

251-81-812

Andrean Bay Creek



ACE 1852182

SEGMENT INSPECTION RECORD

ORIGIN:

ADEC # K1-1

Shoreline Segment: SI-13

Shoreline Treatment Process(es) Completed for this Segment

Yards Signed Off

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

1,203

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
☒ 17%	Very Light

100%

Subsurface Oil

☐ Yes ☒ No

Comment Below

Reassessment

☐ Yes - Necessary

☒ No - Not necessary unless re-oiled

ADEC Rep

Comments

SEGMENT CONSISTS OF 4 BEACHES. OF WHICH (OVER)

Signature Robert J. Tworkowski

Date 9.6.89 Time 1800

Printed Name ROBERT J. TWORKOWSKI

FOSC Rep Demobilization approved/disapproved

Comments PARTICIPANTS: R. SCRUGGS (USCG), R. TWORKOWSKI (ADEC), B. KUBY (DNR)

Signature Robert W. Scruggs

Date 9/7/89 Time 0700

Printed Name ROBERT W. SCRUGGS

Copy to: Exxon ADEC FOSC ISCC Return All Signed Originals to Exxon

ACE 1852238 +15

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 7/15/89

SHORELINE SEGMENT K1-1 SI-13

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

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 6/27/89

Recommended Cleanup Activity(ies):

- Manually remove oiled seaweed and small driftwood.
- Warm water wash with wands the pebble berm of beaches 3 and 4 or relocate sediments to active surf zone.
- Use other approved methods as appropriate.

Priorities Considerations:

Class 2B

Ecological Constraints (from site survey):

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

Archeological Constraints (from site survey):

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 1852239

SHORELINE OIL EVALUATION FORM - 1 IAK

Date: 6/27/89 Time: 1730-1800Observer: C. DillonSurveyed From: Foot/Boat/Helio/PlaneWeather: Sun/Cloud/Rain/Snow/FogLOCATION SUNYAK ISLAND - EAST SIDESEGMENT I.D. 1-1-SI-13 (Beach 4)LENGTH OF SHORELINE SEGMENT: 100 mACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE:

Shoreline Type: SPI/BEA/COV/HLD/STRTSlope: LANG/HANG/VERWave Exposure: High/Med/LowSediment: B 5% / C 50% / P 30% / G ___% / S ___% / M ___% / R 5%Drift Debris on Beach: Yes/NoSupra/Upper/Mid/Lower Type logs/algae

OIL

Degree of Oiling: Heavy/Moderate/Light/No Oil/Unobserved/Very LightTotal Area of Beach Impact: SU / SP / H / M / L

OIL DISTRIBUTION

Continuous: Y/N Segment % 90 No. Bands 1 Width 5-6mGranic: Y/N Segment % ___ Min/Max Dia ___ Impact Width ___Est. Oil Thickness where > 1cm: 0 cm. SU / SP / UP / MID / LODepth below top seds 2-4cm
Est. Oil Penetration: 20 cm SU / SP / UP / MID / LOLayers? 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 10% H/M/L/VL Coating 90%

OIL WEATHERING (OW)

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

Pancake Mousse ___% SU/SP/VP/MID/LO Asphalt Mousse 100% SU/SP/VP/MID/LO

Tar Formation ___%

Comments:

Mid-Supra ITZ surface sediments are very lightly splattered with a dried mousse residue of droplet size. The sediments underneath are penetrated up to 6-8 cm under 2-4 cm top sediments. The bubble storm berm is 2-3 m wide by 75 m long and penetrated up to 20 cm deep.

SHORE OIL EVALUATION FORM - DIAK

Date: 6/27/89 Time: 1715-1730Observer: C. DillerSurveyed From: Foot/Boat/Helio/PlaneWeather: Sun/Cloud/Rain/Snow/FogLOCATION SHUYAK ISLAND - EAST SIDESEGMENT I.D. K1-1-SI-13 (Beach 3)LENGTH OF SHORELINE SEGMENT: 100 mACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE:

Shoreline Type: SPI/BEA/COV/HLD/STRTSlope: LANG/HANG/VERWave Exposure: High/Med/LowSediment: B 25% / C 30% / P 40% / G % / S % / M % / R 5%Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type Sawed/Logs

OIL

Degree of Oiling: Heavy/Moderate/Light/No Oil/Unobserved/Very LightTotal Area of Beach Impact: SU / SP / H / M / L

OIL DISTRIBUTION

Continuous: Y/N Segment % 15 No. Bands 1 Width 3-4mSporadic: Y/N Segment % Min/Max Dia Impact Width Est. Oil Thickness where > 1cm: 0 cm. SU / SP / UP / MID / LO
Depth below top sedsEst. Oil Penetration: 20 cm SU / SP / UP / MID / LOLayers? 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 10 % H/M/L/VL Coated 80 %

OIL WEATHERING (OW)

Fresh Oil % SU/SP/VP/MID/LO Choc Mousse % SU/SP/VP/MID/LOPancake Mousse % SU/SP/VP/MID/LO Asphalt Mousse 100 % SU/SP/VP/MID/LOTar Formation %

Comments:

Pebble storm berm is coated by dried mousse
up to 20 cm penetration. Oiled section of berm is
3-4 m wide by 15 m long.
Small amount of mousse spattered logs and seaweed
on SITZ

SHORELINE OIL EVALUATION FORM - DIAK

Date: 6/27/89 Time: 1600-1800Observer: C. DillonSurveyed From: Foot/Boat/Helio/PlaneWeather: Sun/Cloud/Rain/Snow/FogLOCATION SHUYAK ISLAND - EAST SIDESEGMENT I.D. K1-1-SI-13LENGTH OF SHORELINE SEGMENT: 1100 mACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE:

Shoreline Type: SPI BEA/COV/HLD/STRTSlope: LANG/HANG/VERWave Exposure: High/Med/LowSediment: B___% / C___% / P___% / G___% / S___% / M___% / R___% See CommentsDrift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type Seaweed/Lags

OIL

Degree of Oiling: Heavy/Moderate/Light/No Oil/Unobserved/Very LightTotal Area of Beach Impact: SU / SP / H / M / L

OIL DISTRIBUTION

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

Sporadic: Y/N Segment % _____ Min/Max Dia _____ Impact Width _____

Est. Oil Thickness where > 1cm: _____ cm. See Comments SU / SP / UP / MID / LO
Depth below top sedEst. Oil Penetration: _____ 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 _____% H/M/L/VL Sheen _____%

OIL WEATHERING (OW)

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

Tar Formation _____%

Comments:

Segment consists of vertical face rock and steep boulder slopes. There are 4 beaches in the segment. Beaches 1 and 2 are unpiled. Beaches 3 and 4 are evaluated separately on the following forms. Refer to the attached map for locations of beaches.

DOCUMENTATION: K1-1 - SI-13Map/Aerial photo marking segment boundariesAttached

VTR:

Y/N

Tape Number(s)

None } No camera

Photography:

Y/N

Roll Number(s)

None } available

Sample Numbers Collected:

None

ECOLOGICAL EVALUATION

LOCATION: Sinnak Island SITE: East side OBSERVER: M. Fawcett
 LOCATION PREFIX: SI SEG. NO.: 13 LENGTH: 100 (M)
 DATE: 6/27/89 TIME (HHMM): 1630-1745 TIDE HT.: +0.7 - +1.5 (M)
 OILED ZONE: Splash High Medium Low
 SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud

LIVE BIOTA

Fucus (algae): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

Mytilus (Mussels): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

Balanus (Barnacles): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

Littorina

Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

Limpets: Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N

OTHER OBSERVATIONS: small stream enters at north end of Beach 4
possibly big enough for pink salmon and jelly garden - no oil seen
 STREAM

CLEANUP PRECAUTIONS: Avoid trampling & getting oil into
low intertidal zone

MAMMALS: Otters 3 Harbor Seals _____ Sea Lions _____ Whales _____
 Other _____

BIRDS: 2 eagles with nest

GENERAL OBSERVATIONS: Found 2 vireo sand wave beach, no waves -
other beaches of cobble & boulders have lots of barnacles & littorines
other organisms

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 6-27-89 Location SHUYAK ISLAND Site EAST CONST ANDREON BAY

Location Prefix K-1-1 Segment # SI-13 Length 1,100 M

Survey Method:

Air _____ (A - indicate on map) Boat X (50%) (A - indicate on map)

Ground X (50%) (G - indicate on map)

Known cultural resources (AHRS #) NONE Data Source N/A

Oil conditions/beach visibility Mostly very light except moderate area on Beach #4, good visibility

Width of beach zone surveyed 5 m Tree fringe surveyed 10 M

Cultural resources observed in beach zone (AHRS code) NONE

Cultural resources observed in tree fringe (AHRS code) NONE

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

Shore Profile Rocky headlands with pocket beaches except beach #2, a 500M long gravel beach

Fresh Water Sources Large lake 100M back in Veg zone at Beach #2

Sea Exposure SE exposure - protected somewhat by Little Fort Island and Shoals

Access/Safety NE coast of ANDREON BAY, fairly good anchorage - difficult access except by small boat in calm seas.

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 # NONE Frames _____

Observer(s) BOB BETTS

Time survey started 1629 Time survey ended 1745

Cultural resource considerations/restraints:

Standard Statement. No other archaeological restraints.

447

Woode

SI-13

615

660

Andreon
M. Bay G

Big Fort Channel

Big Fort Island

Foul

rent Narrows

19 Tide Rips

ACE 1852246-15

SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-013 SUBDIVISION A (1 OF 2) DATE 4/3/90

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)

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

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 J. Homan DATE: April 14, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 0 m: No Oil 1636 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

<u> </u> No Treatment Recommended	<u> </u> Snare/Absorbent Booms
<u>X</u> Treatment Recommended	<u> </u> Oil Snares (pom poms)
<u>X</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: Recommend manual pick up of oiled plastic, between 5/16 and 7/9.

TAG COMMENTS:

TAG APPROVAL DATE: 4/14/90
ADEC JOHN BAUER
EXXON ANDY GER FOSC: [Signature] DATE: 4-22-90
NOAA Burl Wescott
USCG G.A. REITER

ACE 1852211+15

FIELD SHORELINE COMMENT SHEET

SEGMENT ST/ K0101/ST013 SUBDIVISION: A DATE 4-3-90

~~NOAA~~
~~USCG~~

NAME John Naughton SIGNATURE John J. Naughton

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

Walked entire segment. No oil observed.

ADEC

NAME Scott Shelton SIGNATURE Scott Shelton

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

K0101/ST13 Sub. A
No oil observed ~ High energy beach. Access due to the steep cliffs is possible from Sub. A northern most boundary and SW subdivision B. Teams members walked 1911 meters of the cobble/bedrock beach. 11 pits were dug with no subsurface oil observed. Deer observed feeding on beach vegetation. Stream on this subdivision has a salmon run.

LAND MANAGER

NAME Ray Burger **ADNR** SIGNATURE Ray Burger

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

No oil observed

Two pieces of oiled ^{plastic} debris found @ NHW of pocket beach in mid-segment

Two beaches on segment are landable/campable

Numerous deer tracks on beach + upland trails

Stream at south end of segment had 2 deer carcasses + 6 eagles over

Area considered for addition to Shuyak State Park

REVISION NO. 09/21/90

ACE 1852212

SHORELINE OILING SUMMARY

REVISION NO. 02

OG Penland NAAR USCG Naughton SEGMENT ST/ Ko101/SE013
 BIO Spight LAND REP Burgen SUBDIVISION A
 EXXON Exxon ADEC Shelton TIME 13:15 to 15:42
 TEAM NO.: 19 TIDE LEVEL: -3 ft to -1.75 ft DATE 4/3/90
 EST. SUBDIVISION LENGTH: 1911 m ☐ Sun ☐ Clouds ☐ Fog ☒ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: N to S
 SURFACE SEDIMENTS: R 20 % B 20 % C 20 % P 20 % G 20 % S 0 % M 0 % V 0
 SLOPE: Long 40 % Hang 30 % Vert 30 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 0 m NO 1911

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	NO	NR	PR	IR	SP	ST	SL	ST	ST	ST	ST	ST	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 0PATTIES / TARBALLS 0 BAGNEAR SHORE SHEEN? (NO) BR RW SL T

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

DEBRIS COLLECT ☐ YES ☒ NOTYPE 0#BAGS 0

Photographs:

Roll No. ST-19-4Frames 1 & 2

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		UO	UO	SP	ST	SL	ST	ST	ST	ST	ST	SU	U	M	U		
1	30					X	.											X					Cobble, gravel
2	30					X	.											X					"
3	30					X	.											X					"
4	30					X	.											X					"
5	30					X	.											X					"
6	30					X	.											X					"

COMMENTS

• no oil observed in subdivision A

• subdivision A is a series of interconnected headlands with
cobble beaches.

ACE 1852213

SEGMENT ST/ K9121/57213 SUBDIVISION A

SUBSURFACE OIL (CONTINUED)

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CM)	BELOW		OIL / FILM COLOR							PIT ZONE				A N A	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UO	UC	BLK	BRN	GRY	GY	GRN	TR	LSA	SU	U	MS	U		
7	30					X	-										X					Cobble, gravel
8	40					X	.										X					"
9	50					X	.										X					"
10	50					X	.										X					"
11	3					X	.										X					"
							.															
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COMMENTS

ACE 1852214

REVIEWED

7W

DATE

4/8/90

SKETCH MAP

SEGMENT ST/ K0121/ST013

SUBDIVISION A

DATE 4 / 3 90

CHECKLIST

- ✓ H Arrow
- ✓ Approx. Scale
- ✓ Seg/Sub Boundary
- ✓ Oil Out
- Width
- Length
- % Cover
- ✓ Substrate Character
- ✓ Est. HAWLAWL
- ✓ SSL
- ✓ Profile Location(s)
- ✓ Profile(s)
- ✓ Pli Location(s)
- ✓ Photo Location(s)

LEGEND

1 Δ

PI - No Subsurface Oil

2 Δ

PI - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

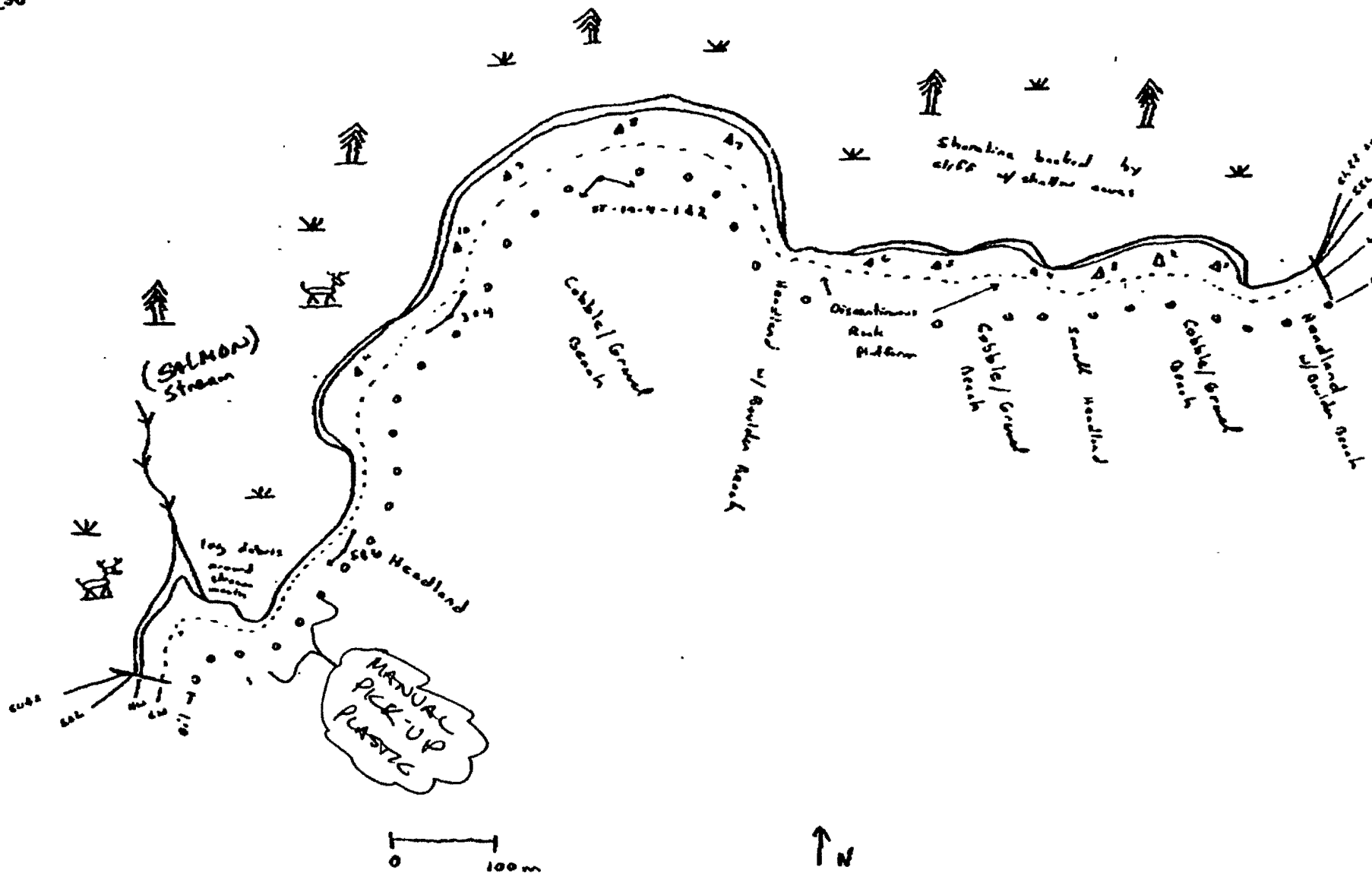
Splashed Distribution

Oiled Vegetation

1 →

Photo location, direction, and number

ACE 1852215



Tractor Length (m): AP ○ PO ○ CV ○ CT ○ ST ○ MS ○ PT ○ TB ○ FL ○ NO/911

REVISIONS: 00/0000

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/92

Segment ST / SI-013 Subdivision A Date (mo / day / yr) 4/3/90
Time (24 hr) 13:22 Biologist SPIGHT

- (A) Substrate type and % of segments:
(1) Bedrock 20 (2) Boulder 20 (3) Cobble 20 (4) Pebble 20 (5) Sand (6) Silt
- (B) Overall % cover of biota (% of segment): Dense 30 Moderate 50 Low 20
- (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	X	X	2	2	2	X	2	2	2	2	2
3	X	X	3	3	3	X	3	3	3	3	3
4	X	X	4	4	4	X	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	X	2	X	2	X	2	2	2
3	3	3	3	X	3	X	3	X	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	X	X	X	2	2	2	2	2	2
3	3	3	X	X	X	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	X	X	X	2	2	2	2	2
3	3	3	3	X	X	X	3	3	3	3	3
4	4	4	4	X	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:

Possible Anadromous stream at western end of section
Abundant signs of deer, bear above on headlands.

Ecological Considerations:

One basic habitat type but extremely patchy; all forms locally very dense; in amt. of dense population in total habitat probably barnacles > snails > Fucus > Mytilus. Variants depend on exposure, cobble size, amt of relatively flat surface (vs. vertical, which favors barnacles), and others

KODIAK ECOLOGICAL CONSTRAINTS

SI-013-A ? B

- 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/Oiga 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 (8/1 to 9/15)
- 6V Anchorages (8/1 to 9/15)
- 6W Forest Service cabins (8/1 to 9/15)
- 6X Lodge (8/1 to 9/15)
- 6Y Special use destination
- 7Z Subsistence area: Salmon harvesting (8/1 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 1852217

SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-013 SUBDIVISION A (1 OF 2) DATE 4/3/90

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)

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

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 J. Homan DATE: April 14, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 0 m: No Oil 1636 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

<u> </u> No Treatment Recommended	<u> </u> Snare/Absorbent Booms
<u>X</u> Treatment Recommended	<u> </u> Oil Snares (pom poms)
<u>X</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: Recommend manual pick up of oiled plastic, between 5/16 and 7/9.

TAG COMMENTS:

TAG APPROVAL DATE: 4/14/90
ADEC JOHN BAUER
EXXON ANDY TAYLOR FOSC: [Signature] DATE: 4-22-90
NOAA Burl Wescott
USCG G.A. REITER

FIELD SHORELINE COMMENT SHEET

SEGMENT ST/ KO101/ST013 SUBDIVISION: A DATE 4-3-90

~~NOAA~~
~~USCG~~

NAME John Naughton SIGNATURE John J. Naughton

☒ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

COMMENTS

Walked entire segment. No oil observed.

ADEC

NAME Scott Shelton SIGNATURE Scott Shelton

☒ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

COMMENTS

KO101/ST13 Sub. A

No oil observed - High energy beach. Access due to the steep cliffs is possible from Sub. A northern most boundary and SW subdivision B. Teams members walked 1911 meters of the cobble/bedrock beach. 1 pits were dug with no subsurface oil observed. Deer observed feeding on beach vegetation. Stream in this subdivision has a salmon run.

LAND MANAGER

NAME Ray Burger AONR SIGNATURE Ray Burger

☒ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

COMMENTS

No oil observed

Two pieces of oiled ^{plastic} debris found @ MHW of pocket beach in mid-segment.

Two beaches on segment are landable/campable

Numerous deer tracks on beach + upland trails

Stream at south end of segment had 2 deer carcasses + 6 eagles overh.

Area considered for addition to Shuyak State Park

SHORELINE OILING SUMMARY

REVISION NO. 02/20/91

OG Penland ~~NAA~~ USCG Naughton SEGMENT ST/ K0101/S2013
 BIO Spight LAND REP Burgen SUBDIVISION A
 EXXON Brace ADEC Shelton TIME 13:15 to 15:42
 TEAM NO.: 19 TIDE LEVEL: -3ft to -1.78ft DATE 4/3/90
 EST. SUBDIVISION LENGTH: 1911 m ☐ Sun ☐ Clouds ☐ Fog ☒ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: N to S
 SURFACE SEDIMENTS: R 20 % B 20 % C 20 % P 20 % G 20 % S 0 % M 0 % V 0 %
 SLOPE: Lang 40 % Hang 30 % Vert 30 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 0 m NO 1911 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR						IMPACTED ZONES			
	A	B	P	R	SP	OR	OL	OP	NO	SU	U	M	U	
ASPHALT PAVEMENT														
POOLED														
COVER														
COAT														
STAIN														
MOUSSE														
PATTIES														
TARBALLS														
FILM														
NO OIL														

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. ST-19-4Frames 1 & 2

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CM)	BELOW		OIL / FILM COLOR						PIT ZONE				A N A	SUBSURFACE SEDIMENTS		
		OP	OR	OL	OF	NO		UO	UC	SP OR	OL FW	OL SP	SP FW	FW UC	SU	U	M	L					
1	30					X	.									X							Cobble, gravel
2	30					X	.									X							"
3	30					X	.									X							"
4	30					X	.									X							"
5	30					X	.									X							"
6	30					X	.									X							"

COMMENTS

- no oil observed in subdivision A
- subdivision A is a section of interconnected headlands with cobble beaches.

SUBSURFACE OIL (CONTINUED)

[illegible]

COMMENTS

REVIEWED 7w DATE 4/8/90

SKETCH MAP

SEGMENT ST/ k0121/SK013

SUBDIVISION A

DATE 4 / 3 90

CHECKLIST

- ☒ N Arrow
- ☒ Approx. Scale
- ☒ Seg/Sub Body
- ☒ Oil Dist.
- Width
- Length
- % Cover
- ☒ Substrate Character
- ☒ Est. HAPLAWL
- ☒ SSI
- ☒ Profile Location(s)
- ☒ Profile(s)
- ☒ PII Location(s)
- ☒ Photo Location(s)

LEGEND

1 Δ

PII - No Subsurface Oil

2 Δ

PII - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

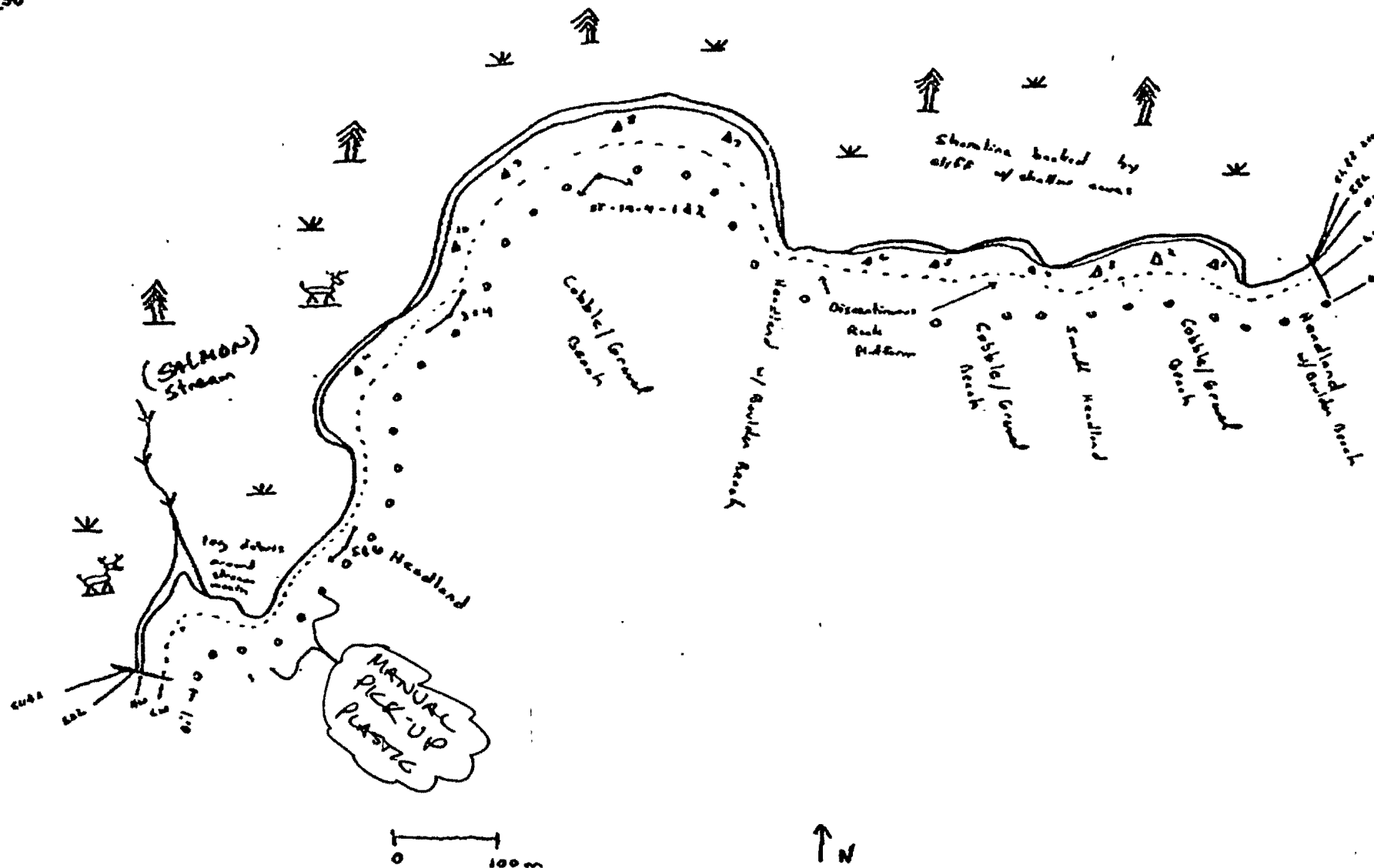
CT/S

Splashed Distribution

Oiled Vegetation

1 ➡

Photo location, direction, and number



Tractor Length (m): AP ☐ PO ☐ CV ☐ CT ☐ ST ☐ MS ☐ PT ☐ TB ☐ FL ☐ NO 1911

REVISION 000000

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22/90

Segment ST / SI-013 Subdivision A Date (mo / day / yr) 4/3/90Time (24 hr) 13:22 Biologist SPIGHT

(A) Substrate type and % of segments:

(1) Bedrock 20 (2) Boulder 20 (3) Cobble 20 (4) Pebble 20 (5) Sand (6) Silt (B) Overall % cover of biota (% of segment): Dense 30 Moderate 50 Low 20

(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	X	X	2	2	2	X	2	2	2	2	2
3	X	X	3	3	3	X	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	X	2	X	2	X	2	2	2
3	3	3	3	X	3	X	3	X	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	X	X	X	2	2	2	2	2	2
3	3	3	X	X	X	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	X	X	X	2	2	2	2	2
3	3	3	3	X	X	X	3	3	3	3	3
4	4	4	4	X	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:

Possible Anadromous stream at western end of section
 Abundant signs of deer, bear above on headlands.

Ecological Considerations:

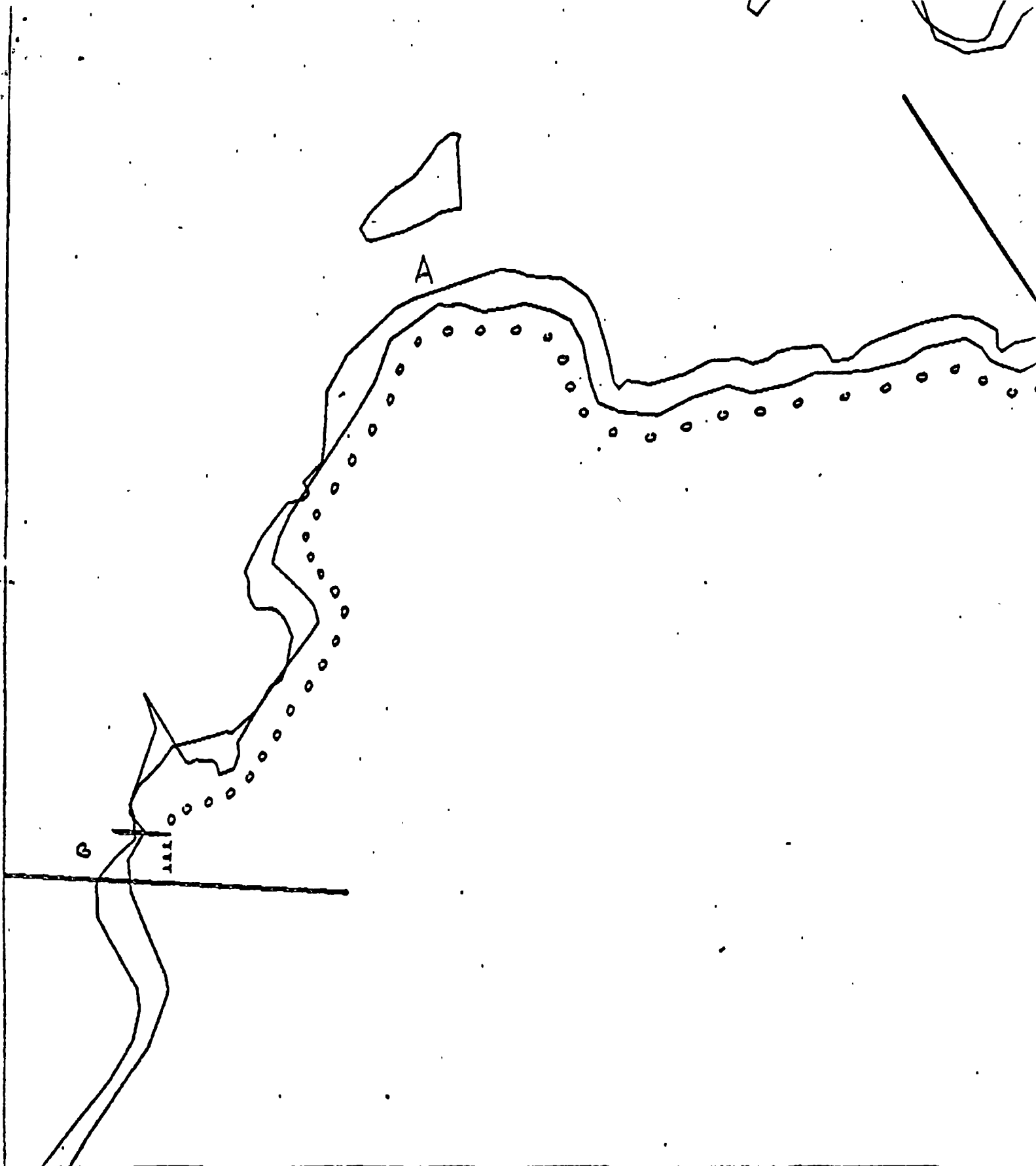
One basic habitat type but extremely patchy; all forms locally very dense;
 in amt. of dense population in total habitat probably barnacles > snails >
 Fucus > Mytilus. Variants depend on exposure, cobble size,
 amt. of relatively flat surface (vs. vertical, which favors barnacles),
 and others

KODIAK ECOLOGICAL CONSTRAINTS

S1-013-A 1B

- 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 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 (8/1 to 9/15)
- 6V Anchorages (8/1 to 9/15)
- 6W Forest Service cabins (6/1 to 9/15)
- 6X Lodge (8/1 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.



XXXX Wide

//// Medium

--- Narrow

TTTT Very Light

OOOO No Oil

SI-13

ADEC Segment Length: 1971m

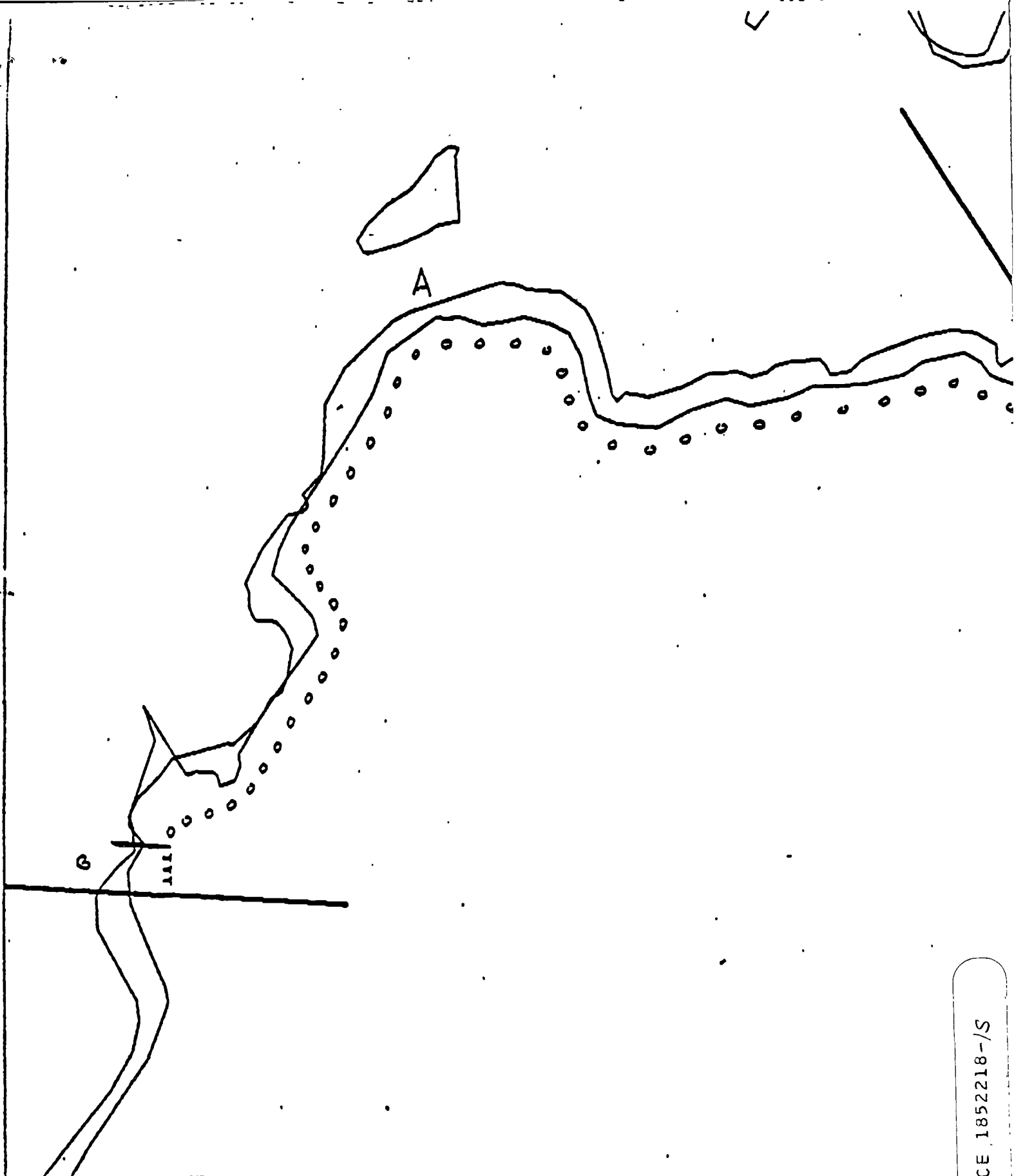


Map Key: KOD-171a

Name: Shes Penland

Date: 4-4-90

Data Entered:



ACE 1852218-/S

XXXX Wide

//// Medium

---- Narrow

TTTT Very Light

OOOO No Oil

SI-13

ADEC Segment Length: 1971m



Map Key: K00-1710

Name: Shes Penland

Date: 4-4-90

Data Entered:

ADF&G MULTI-ASSESSMENT FORM
1991 GENERAL ENTRY CHECKLIST

STREAM#: 25181812
SEGMENT: SI013

PAGE 30

DATE PRINTED: 07/25/91

LOCATION: SHUYAK ISLAND, ANDREAN BAY

SURVEY TYPE: 90 PRE ANADSSAT - SS

METHOD: GROUND

DATE: 04/11/90

TEAM RECORDER: WEISS

START TIME: 1038

OBSERVERS: BARNHART THOMAS BEYER

END TIME: 1053

TIDES: EBB SLACK

AGENCY: FG EXX

OG/HAB DISCREPANCIES: -

PHOTOS TAKEN: N

STATION: 25181812

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: LOW-LYING ROCKS

SUBSTRATE TYPE: BEDROCK 20 BOULDER -0- 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-

Noted.

ADF&G MULTI-ASSESSMENT FORM
1991 OILING ENTRY CHECKLIST

PAGE 30

DATE PRINTED: 07/26/91

STREAM# : 25181812
SEGMENT#: SI013

SURVEY TYPE : 90 PRE ANADSSAT - SS LOCATION: SHUYAK ISLAND, ANDREAN BAY
DATE: 04/11/90
TIMES: 1038 - 1053 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- TP

COMMENTS:

1 MALE DEER DOA STARVATION, TEETH INDICATED YOUNGER DEER. $\frac{1}{2}$ " - 2" DIAMETER
PT/P IN STREAM COVE/MOUTH AREA. MID TIDE LEVEL ON BANK. DARK WEATHERED
PATTIES HARD TO SPOT BOTH BANKS. RECOMMEND: YES, ANADSCAT.

1990 preanadscat



ADF&G MULTI-ASSESSMENT DATA FORM

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

METHOD: Aerial Ground Boat

3 DATE: 4-10-90 15 HIGH TIDE TIMES: 1 21 TEAM RECORDER: E. Weiss

4 START TIME: 1038 16 HIGH TIDE HTS: 1 22 OBSERVERS: BARNHART, Thomas & YER

5 STOP TIME: 1053 17 LOW TIDE TIMES: 1025 23 AGENCY: ADF&G / Exxon

6 SEGMENT #: SI013 18 LOW TIDE HTS: -0.3 24 PHOTOS TAKEN: Y X

7 STATION #: 251-81-10090 19 TIDE HT AT SURVEY: _____ Roll #: _____ Frame: _____

8 K-UNIT: K-1 Ebb Slack Flood Slack 25 VIDEO TAKEN: Y X TAPE#: _____

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

10 LAT: 58°30'0"N 11 LONG: 152°26'0"W 26 SAMPLES TAKEN? Y X Number _____

12 SOURCE: Map Loran 011 _____

13 LOCATION: ANDREAN BAY, E. SIDE STUYAK ISLAND 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								

30 OVERALL OIL IMPACT: N VL L M H

31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain

32 OILED DEBRIS? Y X

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

34 WAVE EXPOSURE: High Moderate Low

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

36 CATALOGED ANAD. FISH STREAM? X N

37 CATALOG #: 251-81-8120K8

38 STREAM NAME: ANDREAN BAY CREEK
251-82-10090 SW 9/21/9

39 OIL IN STREAM BED? Y 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: _____

43 ANADROMOUS FISH PRESENT? Y N

44 ANADROMOUS FISH OBSERVATION

Species	Aerial	Ground

COMMENTS: 1 MALE DEER DOA, STARVATION, TEETH INDICATED YOUNGER DEER.
1/4"-2" DIA PT/P IN STREAM COVE/MOUTH AREA. MID TIDE
LEVEL ON BANK. DARK WEATHERED PATRIES HARD TO SPOT BOTH
BANKS.

RECOMMENDS: YES, ANADSCAT

E. Weiss Jeff Barnhart

ACE 1852178

1990 preanadscat

ADF&G MULTI-ASSESSMENT DATA FORM

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

METHOD: Aerial Ground Boat

3 DATE: 4-10-90 15 HIGH TIDE TIMES: / 21 TEAM RECORDER: E. Weiss

4 START TIME: 1038 16 HIGH TIDE HTS: / 22 OBSERVERS: BARNHART, THOMAS, BEYERS

5 STOP TIME: 1053 17 LOW TIDE TIMES: 1025 23 AGENCY: ADF+G / Exxon

6 SEGMENT #: SI013 18 LOW TIDE HTS: -0.3 24 PHOTOS TAKEN: Y X

7 STATION #: 251-81-10090 19 TIDE HT AT SURVEY: / Roll #: / Frame: /

8 K-UNIT: K-1 Ebb Slack Flood Slack 25 VIDEO TAKEN: Y X TAPE#: /

9 STAT AREA: 251-81 20 USCG QUAD: AFOGNAK Start: / End: /

10 LAT: 58°30'0"N 11 LONG: 152°26'0"W 26 SAMPLES TAKEN? Y X Number /

12 SOURCE: Map Loran 011 /

13 LOCATION: ANDREAN BAY, E. SIDE SAUVAK ISLAND Sediment /

14 DESCRIPTION: / Biological /

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 X

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

34 WAVE EXPOSURE: High Moderate Low

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

36 CATALOGED ANAD. FISH SREAM? X N

37 CATALOG #: 251-81-812 OK

38 STREAM NAME: ANDREAN BAY CREEK
251-82-10090 9/21/91

39 OIL IN STREAM-BED? Y X

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: /

43 ANADROMOUS FISH PRESENT? Y N

44 ANADROMOUS FISH OBSERVATION

Species	Aerial	Ground

COMMENTS: 1 MALE DEER DOA. STARVATION, TEETH INDICATED YOUNGER DEER.
1/4"-2" DIA PT/P IN STREAM COVE/MOUTH AREA. MID TIDE
LEVEL ON BANK. DARK WEATHERED PATIES HARD TO SPOT BOTH
BANKS.

RECOMMEND: YES, ANADSCAT

E. Weiss Jeff Barnhart

ACE 1852178

45 PHOTOLOG

FRAME(S)	DESCRIPTION

46 OIL DISTRIBUTION DIAGRAM

= Sample taken
 = Photo frame # and
 shot direction.

ACE 1852179

'90 Anadssat

ASC NUMBER: SEGMENT NUMBER: YR CATALOGED:
LOCATION:
STREAM NAME: *Andrean Bay Creek*
KODIAK K-UNIT: LOCAL STREAM #: LATITUDE:
USGS QUADRANGLE: LONGITUDE:
SHORELINE TYPE: *Cove* LEGAL:
WAVE EXPOSURE: *Low*

ASC NUMBER: *251-81-812*
SURVEY TYPE: *AS*
METHOD: *Foot*
DATE: *5/1/90*
START TIME: *1240*
STOP TIME: *1325*

TEAM RECORDER: *E. Weiss*
OBSERVERS: *M. Goodwin, K. Larson, K. Critchlow,*
D. Yoer
AGENCY (IES): *ADFG/ADNR/Exxon/WWC*

PHOTOS TAKEN? *N*
Roll #: Frames:
VIDEO TAKEN? *N* Tape Number:
Counter Start:

SAMPLES TAKEN? *N*

SAMPLE I.D. NUMBERS: 1. 2. 3.
4. 5. 6.

OILING DATA

	LENGTH	WIDTH	M2	%	THICK	FEN	OIL TYPE
SITE 1	<i>100m</i>	<i>20cm</i>		<i>sporadic</i>	<i>N/A</i>	<i>N/A</i>	<i>MT/TB</i>
SITE 2	<i>75m</i>	<i>20cm</i>		<i>sporadic</i>	<i>N/A</i>	<i>N/A</i>	<i>PT/TB</i>
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT: *VL*

OIL IN STREAM CHANNEL? *Y*

SUBSTRATE

Bedrock Granule *20*
Boulder *30* Sand
Cobble *50* Silt
Pebble Veget.

OIL ON BEACH WITHIN 50M OF STREAM MOUTH? *N*

SPECIES					
COUNT					

COMMENTS: *Sporadic Tar patties around Cove, more on South shore. Recommend no cleanup necessary. See OG's SSAT Report sketch.*

ADF&G MULTI-ASSESSMENT FORM
1991 GENERAL ENTRY CHECKLIST

STREAM#: 25181812
SEGMENT: SI013

PAGE 31

DATE PRINTED: 07/25/91

LOCATION: SHUYAK ISLAND, ANDREAN BAY

SURVEY TYPE: 90 ANADSSAT

METHOD: FOOT

DATE: 05/01/90

TEAM RECORDER: WEISS

START TIME: 1240

OBSERVERS: GOODWIN, LARSON, CRITCHLOW
YOES

END TIME: 1325

TIDES: -0-

AGENCY: FG ADNR EXX WWC

OG/HAB DISCREPANCIES: -

PHOTOS TAKEN: N

STATION: 25181812

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: Y

OVERALL OIL IMPACT: VL

OIL ON BEACH BY MOUTH: N

WAVE EXPOSURE: LOW

SHORELINE TYPE: COVE

SUBSTRATE TYPE: BEDROCK -0- BOULDER 30 COBBLE 50 VEGETAT -0-

GRAVEL -0- SAND -0- MUD/SILT -0- GRANULE -0- 20

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 31

DATE PRINTED: 07/26/91

STREAM# : 25181812
SEGMENT#: SI013

SURVEY TYPE : 90 ANADSSAT
DATE: 05/01/90
TIMES: 1240 - 1325

LOCATION: SHUYAK ISLAND, ANDREAN BAY
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-	100	20	-0-	-0-	-0-	-0-	MS TB
2	-0-	-0-	75	20	-0-	-0-	-0-	-0-	PT TB

COMMENTS:

SPORADIC TAR PATTIES AROUND COVE, MORE ON SOUTH SHORE. RECOMMEND NO
CLEANUP NECESSARY. SEE OG'S SSAT REPORT SKETCH.



'90 AnadssAT

ASC NUMBER: SEGMENT NUMBER: YR CATALOGED:
LOCATION:
STREAM NAME: *Andrean Bay Creek* LATITUDE:
KODIAK K-UNIT: LOCAL STREAM #: LONGITUDE:
USGS QUADRANGLE: LEGAL:
SHORELINE TYPE: *Cove* WAVE EXPOSURE: *Low*

ASC NUMBER: *251-81-812*
SURVEY TYPE: *AS*
METHOD: *Foot*
DATE: *5/1/90*
START TIME: *1240*
STOP TIME: *1325*

TEAM RECORDER: *E. Weiss*
OBSERVERS: *M. Goodwin, K. Larson, K. Critchlow,*
D. Yoes
AGENCY(IES): *ADFG/ADNR/Exxon/WWC*

PHOTOS TAKEN? *N*
Roll #: Frames:
VIDEO TAKEN? *N* Tape Number:
Counter Start:

SAMPLES TAKEN? *N*

SAMPLE I.D. NUMBERS: 1. 2. 3.
4. 5. 6.

OILING DATA

	LENGTH	WIDTH	M2	%	THICK	FEN	OIL TYPE
SITE 1	<i>100m</i>	<i>20cm</i>		<i>sporadic</i>	<i>N/A</i>	<i>N/A</i>	<i>MYTB</i>
SITE 2	<i>75m</i>	<i>20cm</i>		<i>sporadic</i>	<i>N/A</i>	<i>N/A</i>	<i>PT/TB</i>
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT: *VL*

OIL IN STREAM CHANNEL? *Y*

OIL ON BEACH WITHIN 50M OF STREAM MOUTH? *N*

SUBSTRATE

Bedrock
Boulder *30*
Cobble *50*
Pebble
Granule *20*
Sand
Silt
Veget.

SPECIES					
COUNT					

COMMENTS: *Sporadic Tar patties around Cove, more on South shore. Recommend no cleanup necessary. See OG's SSAT Report sketch.*

ANADSSAT

ADF&G MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS ~~SS~~ DS TS AVS SCHA MMHS PTA2 REGION: PWS KP,CI K,APMETHOD: Aerial Ground Boat3 DATE: 5/1/9015 HIGH TIDE TIMES: 121 TEAM RECORDER: E. WEISS4 START TIME: 124016 HIGH TIDE HTS: 122 OBSERVERS: M. GOODWIN, K. LARSON
K. CRITCHLOW, D. YOE5 STOP TIME: 132517 LOW TIDE TIMES: 150423 AGENCY: ADFG/ADNR/EXXON/WWC6 SEGMENT #: SI01318 LOW TIDE HTS: .524 PHOTOS TAKEN: Y

7 STATION #:

19 TIDE HT AT SURVEY:

Roll #: Frame:

8 K-UNIT: K0101Ebb Slack Flood Slack25 VIDEO TAKEN: Y TAPE#:

9 STAT AREA:

20 USCG QUAD: AFOGNAK

Start: End:

10 LAT:

11 LONG:

26 SAMPLES TAKEN? Y Number

12 SOURCE: Map Loran

011

13 LOCATION: ANDREAN BAY, SHUYAK ISLAND

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								

30 OVERALL OIL IMPACT: N VL L M H31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain

32 OILED DEBRIS? Y N

33 SHORELINE TYPE: Headland Low-lying Rocks Beach Cove
Lagoon Marsh34 WAVE EXPOSURE: High Moderate Low35 SUBSTRATE TYPE: Bedrock Boulder 30 Cobble 50Gravel 20 Sand Mud/silt36 CATALOGED ANAD. FISH SREAM? 237 CATALOG #: 251-81-81238 STREAM NAME: ANDREAN BAY CREEK39 OIL IN STREAM BED? Y40 OIL ON STREAM BANKS? Y N41 OIL ON BEACH ADJACENT TO MOUTH? Y
(within 50 meters)42 OIL WITHIN 1 MILE OF STREAM? Y N

Where:

43 ANADROMOUS FISH PRESENT? Y N44 ANADROMOUS FISH OBSERVATION
Species Aerial Ground

COMMENTS: SPORADIC TAR PATTIES AROUND COVE MORE ON
SOUTH SHORE.

RECOMMEND: NO CLEANUP NECESSARY

ACE 1852180

FRAME(S)

DESCRIPTION

46 OIL DISTRIBUTION DIAGRAM

SEE OG'S SSAT REPORT
 SKETCH.

= Sample taken
 = Photo frame # and
 shot direction.

ACE 1852181

ANADROMOUS FISH STREAM EVALUATION

Andrean Bay Creek

SEGMENT ST/K02-01-SI-013 STREAM NO: 251-81-812 DATE 5/1/90

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)

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: Rachel Jan Darr DATE: 5/25/90

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: 5/24/90

ADEC Art Weiner Art Weiner

EXXON Amy Tate Amy Tate

NOAA Bill Warcott Bill Warcott

USCG M. J. Hall M. J. Hall

FOSC: _____ DATE: _____

ACE 1852207-1/FF

ANADROMOUS FISH STREAM EVALUATION

Andrean Bay Creek

SEGMENT ST/K02-01-SI-013 STREAM NO: 251-81-812 DATE 5/1/90

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)

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: Rachel Jan Darr DATE: 5/25/90

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 Removal	<u> </u> Beach Cleaner
	<u> </u> Other (see comments)

COMMENTS:

TAG COMMENTS:

TAG APPROVAL DATE: 5/24/90

ADEC ART WEINER

EXXON ANDY TATE

NOAA BILL WISSEOTT

USCG W. J. HALL

FOSC: DATE:

*TAG
5/23/90
JW*

RECEIVED
MAY 19 1990

DEPT. OF
ENVIRONMENTAL CONSERVATION

ANADROMOUS FISH STREAM ASSESSMENT

REGION: KODIAK

SEGMENT: K02-01-SI-013

SUBDIVISION: A

STREAM NO: 251-81-812

*Afoznoh Is
Andrean Bay Arch*

*Concuss
KRM 5/22/90*

ANADROMOUS FISH STREAM EVALUATION

Andrean Bay Creek

SEGMENT ST/K02-01-SI-013 STREAM NO: 251-81-812 DATE 5/1/90

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)

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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:

- | | |
|--|-------------------------------------|
| ☒ 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 1852198

KODIAK ECOLOGICAL 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)
 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
- 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.

FIELD SHORELINE COMMENT SHEET

10/25

ASC# (ANDREAN BAY CREEK)

SEGMENT ST / SE-013 SUBDIVISION: 251-81-812 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

NO TREATMENT RECOMMENDED DUE TO SPORADIC NATURE OF IMPACT AND WEATHERED CONDITION OF OIL AND LOCATION HIGH ON BANKS. DON'T BELIEVE THIS IMPACT TO BE HAZARDOUS TO FISHERIES.

~~LAND MANAGER~~ → ~~ADNR~~

NAME Mike Godwin SIGNATURE Mike Godwin

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

NO TREATMENT RECOMMENDED DUE TO MINIMAL OIL PRESENT AND IMPACT TO LAND AND RECREATIONAL VALUES.

SHORELINE OILING SUMMARY (ANAD)

REVISION NO. 04/13/80

OG CAL LARSON USCG DREHER, CWE SEGMENT STI SI 013 14/25
 BIO KEN CRITCHLOW LAND REP MIKE GOODWIN ..STREAM 251-21-212 (OF)
 EXXON DARLHL YVES ADFG ED WEISS TIME 12:321001:25
 TEAM NO. 14 TIDE LEVEL -0- FT. DATE 5/1/90
 EST. SUBDIVISION LENGTH: 50 m ☐ Sun ☐ Clouds ☐ Fog ☒ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R 20 % B 20 % C 20 % P 20 % G 20 % S 20 % M 0 % V 0
 SLOPE: Lang 0 % Hang 0 % Vert 0 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 175 m NO 0 m

SURFACE OIL

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

PAVEMENT H F S 0 sq. m by 0 crPATTIES / TARBALLS 3 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 0#BAGS 0

Photographs:

Roll No. 0Frames 0

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-FT)	BELOW		OIL / FILM COLOR								PIT ZONE				A N A	SHEEN (Y/N)	▼	SURFACE + SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UO	UC	BR	FW	GY	BL	TR	LR	SU	U	M	U						
							.																		
							.																		
							.																		
							.																		
							.																		
							.																		

COMMENTS NO PITS DUG TO LACK OF OIL PENETRATION.REVIEWED 7 W DATE 5/3/90

ACE 1852201

SEGMENT STI. SI 013

STREAM 251-81-812

DATE 5 / 1 / 90

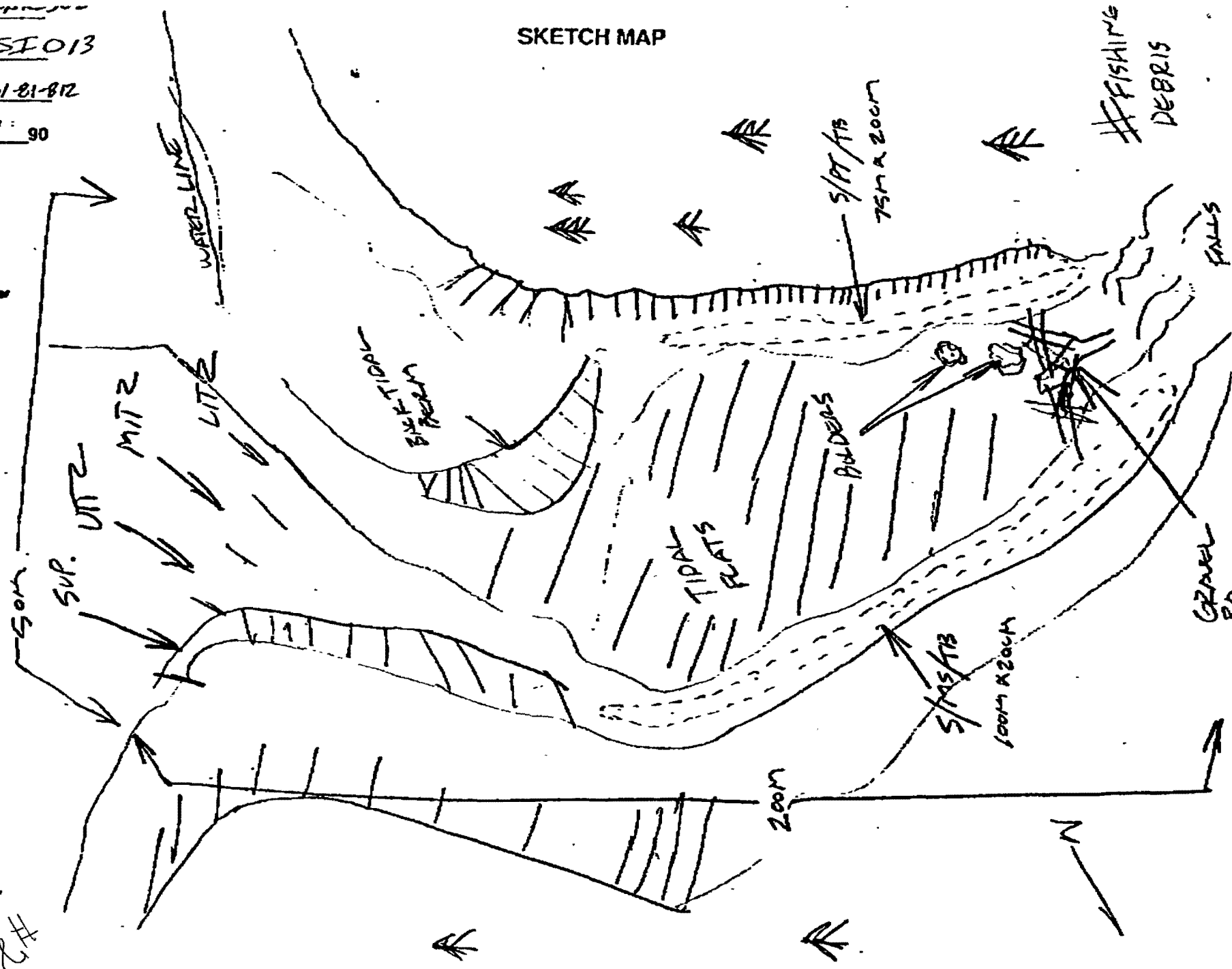
SKETCH MAP

CHECKLIST

- ☐ N Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Bndry
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HSM/LVL
- ☐ SSL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ PH Location(s)
- ☐ Photo Location(s)

LEGEND

- 1 Δ PH - No Subsurface Oil
- 2 Δ PH - Subsurface Oil
- CT/C Continuous Distribution
- CT/B Broken Distribution
- CT/P Patchy Distribution
- CT/S Splotched Distribution
- eee Oiled Vegetation
- Photo location, direction, and number



Oil Character Length (m): AP PO CV CT ST MS PT 87.5 TB 87.5 FL NO

REVISION 03/24/88

16/25

Seg ID: SI-013 Subdiv: 251-81-8/2
Survey Date: 5/1/90 interim stream no.
Comments by: Ken Critchlow

A very light, scattered band of tarballs was observed in the upper ULTZ along both sides of the stream.

The intertidal biota was very healthy and productive. There were no ecological constraints, and no clear need for oil cleanup for ecological/fisheries reasons.

KR Critchlow

17/25
ANADSSAT

ADFG MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS ☒ DS ☐ TS ☐ AVS ☐ SCMA ☐ MMS ☐ PTA ☐

2 REGION: PWS KP, CI

KAP

METHOD: Aerial ☒ Ground ☐ Boat ☐

3 DATE: 5/1/90

16 HIGH TIDE TIMES: 1

21 TEAM RECORDER: E. WEISS

4 START TIME: 1240

18 HIGH TIDE HTS: 1

22 OBSERVERS: M. GOODWIN, K. LALSO

5 STOP TIME: 1325

17 LOW TIDE TIMES: 1504

23 AGENCY: ADFG/ADNR/EXXON/UN

6 SEGMENT #: SI013

19 LOW TIDE HTS: .5

24 PHOTOS TAKEN: Y

7 STATION #:

10 TIDE HT AT SURVEY:

Roll #: _____ Frames: _____

8 K-UNIT: K0101

Ebb Slack Flood Slack

25 VIDEO TAKEN: Y TAPES: _____

9 STAT AREA:

20 USCG QUAD: AFOGNAK

Starts: _____ Ends: _____

10 LAT:

11 LONG:

26 SAMPLES TAKEN Y Number

12 SOURCE: Map ☐ Loran ☐

13 LOCATION: ANDREAN BAY, SHUYAIL ISLAND

14 DESCRIPTION:

EXTENT OF OIL

27 SURFACE COVERAGE

SHORELINE				STREAM			
L	W	H ²	S	L	W	H ²	S

28 SURFACE THICKNESS

29 PENETRATION

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

31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain

32 OILED DEBRIS? Y N

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

34 WAVE EXPOSURE: High Moderate Low

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

36 CATALOGED ANAD. FISH STREAM? 2x

37 CATALOG #: 251-81-812

38 STREAM NAME: ANDREAN BAY CREEK

39 OIL IN STREAM BED? Y ✓

40 OIL ON STREAM BANKS? ✓ N

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

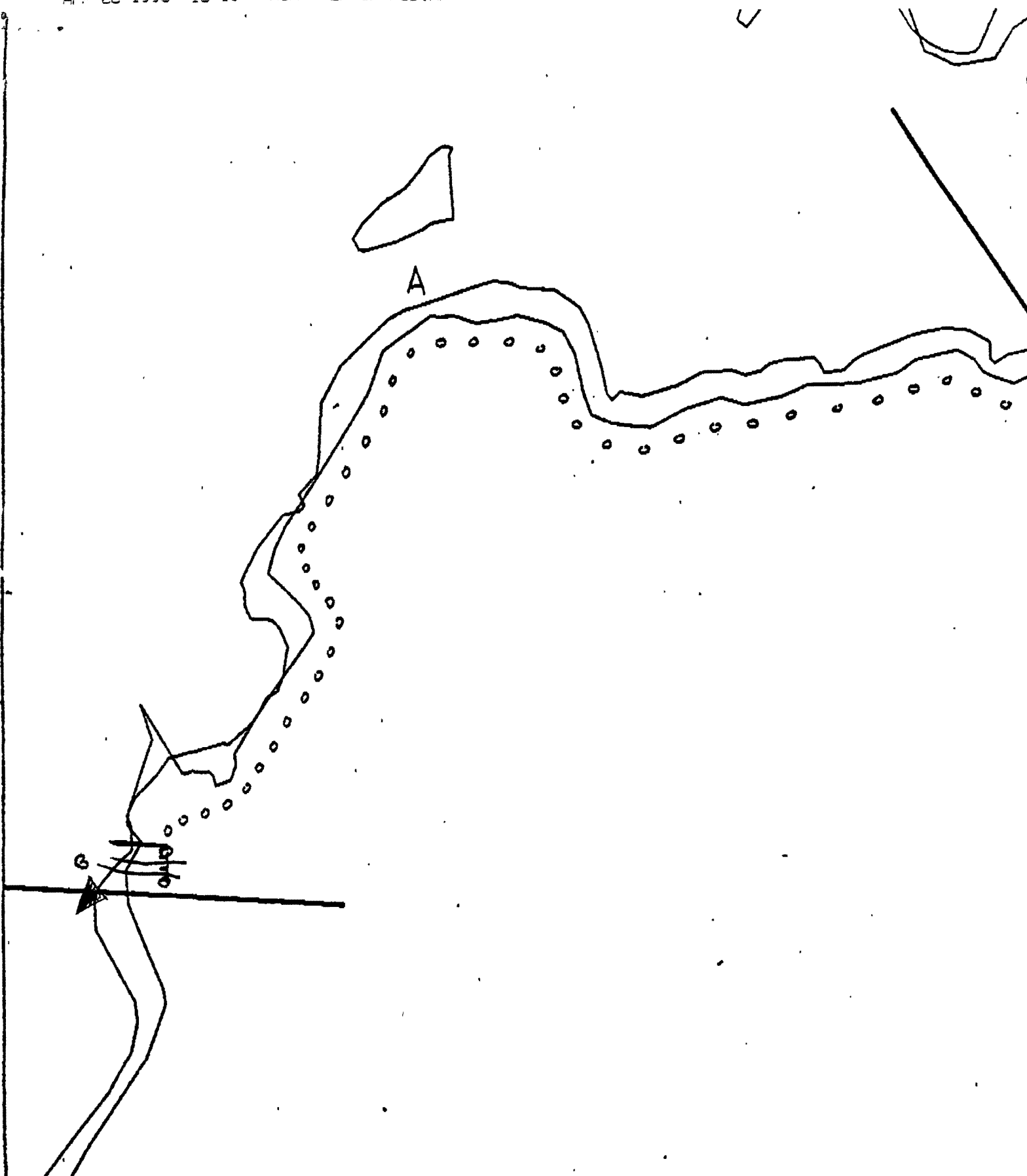
42 OIL WITHIN 1 MILE OF STREAM? Y N

Where: _____

43 ANADROMOUS FISH PRESENT? Y N

44 ANADROMOUS FISH OBSERVATION
Species Aerial Ground

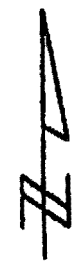
COMMENTS: SPORADIC TAR PATCHES AROUND COVE MORE ON
SOUTH SHORE.



XXXX Wide
//// Medium
--- Narrow
TTTT Very Light
OOOO No Oil

SI-13

ADEC Segment Length: 1971m



Map Key: KOD-171e
Name: Shes Peiland
Date: 4-4-90
ACE 1852206 -/S
Data Entered:

ANADROMOUS FISH STREAM EVALUATION

KODIAK

Andrean Bay Creek

SEGMENT ST/K02-01-SI-013 STREAM NO: 251-81-812 DATE 5/1/90

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)

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: Rachel J. O'Neil DATE: 5/25/90

Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

- | | |
|--|-------------------------------------|
| ☒ 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: 5/24/90.

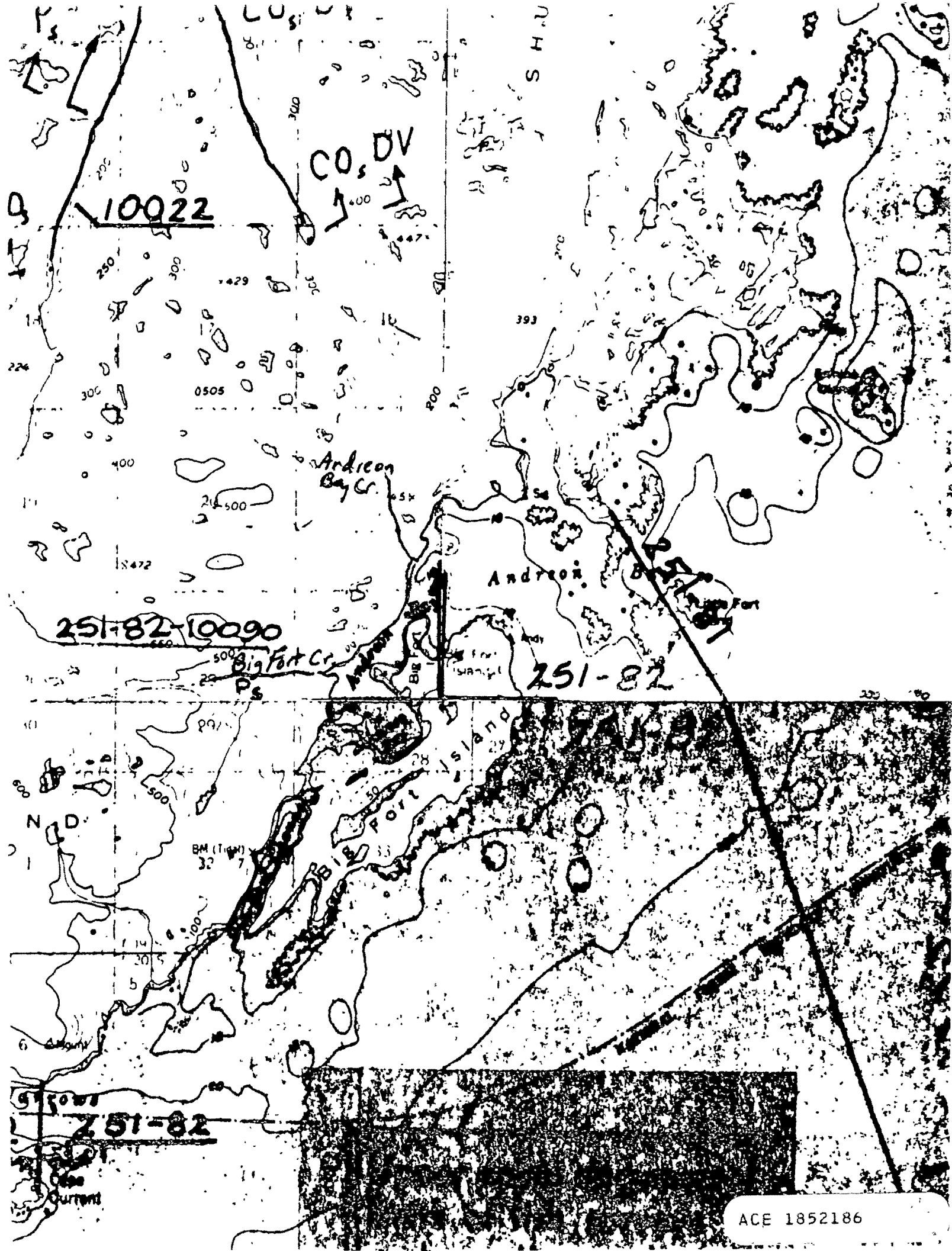
ADEC Art Weinert Art Weinert

EXXON Andy Tate Andy Tate

NOAA Bill Wescott Bill Wescott

USCG M. J. Hall M. J. Hall

FOSC: [Signature] DATE: 5/31/90



CO, DV
↑
↑

10022

251-82-10090

251-82

Anderson Bay Cr.

Anderson

Big Fort Cr.

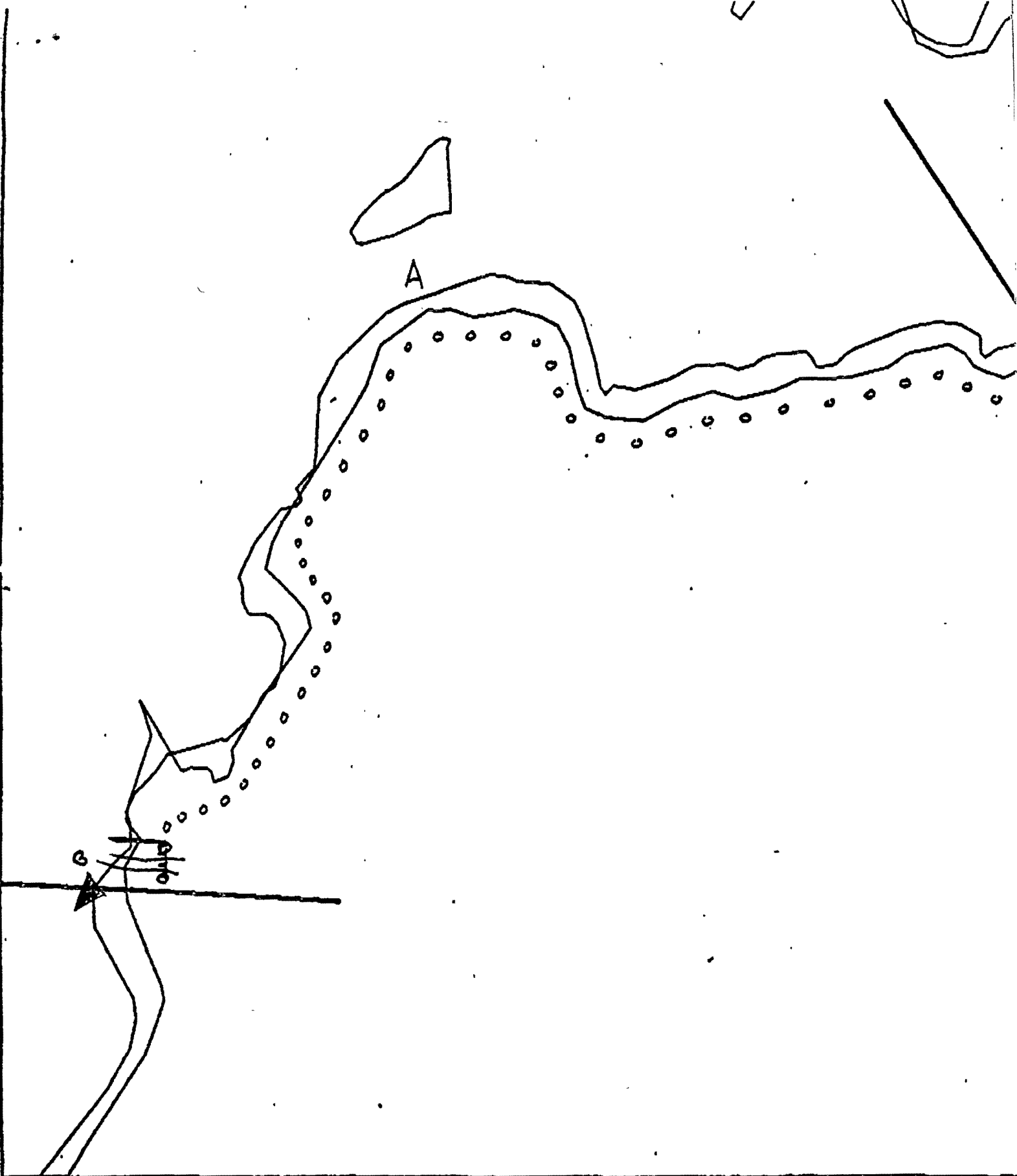
Big Island

Port

BM (Tide)

32

251-82



XXXX Wide

//// Medium

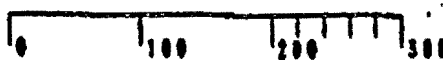
--- Narrow

TTTT Very Light

OOOO No Data

SI-13

ADEC Segment Length: 1971m



Map Key: KOD-171e

Name: Shaa Penland

Date: 4-4-90

ACE 1852187-15

Data Entered:

ANADROMOUS FISH STREAM EVALUATION

N/TIR

SEGMENT ST/K02-01-SI-013 STREAM NO: 251-81-812 DATE 5/1/90

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)

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: Rachel Jan Dan DATE: 5/25/90

Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

- | | |
|--|--|
| ☒ 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: 5/24/90.
ADEC Art Weinson
EXXON Andy Tate
NOAA Bill Wescott
USCG M. J. Hall

FOSC: [Signature] DATE: 5/31/90

KODIAK ECOLOGICAL 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)
 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 unrolled 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
- 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 1852220

FIELD SHORELINE COMMENT SHEET

10/25

ASC# (ANDREAN BAY CREEK)

SEGMENT ST / SI-013 SUBDIVISION: 251-81-812 DATE 01 MAY 90

USCG

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

ADFG

ADEG

NAME EDWARD W. WEISS SIGNATURE Edward W. Weiss☒ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTED

NO TREATMENT RECOMMENDED DUE TO SPORADIC NATURE
OF IMPACT AND WEATHERED CONDITION OF OIL AND LOCATION
HIGH ON BANKS. DON'T BELIEVE THIS IMPACT TO BE HAZARD
TO FISHERIES.

LAND MANAGER

NAME Mike Cooper SIGNATURE Mike Cooper☒ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTED

NO TREATMENT RECOMMENDED DUE TO MINIMAL
OIL PRESENT AND IMPACT TO LAND AND RECREATIONAL
VALUES.

SHORELINE OILING SUMMARY (ANAO)

REVISION NO. 04/13

OG CAL LARSON USCG DREHER, C.W.E. SEGMENT ST/ SI 013 14/25
 BIO KEN CRITCHLOW LAND REP MIKE GOODWIN STREAM 251-21-212 (OF)
 EXXON DARRELL YONES ADFG ED WEISS TIME 12:32:00 25
 TEAM NO. 14 TIDE LEVEL -0- FT. DATE 5/1/90
 EST. SUBDIVISION LENGTH: 50 m ☐ Sun ☐ Clouds ☐ Fog ☒ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R % B 20 % C 20 % P 20 % G 20 % S 20 % M % V
 SLOPE: Long % Hang % Vert % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W m M m N m VL 175 m NO m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	C	N	P	B	BR	FW	GT	BL	TL	LB			SU	U	M	U
ASPHALT PAVEMENT																
POOLED																
COVER																
COAT																
STAIN																
MOUSSE				✓					✓				✓			
PATTIES				X					X				X			
TARBALLS				✓	✓	✓							✓			
FILM																
NO OIL													✓	✓	✓	

PAVEMENT H F S sq. m by PATTIES / TARBALLS 3 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	BR	FW	GT	BL	TL	LB			SU	U	M	U				

COMMENTS NO PITS DUG TO LACK OF OIL PENETRATION.

REVIEWED 7 W DATE 5/3/90
 ACE 1852222

SEGMENT STI. SI 013

STREAM 251-81-812

DATE 5 / 1 / 90

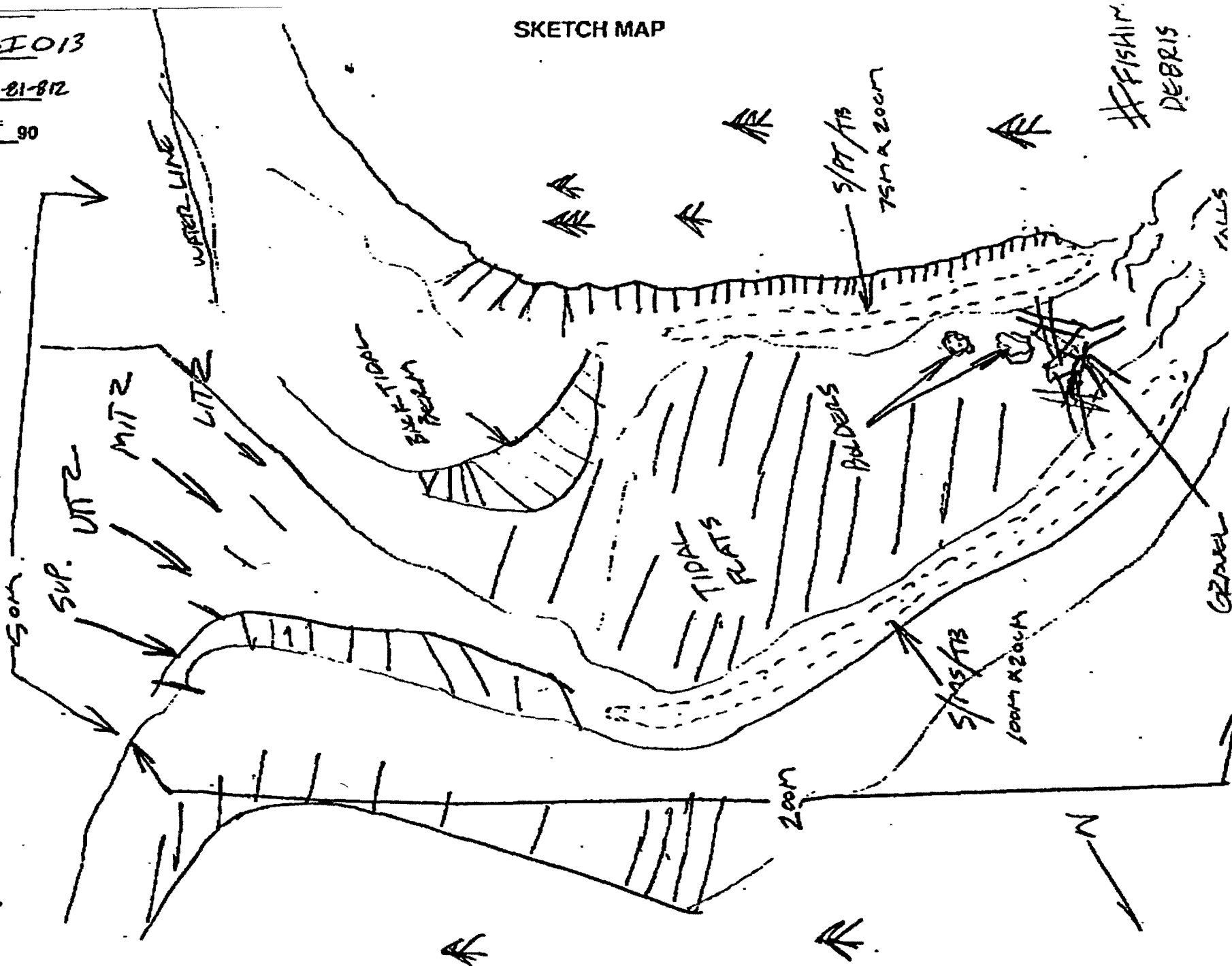
CHECKLIST

- ☐ N Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Bndry
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HSA/LA/VL
- ☐ SSL
- ☐ Photo Location(s)
- ☐ Profile(s)
- ☐ PH Location(s)
- ☐ Photo Location(s)

LEGEND

- 1 Δ
- PH - No Subsurface Oil
- 2 Δ
- PH - Subsurface Oil
- CT/C
- Continuous Distribution
- CT/D
- Broken Distribution
- CT/P
- Patchy Distribution
- CT/S
- Splashed Distribution
- eee
- Oiled Vegetation
- 1 $\Rightarrow$
- Photo location, direction, and number

SKETCH MAP



Oil Character Length (m): AP PO CV CT ST MS PT 87.5 TB 87.5 FL NO

REVISION 012400

ACE 1852223

16/05

Seg ID: SI-013 Subdiv: 251-81-8/2
Survey Date: 5/1/90 interim stream no.
Comments by: Ken Critchlow

A very light, scattered band of tarballs was observed in the upper ULTZ along both sides of the stream.

The intertidal biota was very healthy and productive. There were no ecological constraints, and no clear need for oil cleanup for ecological/fisheries reasons.

KR Critchlow

17/25
ANADSSAT

ADFG MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS SS DS TS AVS SCHA MMS PTA2 REGION: PWS KP, CI KAPMETHOD: Aerial Ground Boat3 DATE: 5/1/9016 HIGH TIDE TIMES: 121 TEAM RECORDER: E. WEISS4 START TIME: 124018 HIGH TIDE HTS: 122 OBSERVERS: M. GOODWIN, K. LARS
R. CRITCHLOW, D. Y5 STOP TIME: 132517 LOW TIDE TIMES: 150423 AGENCY: ADFG/ADNR/EXXON/LO6 SEGMENT #: SI01319 LOW TIDE HTS: .524 PHOTOS TAKEN: Y X

7 STATION #: _____

10 TIDE HT AT SURVEY: _____

Roll #: _____ Frames: _____

8 K-UNIT: K0101ebb Slack Flood Slack25 VIDEO TAKEN: Y X TAPES: _____

9 STAT AREA: _____

20 USCG QUAD: AF09NAK

Starts: _____ Ends: _____

10 LAT: _____

11 LONG: _____

26 SAMPLES TAKEN: Y X Number

12 SOURCE: Map Loran

Oil _____

13 LOCATION: ANDREAN BAY, SHUYAIL ISLAND

Sediment _____

14 DESCRIPTION: _____

Biological _____

Water _____

EXTENT OF OIL

	SHORELINE				STREAM			
	L	M	H	S	L	M	H	S
27 SURFACE COVERAGE								

36 CATALOGED ANAD. FISH SKELET 2X

28 SURFACE THICKNESS							
29 PENETRATION							

37 CATALOG #: 251-81-81238 STREAM NAME: ANDREAN BAY CREEK30 OVERALL OIL IMPACT: N VL L M H39 OIL IN STREAM BED? Y X31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain40 OIL ON STREAM BANKS? X N

32 OILED DEBRIS: Y N

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

42 OIL WITHIN 1 MILE OF STREAM? Y N

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

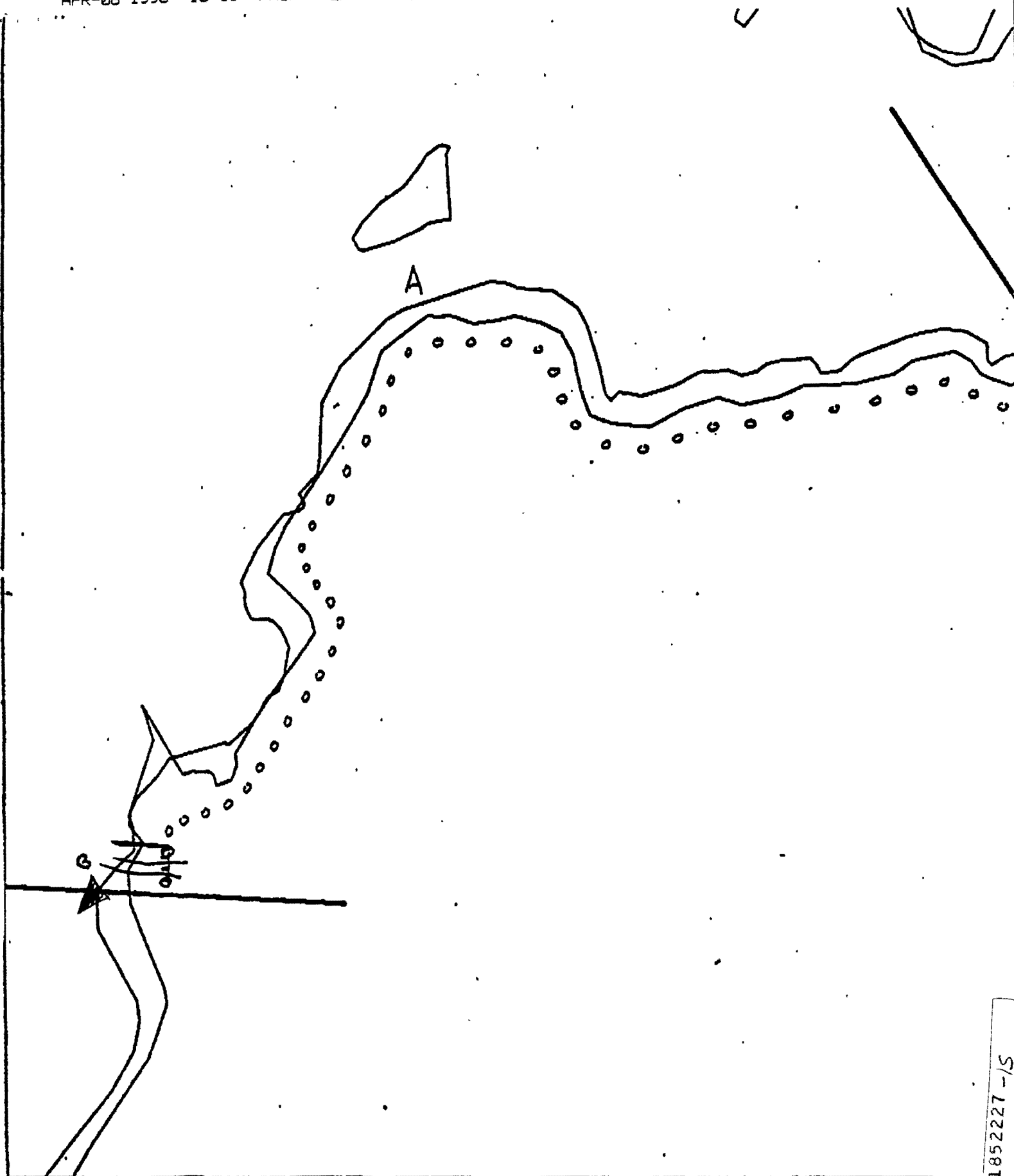
Where: _____

43 ANADROMOUS FISH PRESENT? Y N

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

COMMENTS: SPORADIC TAR PATTIES AROUND COVE MORE ON
SOUTH SHORE.

ACE 1852225



XXXX Wide

//// Medium

---- Narrow

TTTT Very Light

SI-13

ADEC Segment Length: 1971m

Map Key: KOD-171a

Name: Shaa Penland

Date: 4-4-90

ACE 1852227 -15

ANADROMOUS FISH STREAM EVALUATION

Andrean Bay Creek

SEGMENT ST/K02-01-SI-013 STREAM NO: 251-81-812 DATE 5/1/90

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)

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: Rachel Jan-Dan DATE: 5/25/90

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 Removal	<u> </u> Beach Cleaner
	<u> </u> Other (see comments)

COMMENTS:

TAG COMMENTS:

TAG APPROVAL DATE: 5/24/90
ADEC Art Weimer
EXXON Andy Tate
NOAA Bill Wescott
USCG Mr. J. Hall

FOSC [Signature] DATE: 5/31/90

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
Anchorage Habitat

DATE: 5/8/90

No. Pages: 9
(including this page)

FROM: J. BARNHART
Kodiak Habitat

MESSAGE: Andrean Bay Creek, Andrean Bay, Shuyak Island.
AFS 251-81-812
Segment SIO13

FIELD SHORELINE COMMENT SHEET

10/25

ASC# (ANDREAN BAY CREEK)

SEGMENT ST / SI-013 SUBDIVISION: 251-81-812 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

NO TREATMENT RECOMMENDED DUE TO SPORADIC NATURE OF IMPACT AND WEATHERED CONDITION OF OIL AND LOCATION HIGH ON BANKS. DON'T BELIEVE THIS IMPACT TO BE HAZARDOUS TO FISHERIES.

LAND MANAGER → ADNR

NAME Mike Godwin SIGNATURE Mike Godwin

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

NO TREATMENT RECOMMENDED DUE TO MINIMAL OIL PRESENT AND IMPACT TO LAND AND RECREATIONAL VALUES.

OPERATIONS FIELD NOTES

See Back for Instructions

11/25

SEGMENT ID ANAD SE-013 (ANDREAH BAY CREEK)
 STREAM ID # 251-81-812
 ANNOTATED MAP INCLUDED Y/N

DATE 5-1-90
 NAME DARRYL VOLES
 TEAM # 14

SURFACE OIL	Quantities in Meters			None	Treatment Recommendation					
	Length	Width	Area		Bioremediation		Tilling		Spot Hot Water	
Wide Band	SEE BELOW			✓	Y/N	% Treat	Y/N	% Treat	Y/N	% Treat
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
	Mousse Tarballs	Oiled Veget	Cleanup Debris	Length	Width	
Pocket #1	✓			100	20 CM	< 1
Pocket #2	✓			75	20 CM	< 1
Pocket #3						
Random/Continuous						

Pickup Y/N	Manday Estimate
N	-
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? 2 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.
PATTIES ARE VERY SPORADIC IN THE UPDR 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 1852249

ANAD

SSAT DATA ENTRY FORM

PAGE 1 OF 2GENERAL DATA

12/25

SEG ID: SI-013 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: 50 OIL CATEGORY: W — M — N — VL 175 NO — U —

SURFACE DATA

SURFACE SEDIMENT: BRK — BLD 20 COB 20 PEB 20 GRN 20 SAN 20 MUD — VEG —

CHAR #: 1 OIL CHAR: MS OIL DIST: CONT — BRKN — PTCH — SPLH X
 OIL CLR: DBR FILM CLR: TL TIDAL ZONE: SU — UI X MI — LI —

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

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 —

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 —

No Pits Dug

ANAD
SSAT DATA ENTRY FORM

13/25

SUBSURFACE DATA

PAGE 2 OF 2

SEGMENT ID: SI-013 SUBDIV: 251-81
812

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 1852251

SHORELINE OILING SUMMARY (ANAD)

REVISION NO. 04/13/90

OG CAL LARSON USCG DREHER, CWE SEGMENT ST/ SI. 013 1A/25
 BIO KEN CRITCHLOW LAND REP MIKE GOODWIN STREAM 251-81-812 (OF)
 EXXON DARRYL YOE ADFG ED. WEISS TIME 12:32 1001 25
 TEAM NO. 14 TIDE LEVEL -0- FT. DATE 5 / 1 / 1990
 EST. SUBDIVISION LENGTH: 50 m ☐ Sun ☐ Clouds ☐ Fog ☒ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R % B 20 % C 20 % P 20 % G 20 % S 20 % M % V %
 SLOPE: Lang % Hang % Vert % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W m M m N m VL 175 m NO m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	IC	IB	IP	IS	BR	BL	FW	GY	SL	DBR	TL	LR	SU	UI	M	U
ASPHALT PAVEMENT																
POOLED																
COVER																
COAT																
STAIN																
MOUSSE				✓							✓			✓		
PATTIES																
TARBALLS				✓		✓	✓							✓		
FILM																
NO OIL													✓		✓	✓

PAVEMENT H F S sq. m by cmPATTIES / TARBALLS 3 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-CH)	BELOW		OIL / FILM COLOR								PIT ZONE				A N A	SHEEN (Y/N)	⚠	SURFACE - SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UO	UC	BR	BL	FW	GY	SL	DBR	TL	LR	SU	UI	M	U				

COMMENTS NO PITS DUG TO LACK OF OIL PENETRATION.REVIEWED DATE

ACE 1852252

OG CALLARSON

SEGMENT STI SI 013

STREAM 251-81-812

DATE 5/1/90

CHECKLIST

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

LEGEND

1 ▲

Pit - No Subsurface Oil

2 ▲

Pit - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

Splashed Distribution

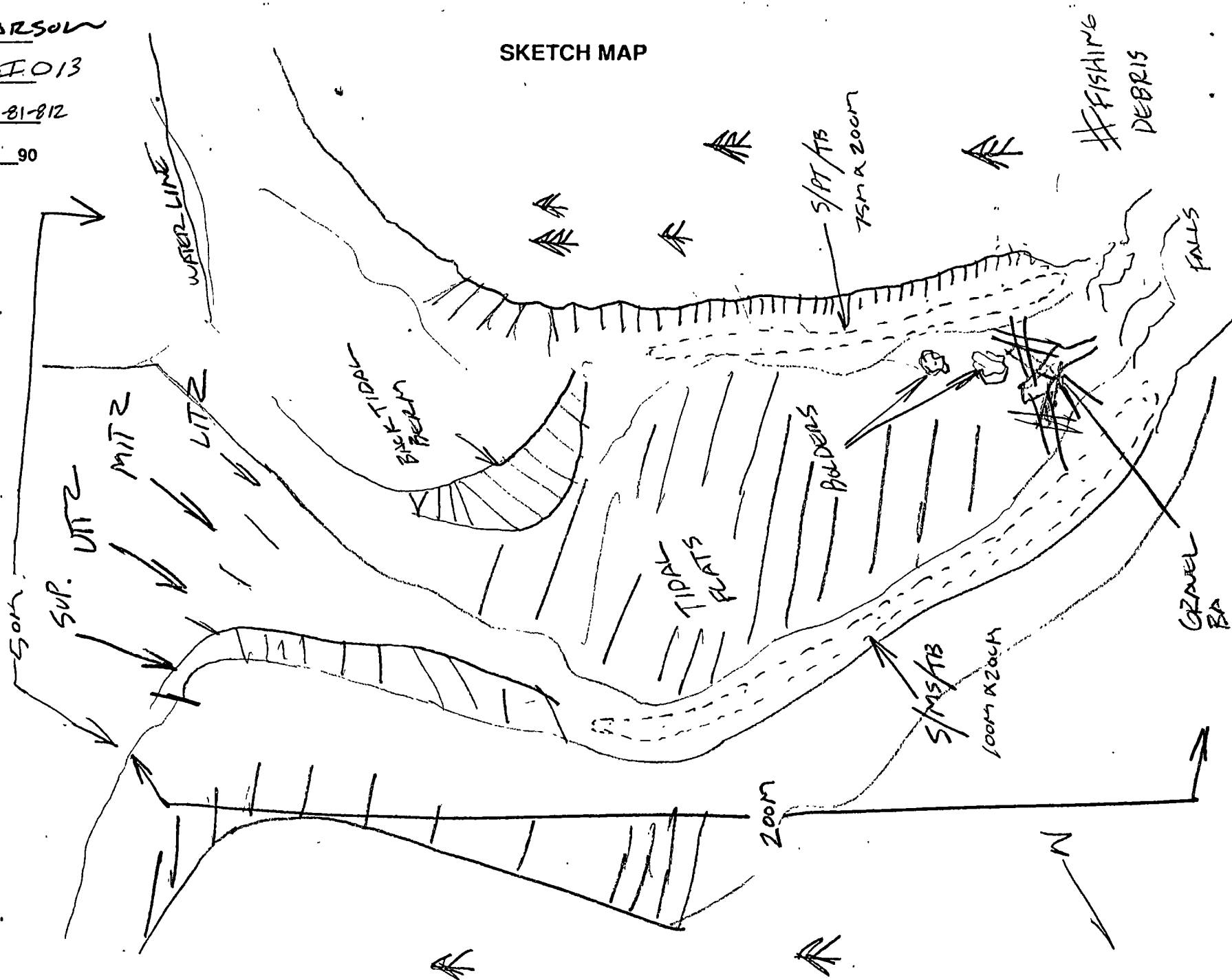
eee

Oiled Vegetation

1 ➔

Photo location, direction, and number

SKETCH MAP



Oil Character Length (m): AP _____ PO _____ CV _____ CT _____ ST _____ MS _____ PT 87.5 TB 87.5 FL _____ NO _____

REVISION: 03/24/90

ACE 1852253

16/25

Seg ID: SI-013 Subdiv: 251-81-812
Survey Date: 5/1/90 interim stream no.
Comments by: Ken Critchlow

A very light, scattered band of tarballs was observed in the upper UITZ along both sides of the stream.

The intertidal biota was very healthy and productive. There were no ecological constraints, and no clear need for oil cleanup for ecological/fisheries reasons.

KR Critchlow

17/25
ANADSSAT

ADF&G MULTI-ASSESSMENT DATA FORM

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

2 REGION: PWS KP, CI KAP

METHOD: Aerial Ground Boat

3 DATE: 5/1/90

15 HIGH TIDE TIMES: 1

21 TEAM RECORDER: E. WEISS

4 START TIME: 1240

16 HIGH TIDE HTS: 1

22 OBSERVERS: M. GOODWIN, K. LARSON

5 STOP TIME: 1325

17 LOW TIDE TIMES: 1504

23 AGENCY: ADFG/ADNR/EXXON/WWC

6 SEGMENT #: SI013

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:

20 USCG QUAD: AFOGNAK

Start: End:

10 LAT:

11 LONG:

26 SAMPLES TAKEN? Y N Number

12 SOURCE: Map Loran

13 LOCATION: ANDREAN BAY, SHUYAK ISLAND

14 DESCRIPTION:

Oil
Sediment
Biological
Water

EXTENT OF OIL

27 SURFACE COVERAGE

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

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 Low-lying Rocks Beach Cove
Lagoon Marsh

34 WAVE EXPOSURE: High Moderate Low

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

36 CATALOGED ANAD. FISH SREAM? Y

37 CATALOG #: 251-81-812

38 STREAM NAME: ANDREAN BAY CREEK

39 OIL IN STREAM BED? Y Y

40 OIL ON STREAM BANKS? Y N

41 OIL ON BEACH ADJACENT TO MOUTH? Y
(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 TAR PATCHES AROUND COVE MORE ON SOUTH SHORE.

ACE 1852255-4/15/90

STATE OF ALASKA

DEPARTMENT OF FISH AND GAME

STEVE COWPER, GOVERNOR

Rapifax 349-1723

323 RASPBERRY ROAD
ANCHORAGE, ALASKA 99518-1599
PHONE: (907) 344-0541KODIAK-ANAD SCAT
R-0101

RAPIFAX TRANSMITTAL SHEET

TO: Kec Modell...
Anchorage HabitatDATE: 5/8/90No. Pages: 9
(including this page)FROM: E. BARNHART
Kodiak HabitatMESSAGE: Anderson Bay Creek, Anderson Bay, Shuyalek Island
AFS 251-81-812
Segment 51013ALASKA DEPT. OF
FISH & GAME

MAY 08 1990

REGION II
HABITAT DIVISION

ACE 1852138+15

FIELD SHORELINE COMMENT SHEET

10/25

ASC# (ANDREAN BAY CREEK)

SEGMENT ST / SI-013 SUBDIVISION: 251-81-812 DATE 01 MAY 90

USCG

NAME Kerwin L. Dreher SIGNATURE CWO K. L. Dreher☒ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTEDADFG
ADEC → ~~ADNR~~NAME Edward W. Weiss SIGNATURE Edward W. Weiss☒ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTED

NO TREATMENT RECOMMENDED DUE TO SPORADIC NATURE
OF IMPACT AND WEATHERED CONDITION OF OIL AND LOCATION
HIGH ON BANKS. DON'T BELIEVE THIS IMPACT TO BE HAZARDOUS
TO FISHERIES.

LAND MANAGER → ~~ADNR~~ ADNRNAME Mike Godwin SIGNATURE Mike Godwin☒ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTED

NO TREATMENT RECOMMENDED DUE TO MINIMAL
OIL PRESENT AND IMPACT TO LAND AND RECREATIONAL
VALUES.

OPERATIONS FIELD NOTES

See Back for Instructions

 SEGMENT ID ANAD SE-013 (ANDREAH CREEK)
 STREAM ID # 251-81-812

 DATE 5-1-90
 NAME DARRY YONE
 TEAM # 14
ANNOTATED MAP INCLUDED Y10

SURFACE OIL	Quantities in Meters			None	Treatment Recommendation					
	Length	Width	Area		Bioremediation		Tilling		Spot Hot Water	
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	✓			100	20 CM		21	N	
"Pocket" #2	✓			75	20 CM		21	N	
"Pocket" #3									
Random/Continuous									

OILED LOGS <u>Y10</u>	OILING <u>H/M/L</u>	QUANTITY <u>L/M/S</u>	BURN <u>Y/N</u>
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 Is there Other Debris on the Beach? Y10 How Many Bags? 2 Is it mingled with the Oiled Debris Y10
LOGS & COMMERCIAL FISHING GEAR

GENERAL

Snow covering 2 % of the Supratidal Zone?Wave Exposure H/M/LAccess Limitations: GOOD ACCESS - LONG SHALLOW BAYSnare Boom/Pom Poms Recommended? NOWould the production Craft have to be relocated to complete work on this subdivision? Y10, # of Times 1

COMMENTS:

NO TREATMENT RECOMMENDED IN 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.

12/25

ANAD
SSAT DATA ENTRY FORM

PAGE 1 OF 2

GENERAL DATA

SEG ID: SI-013 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: 50 OIL CATEGORY: W — M — N — VL 175 NO — U —

SURFACE DATASURFACE SEDIMENT: BRK — BLD 20 COB 20 PEB 20 GRN 20 SAN 20 MUD — VEG —

CHAR #: 1 OIL CHAR: MS OIL DIST: CONT — BRKN — PTCH — SPLH X
OIL CLR: DBR FILM CLR: TL TIDAL ZONE: SU — UI X MI — LI —

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

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 —

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 —

13/25

ANAD
SSAT DATA ENTRY FORM

PAGE 2 OF 2

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 1852192 . . .

SHORELINE OILING SUMMARY (ANAD)

REVISION NO. 04/13/90

OG CAL LARSON USCG DREHER, CWE SEGMENT STI SI 013 14/25
 BIO KEN CRITCHLOW LAND REP MIKE GOODWIN STREAM 251-81-812 (OF)
 EXXON DARLYL YOE ADFG ED WEISS TIME 12:321001:25
 TEAM NO. 14 TIDE LEVEL -0- FT. DATE 5/1/90
 EST. SUBDIVISION LENGTH: 50 m ☐ Sun ☐ Clouds ☐ Fog ☒ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R % B 20 % C 20 % P 20 % G 20 % S 20 % M % V %
 SLOPE: Lang % Hang % Vert % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W m M m N m VL 175 m NO m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	IC	IB	IP	IS	BR	RW	SL	TL	LT	SU	U	M	U			
ASPHALT																
PAVEMENT																
POOLED																
COVER																
COAT																
STAIN																
MOUSSE																
PATTIES																
TARBALLS																
FILM																
NO OIL																

PAVEMENT H F S sq. m by cmPATTIES / TARBALLS 3 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	BR	RW	SL	TL	LT	SU	U	M	U							

COMMENTS NO PITS DUG TO LACK OF OIL PENETRATION.REVIEWED DATE

ACE 1852193

REVISION: 02/24/90

ACE 1852194

16/25

Seg ID: SI-013 Subdiv: 251-81-812
Survey Date: 5/1/90 interim stream no.
Comments by: Ken Critchlow

A very light, scattered band of tarballs was observed in the upper UITZ along both sides of the stream.

The intertidal biota was very healthy and productive. There were no ecological constraints, and no clear need for oil cleanup for ecological/fisheries reasons.

KR Critchlow

17/25
ANADSSAT

ADFG MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS ☒ DS ☐ TS ☐ AVS ☐ SCH ☐ MMS ☐ PTA2 REGION: PWS KP, CI ☒ KAPMETHOD: Aerial ☒ Ground ☐ Boat ☐

3 DATE: 5/1/90

15 HIGH TIDE TIMES: 1

21 TEAM RECORDER: E. WEISS

4 START TIME: 1240

16 HIGH TIDE HTS: 1

22 OBSERVERS: M. GOODWIN, K. LARSON
R. C. TCHLOW, D. YOL

5 STOP TIME: 1325

17 LOW TIDE TIMES: 1504, 1

23 AGENCY: ADFG/ADNR/EXXON/WW

6 SEGMENT #: SI013

18 LOW TIDE HTS: .5 1

24 PHOTOS TAKEN: Y ☒

7 STATION #: _____

19 TIDE HT AT SURVEY: _____

Roll #: _____ Frames: _____

8 K-UNIT: K0101

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

9 STAT AREA: _____

20 USCG QUAD: AFOGNAK

Starts: _____ Ends: _____

10 LAT: _____

11 LONG: _____

26 SAMPLES TAKEN? Y ☒ Number

12 SOURCE: Map Loran

011 _____

13 LOCATION: ANDREAN BAY, SHUYAK ISLAND

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								
30 OVERALL OIL IMPACT:	N	☒ VL	L	M	H			
31 OIL TYPE:	Pooled	Mousse	☒ Tar	Asphalt	Sticky	Stain		
32 OILED DEBRIS?	Y	N						

35 CATALOGED ANAD. FISH STREAM? ☒

37 CATALOG #: 251-81-812

38 STREAM NAME: ANDREAN BAY CREEK

39 OIL IN STREAM BED? Y ☒40 OIL ON STREAM BANKS? ☒ N41 OIL ON BEACH ADJACENT TO MOUTH? Y ☒
(within 50 meters)

42 OIL WITHIN 1 MILE OF STREAM? Y N

Where: _____

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

43 ANADROMOUS FISH PRESENT? Y N

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

COMMENTS: SPORADIC TAR PATCHES AROUND COVE MORE ON
SOUTH SHORE.

Andrean Bay creek.

ADDENDUM: SUBDIVISION CONSTRAINTS

SEGMENT K01-01-SI-013 SUBDIVISION A (1 of 2)

WORK WINDOW

Manual Pickup

OPEN

ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

1A,1B Salmon Stream

ADF&G catalogued anadromous stream (251-82-812) is in Subdivision A. No constraint to manual pickup.

OTHER ECOLOGICAL CONSIDERATIONS

Avoid any unnecessary disturbance or damage to uncolled biota and substrate.

FOSC

A. Jawaghi

Date

6-15-90

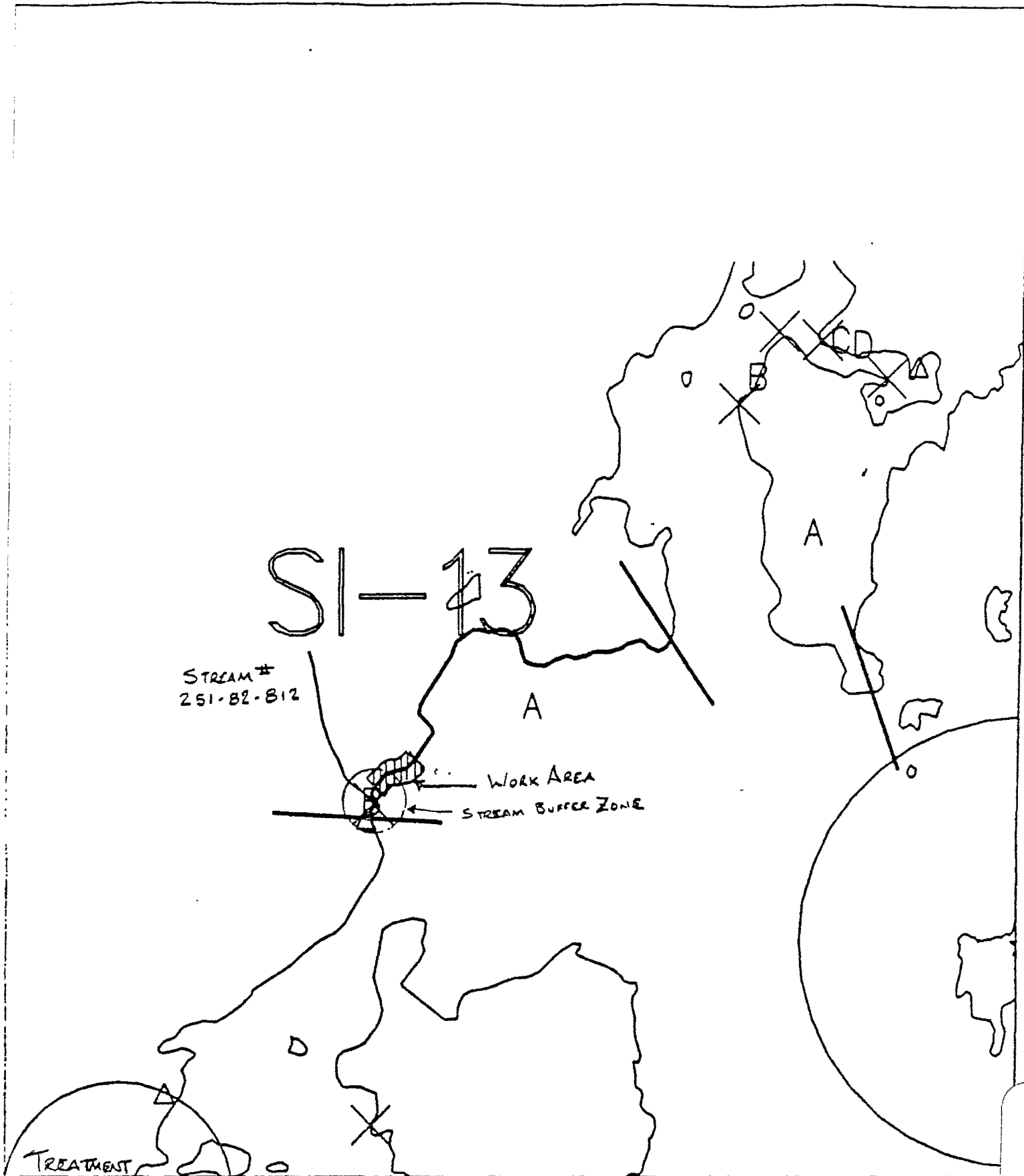
Prepared by

J.P. Phillips

Date

6/15/90

ACE 1852208+15



Exxon Company, USA
Map Key: KOD-SI-13

ECOLOGY MAP
SEGMENT K1-1 SI-13
SUBDIVISION A (1 of 2)
METERS

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

ACE 1852209

SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-013 SUBDIVISION A (1 OF 2) DATE 4/3/90

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)

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

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 J. Hoffman DATE: April 14, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 0 m: No Oil 1636 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

<u> </u> No Treatment Recommended	<u> </u> Snare/Absorbent Booms
<u>X</u> Treatment Recommended	<u> </u> Oil Snares (pom poms)
<u>X</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: Recommend manual pick up of oiled plastic, between 5/16 and 7/9.

^{CONSTRAINTS}
SEE ADDENDUM dated 6/15/90 JPD

TAG COMMENTS:

TAG APPROVAL DATE: 4/14/90

ADEC John R. Ruel

EXXON Andy R. Ruel

NOAA Bur/Wescott Ruel

USCG G.A. REITER

FOSC:

DATE: 4-22-90

ACE 1852210-15