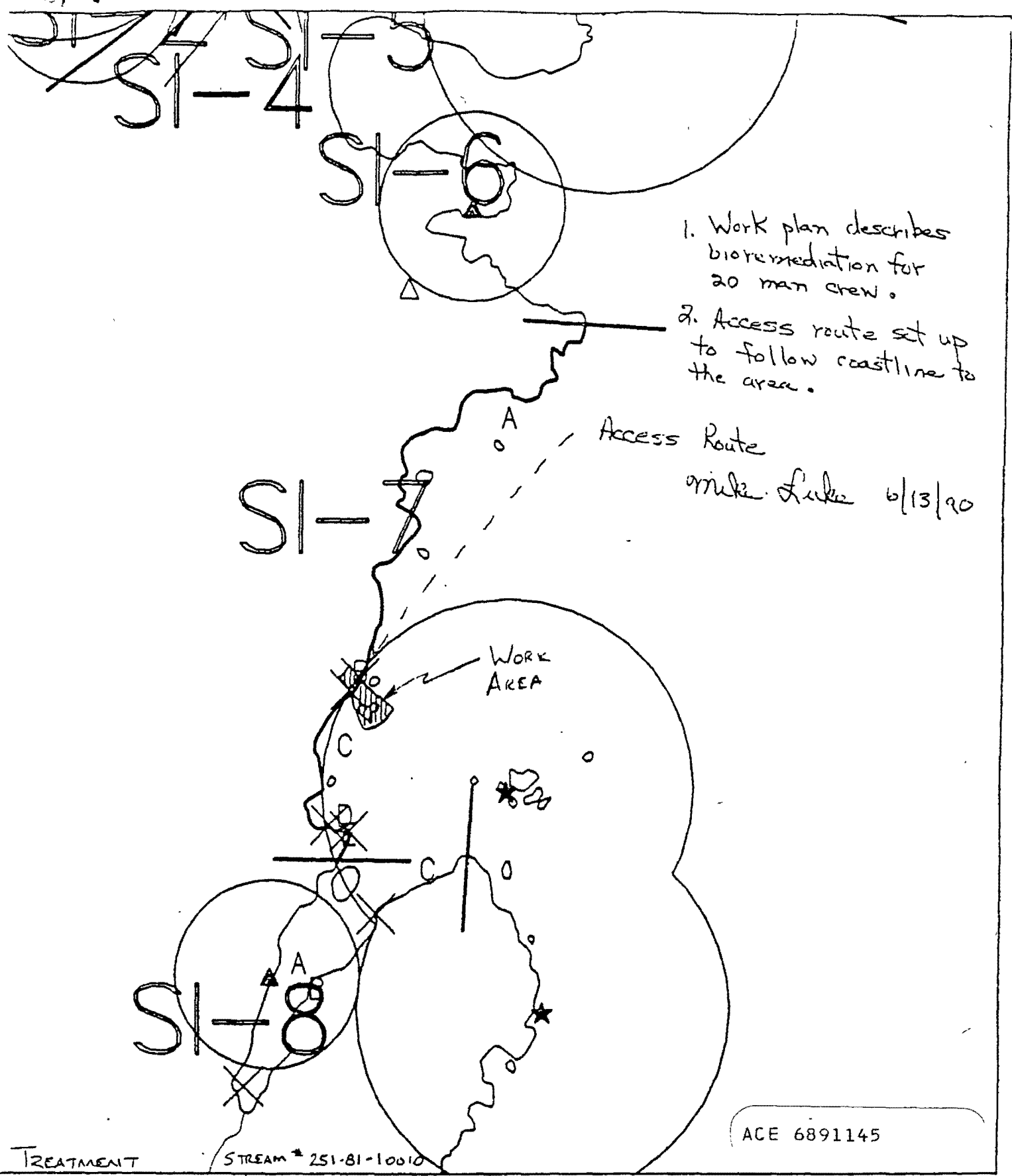
Prepared by

[Signature]

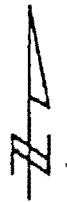
Date

6/15/90

ACE 6891144-S



Exxon Company, USA
Map Key: K00-SI-7
June 10, 1990



ECOLOGY MAP
SEGMENT K1-1 SI-7
SUBDIVISION B (2 of 5)
METERS
0 554 1108

- ★ Seabird Colony
- ▲ Active Eagle Nest
- △ Inactive Eagle Nest

1 inch = 1818 feet

SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-007 SUBDIVISION B (2 OF 5) DATE 4/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Salmon stream mouth - fry outmigration (3/1 to 5/15); Salmon stream mouth spawning (7/10 to 8/31); Sensitive Estuary near segment; land mammals near anadromous stream no. 251-18- ASC#10010.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to uncoiled biota and substrate.

ARCHAEOLOGICAL CONSTRAINTS:

If cultural resources are uncovered during shoreline treatment, stop work in the vicinity, mark the location of the find and contact a member of Exxon's Cultural Resource Program immediately (564-3657; 564-3658 or 564-3276).

SHPO SIGNATURE: Charles F. Hume DATE: April 14, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 94 m: V. Light 0 m: No Oil 0 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

<u> </u> No Treatment Recommended	<u> </u> Snare/Absorbent Booms
<u> </u> Treatment Recommended	<u> </u> Oil Snares (pom poms)
<u> </u> Manual Pickup	<u> </u> Absorbents (pads, rolls, etc)
<u>X</u> Bioremediation	<u> </u> Spot Washing: <u> </u> Wands
<u> </u> Tarmat: <u> </u> Breakup	<u> </u> Beach Cleaner
<u> </u> <u> </u> Removal	<u> </u> Other (see comments)

COMMENTS: Treat continuous cover and broken coat areas. Work between 5/16 to 7/9.

SPE Constraint Addressed dated 6/15/90 JP

TAG COMMENTS:

ACE 6891146 -5

TAG APPROVAL DATE:

ADEC Art Weyner D. J. Weyner

EXXON ANDY TEAL Paul

NOAA Bert Wassett B. J. Wassett

USGG. G.A. REITER G.A. Reiter

FOSC:

DATE: 4-22-90

STATE OF ALASKA

DEPARTMENT OF FISH AND GAME

STEVE COWPER, GOVERNOR

Rapifax 349-1723

333 RASPBERRY ROAD
ANCHORAGE, ALASKA 99518-1599
PHONE: (907) 344-0541

RAPIFAX TRANSMITTAL SHEET

TO: Ken Middleton
Anch. Habitat

DATE: 5/8/90

No. Pages: 9
(including this page)

FROM: J. Barnhart
Kodiak Habitat

MESSAGE: Back Bay Creek, Bear Cove, Shuyak Island
AFS 251-81-10010
Segment SI008

ACE 6891098 *TS*

FIELD SHORELINE COMMENT SHEET

2/25

ASC# (BACK BAY CREEK)

SEGMENT ST / SI-008 SUBDIVISION: 251-81-10010 DATE 01 MAY 90

USCG

NAME Kerwin L. Dreher SIGNATURE CWO K. L. Dreher

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

ADFG

ADEC ~~ADNR~~

NAME EDWARD W. WEISS SIGNATURE Edward W. Weiss

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

RECOMMENDS MANUAL PICK-UP OF T. BALLS / PARTIES EAST SIDE OF LAGOON. IMPACT ON WEST SIDE COULD BE PICKED UP AT SAME TIME, BUT THE IMPACT ON THE NORTH SIDE IS SIGNIFICANTLY LESS AND MORE OCCASIONAL.

ADNR

LAND MANAGER ~~ADNR~~

NAME Mike Cochran SIGNATURE Mike Cochran

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

This segment contains state Lands proposed for future inclusion into SHUYAK Island State Park and is an area of high recreational potential as well as providing for wildlife habitat. An active Eagle nest was observed in this immediate area. This area provides a commonly used anchorage in this protected bay for recreational and commercial fishing vessels. Manual pick-up of T. balls and scattered parties on the East side of the bay is recommended.

OPERATIONS FIELD NOTES

3/25

See Back for Instructions

SEGMENT ID ANAD SI-008 (BACK BAY CREEK)
 STREAM ID # 251-B1-10010
 ANNOTATED MAP INCLUDED Y(N)

DATE 5-1-90
 NAME DARIL YAES
 TEAM # 14

SURFACE OIL	Quantities in Meters			None	Bioremediation		Tilling		Spot Hot Water	
	Length	Width	Area		Y/N	% Treat	Y/N	% Treat	Y/N	% Treat
Wide Band	SEE BELOW			✓						
Medium Band										
Narrow Band										
Very Light										
TOTAL MANDAYS										

SUBSURFACE OIL

Other (Describe)?	NONE FOUND

TARMATS	Quantities in Meters			Treatment Rec			# of Bags	Mandays Required	
	Length	Width	Thick(cm)	None	Breakup	Remove		Breakup	Remove
Area #1	NONE FOUND								
Area #2									
Area #3									
Area #4									
Sporadic Mats									

MANUAL PICKUP	Type of Debris			In Meters		# of Bags	Pickup Y/N	Manday Estimate
	Mousse Tarballs	Oiled Veget	Cleanup Debris	Length	Width			
"Pocket" #1	✓			250	.5	251	N	-
"Pocket" #2	✓			90	.5		N	-
"Pocket" #3	✓			.25	.25		N	-
Random/Continuous	✓			200	.5		N	-

OILED LOGS <u>Y(N)</u>	OILING <u>H/M/L</u>	QUANTITY <u>L/M/S</u>	BURN <u>Y/N</u>
------------------------	---------------------	-----------------------	-----------------

Is there Other Debris on the Beach? Y(N) How Many Bags? 1 Is it mingled with the Oiled Debris Y(N)

GENERAL

Snow covering 0 % of the Supratidal Zone?

Wave Exposure H/M/L

Access Limitations: GOOD ACCESS - LONG SHALLOW BAY

Snare Boom/Pom Poms Recommended? NO

Would the production Craft have to be relocated to complete work on this subdivision? Y(N), # of Times 1

COMMENTS:

NO TREATMENT RECOMMENDED ON THIS ANAD STREAM.
 PATTERNS ARE VERY SPORADIC IN THE UPPER TIDAL ZONE. THEY ARE WEATHERING AND APPEAR TO POSE NO THREAT TO FISH OR WILDLIFE. ACTIVE EAGLE NEST ADJACENT TO STREAM TREATMENT WOULD NOT RESULT IN NET ENVIRONMENTAL GAIN.

ACE 6891100

4/25

ANAD
SSAT DATA ENTRY FORM

PAGE 1 OF 2

GENERAL DATA

SEG ID: SI-008 SUBDIV: 251-81 TEAM: 14 SURVEY DATE: 5/1/90
PAVEMENT: CHAR — AREA — THICKNESS — TARBALLS X
OILED: LGS — VEG — TRH — DBR — WAVE EXP: LW X MD — HG —
FAX RCVD: — DT: — AGENCY DISAGREE: —
EST SUBDIV LGTH: 200 OIL CATEGORY: W — M — N — VL 540 NO — U —

SURFACE DATA

SURFACE SEDIMENT: BRK — BLD 10 COB 10 PEB 30 GRN 40 SAN 10 MUD — VEG —

CHAR #: 1 OIL CHAR: ST OIL DIST: CONT — BRKN — PTCH — SPLH X
OIL CLR: DBL FILM CLR: RW TIDAL ZONE: SU — UI X MI — LI —

CHAR #: 2 OIL CHAR: MS OIL DIST: CONT — BRKN — PTCH — SPLH X
OIL CLR: DBL FILM CLR: RW TIDAL ZONE: SU — UI X MI — LI —

CHAR #: 3 OIL CHAR: PT OIL DIST: CONT — BRKN — PTCH — SPLH X
OIL CLR: DBR FILM CLR: TL TIDAL ZONE: SU X UI — MI — LI —

CHAR #: 4 OIL CHAR: TB OIL DIST: CONT — BRKN — PTCH — SPLH X
OIL CLR: DBL FILM CLR: RW TIDAL ZONE: SU — UI X MI — LI —

CHAR #: — OIL CHAR: — OIL DIST: CONT — BRKN — PTCH — SPLH —
OIL CLR: — FILM CLR: — TIDAL ZONE: SU — UI — MI — LI —

CHAR #: — OIL CHAR: — OIL DIST: CONT — BRKN — PTCH — SPLH —
OIL CLR: — FILM CLR: — TIDAL ZONE: SU — UI — MI — LI —

CHAR #: — OIL CHAR: — OIL DIST: CONT — BRKN — PTCH — SPLH —
OIL CLR: — FILM CLR: — TIDAL ZONE: SU — UI — MI — LI —

CHAR #: — OIL CHAR: — OIL DIST: CONT — BRKN — PTCH — SPLH —
OIL CLR: — FILM CLR: — TIDAL ZONE: SU — UI — MI — LI —

9/25

No Pits Dug ^{ANAD}
SSAT DATA ENTRY FORM

SUBSURFACE DATA

PAGE 2 OF 2

SEGMENT ID: SI-008 SUBDIV: 251-81
10210

PIT # PIT DEPTH OIL CHARACTER OIL INTVAL: FROM TO
QUANT: OIL CLR: FLM CLR: ZONE: SU UI MI LI
SUBSURF SEDIMENT: BRK BLD COB PEB GRN SAN MUD VEG

PIT # PIT DEPTH OIL CHARACTER OIL INTVAL: FROM TO
QUANT: OIL CLR: FLM CLR: ZONE: SU UI MI LI
SUBSURF SEDIMENT: BRK BLD COB PEB GRN SAN MUD VEG

PIT # PIT DEPTH OIL CHARACTER OIL INTVAL: FROM TO
QUANT: OIL CLR: FLM CLR: ZONE: SU UI MI LI
SUBSURF SEDIMENT: BRK BLD COB PEB GRN SAN MUD VEG

PIT # PIT DEPTH OIL CHARACTER OIL INTVAL: FROM TO
QUANT: OIL CLR: FLM CLR: ZONE: SU UI MI LI
SUBSURF SEDIMENT: BRK BLD COB PEB GRN SAN MUD VEG

PIT # PIT DEPTH OIL CHARACTER OIL INTVAL: FROM TO
QUANT: OIL CLR: FLM CLR: ZONE: SU UI MI LI
SUBSURF SEDIMENT: BRK BLD COB PEB GRN SAN MUD VEG

PIT # PIT DEPTH OIL CHARACTER OIL INTVAL: FROM TO
QUANT: OIL CLR: FLM CLR: ZONE: SU UI MI LI
SUBSURF SEDIMENT: BRK BLD COB PEB GRN SAN MUD VEG

PIT # PIT DEPTH OIL CHARACTER OIL INTVAL: FROM TO
QUANT: OIL CLR: FLM CLR: ZONE: SU UI MI LI
SUBSURF SEDIMENT: BRK BLD COB PEB GRN SAN MUD VEG

PIT # PIT DEPTH OIL CHARACTER OIL INTVAL: FROM TO
QUANT: OIL CLR: FLM CLR: ZONE: SU UI MI LI
SUBSURF SEDIMENT: BRK BLD COB PEB GRN SAN MUD VEG

PROBLEMS: ACE 6891102

SHORELINE OILING SUMMARY (ANAD)

REVISION NO. 04/13/90

OG CAL LARSON USCG DREHER, CWE SEGMENT ST/ SI 908 6/25
 BIO KEN CRITCHLOW LAND REP MIKE GOODWIN STREAM 251-B1-10010 (OF)
 EXXON DARLYL YOE ADFG: ED WEISS TIME 01:45 to 02:30
 TEAM NO. 14 TIDE LEVEL 0.1 FT DATE 5/1/90
 EST. SUBDIVISION LENGTH: 200 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R % B 10 % C 10 % P 30 % G 40 % S 10 % M % V %
 SLOPE: Lang 75 % Hang 25 % Vert % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W m M m N m VL 540 m NO m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR						IMPACTED ZONES			
	IC	IB	IP	IS	SB/BR	DBL/RW	GY/SL	WHT/TL	LR		SU	U	M	L
ASPHALT PAVEMENT														
POOLED														
COVER														
COAT														
STAIN				✓		✓					✓			
MOUSSE				✓		✓					✓			
PATTIES				✓				✓			✓			
TARBALLS				✓		✓					✓			
FILM														
NO OIL												✓	✓	

PAVEMENT H F S sq. m by cmPATTIES / TARBALLS 10 BAGSNEAR SHORE SHEEN? NO BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

Did you COLLECT
DEBRIS ?
☐ YES ☒ NO

TYPE #BAGS

Photographs:

Roll No. Frames

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM)	BELOW		OIL / FILM COLOR						PIT ZONE				A N A	SHEEN (Y/N)	!	SURFACE - SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UO	UC	SB/BR	DBL/RW	GY/SL	WHT/TL	LR		SU	U	M	L				

COMMENTS NO PITS DUG DUE TO LACK OF OIL PENETRATIONREVIEWED DATE

ACE 6891103

REVISION:03/24/90

8/25

Seg ID: SI-008 Subdiv: 251-81-10010

Survey Date: 5/1/90

Comments by: Ken Critchlow

The upper edge of the MITZ and the STZ were observed to contain a narrow band of sargassum, mussel, patters and small starballs. Oil of any sort was scattered along the upper portion of the stream on both banks.

The intertidal biota in this lagoon-stream site was very rich. The MITZ contained abundant barnacle and littorinid populations. The LITZ was primarily a muddy substrate that seems to support fairly dense clam beds and eelgrass beds.

The lower west bank of the stream is the site of an active bald eagle nest. Both members of the pair were observed, with the female on the nest. This nest site should not be disturbed. No clear benefit would be gained from cleanup.

KR Critchlow

ANADSSAT 9/25

ADF&G MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS ~~SS~~ DS TS AVS SCHA MMS PTA

2 REGION: PWS KP,CI 2AP

METHOD: Aerial Ground Boat

3 DATE: 5-2-90

15 HIGH TIDE TIMES: 1

21 TEAM RECORDER: E. WEISS

4 START TIME: 1335

16 HIGH TIDE HTS: 1

22 OBSERVERS: K. LARSON R. CRITCHLOW, M. GOODWIN, D. YOE

5 STOP TIME: 1455

17 LOW TIDE TIMES: 1509

23 AGENCY: ADF&G/ADNR

6 SEGMENT #: SI008

18 LOW TIDE HTS: .5

24 PHOTOS TAKEN: Y X

7 STATION #: _____

19 TIDE HT AT SURVEY: _____

Roll #: _____ Frame: _____

8 K-UNIT: K0101

(Ebb) Slack Flood Slack

25 VIDEO TAKEN: Y X TAPE#: _____

9 STAT AREA: _____

20 USCG QUAD: _____

Start: _____ End: _____

10 LAT: _____

11 LONG: _____

26 SAMPLES TAKEN? Y X Number

12 SOURCE: Map Loran

13 LOCATION: BACK BAY BEAR COVE, SHUYAK IS.

14 DESCRIPTION: _____

Oil _____
Sediment _____
Biological _____
Water _____

EXTENT OF OIL

	SHORELINE				STREAM			
	L	W	M ²	%	L	W	M ²	%
27 SURFACE COVERAGE								
28 SURFACE THICKNESS								
29 PENETRATION								

30 OVERALL OIL IMPACT: N (VL) L M H

31 OIL TYPE: Pooled Mouse Tar Asphalt Sticky Stain

32 OILED DEBRIS? Y (N)

33 SHORELINE TYPE: Headland Lagoon Low-lying Rocks Marsh Beach Cove

34 WAVE EXPOSURE: High Moderate Low

35 SUBSTRATE TYPE: Bedrock _____ Boulder 20 Cobble 30

Gravel 50 Sand _____ Mud/silt _____

36 CATALOGED ANAD. FISH SREAM? Y X N

37 CATALOG #: 251-81-10010

38 STREAM NAME: BACK BAY CREEK

39 OIL IN STREAM BED? Y X

40 OIL ON STREAM BANKS? X N

41 OIL ON BEACH ADJACENT TO MOUTH? Y X N
(within 50 meters)

42 OIL WITHIN 1 MILE OF STREAM? Y N

Where: _____

43 ANADROMOUS FISH PRESENT? Y N

44 ANADROMOUS FISH OBSERVATION

Species	Aerial	Ground

COMMENTS: SPORADIC BAND OF TAR/MOUSE PATTIES/SPLATTERINGS
1M WIDE AROUND EAST SIDE OF LAGOON TO STREAM
MOUTH. BECOMING MORE SPORADIC ON WEST SIDE
OF LAGOON.

ACE 6891106 -S

ANADROMOUS FISH STREAM EVALUATION ✓SEGMENT ST/K01-01-SI-008 STREAM NO: 251-81-10010 DATE 5/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
1B Salmon stream mouth - spawning (7/10 to 8/31)
5T-1 All Bald Eagle nests (3/1 to 6/1) (Seabird colony in adjacent
segment SI-009)
8AA Sensitive estuary
9LM Land mammals

See attached Ecological Constraint sheet for specific constraints and
contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Subject stream exists in subdivision A (1 of 1). Avoid disturbance of
intertidal biota.

ARCHAEOLOGICAL CONSTRAINTS:

If treatment is planned, a cultural resource evaluation is required prior
to shoreline treatment.

SHPO SIGNATURE: Rachel Dan Oum DATE: 5/22/90Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

<u>X</u> No Treatment Recommended	<u> </u> Snare/Absorbent Booms
<u> </u> Treatment Recommended	<u> </u> Oil Snares (pom poms)
<u> </u> Manual Pickup	<u> </u> Absorbents (pads, rolls, etc)
<u> </u> Bioremediation	<u> </u> Spot Washing: <u> </u> Wands
<u> </u> Tarmat Removal	<u> </u> Beach Cleaner
	<u> </u> Other (see comments)

COMMENTS:

 TAG COMMENTS:

 TAG APPROVAL DATE: 5/18/90ADEC Art Weimer Art WeimerEXXON Andy Tar Andy TarNOAA Gary Petrac Gary PetracUSCG G.A. Reiter G.A. ReiterFOSC [Signature] DATE: MAY 25 1990

ACE 68911414F/S/FF

✓ SEGMENT STI SI 00E

STREAM 251-61-1000

DATE 5/1 90

CHECKLIST

- In Answer _____
 Approx. Scale _____
 Sory/Safe Reading _____
 On Onset _____
 Width _____
 Length _____
 % Cover _____
 Substrate Character _____
 Ext. Hrt/Ast/AstL _____
 SCL _____
 Profile Location(s) _____
 Profile(s) _____
 Fit Location(s) _____
 Profile Location(s) _____

LEGEND



PM - 10: Submissions CBI

24

PM - Information Out**CTAC**

Constructs the Database

CT/0

Expanding Client Bases

CTP

Factory Distribution

10

Spread Distribution

Old Vegetation

Press forward, director,
and further

Oil Character Length (in): AP _____ PO _____ CV _____ CT _____ ST 03 MS 03 PT .25 TB 373 FL _____ NO _____

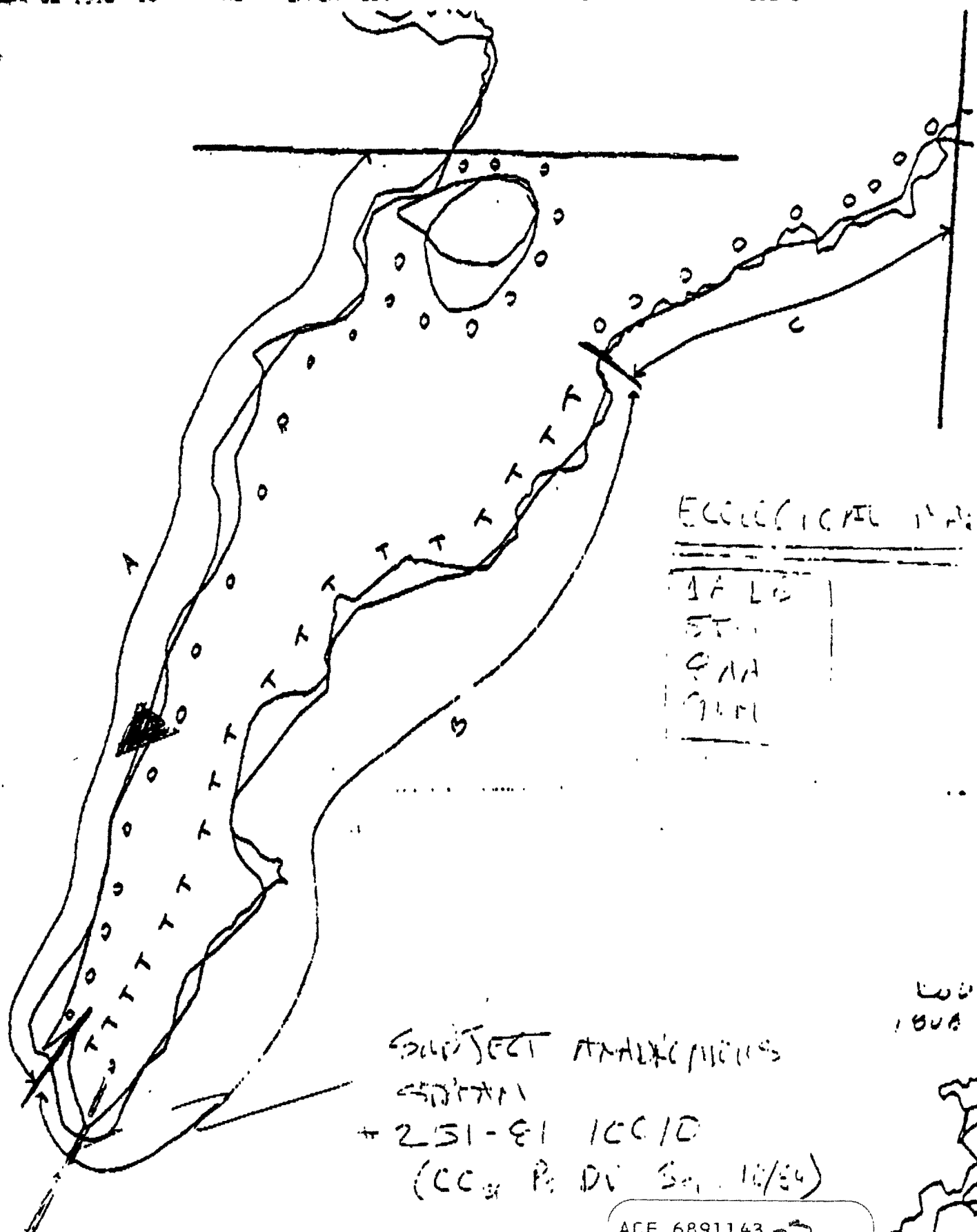
[illegible]

SKEICH MAP

ACE 6891142

~~FILED~~ FSH/MLD
DAB/RS

७५३७



XXXX Wide

//// Medium

----- Narrow

TTTT Very Light

SI - 8

ADEC Segment Length: 3257m

ACE 6891143 -

Map Key: KOD-1806

Name: Pealand

Date: 4-1-50

SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-008 SUBDIVISION A (1 OF 3) DATE 4/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
5T All bald eagle nests (3/1 to 6/1)
Active bald eagle nests (3/1 to 9/1)
8AA Sensitive Estuary

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to unoiled biota and substrate. See attached Ecological Constraint Sheet.

ARCHAEOLOGICAL CONSTRAINTS:

If treatment is planned, a cultural resource evaluation is required prior to shoreline treatment.

SHPO SIGNATURE: Charles E. Hume DATE: 4/20/90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 0 m: No Oil 1173 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

<u>X</u> No Treatment Recommended	<u> </u> Snare/Absorbent Booms
<u> </u> Treatment Recommended	<u> </u> Oil Snares (pom poms)
<u> </u> Manual Pickup	<u> </u> Absorbents (pads, rolls, etc)
<u> </u> Bioremediation	<u> </u> Spot Washing: <u> </u> Wands
<u> </u> Tarmat: <u> </u> Breakup	<u> </u> Beach Cleaner
<u> </u> Removal	<u> </u> Other (see comments)

COMMENTS:

TAG COMMENTS:

TAG APPROVAL DATE: 4/20/90.
ADEC ART WEINER Art Weiner
EXXON ANDY TEAZ Andy Teaz
NOAA BILL WERCOTT Bill Wercott
USCG KENNETH KERR Kenneth Kerr

FOSC: ML DATE: 4-26-90

ACE 689110745

KODIAK ECOLOGICAL CONSTRAINTS

SI-008-A, B, C

- 1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
No disturbance of stream bed or banks unless authorized by ADF&G. No beach flushing into stream drainage. No bioremediation or other chemical application within 100m of stream. Contact ADF&G Habitat Division prior to treatment for permits.
- 1C Salmon fry nursery area (4/31 to 7/31)
- 1D Kotol Bay Hatchery release
Pink salmon - late May, early June; Chum salmon - June; Sockeye salmon - early July.
- 1H Remote release site
- 1I Gill net area
- 1J Purse seine area
Mainland, West side Kodiak, Shuyak & Moser/Olga Bay - 6/9 to 10/1.
East side Kodiak, East side Afognak - 7/4 to 10/1.
- 1K Purse seine hook-off
- 1L Set net sites
USFWS setnet uplands permit 5/15 to 9/15.

For Codes 1C through 1L contact ADF&G for specific dates, locations and constraints.
- 2M Herring spawning (4/15 to 6/30)
Restrict boat traffic to essential minimum. Avoid damage to unholed intertidal and subtidal algae and seagrass. Contact ADF&G for specific dates and locations.
- 3N, 3P Harbor seal and sea lion pupping (5/10 to 6/30)
Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 3O, 3Q Harbor seal and sea lion molting (8/15 to 9/15)
Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 5R Seabird colony (5/1 to 8/31)
Restrict air traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance. Contact ADF&G and USFWS prior to treatment.
- 5S Shorebird/waterfowl concentration (4/1 to 5/15)
Restrict all activity to essential minimum, especially air traffic.
- 5T All Bald Eagle nests (3/1 to 6/1)
Active Bald Eagle nests (3/1 to 9/1)
Restrict air traffic to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates.
- 6U Recreation: Tent sites (6/1 to 9/15)
- 6V Anchorages (6/1 to 9/15)
- 6W Forest Service cabins (6/1 to 9/15)
- 6X Lodge (6/1 to 9/15)
- 6Y Special use destination
- 7Z Subsistence area: Salmon harvesting (6/1 to 9/30)
- 7HH Finfish harvesting
- 7H Deer harvesting (8/1 to 1/7)
- 7JJ Invertebrate harvesting
- 7KK Bear harvesting (4/1 to 5/15 and 10/25 to 11/30)
For Codes 7Z through 7JJ contact ADF&G and Chenega Corporation for specific dates, locations, and constraints.

FIELD SHORELINE COMMENT SHEET

SEGMENT ST/ K0101/S1008 SUBDIVISION: A DATE 4-1-90NOAA
USCGNAME John Naughton SIGNATURE John J. Naughton☒ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTEDNo oil observedADEC
NAMEScott Shelton SIGNATURE Scott Shelton☒ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTEDBEAR Cove N/W side
No oil observed Helicopter fly by
K0101/S1008 Sub-A Has been a low priority for Agency
concerns. S/E BEAR Cove has more reported impact

LAND MANAGER

NAME Ray Burger ACNR SIGNATURE Ray Burger☐ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTEDNot assessed - DEC personnel have been on beach before & not
observed oil given low impact found on subdivision B
& no reported oiling ever on subd. A; team deemed this
low priority for assessment

ACE 6891109

OG Peelard USGS Neughton SEGMENT ST/ K0101/5700E
 BIO Spight LAND REP Guyon ADNR SUBDIVISION A
 EXXON Gyres ADEC Shelden TIME 13 : 08 to 14 : 11
 TEAM NO.: 19 TIDE LEVEL: 0 to +1 ft DATE 9 / 1 / 90
 EST. SUBDIVISION LENGTH: 1556 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☐ Foot ☐ Boat ☒ Helo WORKING DIRECTION: N to S
 SURFACE SEDIMENTS: R 10 % B 10 % C 20 % P 40 % G 10 % S 10 % M 0 % V 0 %
 SLOPE: Long 60 % Hang 20 % Vert 22 % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 0 m NO 1556 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR						IMPACTED ZONES			
	IC	IS	IP	IR	BR BK	OR RW	OL GY	SL DR	TL LR	SU	U	M	U	
ASPHALT PAVEMENT														
POOLED														
COVER														
COAT														
STAIN														
MOUSSE														
PATTIES														
TARBALLS														
FILM														
NO OIL										X	X	X	X	

PAVEMENT: H F S 0 sq. m by 0 cmPATTIES / TARBALLS 0 BAGSNEAR SHORE SHEEN? NO BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

DEBRIS COLLECTED

☐ YES ☒ NOTYPE 0#BAGS 0

Photographs:

Roll No. -Frames -

SUBSURFACE OIL

No Pits Dug

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CL)	BELOW		OIL / FILM COLOR								PIT ZONE				A N A	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		VO	VC	BR BL	OR RW	OL RL	GY GL	DR DL	TR TL	LR LL	SU	UI	MI	U			
							.																
							.																
							.																
							.																
							.																
							.																

COMMENTS

• No Pits Dug, surveyed by helicopter.

OG Penland

SKETCH MAP

SEGMENT ST/ K2121/51008

SUBDIVISION A

DATE 4 / 1 90

CHECKLIST

- ☒ N Arrow
- ☒ Approx. Scale
- ☒ Seg/Sub Endry
- ☒ Oil Dist.
- ☒ Width
- ☒ Length
- ☒ % Cover
- ☒ Substrate Character
- ☒ Est. HML/LVL
- ☒ GSI
- ☒ Profile Location(s)
- ☒ Photo(s)
- ☒ Pit Location(s)
- ☒ Photo Location(s)

LEGEND

1 Δ

Pt - No Subsurface Oil

2 Δ

Pt - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

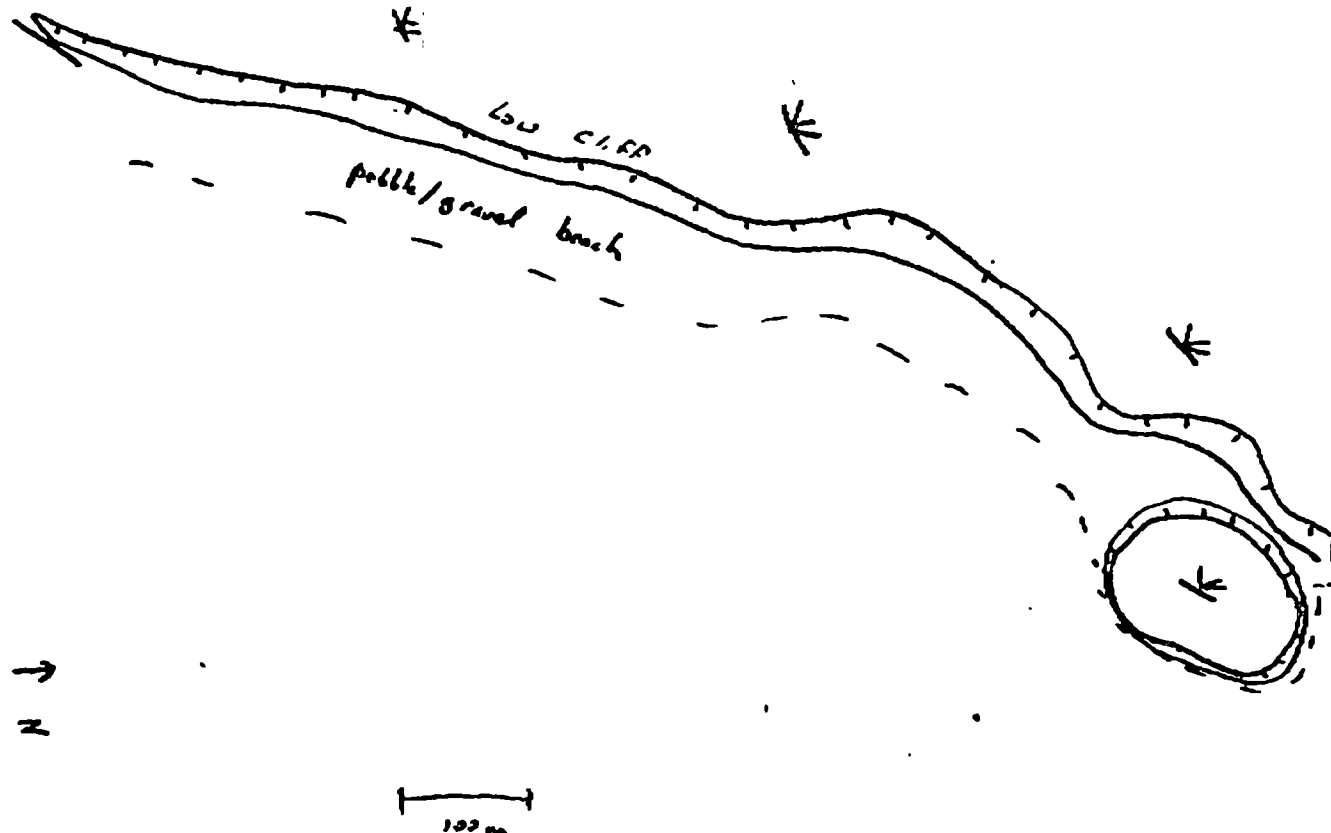
CT/S

Splashed Distribution

Oiled Vegetation

1 ➡

Photo location, direction,
and number



Oil Character Length (m): AP 0 PO 0 CV 0 CT 0 ST 0 MS 0 PT 0 TB 0 FL 0 NO 1556

REVISION: 08/04/99

ACE 6891111

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22/90

Segment ST / SI-008 Subdivision A Date (mo / day / yr) 4 / 1 / 90Time (24 hr) _____ Biologist SPIGHT(A) Substrate type and % of segments:
(1) Bedrock 10 (2) Boulder 10 (3) Cobble 20 (4) Pebble 40 (5) Sand 10 (6) Silt 10(B) Overall % cover of biota (% of segment): Dense _____ Moderate _____ Low 100

(C) Density, substrate preference (by number from A, above), & vertical zonation of major taxa: (upper-U; mid-M; low tidal-L); juveniles / adults (X), new settlement (3)

Photographs:
Roll No. _____

Frames _____

BARNACLES

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

MYTILUS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

GASTROPODS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

FUCUS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

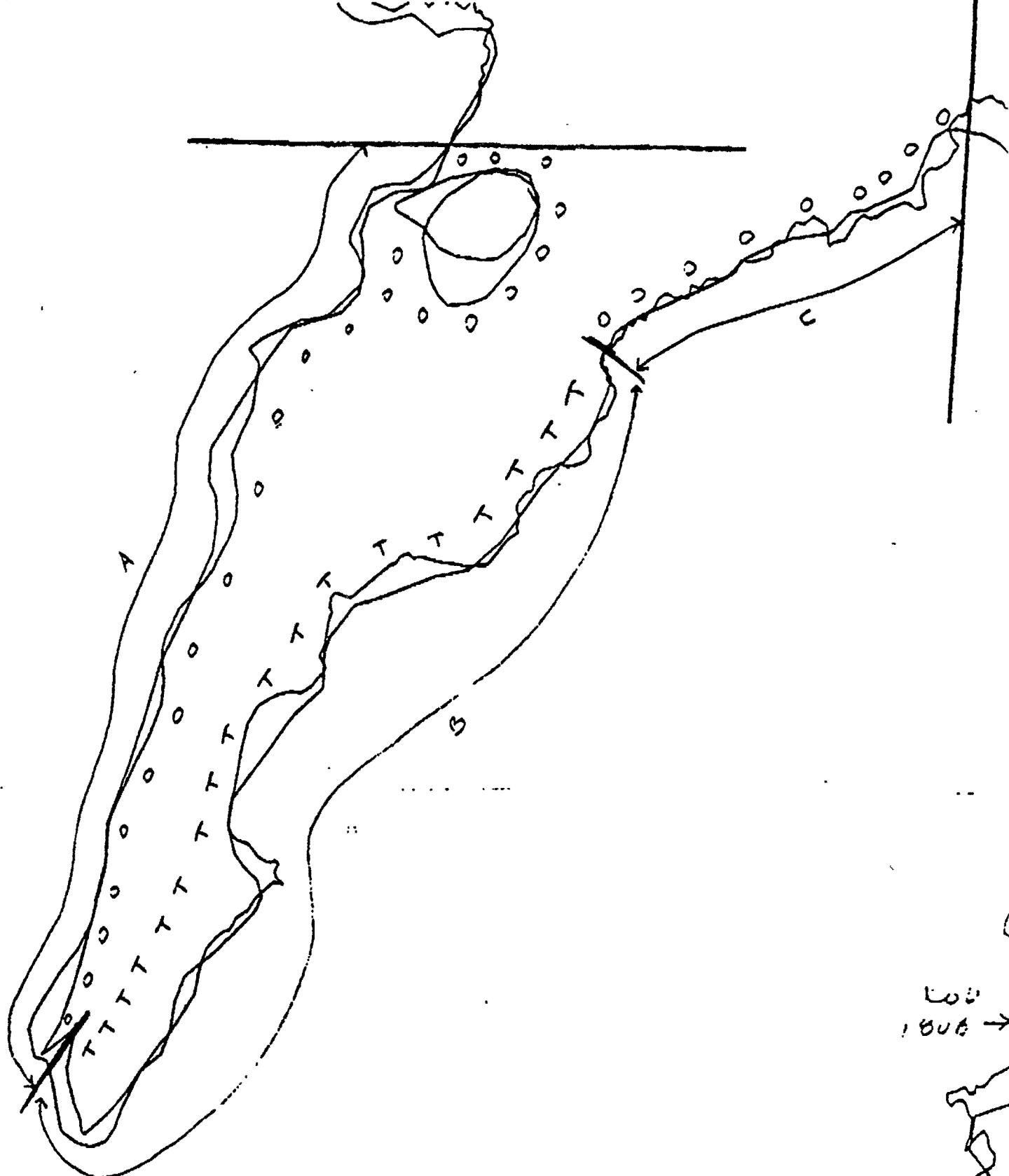
NOT PRESENT

Wildlife Observations/ General Comments:

Ecological Considerations:

Palanus glandula cobble. Barnacles typically dense on individual cobbles but occupied cobbles are scattered, thus overall densities low. Only upper part examined

ACE 6891112



ACE 6891113 -12

1000
1000 →

XXXX Wide
 /// Medium
 --- Narrow
 TTTT Very Light
 OOOO

SI-8

ADEC Segment Length: 3257m



Map Key: KOD-1800

Name: Penland

Date: 4-1-90

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/K01-01-SI-008 STREAM NO: 251-81-10010 DATE 5/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
1B Salmon stream mouth - spawning (7/10 to 8/31)
5T-1 All Bald Eagle nests (3/1 to 6/1) (Seabird colony in adjacent segment SI-009)
8AA Sensitive estuary
9LM Land mammals

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Subject stream exists in subdivision A (1 of 1). Avoid disturbance of intertidal biota.

ARCHAEOLOGICAL CONSTRAINTS:

If treatment is planned, a cultural resource evaluation is required prior to shoreline treatment.

SHPO SIGNATURE: Rachel Dan Owe DATE: 5/22/90

Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

<u>X</u> No Treatment Recommended	_____ Snare/Absorbent Booms
_____ Treatment Recommended	_____ Oil Snares (pom poms)
_____ Manual Pickup	_____ Absorbents (pads, rolls, etc)
_____ Bioremediation	_____ Spot Washing: _____ Wands
_____ Tarmat Removal	_____ Beach Cleaner
	_____ Other (see comments)

COMMENTS: _____

TAG COMMENTS: _____

TAG APPROVAL DATE: 5/18/90

ADEC Art Weimer Art Weimer

EXXON Andy Tar Andy Tar

NOAA Gary Petros Gary Petros

USCG G.A. Reiter G.A. Reiter

FOSC: [Signature]

DATE: MAY 25 1990

ACE 6891115 + F/FF

STATE OF ALASKA

DEPARTMENT OF FISH AND GAME

STEVE COWPER, GOVERNOR

Rapifax 349-1723

333 RASPBERRY ROAD
ANCHORAGE, ALASKA 99518-1599
PHONE: (907) 344-0541

KODIAK-ANAD SCAT

K-0101

RAPIFAX TRANSMITTAL SHEET

TO: Re: Middelton
Anch. HabitatDATE: 5/8/90No. Pages: 9
(including this page)FROM: J. Barnhart
Kodiak HabitatMESSAGE: Back Bay Creek, Bear Cove, Shuyak Island
AFS 251-B1-10010
Segment S1002ALASKA DEPT. OF
FISH & GAME
MAY 08 1990
REGION II
HABITAT DIVISION

ACE 6891116 +5

2/25

FIELD SHORELINE COMMENT SHEET

ASC# (BACK BAY CREEK)

SEGMENT ST / SI-008 SUBDIVISION: 251-81-10010 DATE 01 MAY 90USCGNAME Kerwin L. Dreher SIGNATURE CWO K. L. Dreher☒ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTEDADFGADEC → ~~ADNR~~NAME EDWARD W. WEISS SIGNATURE Edward W. Weiss☐ NO TREATMENT RECOMMENDED
COMMENTS☒ TREATMENT SUGGESTED

RECOMMEND MANUAL PICK-UP OF T.BALLS / JUNKIES EAST SIDE OF LAGOON. IMPACT ON WEST SIDE COULD BE PICKED UP AT SAME TIME, BUT THE IMPACT ON THE NORTH SIDE IS SIGNIFICANTLY LESS AND MORE OCCASIONAL.

ADNRLAND MANAGER → ~~ADNR~~NAME Mike Goodwin SIGNATURE Mike Goodwin☐ NO TREATMENT RECOMMENDED
COMMENTS☒ TREATMENT SUGGESTED

This segment contains state lands proposed for future inclusion into SAWYAK Island State Park and is an area of high recreational potential as well as providing for wildlife habitat. An active Eagle nest was observed in this immediate area. This area provides a commonly used anchorage in this protected bay for recreational and commercial fishing vessels. Manual pick-up of T.balls and scattered junkies on the East side of the bay is recommended.

3/25

OPERATIONS FIELD NOTES

See Back for Instructions

SEGMENT ID ANAD SI-008 (BACK BAY CREEK)
STREAM ID # 251-B1-10010ANNOTATED MAP INCLUDED Y(N)DATE 5-1-90
NAME DARAIL YOE
TEAM # 14

SURFACE OIL	Quantities in Meters			Treatment Recommendation						
	Length	Width	Area	None	Bioremediation		Tilling		Spot Hot Water	
					Y/N	% Treat	Y/N	% Treat	Y/N	% Treat
Wide Band	SEE BELOW			✓						
Medium Band										
Narrow Band										
Very Light										
TOTAL MANDAYS						—		—		—

SUBSURFACE OIL

Other (Describe)?	<u>NONE FOUND</u>

TARMATS	Quantities in Meters			Treatment Rec			# of Bags	Mandays Required	
	Length	Width	Thick(cm)	None	Breakup	Remove		Breakup	Remove
Area #1	<u>NONE FOUND</u>			☒					
Area #2									
Area #3									
Area #4									
Sporadic Mats									

MANUAL PICKUP	Type of Debris			In Meters		# of Bags	Pickup	Manday
	Mousse Tarballs	Oiled Veget	Cleanup Debris	Length	Width		Y/N	Estimate
"Pocket" #1	☒			<u>250</u>	<u>.5</u>	<u>651</u>	<u>N</u>	<u>—</u>
"Pocket" #2	☒			<u>90</u>	<u>.5</u>		<u>N</u>	<u>—</u>
"Pocket" #3	☒			<u>.25</u>	<u>.25</u>		<u>N</u>	<u>—</u>
Random/Continuous	☒			<u>200</u>	<u>.5</u>		<u>N</u>	<u>—</u>

OILED LOGS <u>Y(N)</u>	OILING <u>H/M/L</u>	QUANTITY <u>L/M/S</u>	BURN <u>Y/N</u>
------------------------	---------------------	-----------------------	-----------------

Is there Other Debris on the Beach? Y(N) How Many Bags? — Is it mingled with the Oiled Debris Y(N)
LOGS & COMMERCIAL FISHING GEAR

GENERAL

Snow covering 0 % of the Supratidal Zone?Wave Exposure H/M/LAccess Limitations: GOOD ACCESS - LONG SHALLOW BAYSnare Boom/Pom Poms Recommended? N/OWould the production Craft have to be relocated to complete work on this subdivision? Y(N), # of Times 1

COMMENTS:

NO TREATMENT RECOMMENDED ON THIS ANAD STREAM.
PATTIES ARE VERY SPORADIC IN THE UPPER TIDAL
ZONE. THEY ARE WEATHERING AND APPEAR TO
POSE NO THREAT TO FISH OR WILDLIFE. ACTIVE EAGLE
NEST ADJACENT TO STREAM. TREATMENT WOULD NOT
RESULT IN NET ENVIRONMENTAL GAIN.

ACE 6891118

4/25

ANAD

SSAT DATA ENTRY FORM

PAGE 1 OF 2GENERAL DATA

SEG ID: SI-008 SUBDIV: 251-81 TEAM: 14 SURVEY DATE: 5/1/90
PAVEMENT: CHAR — AREA — THICKNESS — TARBALLS X
OILED: LGS — VEG — TRH — DBR — WAVE EXP: LW X MD — HG —
FAX RCVD: — DT: — AGENCY DISAGREE: —
EST SUBDIV LGTH: 200 OIL CATEGORY: W — M — N — VL 540 NO — U —

SURFACE DATA

SURFACE SEDIMENT: BRK — BLD 10 COB 10 PEB 30 GRN 40 SAN 10 MUD — VEG —

CHAR #: 1 OIL CHAR: ST OIL DIST: CONT — BRKN — PTCH — SPLH X
OIL CLR: DBL FILM CLR: RW TIDAL ZONE: SU — UI X MI — LI —

CHAR #: 2 OIL CHAR: MS OIL DIST: CONT — BRKN — PTCH — SPLH X
OIL CLR: DBL FILM CLR: RW TIDAL ZONE: SU — UI X MI — LI —

CHAR #: 3 OIL CHAR: PT OIL DIST: CONT — BRKN — PTCH — SPLH X
OIL CLR: DBL FILM CLR: TL TIDAL ZONE: SU X UI — MI — LI —

CHAR #: 4 OIL CHAR: TB OIL DIST: CONT — BRKN — PTCH — SPLH X
OIL CLR: DBL FILM CLR: RW TIDAL ZONE: SU — UI X MI — LI —

CHAR #: — OIL CHAR: — OIL DIST: CONT — BRKN — PTCH — SPLH —
OIL CLR: — FILM CLR: — TIDAL ZONE: SU — UI — MI — LI —

CHAR #: — OIL CHAR: — OIL DIST: CONT — BRKN — PTCH — SPLH —
OIL CLR: — FILM CLR: — TIDAL ZONE: SU — UI — MI — LI —

CHAR #: — OIL CHAR: — OIL DIST: CONT — BRKN — PTCH — SPLH —
OIL CLR: — FILM CLR: — TIDAL ZONE: SU — UI — MI — LI —

CHAR #: — OIL CHAR: — OIL DIST: CONT — BRKN — PTCH — SPLH —
OIL CLR: — FILM CLR: — TIDAL ZONE: SU — UI — MI — LI —

ACE 6891119

9/25

ANAD

SSAT DATA ENTRY FORM

PAGE 2 OF 2

251-81

SUBDIV: 10010

PIT # 1 PIT DEPTH 10 OIL CHARACTER 1 OIL INTVAL: FROM 1 TO 10
 QUANT: 1 OIL CLR: 1 FLM CLR: 1 ZONE: SU 1 UI 1 MI 1 LI 1
 SUBSURF SEDIMENT: BRK 1 BLD 1 COB 1 PEB 1 GRN 1 SAN 1 MUD 1 VEG 1

PIT # _____ PIT DEPTH _____ OIL CHARACTER _____ OIL INTVAL: FROM _____ TO _____
 QUANT: _____ OIL CLR: _____ FLM CLR: _____ ZONE: SU _____ UI _____ MI _____ LI _____
 SUBSURF SEDIMENT: BRK BLD COB PEB GRN SAN MUD VEG

PIT # _____ PIT DEPTH _____ OIL CHARACTER _____ OIL INTVAL: FROM _____ TO _____
 QUANT: _____ OIL CLR: _____ FLM CLR: _____ ZONE: SU _____ UI _____ MI _____ LI _____
 SUBSURF SEDIMENT: BRK _____ BLD _____ COB _____ PEB _____ GRN _____ SAN _____ MUD _____ VEG _____

PIT # _____ PIT DEPTH _____ OIL CHARACTER _____ OIL INTVAL: FROM _____ TO _____
 QUANT: _____ OIL CLR: _____ FLM CLR: _____ ZONE: SU _____ UI _____ MI _____ LI _____
 SUBSURF SEDIMENT: BRK _____ BLD _____ COB _____ PEB _____ GRN _____ SAN _____ MUD _____ VEG _____

PIT # _____ PIT DEPTH _____ OIL CHARACTER _____ OIL INTVAL: FROM _____ TO _____
QUANT: _____ OIL CLR: _____ FLM CLR: _____ ZONE: SU _____ UI _____ MI _____ LI _____
SUBSURF SEDIMENT: BRK BLD COB PEB GRN SAN MUD VEG

PIT # _____ PIT DEPTH _____ OIL CHARACTER _____ OIL INTVAL: FROM _____ TO _____
QUANT: _____ OIL CLR: _____ FLM CLR: _____ ZONE: SU _____ UI _____ MI _____ LI _____
SUBSURF SEDIMENT: BRK _____ BLD _____ COB _____ PEB _____ GRN _____ SAN _____ MUD _____ VEG _____

PIT # _____ PIT DEPTH _____ OIL CHARACTER _____ OIL INTVAL: FROM _____ TO _____
QUANT: _____ OIL CLR: _____ FLM CLR: _____ ZONE: SU _____ UI _____ MI _____ LI _____
SUBSURF SEDIMENT: BRK _____ BLD _____ COB _____ PEB _____ GRN _____ SAN _____ MUD _____ VEG _____

PIT # _____ PIT DEPTH _____ OIL CHARACTER _____ OIL INTVAL: FROM _____ TO _____
QUANT: _____ OIL CLR: _____ FLM CLR: _____ ZONE: SU _____ UI _____ MI _____ LI _____
SUBSURF SEDIMENT: BRK _____ BLD _____ COB _____ PEB _____ GRN _____ SAN _____ MUD _____ VEG _____

ACE 6891120

SHORELINE OILING SUMMARY (ANAD)

P. 6/9

REVISION NO. 04/13/90

OG CAL LARSON USCG DREHER, CWE SEGMENT ST/SEI 908 4/25
 BIO KEN CRITCHLOW LAND REP MIKE GOODWIN STREAM ZSI-BI-10010 (OF)
 EXXON DARRYL YOE ADFG: ED WEISS TIME 01:45 to 02:30
 TEAM NO. 14 TIDE LEVEL -0.1 FT DATE 5/1/90
 EST. SUBDIVISION LENGTH: 200 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R % B 10 % C 10 % P 30 % G 40 % S 10 % M % V %
 SLOPE: Lang 75 % Hang 25 % Vert % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W m M m N m VL 540 m NO m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR					IMPACTED ZONES				
	C	B	P	S	BR	BL	GY	SL	TL	LR	SU	U	M	L
ASPHALT PAVEMENT														
POOLED														
COVER														
COAT														
STAIN				✓		✓						✓		
MOUSSE				✓		✓						✓		
PATTIES				✓					✓		✓			
TARBALLS				✓		✓						✓		
FILM														
NO OIL													✓	✓

PAVEMENT H F S sq. m by cmPATTIES / TARBALLS 10 BAGSNEAR SHORE SHEEN? ☒ NO BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

Did you COLLECT DEBRIS
☐ YES ☒ NO

TYPE #BAGS

Photographs:

Roll No. Frames

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM)	BELOW		OIL / FILM COLOR								PIT ZONE				A N A	SHEEN (Y/N)	⚠	SURFACE - SUBSURFACE SEDIMENTS
		OP	OR	CL	OF	NO		UO	UC	BR	BL	GY	SL	TL	LR	SU	UR	ML	LI						

COMMENTS NO PITS DUG DUE TO LACK OF OIL PENETRATIONREVIEWED DATE

ACE 6891121

MAY 08 '90 11:46 DEPTAHHAAAAAAAAA

8/25

Seq ID: SI-008. Subdiv: 251-81-10010

Survey Date: 5/1/90

Comments by: Ken Critchlow

The upper edge of the UTL and the STZ were observed to contain a narrow band of silt, moss, pebbles and small twigs. Oil of any sort was scattered along the upper portion of the stream on both banks.

The intertidal biota in this lagoon-stream site was very rich. The MITZ contained abundant barnacle and littorinid populations. The LITZ was primarily a muddy substrate that seems to support fairly dense clam beds and eelgrass beds.

The lower west bank of the stream is the site of an active bald eagle nest. Both members of the pair were observed, with the female on the nest. This nest site should not be disturbed. No clear benefit would be gained from cleanup.

KR Cutchlow

ANADSSAT 9/25

ADF&G MULTI-ASSESSMENT DATA FORM

 1 SURVEY TYPE: BS ~~SS~~ DS TS AVS SCHA MMS PTA

 2 REGION: PWS KP,CI ~~DAP~~

 METHOD: Aerial ~~Ground~~ Boat

3 DATE: 5-2-90

15 HIGH TIDE TIMES: 1

21 TEAM RECORDER: E. WEISS

4 START TIME: 1335

16 HIGH TIDE HTS: 1

22 OBSERVERS: K. LARSON R. CRITCHFIELD, M. GOODWIN, D. YONES

5 STOP TIME: 1455

17 LOW TIDE TIMES: 1500

23 AGENCY: ADF&G/ADNR/

6 SEGMENT #: SI008

18 LOW TIDE HTS: .5

24 PHOTOS TAKEN: Y X

7 STATION #:

19 TIDE HT AT SURVEY:

Roll #: Frame:

8 K-UNIT: K0101

(Ebb) Slack Flood Slack

25 VIDEO TAKEN: Y X TAPE#:

9 STAT AREA:

20 USCG QUAD:

Starts: Ends:

10 LAT:

11 LONG:

26 SAMPLES TAKEN? Y X Number

12 SOURCE: Map Loran

Oil

13 LOCATION: BACK BAY BEAR COVE, SHUYAK IS.

Sediment

14 DESCRIPTION:

Biological

EXTENT OF OIL

Water

	SHORELINE				STREAM			
	L	W	H ²	%	L	W	H ²	%
27 SURFACE COVERAGE								
28 SURFACE THICKNESS								
29 PENETRATION								

36 CATALOGED ANAD. FISH SKEIN? X N

37 CATALOG #: 251-81-10010

38 STREAM NAME: BACK BAY CREEK

39 OIL IN STREAM BED? Y X

40 OIL ON STREAM BANKS? X N

30 OVERALL OIL IMPACT: N (PL) L M H

41 OIL ON BEACH ADJACENT TO MOUTH? (within 50 meters) Y N

31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain

42 OIL WITHIN 1 MILE OF STREAM? Y N

32 OILED DEBRIS? Y (N)

Where:

33 SHORELINE TYPE: Headland Low-lying Rocks Beach Cove

43 ANADROMOUS FISH PRESENT? Y N

Lagoon Marsh

34 WAVE EXPOSURE: High Moderate Low

44 ANADROMOUS FISH OBSERVATION

35 SUBSTRATE TYPE: Bedrock Boulder 20 Cobble 30

Gravel 50 Sand Mud/silt

Species	Aerial	Ground

COMMENTS: SPORADIC BAND OF TAR/MOUSE PATTERIES/SPATTERINGS

1 M WIDE AROUND EAST SIDE OF LAGOON TO STREAM MOUTH. BECOMING MORE SPORADIC ON WEST SIDE OF LAGOON.

ACE 6891124 -5

OIL CHARACTER

NO No Visible Oil
 TB Tar Ball (<10cm diameter)
 PT Patty (>10cm diameter)
 MS Mousse Patches or Accumulations
 AP Pavement - Hard/Friable/Soft /H/F/S
 PO Pooled oil (>1 cm thick in cracks and interstices)
 CV Cover (>1 mm thick on sediments and interstices)
 CT Coat (< 1 mm thick; can be scratched off)
 ST Stain (<0.1mm thick; cannot be scratched off)
 FL Film or Sheen

OIL COLOR

SBL Shiny Black
 DBL Dull Black
 GY Grey
 DBR Dark Brown
 LBR Light Brown

FILM COLOR

BR Brown
 RW Rainbow
 SL Silver
 TL Translucent

DISTRIBUTION

/C Continuous Distribution >90%
 /B Broken Distribution 50-89%
 /P Patchy or Sporadic 10-49%
 /S Splashes (occasional splatters or drips) <10%

SUBSURFACE OIL CHARACTER

OP Oil fills Pore Spaces between Sediment Particles
 OR Residual Oil on Sediments or in Pore Spaces but not saturated
 OF Thin film of residual oil on sediments
 OL Lens or Layer of Buried Oiled Sediments

SUBSURFACE QUANTIFIER

/UO Pit/Trench did NOT extend to Visibly Clean Sediments
 /UC Underlying Sediments Visibly Clean Below Observed Oil

OIL CATEGORY

Wide: >6m and ≥50% Oil Cover
 Medium: >6m and <50% Oil Cover or ≥3m to ≤6m and ≥10% Oil Cover
 Narrow: <3m and >10% Oil Cover
 Very Light: ≤10% Oil Cover, Regardless of Width. Splashes would be categorized as very light

SUBSTRATE

R Bedrock
 B Boulder (> 256mm)
 C Cobble (64 - 256mm)
 P Pebble (4 - 64mm)
 G Granule (2 - 4mm)
 S Sand (0.06 - 2mm)
 M Mud/Silt (< 0.06mm)
 V Vegetation

ACROSS-SHORE ZONES

SU Supratidal (above UITZ)
 UI Upper 1/3 Intertidal Zone
 MI Middle 1/3 Intertidal Zone
 LI Lower 1/3 Intertidal Zone

OILED DEBRIS TYPE/AMOUNT

L Logs and/or Large Driftwood
 V Vegetation (Kelp, Seaweed) and/or small Driftwood
 T Trash-Fishing Gear, Rope, Plastic, etc.
 D Unusually Large accumulations of debris - oiled or not
 /LG Large Amount
 /MD Moderate Amount
 /SM Small Amount

Jam
5/18/90

RECEIVED
MAY 15 1990

DEPT. OF
ENVIRONMENTAL CONSERVATION

ANADROMOUS FISH STREAM ASSESSMENT

REGION: KODIAK

SEGMENT: K01-01-SI-008

SUBDIVISION: A

STREAM NO: 251-81-10010

Back Bay Creeks
Beer Cove, Shuyak Is.

Recommend cleanup

1) ADRC

2) State Parks

KRM 5-17-90

removal easy & wouldn't take long
work after mid June would minimize
eagle disturbance & remove potential
later contamination to them, fish &
any other organisms

ACE 6891126+5

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/K01-01-SI-008 STREAM NO: 251-81-10010 DATE 5/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
1B Salmon stream mouth - spawning (7/10 to 8/31)
5T-1 All Bald Eagle nests (3/1 to 6/1) (Seabird colony in adjacent
segment SI-009)
8AA Sensitive estuary
9LM Land mammals

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Subject stream exists in subdivision A (1 of 1). Avoid disturbance of intertidal biota.

ARCHAEOLOGICAL CONSTRAINTS:

If treatment is planned, a cultural resource evaluation is required prior to shoreline treatment.

SHPO SIGNATURE: _____ DATE: _____

Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

<u>X</u> No Treatment Recommended	_____ Snare/Absorbent Booms
_____ Treatment Recommended	_____ Oil Snares (pom poms)
_____ Manual Pickup	_____ Absorbents (pads, rolls, etc)
_____ Bioremediation	_____ Spot Washing: _____ Wands
_____ Tarmat Removal	_____ Beach Cleaner
	_____ Other (see comments)

COMMENTS: _____

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____
EXXON _____
NOAA _____
USCG _____

FOSC: _____ DATE: _____

ACE 6891127

KODIAK ECOLOGICAL CONSTRAINTS

✓
✓
1A
1B

Salmon stream mouth - fry outmigration (4/15 to 7/31)

Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)

No disturbance of stream bed or banks unless authorized by ADF&G. No beach flushing into stream drainage. No bioremediation or other chemical application within 100m of stream. Contact ADF&G Habitat Division prior to treatment for permits.

1C

Salmon fry nursery area (4/31 to 7/31)

1D

Kotai Bay Hatchery release

Pink salmon - late May, early June; Chum salmon - June; Sockeye salmon - early July.

1H

Remote release site

1I

Gill net area

1J

Purse seine area

Mainland, West side Kodiak, Shuyak & Moser/Olga Bay - 6/9 to 10/1.

East side Kodiak, East side Afognak - 7/4 to 10/1.

1K

Purse seine hook-off

1L

Set net sites

USFWS setnet uplands permit 5/15 to 9/15.

For Codes 1C through 1L contact ADF&G for specific dates, locations and constraints.

2M

Herring spawning (4/15 to 6/30)

Restrict boat traffic to essential minimum. Avoid damage to unopened intertidal and subtidal algae and seagrass. Contact ADF&G for specific dates and locations.

3N, 3P

Harbor seal and sea lion pupping (5/10 to 6/30)

Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.

3O, 3Q

Harbor seal and sea lion molting (8/15 to 9/15)

Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.

5R

Seabird colony (5/1 to 8/31)

Restrict air traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance. Contact ADF&G and USFWS prior to treatment.

5S

Shorebird/waterfowl concentration (4/1 to 5/15)

Restrict all activity to essential minimum, especially air traffic.

✓
5T

All Bald Eagle nests (3/1 to 6/1)

Active Bald Eagle nests (3/1 to 9/1)

Restrict air traffic to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates.

6U

Recreation: Tent sites (6/1 to 9/15)

6V

Anchorage (6/1 to 9/15)

6W

Forest Service cabins (6/1 to 9/15)

6X

Lodge (6/1 to 9/15)

6Y

Special use destination

7Z

Subsistence area: Salmon harvesting (6/1 to 9/30)

7HH

Finfish harvesting

7II

Deer harvesting (8/1 to 1/7)

7JJ

Invertebrate harvesting

7KK

Bear harvesting (4/1 to 5/15 and 10/25 to 11/30)

For Codes 7Z through 7JJ contact ADF&G and Chenega Corporation for specific dates, locations, and constraints.

ACE 6891128

2/25

FIELD SHORELINE COMMENT SHEET

ASC# (BACK BAY CREEK)

SEGMENT ST / SI-008 SUBDIVISION: 251-B1-10010 DATE 01 MAY 90

USCG

NAME Kerwin L. Dreher SIGNATURE CWO K. L. Dreher☒ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTED

ADF G

ADEC → ~~ADNR~~NAME EDWARD W. WEISS SIGNATURE Edward W. Weiss☐ NO TREATMENT RECOMMENDED
COMMENTS☒ TREATMENT SUGGESTED

RECOMMEND MANUAL PICK-UP OF T. BALLS / RATTIES EAST SIDE OF LAGOON. IMPACT ON WEST SIDE COULD BE PICKED UP AT SAME TIME, BUT THE IMPACT ON THE NORTH SIDE IS SIGNIFICANTLY LESS AND MORE OCCASIONAL.

ADNR

~~LAND MANAGER~~ → ~~ADNR~~NAME Mike Cochran SIGNATURE Mike Cochran☐ NO TREATMENT RECOMMENDED
COMMENTS☒ TREATMENT SUGGESTED

This segment contains state lands proposed for future inclusion into Shuyak Island State Park. And is an area of high recreational potential as well as providing for wildlife habitat. An active Eagle nest was observed in this immediate area. This area provides a commonly used anchorage in this protected bay for recreational and commercial fishing vessels. Manual pick-up of T. balls and scattered ratties on the East side of the bay is recommended.

ACE 6891129

VISION NO. 032190

OG CAL LARSON USCG DREHER, CWE SEGMENT STI/STI 008 4/25
BIO KEN CRITCHLOW LAND REP MIKE GOODWIN STREAM 251-81-10410 (OF)
EXXON DARLYL YOE ADFG ED WEISS TIME 01:45 1002:30
TEAM NO. 14 TIDE LEVEL -0.1 FT DATE 5/1/90
EST. SUBDIVISION LENGTH: 200 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☐ Rock
SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
SURFACE SEDIMENTS: R 75 % B 10 % C 10 % P 30 % G 40 % S 10 % M 0 % V 0
SLOPE: Lang 75 % Hang 25 % Vert 0 % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 540 m NO 0 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR						IMPACTED ZONES			
	W	M	N	U	SW	UW	OW	SL	TL	LR	SU	UM	UN	LU
ASPHALT PAVEMENT														
POOLED														
COVER														
COAT														
STAIN				✓		✓						✓		
MOUSSE				✓		✓						✓		
PATTIES				✓					✓		✓			
TARBALLS				✓		✓						✓		
FILM														
NO OIL													✓	✓

PAVEMENT H F S 0 sq. m by 0 m

PATTIES / TARBALLS 10 BAGS

NEAR SHORE SHEEN? NO BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

Did you collect DEBRIS
☐ YES ☒ NO

TYPE 0

#BAGS 0

Photographs:

Roll No. 0

Frames 0

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (cm)	BELOW		OIL / FILM COLOR						PIT ZONE				A N A	SHEEN (Y/N)	▼	SURFACE - SUBSURFACE SEDIMENTS	
		OP	OR	OL	OF	NO		UO	UC	SW OR	OR RW	OF R	DR TL	LR	SU	U	M	L						
							.																	
							.																	
							.																	
							.																	
							.																	
							.																	
							.																	

COMMENTS NO PITS DUG DUE TO LACK OF OIL PENETRATION

ACE 6891130

REVIEWED 7W DATE 5/3/90

REVISION 6074/98

SKETCH MAP

ACE 6891131

~~FASHION~~
~~DESIGNS~~

DEAD
FALL ACROSS

ANADSSAT 9/25

ADFG MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS ~~SS~~ DS TS AVS SCHA MMS PTA2 REGION: PWS KP, CI ☒ APMETHOD: Aerial ☒ Ground ☒ Boat

3 DATE: 5-2-90

15 HIGH TIDE TIMES: 1

21 TEAM RECORDER: E. WEISS

4 START TIME: 1335

16 HIGH TIDE HTS: 1

22 OBSERVERS: K. LARSON K. CATCHLOW
M. GOODWIN, D. YOLS

5 STOP TIME: 1455

17 LOW TIDE TIMES: 1509

23 AGENCY: ADFG/ADNR

6 SEGMENT #: SI 008

18 LOW TIDE HTS: .5

24 PHOTOS TAKEN: Y ☒

7 STATION #:

19 TIDE HT AT SURVEY:

Roll #: Frame:

8 K-UNIT: K0101

☒ Ebb ☐ Slack ☐ Flood ☐ Slack25 VIDEO TAKEN: Y ☒ TAPES:

9 STAT AREA:

20 USCG QUAD:

Start: End:

10 LAT:

11 LONG:

26 SAMPLES TAKEN Y ☒ Number12 SOURCE: Map ☐ Loran ☐

011

13 LOCATION: BACK BAY BEAR COVE, SHUYAK IS.

Sediment

14 DESCRIPTION:

Biological

Water

EXTENT OF OIL

27 SURFACE COVERAGE

SHORELINE				STREAM			
L	V	N ²	N ¹	L	V	N ²	N ¹

36 CATALOGED ANAD. FISH STREAM? ☒ N

28 SURFACE THICKNESS

--	--	--	--	--	--	--	--

37 CATALOG #: 251-81-10010

29 PENETRATION

38 STREAM NAME: BACK BAY CREEK

30 OVERALL OIL IMPACT: N ☒ VL ☐ L ☐ M ☐ H39 OIL IN STREAM BED? Y ☒31 OIL TYPE: Pooled ☒ Mouse ☒ Tar ☐ Asphalt ☐ Sticky ☐ Stain40 OIL ON STREAM BANKS? ☒ N32 OILED DEBRIS? Y ☒ N41 OIL ON BEACH ADJACENT TO MOUTH? ☒ N
(within 50 meters)

42 OIL WITHIN 1 MILE OF STREAM? Y N

33 SHORELINE TYPE: Headland ☐ Low-lying Rocks ☒ Beach ☐ Cove ☐

Where:

43 ANADROMOUS FISH PRESENT? Y N

34 WAVE EXPOSURE: High ☐ Moderate ☒ Low44 ANADROMOUS FISH OBSERVATION
Species Aerial Ground35 SUBSTRATE TYPE: Bedrock ☐ Boulder 20 ☐ Cobble 30 ☐Gravel 50 ☐ Sand ☐ Mud/silt ☐

COMMENTS: SPORADIC BAND OF TAR/MOUSE PATTERNS/SPLATTERINGS

1 M WIDE AROUND EAST SIDE OF LAGOON TO STREAM
MOUTH. BECOMING MORE SPORADIC ON WEST SIDE
OF LAGOON.

9/25

Seg ID: SI-008 Subdiv: 251-81-10010

Survey Date: 5/1/90

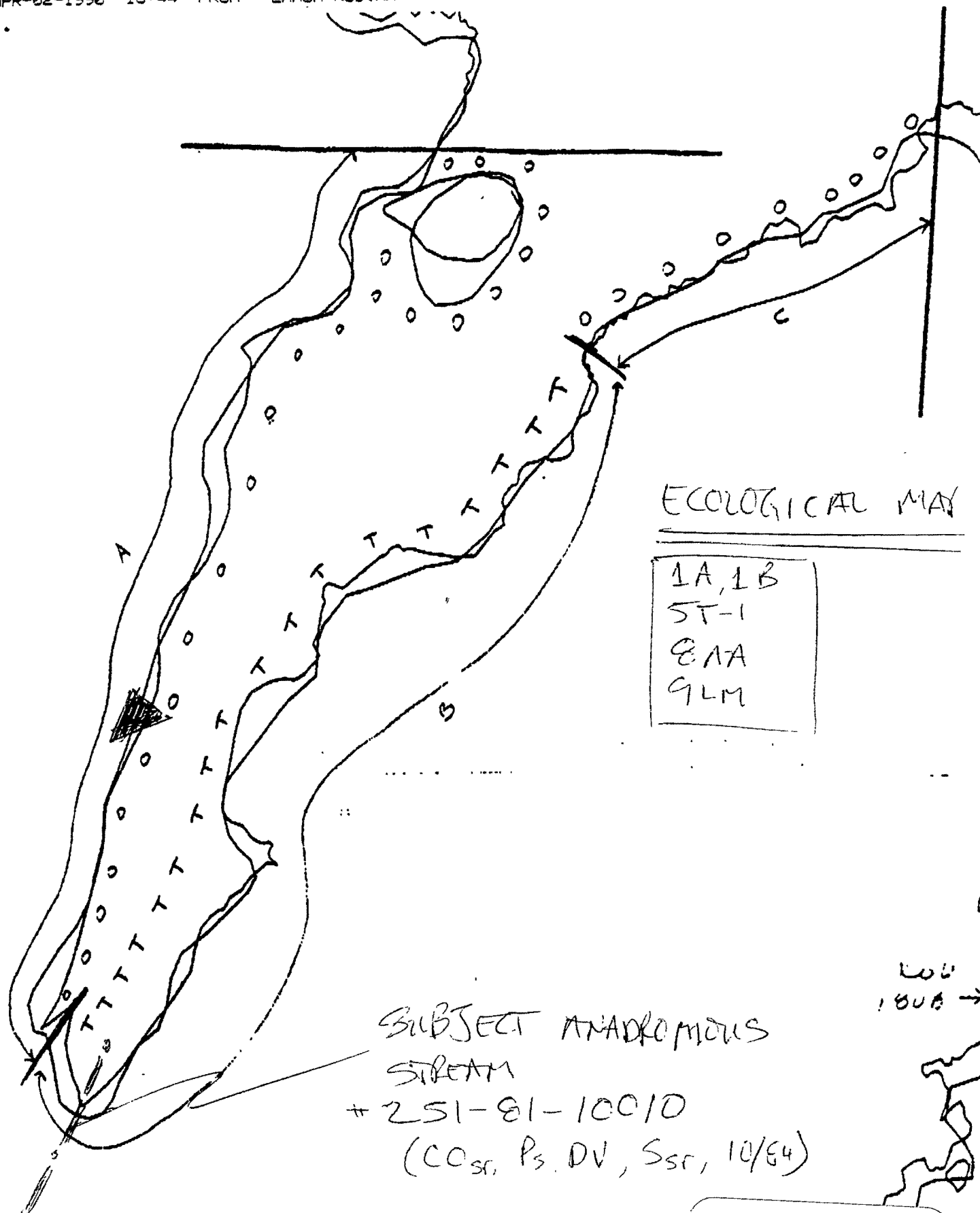
Comments by: Ken Critchlow

The upper edge of the MITZ and the STZ were observed to contain a narrow band of starn, mousse, patties and small tarballs. Oil of any sort was scattered along the upper portion of the stream on both banks.

The intertidal biota in this lagoon-stream site was very rich. The MITZ contained abundant barnacle and littorinid populations. The LITZ was primarily a muddy substrate that seemed to support fairly dense clam beds and eelgrass beds.

The lower west bank of the stream is the site of an active bald eagle nest. Both members of the pair were observed, with the female on the nest. This nest site should not be disturbed. No clear benefit would be gained from cleanup.

KRCritchlow



XXXX Wide

//// Medium

--- Narrow

TTTT Very Light

SI-8

ADEC Segment Length: 3257m

ACE 6891134-S

Map Key: KOD-1800

Name: Penland

Date: 4-1-90

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/K01-01-SI-008 STREAM NO: 251-81-10010 DATE 5/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
1B Salmon stream mouth - spawning (7/10 to 8/31)
5T-1 All Bald Eagle nests (3/1 to 6/1) (Seabird colony in adjacent segment SI-009)
8AA Sensitive estuary
9LM Land mammals

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Subject stream exists in subdivision A (1 of 1). Avoid disturbance of intertidal biota.

ARCHAEOLOGICAL CONSTRAINTS:

If treatment is planned, a cultural resource evaluation is required prior to shoreline treatment.

SHPO SIGNATURE: Rachel Dan Oue DATE: 5/22/90

Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

<u>X</u> No Treatment Recommended	_____ Snare/Absorbent Booms
_____ Treatment Recommended	_____ Oil Snares (pom poms)
_____ Manual Pickup	_____ Absorbents (pads, rolls, etc)
_____ Bioremediation	_____ Spot Washing: _____ Wands
_____ Tarmat Removal	_____ Beach Cleaner
	_____ Other (see comments)

COMMENTS: _____

TAG COMMENTS: _____

TAG APPROVAL DATE: 5/18/90

ADEC Art Weimer Art Weimer

EXXON Andy Tak Andy Tak

NOAA Gary Petrac Gary Petrac

USCG G.A. Reiter G.A. Reiter

FOSC. [Signature]

DATE: MAY 25 1990

ACE 6891135 45

SKETCH MAP

SEGMENT STI SI 008

STREAM ZSI-01-10010

DATE 5/1/90

CHECKLIST

- ☐ N Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Body
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. H/V/L/W/L
- ☐ SSL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ Pit Location(s)
- ☐ Photo Location(s)

LEGEND

1 Δ
Pit - No Subsurface Oil

2 Δ
Pit - Subsurface Oil

CT/C
Continuous Distribution

CT/B
Broken Distribution

CT/P
Patchy Distribution

CT/S
Splashed Distribution

eee
Oiled Vegetation

1 →
Photo location, direction, and number

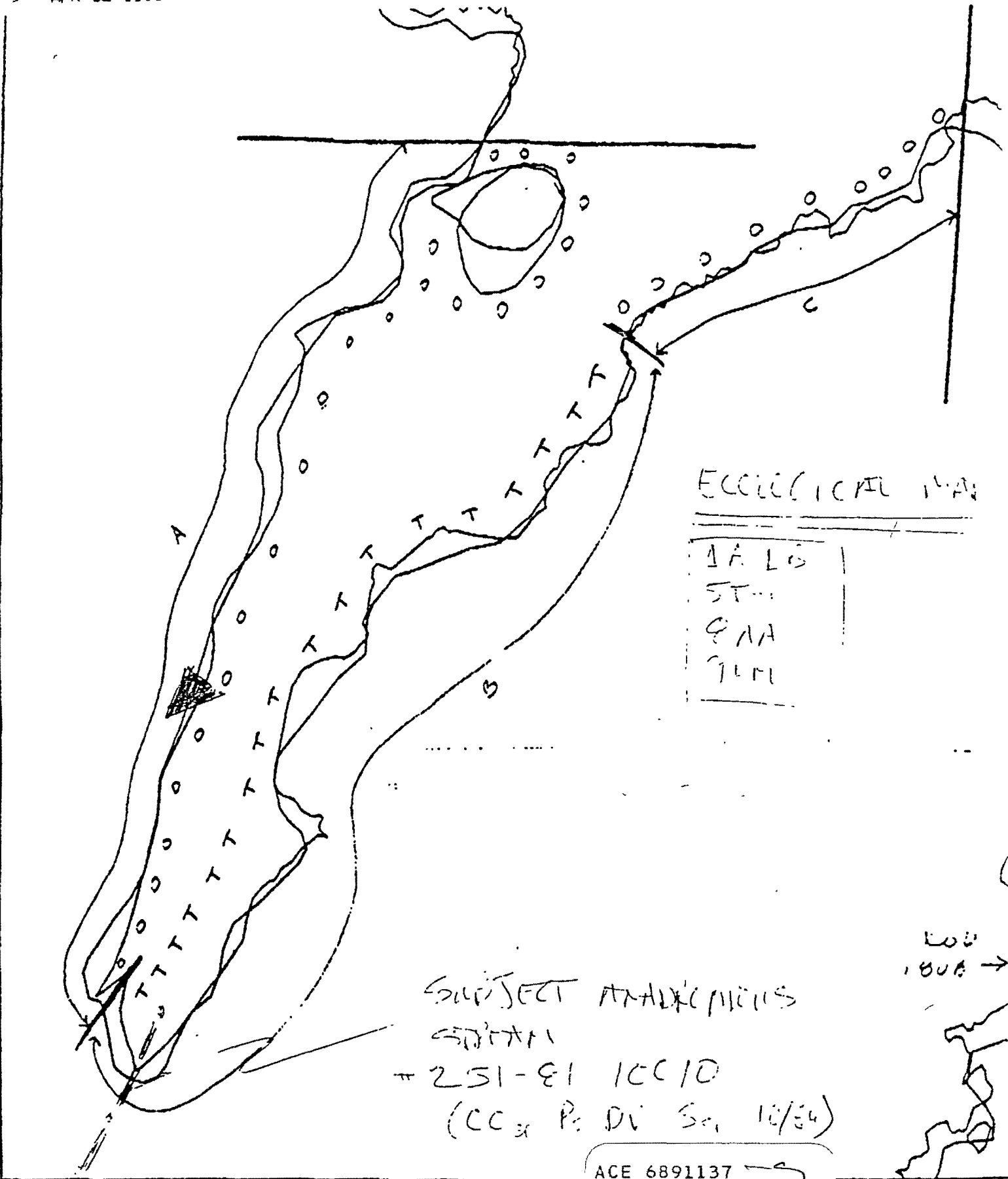
ACE 6891136

FISHING DEBRIS

DEAD

Oil Character Length (m): AP PO CV CT ST 83 MS 83 PT .25 TB 373 FL NO

REVISIONS



ECCENTRIC MAP

1A L6
ST
GAA
TUM

SUBJECT ANALYSIS

STAN

251-E1 ICC10

(CC₂ P₂ DI S₂ 10/84)

ACE 6891137

XXXX Wide

//// Medium

--- Narrow

TTTT Very light

SI-8

ADEC Segment Length: 3257m

Map Key: KOD-1800

Name: Penland

Date: 4-1-90

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/K01-01-SI-008 STREAM NO: 251-81-10010 DATE 5/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
1B Salmon stream mouth - spawning (7/10 to 8/31)
5T-1 All Bald Eagle nests (3/1 to 6/1) (Seabird colony in adjacent segment SI-009)
8AA Sensitive estuary
9LM Land mammals

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Subject stream exists in subdivision A (1 of 1). Avoid disturbance of intertidal biota.

ARCHAEOLOGICAL CONSTRAINTS:

If treatment is planned, a cultural resource evaluation is required prior to shoreline treatment.

SHPO SIGNATURE: Rachel Dan Owe DATE: 5/22/90

Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

<u>X</u> No Treatment Recommended	_____ Snare/Absorbent Booms
_____ Treatment Recommended	_____ Oil Snares (pom poms)
_____ Manual Pickup	_____ Absorbents (pads, rolls, etc)
_____ Bioremediation	_____ Spot Washing: _____ Wands
_____ Tarmat Removal	_____ Beach Cleaner
	_____ Other (see comments)

COMMENTS: _____

TAG COMMENTS: _____

TAG APPROVAL DATE: 5/18/90

ADEC Art Weimer Art Weimer

EXXON ANDY TAY Beas

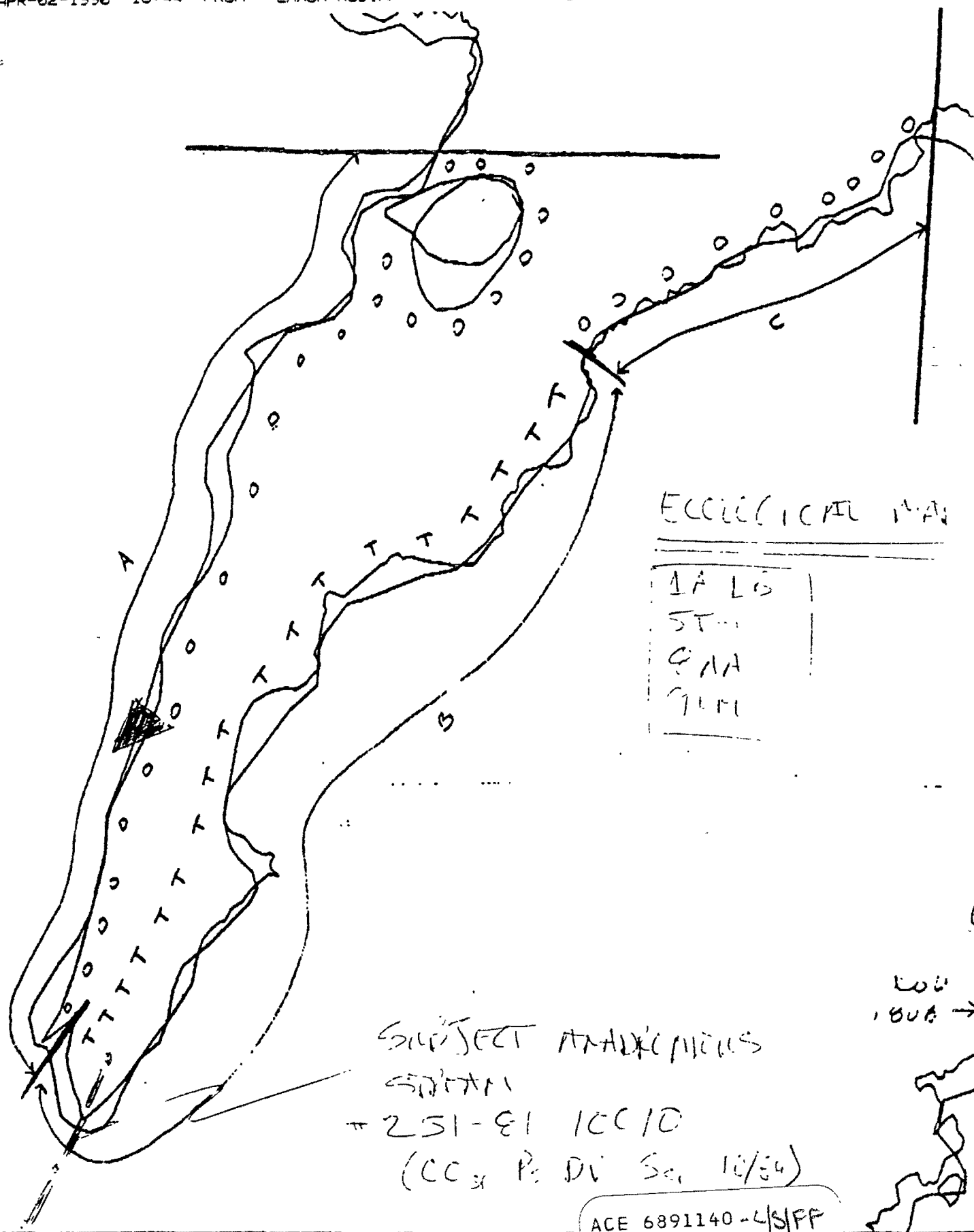
NOAA Gary Petrac Ray Delaney

USCG G.A. REITER G.A. Reiter

FOSC: [Signature] DATE: MAY 25 1990

ACE 6891138 + 5

Dead



XXXX Wide

//// Medium

----- Narrow

TTTT Very Light

SI - 8

ADEC Segment Length: 3257m

Map Key: KOD-180a

Name: Pealand

Date: 4-1-40

1990 PRE ANADSCAT

ADF&G MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS SS TS AVS SCHA MMHS PTA 2 REGION: PWS KP, CI K, AP

METHOD: Aerial Ground Boat

3 DATE: 4-11-90 15 HIGH TIDE TIMES: 1 21 TEAM RECORDER: E. WEISS

4 START TIME: 1405 16 HIGH TIDE HTS: 1 22 OBSERVERS: BARNHART, BEYERS, THOMAS

5 STOP TIME: 1140 17 LOW TIDE TIMES: 1025 23 AGENCY: ADF+G / Exxon

6 SEGMENT #: 81007 91B 18 LOW TIDE HTS: -0.3 24 PHOTOS TAKEN: Y X

7 STATION #: 251-81-10010 19 TIDE HT AT SURVEY: _____ Roll #: _____ Frame: _____

8 K-UNIT: K0101 Ebb Slack Flood Slack 25 VIDEO TAKEN: Y X TAPE#: _____

9 STAT AREA: 251-81 20 USCG QUAD: AFOGNAK C-1 Start: _____ End: _____

10 LAT: 58 35 8 11 LONG: 152 21 26 26 SAMPLES TAKEN? Y X Number _____

12 SOURCE: Map Loran 011 _____

13 LOCATION: BEAR COVE, E. AFOGNAK ISLAND Sediment _____

14 DESCRIPTION: LEGAL DESCRIPTION S 18S 19W 26 Biological _____

Water _____

EXTENT OF OIL

	SHORELINE				STREAM			
	L	W	M ²	%	L	W	M ²	%
27 SURFACE COVERAGE								
28 SURFACE THICKNESS								
29 PENETRATION								

30 OVERALL OIL IMPACT: N VL L M H

31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain

32 OILED DEBRIS? Y N

33 SHORELINE TYPE: Headland Lagoon Low-lying Rocks Beach Cove

34 WAVE EXPOSURE: High Moderate Low Marsh

35 SUBSTRATE TYPE: Bedrock 20 91B Boulder 30 91B Cobble 50 91B Gravel 50 91B Sand 50 91B Mud/silt 50 91B

36 CATALOGED ANAD. FISH STREAM? Y N

37 CATALOG #: 251-81-10010

38 STREAM NAME: BACK BAY CREEK

39 OIL IN STREAM BED? Y N

40 OIL ON STREAM BANKS? Y N

41 OIL ON BEACH ADJACENT TO MOUTH? Y N (within 50 meters)

42 OIL WITHIN 1 MILE OF STREAM? Y N

Where: NOT SURVEYED 91B

43 ANADROMOUS FISH PRESENT? Y N 91B

44 ANADROMOUS FISH OBSERVATION

Species	Aerial	Ground
ACE 6891081		

COMMENTS: PT/P ALONG LAGOON BANKS AND AT STREAM MOUTH. SOME CT/ WERE PATCHES MELTED. 5-6 TEST PITS IN TIDE FLAT & STREAM, NO OIL NO SHEEN. FOUND 1 12" X 18" ASPHALT LIKE PATCH ON WEST BANK OF LAGOON. SEDIMENTS CEMENTED TOGETHER COULD NOT CONFIRM OIL. BROKE UP & DISPERSED. OIL IS IN SOME LOCATIONS AS LAST YEAR'S fall survey. Very difficult to see.

RECOMMEND: YES ANADSCAT / CLEANUP EASY "A" MANUAL PICKUP Jeff Barnhart

48 PHOTOLOG

FRAME(S)	DESCRIPTION

48 OIL DISTRIBUTION DIAGRAM

= Sample taken
= Photo frame # and
shot direction.

ACE 6891082

1990 ANADSSAT

ADF&G MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS ~~SS~~ DS TS AVS SCHA MMHS PTA2 REGION: PWS KP, CI QAPMETHOD: Aerial Ground Boat3 DATE: 5-2-9015 HIGH TIDE TIMES: 121 TEAM RECORDER: E. WEISS4 START TIME: 133516 HIGH TIDE HTS: 122 OBSERVERS: K. LARSON R. CRITCHLOW, M. GOODWIN, D. YOE5 STOP TIME: 145517 LOW TIDE TIMES: 150923 AGENCY: ADF&G/ADNR6 SEGMENT #: SI 00818 LOW TIDE HTS: .524 PHOTOS TAKEN: Y N

7 STATION #: _____

19 TIDE HT AT SURVEY: _____

Roll #: _____ Frame: _____

8 K-UNIT: K0101Ebb Slack Flood Slack25 VIDEO TAKEN: Y N TAPE#: _____9 STAT AREA: 251-81

20 USCG QUAD: _____

Start: _____ End: _____

10 LAT: _____

11 LONG: _____

26 SAMPLES TAKEN? Y N Number

12 SOURCE: Map Loran

Oil _____

13 LOCATION: BACK BAY BEAR COVE, SITUYAK IS.

Sediment _____

14 DESCRIPTION: _____

Biological _____

Water _____

EXTENT OF OIL

	SHORELINE				STREAM			
	L	W	M ²	%	L	W	M ²	%
27 SURFACE COVERAGE								
28 SURFACE THICKNESS								
29 PENETRATION								

36 CATALOGED ANAD. FISH SREAM? N37 CATALOG #: 251-81-1001038 STREAM NAME: BACK BAY CREEK39 OIL IN STREAM BED? Y N40 OIL ON STREAM BANKS? N30 OVERALL OIL IMPACT: N VL L M H41 OIL ON BEACH ADJACENT TO MOUTH? N
(within 50 meters)31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain42 OIL WITHIN 1 MILE OF STREAM? Y N32 OILED DEBRIS? Y N

Where: _____

33 SHORELINE TYPE: Headland Lagoon Low-lying Rocks Marsh Beach Cove N43 ANADROMOUS FISH PRESENT? Y N34 WAVE EXPOSURE: High Moderate Low44 ANADROMOUS FISH OBSERVATION
Species Aerial Ground35 SUBSTRATE TYPE: Bedrock _____ Boulder 20 Cobble 30
Gravel 50 Sand _____ Mud/silt _____

Species	Aerial	Ground

COMMENTS: SPORADIC BAND OF TAR/MOUSE PATTIES/SPLATTERINGS1M WIDE AROUND EAST SIDE OF LAGOON TO STREAM MOUTH. BECOMING MORE SPORADIC ON WEST SIDE OF LAGOON.

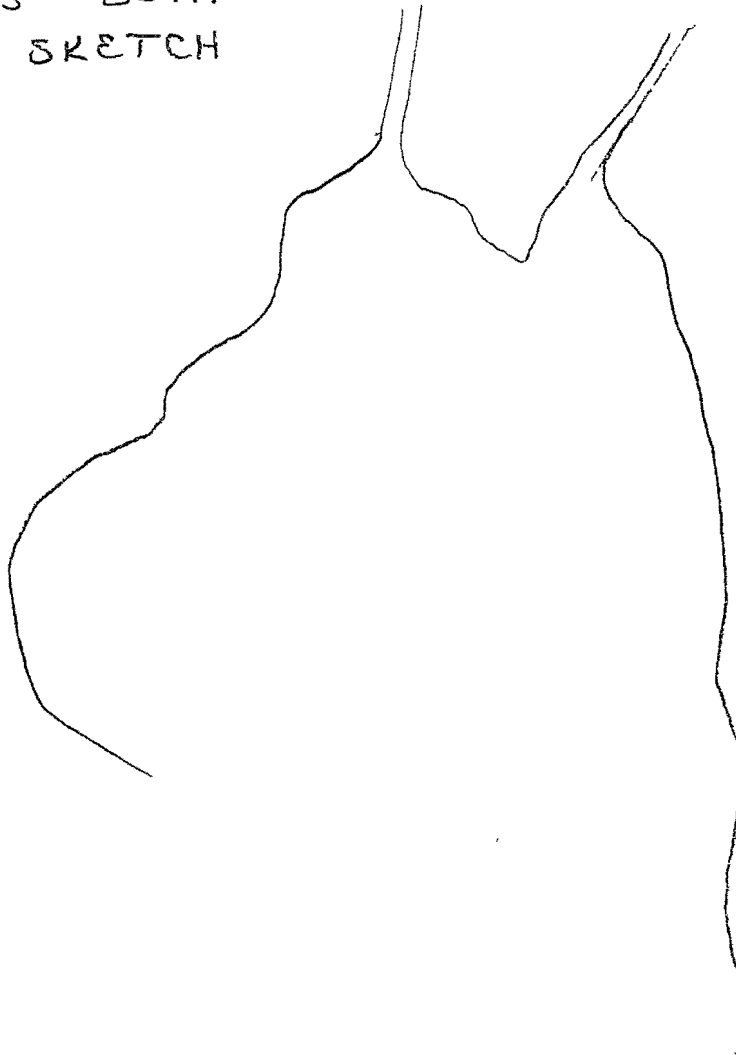
ACE 6891079+FH/HF

RECOMMEND: MANUAL PICKUP

FRAME(S)	DESCRIPTION

46 OIL DISTRIBUTION DIAGRAM

SEE OG'S SSAT
REPORT SKETCH



= Sample taken
= Photo frame # and
shot direction.

ACE 6891080

AFS 251-81-10010 (1989)
BEAR COVE, Back Bay Creek (data)
SITE S2-1

251-81-812

ACE 1369578



~80% 15m x 465m +
Penet 1.5"

5%
LIGHT
COVER 15m x 380m +
/



89 Stream Survey

ASC NUMBER: LOCATION: STREAM NAME: KODIAK K-UNIT: USGS QUADRANGLE: SHORELINE TYPE: Beach/Lagoon

SEGMENT NUMBER: LOCAL STREAM #:

YR CATALOGED: LATITUDE: LONGITUDE: LEGAL: WAVE EXPOSURE: Low

ASC NUMBER: 251-81-10010
 SURVEY TYPE: SS
 METHOD: F
 DATE: 8/31/89
 START TIME: 1015
 STOP TIME: N/A

In Catalog

TEAM RECORDER: JEFFREY P. BARNHART
 OBSERVERS: Randy Tolvi

AGENCY(IES): ADF+G

PHOTOS TAKEN? Y
 Roll #: 89-RGT-001K Frames: 1-4
 VIDEO TAKEN? Y Tape Number: HS-008
 Counter Start: 0129

89 JPB/DBK

SAMPLES TAKEN? Y
 SAMPLE I.D. NUMBERS: 1. S2-1-1
4.

2. S2-1-2
5.

3.
6.

OILING DATA

	LENGTH	WIDTH	M2	%	THICK	FEN	OIL TYPE
SITE 1	<u>465m</u>	<u>15m</u>	<u>6975</u>	<u>90</u>	<u>1.25cm</u>	<u>3.8cm</u>	<u>MS</u>
SITE 2	<u>60m</u>	<u>30m</u>	<u>1800</u>	<u>10</u>	<u>1.25cm</u>	<u>surface</u>	<u>MS</u>
SITE 3	<u>180m</u>	<u>3m</u>	<u>540</u>	<u>410</u>	<u>1.25cm</u>	<u>surface</u>	<u>MS</u>
SITE 4	<u>200m</u>	<u>3m</u>	<u>600</u>	<u>410</u>	<u>1.25cm</u>	<u>surface</u>	<u>MS</u>
SITE 5	<u>25m</u>	<u>3m</u>	<u>75</u>	<u>5</u>	<u>1.25cm</u>	<u>surface</u>	<u>MS</u>

OVERALL OIL IMPACT: H

OIL IN STREAM CHANNEL? Y
 SUBSTRATE

Bedrock X Granule
 Boulder X Sand X
 Cobble X Silt
 Pebble Veget.

OIL ON BEACH WITHIN 50M OF STREAM MOUTH? Y

SPECIES	RS	SS	PS		
COUNT	<u>90+</u> <u>partial st.</u>	<u>N/A</u>	<u>N/A</u>		

COMMENTS: Red salmon (RS) count was a ^{partial} aerial survey, only one side of the lake was counted. Coho salmon (SS) were observed jumping at stream mouth. Site #1: Band of oil 15m wide located in the Bedrock/boulder substrate at the supratidal zone continuing down the beach face into the gravel/sand substrate at the low intertidal zone.

Site S2-1, Bear Cove, Shuyak Island



89 Stream Survey

ASC NUMBER:	SEGMENT NUMBER:	YR CATALOGED:
LOCATION:		
STREAM NAME:		LATITUDE:
KODIAK K-UNIT:	LOCAL STREAM #:	LONGITUDE:
USGS QUADRANGLE:		LEGAL:
SHORELINE TYPE: Beach/Lagoon		WAVE EXPOSURE: Low

ASC NUMBER: 251-81-10010
 SURVEY TYPE: SS
 METHOD: F
 DATE: 8/31/89
 START TIME: 1015
 STOP TIME: N/A

TEAM RECORDER: JEFFREY P. BARNHART
 OBSERVERS: Randy Talvi

AGENCY(IES): ADF+G

PHOTOS TAKEN? Y
 Roll #: 89-RGT-001K Frames: 1-4
 VIDEO TAKEN? Y Tape Number: HS-008
 Counter Start: 0129

SAMPLES TAKEN? Y
 SAMPLE I.D. NUMBERS: 1. S2-1-1
 4.

2. S2-1-2
 3.
 5.
 6.

OILING DATA

	LENGTH	WIDTH	M2	%	THICK	FEN	OIL TYPE
SITE 1	465m	15m	6975	90	1.25cm	3.8cm	MS
SITE 2	60m	30m	1800	10	1.25cm	surface	MS
SITE 3	180m	3m	540	110	1.25cm	surface	MS
SITE 4	200m	3m	600	110	1.25cm	surface	MS
SITE 5	25m	3m	75	5	1.25cm	surface	MS

OVERALL OIL IMPACT: H

OIL IN STREAM CHANNEL? Y

OIL ON BEACH WITHIN 50M OF STREAM MOUTH? Y

SUBSTRATE	
Bedrock X	Granule
Boulder X	Sand X
Cobble X	Silt
Pebble	Veget.

SPECIES	RS	SS	PS		
COUNT	90+ partial	N/A	N/A		

COMMENTS: Red salmon (RS) count was a ^{partial} aerial survey, only one side of the lake was counted. Coho salmon (SS) were observed jumping at stream mouth. Site #1: Band of oil 15m wide located in the Bedrock/boulder substrate at the supratidal zone continuing down the beach face into the gravel/sand substrate at the low intertidal zone.

Site S2-1, Bear Cove, Shuyak Island

16

8/31/89 Depart Airport 9:15 AM. Helicopter 96T
 PHZ helicopter company. TwinStar. Roger Claycomb pilot
 Arrive back in Kodiak 4:30 pm

Shuyak Island Land 10:15 AM. Stream no 251-81-10010
 walked up stream 25 yards above high tide. Mousse
 patches ranging in size of a dime to 9' dia.
 weathered most mixed with gravel. weathered
 steep at high tide line. Observed salmon
 jumping in large area. Pink & coho salmon present
 very near stream. Latitude $58^{\circ} 35' 30''$ N
 $153^{\circ} 21' 15''$ W

Boat Cove,
 Shuyak Is.

Ureda 0129 11:30 AM
 to 5 Stream

Draw at 11 AM

12:00

17

Green
 side

Bank of oil Aug. 15

(measured from high tide mark)

Stream mouth (High Tide)

To end of survey

a distance of

465 yards.

Bedrock/boulder of

high intertidal

grading into mixed

gravel/sand

at low water level

along this

stream

End of survey

gravel bar

oil spill

oil coverage in

oil spill

oil spill

oil spill

oil spill

oil spill

oil spill

oil spill

oil spill

oil spill

oil spill

oil spill

oil spill

oil spill

oil spill

oil spill

oil spill

oil spill

Stream

Start on Ureda end 435

Site 1

Site 2

Site 3

Site 4

Site 5

Site 6

Site 7

Site 8

Site 9

Site 10

Site 11

Site 12

Site 13

Site 14

Site 15

Site 16

Site 17

Site 18

Site 19

Site 20

Site 21

Site 22

Site 23

Site 24

Site 25

Site 26

Site 27

Site 28

Site 29

Site 30

Site 31

Site 32

Site 33

Site 34

Site 35

Site 36

Site 37

Site 38

Site 39

Site 40

Site 41

Site 42

Site 43

Site 44

Site 45

Site 46

Site 47

Site 48

Site 49

Site 50

Site 51

Site 52

Site 53

Site 54

Site 55

Site 56

Site 57

Site 58

Site 59

Site 60

Site 61

Site 62

Site 63

Site 64

Site 65

Site 66

Site 67

Site 68

Site 69

Site 70

Site 71

Site 72

Site 73

Site 74

Site 75

Site 76

Site 77

Site 78

Site 79

Site 80

Site 81

Site 82

Site 83

Site 84

Site 85

Site 86

Site 87

Site 88

Site 89

Site 90

Site 91

Site 92

Still photos Roll # 195A Frame 1-4

The lake from which this

stream originates has

sockeye salmon spawning on

3:25 pm

The shoals viewed from

the helicopter they were in

The spawning color (Red).

skipper of eel fish

(Brian Young) observed P.S.

spawning in stream from

100 yds above high tide

up stream (comments from

personal communications)

Local Name: Bear Cove, Shuyak Island

FISH HABITAT ASSESSMENT FORM

REGION: PWS

KP, CI

☒ AP

OBSERVER(S) JEFF BARNHART
Randy Talvi

SITE NO. 52-1

AERIAL PHOTO NO. K1-7

CAT NO 251-81-10010

STREAM NAME —

N LAT 58° 35' 30" W LONG 152° 21' 15"

DATE 8/31/89

TIME 10:15 Am

TIDE

☒ Low slack

Flood

High slack

Ebb

CATALOGED ANADROMOUS STREAM? ☒ Y ☐ N

ANAD. FISH FOUND? ☒ Y ☐ N

OIL FOUND IN STREAM? SEE NOTES p. 3
☒ Y ☐ N

OIL FOUND NEAR STREAM (1 MI.)? ☒ Y ☐ N

OIL SAMPLES TAKEN? ☒ Y ☐ N

ID NOS. 52-1-1, 52-1-2

35 mm PICTURES TAKEN? ☒ Y ☐ N

Converted To 89-RGF-001-K

ROLL NO(S). 195A 996

EXPOSURE NO.

DESCRIPTION

- | | |
|----------|--|
| <u>1</u> | <u>Eastern shore of Bay, 100 yds from stream mouth. Mousse on rubble</u> |
| <u>2</u> | <u>Eastern shore of Bay, 100 yds from stream mouth, Mousse in cobble</u> |
| <u>3</u> | <u>Eastern shore of Bay, 95 yards from stream mouth, Mousse in gravel.</u> |
| <u>4</u> | <u>Mousse on Rock at creek mouth, 6 yds seaward from extreme</u> |
| | <u>Tide line.</u> |
| | |
| | |

VIDEO FOOTAGE TAKEN? ☒ Y ☐ N

CASSETTE NO(S). H5008

DESCRIPTION: Shows stream mouth, lagoon area, bay, oil on beach.

Taking oil sample. Start @ 0129 end 0135

* Lat/Long was taken from pilot's Aviation chart.

ANADROMOUS FISH OBSERVATIONS

	PINK	CHUM	RED	KING	COHO	DOLLY
Aerial			partial count 90			
Ground			—		yes	

COMMENTS: ^{above lake, 975} Aerial count from approx 600 feet. Estimated count on one side of lake only. Other side of lake not visible from helicopter. Coho jumping in Bay near (within 100 yds) of stream mouth. Spoke to Brian young of FV Cecilia. He walked stream and observed pink salmon present in the stream.

OIL OBSERVATIONS

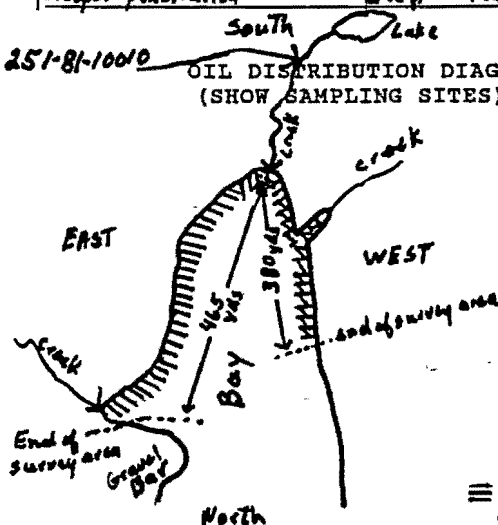
EXTENT OF OIL:

	WITHIN STREAM	OUTSIDE STREAM
SURFACE COVERAGE	90%	see notes
SURFACE THICKNESS	light coating to 1/4"	see notes
PENETRATION	surface to 1 1/2 inches suspect deeper penetration	surface to 1 1/2" suspect deeper penetration

PREDOMINANT
SUBSTRATE TYPE:

0. Bedrock
1. Boulder
2. Cobble
3. Gravel
4. Sand
5. Mud
6. Other

AFS 251-81-10010
OIL DISTRIBUTION DIAGRAM
(SHOW SAMPLING SITES)



≡ indicates Moderate to heavy oiling
≡ indicates Light oiling

COMMENTS: EAST side of Bay from creek to end of survey. Moderate to Heavy oiling. Looks like oiling continues down the bay past the point where we ended the survey. WEST side (area surveyed) Light oiling. See notebook for more details

~~XXXX~~ A4-1

"*Rite in the Rain*"
ALL-WEATHER WRITING PAPER ®



ALL-WEATHER

LEVEL

Notebook No. 311-M

Alaska Dept of Fish + Game Lab.
Kodiak, AK 486-5033

Kodiak Archipelago
Anadromous Fish
Habitat Assessment

1
Anadromous Fish Habitat
Assessment
Exxon Valdez Oil Spill

Date: 09/02/89

Site Number: A4-1

Location of sampling point:

Latitude - $58^{\circ} 14' 40''$ N

Longitude - $152^{\circ} 19' 20''$ W

Comments - Lat/Long Taken from
pilots aviation chart.

Type of Sample: Oil or Sediment
(circle one)

How many samples taken?

2 samples Taken

2

Volume of samples taken:
approx 250 ml each

Date and Time of collection:
9:30-10:30 AM 09/02/89

List of sample identification
numbers:

S2-1-1

S2-1-2

3

Description of sampling point
and sampling methodology:

Sampling points shown on oil
distribution diagram on The Fish
Habitat Assessment Form.

Methodology: Sampling protocol was
followed per Draft Plan, Anonymous
Fish Habitat Assessment Plan, page 9

4

References (Maps, photographs, Video footage):

Aerial photo K1-9

Kodiak Area Salmon District map

35mm photos Roll # 198A Frames 12, 13, 14

Video cassette no. H5008 - Footage 0971-
1330.

✓ Roll # Converted To

89-RGT-001-K

JPB

Field Observations:

observations are detailed in the oil
distribution diagram on the Fish
Habitat Assessment Form.

Jeff Barnhart
7/2/89

5

FISH HABITAT ASSESSMENT FORM

REGION: PWS KP, CI KAP OBSERVER(S) JEFF BARNHART
Randy TalviSITE NO. 52-1 AERIAL PHOTO NO. K1-7 CAT NO. 251-81-10010STREAM NAME — *LAT 58° 35' 30" *LONG 152° 21' 15"DATE 8/31/89 TIME 10:15 Am TIDE Low slack Flood High slack EbbCATALOGED ANADROMOUS STREAM? (Y) N ANAD. FISH FOUND? (Y) NOIL FOUND IN STREAM? SEE NOTES pgs Y N OIL FOUND NEAR STREAM (1 MI.)? (Y) NOIL SAMPLES TAKEN? (Y) N ID NOS. 52-1-1, 52-1-235 mm PICTURES TAKEN? (Y) N ROLL NO(S). 19SA

EXPOSURE NO. DESCRIPTION

- 1 Eastern shore of Bay, 100 yds from stream mouth. Mousse in cobbles
- 2 Eastern shore of Bay, 100 yds from stream mouth, Mousse in cobbles
- 3 Eastern shore of Bay, 95 yards from stream mouth, Mousse in gravel.
- 4 Mousse on Rock at creek mouth, 6 yds seaward from extreme Tide line.

VIDEO FOOTAGE TAKEN? (Y) N CASSETTE NO(S). H5008DESCRIPTION: Shows stream mouth, adjacent area, bay. Oil on beach.Taking oil sample. Start @ 0129 and 0135

ANADROMOUS FISH OBSERVATIONS

	PINK	CHUM	RED	KING	COHO	DOLLY
Aerial			partial count 90			
Ground			—		yes	

COMMENTS: above lake, 918
And count from approx 600 feet. Estimated count
on one side of lake only. Other side of lake not visible from
helicopter. Coho jumping in Bay near (within 100 yds) of stream mouth.
Spoke to Brian Young of K/V Cecilia. He walked stream and observed pink salmon
present in the stream.

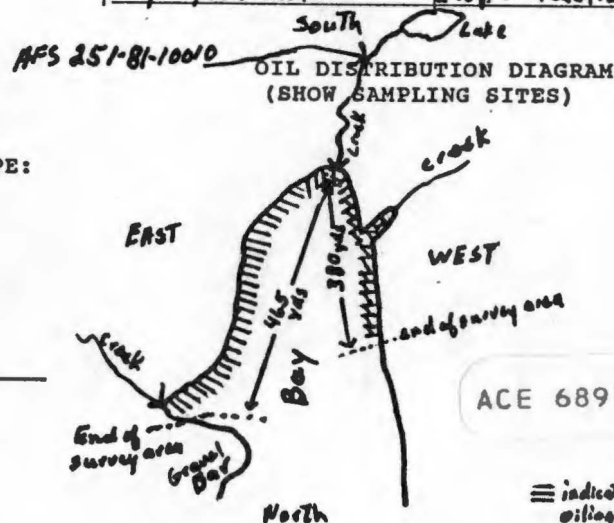
OIL OBSERVATIONS

EXTENT OF OIL:

	WITHIN STREAM	OUTSIDE STREAM
SURFACE COVERAGE	90%	see notes
SURFACE THICKNESS	light coating to 1/8"	see notes
PENETRATION	surface to 1 1/2 inches suspect deeper penetration	surface to 1 1/2" suspect deeper penetration

PREDOMINANT SUBSTRATE TYPE:

0. Bedrock
1. Boulder
3. Cobble
4. Gravel
5. Sand
6. Mud
7. Other



ACE 6891148

≡ indicates Moderate to heavy oiling

≡ indicates Light oiling

COMMENTS: EAST side of Bay from creek to end of survey. Moderate to Heavy oiling.
Looks like oiling continues down the bay past the point where we ended the survey.
west side (area surveyed) light oiling. See notebook for more details

Volume of Samples Taken

Approx. 250 ml each

Date and time of collection

08/31/89 10:40 AM

List of sample identification numbers:

S2-1-1

S2-1-2

ACE 6891149

Description of sampling point and sampling methodology

Each of the 2 samples consists of 7 subsamples, All Taken within 100 yards of Stream mouth, on the East shore of the lagoon. Both samples are identical. For example: from a single mousse pottle a small portion would be put in each jar. That would be considered one sub sample. The procedure would be duplicated 6 more times on 6 other mousse pottles/oiled gravel.

The samples were placed into the jars using a sterile tongue blade. Disposable rubber glove was worn.

ACE 6891150

References (Maps, photographs, video)

Aerial photo K1-7

Kodiak Area Salmon District Map

Field Observations

East shore. Band of oil Avg. 15 yds wide (measured from high tide mark toward saltwater) and 465 yards long (measured from High Tide mark at Stream mouth toward mouth of Bay). The survey stopped at 465 yards. The oil band appeared to continue.

Surface oiling is moderate/Heavy.

The oil coverage in the upper 8-10 yards of the 15 yard wide band is 80-95%. Penetration 0-1 1/2". Subsurface gravel below 1 1/2" smells of oil.

The oil is a mixture of weathered and fresher looking mousse, some of which is oozing. Around and between rocks. In addition to the mousse the rocks and gravel are coated with a film of oil which can be detected by sight, smell & feel.

Substrate: Bedrock/boulder at high intertidal grading into mixed gravel/sand at low intertidal

West shore. Band of mousse pottles Avg 15 yds wide (measured from high tide mark toward saltwater) and 380 yards long (measured from high tide mark at Stream mouth toward mouth of Bay). The survey ended at 380 yds. The oil may have continued. Coverage in this band is light. Mousse appeared fresh. Size of pottles was from 15" to 4".

Jeff Burnham

8/31/89

ACE 6891152

Bear Cove Con't

ACE 6891151

16

8/31/89 Depart Airport 9:15 AM. Helicopter 96T
PHZ helicopter company. TwinStar. Roger Claycomb pilot
Arrive back in Kodiak 4:30 pm

Shuyak Island Land 10:15 AM. Stream no 251-81-10010

walked up stream 25 yards above high tide. Mousse
patties ranging in size of a dime to 9" dia.
weathered most mixed with gravel weathered.

Steps at high tide line. Observed salmon
jumping in lagoon. Pink & chum salmon present in
Bay near stream. Latitude $58^{\circ} 35' 30''$ N
 $158^{\circ} 21' 15''$ W

Used 0129 11.30 AM
To 5 Stream

Drawn at 11 AM

15/82

17

Ocean
Sediment

Pond of oil Aug. 15
(measured from high tide)

Stream mouth (High Tide)

To end of survey
a distance of
465 yards.

Bedrock/boulder of
high intertidal
grading into mixed
gravel/sand
at low intertidal
Along this
entire side
of the

Start of Quiedo end 435

Stream

mousse covering intertidal area
30 yards wide L/m coverage,
4 mousse. This area was dry (Tide out)
when we surveyed it.

houses mixed with gravel small
mousse patties 4p2 3" dia
coverage L. Mousse mixed with
gravel at 15 yds of stream

Tide line. ~~off~~
gravel/sand beach.

The lake from which this
stream originates has

sockeye salmon spawning on
3:25 pm

The shoals viewed from

The helicopter they were in

The spawning color (Red).

Skinner of Cecilia

(Brian Young) observed P.S.

spawning in stream from

100 yds above high tide

upstream (comments from

person and communications)

surface
oiling m/Heavy. The upper
8-10 yards is 80-100%

weathered mousse/some
not so weathered (bit sticky)

oiling around rocks and
penetrating to a depth of $1\frac{1}{4}''$.

Still photos Roll # 195A Frame 1-4

ACE 6891153

ACE 6891154

present

3. If oil is present, estimation to the length and width of contaminated area, along with depth (saturation) should be made. Diagrams, pictures, video's, and measurements are necessary.

Two identical oil samples will be taken. Each ~~is~~ will have 7 sub samples of same material. This will be used for identification purposes.

We completed two stream surveys on Afognak Island. One in Foul bay and one in Paramanot bay. Neither stream had visible signs of contamination, so six sediment samples were taken, along with video pictures. Jeff Barnhart of Kodiak is working as our crew leader. 8/30/89 R.T.

ACE 6891155

8/31/89

Shuyak

12:06pm

Shugrak Island

AFS 251-21-10010

Visible signs of oil are present. Mousse patties, balls, and subsurface saturation can be detected visually, by feel, and by smell. We walked both sides of bay, noticed oil contamination ranging from High tide line too 15 yds into intertidal zone. Oil contamination was also present to High tide line of stream itself.

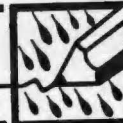
Two identical samples were taken of 7 subsamples of mousse material. Video's and 35mm pictures were also taken. Jeff drew maps and recorded length, width, depth in his logbook.

Other two streams surveyed had no apparent oil contamination, and sediment samples were taken along with a couple 35mm pictures 8/31/89 R.T.

ACE 6891156

52-1

"Rite in the Rain"
ALL-WEATHER WRITING PAPER ©



ALL-WEATHER
LEVEL

Notebook No. 311-M

"Rite in the Rain" - A unique All-Weather Writing Paper created to shed water and enhance the written image. It is widely used throughout the world for recording critical field data in all kinds of weather.

Available in a variety of standard and custom printed case-bound field books, loose leaf, spiral and stapled notebooks, multi-copy sets and computer papers.

"Rite in the Rain" All-Weather Writing Papers are also available in a wide selection of rolls and sheets for printing and photocopying.

a product of

J. L. DARLING CORPORATION
TACOMA, WA 98421-3696 USA

Alaska Dept of Fish + Game Habitat
Kodiak, Alaska 486-5033

Kodiak Archipelago Anadromous
Fish Habitat Assessment

ACE 6891157

Anadromous Fish Habitat Assessment

Exxon Valdez Oil Spill

Date: 08/31/89

Site number: S2-1 AFS251-81-10010

Location of sampling point:

Latitude - 58° 35' 30" N

Longitude - 152° 21' 15" W

Other Comments - Lat/Long Taken from
pilot's Aulation chart. Local name of this
area is bear cove.

Type of sample: Oil (circle) Sediment (one)

How many samples taken?

2 samples Taken

ACE 6891158-L/FF