

ASC NUMBER: 242-20-10160 SEGMENT NUMBER: WB-003 YR CATALOGED:

LOCATION: OCKP Windy Bay

STREAM NAME: Windy Right Ck

DIAK K-UNIT:

USGS QUADRANGLE: Seldovia A-5

SHORELINE TYPE: BEACH, low lying Rocks

WAVE EXPOSURE: Low

LOCAL STREAM #:

ALL SEGMENTS:

LATITUDE: 59 14 7

LONGITUDE: 151 33 34

LEGAL:

ASC NUMBER: 242-20-10160

SURVEY TYPE: Prescreening

METHOD: Foot

DATE: 4/7/90

START TIME: 0825

STOP TIME: 0925

TEAM RECORDER: Doug Hill

OBSERVERS: Lee Glenn

AGENCY(IES): ADF46

PHOTOS TAKEN? Y

Roll #: 9000H001

Frames: 11, 12, 13, 14

VIDEO TAKEN? Y

Tape Number: 90LPG 022H

Counter Start: 1699 → 1845

SAMPLES TAKEN? N

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

	LENGTH m	WIDTH m	M2	%	THICK cm	PEN cm	OIL TYPE
SITE 1	152m	1.5m	228m	50%	2.15cm	7.7cm	TB, PT, OR, ST, CT, CV
SITE 2	15m	15m	225m	5%	2.15cm	1.5cm	TB, CV
SITE 3	46m	1m	46m	5%	2.5cm	5cm	AP, TB, ST, CT, PT, OR
SITE 4	152m	18m	2736m	5%	2.5cm	5cm	AP, TB, ST, CT
SITE 5	274m	1m	274m	15%	1.5cm	2.5cm	AP, TB, ST, CT

OVERALL OIL IMPACT: M

OIL IN STREAM CHANNEL? Y

OIL ON BEACH WITHIN 50M OF STREAM MOUTH? Y

SUBSTRATE

Bedrock 10%	Granule
Boulder	Sand 20%
Cobble 30%	Silt 10%
Pebble 30%	Veget.

SPECIES					
COUNT					

COMMENTS: See Attached MAD FORM

AP, OR, and PT observed from stream mouth to the flowage that cuts through the beach to the west (10-20% coverage of a 15' wide swath running laterally along the beach. This oil is not readily noticeable as it is beneath the cobble.

The 1989 crew created rock piles along the length of this beach. The piles were created to get at the oil beneath the cobbles/boulders. The piles were no where to be found on this survey - the winter surf distributed these rocks evenly over the beach.

OK \* Site 1A-1 of 1989 A. F. H. A.  
\* see field log for further info

ACE 10459951 K/S/C

GROUP A

ADF&G MULTI-ASSESSMENT DATA FORM

Prescreening

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

METHOD: Aerial  Ground Boat

3 DATE: 4/7/90 15 HIGH TIDE TIMES: 1 21 TEAM RECORDER: Doug Hill

4 START TIME: 0825 16 HIGH TIDE HTS: 1 22 OBSERVERS: Lee Gilman

5 STOP TIME: 0925 17 LOW TIDE TIMES: 0702.1 23 AGENCY: ADF&G

6 SEGMENT #: WB-003 18 LOW TIDE HTS: 1.3 1 24 PHOTOS TAKEN:  N

7 STATION #: 19 TIDE HT AT SURVEY: Roll #: 90-00H-001 Frames 11, 12, 13

8 K-UNIT: Ebb Slack  Flood Slack 25 VIDEO TAKEN: Y  TAPE#: Starts: Ends:

9 STAT AREA: 242-20 20 USCG QUAD: SELDOUJA A-5

10 LAT: 59° 13' 80" 11 LONG: 151° 30' 90" 26 SAMPLES TAKEN?  Y  N Number

12 SOURCE:  Map Loran Oil

13 LOCATION: AFS# 242-20-10160; HEAR of Windy Bay Sediment

14 DESCRIPTION: North Shore, Right Hand Creek Biological

Water

EXTENT OF OIL

	SHORELINE				STREAM			
	L	W	H <sup>2</sup>	%	L	W	H <sup>2</sup>	%
27 SURFACE COVERAGE								
28 SURFACE THICKNESS								
29 PENETRATION								
30 OVERALL OIL IMPACT:	N	VL	L	M	H			

36 CATALOGED ANAD. FISH SREAM?  Y N

37 CATALOG #: 242-20-10160

38 STREAM NAME: Windy Bay Right 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

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 10 Cobble 30  
Gravel 30 Sand 20 Mud/silt 10

43 ANADROMOUS FISH PRESENT?  Y N

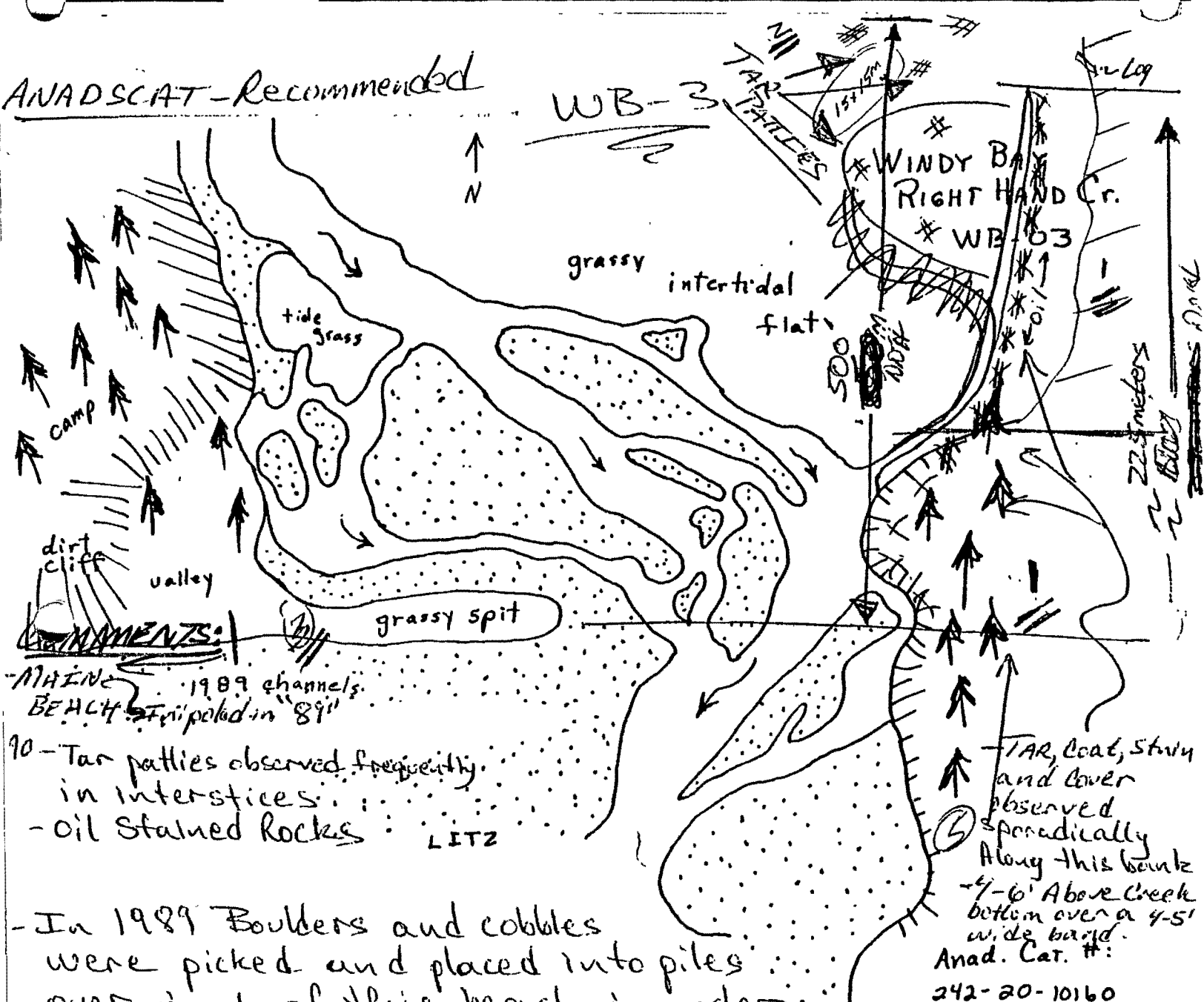
44 ANADROMOUS FISH OBSERVATION

Species	Aerial	Ground
Chum? FRY		60

COMMENTS: Chum, Pink and Coho River, Flats used by other sea and River, moose, ~~and~~ Migratory waterfowl utilize this area, Bald Eagles frequent (nest within 1/2 mile). Eelgrass and clam bed at mouth of stream. cont'd →

FRAME(S) 11, 12, 13 — Sorbent boom left on flat DESCRIPTION from 1989

ANADSCAT - Recommended



1989 channels  
 BEACH: Fringed in '89"  
 10 - Tar patties observed frequently  
 in interstices  
 - oil stained rocks LITZ

TAR, coat, skin  
 and cover  
 observed  
 sporadically  
 Along this bank  
 -4-6' Above creek  
 bottom over a 4-5'  
 wide band.  
 Anad. Cat. #: 242-20-10160

In 1989 Boulders and cobbles were picked and placed into piles over much of this beach in order to get at the heavy pooled oil beneath and in the interstices. Crews were later told to cease moving rocks (changing the beach morphology) - As NOAA/Exxon stated concerns that it could cause an erosional problem. ACE 1941225

In 1990 none of the cairn/graveyard-like piles were evident - only a uniform-random natural looking

ACE 10459953

GROUP A

ADF&G MULTI-ASSESSMENT DATA FORM

Prescreening

1 SURVEY TYPE: BS  DS TS AVS SCHA MMHS PTA 2 REGION: PWS  KP,C1 K,AP

METHOD: Aerial  Ground  Boat

3 DATE: 4/7/90 15 HIGH TIDE TIMES: 1 21 TEAM RECORDER: Doug Hill

4 START TIME: 0825 16 HIGH TIDE HTS: 1 22 OBSERVERS: Lee Gilean

5 STOP TIME: 0925 17 LOW TIDE TIMES: 0702 1 23 AGENCY: ADF&G

6 SEGMENT #: WB-003 18 LOW TIDE HTS: 1.3 1 24 PHOTOS TAKEN:  N

7 STATION #: \_\_\_\_\_ 19 TIDE HT AT SURVEY: \_\_\_\_\_ Roll #: 90-004-001 Frame: 11, 12, 13

8 K-UNIT: \_\_\_\_\_ Ebb Slack Flood Slack 25 VIDEO TAKEN: Y  TAPE#: \_\_\_\_\_

9 STAT AREA: 242-20 20 USCG QUAD: SELDONIA A-5 Start: \_\_\_\_\_ End: \_\_\_\_\_

10 LAT: 59° 13' 80" 11 LONG: 151° 30' 90" 26 SAMPLES TAKEN?   N Number

12 SOURCE:  Map Loran 011 \_\_\_\_\_

13 LOCATION: AFS#242-20-10160; HEAR of Windy Bay Sediment \_\_\_\_\_

14 DESCRIPTION: North Shore, Right Hand Creek Biological \_\_\_\_\_

Water \_\_\_\_\_

EXTENT OF OIL

	SHORELINE				STREAM				
	L	W	M <sup>2</sup>	%	L	W	M <sup>2</sup>	%	
27 SURFACE COVERAGE									
28 SURFACE THICKNESS									
29 PENETRATION									
30 OVERALL OIL IMPACT:	N	VL	L	M	H				

36 CATALOGED ANAD. FISH SREAM?  N

37 CATALOG #: 242-20-10160

38 STREAM NAME: Windy Bay Right Creek

39 OIL IN STREAM BED?  N

40 OIL ON STREAM BANKS?  N

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

42 OIL WITHIN 1 MILE OF STREAM?  N

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 10 Cobble 30  
Gravel 30 Sand 20 Mud/silt 10

Where: \_\_\_\_\_

43 ANADROMOUS FISH PRESENT?  N

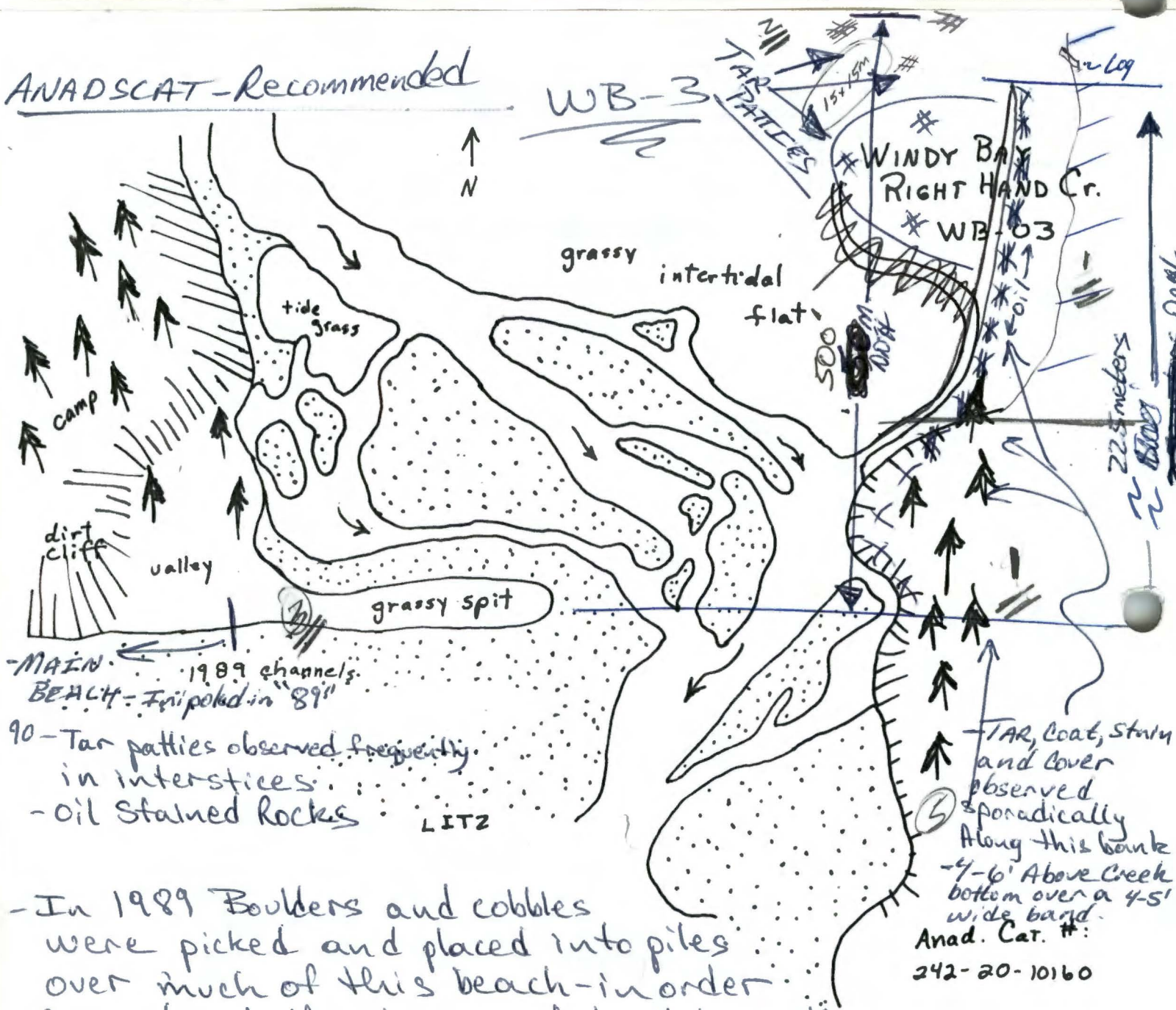
44 ANADROMOUS FISH OBSERVATION

Species	Aerial	Ground
<u>Chum?</u>		<u>60</u>
<u>FAY</u>		

COMMENTS: Chum, Pink and Coho River, Flats used by after/sea and River, Moose, Migratory waterfowl utilize this area, Bald Eagles frequent (nest within 1/8 mile). Eelgrass and clam bed at mouth of stream.

FRAME(S) 11, 12, 13 - Sorbent boom left on flat DESCRIPTION from 1989

ANADSCAT - Recommended



- MAIN BEACH - Tripiked in '89'
- 90 - Tar patties observed frequently in interstices.
- oil stained rocks LITZ

- In 1989 Boulders and cobbles were picked and placed into piles over much of this beach - in order to get at the heavy pooled oil beneath and in the interstices. Crews were later told to cease moving rocks (changing the beach morphology) - As NOAA/Exxon stated concerns that it could cause an erosional problem.

In 1990 none of the cairn/graveyard-like piles were evident - only a uniform-random natural looking beach was observed

FIELD SHORELINE COMMENT SHEET

SEGMENT AS / WB-3 SUBDIVISION: A SITE: 01 DATE 08/08/90

SCG

NAME AEC Vandepels SIGNATURE AEC Vandepels

YES  NO PRIORITY SITE FOR REASSESSMENT IN 1991

REASON: This beach is clean. No more work or reassessment.

**ADEC**

NAME CLARA S. CROSBY SIGNATURE Clara S. Crosby

YES  NO PRIORITY SITE FOR REASSESSMENT IN 1991

REASON: No treatment suggested @ this time.

**LAND MANAGER**

NAME Patrick Noeman SIGNATURE Patrick Noeman

YES  NO PRIORITY SITE FOR REASSESSMENT IN 1991

REASON: all significant oiling found in the spring survey was picked up. no new oil found.

**EXXON**

NAME Jon Czarnicki SIGNATURE Jon Czarnicki

YES  NO PRIORITY SITE FOR REASSESSMENT IN 1991

REASON: Looks good.

ACE 10459954 +/S

REVISION NO. 7/28/90

ACE 1941257 +/S

# ASAP SHORELINE OILING SUMMARY

TEAM NO. 04 EXXON Jon Czarnecki SEGMENT AS/ WB-3  
 OG Rich Marty USGS USCG AEC Vandepols SUBDIVISION A  
 ADEC Clara Crosby LAND REP Pat Neriman (P.Gr) TOTAL NO. SITES 1  
 DATE 08 / Aug / 90 TIME 08:20 to 08:45 TIDE LEVEL -1' to -1.75'  
 TOTAL EST LENGTH OF SHORELINE SURVEYED: 1142 m  
 SURVEYED FROM:  Foot  Boat  Helo WEATHER:  Sun  Clouds  Fog  Rain  Snow  
 OIL CATEGORY LENGTH: W — m M — m N — m VL 1060 m NO 82 m US — m

## SURFACE OIL

### SITE 1

### SITE 2

### SITE 3

CHARACTER	DISTRIBUTION				OILED ZONES			
	/C	/B	/P	/S	SU	UI	MI	LI
ASPHALT								
S.O.R.	—	—	—	X	—	X	—	—
POOLED								
COVER								
COAT								
STAIN								
MOUSSE	—	—	—	X	—	X	—	—
PATTIES/T.B.	—	—	—	X	—	X	—	—
FILM	—	—	—	X	—	X	—	—
NO OIL					X			X
EST. SITE LENGTH					1142			

DISTRIBUTION				OILED ZONES			
/C	/B	/P	/S	SU	UI	MI	LI

DISTRIBUTION				OILED ZONES			
/C	/B	/P	/S	SU	UI	MI	LI

## SUBSURFACE OIL

SITE NO.	PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER				OILED INTERVAL (CM-CM)	CLEAN BELOW (Y/N)	PIT ZONE				SURFACE-SUBSURFACE SEDIMENTS
			OP	OR	OF	NO			SU	UI	MI	LI	
NO	PITS						.						
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Photographs: ASAP-04-  
 Roll No. —CC  
 Frames —

COMMENTS *Oiling was quite light throughout the Subsegment.*

ACE 10459955

OG Ready Signal

SEGMENT O, WB-3

SUBDIVISION A

DATE 1/6/90

CHECKLIST

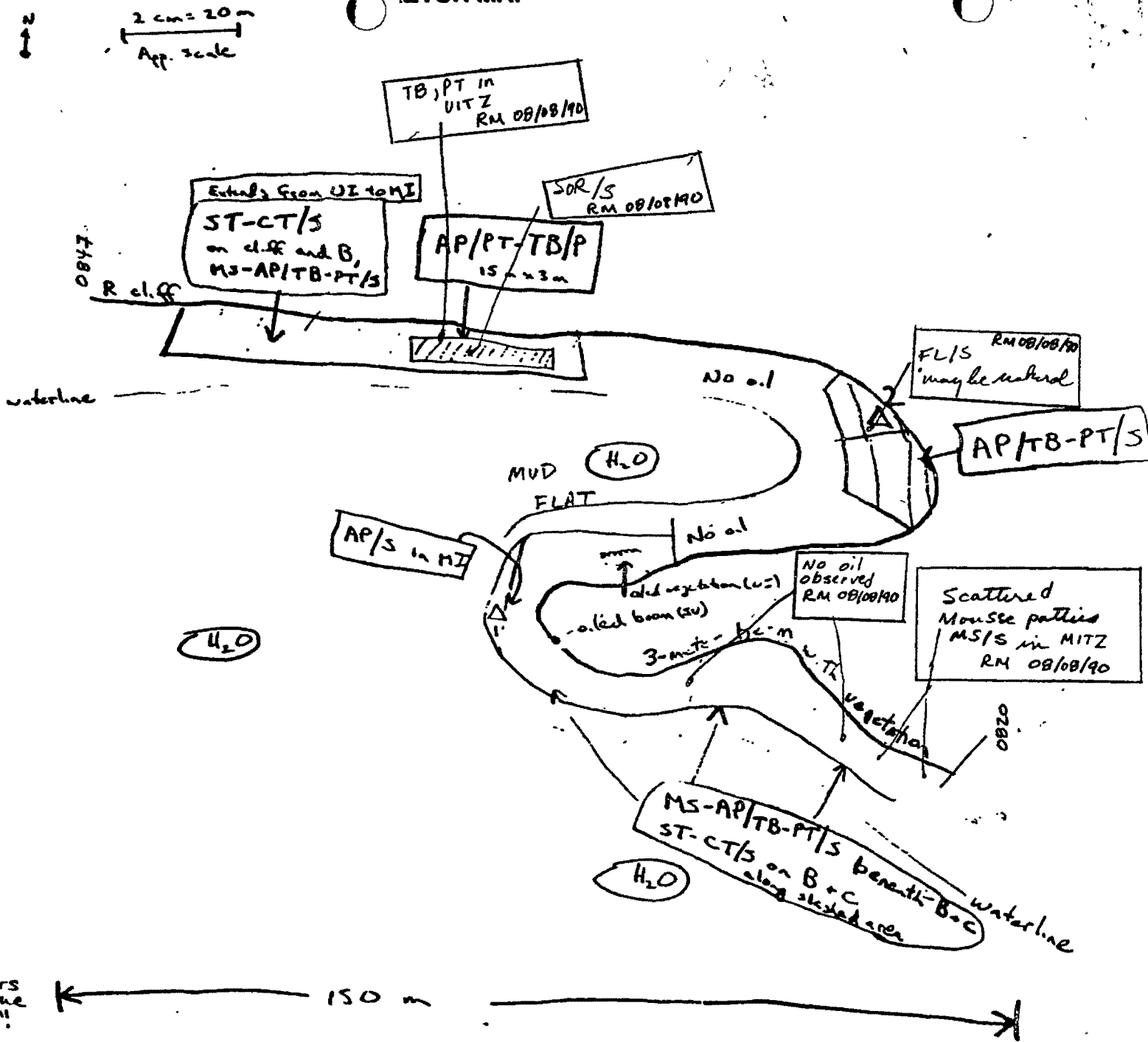
- N Arrow
- Approx. Scale
- Seg/Sub Bndry
- Oil Dist.
- Width
- Length
- % Cover
- Substrate Character
- Est. H/W/L/W
- SSL
- Profile Location(s)
- Profile(s)
- P/I Location(s)
- Photo Location(s)

LEGEND

- 1  $\Delta$
- PI - No Subsurface Oil
- 2  $\Delta$
- PI - Subsurface Oil
- CT/C
- Continuous Distribution
- CT/B
- Broken Distribution
- CT/P
- Patchy Distribution
- CT/S
- Splashed Distribution
- $\rightarrow$
- Oiled Vegetation
- 1  $\rightarrow$
- Photo location, direction, and number

NOTE: Scale appears to be off on the SSAT base "map".

ETCH MAP



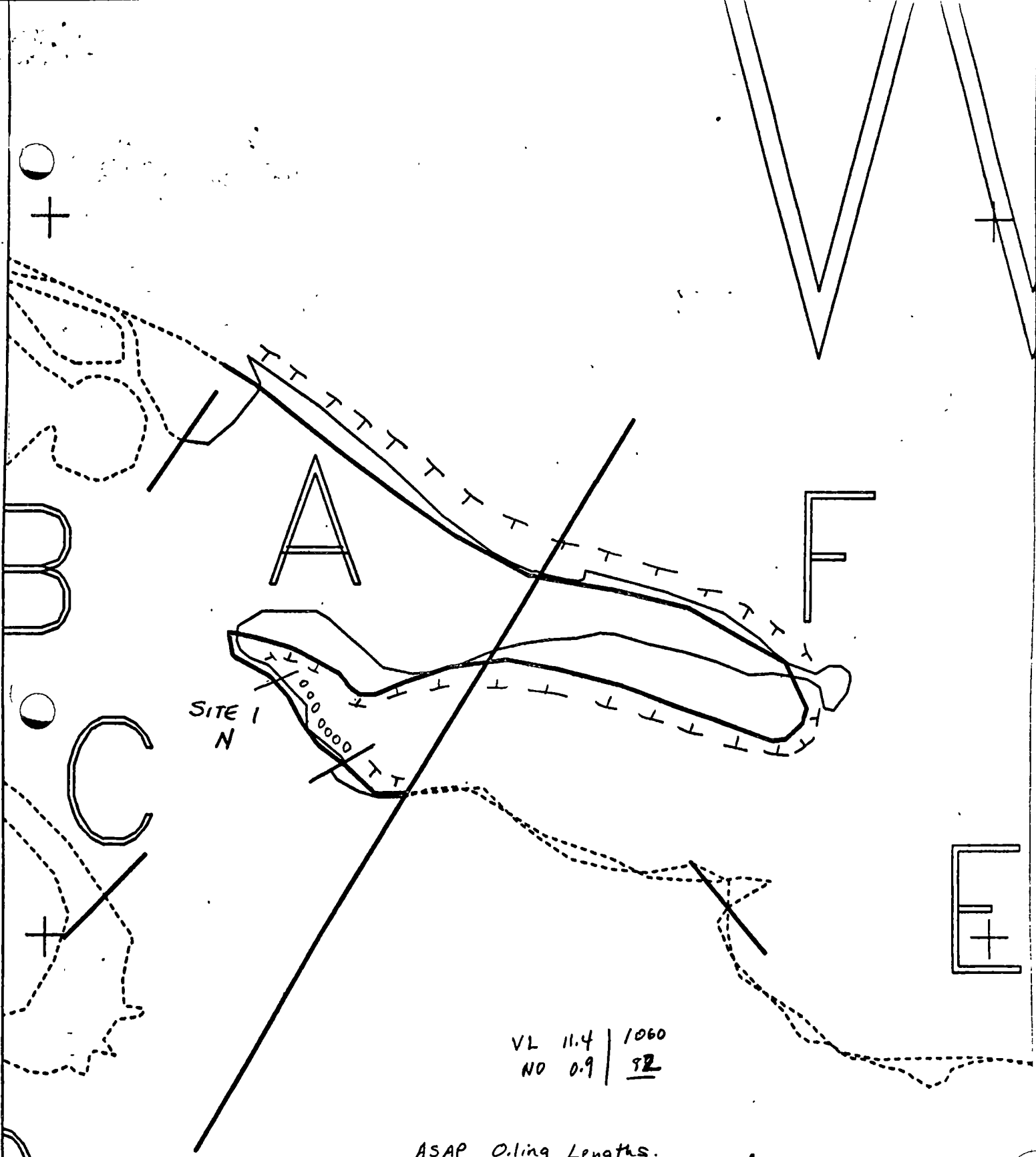
ACE 1941259

ACE 10459956



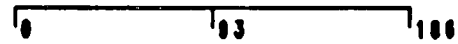


Oil Character Length (m): AP PO CV CT ST MS PT TB 200 FL 27 NO 30 sor 50 } lengths based on SSAT scale

REVISION 03/24/90



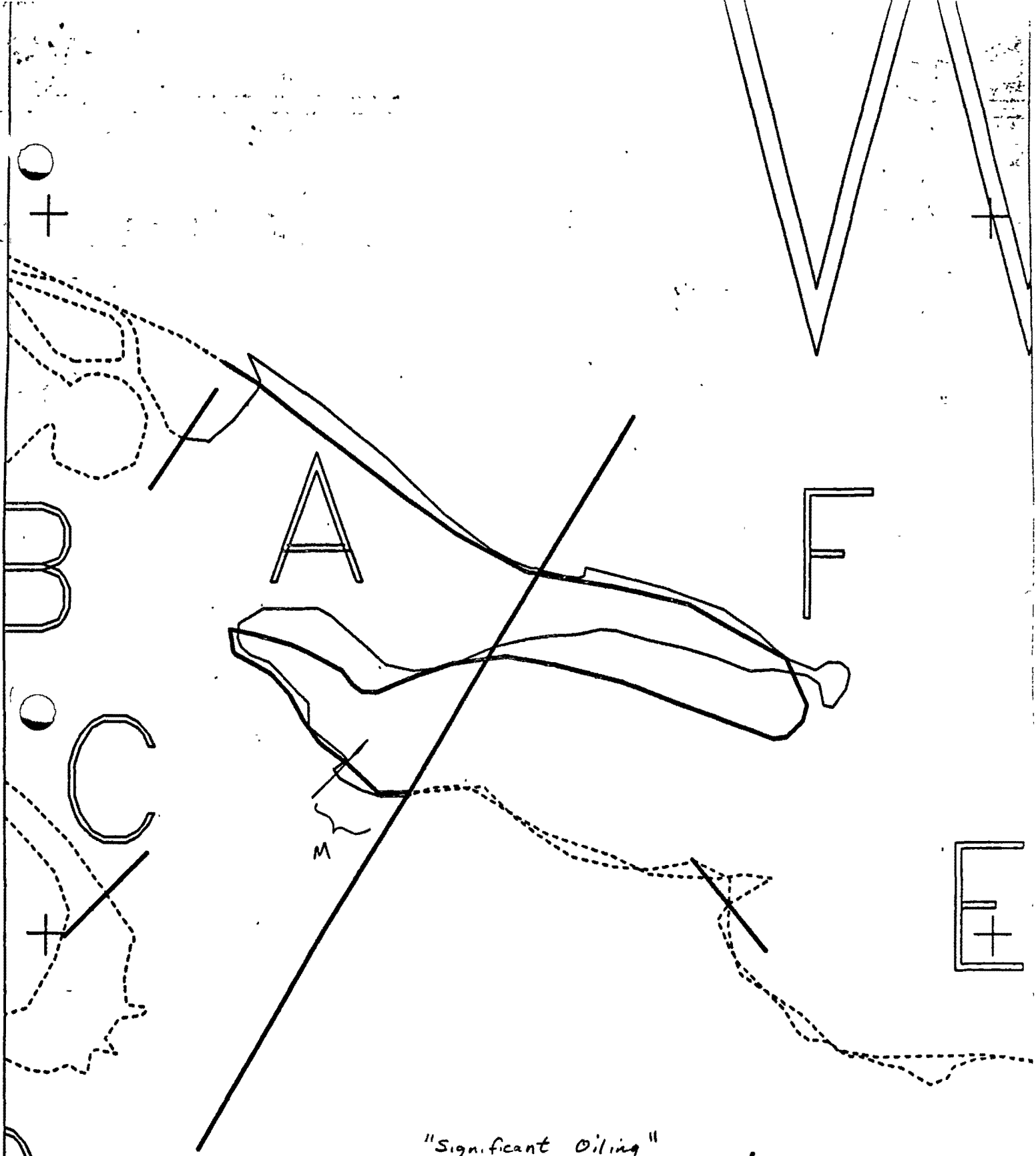


ASAP Oiling Lengths.

<p>XXXX Wide   Medium   Narrow  TTTT Very Light  0000 No Oil</p>	<p><b>WB-3 A</b>  ADEC Subsegment Length: 1142m  <b>METERS</b></p> <div style="text-align: center;">  <p>0                      100                      100</p> </div> <p>AK State Plane Zone 4    1:3686  nwb-3a</p>	<p>Subdivision Field Map  Map Key: KENWB-3A  Name: <u>R. Marty</u>  Date: <u>08/08/90</u>  Data Entered:</p>	 
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ACE 1941260

ACE 10459957



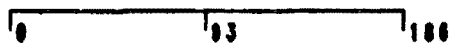
"Significant Oiling"

XXXX Wide  
 /// Medium  
 ○ - Narrow  
 TTTT Very Light  
 0000 No Oil

WB-3 A

ADEC Subsegment Length: 1142m

METERS



AK State Plane Zone 4 1:3660  
 sub-3a



Subdivision Field Map

Map Key: KENWB-3A

Name:

ACE 10459958 -15

Date:

Date Entered:

ACE 1941261 -15

SEGMENT ST 23-3

SUBDIVISION 3

DATE 4 1 90

CHECKLIST

- N Assoc
- Approx. Scale
- Seg/Sub Bathy
- Oil Out
- Width
- Length
- % Cover
- Substrate Character
- Est. HAZ/L/W
- SSI
- Profile Locator(s)
- Profile(s)
- Pit Locator(s)
- Photo Locator(s)

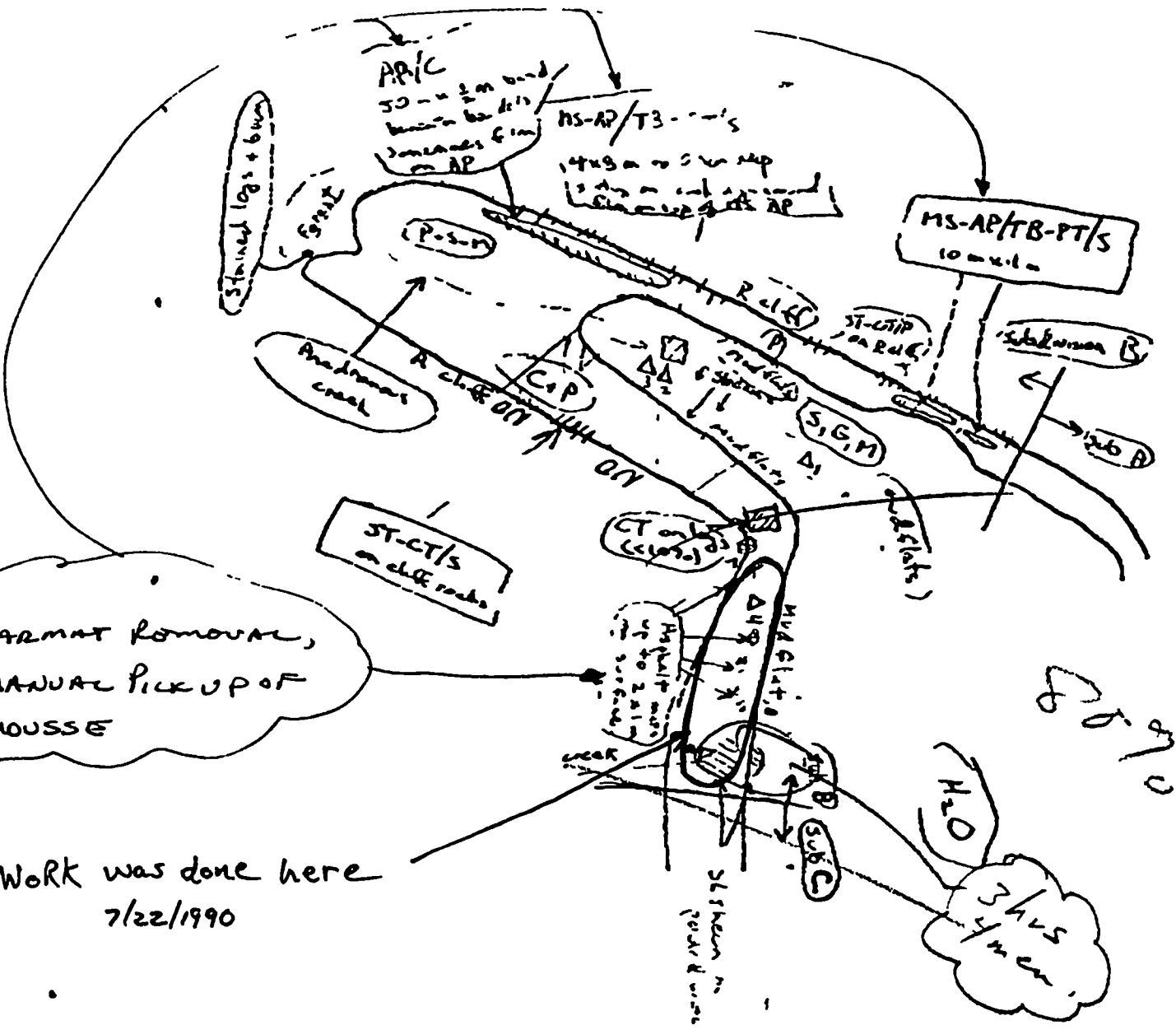
LEGEND

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

ACE 10459959 +/S

ACE 1941240 +/S

SKETCH MAP



Work was done here  
7/22/1990

Windy Bay WB 30 E P Egan 7/22/1990 pg 3

PHOTO/VIDEO DOCUMENTATION

PHOTOGRAPHS: ROLL # \_\_\_\_\_ FRAME(S): \_\_\_\_\_ REASON: \_\_\_\_\_

VIDEO: TAPE # \_\_\_\_\_ REASON: \_\_\_\_\_

COMMENTS

PROBLEMS: ENFORCEMENT ACTIVITIES, UPLAND CONT., ETC.  
(PLEASE NOTE IF PROBLEM WAS DISCUSSED WITH PROPER AUTHORITY,  
AND SUBSEQUENT RESPONSE.)

\_\_\_\_\_  
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OBSERVATIONS: TREATMENT EFFICIENCY, POSSIBLE IMPROVEMENTS, ETC. \_\_\_\_\_

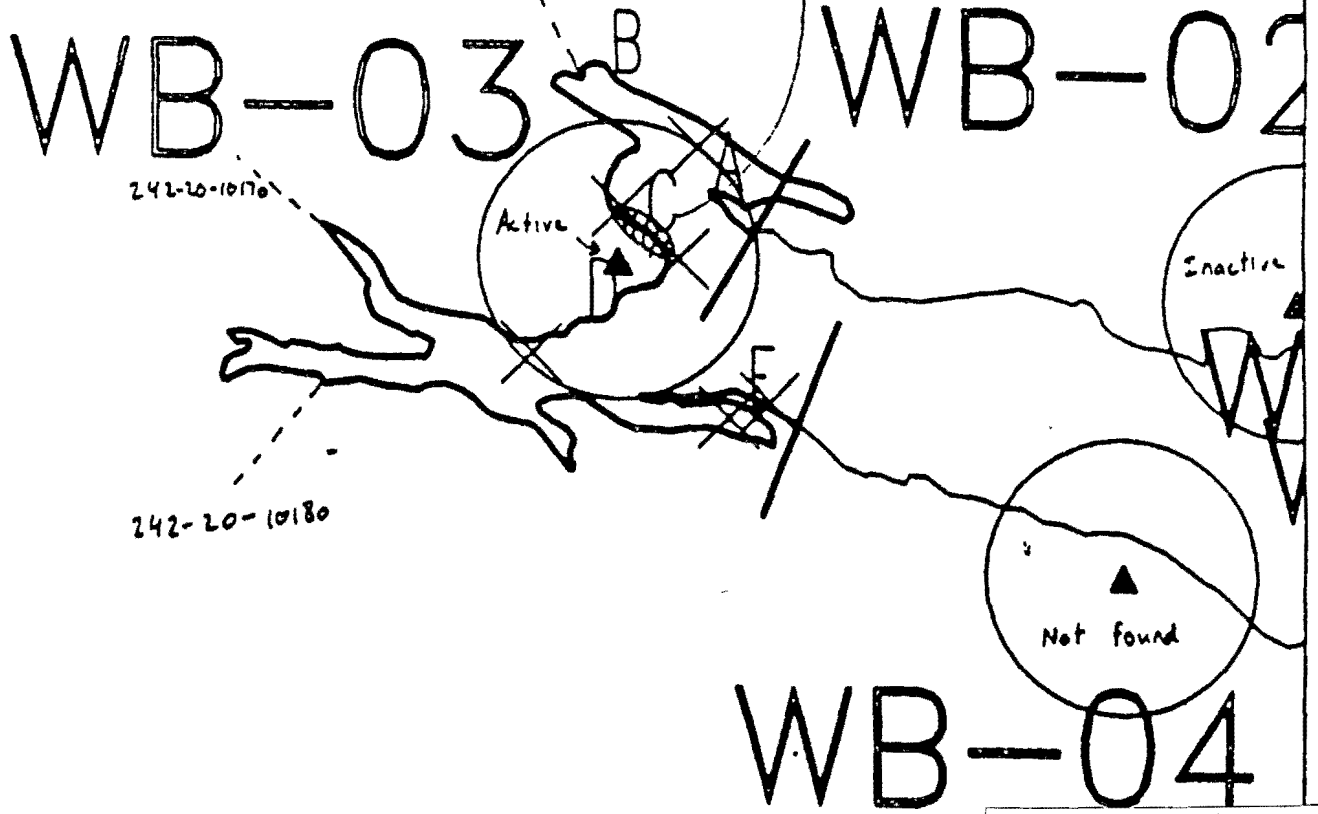
TIM TURNER EXXON and Mike Reavis Veco feel WB3C is completed as per the work order. The high tide does not permit survey of beach segment in its entirety, so I cannot demobilize it. As I am being extracted at 1730 back to HOMER, it will have to be surveyed at a later time by ADEC for demobilization. In review of WB3C just before departure, -1649- as the tide goes out more and more mousse paddies are in evidence. Squad 7 will not have time to complete this subsequent before being rotated out.

ACE 10459960

SIGNATURE E. Patrick Egan

ACE 1941241

Incorporates information from USFWS  
bald eagle survey 5/19/90



ACE 10459961

ACE 1941242



Exxon Company, USA  
Map Key: W-3



ECOLOGY MAP  
SEGMENT WB-3  
SUBDIVISION C (3 of 5)  
METERS

- ★ Seabird Colony
- ▲ Eagle Nest

P. 9

SEC. 01.SI. WB-3  
SUBDIVISION C  
DATE 4/6/90

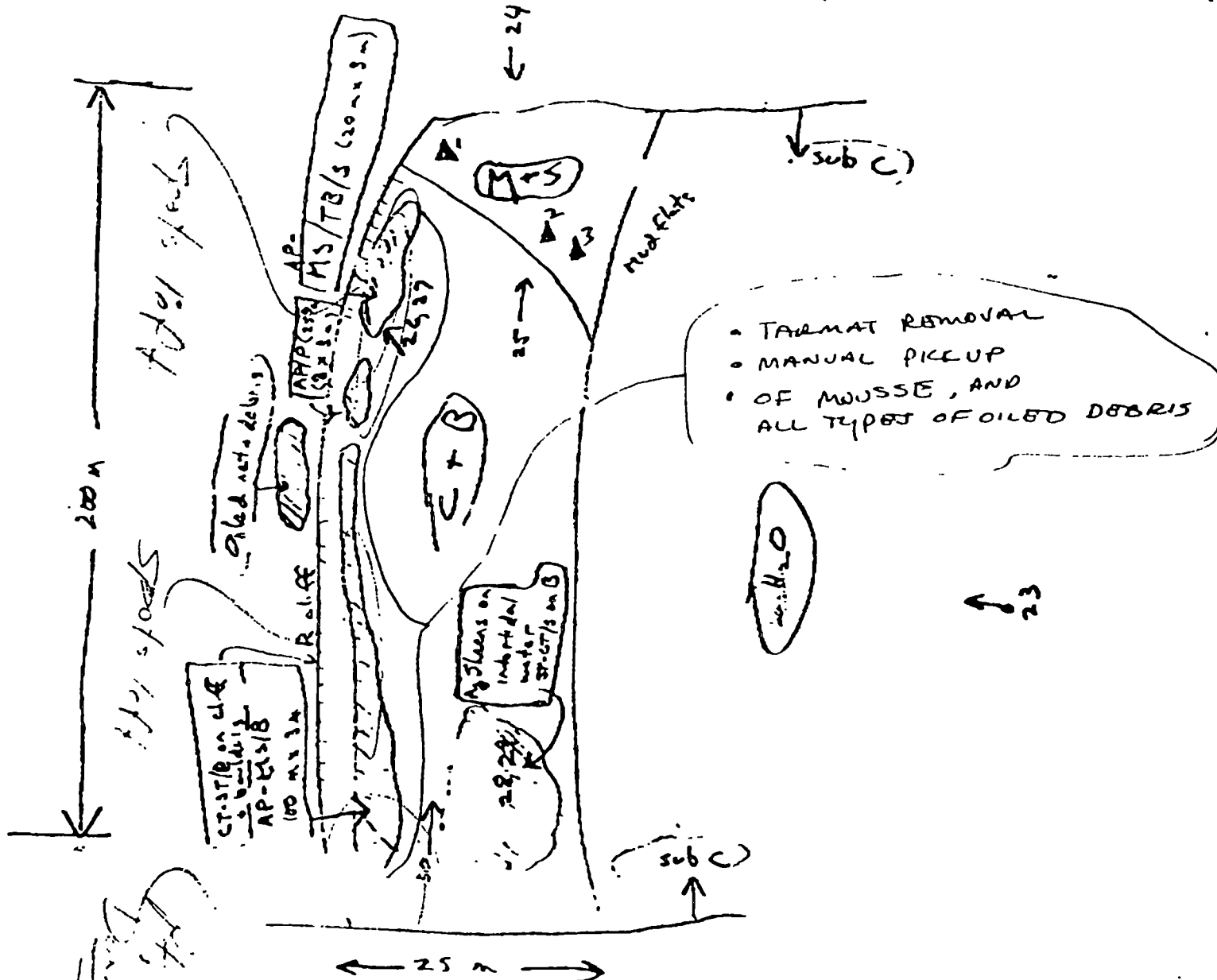
SKETCH MAP

CHECKLIST

- N Arrow
- Approx. Scale
- Seg/Sub Bndry
- Oil Dist.
- Width
- Length
- % Cover
- Substrate Character
- Est. FOWL/WL
- SSI
- Profile Location(s)
- Profile(s)
- PR Location(s)
- Photo Location(s)

LEGEND

- △ No Subsurface Oil
- △ Subsurface Oil
- CT/C Continuous Distribution
- CT/B Broken Distribution
- CT/P Patchy Distribution
- CT/S Splashed Distribution
- Oiled Vegetation
- Photo location, direction, and number



• TARMAT REMOVAL  
• MANUAL PICKUP  
• OF MUSSE, AND  
• ALL TYPES OF OILED DEBRIS

ACE 10459962

Oil Character Length (m) AP <sup>170</sup> PO 110 CV 110 CT 120 ST 130 MS 120 PT 20 TB 30 FL 20 NO 110

Windy Bay WB3C E.P. Egan 11/22/1990 194

RE VIBROCORDED

ACE 1941243 APR 12 1990

### ADEC DAILY SHORELINE ASSESSMENT

LOCATION: Windy Bay SEG WB3 SUBSEG B

MONITOR(S): E. P. Egan

DATE: 2/21/1990

TIME: BEGIN 0715 END 1330

TIDES:	TIME:	HEIGHT:
	LOW <u>0819</u>	<u>-2.9</u>
	HIGH <u>0141</u>	<u>14.4</u>
	LOW <u>2020</u>	<u>2.0</u>
	HIGH <u>1501</u>	<u>11.9</u>

WEATHER: CLOUDY RAIN FOG SUN  
 TEMP: 60 SEA COND: calm  
 WIND DIR: N-NE SE-S SW-W NW  
 WIND SPEED (KNOTS): 0-15 16-30 30+

ENVIRONMENTAL CONSTRAINTS: (SEAL HAULOUTS, EAGLE NESTS, MUSSEL BEDS, ETC.) Eagle Nest and Anadromous Stream

WAVE EXPOSURE: LOW MED HIGH  
ACROSS SHORE ZONE: SU UITZ MITZ LITZ

SURFACE SEDIMENTS: R 10 & B 10 & C 10 & P 20 & G 15 & S 15 & M 20  
SUBSURFACE SEDIMENTS: R 10 & B 10 & C 10 & P 20 & G 15 & S 15 & M 20

#### OIL CHARACTERISTICS

SURFACE: POOLED - MOUSSE - TARBALL - COVER - COAT - STAIN  
SUBSURFACE: OP - OR - OF

#### TREATMENT TECHNIQUES

MANUAL RAKING/TILLING	HEADER FLOOD (HOT/COLD)
<u>MANUAL REMOVAL</u> <u>PO</u> <u>MS</u> <u>AP</u> <u>TB</u>	BIOREMEDIATION _____
SPOT WASHING	MECHANICAL _____
OTHER _____	

EQUIPMENT USED: Shovels, Trowels, Bags, Pumps  
 NAMES OF REPS & OTHER AGENCIES: EXXON TIM TURNER  
 USCG R. D. Peters OTHER: Veco Mike Lewis  
 WORKERS ON SITE: ORTS 9 OTHER: USE+WLS Dawn Stiles  
Exxon Archeologist Arch Crowell

#### WASTE HANDLING/DISPOSAL

ITEMS USED TO ABSORB/CONTAIN OIL Supersacks  
 # OF BAGS COLLECTED: 2 1/2  
 OILED DEBRIS 1 OIL & SEDIMENTS 1/2 OILED VEG. -  
 OILED LOGS PRESENT: Y N # OF LOGS REMOVED None

ACE 10459963

4/20/90

ACE 1941244 -15

M/V ENSCO Atlas

6/8/90

ADEC DAILY SHORELINE ASSESSMENT

LOCATION: Windy Bay SEG UB-03A SUBSEG (10<sup>th</sup> 5)

MONITOR(S): Charles Reed  
DATE: 6/8/90 TIME: BEGIN 0730 END 1024

TIDES:	TIME:	HEIGHT:	WEATHER:	CLLOUD	RAIN	FOG	SUN
LOW	<u>0922</u>	<u>-1.5</u>	TEMP:	<u>30</u>	SEA COND:	<u>calm</u>	
HIGH	<u>0317</u>	<u>18.0</u>	WIND DIR:	<u>N-NE E-SE S-SW W-NW</u>			
LOW	<u>2125</u>	<u>4.3</u>	WIND SPEED (KNOTS):	<u>0-15</u>	<u>16-30</u>	<u>30+</u>	
HIGH	<u>1633</u>	<u>16.4</u>					

ENVIRONMENTAL CONSTRAINTS: (SEAL HAULOUTS, EAGLE NESTS, MUSSEL BEDS, ETC.) Salmon stream Fry outmigration (3/1 - 5/15) spawning (7/10 - 8/31) eagle nest (3/1 - 6/1) acv nest (3/1 - 9/1) sensitive Estuary, Invertebrate harvesting

WAVE EXPOSURE: LOW MED HIGH  
ACROSS SHORE ZONE: SU WITZ WITZ LITZ

SURFACE SEDIMENTS: R 5 & B 15 & C 40 & P 20 & G 15 & S 5  
SUBSURFACE SEDIMENTS: R    & B    & C    & P    & G    & S   

OIL CHARACTERISTICS

SURFACE: POOLED - MOUSSE - TARBALL - COVER - COAT - STAIN  
SUBSURFACE: OP - OR - OF

TREATMENT TECHNIQUES

MANUAL BAKING/TILLING	HEADER FLOOD (HOT/COLD)
MANUAL REMOVAL: PO-MS <u>AP-7D</u>	BIOREMEDIATION
SPOT WASHING	MECHANICAL
OTHER	

EQUIPMENT USED: shovels & tools  
NAMES OF REPS & OTHER AGENCIES: EXXON Tom Czarnicki  
USCG OTHER:  
WORKERS ON SITE: ORTS 3 OTHER:

WASTE HANDLING/DISPOSAL

ITEMS USED TO ABSORB/CONTAIN OIL  
# OF BAGS COLLECTED: 5 sacks  
OILED DEBRIS 0 OIL & SEDIMENTS ✓ OILED VEG. 0  
OILED LOGS PRESENT: Y # OF LOGS REMOVED 0

ACE 10459964 HS

ACE 1941230 HS

9 of 14

4/20/90



M/I ERSCO HT163

6/8/90

PHOTO/VIDEO DOCUMENTATION

PHOTOGRAPHS: ROLL # 0 FRAME(S): \_\_\_\_\_ REASON: \_\_\_\_\_

VIDEO: TAPE # \_\_\_\_\_ REASON: \_\_\_\_\_

COMMENTS

PROBLEMS: ENFORCEMENT ACTIVITIES, UPLAND CONT., ETC.

(PLEASE NOTE IF PROBLEM WAS DISCUSSED WITH PROPER AUTHORITY, AND SUBSEQUENT RESPONSE.)

OBSERVATIONS: TREATMENT EFFICIENCY, POSSIBLE IMPROVEMENTS, ETC.

crew of 3 reed works and Exxon T. Gzarnecki,  
ADEC Charles Reed ~~worked~~ walked beach  
picking-up mussels pebbles and small pockets of  
oil on bedrock & boulders. removal of these  
pockets of oil and mussel pebbles was efficient

SIGNATURE

*Charles Reed*

ACE 10459965

ACE 1941231

11 of 14

ADEC DEMOBILIZATION REPORT  
FOR PHYSICAL/MECHANICAL TREATMENT AND CUSTOMER

To: Alaska Department of Environmental Conservation  
Oil Spill Response Center  
Anchorage, Alaska

Attn: John Bauer  
FAX 265-4666, 265-4656

RE: SEGMENT NUMBER WB3 SUBSEGMENT NUMBER B

DEC REP E. P. EGAN USCG REP R. D. Peters

EXXON REP TIM TURNER BOAT NAME/SQUAD NUMBER Yukon River / Squad 7

Has work been completed as stated on the work order? If your answer is no please explain in detail how the work performed was different from the work order language.

Yes

Is there additional oil remaining which can be removed with further physical/mechanical treatment? If yes what is the recommended treatment method.

No

Describe the amount of oil remaining (type, size of area and location).

Additional Comments (keep objective)

Residual oil from clean-up effort, as well as oiled sediments remain in the subsegment. At this time they have not been found in a large enough concentration or area to justify further manual pick-up.

signature E. Patrick Symp

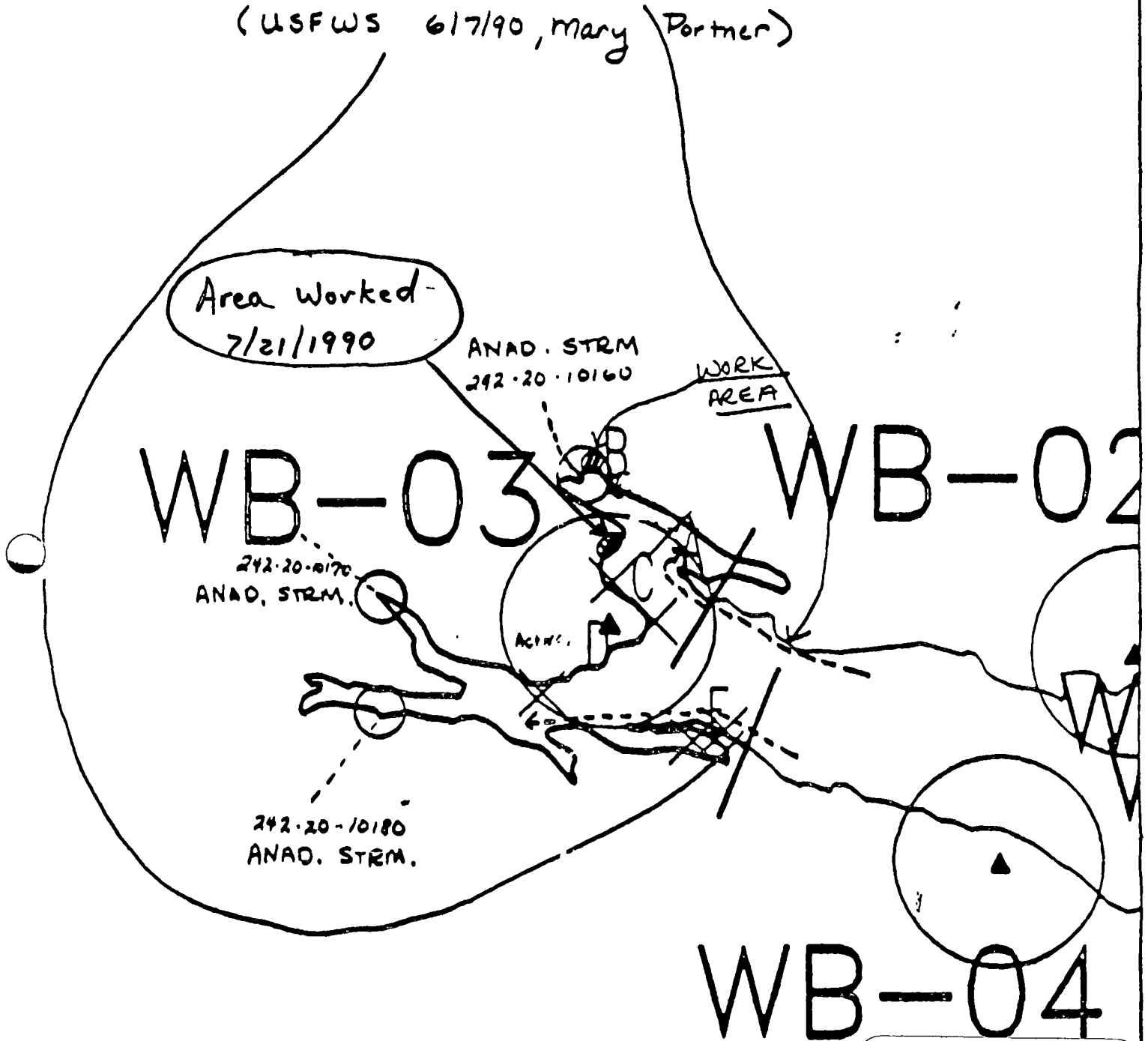
Date and time of demobilization from segment 22 July 1990 1330

Shoremon\55 5-12-90

ACE 10459966

ACE 1941232

Access routes approved to minimize disruption of nearby eagle nest  
(USFWS 617190, Mary Porter)



ANADROMOUS STREAM EVALUATION

ACE 10459967

ACE 1941233



KON Company, USA  
Pub Key: 101-10-3



ECOLOGY MAP 6/2/90

SEGMENT WB-3

SUBDIVISION B (2.01.5.)

METERS



★	Seabird Colony
▲	Eagle Nest

SEGMENT ST 233

SUBDIVISION 3

DATE 4 16 90

CHECKLIST

- N Amer
- Approx. Scale
- Seg/Sub Entry
- Oil Cont.
- Width
- Length
- % Cover
- Substrate Character
- Ext. HML/LWL
- SSI
- Profile Location(s)
- Profile(s)
- Pit Location(s)
- Photo Location(s)

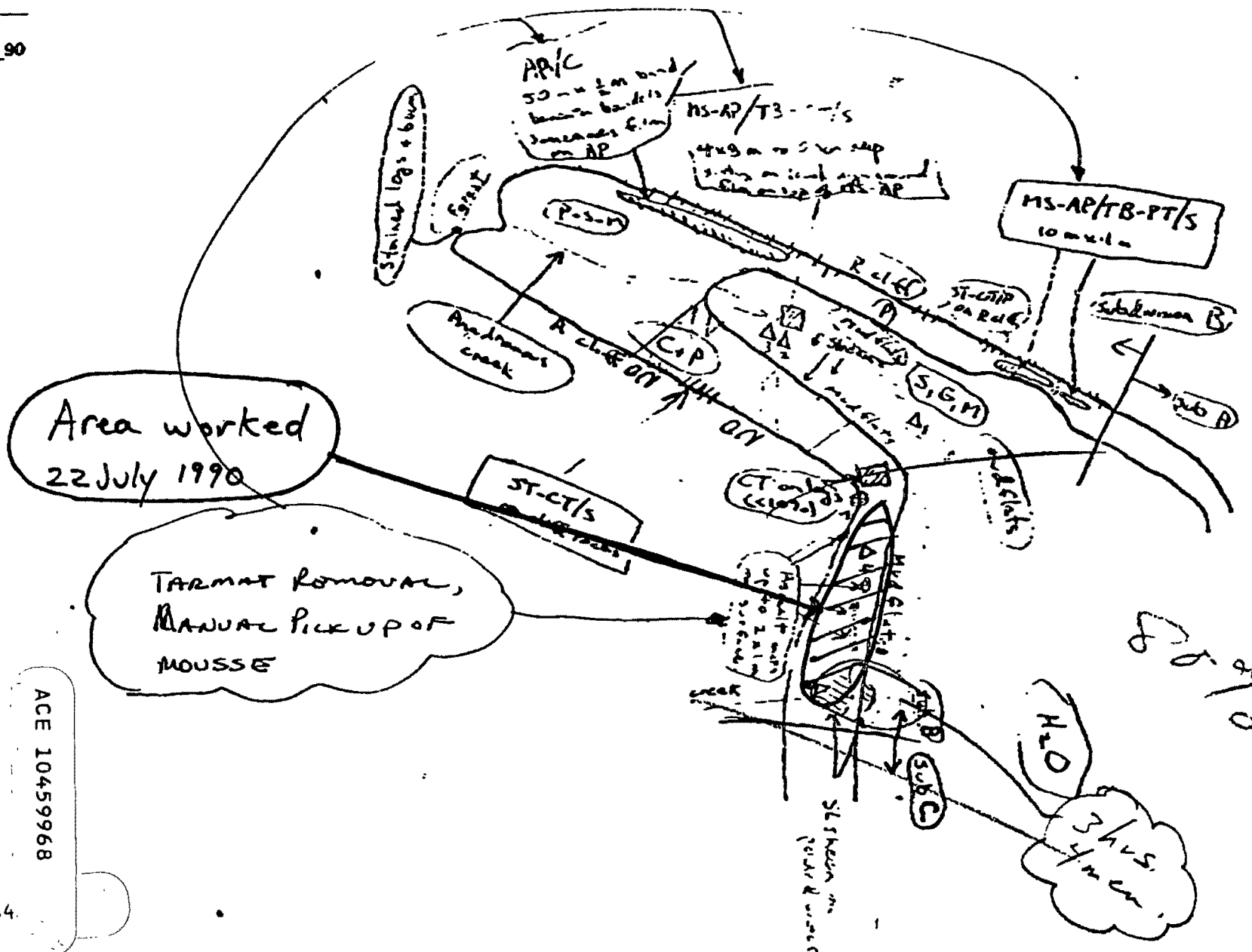
LEGEND

- 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
- Oiled Vegetation
- Photo location, direction, and number

ACE 10459968

ACE 1941234

SKETCH MAP



ADEC Demobilization Report W83B

R-8-90 SUN 21:20

### ADEC DAILY SHORELINE ASSESSMENT

LOCATION: Windy Bay SEG W83 SUBSEG 0

MONITOR(S): E.P. Egan

DATE: 7/22/1990

TIME: BEGIN 1515 END 1649

TIDES:	TIME:	HEIGHT:
LOW	<u>0819</u>	<u>-2.9</u>
HIGH	<u>0141</u>	<u>14.4</u>
LOW	<u>2020</u>	<u>2.0</u>
HIGH	<u>1501</u>	<u>11.9</u>

WEATHER: CLOUDY RAIN FOG  SUN  
 TEMP: 65 SEA COND: calm  
 WIND DIR: N-NE E-SE-S-SW-W-NW  
 WIND SPEED (KNOTS): 0-15 16-30 30+

ENVIRONMENTAL CONSTRAINTS: (SEAL HAULOUTS, EAGLE NESTS, MUSSEL BEDS, ETC.) None in effect.

WAVE EXPOSURE:  LOW  MED  HIGH  
ACROSS SHORE ZONE:  SU  UITZ  MITZ LITZ

SURFACE SEDIMENTS: R 15 & B 75 & C 5 & P 3 & G 2 & S 0 &  
SUBSURFACE SEDIMENTS: R B C P G S

#### OIL CHARACTERISTICS

SURFACE:  POOLED -  MOUSSE -  TARBALL -  COVER -  COAT -  STAIN  
SUBSURFACE:  OP -  OR -  OF

#### TREATMENT TECHNIQUES

MANUAL RAKING/TILLING	HEADER FLOOD (HOT/COLD)
<input checked="" type="checkbox"/> MANUAL REMOVAL <input checked="" type="checkbox"/> PO <input checked="" type="checkbox"/> MS <input checked="" type="checkbox"/> AP <input checked="" type="checkbox"/> TB	BIOREMEDIATION _____
SPOT WASHING	MECHANICAL _____
OTHER _____	

EQUIPMENT USED: Shovels, Trowels, Bags, Pam-Ams.  
 NAMES OF REPS & OTHER AGENCIES: EXXON TIM TURNER  
USCG R.D. Peters OTHER: Jeco Mike Reavis  
 WORKERS ON SITE: ORTS 9 OTHER: Exxon Archeologist Aron Crowell

#### WASTE HANDLING/DISPOSAL

ITEMS USED TO ABSORB/CONTAIN OIL Super sacks  
 # OF BAGS COLLECTED: 1  
 OILED DEBRIS .5 OIL & SEDIMENTS .5 OILED VEG. —  
 OILED LOGS PRESENT:  Y  N # OF LOGS REMOVED None

ACE 10459969

ACE 1941235

4/20/90

PHOTO/VIDEO DOCUMENTATION

PHOTOGRAPHS: ROLL # \_\_\_\_\_ FRAME(S): \_\_\_\_\_ REASON: \_\_\_\_\_

VIDEO: TAPE # \_\_\_\_\_ REASON: \_\_\_\_\_

COMMENTS

PROBLEMS: ENFORCEMENT ACTIVITIES, UPLAND CONT., ETC.  
(PLEASE NOTE IF PROBLEM WAS DISCUSSED WITH PROPER AUTHORITY,  
AND SUBSEQUENT RESPONSE.)  
*None.*

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

OBSERVATIONS: TREATMENT EFFICIENCY, POSSIBLE IMPROVEMENTS, ETC.

*Area has large accumulation of mousse, and tar mats.  
This crew will not finish this subsegment, as they will rotate  
out tonight. The next crew rotated aboard the Yukon River  
is being sent to the Barrow Islands. This subsegment will  
therefore wait some time before completion.  
The outer Kenai Peninsula needs more Oil Recovery Crews  
to complete the area in the allotted time.*

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

SIGNATURE *E. Patrick Egan*

ACE 10459970  
ACE 1941236

SEGMENT ST, WB-3

SUBDIVISION D

DATE 4 / 7 90

SKETCH MAP

2 cm = 60 m  
App Scale

Area worked 7/22/1990

CHECKLIST

- N Arrow
- Approx. Scale
- Seg/Sub Body
- Oil Dist.
- Width
- Length
- % Cover
- Substrate Character
- Est. H/M/L/WL
- 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

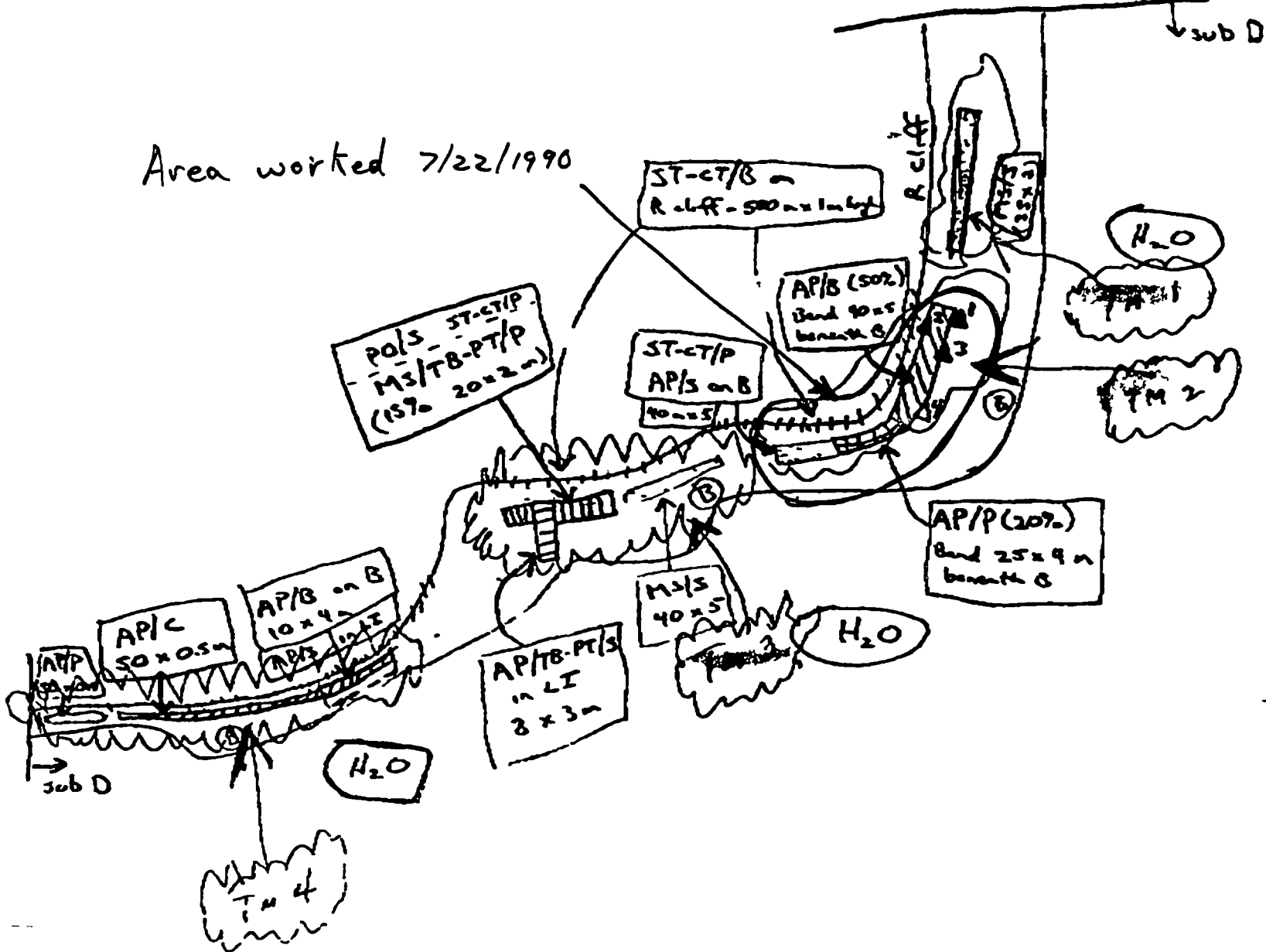
CT/S  
Splashed Distribution

Oil Vegetation

1 →  
Photo location, direction, and number

ACE 1941237

ACE 10459971



Windy Bay 7/22/1990 E.P. Egan p.4

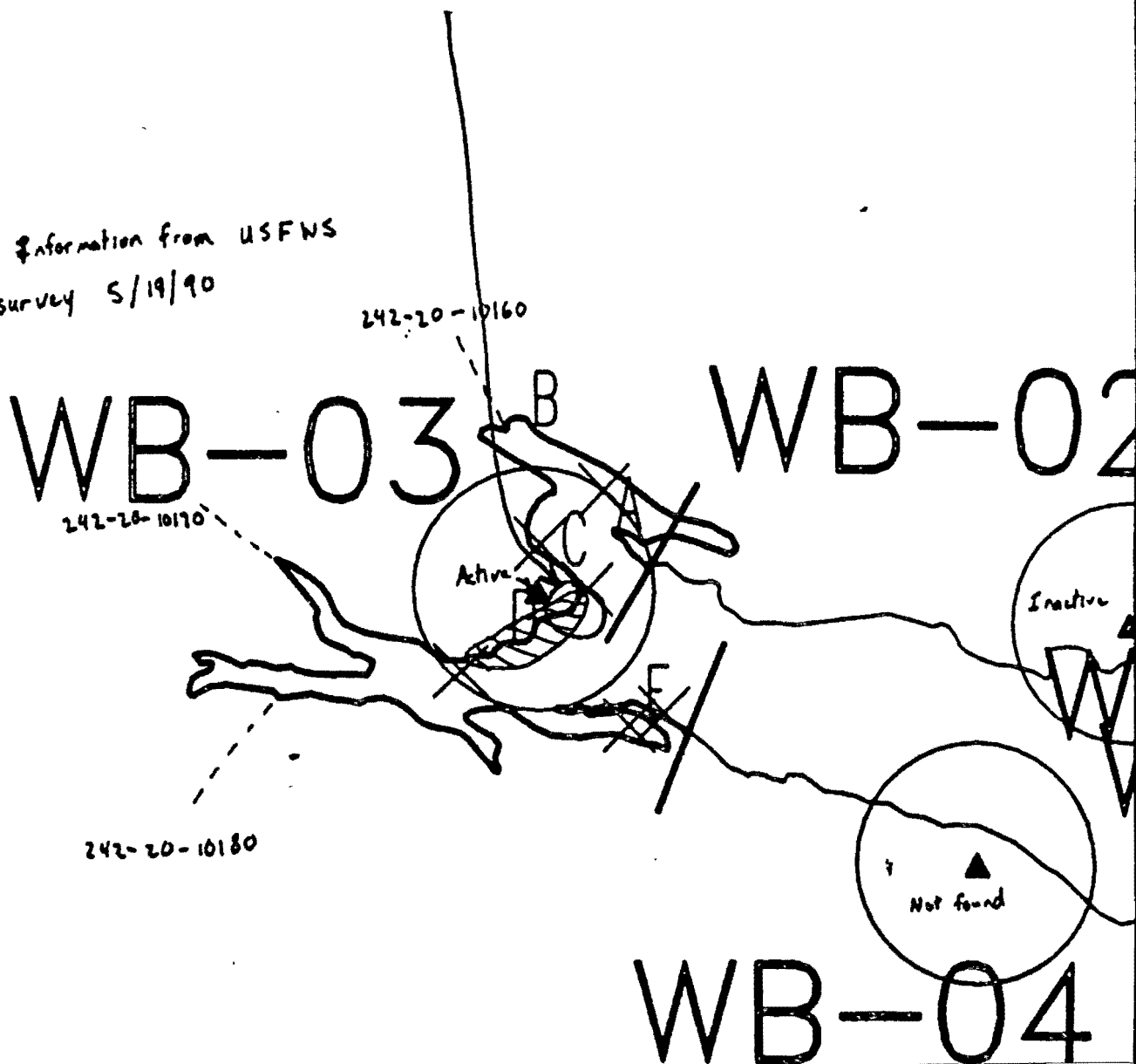
Oil Character Length (m) AP 180 PO 20 CV N/A CT 500 ST 500 MS 500 PT 500 TB 500 FL N/A IO N/A

REVISION: 02/24/90

Area worked

7/22/1990

Incorporates information from USFWS  
bald eagle survey 5/19/90



ACE 10459972

ACE 1941238



Exxon Company, USA  
Map Key: KEN-18-3

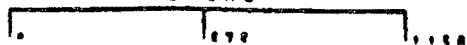


### ECOLOGY MAP

SEGMENT WB-3

SUBDIVISION D (4 of 5)

METERS



- ★ Seabird Colony
- ▲ Eagle Nest

1 inch = 1887 feet



### ADEC DAILY SHORELINE ASSESSMENT

LOCATION: Windy Bay SEG WB 3 SUBSEG C

MONITOR(S): E.P. Egan

DATE: 7/22/1990

TIME: BEGIN 1330 END 1515

TIDES:	TIME:	HEIGHT:
	LOW <u>0819</u>	<u>-2.9</u>
	HIGH <u>0147</u>	<u>14.4</u>
	LOW <u>2020</u>	<u>2.0</u>
	HIGH <u>1501</u>	<u>11.9</u>

WEATHER: CLOUDY RAIN FOG **(SUN)**  
 TEMP: 65 SEA COND: calm  
 WIND DIR: N-NE **(E)S-S-SW-W-NW**  
 WIND SPEED (KNOTS): **(0-15)** 16-30 30+

ENVIRONMENTAL CONSTRAINTS: (SEAL HAULOUTS, EAGLE NESTS, MUSSEL BEDS, ETC.) None in effect.

WAVE EXPOSURE: **(LOW)** MED HIGH  
ACROSS SHORE ZONE: SU **(UITZ)** **(MITZ)** LITZ

SURFACE SEDIMENTS: R 10 & B 10 & C 60 & P 5 & G 5 & S 5 & M 5  
SUBSURFACE SEDIMENTS: R 10 & B 10 & C 60 & P 5 & G 5 & S 5 & M 5

#### OIL CHARACTERISTICS

SURFACE: **(POOLED)** - **(MOUSSE)** - **(TARBALL)** - **(COVER)** - **(COAT)** - **(STAIN)**  
SUBSURFACE: OF - OF - OF

#### TREATMENT TECHNIQUES

MANUAL RAKING/TILLING	HEADER FLOOD (HOT/COLD)
<b>(MANUAL REMOVAL)</b> : <b>(PO)</b> <b>(MS)</b> <b>(AP)</b> <b>(TB)</b>	BIOREMEDIATION _____
SPOT WASHING	MECHANICAL _____
OTHER _____	

EQUIPMENT USED: Shovels, Trowels, Bags, Pom-poms.  
 NAMES OF REPS & OTHER AGENCIES: EXXON TIM Turner  
 USCG R.D. Peters OTHER: Veco Mike Reas  
 WORKERS ON SITE: ORTS 9 OTHER: Exxon Archeologist Aron Crowell  
USFWS Doug Stiles

#### WASTE HANDLING/DISPOSAL

ITEMS USED TO ABSORB/CONTAIN OIL Supersacks, Pom-poms.  
 # OF BAGS COLLECTED: 2  
 OILED DEBRIS 1 OIL & SEDIMENTS 1 OILED VEG. —  
 OILED LOGS PRESENT: **(Y)** N # OF LOGS REMOVED \_\_\_\_\_

4/20/90

ACE 10459973 15  
 ACE 1941239 -15

Windy Right Creek  
- Post Treatment Survey  
of upstream work area

ADF&G MULTI-ASSESSMENT DATA FORM

ADP/10/9/98

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

2 REGION: PWS  KP, CI  K, AP

METHOD: Aerial  Ground  Boat

3 DATE: 6/19/90 16 HIGH TIDE TIMES: 1148 12324 21 TEAM RECORDER: Doug Hill

4 START TIME: 1505 18 HIGH TIDE HTS: 9.2 113.5 22 OBSERVERS: Lee Glenn

6 STOP TIME: 1644 17 LOW TIDE TIMES: 0526 11708 23 AGENCY: ADF&G

8 SEGMENT #: WB-3B 18 LOW TIDE HTS: -0.4 13.3 24 PHOTOS TAKEN:  N  
9000H15H  
Roll #: 9000H16H Frame: 13-24

7 STATION #: \_\_\_\_\_ 19 TIDE HT AT SURVEY: \_\_\_\_\_ 25 VIDEO TAKEN: Y  TAPE#: \_\_\_\_\_

8 K-UNIT: \_\_\_\_\_ Ebb Slack Flood Slack 26 VIDEOTAKEN: Y  TAPE#: \_\_\_\_\_

9 STAT AREA: \_\_\_\_\_ 20 USCG QUAD: Selkonia A-5 Start: \_\_\_\_\_ End: \_\_\_\_\_

10 LAT: 59 14 7 11 LONG: 151 33 34 28 SAMPLES TAKEN? Y  Number

12 SOURCE: Map Loran Oil \_\_\_\_\_

13 LOCATION: Windy Bay, Head of Bay, North Shore Sediment \_\_\_\_\_

14 DESCRIPTION: \_\_\_\_\_ Biological \_\_\_\_\_

Water \_\_\_\_\_

EXTENT OF OIL

	SHORELINE				STREAM			
	L	W	M <sup>2</sup>	%	L	W	M <sup>2</sup>	%
27 SURFACE COVERAGE								
28 SURFACE THICKNESS								
29 PENETRATION								

30 OVERALL OIL IMPACT: N VL  M H

31 OIL TYPE: Pooled Mousse  Tar Asphalt Sticky  Stain

32 OILED DEBRIS? Y

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

34 WAVE EXPOSURE: High Moderate  Low

35 SUBSTRATE TYPE: Bedrock 10 Boulder 10 Cobble 30  
Gravel 30 15 Sand 20 Mud/silt 10  
GRAVEL 15

36 CATALOGED ANAD. FISH SREAM?  N

37 CATALOG #: 242-20-10160

38 STREAM NAME: Windy Right Creek

39 OIL IN STREAM BED?  ~~N~~

40 OIL ON STREAM BANKS?  N

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

42 OIL WITHIN 1 MILE OF STREAM?  N  
Where: WB-02, WB-03

43 ANADROMOUS FISH PRESENT?  N

44 ANADROMOUS FISH OBSERVATION

Species	Aerial	Ground
Chum Ay		4200
ACE 10459974 +/S		

COMMENTS: Met by Rich Hagler (POPS) (Rich is a Kodiak Fisherman). Crew has recently worked the North Shore from the creek mouth upstream to the head of the small drainage below the rock wall. This area looks worse than it did prior to the cleanup activity. Looks as if the crew did a lot of rooting around but picked up a little oil. As we observed much heavily oiled sediment and balls of mouse (which are very apparent). The oil ~~has~~ has been transported from the <sup>Stream bank</sup> ~~edge~~ over

FRAME(S)	DESCRIPTION

## 46 OIL DISTRIBUTION DIAGRAM

Comments cont'd.

down into the water below & to the lower portions of the slope. Roosting around & decreasing the % of oil per area is a common practice ~~to~~ used by EXXON crews (e.g.; storm beam relocation, tilling etc). Most of the boot tracks in the mud/silt below the slope are filled with water (water saturated oiled sediment) - nearly all of these pods of water are surfaced with oil sheen. The blue-gray sheen is covering nearly all mud/silt in this area - the blue gray oil sheen is present everywhere the place has been ~~total~~ disturbed (2 8yds wide x 50yds - Area). Chum Fry are visible in the drainage below the <sup>oiled</sup> slope - swimming beneath the oil sheen. Fry observed throughout the slough. Clara Crosby (ADEC) says she already asked the crew to come back and rework this area. UELAFOR & ADEC asked the OOPS man ~~and~~ J. Dean (EXXON) to keep the crew out of the drainage where the fry are --- the drainage is now heavily impacted with sheen filled boot tracks. The oil saturated sediment (looks like someone poured motor oil all over the beach) seems to be a bigger threat than "easily" removed tarmats. Cleanup should focus on hazards and not <sup>oil</sup> that <sup>can</sup> most cheaply & easily be removed. The tarmats are picked up because of the greater % of oil and the ease ~~with~~ which they can be picked up. Also, the removal of a tarmat is an immediate visual reward - whereas oil saturated pliable sediment is not. One would have to remove the top 4" to get most of the oil saturated sediment. A crew of four is presently working the north shore from the mouth of the creek east toward the slough. Trowels + Bags, sitting cross-legged, moving ricks and scraping up oil as per the "rules of this game!"

~~John~~ After speaking with us at WB-01 John Dean (EXXON) says he will speak with the crew about improving the quality of their work. At WB-03 the crew could have worked the oil from the bottom up preventing ~~the~~ to some degree the downward transport of oil into salmon waters.

= Sample taken

= Photo frame # and shot direction.

I found a 3' X 4' oil patty in the grass flats at WB-03. At WB-03 oil was transported by crew to un-oiled portions of the beach

ACE 10459975

xxxx = Area where crew transported oil from upslope down to channel below chimney fog in this channel.

GRASS Intertidal FLAT

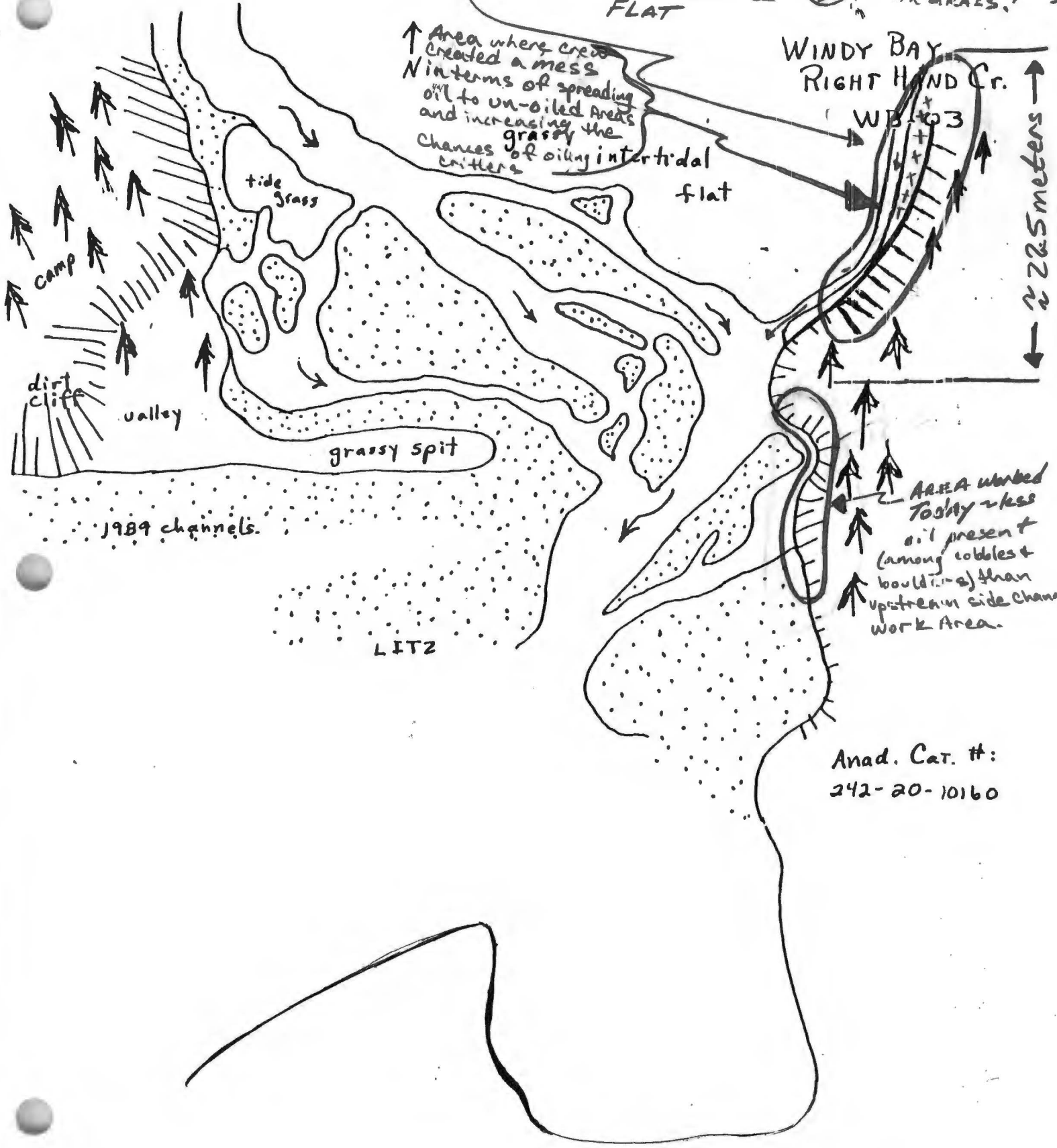
2' x 5' oil patch in GRASS.

↑ Area where crew created a mess in terms of spreading oil to un-oiled areas and increasing the chances of oiling intertidal critters

WINDY BAY RIGHT HAND Cr.

WB 103

22.5 meters



Anad. Cat. #: 242-20-10160

ADEC DAILY SHORELINE ASSESSMENT

LOCATION: WINDY BAY (ANAD STREAM #242-32-1016) SEG 1/B003 SUBSEG B  
MONITOR(S): Clara Crosby  
DATE: 06/19/90 TIME: BEGIN 0900 END 1900

TIDES: TIME: HEIGHT: WEATHER: CLOUDY RAIN FOG SUN  
LOW 0506 -0.4 TEMP: 48 SEA COND: 1.5 to 2 ft chop  
HIGH 1130 9.2 WIND DIR: N-NE-E-SE-S-SW-W-NW  
LOW 1648 3.3 WIND SPEED (KNOTS): 0-15 16-30 30+  
HIGH 2306 13.5

ENVIRONMENTAL CONSTRAINTS: (SEAL HAULOUTS, EAGLE NESTS, MUSSEL BEDS, ETC.) Anadromous stream: IA, IB, IJ, FJJ, BAA, ST  
Access was given to work crew thru constraint area.

WAVE EXPOSURE: LOW MED HIGH  
ACROSS SHORE ZONE: SU UITZ MITZ LITZ

SURFACE SEDIMENTS: R 10 % B 10 % C 10 % P 10 % G 10 % S 20 % M 30 %  
SUBSURFACE SEDIMENTS: R     % B     % C     % P     % G     % S     %

OIL CHARACTERISTICS

SURFACE: POOLED MOUSSE TARBALL -- COVER - COAT - STAIN  
SUBSURFACE: OP - OR - OF

TREATMENT TECHNIQUES

MANUAL RAKING/TILLING     HEADER FLOOD (HOT/COLD)      
MANUAL REMOVAL: PO-MS-AP-TB BIOREMEDIATION      
SPOT WASHING     MECHANICAL      
OTHER    

EQUIPMENT USED: Shovels, trawls  
NAMES OF REPS & OTHER AGENCIES: EXXON, John Deere  
USCG, Terry Schultz OTHER: ADFIG, Doug Hill, Lee Glenn  
WORKERS ON SITE: ORTS 9 OTHER:    

WASTE HANDLING/DISPOSAL

ITEMS USED TO ABSORB/CONTAIN OIL      
# OF BAGS COLLECTED:      
OILED DEBRIS .25 OIL & SEDIMENTS .90 OILED VEG. 0  
OILED LOGS PRESENT: Y (N) # OF LOGS REMOVED 0

-4/20/90

ACE 10459977

ACE 1941251 +/s

PHOTO/VIDEO DOCUMENTATION

PHOTOGRAPHS: ROLL # Drug Hill York FRAME(S): photos of cleanup in stream REASON: \_\_\_\_\_  
VIDEO: TAPE # \_\_\_\_\_ REASON: \_\_\_\_\_

COMMENTS :

PROBLEMS: ENFORCEMENT ACTIVITIES, UPLAND CONT., ETC.  
(PLEASE NOTE IF PROBLEM WAS DISCUSSED WITH PROPER AUTHORITY,  
AND SUBSEQUENT RESPONSE.)

Oil in the forms of mousse (4.2cm in diameter) & sheen was displaced from the bank of stream in to mud on North shore. Crew was sent back to area to clean twice due to inadequate work.

Due to delay in cleanup (06/19/90) grass was too high to recover silt in soil. It was suggested by Deland Stein to leave it - to minimize impact of that area.

OBSERVATIONS: TREATMENT EFFICIENCY, POSSIBLE IMPROVEMENTS, ETC.

Care should have been taken to minimize initial impact of stream area. A break was taken from 1100-1400 (lunch & tides) & 5 crew members were moved to WB001 @ 1700.

Suggest looking @ stream area for denial after a couple of days to settle & flush as well as exposure to a warmer day. Segment WB003B was not completed outside of stream mouth.

SIGNATURE

Clara S. Crosby  
06/19/90

ACE 10459978

ACE 1941252

M/V Yukon River

ADEC DAILY SHORELINE ASSESSMENT

LOCATION: Windy Bay SEG NR-03 SUBSEG B7C

MONITOR(S): Charles R. Reed

DATE: 6/26/90 TIME: BEGIN 1535 END 1845

TIDES:	TIME:	HEIGHT:	WEATHER:	CLLOUDY	RAIN	FOG	<u>SUN</u>
LOW	<u>1049</u>	<u>-2.0</u>	TEMP:	<u>60</u>	SEA COND:	<u>2 ft swells</u>	
HIGH	<u>0416</u>	<u>13.2</u>	WIND DIR:	<u>N-NE-E-SE-S-SW-W-NW</u>			
LOW	<u>2303</u>	<u>2.5</u>	WIND SPEED (KNOTS):	<u>0-15</u>	<u>16-30</u>	<u>30+</u>	
HIGH	<u>1730</u>	<u>11.7</u>					

ENVIRONMENTAL CONSTRAINTS: (SEAL HAULOUTS, EAGLE NESTS, MUSSEL BEDS, ETC.) \_\_\_\_\_

WAVE EXPOSURE: LOW MED HIGH  
ACROSS SHORE ZONE: SU UITZ MITZ LITZ

SURFACE SEDIMENTS: R 25 % B 10 % C 20 % P 25 % G 10 % S \_\_\_\_\_ %  
SUBSURFACE SEDIMENTS: R \_\_\_\_\_ % B \_\_\_\_\_ % C \_\_\_\_\_ % P \_\_\_\_\_ % G \_\_\_\_\_ % S \_\_\_\_\_ %

OIL CHARACTERISTICS

SURFACE: POOLED - MOUSSE - TARBALL - COVER - COAT - STAIN  
SUBSURFACE: OP - OR - OF

TREATMENT TECHNIQUES

MANUAL RAKING/TILLING	HEADER FLOOD (HOT/COLD)
<u>MANUAL REMOVAL</u> : PO-MS-AP-TB	BIOREMEDIATION _____
SPOT WASHING	MECHANICAL _____
OTHER _____	

EQUIPMENT USED: Shovels & hand trowels  
NAMES OF REPS & OTHER AGENCIES: EXXON George Stiles  
USCG Jeff Fuller OTHER: USF/W Dem/Nugget  
WORKERS ON SITE: ORTS 6 OTHER: \_\_\_\_\_

WASTE HANDLING/DISPOSAL

ITEMS USED TO ABSORB/CONTAIN OIL \_\_\_\_\_  
# OF BAGS COLLECTED: 2 1/2 super sacks  
OILED DEBRIS 0 OIL & SEDIMENTS 1 OILED VES 0  
OILED LOGS PRESENT: Y (N) # OF LOGS REMOVED 0

6/26/90  
CR

4/20/90

ACE 10459979

ACE 1941247 +/S

4 of 5

PHOTO/VIDEO DOCUMENTATION

PHOTOGRAPHS: ROLL # 4 FRAME(S): 4 REASON: \_\_\_\_\_

VIDEO: TAPE # \_\_\_\_\_ REASON: \_\_\_\_\_

COMMENTS

PROBLEMS: ENFORCEMENT ACTIVITIES, UPLAND CONT., ETC.  
(PLEASE NOTE IF PROBLEM WAS DISCUSSED WITH PROPER AUTHORITY,  
AND SUBSEQUENT RESPONSE.)

\_\_\_\_\_  
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\_\_\_\_\_

OBSERVATIONS: TREATMENT EFFICIENCY, POSSIBLE IMPROVEMENTS, ETC. \_\_\_\_\_

Jerry Nugget of USFWS was on site to oversee  
for eagle constraints, manual pick-up of weathered  
mouse, AP, Gerald Nugget has found possible  
Arch site in Uplands, Getting in touch with  
Exxon Arch, will be here ~~tomorrow~~ tomorrow.  
Having difficult time communicating with USCA  
Rep. seems there is a problem, NOT wanting to  
inform me of happenings on sites,

SIGNATURE Charles R. Reed

ACE 10459980

6/26/90  
CRP

ACE 1941248

5 of 5



SQUAD NUMBER 7  
 VESSEL PERSONNEL MANIFEST  
 M/V YUKON RIVER

26TH  
 JUNE 1990

1	GEO. R. STILES	SQD/LDR	EXXON	463-96-8283	-	512-992-8764
2	DERREL TUCKER	CAPT.	TRICO	427-90-9106	O+	601-947-8702
3	WALTER GEMEINHARDT	MATE	TRICO	064-24-1767	-	205-745-9081
4	DENNIS CLARK	MATE	TRICO	494-58-2562	O+	504-851-3833
5	ROD BONVILLAIN	AS/ENG	TRICO	435-06-7834	-	504-879-3484
6	JOHN M. HEALY	CH/ENG	TRICO	2-128201334	-	601-255-4333
7	JAMES CLAY	A. B.	TRICO	306-56-3373	O+	602-838-5972
8	PAUL BUCKLEY	A. B.	TRICO	427-15-3960	-	601-374-4180
9	WM. ROGER HAMM	O. S.	TRICO	227-84-0085	-	804-596-9111
10	DANNY SMITH	COOK AST.	CCI	429-84-1587	A+	907-349-0400
11	BARB ASHCRAFT	COOK	CCI	539-46-3750	-	907-277-0100
12	WILLIAM LINDBERG	SUPER.	VECO	555-54-5492	-	907-522-1354
13	RICK PETER	EMT	VECO	007-66-4352	O+	907-456-4231
14	WANNAH EVANOFF	SKIFF OP	VECO	574-46-6545	-	907-277-9676
15	MYRA MUMCHUCK	O. C. W.	VECO	574-20-3065	-	907-284-2249
16	WILLIAM SHAW	O. C. W.	VECO	530-38-5290	-	907-333-9742
17	MARANNA KISER	O. C. W.	VECO	520-58-3978	-	907-224-8200
18	ALMA TANAPE	O. C. W.	VECO	574-48-5352	-	907-284-2258
19	KEW MANDR	O. C. W.	VECO	380-80-5407	-	907-243-0968
20	STANLY PRENIAZEK	O. C. W.	VECO	074-46-5093	-	907-224-5276
21	JEFFREY FULLARD	MONITOR	USCG	485-56-7466	O+	907-229-0469
22	CHARLES REED	MONITOR	ADEC	431-49-0257	A+	907-224-7232
23	JERRY CURRY	O. C. W.	VECO	458-84-4470	-	907-262-9134
24	BOB HORCHOVER	SKIFF OP	VECO	574-52-5017	-	907-243-3872
25	GERALD M. NUGENT	MONITOT	USFWS	484-34-5931	O+	303-423-2858

+++++

M/V SKILAK

1	CHARLES STEWART	CAPT.	CROWLEY	173-30-8877	-	206-659-8395
2	RICHARD KENNEDY	MATE	CROWLEY	537-14-9174	-	206-878-2594
3	FREDRICK DAVIS	A. B.	CROWLEY	538-68-5226	-	206-282-9222
4	PETER A. SAVELA	ENG.	CROWLEY	537-62-6899	-	206-631-1879
5	ROGER HARRISON	O. S.	CROWLEY	394-52-2914	-	715-235-9236
6	ALEN COTE	COOK	CROWLEY	532-70-3665	-	206-226-2762

+++++

M/V THOMAS HENRY

1	JOHN EATON	CAPT.	K+B	573-72 4987	-	907-822-5549
2	EUGENE LUCE	MATE	K+B	528-70-5405	-	907-443-2000

ACE 10459981

ACE 1941249

# 6/29/90 Manifest of Crew on Board Arctic Salvor

ELSON WINTER RESPONSE TEAM - VESSEL PERSONNEL MANIFEST  
 TO BE COMPLETED AND FAXED TO ELSON OPERATIONS OFFICE IMMEDIATELY  
 PRIOR TO EACH DEPARTURE FROM PORT AND WITH EACH MORNING REPORT

VESSEL: Arctic Salvor DEPARTING FROM: Sitka DEPARTURE TIME/DATE: 1900 6/29/90

FULL LEGAL NAME - COMPANY - POSITION - SOC. SECUR. NO. - BLOOD TYPE - INCH. PHONE - ROTATE DATE
1. Tony Darr   CUMM   SUPER   262-19-5290   O+   607 287-7352   7/25/90
2. Curtis R. Van Fleet   USCC   MONITOR   211-58-3835   O   907 331   7/16/90
3. G. Glenn Hyman   WCC   O.G.   457-15-4227   A1   607 287-7352   4/29/90
4. Dale Parent   KIMBLE   O.G.   550-86-0534     607 287-6237   7/15/90
5. David Bellows   POPS   REVEREND SUFFR   435-92-5293   O+   907 466-5336   7/15/90
6. GREG JERICH   VECC   SUFFR OPERATOR   475-26-4149     907 357-6306   7/15/90
7. Bruce Kirkwood   VECC   DEPT. EMP.   524-20-467     907 357-5508   7/25/90
8. Bruce Kirkwood   VECC   SUFFR OPERATOR   524-20-467   O+   907 357-5508   7/25/90
9. Richard P. Mackay   VECC   DCW   393-60-3961   O+   907 478-5915   7-2-90
10. Lawrence P. Mackay   VECC   SUFFR OPERATOR   574-76-9325     907 478-5915   7-2-90
11. J. T. H. H.   VECC   DCW   554-27-5997     907 478-5915   7-2-90
12. J. T. H. H.   VECC   DCW   574-64-6563   A-   907 478-5915   7-2-90
13. Larry Decker   VECC   DCW   574-30-7790     907 478-5915   7-2-90
14. [Name]   VECC   SUFFR OPERATOR   153-46-7417     907 478-5915   7-2-90
15. [Name]   VECC   SUFFR OPERATOR   392-20-5825   -   58-484-2128   7-2-90
16. [Name]   SDEC   SUFFR OPERATOR   508-74-290   +   907 478-5915   7/2/90
17.

SIGNATURE OF SUPERVISOR \_\_\_\_\_

FORM TOOL VHW-24

## BOATS WITH SQUAD 4

ELSON WINTER RESPONSE TEAM - VESSEL PERSONNEL MANIFEST  
 TO BE COMPLETED AND FAXED TO ELSON OPERATIONS OFFICE IMMEDIATELY  
 PRIOR TO EACH DEPARTURE FROM PORT AND WITH EACH MORNING REPORT

VESSEL: Arctic Salvor DEPARTING FROM: Sitka DEPARTURE TIME/DATE: \_\_\_\_\_

FULL LEGAL NAME - COMPANY - POSITION - SOC. SECUR. NO. - BLOOD TYPE - INCH. PHONE - ROTATE DATE
1. Lance A. Parsons   SEA   CAPTAIN   574-24-3329   -   907 285-3427   -
2. Dennis E. [Name]   KIMBLE   CAPTAIN   536-09-7294   -   907 285-3427   -
3. Kim Olsen   KIMBLE   ENG. SUFFR   538-64-9542   -   907 564-1200   -
4. Curt Cochran   KIMBLE   CAPTAIN   574-76-9307   -   907 285-3427   -
5. Ryan Martin   KIMBLE-2   CAPTAIN   574-56-4387   -   907 285-3427   -
John Emmel   Crowley   MASTER   538-48-4502   A1   26782-265   8/1/90
Baker [Name]   "   CH. MATE   565-62-0887     267 473-8110
Leroy Harrison   "   CH. ENG.   571-30-2451
Paul Braden   "   2ND MATE   581-47-3049
John Williams   "   COOK   484-26-0269
Gail Jackson   "   A.P.   519-56-1584   O+
Rucker [Name]   "   A.P.   020-24-2634
Barrett King   "   O.S.   539-90-1595   O+
Paula Wells   "   2ND COOK   535-86-3551

ACE 10459982

ACE 1941250 - 15

M/V Yukon River

ADEC DAILY SHORELINE ASSESSMENT

LOCATION: Windy Bay SEG WB-03 SUBSEG BC(1)

MONITOR(S): Charles R. Reed

DATE: 6/29/90 TIME: BEGIN 0700 END \_\_\_\_\_

TIDES:	TIME:	HEIGHT:	WEATHER: CLOUDY RAIN FOG SUN
LOW	<u>1131</u>	<u>-0.9</u>	TEMP: <u>5.0</u> SEA COND: <u>1A chop</u>
HIGH	<u>0605</u>	<u>12.0</u>	WIND DIR: <u>N-NE-E-SE-S-SW-W-NW</u>
LOW	<u>2358</u>	<u>2.6</u>	WIND SPEED (KNOTS): 0-15 <u>(16-30)</u> 30+
HIGH	<u>1812</u>	<u>11.5</u>	

ENVIRONMENTAL CONSTRAINTS: (SEAL HAULOUTS, EAGLE NESTS, MUSSEL BEDS, ETC.) Eagle constraints, Jerry Nugget of USF&W  
is on site. Exxon Arch. must be on site before treatment.

WAVE EXPOSURE: LOW MED HIGH  
ACROSS SHORE ZONE: SU (LITZ) (MITZ) (LITZ)

SURFACE SEDIMENTS: R 25 % B 75 % C 25 % P 10 % G 5 % S 5 %  
SUBSURFACE SEDIMENTS: R     % B     % C     % P     % G     % S     %

OIL CHARACTERISTICS

SURFACE: (POOLED) - MOUSSE - (TARBALL) - COVER - COAT - STAIN  
SUBSURFACE: OP - OR - OF

TREATMENT TECHNIQUES

MANUAL RAKING/TILLING	HEADER FLOOD (HOT/COLD)
MANUAL REMOVAL: <u>PO-MS-AP-TB</u>	BIOREMEDIATION _____
SPOT WASHING	MECHANICAL _____
OTHER _____	

EQUIPMENT USED: Shovels & hand tools  
NAMES OF REPS & OTHER AGENCIES: EXXON Traverse Skins  
USCG Jeff Fuller OTHER: Gene Nugget USF&W  
WORKERS ON SITE: ORTS 11 OTHER: \_\_\_\_\_

WASTE HANDLING/DISPOSAL

ITEMS USED TO ABSORB/CONTAIN OIL pom pom s  
# OF BAGS COLLECTED: \_\_\_\_\_  
OILED DEBRIS 28.85 OYL & SEDIMENTS 1.70 OILED VEG.      
OILED LOGS PRESENT: Y (M) # OF LOGS REMOVED    

4/20/90 1/2/90 CRR

ACE 10459983  
ACE 1941245  
2 of 12

*m/v Yukon River*

**PHOTO/VIDEO DOCUMENTATION**

PHOTOGRAPHS: ROLL #    FRAME(S):    REASON:   

VIDEO: TAPE #    REASON:   

**COMMENTS**

**PROBLEMS; ENFORCEMENT ACTIVITIES, UPLAND CONT., ETC.**

(PLEASE NOTE IF PROBLEM WAS DISCUSSED WITH PROPER AUTHORITY, AND SUBSEQUENT RESPONSE.)

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**OBSERVATIONS: TREATMENT EFFICIENCY, POSSIBLE IMPROVEMENTS, ETC.**

*Area site was mapped out by Arch on site. Treatment will proceed with them on site. Run a beach survey of WB-03B-D checking eiled sites workers have returned to area worked struggle to pick-up missed mousse patches unworked by monitor Jerry Nugget USF&W on site. Nugget USF&W pulled crew off beach because the eagle was leaving the nest but this was due to the plane & heliopter of the logging Co. The planes flight path took it over the nest at above 100-150 ft right over the nest area. In route to Park DZK P.D-01*

*7/2/90  
CRP*

SIGNATURE *Charles R. Reed*

STATE OF ALASKA  
FIELD MEMO

Permit Number ASAP Serial Number 1006

To (Name and Organization) Jon Zarnecki (EXXON) CHIEF AEC VANDEPELS (USCS)

Date and Time 8/10/90 1520 Area GOA, KENAI, Homer Zone.

Location and Section of Work WINDY BAY WBO03B,

Authorization to Proceed  Non Conformance  ADEC Permit  ADF&G Permit  
 ADNR Permit  Problem Identification  Other

ADEC Recommends the following treatment for segment  
WBO03B & ANADROMOUS STREAM:

- A) MANUALLY REMOVE AP/MS/HSOR.
- B) MANUALLY REMOVE OVERBURDEN (OF SMC  
P.G.S) OF ANY SUBSURFACE AP/MS/HSOR  
& REMOVE - MANUAL - AP/MS/HSOR.

Permit Expiration Date

State Representative Clara S. Crosby. Recipient

Action Taken by Recipient

ACE 10459985

ACE 1941262

FIELD SHORELINE COMMENT SHEET

SEGMENT AS1 WB-3 SUBDIVISION: B SITE: O1 DATE 8 Aug 1990

SCG

NAME AFC Vandepels SIGNATURE AFC Vandepels

YES  NO PRIORITY SITE FOR REASSESSMENT IN 1991

REASON: Found very little AP & SOR in segment but would reassess in 91 due to stream.

**ADEC**

NAME CLARA S. CROSBY SIGNATURE Clara S. Crosby

YES  NO PRIORITY SITE FOR REASSESSMENT IN 1991

REASON: Anadromous fish Stream. Reported mats in stream area are in sediment w/ thick grass cover. An early survey could document & recover thin oiling before it becomes too difficult to find. Patrick Norman expressed concern over the possibility of dried oil. Please note photo #1 & 2. ASAP 0404CC. along beach SW of stream mouth - no oil was found subsurface on ASAP survey. However patches of ms were found here (note photo #2). with shun extent not determined.

**LAND MANAGER**

NAME Patrick Norman SIGNATURE Patrick Norman

YES  NO PRIORITY SITE FOR REASSESSMENT IN 1991

REASON: possibility of subsurface oil in the upper beach, south west of stream becoming uncarved over the winter. a layer of new gravel has covered what I know was there when we last the windy bay ~~the~~ segment last year.

**EXXON**

NAME JON CZARNACKI SIGNATURE Jon Czarnacki

YES  NO PRIORITY SITE FOR REASSESSMENT IN 1991

REASON: This area is active salmon area and subsurface and needs to be checked (more time in the spring). This was bio late today.

ACE 10459986 +/S

REVISION NO. 7/26/90

ACE 1941263 +/S

# ASAP SHORELINE OILING SUMMARY

TEAM NO. 04 EXXON Jon Czarnecki SEGMENT AS/ WB-3  
 OG Rich Marty USGS USCG AEC Vandepels SUBDIVISION B  
 ADEC Clara Crosby LAND REP Pat Norman (P.Gr) TOTAL NO. SITES 1  
 DATE 08 Aug 190 TIME 08:45 to 09:42 TIDE LEVEL -1.75 to -1.75  
 TOTAL EST LENGTH OF SHORELINE SURVEYED: 1092 m  
 SURVEYED FROM:  Foot  Boat  Helo WEATHER:  Sun  Clouds  Fog  Rain  Snow  
 OIL CATEGORY LENGTH: W — m M — m N 255 m VL 157 m NO 680 m US — m

## SURFACE OIL

CHARACTER	DISTRIBUTION				OILED ZONES			
	/C	/B	/P	/S	SU	UI	MI	LI
ASPHALT								
S.O.R.			X			X		
POOLED COVER								
COAT								
STAIN								
MOUSSE			I			I		
PATTIES/T.B.			X			X		
FILM		X	X		X			
NO OIL					X			X
EST. SITE LENGTH					1092			

## SITE 2

CHARACTER	DISTRIBUTION				OILED ZONES			
	/C	/B	/P	/S	SU	UI	MI	LI
ASPHALT								
S.O.R.								
POOLED COVER								
COAT								
STAIN								
MOUSSE								
PATTIES/T.B.								
FILM								
NO OIL								
EST. SITE LENGTH								

## SITE 3

CHARACTER	DISTRIBUTION				OILED ZONES			
	/C	/B	/P	/S	SU	UI	MI	LI
ASPHALT								
S.O.R.								
POOLED COVER								
COAT								
STAIN								
MOUSSE								
PATTIES/T.B.								
FILM								
NO OIL								
EST. SITE LENGTH								

## SUBSURFACE OIL

SITE NO.	PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER				OILED INTERVAL (CM-2CM)	CLEAN BELOW (Y/N)	PIT ZONE				SURFACE-SUBSURFACE SEDIMENTS
			OP	OR	OF	NO			SU	UI	MI	LI	
	No	PITS					.						
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Photographs: ASAP-04-04  
 Roll No. — CC  
 Frames 182

COMMENTS Oil is difficult to find on this section of beach. The grasses of the salt marsh have grown up & no oil was found in that area.

ACE 10459987

REVISION NO. 7/27/00  
 ACE 1941264

30 R. Morty  
 SEGMENT ST. WB-3  
 SUBDIVISION B

DATE 4 16 90

CHECKLIST

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

LEGEND

1 Δ  
 PR - No Subsurface Oil

2 Δ  
 PR - Subsurface Oil

CT/C  
 Continuous Distribution

CT/B  
 Broken Distribution

CT/P  
 Patchy Distribution

CT/S  
 Spotted Distribution

Oiled Vegetation

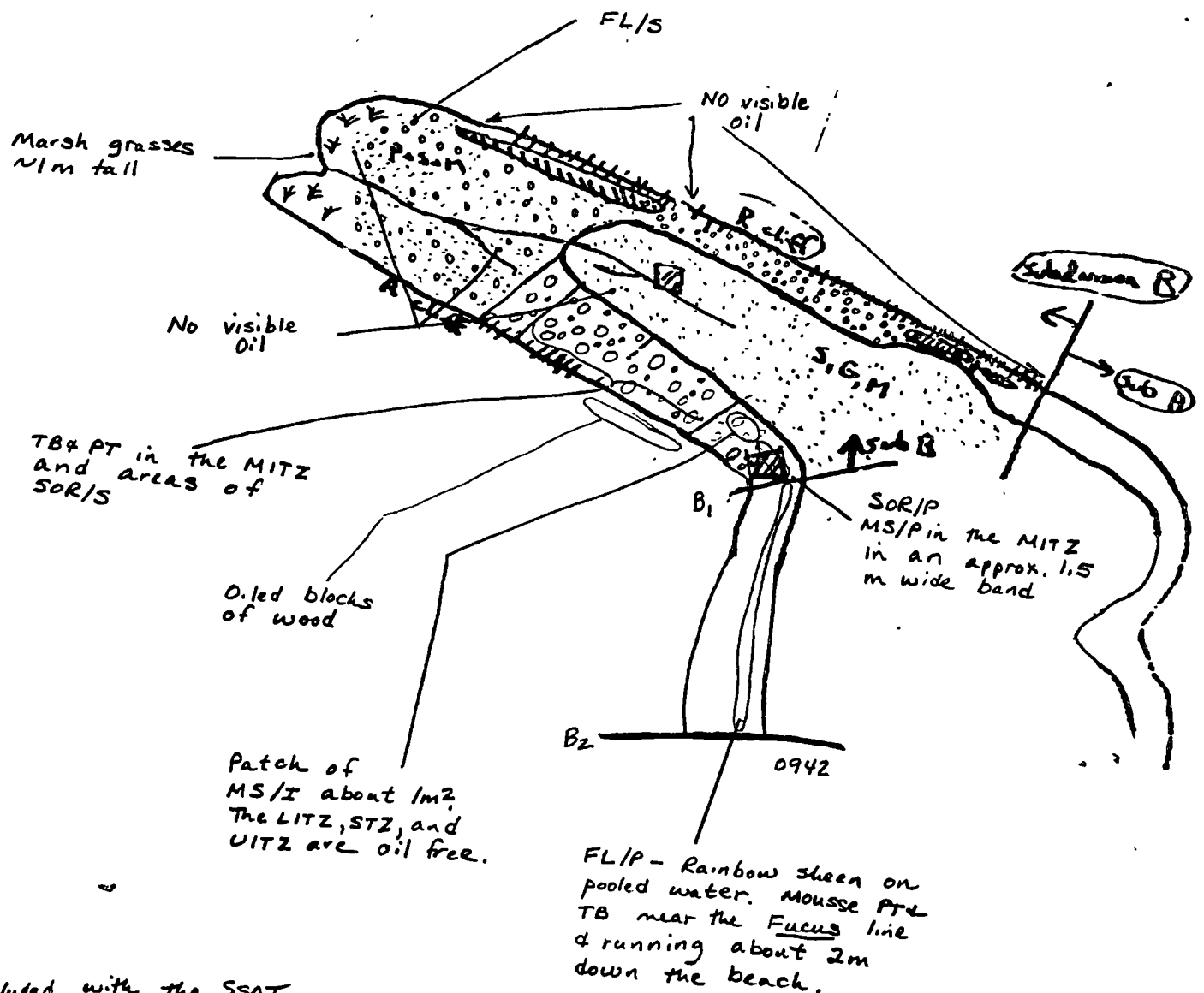
1 →

Photo location, direction, and number

ACE 1941265  
 ACE 10459988

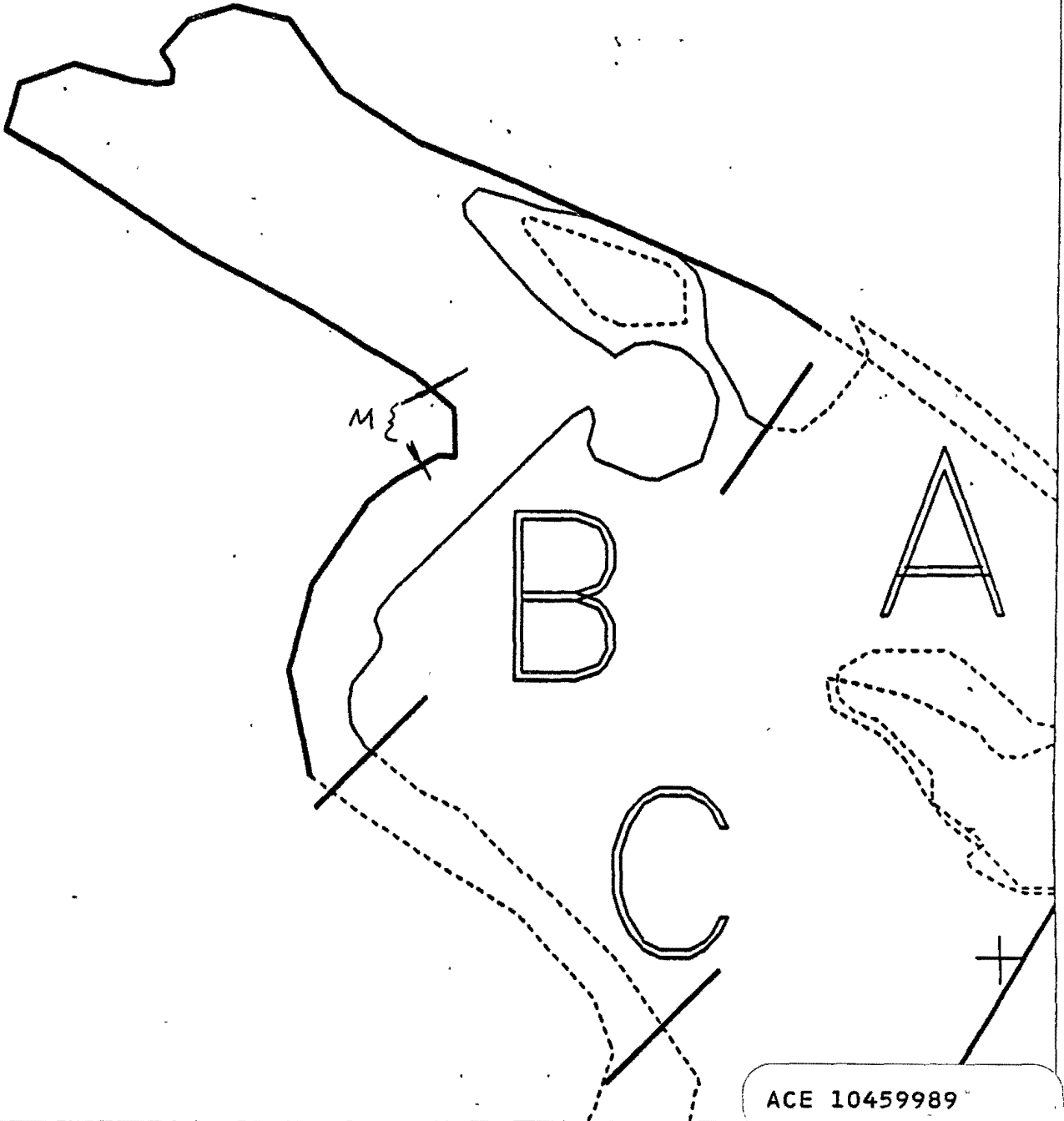


ASAP Annotations on modified SSAT base R. Morty 08/08/90



NOTE: 2 sketch maps are included with the SSAT report. One shows the boundary between Sub-Segments B & C at B<sub>1</sub> & the other at B<sub>2</sub>. B<sub>2</sub> was used during ASAP.





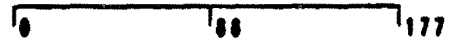
ACE 10459989

"SIGNIFICANT OILING"

WB-3 B

ADEC Subsegment Length: 1092m

METERS



AK State Plane Zone 4 1:3484  
nwb-3b



Subdivision Field Map

Map Key: KENWB-3B

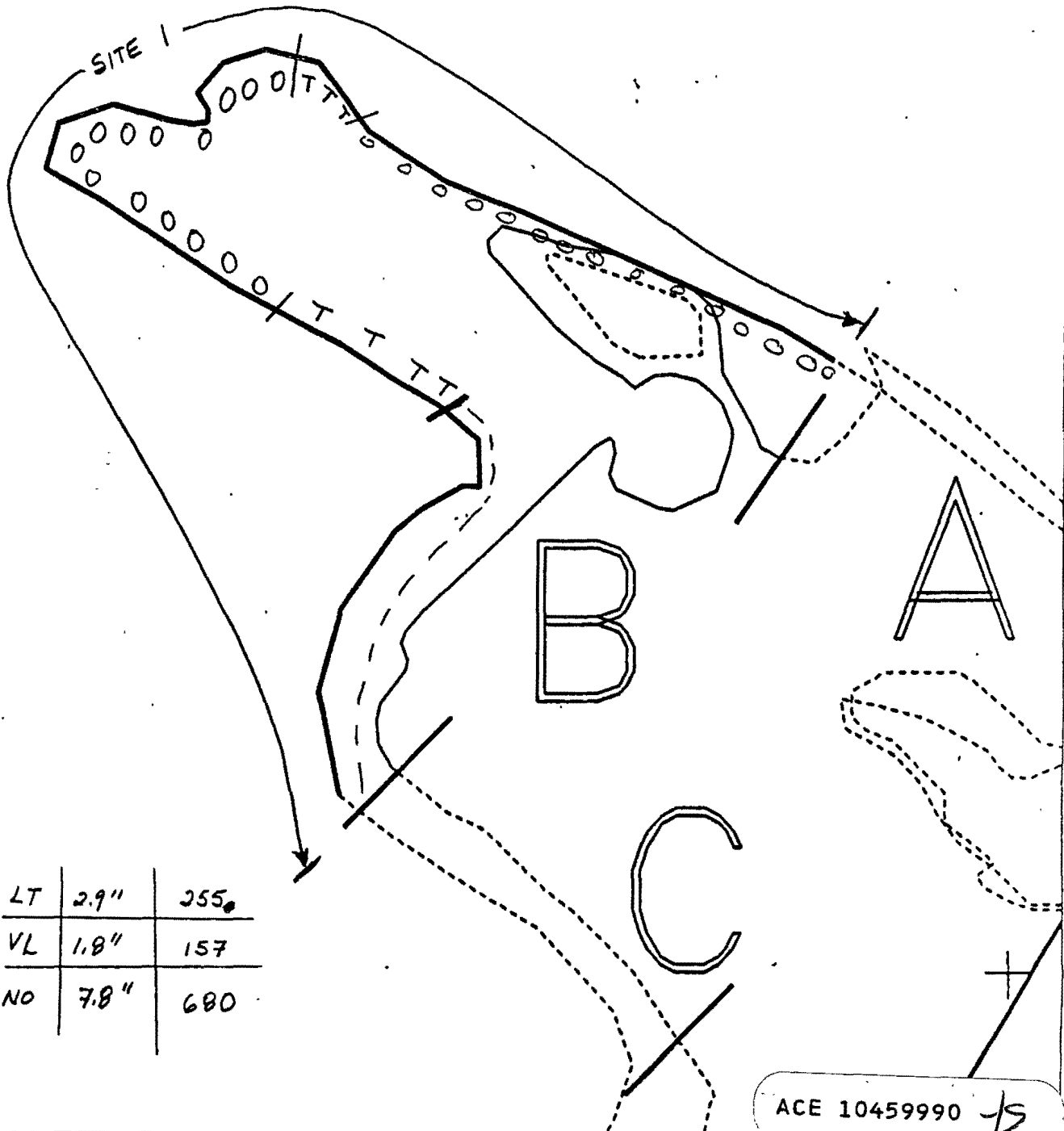
Name: R. Marty

Date: 8 Aug 1990

Date Entered:

- XXXX Wide
- //// Medium
- Narrow
- TTTT Very Light
- 0000 No Oil

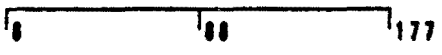
ACE 1941266



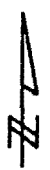
ACE 10459990 JS

- XXXX Wide
- /// Medium
- - - Narrow
- TTTT Very Light
- 0000 No Oil

Oil Distribution  
**WB-3 B**  
 ADEC Subsegment Length: 1092m  
 METERS



AK State Plane Zone 4 1:3484  
 avb-3b



Subdivision Field Map  
 Map Key: KENWB-3B  
 Name: R. Marty  
 Date: 8 Aug 1990  
 Data Entered:



ACE 1941267 -15

WORK PLAN MODIFICATION RECOMMENDATION

SEGMENT WB-03 SUBDIVISION B DATED 6-JUNE-90

ANAD-242-20-10166

MODIFICATION: CLASS I ✓ CLASS II \_\_\_\_\_ CLASS III \_\_\_\_\_

1. REASON FOR MODIFICATION:

LAND MANAGER RECOMMENDATION (ADFEG)

2. SUGGESTED ADJUSTMENT TO WORK PLAN

NO BIO (CUSTOM BLEN) REQUIRED - LAND MANAGER OK'S  
PRESENT CONDITION WITHOUT BIO.

3. TIMING ISSUES

ASAP - THIS SEGMENT IS SCHEDULED FOR BIO 6/23/90

ADEC Russell Kunits

EXXON Wear

USCG 13 J. A. Schmitt

LAND MANAGER \_\_\_\_\_ (if field rep is on scene)

A.O.F.S.G. J. P. Ash

ACE 10459991 HS

ACE 1941253

6/8/90  
CRR

ADEC DEMOBILIZATION REPORT  
FOR PHYSICAL/MECHCNICAL TREATMENT AND CUSTOMBLEN

To: Alaska Department of Environmental Conservation  
Oil Spill Response Center  
Anchorage, Alaska  
Attn: John Bauer  
FAX 265-4666, 265-4654

RE: SEGMENT NUMBER WB-03 E SUBSEGMENT NUMBER (5 of 5)

DEC REP Charles Reed USCG REP Rich Vandepels

EXXON REP Jon Czarnacki BOAT NAME/SQUAD NUMBER Exsco Atlas

Has work been completed as stated on the work order? If your answer is no please explain in detail how the work performed was different from the work order language.

yes

Is there additional oil remaining which can be removed with further physical/mechanical treatment? If yes what is the recommended treatment method.

NO

Describe the amount of oil remaining (type, size of area and location).

NA

Additional Comments (keep objective)

(C)

pooled oil on bed rocks and few scattered mousse  
puffs were removed.  
recommend Demob from site

signature Charles Reed

Date and time of demobilization from segment 6/8/90

Shoremon\55 5-12-90

ACE 10459992

ACE 1941254

14 of 14

M/V ENSCO ATLAS  
4/8/90

ADEC DAILY SHORELINE ASSESSMENT

LOCATION: Windy Bay SEG 03E SUBSEG (5 of 5)

MONITOR(S): Charles Reed  
DATE: 4/8/90 TIME: BEGIN 0730 END 1200

TIDES:	TIME:	HEIGHT:	WEATHER:	<u>CLOUDY</u>	RAIN:	FOG:	SUN:
	LOW <u>0922</u>	<u>-1.5</u>	TEMP:	<u>50</u>	SEA COND:	<u>2A</u>	<u>chop</u>
	HIGH <u>0317</u>	<u>18.0</u>	WIND DIR:	<u>N-NE-E-SE-S-SW-W-NW</u>			
	LOW <u>2125</u>	<u>4.3</u>	WIND SPEED (KNOTS):	<u>0-15</u>	<u>16-30</u>	<u>30+</u>	
	HIGH <u>1633</u>	<u>16.4</u>					

ENVIRONMENTAL CONSTRAINTS: (SEAL HAULOUTS, EAGLE NESTS, MUSSEL BEDS, ETC.) salmon stream fry out migration (3/1-5/15)  
spawning (7/10-8/31) eagle nest (3/1-6/1) active nest (3/1-4/11) sensitive Estuary invertebrate harvestus

WAVE EXPOSURE: LOW MED HIGH  
ACROSS SHORE ZONE: SU UITZ MITZ LITZ

SURFACE SEDIMENTS: R 15 % B 45 % C 20 % P 10 % G 10 % S    %  
SUBSURFACE SEDIMENTS: R    % B    % C    % P    % G    % S    %

OIL CHARACTERISTICS

SURFACE: POOLED - MOUSSE - TARBALL - COVER - COAT - STAIN  
SUBSURFACE: OP - OR - OF

TREATMENT TECHNIQUES

MANUAL RAKING/TILLING	HEADER FLOOD (HOT/COLD)
<u>MANUAL REMOVAL</u> PO-MS <u>AP-TH</u>	BIOREMEDIATION
SPOT WASHING	MECHANICAL
OTHER	

EQUIPMENT USED: Shovels & trowls  
NAMES OF REPS & OTHER AGENCIES: EXXON Don Czarnacki  
USCG Rich Vanderels OTHER: OPS Richard Heglin  
WORKERS ON SITE: ORTS 5 OTHER: @1024 8 workers

WASTE HANDLING/DISPOSAL

ITEMS USED TO ABSORB/CONTAIN OIL  
# OF BAGS COLLECTED: 15 SUPER SACK  
OILED DEBRIS    OIL & SEDIMENTS    OILED VEG.     
OILED LOGS PRESENT: Y    # OF LOGS REMOVED   

ACE 10459993

ACE 1941255

4/20/90

12:44

M/V  
EnSCO Atlas  
6/8/90  
CER

PHOTO/VIDEO DOCUMENTATION

PHOTOGRAPHS: ROLL # 4 FRAME(S): \_\_\_\_\_ REASON: \_\_\_\_\_

VIDEO: TAPE # \_\_\_\_\_ REASON: \_\_\_\_\_

COMMENTS

PROBLEMS: ENFORCEMENT ACTIVITIES, UPLAND CONT., ETC.  
(PLEASE NOTE IF PROBLEM WAS DISCUSSED WITH PROPER AUTHORITY,  
AND SUBSEQUENT RESPONSE.)

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\_\_\_\_\_

OBSERVATIONS: TREATMENT EFFICIENCY, POSSIBLE IMPROVEMENTS, ETC. \_\_\_\_\_

*manual-pick up of pooled oil on bedrock  
and mussel patches on cobble bed had worked  
well.*

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

SIGNATURE *Charles Reed*

ACE 10459994 -15

ACE 1941256 -15

*30/14*

WB-003

FRAME(S) 11, 12, 13 - Sarcobent beam left on flat DESCRIPTION from 1989

Revisions as per Anadscat of 4/28/90 DDA

ANADSCAT - Recommended



- In 1989 Boulders and cobbles were picked and placed into piles over much of this beach - in order to get at the heavy pooled oil beneath and in the interstices. Crews were later told to cease moving rocks (changing the beach morphology) - As NOAA/Exxon stated concerns that it could cause an erosional problem.

In 1990 none of the cairn/graveyard-like piles were evident - only a uniform-random natural looking beach was observed.

ACE 10459995 1/5

ACE 19412194/5

SHORELINE EVALUATION

SEGMENT ST/ WB-03 SUBDIVISION A (1 of 5) DATE 4/6/90

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 All Bald Eagle nests (3/1 to 6/1)-Active eagle nest (3/1 to 9/1)
- 8AA Sensitive Estuary
- 7JJ Invertebrate harvesting

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS: Avoid any unnecessary disturbance or damage to unoiled substrate and biota.

ARCHAEOLOGICAL CONSTRAINT: If cultural resources are uncovered during shoreline treatment, stop work in the vicinity, mark the location of the find and contact Exxon's Cultural Resource Program immediately (564-3274 (Anchorage) or 229-1508 (24 hrs.)).

SHPO SIGNATURE: [Signature] DATE: 5/7/90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 169 m: V.Light 1364 m: No Oil 928 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>X</u> Bioremediation              | <u>    </u> Spot Washing: <u>    </u> Wands |
| <u>X</u> Tarmat: <u>    </u> Breakup | <u>    </u> Beach Cleaner                   |
| <u>    </u> <u>X</u> Removal         | <u>    </u> Other (see comments)            |

COMMENTS: Recommend tarmat removal and pick-up of mousse and tarballs from areas indicated on the field sketch. Bioremediation is recommended for broken coat areas. Treatment should be limited to the period from 6/2 to 7/10 and should be cleared with ADF&G due to possible presence of bald eagle nests. <sup>Sorbent boom + OILED VEG.</sup>

TAG COMMENTS:

TAG APPROVAL DATE: 4/23/90  
ADEC ART WENZEL  
EXXON ANDY TEAN  
NOAA Joseph Tibbitt  
USCG KENNETH KEENE

FOSC: [Signature] DATE: 5-18-90

ACE 10459996  
ACE 1941220



SHORELINE EVALUATION

SEGMENT ST/ WB-03 SUBDIVISION B (2 of 5) DATE 04/06/90

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 All Bald Eagle nests (3/1 to 6/1)-Active eagle nest (3/1 to 9/1)
- 8AA Sensitive Estuary
- 7JJ Invertebrate harvesting

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS: Avoid any unnecessary disturbance or damage to unoiled substrate and biota.

ARCHAEOLOGICAL CONSTRAINT: If cultural resources are uncovered during shoreline treatment, stop work in the vicinity, mark the location of the find and contact Exxon's Cultural Resource Program immediately (564-3274 (Anchorage) or 229-1508 (24 hrs.)).

SHPO SIGNATURE: [Signature] DATE: 5-11-90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 1 m: V. Light 502 m: No Oil 171 m  
Subsurface Oil Observed: Yes      F&G Maximum Depth     

RECOMMENDATIONS:

- No Treatment Recommended
  - X   Treatment Recommended
  - X   Manual Pickup
  - Bioremediation
  - X   Tarmat:      Breakup
  - X   Removal
- are/Absorbent Booms
  - 1 Snares (pom poms)
  - sorbents (pads, rolls, etc)
  - Hot Washing:      Wands
  - Beach Cleaner
  - other (see comments)

COMMENTS: Recommend manual pickup of oiled debris, (debris, trash) between 6/1 and 7/9 with US EPA permission due to eagle constraints.

TAG COMMENTS: \_\_\_\_\_

TAG APPROVAL DATE: 4/23/90  
ADEC ART WEAVER  
EXXON ANDY TER  
NOAA Joseph J. Albatt  
USCG KENNETH KENN

FOSC: [Signature] DATE: 5-11-90

ACE 10459997

ACE 1941221

SHORELINE EVALUATION

SEGMENT ST/ WB-03 SUBDIVISION C (3 of 5) DATE 04/06/90

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 All Bald Eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)
- 8AA Sensitive Estuary
- 7JJ Invertebrate harvesting

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS: Avoid any unnecessary disturbance or damage to unoiled substrate and biota.

ARCHAEOLOGICAL CONSTRAINT: If cultural resources are uncovered during shoreline treatment, stop work in the vicinity, mark the location of the find and contact Exxon's Cultural Resource Program immediately (564-3274 (Anchorage) or 229-1508 (24 hrs.)).

SHPO SIGNATURE: [Signature] DATE: 5/9/90

OILING CATEGORIZATION:

Wide 0 m: Medium 136 m: Narrow 182 m: V. Light 129 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>X</u> Treatment Recommended       | <u>    </u> Oil Snares (pom poms)           |
| <u>X</u> Manual Pickup               | <u>    </u> Absorbents (pads, rolls, etc)   |
| <u>X</u> Bioremediation              | <u>    </u> Spot Washing: <u>    </u> Wands |
| <u>X</u> Tarmat: <u>    </u> Breakup | <u>    </u> Beach Cleaner                   |
| <u>    </u> <u>X</u> Removal         | <u>    </u> Other (see comments)            |

COMMENTS: Recommend tarmat removal and manual pick up of mousse, tarballs and oiled debris (trash, vegetation debris) as indicated in the attached sketch map. Work should be conducted between 6/1 and 7/9, USFWS permitting, due to eagle constraint.

TAG COMMENTS: Following Manual Pickup Bioremediate During Low Tide BUT NOT AT A MINUS TIDE LEVEL.

TAG APPROVAL DATE: 4/23/90

ADEC ART WENGER  
 EXXON ANDY TSE  
 NOAA Joseph LaBott  
 USCG KEVIN KEANE

FOSC: [Signature] DATE: 5-12-90

ACE 10459998

ACE 1941222

SHORELINE EVALUATION

SEGMENT ST/ WB-03 SUBDIVISION D (4 of 5) DATE 04/06/90

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 All Bald Eagle nests (3/1 to 6/1)-Active eagle nest (3/1 to 9/1)
- 8AA Sensitive Estuary
- 7JJ Invertebrate harvesting

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS: Avoid any unnecessary disturbance or damage to unoiled substrate and biota.

ARCHAEOLOGICAL CONSTRAINT: If cultural resources are uncovered during shoreline treatment, stop work in the vicinity, mark the location of the find and contact Exxon's Cultural Resource Program immediately (564-3274 (Anchorage) or 229-1508 (24 hrs.)).

SHPO SIGNATURE: J. David McManis DATE: 5/9/90

OILING CATEGORIZATION:

Wide 0 m: Medium 429 m: Narrow 434 m: V.Light 0 m: No Oil 0 m  
Subsurface Oil Observed: Yes X No      Maximum Depth 7 cm

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>X</u> Bioremediation              | <u>    </u> Spot Washing: <u>    </u> Wands |
| <u>X</u> Tarmat: <u>    </u> Breakup | <u>    </u> Beach Cleaner                   |
| <u>    </u> <u>X</u> Removal         | <u>    </u> Other (see comments)            |

COMMENTS: Recommend tarmat removal and manual pick up of mousse, tarballs and oiled debris (trash, vegetation debris) as indicated in the attached sketch map. Work should be conducted between 6/1 and 7/9, USFWS permitting, due to eagle constraint.

TAG COMMENTS: BIOREMEDIATE COATS AND REMAINING OIL IN AREAS OF MANUAL REMOVAL

TAG APPROVAL DATE: 4/23/90

ADEC Art Weimer  
 EXXON Amy Bear  
 NOAA Joseph Talbot  
 USCG Kenneth Keenan

FOSC: [Signature] DATE: 5/8/90

ACE 10459999 -15/c  
ACE 1941223 -15

Crossed  
out Pink salmon  
Count   
DELETE  
DPA  
10/2/89

ACE 10460000

MAYSAP - Windy Bay "Right Hand Creek"

ADF&G MULTI-ASSESSMENT DATA FORM

ANAD

- 1) SURVEY TYPE:  BS  SS
- 2) REGION: PWS KP, CI R, AP
- 3) METHOD: Aerial  Ground  Boat
- 4) DATE: 5/15/91 16) HIGH TIDE TIME: 0341/11649 22) TEAM RECORDER: Duncan Fitzgerald (06)  
Doug Hill (ADF&G)
- 5) START TIME: 0825 17) HIGH TIDE HTS: 20.7/118.7 23) OBSERVERS: Lee Glenn (ADF&G)
- 6) STOP TIME: 0920 18) LOW TIDE TIMES: 0935/2140 24) AGENCY: \_\_\_\_\_
- 7) SEGMENT #: WB-3B 19) LOW TIDE HTS: -4.7/11.5 25) PHOTOS TAKEN:  Y  N
- 8) K-UNIT: \_\_\_\_\_ 20) TIDE HT AT SURVEY: -3/-3 ROLL #: 91004002 FRAMES: 22-25
- 9) LAT: 59 14 7 Ebb Slack Flood Slack 26) VIDEO TAKEN:  Y  N
- 10) LONG: 151.33 34 21) USCG QUAD: Seldovia A-5 TAPE #: \_\_\_\_\_
- 11) ASC #: 242-32-10160 START: \_\_\_\_\_ STOP: \_\_\_\_\_
- 12) STREAM NAME: Windy Bay "Right Hand Creek" 27) SAMPLES TAKEN?  Y  N
- 13) LOCATION: KPOC, Windy Bay SAMPLE I.D. \_\_\_\_\_
- 14) WAVE EXPOSURE: High  Moderate  Low
- 15) SHORELINE TYPE: Headland  Low-lying Rocks  Beach  Cove  Lagoon  Marsh

28) EXTENT OF OIL

SITE	LENGTH m	WIDTH m	M2	%	THICK cm	PEN cm	OIL TYPE
SITE 1	20	1-2	30	1%	43.5	---	MS/AP
SITE 2	30	2	60	1%	43.5	---	AP
SITE 3	100	6	600	1%	---	---	ST
SITE 4	20	1	20	1%	---	---	M.SDR/shreen
SITE 5							

- 29) OVERALL OIL IMPACT:
- H = >6m band with ≥50% oil coverage
  - M = >6m band with ≤50% oil coverage or ≥3m to ≤6m with ≥10% oil coverage
  - L = <3m band with >10% oil coverage
  - VL = ≤10% oil coverage regardless of band width
  - N = No oil observed
- 30) OIL IN STREAMBED:  Y  N
- 31) OIL ON BEACH ADJACENT TO MOUTH:  Y  N
- 32) SUBSTRATE TYPE (PERCENT):
- Bedrock \_\_\_\_\_ Boulder 10% Gravel 30% Sand 20% Cobble 30% Mud/silt 10%
- 33) ANADROMOUS FISH PRESENT:  Y  N
- 34) WILDLIFE OBSERVATION
- Species \_\_\_\_\_ Number \_\_\_\_\_
- Coyote tracks (1)
- Western Sandpiper

35) COMMENTS: Two workers collected approx. 15 pounds of oiled sediment and more. Further exploration among cobble on beach would turn up more oil, further exploration in vegetation & among mud & rocks would reveal more oil most probably in the area of site 4 on MAP (other side). Oil was dumped into mud in side channel in vicinity of site 4 in 1990 by Exxon work crew (they did a poor job), however the area looks better this year. Sediment along bank of side channel still smells of oil. Softshell clams in this area. Oiled sediment observed in side channel (slough) approx.

FRAME(S)

DESCRIPTION

see MAYSAP Photo location MAP, Gary Shigenaka (NOAA)  
 took photos, Roll 6-15, frames 7-17.

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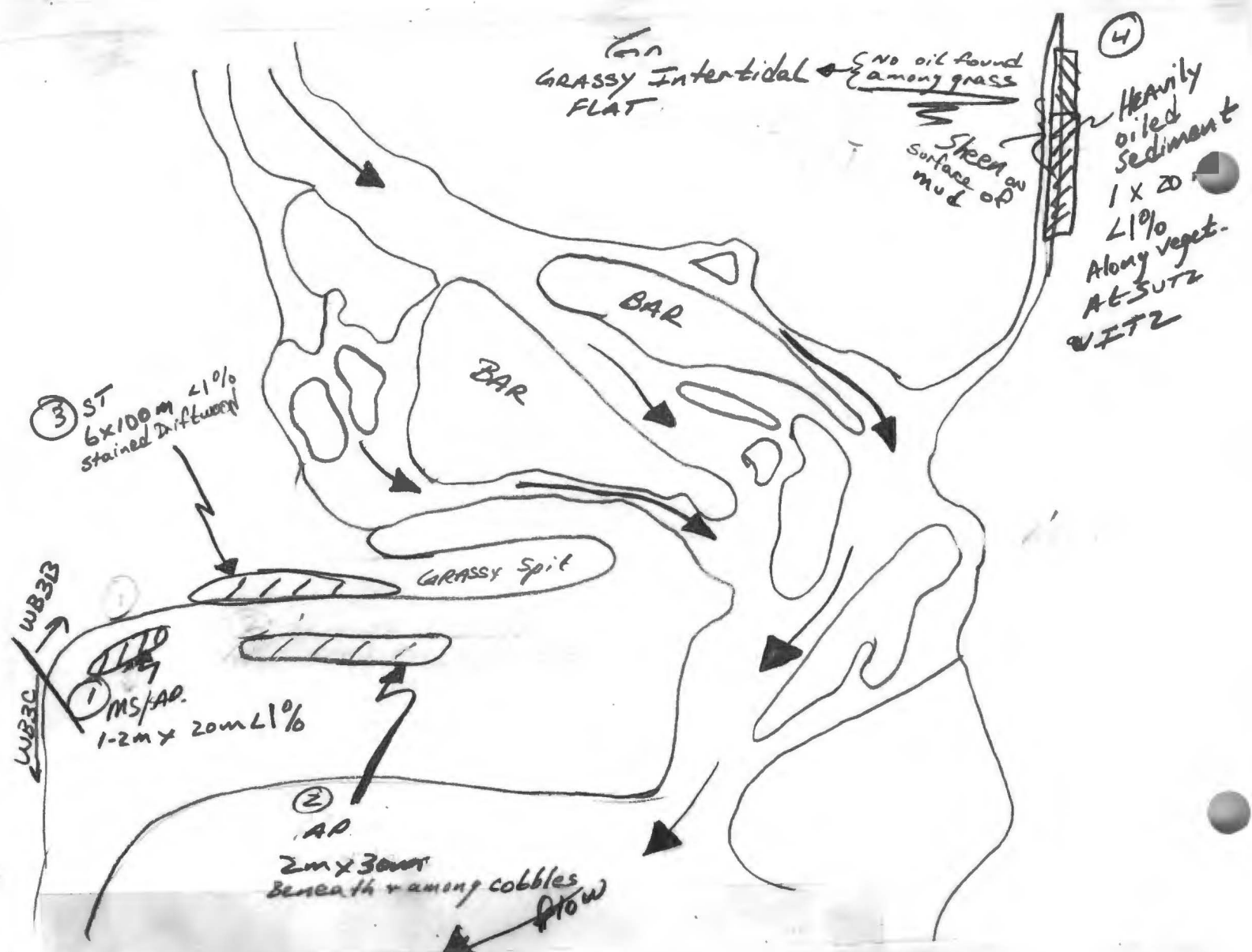


photo frame # and Shot Direction

MAYSAP - Windy Bay  
"Right Hand Creek"

ADF&G MULTI-ASSESSMENT DATA FORM

- 1) SURVEY TYPE: ~~BS~~ ~~SS~~ ANAD
- 2) REGION: PWS KP, CI K, AP OK
- 3) METHOD: Aerial Ground Boat
- 4) DATE: 5/15/91 16) HIGH TIDE TIME: 0341/11649 22) TEAM RECORDER: Duncan Fitzgerald (06) Doug Hill (ADF&G)
- 5) START TIME: 0825 17) HIGH TIDE HTS: 20.7/18.7 23) OBSERVERS: Lee Glenn (ADF&G)
- 6) STOP TIME: 0920 18) LOW TIDE TIMES: 0935/2140 24) AGENCY: \_\_\_\_\_
- 7) SEGMENT #: WB-3B 19) LOW TIDE HTS: -4.7/1.5 25) PHOTOS TAKEN:  Y  N
- 8) K-UNIT: \_\_\_\_\_ 20) TIDE HT AT SURVEY: -3/-3 ROLL #: 9100H002 FRAMES: 22-25
- 9) LAT: 59 14 7 Ebb Slack Flood Slack 26) VIDEO TAKEN:  Y  N
- 10) LONG: 151 33 34 21) USCG QUAD: Seldovia A-5 TAPE # \_\_\_\_\_
- 11) ASC #: 242-32-10160 START: \_\_\_\_\_ STOP: \_\_\_\_\_
- 12) STREAM NAME: Windy Bay "Right Hand Creek" 27) SAMPLES TAKEN?  Y  N
- 13) LOCATION: KPOC, Windy Bay SAMPLE I.D. \_\_\_\_\_
- 14) WAVE EXPOSURE: High Moderate Low
- 15) SHORELINE TYPE: Headland Low-lying Rocks Beach
- Cove Lagoon Marsh

28) EXTENT OF OIL

	LENGTH m	WIDTH m	M2	%	THICK cm	PEN cm	OIL TYPE
SITE 1	20	1-2	30	1%	43.5	—	MS/AP
SITE 2	30	2	60	1%	43.5	—	AP
SITE 3	100	6	600	1%	—	—	ST
SITE 4	20	1	20	1%	—	—	MSR/Sheen
SITE 5							

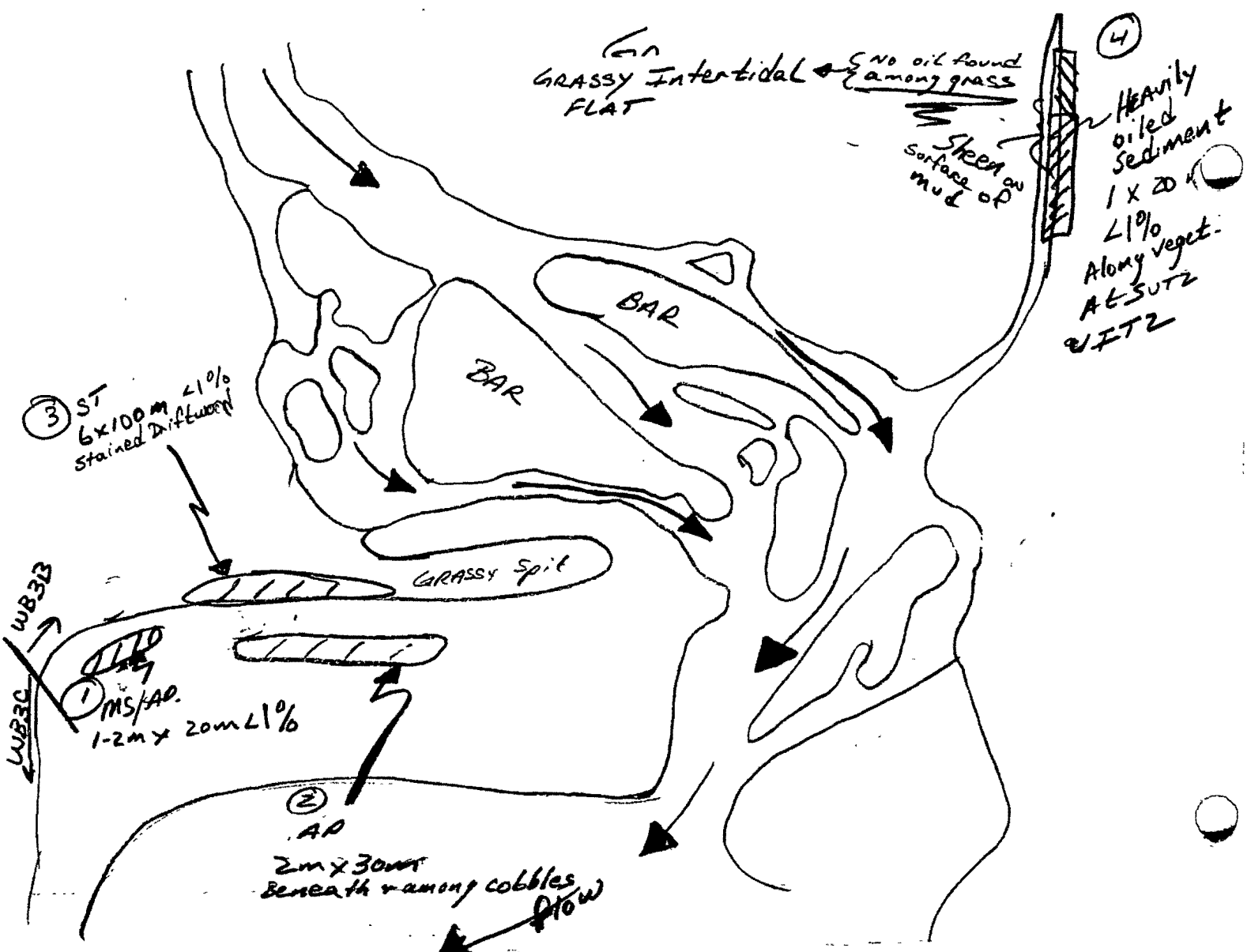
- 29) OVERALL OIL IMPACT:
- H = >6m band with ≥50% oil coverage
  - M = >6m band with ≤ 50% oil coverage or ≥3m to ≤6m with ≥10% oil coverage
  - L = <3m band with >10% oil coverage
  - N = ≤10% oil coverage regardless of band width
  - N = No oil observed
- 30) OIL IN STREAMBED:  Y  N
- 31) OIL ON BEACH ADJACENT TO MOUTH:  Y  N
- 32) SUBSTRATE TYPE (PERCENT):
- Bedrock \_\_\_\_\_ Boulder 10% Gravel 30% Sand 20% Cobble 30% Mud/silt 10%
- 33) ANADROMOUS FISH PRESENT:  Y  N
- 34) WILDLIFE OBSERVATION
- |                   |        |
|-------------------|--------|
| Species           | Number |
| Coyote tracks     | (1)    |
| Western Sandpiper | 20     |

35) COMMENTS: Two workers collected approx. 15 pounds of oiled sediment and morse. Further exploration among cobble on beach would turn up more oil, further exploration in vegetation among mud & rocks would reveal more oil most likely in the area of site 4 on MAP (other side). Oil was slumped into mud in side channel in vicinity of site 4 in 1990 by Exxon work crew (they did a poor job) however the area looks better this year. Sediment along bank of side channel still smells of oil. Softshell clams in this area. Oiled sediment observed in side channel (slough) approx.

FRAME(S)

DESCRIPTION

See MAYSAP Photo location MAP, Gary Shigenaka (NOAA) took photos, Roll 6-15, frames 7-17.





ADF&G MULTI-ASSESSMENT FORM  
1991 GENERAL ENTRY CHECKLIST

NOAA  
10/9/91



X

STREAM#: 2423210160  
SEGMENT: WB003B

PAGE 7

DATE PRINTED: 07/29/91

LOCATION: WINDY BAY

SURVEY TYPE: 91 MAYSAP - ~~SS~~ SS

METHOD: GROUND FOOT

DATE: 05/15/91

TEAM RECORDER: HILL FITZGERALD

START TIME: 0825  
END TIME: 0920

OBSERVERS: GLENN

TIDES: 73/03 Ebb  
OG/HAB DISCREPANCIES: -

AGENCY: FG

PHOTOS TAKEN: Y

STATION: 2423210160

ROLL#: 91DDH002H / NOAA 6-15  
FRAME: 22-25 7-11

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: MOD

SHORELINE TYPE: BEACH

SUBSTRATE TYPE: BEDROCK -0- BOULDER 10 COBBLE 30 VEGETAT -0-  
GRAVEL 30 SAND 20 MUD/SILT 10 GRANULE -0-

ANADROMOUS FISH PRESENT: -

SPECIES: WESTERN SANDPIPER COUNT: -0- 20  
-0- -0-  
-0- -0-  
-0- -0-

ADF&G MULTI-ASSESSMENT FORM  
 1991 OILING ENTRY CHECKLIST

U

PAGE 9

DATE PRINTED: 07/29/91

STREAM# : 2423210160  
 SEGMENT#: WB003

X

SURVEY TYPE : 91 MAYSAP - ~~B~~ Ss LOCATION: WINDY BAY  
 DATE: 05/15/91  
 TIMES: 0825 - 0920 TEAM RECORDER: HILL FITZGERALD

-- OILING EXTENT --

SITE#	SITE TYPE	DEPTH (cm)	LENGTH (m)	WIDTH (m)	AREA (m)	%	THICK (cm)	PEN (cm)	OIL TYPE CODES
1	-0-	-0-	20	1-2	30	1	<3.5	-0-	MS AP
2	-0-	-0-	30	2	60	1	<3.5	-0-	AP
3	-0-	-0-	100	6	600	1	-0-	-0-	ST
4	-0-	-0-	20	1	20	1	-0-	-0-	MSOR SHEEN

ADF&G MULTI-ASSESSMENT FORM  
1991 OILING ENTRY CHECKLIST

✓  
X

PAGE 10

DATE PRINTED: 07/29/91

COMMENTS:

VECO WORKERS COLLECTED APPROX 15 POUNDS OF OILED SEDIMENT AND MOUSSE. FURTHER EXPLORATION AMONG COBBLE ON BEACH WOULD TURN UP MORE OIL, FURTHER EXPLORATION IN VEGETATION AND AMONG MUD AND ROCKS WOULD REVEAL MORE OIL MOST PROBABLY IN THE AREA OF SITE #4 ON MAP (OTHER SIDE). OIL WAS STOMPED INTO MUD IN SIDE CHANNEL IN VICINITY OF SITE #4 IN 1990 BY EXXON WORK CREW (THEY DID A POOR JOB), HOWEVER, THE AREA LOOKS BETTER THIS YEAR. SEDIMENT ALONG BANK OF SIDE CHANNEL STILL SMELLS OF OIL. SOFT SHELL CLAMS IN THIS AREA. OILED SEDIMENT OBSERVED IN SIDE CHANNEL (SLOUGH) APPROX 500M UPSTREAM.

Coyote tracks observed on ~~near~~ shore of stream.

\_\_\_\_\_

1991 MAYSAP EVALUATION

ASC# 24232-10160

SEGMENT: WB 003 SUB: B REGION: KEN SURVEY DATE: 5/15/91

ENVIRONMENTAL SENSITIVITIES:

Work Window(s) RESTRICTED 3/1 - 9/15

Ecological/Constraints (see page two for details) Eagle nest, Fish harvest area, Anadromous stream, Subsistence - Invertebrate harvesting

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO Signature: \_\_\_\_\_ Date: \_\_\_\_\_

RECOMMENDATIONS:

	INITIAL	TAG	FOSC
TREATMENT REQUIRED (Y or N)	<u>N</u>	<u>N</u>	_____
Manual Pickup (Check as Req.)	_____	_____	_____
Spot Washing	_____	_____	_____
Bio-Customblen Only	_____	_____	_____
Bio-Inipol/Customblen	_____	_____	_____
Other _____	_____	_____	_____
Other _____	_____	_____	_____

COMMENTS:

INITIAL: NTR

TAG: NTR

FOSC: \_\_\_\_\_

TAG APPROVAL DATE: 5/24/91

FOSC APPROVAL DATE: \_\_\_\_\_

ADEC \_\_\_\_\_

FOSC \_\_\_\_\_

EXXON \_\_\_\_\_

USCG \_\_\_\_\_

NOAA \_\_\_\_\_

**ECOLOGICAL CONSTRAINTS  
1991 FIELD ACTIVITIES**

**Eagle Nest:** Access restricted from 3/1 to 9/1. USF&WS authorization required. Maintain 1000' vertical and 1/4 mile horizontal buffer.

**Fish Harvest Area:** Unlimited treatment unless otherwise directed by ADF&G. Sheen containment/recovery procedures required for mechanical treatment.

**Anadromous Stream:** Unlimited treatment up to stream bank between May 15 and July 10. ADF&G approval required for work after July 10. Fish Habitat Permit required for instream work. ADF&G approval required for bioremediation within 100 meters of anadromous stream after July 10.

**Subsistence, Invertebrate Harvesting:** Unlimited treatment except avoid disturbance of clam/mussel beds unless specifically directed by TAG Work Order.

242-32-10160

**ADEC**

NAME Doug Hill-ADF&G SIGNATURE Douglas D Hill

NTR Patches of AP remain on the beach ("Main Beach") to the South of the stream mouth - A more detailed exploration would most likely reveal more oil. Trace oil remains on the north shore approximately 200 meters upstream of the stream mouth.



**EXXON**

NAME Rex Coulter SIGNATURE Rex R. Coulter

NTR THE SURFACE LOOKS EXCELLENT. AN EXERCISE IN TURNING OVER COBBLES REVEALED SMALL, SPORADIC AREAS OF VERY LIGHT SOR. ADF&G RESP. RECOVERED 2 POM B POMS, AND THE VECO WORKERS COLLECTED ALL OTHER RECOVERABLE OILED SEDIMENTS, DEBRIS AND ONE SMALL PATCH OF MOUSSE.



**LANDMANAGER**

NAME Seraphim Megranick OF Port Graham SIGNATURE Seraphim

NTR BY THE DEAD TREES MOUSSE/SOR 1x2 meters wide x 20 meters long upper intertidal zone going back towards the GORTS MID INTERTIDAL ZONE 2x4 meters wide 7 meters long sor drift line stained wood 100 meters crossed the stream 1x20 meter sor in frequent along grass high angle slope supra tidal zone



**USCG/NOAA**

NAME Chief Jason Gary Shigenaka SIGNATURE Jason Gary Shigenaka

NTR <sup>has been removed from this site. Have to search very closely for any traces</sup> of oil. Further removal operations would cause more environmental harm than the trace of oil to be removed.



SURVEYED PORTION OF THE SEGMENT CONSISTED OF A COBBLE BEACH THAT OPENED OUT ONTO A BROAD TIDAL FLAT WITH AN EELGRASS BED, AND A WIDE SALT MARSH THROUGH WHICH A MULTI-CHANNEL STREAM FLOWED. THIS AREA WAS HEAVILY OILED IN 1989. SOME PATCHY SOR WAS OBSERVED AND RECOVERED/BROKEN UP ON THE COBBLE BEACH THE ONLY OTHER AREA WHERE OILING WAS EVIDENT WAS IN COBBLE RUBBLE BORDERING THE NORTHERN SIDE OF THE SALT MARSH, WHERE SOR AND A WEATHEKED MOUSSE PATTY WERE FOUND.

# MAYSAP SHORELINE OILING SUMMARY

TEAM NO. 6-HeLo

SEGMENT WB03

OG D. Fitzgerald

BIO T. Schroeder

SUBDIVISION B

ADEC Doug Hill of ADFG

LANDMANAGER S. McGRANICK for GRAHAM <sup>Port</sup>

DATE 15 May 1991

EXXON R. Coulter

USCG/NOAA Chief Jensen / G. SHIGENAKA

TIME 8:25 to 9:20

TIDE LEVEL -3 ft. to -3 ft.

ENERGY LEVEL:  H  M  L

SURVEYED FROM:  FOOT  BOAT  HELO

WEATHER:  SUN  CLOUDS  FOG  RAIN  SNOW

TOTAL LENGTH SHORELINE SURVEYED: 1092 m

NEAR SHORE SHEEN:  BR  RB  SL  NONE

EST. OIL CATEGORY LENGTH: W      m M      m N      m VL 140 m NO 952 m US      m

Light  
Light

L O C	SURFACE OIL CHARACTER										SURFACE SEDIMENT TYPE	SHORE SLOPE VHML	AREA		ZONE				NOTES
	AP	MS	TB	SOR	CV	CT	ST	FL	DB	NO			WIDTH m	LENGTH m	S	UI	MI	LI	
A		T		T							B-SFG	L	2	20		X			I/U Around dead trees
B							T				V-Logs	L	6	100	X				Storm wrack line
C				T							B-C	L	3	70			X		I/U middle of Beach above
D				T							V-logs	L	1	20	X				SUTZ IN GRASS slope coastal

DISTRIBUTION: C = 91-100%; B = 51-90%; P = 11-50%; S = 1-10%; T = <1%

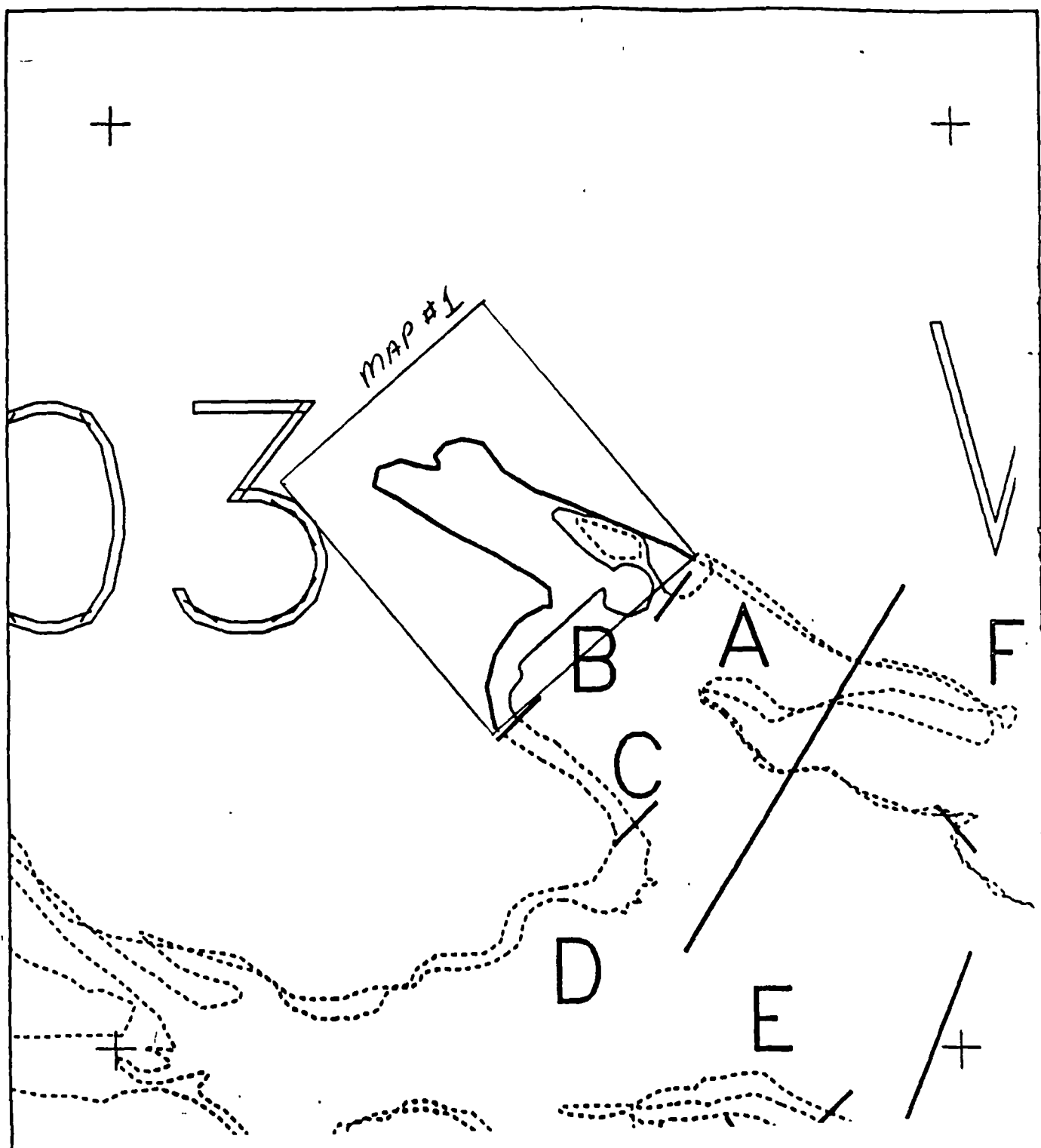
SLOPE: V = VERTICAL; H = HIGH ANGLE; M = MEDIUM ANGLE; L = LOW ANGLE PHOTO ROLL # MAYSAP- 6-15 FRAMES 7-11

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER							OILED ZONE cm-cm	CLEAN BELOW Y/N	H2O LEVEL (cm)	SHEEN COLOR B R S N	PIT ZONE				SURFACE- SUBSURFACE SEDIMENTS	NOTES
		OP	HOR	MOR	LOR	OF	TR	NO					S	UI	MI	LI		

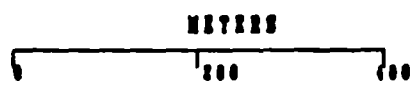
SHEEN COLOR: B = BROWN; R = RAINBOW; S = SILVER; N = NONE

**OG COMMENTS:** This segment is located at the west end and head of WINDY BAY, consisting of a short beach with an indented ANN. STREAM EMBAYMENT. The stream is braided and empties into a broad tidal flat region. The oiling of this area was documented at four sites, including: 1) SOR and MS at the southern end of the beach between and under boulders, 2) stained driftwood in the SUTZ (100m length), 3) Trace amount of SOR along 70m of b-c beach in the MITZ above the focus zone, and 4) a narrow 20m length of SOR along the northern slope of the ANN. Stream. VECO worker collected a 1/2 bag of mousse and oiled sediment from this segment and removed all see. i accessible oil.

Reviewed 5.17.91 fj  
26 reviewed 5/17



WB003 B



AK State Planning Zone 4  
Sub003B

Subdivision Field Map  
 Map Key: KENWB003B  
 Name: D. FITZGERALD  
 Date: 15 MAY 1991

reviewed 5/17/91  
 reviewed 5/17



- Y DEAD TREES
- EVERGREENS
- LOGS
- X Bedrock slope/cliff
- PHOTO SITES

ANAD. STREAM  
# 247-70-1016

SKETCH MAP: 06,  
WB-3-13  
D. FITZGERALD  
8:25 - 9:20 AM  
15 MAY 1991

KENAI PENINSULA



SUNKEN FOREST

MARSH GRASS

VEGETATED SLOPE

D. SOR  
1 by 20m, <1%  
along veget. slope at SURZ

RUBBLE

S-G-M

vegetated slope

steep slope

B. SF  
6 by 100m, <1%  
Weathered stained  
Driftwood

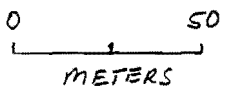
Boulders on  
S-G-P

Cobble-Boulder Beach

A. MS/SOR  
1-2 by 20m, <1%  
I/U IN THE UTLZ  
RB-5 SHEENS

C. SOR  
2-4 by 70m, <1%  
Band ABOVE Fucus  
LINE, I/U AROUND  
Boulders + Cobbles

PU. \* ALONG THIS SEGMENT  
VECO WORKERS collected  
1/2 bag of mousse and  
oiled sediment and  
3 pom-poms.



EXPANSIVE  
TIDAL  
FLAT  
(sand and mud)

WINDY  
BAY

WB-3F

Reviewed 5.17.91  
& revised 5/17

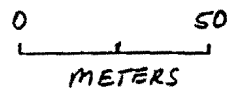
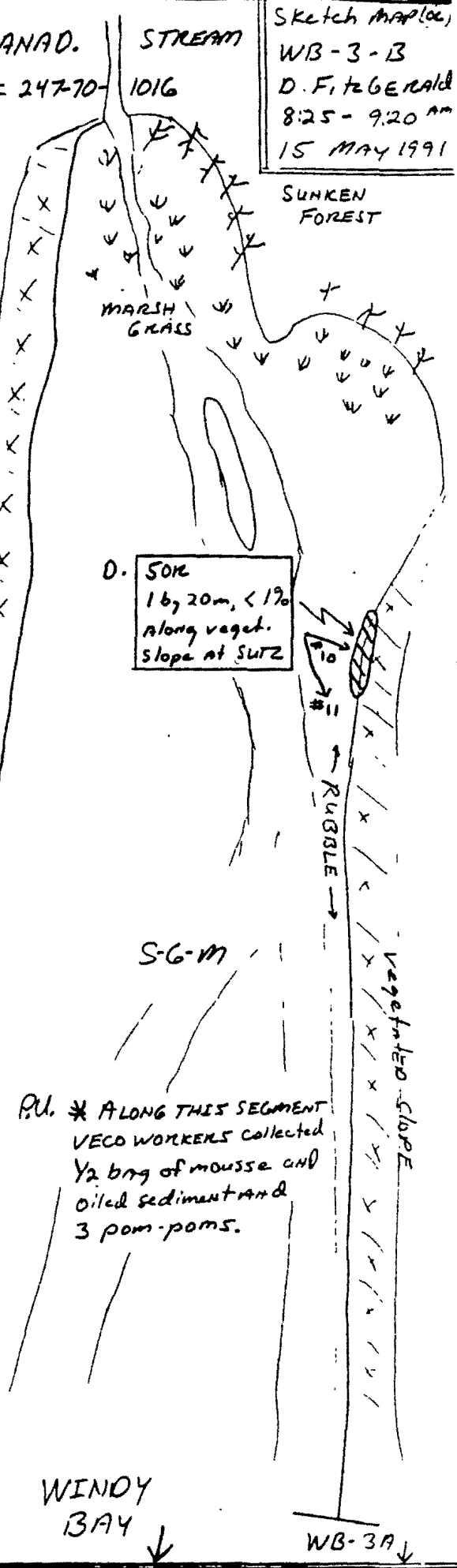
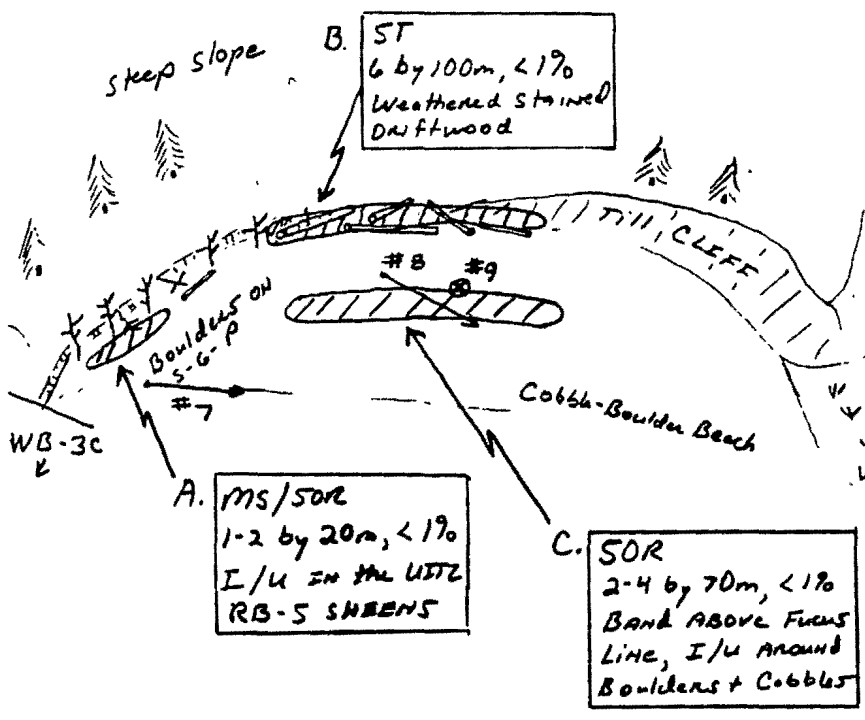
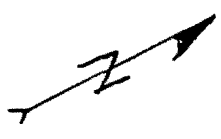
- Y DEAD TREES
- EVERGREENS
- LOGS
- X Bedrock Slope/Cliff
- PHOTO SITES

PHOTO SITES, WB-3B  
ROLL 6-15, FRAMES 7 THRU 11

ANAD. STREAM  
# 247-70-1016

Sketch MAP (loc)  
WB-3-B  
D. Fitzgerald  
8:25 - 9:20 AM  
15 MAY 1991

KENAI PENINSULA



EXPANSIVE  
TIDAL  
FLAT  
(sand and mud)

WINDY BAY

reviewed 5.17.91 T

MAYSAP BIOLOGICAL SUMMARY FORM

TEAM # 6 DATE 5/15/91  
 SEGMENT # WB-003 TIDAL HEIGHT (Range) -3.5 ft  
 SUBDIVISION B BIOLOGIST T. R. Schroeder  
 SEA STATE light chop WIND SPEED/DIRECTION West = 5-10 mph  
 PHOTOGRAPHS: ROLL # FRAME #

COMMENTS/OBSERVATIONS (to be completed in oiled subdivisions only):

(A, B & C) = Fucus kept mixed with sea lettuce is growing very well along the entire beach segment south of the anadromous stream. Limpet, sand dollar and barnacles are abundant throughout the fucus beds. Spore mussel regrowth is occurring and Littorina snails are in masses very present but not numerous. The remaining oil does not appear to be affecting reestablishment of the plant and animal communities in this area. The HTZ and extensive mud flats were being utilized by large flocks of sandpipers and were extremely high environments. None of this oil is within 300 yards of the intertidal spawning area of the stream.

(D) = Intertidal beach grasses and fucus beds were thriving on the north side of the anadromous stream. A large bed of red tide was located in a bank, mud slough.

This is an extremely good producing anadromous stream which supports several species of salmon. The intertidal spawning grounds were never affected by the spill and the area appears clean and as good as new. None of the remaining traces of oil will affect salmon spawning.

WILDLIFE OBSERVATIONS  
 TO BE COMPLETED IN ALL SUBDIVISIONS

BIRDS	# OF SPECIES	TOTAL BIRDS	FISH OBSERVED SPECIES PRESENT
Eagles			
Seabirds			
Waterfowl			
Gulls/Kittiwakes	1 gull	12	
Shorebirds	1 sandpiper	250	
Corvids			
Other Birds			

MARINE MAMMALS	# OBSERVED	LAND MAMMALS SPECIES	# OBSERVED
Sea Otters			
Pinnipeds (specify)			
Whales (specify)			

Shoreline subdivision map showing important biological features attached.

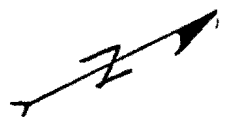
O.I.O. Map WB-003-B  
5/15/91 T.R. Schroeder

ANAD. STREAM  
# 24770-1016

SKETCH MAP  
WB-3-B  
~~8:25-9:20 AM~~  
8:25-9:20 AM  
15 MAY 1991

- Y DEAD TREES
- EVERGREENS
- LOGS
- X Bedrock Slope/Cliff
- PHOTO SITES

Fucus Kelp



KENAI PENINSULA

SUNKEN FOREST  
MARSH GRASS

D. SOR  
1 by 20m, <1%  
along veget.  
slope at SURZ

B. ST  
6 by 100m, <1%  
Weathered stained  
Driftwood

A. MS/SOR  
1-2 by 20m, <1%  
I/U IN THE USTZ  
RB-5 SHREWS

C. SOR  
2-4 by 70m, <1%  
BANK ABOVE FUCUS  
LINE, I/U AROUND  
BOULDERS + COBBLES

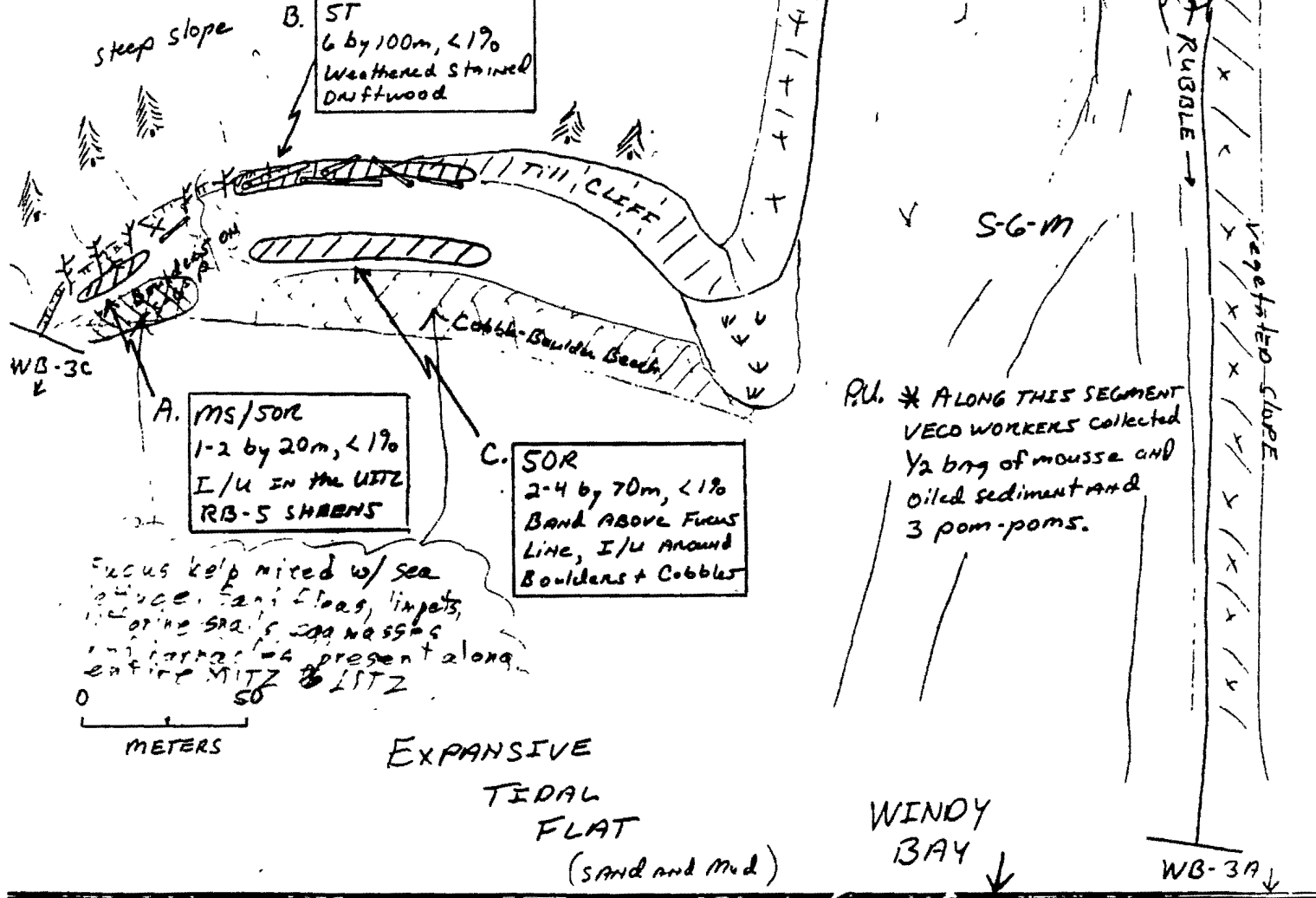
P.U. \* ALONG THIS SEGMENT  
VECO WORKERS collected  
1/2 bag of mousse and  
oiled sediment and  
3 pom-poms.

Fucus kelp mixed w/ sea  
pence, fan clams, limpets,  
orange sponges, sea masses  
and other life present along  
entire MITZ & LITZ

METERS

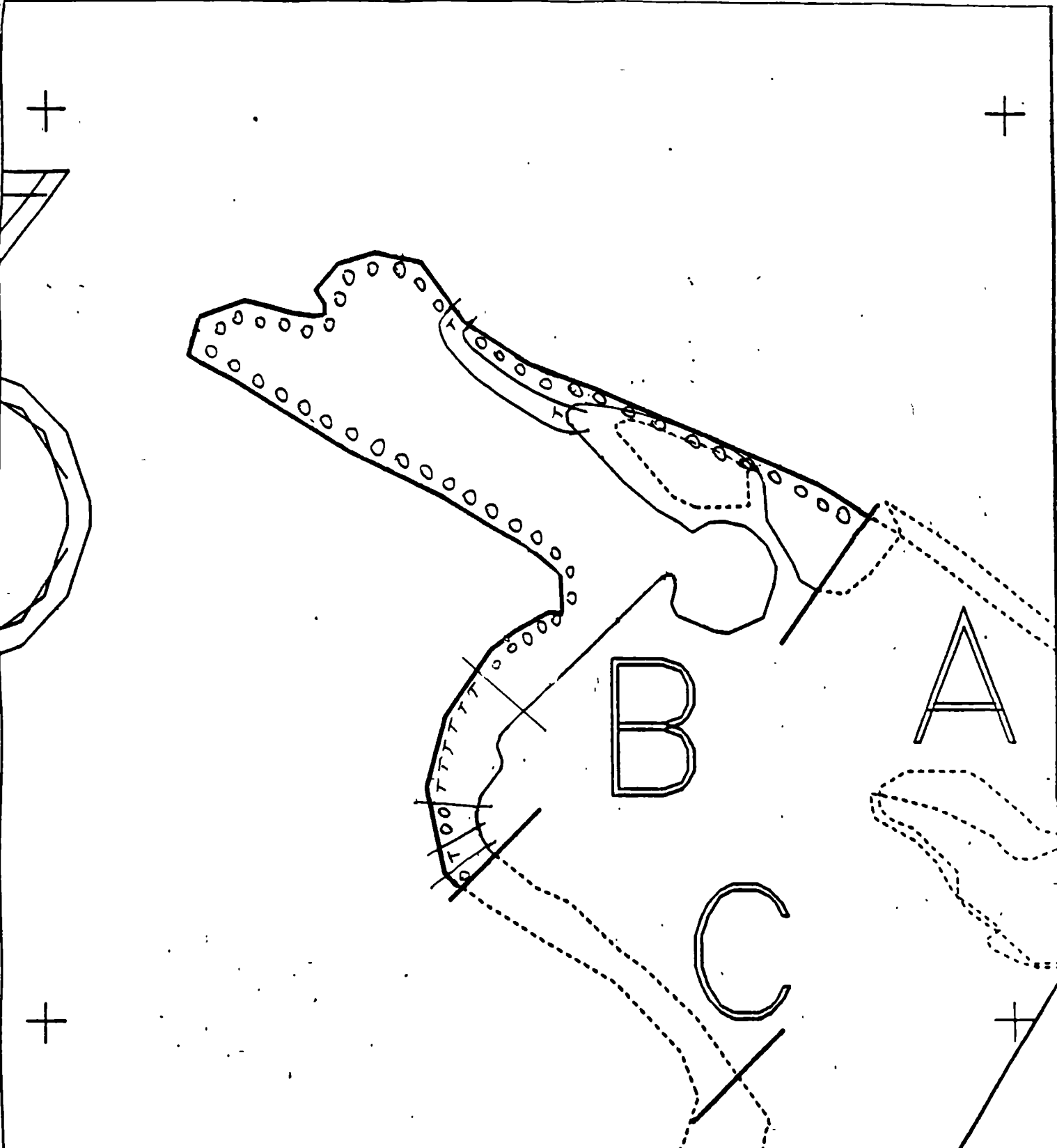
EXPANSIVE  
TIDAL  
FLAT  
(sand and mud)

WINDY  
BAY



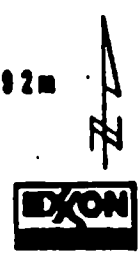
WB-3C

WB-3A



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

**WB-3 B**  
 ADEC Subsegment Length: 1002m  
 METERS  
 0 100 177  
 AK State Plane Zone 4 1:3400  
 sub-36



Subdivision Field Map  
 Map Key: KENWB-3B  
 Name: D. FITZGERALD  
 Date: 15 MAY 1991  
 Date Entered:

reviewed 6.17.91 94  
 EC revised 5/17



Date: 5/15/91 No. 902

Title: WB003B





Segment No WB-3 Subdivision B

Date 5/15/91 Log Frame No 9

Photographer GARY SHIGENAKA

Location WINDY BAY

Comments SOR FOUND IN COBBLE BEACH ABOUT  
5 M NORTHEAST OF LOCATION FOR #8

Roll No MAYSAP-6-15 Neg. No 8

Control No 902 (Office Use Only)



Segment No WB-3 Subdivision B  
Date 5/15/91 Log Frame No 7  
Photographer GARY SHIGENAKA  
Location WINDY BAY  
Comments VIEW FROM SOUTH END OF SURVEYED  
PORTION OF THE SEGMENT, FACING NORTH ACROSS  
BEACH.  
   
   
Roll No MAYSAP-6-15 Neg. No 6  
Control No 902 (Office Use Only)





Segment No WB-3 Subdivision B

Date 5/15/91 Log Frame No 10

Photographer GARY SHIGENAKA

Location WINDY BAY

Comments VIEW OF COBBLE SHORELINE BORDERING  
SALTMARSH - SOR WAS FOUND IN THIS SUBSTRATE

Roll No MAYSAP-6-15 Neg. No 9

Control No 902 (Office Use Only)



Segment No WB-3 Subdivision B

Date 5/15/91 Log Frame No 8

Photographer GARY SHIGENAKA

Location WINDY BAY

Comments VIEW DOWN APPROXIMATE AXIS OF

OILING AS RECALLED BY LEE GLENN, ADFEG;

ORIENTATION IS NORTHEAST

Roll No MAYSAP-6-15 Neg. No 7

Control No 902 (Office Use Only)



Segment No WB-3 Subdivision B  
Date 5/15/91 Log Frame No 11  
Photographer GARY SHIGENAKA  
Location WINDY BAY  
Comments SAME LOCATION AS PHOTO #10. ROTATED  
CLOCKWISE TO GIVE BROADER AREA VIEW

Roll No MAYSAP-6-15 Neg. No 10  
Control No 902 (Office Use Only)

Date: 5/15/91 No. 902

Title: WB003B

1991 MAYSAP EVALUATION

maysap - Y  
2423210160



SEGMENT: WB 003 SUB: B REGION: KEN SURVEY DATE: 5/15/91

ENVIRONMENTAL SENSITIVITIES:

Work Window(s) RESTRICTED 3/1 - 9/15

Ecological/Constraints (see page two for details) Eagle nest, Fish harvest area, Anadromous stream, Subsistence - Invertebrate harvesting

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO Signature: Rachel Jan Dan Date: 5/24/91

RECOMMENDATIONS:	INITIAL	TAG	FOSC
TREATMENT REQUIRED (Y or N)	<u>N</u>	<u>N</u>	<u>N</u>
Manual Pickup (Check as Req.)	_____	_____	_____
Spot Washing	_____	_____	_____
Bio-Customblen Only	_____	_____	_____
Bio-Inipol/Customblen	_____	_____	_____
Other _____	_____	_____	_____
Other _____	_____	_____	_____

COMMENTS:

INITIAL: \_\_\_\_\_

TAG: \_\_\_\_\_

FOSC: \_\_\_\_\_

TAG APPROVAL DATE: MAY 24 1991 FOSC APPROVAL DATE: 6/1/91

ADEC [Signature] FOSC [Signature]

EXXON [Signature] E. E. PAGE, CDR, USCG  
CHIEF OF STAFF FOSC

USCG [Signature]

NOAA [Signature]

MAY 5 8P



1991 STATE WORK ORDER  
EXXON VALDEZ OIL SPILL PROJECT  
STATE OF ALASKA

KENAI

SEGMENT: WB003

SUBDIVISION: B

SITE:

RECOMMENDED TREATMENT:

No treatment recommended at this time.

ENVIRONMENTAL SENSITIVITIES:

WORK WINDOW: -

CLEANUP PLAN AND COST ESTIMATE DUE:

DATE SUBMITTED: 05/24/91

STATE ON SCENE COORDINATOR:

