

KN-205B asc 16860
Bay of Isles

ACE 1369627

need
205 A
see if it exists.

DOCUMENTS IN STREAM FILES

ASC# _____ Segment # _____

____ '89 Intertidal Assessment Survey, Sport/Com. Fish
____ '89 Shoreline Clean-Up Program (SAT)
____ '89 Anadromous Fish Stream Authorization, for instream work
____ '89 Stream Treatment Reports
____ '89 Demobilization Reports ____ Bioremediation ____ other
____ '89 RLS Sheet ____ Oil sed. sample ____ Egg sample
____ '89 Fall Walk-a-thon Survey, ADEC
____ '89 Winter Assess. Study Site ____ Winter Stream Survey Form
____ '89 Other Documents _____

____ '90 Pre-Anadscat Survey, multi-assessment form
____ '90 Anadscat Survey
____ '90 Anadromous Fish Stream Evaluation (work order)
____ '90 Anadromous Fish Stream Addendum to work order
____ '90 Shoreline Evaluation, SAT and work order for segment
____ '90 Anadromous Fish Stream Authorization, Title 16 permit
____ '90 Stream Treatment Report
____ '90 ADEC Demobilization Report for Bio
____ '90 ADF&G Oiling Condition Survey, for ASAP use (Aug. Surv.)
____ '90 ASAP Survey ____ ASAP Rec. ____ ADEC Rec. (Feb.)
____ '90 Other Documents _____

OG SUPPLEMENTAL INFO TO MAD

REC-DATE: 10/9/91

PAGE

STREAM NAME:

SEGMENT NUMBER: KN205

SHORELINE TYPE:

DATE: 4/22/91

OG vs. MAD:

no conflicts

[illegible]

ALASKA DEPT. OF
FISH & GAME

APR 30 1990

ADF&G MULTI-ASSESSMENT DATA FORM

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

2 REGION: PHS KP CI K,AP

REGION II
HABITAT DIVISION

METHOD: Aerial Ground Boat

3 DATE: 4-27-90

15 HIGH TIDE TIMES: /

21 TEAM RECORDER: Aimee Weseman

4 START TIME: 0905

16 HIGH TIDE HTS: /

22 OBSERVERS: Rick Gustin

5 STOP TIME: 1005

17 LOW TIDE TIMES: /

23 AGENCY: ADF&G

6 SEGMENT #: KN-205

18 LOW TIDE HTS: /

24 PHOTOS TAKEN: Y N

7 STATION #: _____

19 TIDE HT AT SURVEY: _____

Roll #: _____ Frame: _____

8 K-UNIT: _____

Ebb Slack Flood Slack

25 VIDEO TAKEN: Y N TAPE#: _____

9 STAT AREA: _____

20 USCG QUAD: S B 2

Start: 984 End: 1057

10 LAT: _____

11 LONG: _____

26 SAMPLES TAKEN? Y N Number _____

12 SOURCE: Map Loran

Oil _____

13 LOCATION: Knight I - South Arm, Bay of Isles

Sediment _____

14 DESCRIPTION: _____

Biological _____

Water _____

EXTENT OF OIL

	SHORELINE				STREAM			
	L	W	M ²	%	L	W	M ²	%
27 SURFACE COVERAGE								

36 CATALOGED ANAD. FISH SREAM? Y N

	L	W	M ²	%	L	W	M ²	%
28 SURFACE THICKNESS	4cm	6cm						

37 CATALOG #: 226-30-16860

	L	W	M ²	%	L	W	M ²	%
29 PENETRATION								

38 STREAM NAME: _____

30 OVERALL OIL IMPACT: N VL L M H

39 OIL IN STREAM BED? Y N

31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain

40 OIL ON STREAM BANKS? Y N

32 OILED DEBRIS? Y N snow covering SFTZ

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

42 OIL WITHIN 1 MILE OF STREAM? Y N

33 SHORELINE TYPE: Headland Low-lying Rocks Beach Cove

Where: _____

34 WAVE EXPOSURE: High Moderate Low

43 ANADROMOUS FISH PRESENT? Y N

35 SUBSTRATE TYPE: Bedrock Rock Boulder 10 Cobble 40

44 ANADROMOUS FISH OBSERVATION
Species Aerial Ground

Gravel 40 Sand 10 Mud/silt _____

Species	Aerial	Ground

COMMENTS: a large, flat rock/cobble beach. Oil noted includes a narrow band of scattered tar balls & patties on the east side of stream along the MITZ and an intermittent tar band, 50m x 2m x 4cm deep along the UTTZ on the west side of the stream. Included in this band on it's near stream edge is an area of continuous soft asphalt pavement - approx 4m x 1m x 6cm deep

ACE 7378952 +/S

snow is covering the SITZ on the east side of stream -
could not look for oiling

45 PHOTOLOG

39/53
KN 805

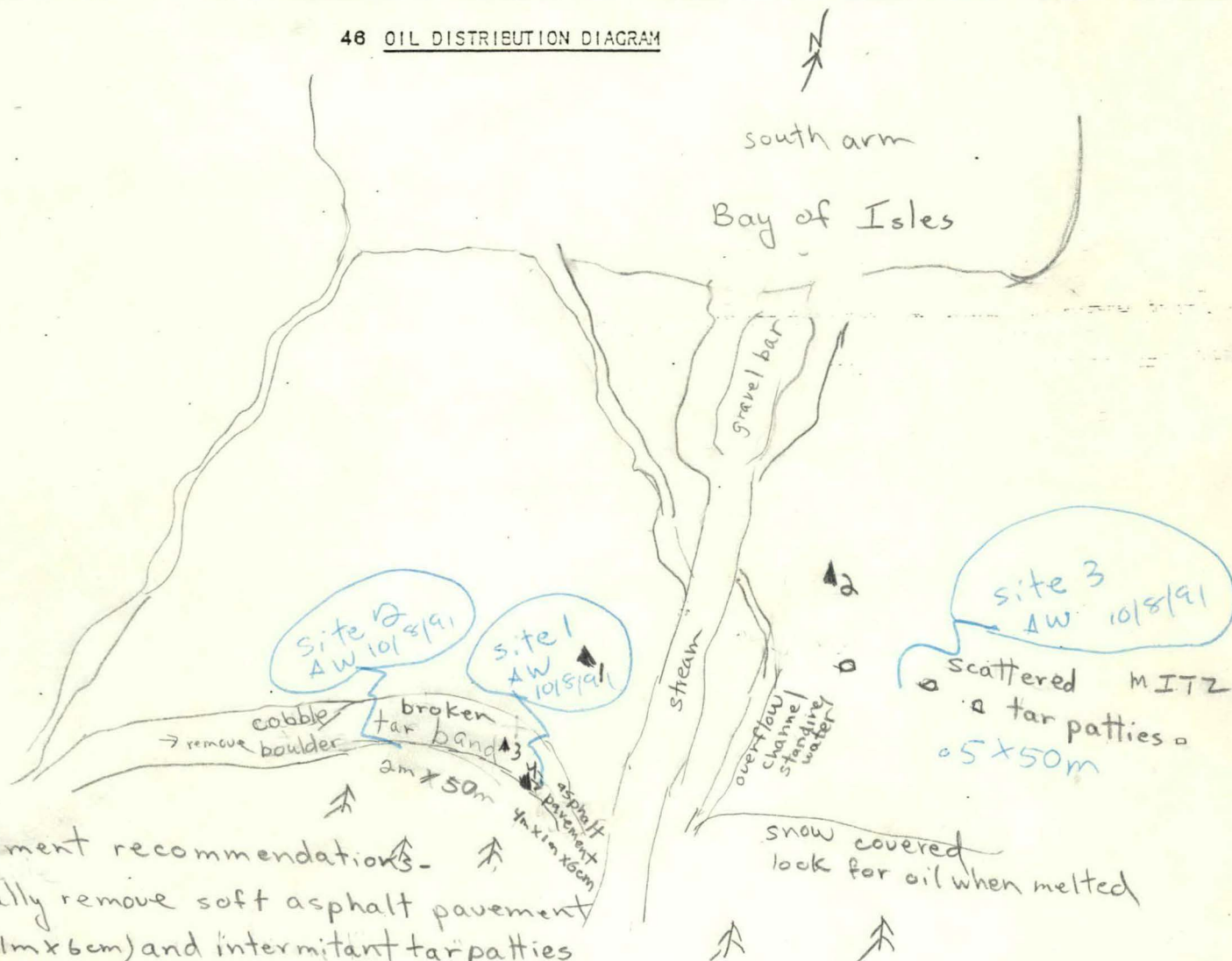
226-30-16860

FRAME(S)

DESCRIPTION

pit 1 - 22cm - no visible oil
pit 2 - 20cm - no visible oil
pit 3 - 16cm - 4cm oil
pit 4 - 12cm - 6cm oil

46 OIL DISTRIBUTION DIAGRAM



Treatment recommendations -
Manually remove soft asphalt pavement
(4m x 1m x 6cm) and intermittent tarpatties
(50m x 2m) along the UITZ on the west
side of the stream

Remove scattered tar patties in thin line
50m x .5m along the MITZ on the east side of
stream

check for oiled debris along the SITZ and remove
any encountered (now snow-covered)

Sample taken

Photo frame # and
shot direction.

ACE 7378953

SHORELINE OILING SUMMARY (NAD)

53/52
REVISION NO: 04/13/90

OG CAL LARSON USCG DREHER, CWE SEGMENT ST/ KN-205
 BIO KEN CRITCHLOW LAND REP STREAM 16200 (OF)
 EXXON AL SNOOK ADFG ELK GUSTIN-AIMEE WESEMAN TIME 09 05 1009:40
 TEAM NO. 14 TIDE LEVEL -3 FT DATE 4 127 190
 EST. SUBDIVISION LENGTH: 60 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☐ Forest ☐ Rock
 SURVEYED FROM: ☐ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R % B % C 30 % P 30 % G 30 % S 10 % M % V %
 SLOPE: Lang 95 % Hang 5 % Vert % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W 5 m M 20 m N m VL 15 m NO 20 m

SURFACE OIL

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

PAVEMENT H F (S) 5X4 sq. m by .6 cm.PATTIES / TARBALLS 10 BAGSNEAR SHORE SHEEN? (NO) BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation	✓		
Trash			
Debris			

Did you COLLECT DEBRIS
☐ YES ☒ NOTYPE #BAGS

Photographs:

Roll No. 9Frames 19-27

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CD)	BELOW		OIL / FILM COLOR								PIT ZONE				A N A	SHEEN (Y/N)	⚠	SURFACE - SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UO	UC	SBL BR	ORL BR	FW GY	SL SL	DBL TL	LR	SU	U	M	U						
1	22					✓	.								✓										CB, PB, GR, SD, CB, PB, GR, SD
2	20					✓	.										✓								PB, GR, SD/ PB, GR, SD
3	16					✓	.								✓										BD, CB, PB, GR, SD, BD, CB, PB, GR, SD
4	14	✓					5-6	✓	✓						✓										CB, PB, GR, SD, CB, PB, GR, SD
							.																		
							.																		

COMMENTS

REVIEWED DATE

ACE 7378949

OG CALLARSON

SEGMENT STI KN 205

STREAM 16860

DATE 4 127 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)
- ☐ Plt Location(s)
- ☐ Photo Location(s)

LEGEND

1 ▲

Plt - No Subsurface Oil

2 ▲

Plt - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

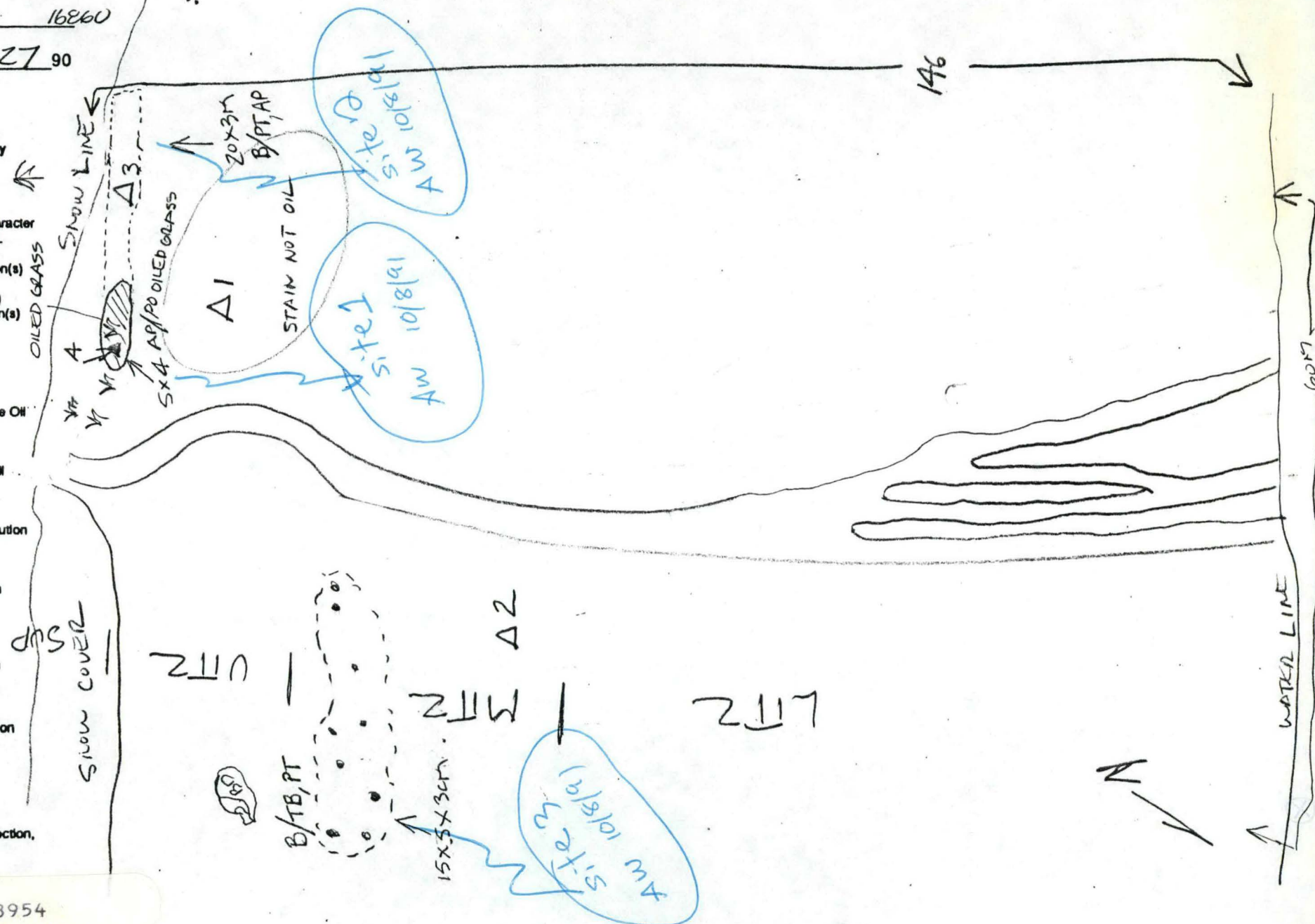
Splashed Distribution

eee
Oiled Vegetation

1 →

Photo location, direction, and number

SKETCH MAP



Oil Character Length (m): AP 10 PO 5 CV CT ST MS PT 17.5 TB 7.5 FL NO 20

REVISION: 03/24/90

34/53

Seg ID: KN-205 Subdiv: 226-30-16860
Survey Date: 4/27/90
Comments by: Ken Critchlow

This site contained a small area of pooled oil and a more extensive band of very scattered tarballs in the STZ on the right side of the stream. On the left side of the stream in the MITZ was a large area containing small tarballs that were widely scattered in low density.

The intertidal biota on this extensive beach is extremely productive and abundant; ~~in~~ care should be exercised to minimize foot traffic across the beach. I recommend that the pooled oil and tarballs be removed by a two person crew using shovels.

RR Critchlow

29/51

OPERATIONS FIELD NOTES

See Back for Instructions

SEGMENT ID ST-KN-205-A
STREAM ID # 226-30-16860

ANNOTATED MAP INCLUDED Y/N

DATE 4/27/90
NAME SNOOK
TEAM # 14

SURFACE OIL	Treatment Recommendation									
	Quantities in Meters			None	Bioremediation		Tilling		Spot Hot Water	
	Length	Width	Area		Y/N	% Treat	Y/N	% Treat	Y/N	% Treat
Wide Band										
Medium Band	5	4	20	✓	N		N		N	
Narrow Band	20	3	60	✓	N		N		N	
Very Light	15	0.5	7.5	✓	N		N		N	
TOTAL MANDAYS										

SUBSURFACE OIL

Other (Describe)?	<u>No SUBSURFACE OILING</u>

TARMATS	Quantities in Meters			Treatment Rec			# of Bags	Mandays Required	
	Length	Width	Thick(cm)	None	Breakup	Remove		Breakup	Remove
Area #1	5	4	1			✓	2		SEE BELOW
Area #2									
Area #3									
Area #4									
Sporadic Mats	20	3	1			✓	4		SEE BELOW

MANUAL PICKUP	Type of Debris			In Meters		# of Bags	Pickup Y/N	Manday Estimate
	Mousse Tarballs	Oiled Veget	Cleanup Debris	Length	Width			
"Pocket" #1								
"Pocket" #2								
"Pocket" #3								
Random/Continuous	✓			15	0.5	1	Y	SEE BELOW

OILED LOGS	Y/N	OILING	H/M/L	QUANTITY	L/M/S	BURN	Y/N
------------	-----	--------	-------	----------	-------	------	-----

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

GENERAL

Wave Exposure H/M/L Access Limitations: LONG LOW ANGLE BEACH

Snare Boom/Pom Poms Recommended? No

Would the production Craft have to be relocated to complete work on this subdivision? Y/N (N), # of Times 2

COMMENTS:

RECOMMEND MANUAL REMOVAL OF TARMATS & SPORADIC PATTIES.

EST. TOTAL MANDAYS = 2

37/53

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / KN-205 SUBDIVISION: ^{ASC#} 226-30-16860 DATE 27 APR 90

USCG

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

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

~~ADEC~~ → ADFSG

NAME Aimee Weseman SIGNATURE Aimee Weseman

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

Manually remove soft asphalt pavement (4m x 1m x 6cm) and intermittent tar patties (50m x 2m) along the UITZ on the west side of the stream

Remove scattered tar patties in a thin (50m x .5m) along the MITZ on the east side of the stream

Check for oiled debris along the SITZ and remove any encountered
It's now snow covered.

~~LAND MANAGER~~ → NONE

NAME _____ SIGNATURE _____

☐ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

ACE 7378947

ANAD

SSAT DATA ENTRY FORM

PAGE 1 OF 2

31/53

GENERAL DATA

SEG ID: KN-205 SUBDIV: 226-30 TEAM: 14 SURVEY DATE: 4/27/90
PAVEMENT: CHAR S AREA 20 THICKNESS 6 TARBALLS X
OILED: LGS - VEG X TRH - DBR - WAVE EXP: LW X MD - HG -
FAX RCVD: - DT: - AGENCY DISAGREE: -
EST SUBDIV LGTH: 60 OIL CATEGORY: W - M - N - VL 15 NO 20 U -

SURFACE DATA

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

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

CHAR #: 2 OIL CHAR: PO OIL DIST: CONT X BRKN - PTCH - SPLH -
OIL CLR: SBL FILM CLR: BR TIDAL ZONE: SU - UI X MI - LI -

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

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

32/53

ANAD
SSAT DATA ENTRY FORM

SUBSURFACE DATA

PAGE 2 OF 2

SEGMENT ID: KN-205 SUBDIV: 226-30
16860

PIT # 1 PIT DEPTH 22 OIL CHARACTER NO OIL INTVAL: FROM — TO —
QUANT: — OIL CLR: — FLM CLR: — ZONE: SU — UI X MI — LI —
SUBSURF SEDIMENT: BRK — BLD — COB X PEB X GRN X SAN X MUD — VEG —

PIT # 2 PIT DEPTH 20 OIL CHARACTER NO OIL INTVAL: FROM — TO —
QUANT: — OIL CLR: — FLM CLR: — ZONE: SU — UI — MI X LI —
SUBSURF SEDIMENT: BRK — BLD — COB — PEB X GRN X SAN X MUD — VEG —

PIT # 3 PIT DEPTH 16 OIL CHARACTER NO OIL INTVAL: FROM — TO —
QUANT: — OIL CLR: — FLM CLR: — ZONE: SU X UI — MI — LI —
SUBSURF SEDIMENT: BRK — BLD X COB X PEB X GRN X SAN X MUD — VEG —

PIT # 4 PIT DEPTH 14 OIL CHARACTER OP OIL INTVAL: FROM 5 TO 6
QUANT: 11C OIL CLR: SBL FLM CLR: BR ZONE: SU — UI X MI — LI —
SUBSURF SEDIMENT: BRK — BLD — COB X PEB X GRN X SAN X 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 —

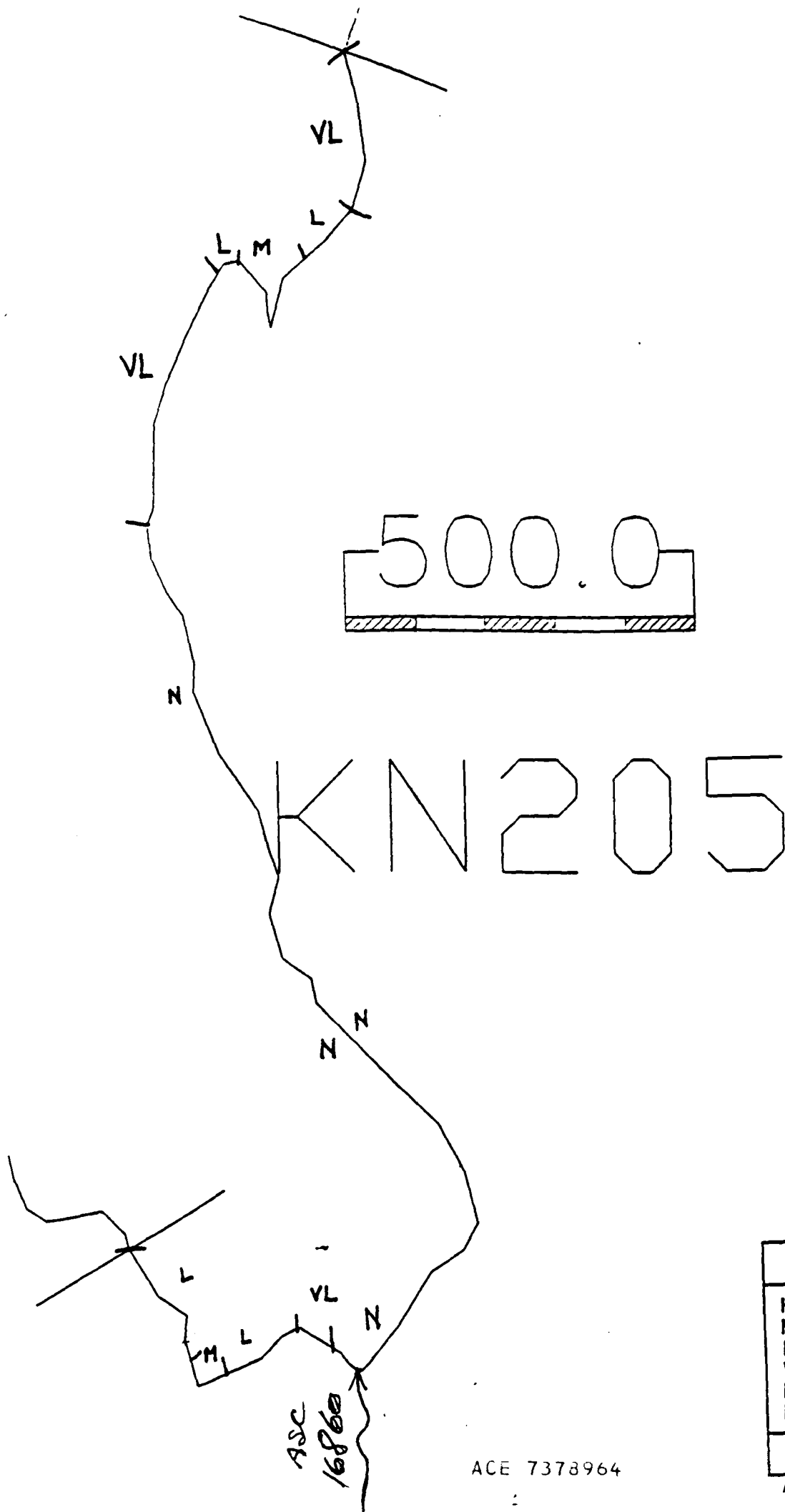
PIT # — PIT DEPTH — OIL CHARACTER — OIL INTVAL: FROM — TO —
QUANT: — OIL CLR: — FLM CLR: — ZONE: SU — UI — MI — LI —
SUBSURF SEDIMENT: BRK — BLD — COB — PEB — GRN — SAN — MUD — VEG —

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 7378951 -/S



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

ACE 7378964

ADEC Sep/Oct 1989 Survey

PWS, SEWARD AND HOMER ECOLOGICAL CONSTRAINTS

- 1A Salmon stream mouth - fry outmigration (3, 5/15)
 1B Salmon stream mouth - spawning (7/10 to 8/31)
 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 without authorization from ADF&G. No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, prior to at least July 1 unless authorized by ADF&G. Treatment which is not intrusive and which will not affect nearshore oil or toxicity levels, such as manual removal, can probably proceed without adherence to time constraints. In any case, contact ADF&G Habitat Division prior to treatment for consultation and/or permit application.
 AGENCY CONTACT PERSON: ADF&G John Morison 267-2324
- 1C Salmon fry nursery area (4/31 to 7/31)
 No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, prior to July 31 unless authorized by ADF&G. Treatment which will not affect nearshore oil or toxicity levels, such as manual or mechanical removal, can probably proceed without adherence to time constraints. Contact ADF&G prior to treatment for confirmation and advice.
 AGENCY CONTACT PERSON: ADF&G Larry Peltz 424-3214
- 1D Esther Hatchery release (4/15 to 6/15)
 1E Main Bay Hatchery release (4/20 to 6/15)
 1F Sawmill Bay Hatchery release (4/15 to 6/1)
 1G Cannery Creek Hatchery release (4/21 to 6/1)
 1H Remote release site
 No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, prior to at least July 1 unless authorized by ADF&G and/or PWS Aquaculture Association. Treatment which will not affect nearshore oil or toxicity levels, such as manual or mechanical removal, can probably proceed without adherence to time constraints. Contact ADF&G or PWS Aquaculture Association for confirmation and authorization.
 AGENCY CONTACT PERSON: 1E ADF&G Larry Peltz 424-3214
 1D 1F 1G PWS Aquaculture Association John McMillan or Bruce Suzumoto 424-7511
- 1I Gill net area (6/7 to 8/31)
 1J Purse seine area (7/20 to 9/30)
 1K Purse seine hook-off (7/20 to 9/30)
 1L Set net sites (6/11 to 7/25)
 Contact ADF&G for specific dates, locations and constraints. Restrict boat and air traffic to essential minimum. When set net sites are present (1L) restrict beach operations to essential minimum as authorized by ADF&G. If plans for treatment include methods such as hot water wash or Inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization.
 AGENCY CONTACT PERSON: ADF&G James Brady 424-3212
- 2M Herring spawning (4/1 to 6/15)
 Contact ADF&G for confirmation - dates and locations may vary. Restrict boat traffic to essential minimum. Avoid damage to unopened intertidal and subtidal algae and seagrass. If plans for treatment include methods such as hot water wash or Inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization.
 AGENCY CONTACT PERSON: ADF&G Evelyn Biggs 424-3235
- 3N, 3P Harbor seal and sea lion pupping (5/15 to 7/1)
 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. No application of Inipol within two weeks of arrival dates (work window at these sites is limited to 7/2 to 7/31). Contact ADF&G and USFWS prior to treatment for confirmation.
 AGENCY CONTACT PERSON: US National Marine Fisheries Service Steve Zimmerman 586-7235
 ADF&G Don Calkins 267-2403
- 5R Seabird colony (5/1 to 9/1)
 Restrict air and boat traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance from colony. Contact USFWS prior to treatment.
 AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
- 5S Shorebird/waterfowl concentration (4/1 to 5/15)
 Restrict all activity to essential minimum, especially air traffic. Contact USFWS and ADF&G for confirmation.
 AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
 ADF&G Tom Roth 267-2206
- 5T All Bald Eagle nests (3/1 to 6/1)
 Active Bald Eagle nests (3/1 to 9/1)
 Restrict air traffic and all disturbance 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.
 AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
- 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 Subistence area: Salmon harvesting (5/1 to 9/30)
 7HH Finfish harvesting
 7I Deer harvesting (8/15 to 2/28)
 7JJ Invertebrate harvesting
 Contact ADF&G and appropriate Native Corporation for specific dates, locations, and constraints. Restrict boat and air traffic and beach disturbance to essential minimum. If plans for treatment include methods such as hot water wash or application of Inipol which might affect intertidal or nearshore oil or toxicity levels, contact ADF&G and appropriate Native Corporation for authorization - see Native Corporation Contact List for each Native Corporation's contact person.
 AGENCY CONTACT PERSON: ADF&G Jim Fall 267-2350

RECEIVED
MAY 07 1990

DEPT. OF
ENVIRONMENTAL CONSERVATION

ANADROMOUS FISH STREAM ASSESSMENT

REGION: PRINCE WILLIAM SOUND

SEGMENT: KN-205 *B*

STREAM NO: 226-30-16860

Concur

OK

ACE 7378917

ECOLOGICAL
MAP

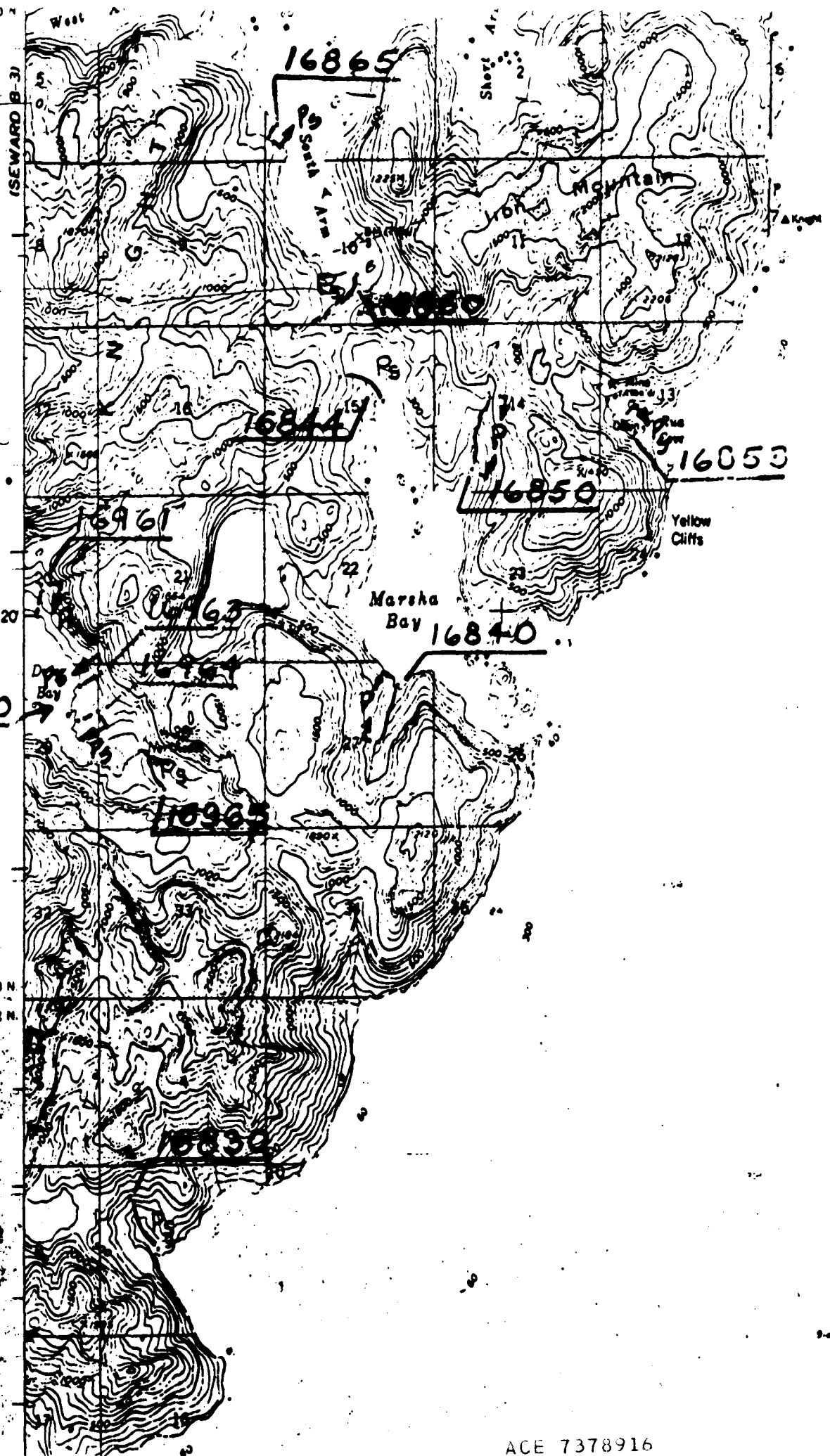
KN-205

TO 10300
INSTRUCTIONS
- DEATH
LOCATED WITHIN
KN-205-B
(2 of 2)

226-20

ANC-H/C-03

SEND 8-2



ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/ KN-205 STREAM NO: 226-30-16860 DATE 4/27/90

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)
- 2M Herring spawning (4/1 to 6/15)

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to unoiled biota and substrate. Subject stream is located within KN-205-B (2 of 2). Care should be taken to minimize foot traffic across productive beach.

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: *[Signature]* DATE: 5/10/90

Subsurface Oil Observed: Yes X No Maximum Depth 6 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> </u> Bioremediation | <u> </u> Spot Washing: <u> </u> Wands |
| <u>X</u> Tarmat Removal | <u> </u> Beach Cleaner |
| | <u> </u> Other (see comments) |

COMMENTS: Recommended treatment includes 1) manual pickup of oiled grass and tar patties in area indicated on sketch map, and 2) manual removal of tarmats in areas indicated on sketch map. Work should be conducted between 6/15 and 7/10 due to salmon stream and herring spawning constraints. Check supratidal zone during cleanup for any oiled debris.

TAG COMMENTS: Monitors to Assess SUTZ.

TAG APPROVAL DATE: 5/10/90.

ADEC Art Weimer
EXXON Andy Teal
NOAA Burt Wescott
USCG D.D. Rome

FOSC: *[Signature]* DATE: 5-15-90

CAC Rep to be on site.



ANADSCAT-90

38/53

ALASKA DEPT. OF
FISH & GAME

APR 30 1990

ADF&G MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: ES SS DS TS AVS SCMA MMS PTA

2 REGION: REGION II
HABITAT DIVISION

K, AP

METHOD: Aerial Ground Boat

3 DATE: 4-27-90

15 HIGH TIDE TIMES: 1

21 TEAM RECORDER: Aimee Weseman

4 START TIME: 0905

16 HIGH TIDE HTS: 1

22 OBSERVERS: Rick Gustin

5 STOP TIME: 1005

17 LOW TIDE TIMES: 1

23 AGENCY: ADF&G

6 SEGMENT #: KN-205

18 LOW TIDE HTS: 1

24 PHOTOS TAKEN: Y N

7 STATION #:

19 TIDE HT AT SURVEY:

Roll #: Frame:

8 K-UNIT:

Ebb Slack Flood Slack

25 VIDEO TAKEN: Y N TAPE#:

9 STAT AREA:

20 USCG QUAD: S B 2

Start: 984 End: 1057

10 LAT:

11 LONG:

26 SAMPLES TAKEN? Y N Number12 SOURCE: Map Loran

Oil

13 LOCATION: Knight I - South Arm, Bay of Isles

Sediment

14 DESCRIPTION:

Biological

Water

EXTENT OF OIL

	SHORELINE				STREAM			
	L	W	M ²	%	L	W	M ²	%
27 SURFACE COVERAGE								

36 CATALOGED ANAD. FISH SREAM? Y N

28 SURFACE THICKNESS	4cm	6cm						
----------------------	-----	-----	--	--	--	--	--	--

37 CATALOG #: 226-30-16860

29 PENETRATION								
----------------	--	--	--	--	--	--	--	--

38 STREAM NAME:

30 OVERALL OIL IMPACT: N VL L M H39 OIL IN STREAM BED? Y N31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain40 OIL ON STREAM BANKS? Y N32 OILED DEBRIS? Y N snow covering SETZ41 OIL ON BEACH ADJACENT TO MOUTH? Y N
(within 50 meters)42 OIL WITHIN 1 MILE OF STREAM? Y N33 SHORELINE TYPE: Headland Low-lying Rocks Beach Cove
Lagoon Marsh

Where:

43 ANADROMOUS FISH PRESENT? Y N34 WAVE EXPOSURE: High Moderate Low44 ANADROMOUS FISH OBSERVATION
Species Aerial Ground35 SUBSTRATE TYPE: Bedrock Rock Boulder 10 Cobble 40
Gravel 40 Sand 10 Mud/silt

COMMENTS: a large, flat rock/cobble beach. Oil noted includes a narrow band of scattered tar balls & patties on the east side of stream along the MITZ and an intermittent tar band, 50m x 2m x 4cm deep along the MITZ on the west side of the stream. Included in this band on it's near stream edge is an area of continuous soft asphalt pavement - approx 4m x 1m x 6cm deep

ACE 7378952 +/S

snow is covering the SITZ on the east side of stream -
could not check for oiling

45 PHOTOLOG

39/53
KN 1805

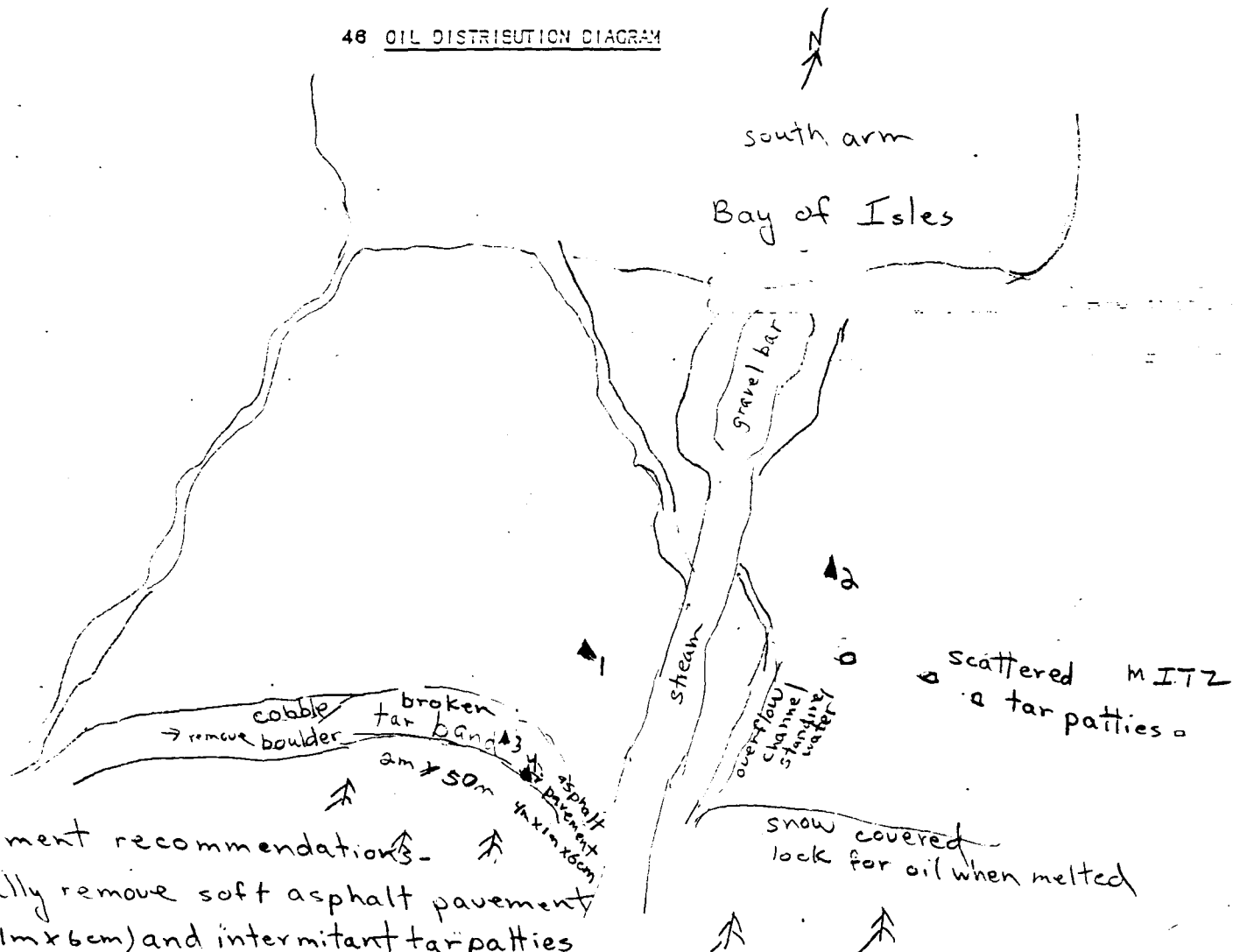
226-30-1686

F (S)

DESCRIPTION

Pit 1 - 20cm - no visible oil
Pit 2 - 20cm - no visible oil
Pit 3 - 16cm - 4cm oil
Pit 4 - 12cm - 6cm oil

46 OIL DISTRIBUTION DIAGRAM



Treatment recommendations -
Manually remove soft asphalt pavement
(4m x 1m x 6cm) and intermittent tar patties
(50m x 2m) along the MITZ on the west
side of the stream

Remove scattered tar patties in thin line
0.5m along the MITZ on the east side of
stream

check for oiled debris along the SITZ and remove
any encountered (now snow-covered)

Sample taken

Photo frame # and
shot direction.

ACE 7378953

NUMBER:	SEGMENT NUMBER:	YR CATALOGED:
LOCATION:		
STREAM NAME:		LATITUDE:
KODIAK K-UNIT:	LOCAL STREAM #:	LONGITUDE:
USGS QUADRANGLE:		LEGAL:
SHORELINE TYPE:	ALL SEGMENTS:	
WAVE EXPOSURE:		

ASC NUMBER: 226-30-16860

SURVEY TYPE:

METHOD:

DATE: 4/27/90

START TIME:

STOP TIME:

TEAM RECORDER:

OBSERVERS:

AGENCY(IES):

PHOTOS TAKEN?

Roll #:

Frames:

VIDEO TAKEN?

Tape Number:

Counter Start:

SAMPLES TAKEN?

SAMPLE I.D. NUMBERS: 1.

2.

3.

4.

5.

6.

	LENGTH m	WIDTH m	M2	%	THICK cm	PEN cm	OIL TYPE
SITE 1	58 m	.5					T.B
SITE 2	50	2			.04		AP
SITE 3	4	1			.06		AP
SITE 4							
SITE 5							

OVERALL OIL IMPACT:

OIL IN STREAM CHANNEL?

OIL ON BEACH WITHIN 50M OF STREAM MOUTH?

SUBSTRATE

Bedrock	Granule
Boulder	Sand
Cobble	Silt
Pebble	Veget.

SPECIES

COUNT

COMMENTS: Oil on stream banks.

Snow is covering the SITE on the east side of stream -
could not check for oiling

Treatment Recommendations

Manually remove soft asphalt pavement (4m x 1m x 6cm) and
intermittent tarpaulins (50m x 2m) along the SITE on the
west side of the stream.

Remove scattered tarpaulins in thin line 50m x .5m
along the SITE on the east side of stream. Check for oiled
debris along the SITE & remove any encountered (now snow covered.)

CATALOG NUMBER: 2263016860				SEGMENT NUMBER: KN205 B					
STREAM NAME:				SHORELINE TYPE:					
LOCATION: KNIGHT ISLAND, BAY OF ISLES, SOUTH ARM				DATE: 04/12/90 TIME: BEACH-0759					
SITE	WIDTH (m)	LENGTH (m)	AREA (sqm)	PERCENT OIL	THICKNESS (cm)	PENETRATION (cm)	SURFACE SUBSURF	OIL TYPES	COMMENTS
1				11-50			SURFACE	AP MS	mostly in supra on west side - scattered
COMMENTS: PATCHY AREAS OF MOUSSE & ASPHALT. MOSTLY S & E OF STREAM. (SHOVEL REMOVAL) OIL ON STREAM BANKS: YES OIL WITHIN 1 MILE OF STREAM: YES, UPPER INTERTIDAL									

CATALOG NUMBER: 2263016860				SEGMENT NUMBER: KN205 B					
STREAM NAME:				SHORELINE TYPE:					
LOCATION: KNIGHT ISLAND, BAY OF ISLES, SOUTH ARM				DATE: 04/27/90 TIME: BEACH-1005					
SITE	WIDTH (m)	LENGTH (m)	AREA (sqm)	PERCENT OIL	THICKNESS (cm)	PENETRATION (cm)	SURFACE SUBSURF	OIL TYPES	COMMENTS
#3	.05	50		11-50			SURFACE	TB PT/TB	- east side - martz - scattered Tar patties
2	2	50		51-90	4		SURFACE	AP	- supra-west side - Broken tar band
31	1	4		91-100	6		SURFACE	AP	- supra- Asphalt pavement - west side
COMMENTS: A LARGE, FLAT ROCK/COBBLE BEACH. OIL NOTED INCLUDES A NARROW BAND OF SCATTERED TARBALLS & PATTIES ON THE EAST SIDE OF STREAM ALONG THE MITZ AND AN INTERMITTENT TAR BAND, 50M X 2M X 4CM DEEP, ALONG THE UITZ ON THE WEST SIDE OF THE STREAM. INCLUDED IN THIS BAND ON ITS NEAR STREAM EDGE IS AN AREA OF CONTINUOUS SOFT ASPHALT PAVEMENT - APPROX 4 X 1M X 6CM DEEP. SNOW IS COVERING THE SITZ ON THE EAST SIDE OF STREAM, COULD NOT CHECK FOR OILING. RECOMMENDATIONS: MANUALLY REMOVE SOFT ASPHALT PAVEMENT (4M X 1M X 6CM) AND INTERMITTENT TAR PATTIES (50M X 2M) ALONG THE UITZ ON THE WEST SIDE OF THE STREAM. REMOVE SCATTERED TAR PATTIES IN THIN LINE (50M X .5M) ALONG THE MITZ ON THE EAST SIDE OF STREAM. CHECK FOR OILED DEBRIS ALONG THE SITZ AND REMOVE ANY ENCOUNTERED (NO SNOW COVERED). OIL ON STREAM BANKS: YES OIL WITHIN 1 MILE OF STREAM: YES									

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: 4.12.90

15 HIGH TIDE TIMES: 1

21 TEAM RECORDER: R. Gustin

4 START TIME: 0752

16 HIGH TIDE HTS: 1

22 OBSERVERS: 1 pilot

5 STOP TIME: 0759

17 LOW TIDE TIMES: 1

23 AGENCY: ADFG HAB

6 SEGMENT #: KN205

18 LOW TIDE HTS: 1

24 PHOTOS TAKEN: Y (N)

7 STATION #: _____

19 TIDE HT AT SURVEY: _____

Roll #: _____ Frame: _____

8 K-UNIT: _____

Ebb Slack Flood Slack

25 VIDEO TAKEN: Y (N) TAPE#: _____

9 STAT AREA: _____

20 USCG QUAD: _____

Start: _____ End: _____

10 LAT: _____

11 LONG: _____

26 SAMPLES TAKEN? Y (N) Number

12 SOURCE: Map Loran

Oil _____

13 LOCATION: KNIGHT ISLAND

Sediment _____

14 DESCRIPTION: South Arm Bay Isles

Biological _____

Water _____

EXTENT OF OIL

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

30 OVERALL OIL IMPACT: N VL L M H

31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain

32 OILED DEBRIS? Y (N)

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

34 WAVE EXPOSURE: High Moderate Low

35 SUBSTRATE TYPE: Bedrock _____ Boulder _____ Cobble ✓
Gravel ✓ Sand _____ Mud/silt _____

36 CATALOGED ANAD. FISH SREAM? (Y) N

37 CATALOG #: 76860 LJW

38 STREAM NAME: _____

39 OIL IN STREAM BED? Y (N)

40 OIL ON STREAM BANKS? (Y) N

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

42 OIL WITHIN 1 MILE OF STREAM? (Y) N

Where: upper intertidal

43 ANADROMOUS FISH PRESENT? Y N

44 ANADROMOUS FISH OBSERVATION
Species Aerial Ground

COMMENTS: patchy areas of mousse + asphalt.

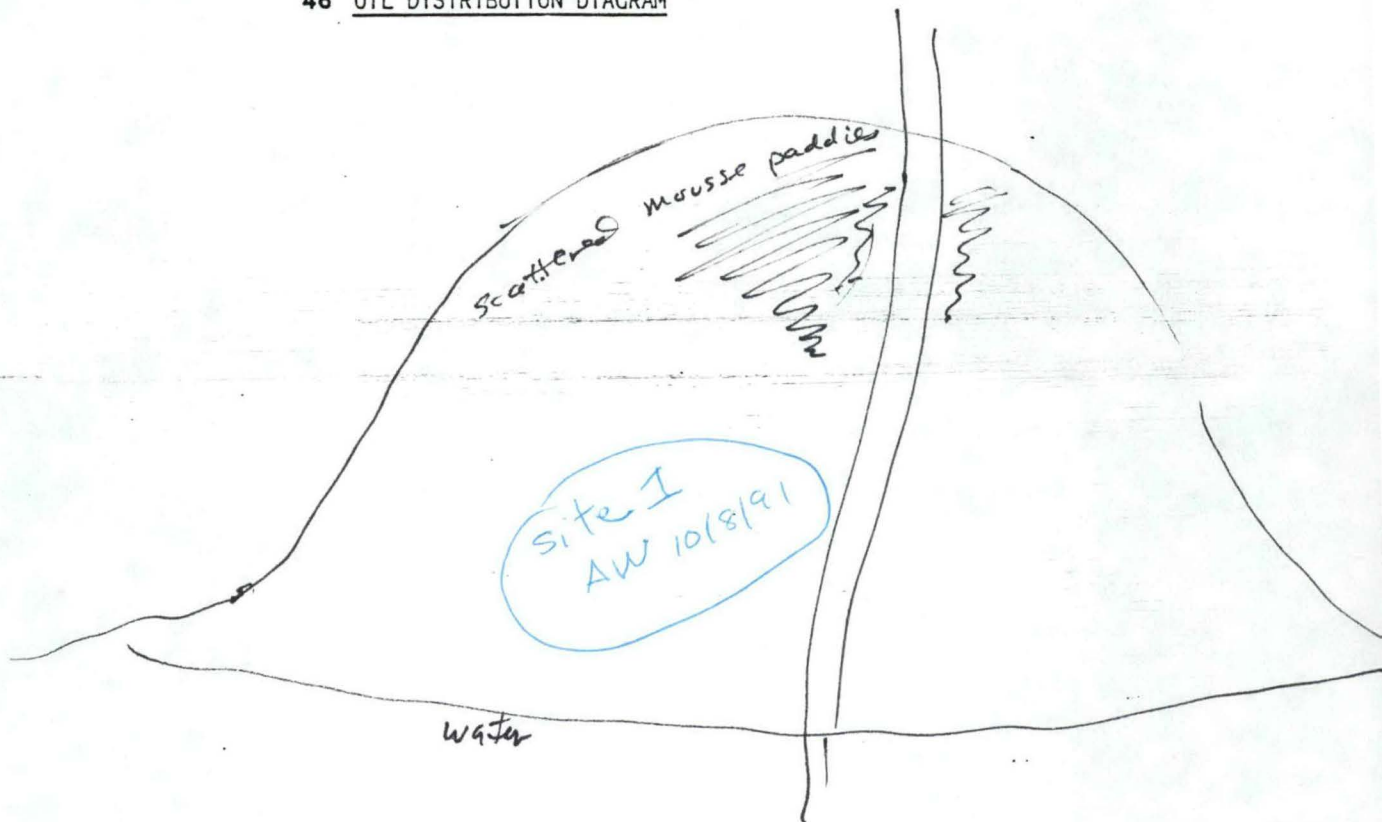
mostly S + E of stream.

(Shovel removal)

ACE 7378962 +/S

FRAME(S)

DESCRIPTION

48 OIL DISTRIBUTION DIAGRAM

4-12-90

KN205

226-30-16860 ATW

= Sample taken
= Photo frame # and
shot direction.

ACE 7378963 -15

Pre-ANADSCAT-90 ^{15W}

Duplicate

ADF&G MULTI-ASSESSMENT DATA FORM

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

2 REGION: PWS KP,C: K,AP

METHOD: Aerial Ground Boat

3 DATE: 4.12.90

15 HIGH TIDE TIMES: 1

21 TEAM RECORDER: R. Gustin

4 START TIME: 0752

16 HIGH TIDE HTS: 1

22 OBSERVERS: 1 pilot

5 STOP TIME: 0759

17 LOW TIDE TIMES: 1

23 AGENCY: ADFG HAB

6 SEGMENT #: KN205

18 LOW TIDE HTS: 1

24 PHOTOS TAKEN: Y (N)

7 STATION #:

19 TIDE HT AT SURVEY:

Roll #: Frame:

8 K-UNIT:

Ebb Slack Flood Slack

25 VIDEO TAKEN: Y (N) TAPE#:

9 STAT AREA:

20 USCG QUAD:

Start: End:

10 LAT:

11 LONG:

26 SAMPLES TAKEN? Y (N) Number

12 SOURCE: Map Loran

Oil

13 LOCATION: KNIGHT ISLAND

Sediment

14 DESCRIPTION: South Arm Bay Isles

Biological

Water

EXTENT OF OIL

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

30 OVERALL OIL IMPACT: N VL L M H

31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain

32 OILED DEBRIS? Y (N)

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

34 WAVE EXPOSURE: High Moderate Low

35 SUBSTRATE TYPE: Bedrock Boulder Cobble ✓
Gravel ✓ Sand Mud/silt

36 CATALOGED ANAD. FISH SREAM? (Y) N

37 CATALOG #: 206-3076860 ^{15W}

38 STREAM NAME:

39 OIL IN STREAM BED? Y (N)

40 OIL ON STREAM BANKS? (Y) N

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

42 OIL WITHIN 1 MILE OF STREAM? (Y) N

Where: Upper intertidal

43 ANADROMOUS FISH PRESENT? Y (N)

44 ANADROMOUS FISH OBSERVATION
Species Aerial Ground

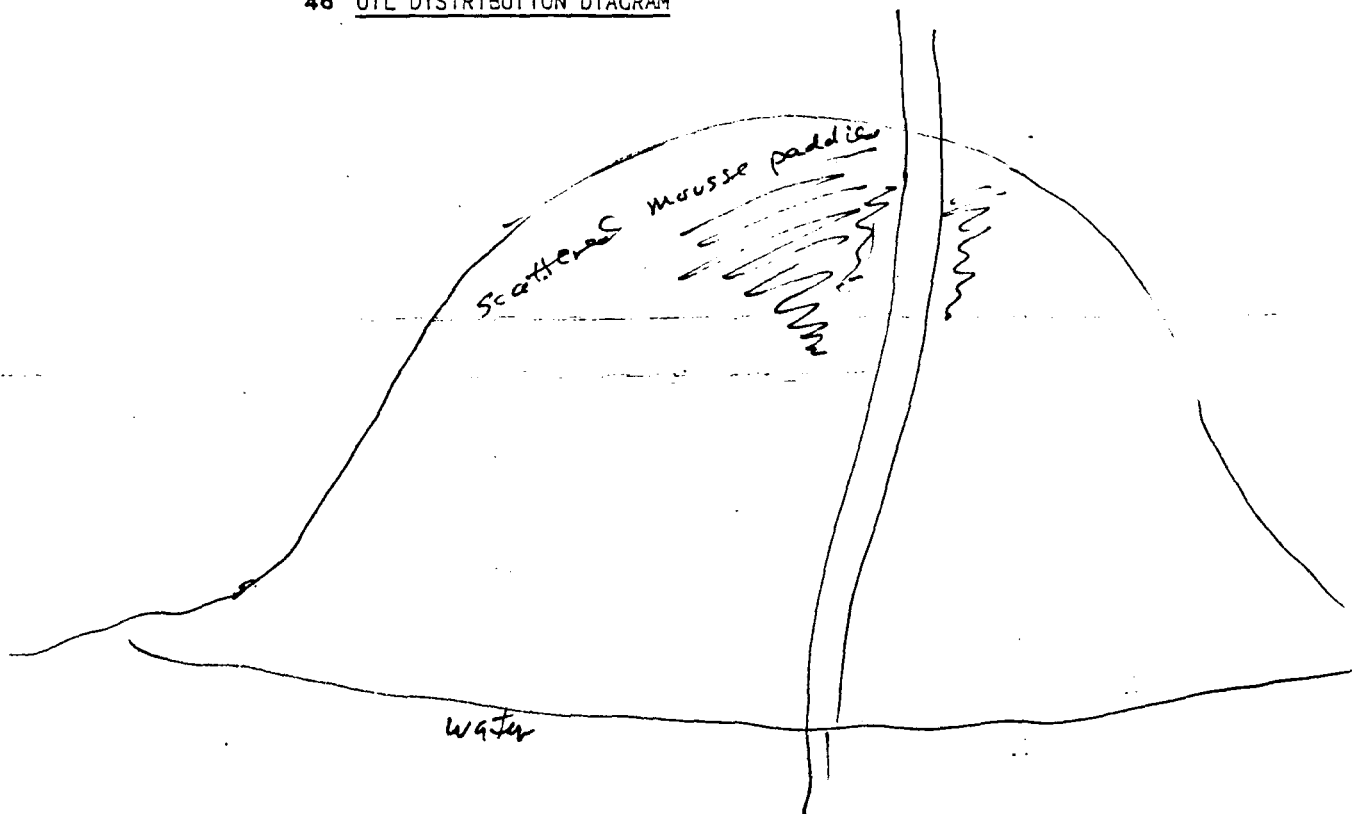
COMMENTS: patchy areas of mousse + asphalt.

mostly S + E of stream.

(Shovel removal)

ACE 7378962 +15

E(S)	DESCRIPTION

46 OIL DISTRIBUTION DIAGRAM

A-12-90

KN205
226-30-16860 AJW

NUMBER:	SEGMENT NUMBER:	YR CATALOGED:
LOCATION:		
STREAM NAME:		LATITUDE:
KODIAK K-UNIT:	LOCAL STREAM #:	LONGITUDE:
USGS QUADRANGLE:		LEGAL:
SHORELINE TYPE:	ALL SEGMENTS:	
WAVE EXPOSURE:		

ASC NUMBER: 226-30-16860
 SURVEY TYPE:
 METHOD:
 DATE: 4/12/90
 START TIME:
 STOP TIME:

TEAM RECORDER:
 OBSERVERS:
 AGENCY(IES):
 PHOTOS TAKEN?
 Roll #: Frames:
 VIDEO TAKEN? Tape Number:
 Counter Start:

SAMPLES TAKEN?

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

	LENGTH m	WIDTH m	M2	%	THICK cm	PEN cm	OIL TYPE
SITE 1							MS
SITE 2							AP
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT:

OIL IN STREAM CHANNEL?

SUBSTRATE

Bedrock	Granule
Boulder	Sand
Cobble	Silt
Pebble	Veget.

OIL ON BEACH WITHIN 50M OF STREAM MOUTH?

SPECIES					
COUNT					

COMMENTS: Oil on stream banks.

SHORELINE OILING SUMMARY (ANAD)

33/52
REVISION NO. 04/13/90

OG CAL LARSON JOG DREHER, CWE SEGMENT ST/ KN-205
 BIO KEN CRITCHLOW LAND REP STREAM 16800 (OF)
 EXXON AL SNOOK ADFG RICK GUSTIN-AIMEE WESEMAN TIME 09:05 to 09:40
 TEAM NO. 74 TIDE LEVEL -3 FT DATE 4/27/90
 EST. SUBDIVISION LENGTH: 60 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☐ Forest ☐ Rock
 SURVEYED FROM: ☐ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R % B % C 30 % P 30 % G 30 % S 10 % M % V %
 SLOPE: Lang 95 % Hang 5 % Vert % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W 5 m M 20 m N m VL 15 m NO 20 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR						IMPACTED ZONES			
	IC	IB	IP	IS	SBL BR	DBL RW	GY	SL DBR	TL	LR	SU	UI	ME	LI
ASPHALT PAVEMENT		✓				✓						✓		
POOLED	✓				✓							✓		
COVER														
COAT														
STAIN														
MOUSSE														
PATTIES		✓				✓						✓	✓	
TARBALLS		✓				✓							✓	
FILM														
NO OIL											✓			✓

PAVEMENT H F S5X4 sq. m by cmPATTIES / TARBALLS 10 BAGSNEAR SHORE SHEEN? NO BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation	✓		
Trash			
Debris			

Did you COLLECT
 DEBRIS
☐ YES ☒ NO

TYPE #BAGS

Photographs:

Roll No. 9Frames 19-27

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	SBL BR	DBL RW	GY SL	DBR TL	LR	SU	U	M	L								
1	22					✓	.								✓											CB, PB, GR, SD, CB, PB, GR, SD
2	20					✓	.										✓									PB, GR, SD/ PB, GR, SD
3	16					✓	.								✓											BD, CB, PB, GR, SD, B'D, CB, PB, GR, SD
4	14	✓					5-6	✓	✓						✓											CB, PB, GR, SD CB, PB, GR, SD
							.																			
							.																			

COMMENTS

REVIEWED DATE

ACE 7378959

Extra copies

SKETCH MAP

SEGMENT ST/KN205

STREAM 16860

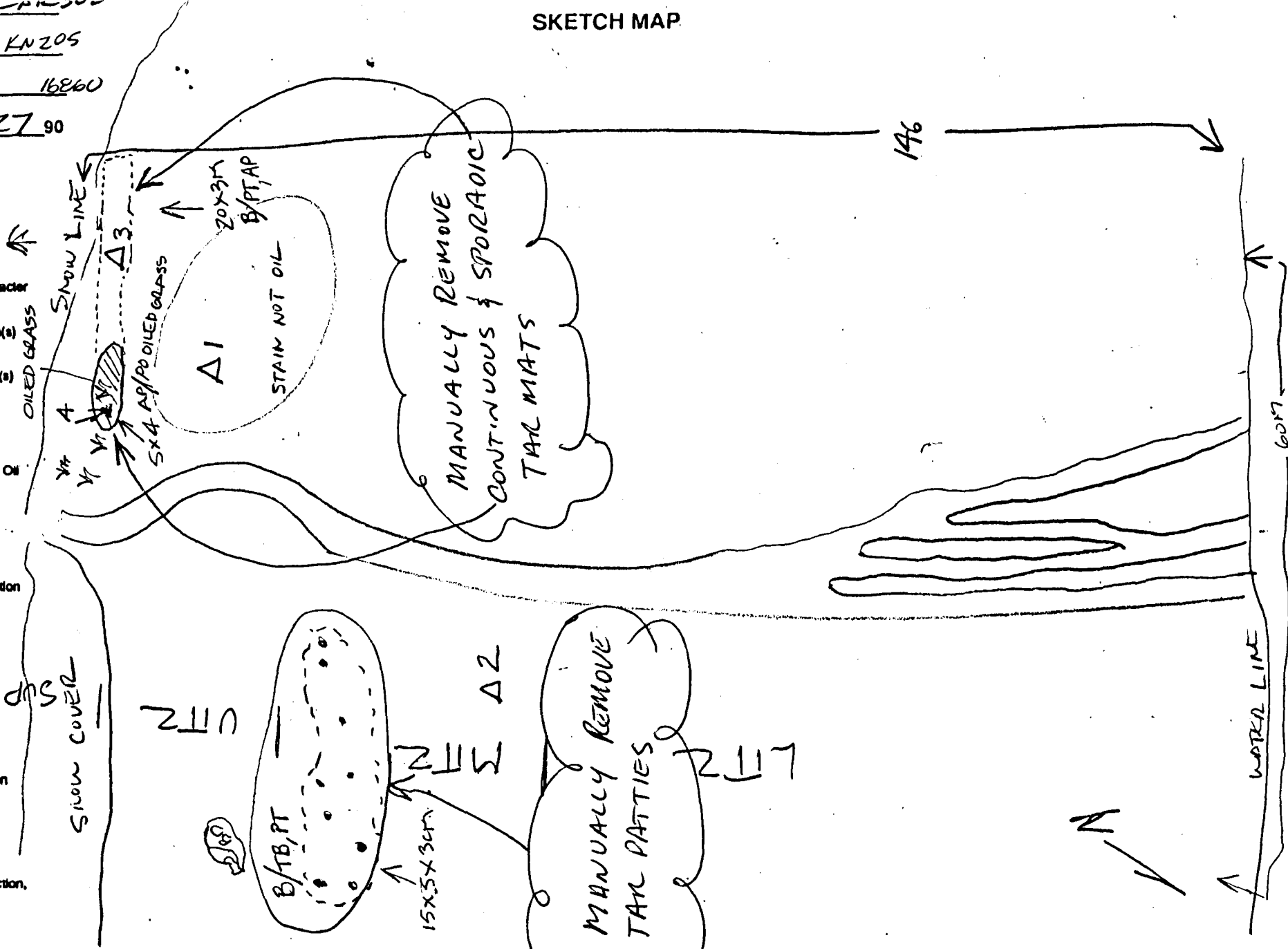
DATE 4 127 90

CHECKLIST

- ☐ N Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Bndry
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HWL/LWL
- ☐ SSL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ 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
- eee
Oiled Vegetation
- 1 $\bullet$
Photo location, direction, and number



Oil Character Length (m): AP 10 PO 5 CV CT ST MS PT 17.5 TB 7.5 FL NO 20

REVISION: 3/24/90

29/57

OPERATIONS FIELD NOTES

See Back for Instructions

SEGMENT ID ST-KN-205-A
STREAM ID # 226-30-16860
ANNOTATED MAP INCLUDED YIN

DATE 4/27/90
NAME SNOOK
TEAM # 14

SURFACE OIL	Quantities in Meters			Treatment Recommendation						
	Length	Width	Area	None	Bioremediation		Tilling		Spot Hot Water	
					Y/N	% Treat	Y/N	% Treat	Y/N	% Treat
Wide Band										
Medium Band	5	4	20	✓	N		N		N	
Narrow Band	20	3	60	✓	N		N		N	
Very Light	15	0.5	7.5	✓	N		N		N	
TOTAL MANDAYS										

SUBSURFACE OIL

Other (Describe)?	<u>No SUBSURFACE OILING</u>

TARMATS	Quantities in Meters			Treatment Rec			# of Bags	Mandays Required	
	Length	Width	Thick(cm)	None	Breakup	Remove		Breakup	Remove
Area #1	5	4	1			✓	2		SEE BELOW
Area #2									
Area #3									
Area #4									
Sporadic Mats	20	3	1			✓	4		SEE BELOW

MANUAL PICKUP	Type of Debris			In Meters		# of Bags	Pickup	Manday
	Mousse Tarballs	Oiled Veget	Cleanup Debris	Length	Width		Y/N	Estimate
"Pocket" #1								
"Pocket" #2								
"Pocket" #3								
Random/Continuous	✓			15	0.5	1	Y	SEE BELOW

OILED LOGS	Y/N	OILING	H/M/L	QUANTITY	L/M/S	BURN	Y/N
------------	-----	--------	-------	----------	-------	------	-----

Is there Other Debris on the Beach? YIN How Many Bags? — Is it mingled with the Oiled Debris YIN

GENERAL

Snow covering 90 % of the Supratidal Zone?

Wave Exposure H/M/L

Access Limitations: LONG LOW ANGLE BEACH

Snare Boom/Pom Poms Recommended? No

Would the production Craft have to be relocated to complete work on this subdivision? YIN, # of Times 2

COMMENTS:

RECOMMEND MANUAL REMOVAL OF TARMATS & SPORADIC PATTIES.

EST. TOTAL MANDAYS = 2

ANAD

SSAT DATA ENTRY FORM

PAGE 1 OF 2

31/53

GENERAL DATA

SEG ID: KN-205 SUBDIV: 226-30 TEAM: 14 SURVEY DATE: 4/27/90
PAVEMENT: CHAR S AREA 20 THICKNESS 6 TARBALLS X
OILED: LGS - VEG X TRH - DBR - WAVE EXP: LW X MD - HG -
FAX RCVD: - DT: - AGENCY DISAGREE: -
EST SUBDIV LGTH: 60 OIL CATEGORY: W - M - N - VL 15 NO 20 U -

SURFACE DATA

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

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

CHAR #: 2 OIL CHAR: PO OIL DIST: CONT X BRKN - PTCH - SPLH -
OIL CLR: SBL FILM CLR: BR TIDAL ZONE: SU - UI X MI - LI -

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

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

32/53

ANAD
SSAT DATA ENTRY FORM

SUBSURFACE DATA

PAGE 2 OF 2

SEGMENT ID: KN-205 SUBDIV: 226-30
16860

PIT # 1 PIT DEPTH 22 OIL CHARACTER NO OIL INTVAL: FROM — TO —
QUANT: — OIL CLR: — FLM CLR: — ZONE: SU — UI X MI — LI —
SUBSURF SEDIMENT: BRK — BLD — COB X PEB X GRN X SAN X MUD — VEG —

PIT # 2 PIT DEPTH 20 OIL CHARACTER NO OIL INTVAL: FROM — TO —
QUANT: — OIL CLR: — FLM CLR: — ZONE: SU — UI — MI X LI —
SUBSURF SEDIMENT: BRK — BLD — COB — PEB X GRN X SAN X MUD — VEG —

PIT # 3 PIT DEPTH 16 OIL CHARACTER NO OIL INTVAL: FROM — TO —
QUANT: — OIL CLR: — FLM CLR: — ZONE: SU X UI — MI — LI —
SUBSURF SEDIMENT: BRK — BLD X COB X PEB X GRN X SAN X MUD — VEG —

PIT # 4 PIT DEPTH 14 OIL CHARACTER OP OIL INTVAL: FROM 5 TO 6
QUANT: UC OIL CLR: SBL FLM CLR: BR ZONE: SU — UI X MI — LI —
SUBSURF SEDIMENT: BRK — BLD — COB X PEB X GRN X SAN X 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: —

STATION 1660

DATE 4 127 80

CHECKLIST

- ☐ M Area
- ☐ Approx. Size
- ☐ Day/Tab Study
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. INFLUENCE
- ☐ Soil
- ☐ Particle Size/Shape
- ☐ Depth
- ☐ Location

LEGEND

1 A
Pt. No. Substrate Oil

2 A
Pt. Substrate Oil

CT/C
Oil/Cover Distribution

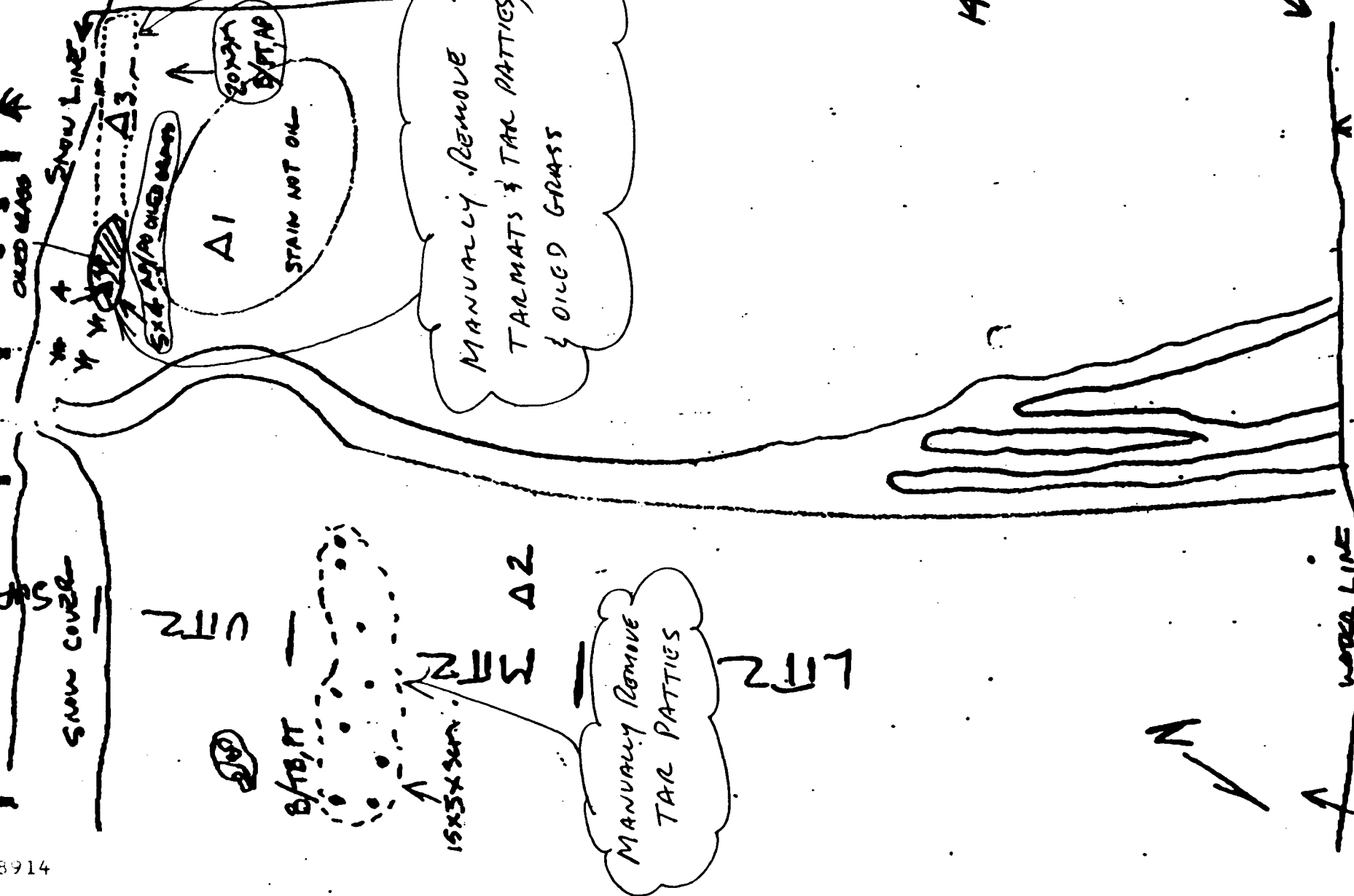
CT/B
Broken Distribution

1/2
Infection

1/2
Spotted Distribution

lll
Old Vegetation

o
From location, direction, and number



ACE 7378914

Oil Character Length (in): AP 10 PO 5 CV CT ST MB PT 17.5 TB 7.5 FL NO 20

REPRODUCTION

SHORELINE OILING SUMMARY (ANAD)

5/1/90

OG CAL LARSON USCG 22742, CWE SEGMENT ST/ KN 205
 BIO REN CLITCHMAN LAND REP STREAM 1000 OF
 EXXON AL SNOOK ADFS 22 K. BOSTON - ALPHE WISEMAN TIME 09 25 1009:40
 TEAM NO. 74 TIDE LEVEL -3 FT DATE 4/27/90
 EST. SUBDIVISION LENGTH: 60 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☐ Forest ☐ Rock
 SURVEYED FROM: ☐ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R 30 % B 30 % C 30 % P 30 % G 30 % S 10 % M 30 % V 30
 SLOPE: Long 95 % Hang 5 % Vert 5 % WAVE EXPOSURE: ☒ Low ☐ Med ☐ H
 OIL CATEGORY LENGTH: W 5 m M 20 m N 15 m VL 15 m NO 20

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR					IMPACTED ZONES			
	N	S	P	R	1	2	3	4	5	SW	M	U	
ASPHALT PAVEMENT		✓			✓					✓			
POOLED	✓				✓					✓			
COVER													
COAT													
STAIN													
MOUSSE													
PATTIES		✓			✓					✓	✓		
TARBALLS		✓			✓							✓	
FILM													
NO OIL										✓			✓

PAVEMENT H F 35X4 sq. m byPATTIES / TARBALLS 10NEAR SHORE SHEEN? NO BR RW SL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation	✓		
Trash			
Debris			

Did you Go
 DEBRIS
☐ YES ☒ NO

TYPE

#BAGS

Photographs:

Roll No. 9Frames 19-27

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL	BELOW		OIL / FILM COLOR					PIT ZONE				A N A	SHEEN (Y/N)	Y	SURF/ SUBSURF SEDIMENT
		OP	OR	OL	OF	NO		NO	NO	1	2	3	4	5	SW	M	U					
1	22					✓	•								✓							CS/PA CS/AS PA/CS PA/PA
2	20					✓	•									✓						PA/CS PA/PA PA/PA
3	16					✓	•								✓							PA/CS PA/PA PA/PA
4	14	✓					5-6	✓	✓						✓							CS/PA CS/AS PA/CS PA/PA
							•															
							•															

COMMENTS

REVIEWED JW DATE 4-29-90

ACE 7378921

5/53

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / KN-205 SUBDIVISION: 226-30-16860 ^{AS²} DATE 27 APR 9

USCG

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

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

~~ADCO~~ → ADFC

NAME Aimee Weseman SIGNATURE Aimee Weseman

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

Manually remove soft asphalt pavement (4m x 1m x 6cm) and intermittent tar patches (50m x 2m) along the MITZ on the west side of the stream

Remove scattered tar patches in a thin (50m x .5m) along the MITZ on the east side of the stream

Check for oiled debris along the SITZ and remove any encountered.
It's now snow covered.

~~LAND MANAGER~~ → NONE

NAME _____ SIGNATURE _____

☐ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

34/5

Seg ID: KN-205 Subdiv: 226-30-16860

Survey Date: 4/27/90

Comments by: Ken Critchlow

This site contained a small area of pooled oil and a more extensive band of very scattered tarballs in the STZ on the right side of the stream. On the left side of the stream in the MITZ was a large area containing small tarballs that were widely scattered in low density.

The intertidal biota on this extensive beach is extremely productive and abundant; care should be exercised to minimize foot traffic across the beach. I recommend that the pooled oil and tarballs be removed by a two person crew using shovels.

KR Critchlow

SKETCH MAP

30/10/93
SEGMENT ST/KN205

STREAM 16860

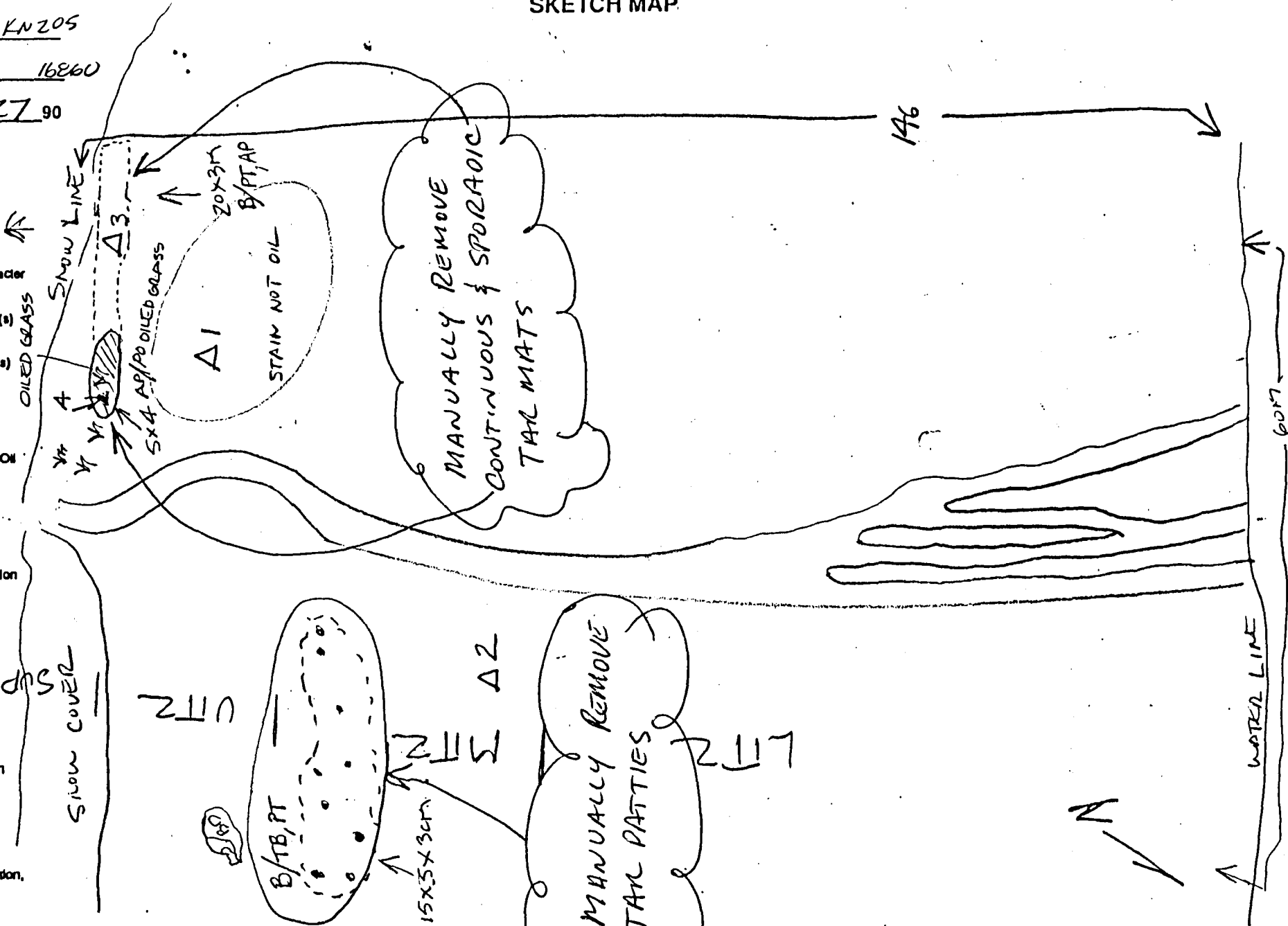
DATE 4 127 90

CHECKLIST

- ☐ N Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Bndry
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HWL/LWL
- ☐ SSL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ 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
- eee
Oiled Vegetation
- 1 $\rightarrow$
Photo location, direction, and number



ACE 7378945

Oil Character Length (m): AP 10 PO 5 CV CT ST MS PT 17.5 TB 7.5 FL NO 20

REVISION: 03/24/98

OG CAL LARSON

SEGMENT STI KN 205

STREAM 16860

DATE 4 127 90

SKETCH MAP

CHECKLIST

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

LEGEND

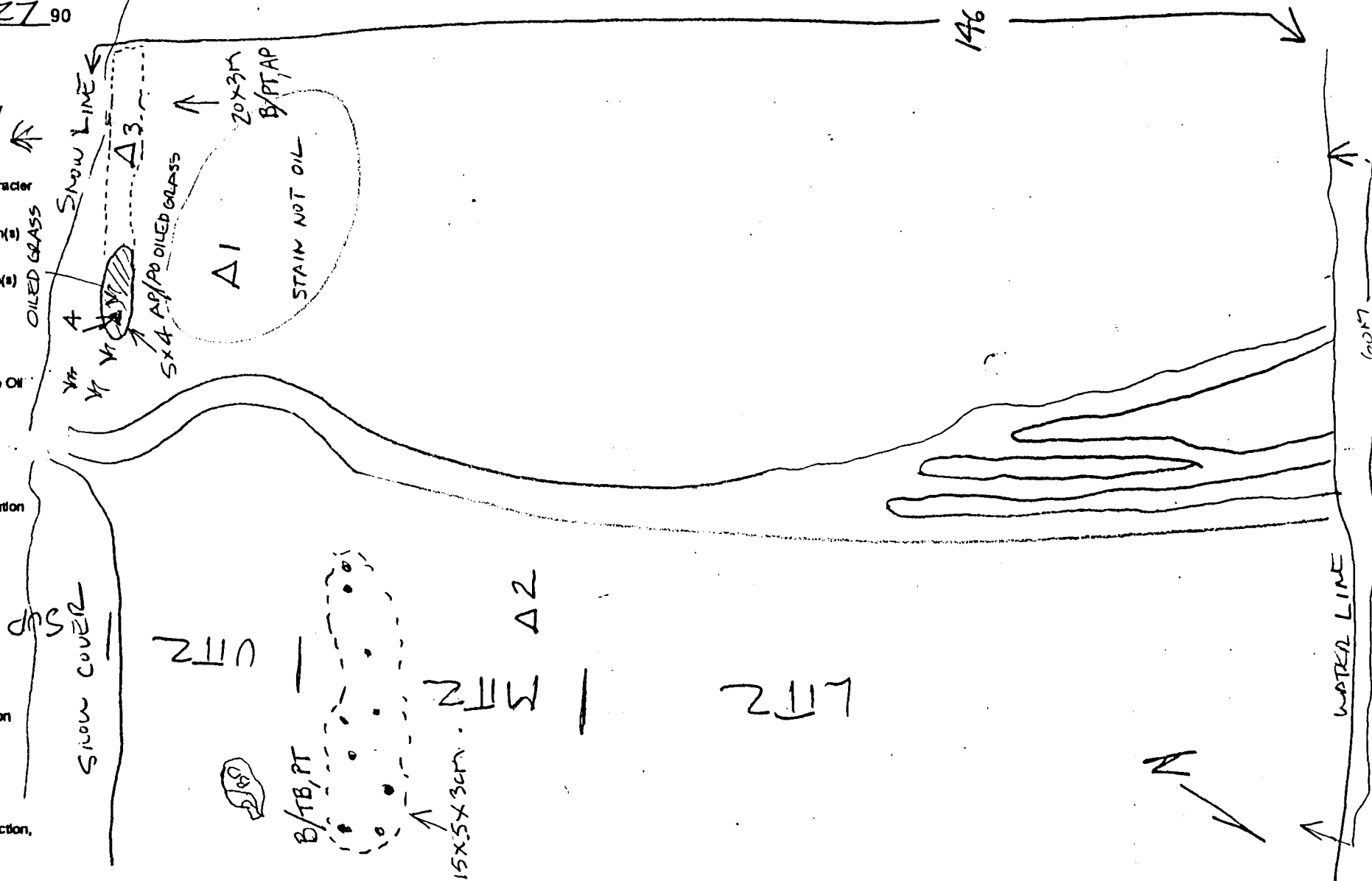
- 1 Δ
Pli - No Subsurface Oil
- 2 $\blacktriangle$
Pli - Subsurface Oil
- CT/C

Continuous Distribution
- CT/B

Broken Distribution
- CT/P

Patchy Distribution
- CT/S

Splashed Distribution
- eee
Oiled Vegetation
- 1 $\bullet$ $\rightarrow$
Photo location, direction, and number



ACE 7378944

Oil Character Length (m): AP 10 PO 5 CV CT ST MS PT 17.5 TB 7.5 FL NO 20

REVISION: 03/24/90

ALASKA DEPT. OF
FISH & GAME

ADF&G MULTI-ASSESSMENT DATA FORM

APR 30 1990

1 SURVEY TYPE: BS SS CS TS AVS SCYA MMS PTA

2 REGION: REGION II KP, CI
HABITAT DIVISION

METHOD: Aerial Ground Boat

3 DATE: 4-27-90

15 HIGH TIDE TIMES: 1

21 TEAM RECORDER: Aimee Weseman

4 START TIME: 0905

16 HIGH TIDE HTS: 1

22 OBSERVERS: Rick Gustin

5 STOP TIME: 1005

17 LOW TIDE TIMES: 1

23 AGENCY: ADF&G

6 SEGMENT #: KN-205

18 LOW TIDE HTS: 1

24 PHOTOS TAKEN: Y (N)

7 STATION #:

19 TIDE HT AT SURVEY:

Roll #: Frame:

8 K-UNIT:

Ebb Slack Flood Slack

25 VIDEO TAKEN: (Y) N TAPE#:

9 STAT AREA:

20 USCG QUAD: S B 2

Start: 984 End: 1057

10 LAT:

11 LONG:

26 SAMPLES TAKEN? Y (N) Number

12 SOURCE: Map Loran

Oil

13 LOCATION: Knight I - South Arm, Bay of Isles

Sediment

14 DESCRIPTION:

Biological

Water

EXTENT OF OIL

	SHORELINE				STREAM			
	L	W	M ²	%	L	W	M ²	%
27 SURFACE COVERAGE								

36 CATALOGED ANAD. FISH SREAM? (Y) N

	SHORELINE				STREAM			
	L	W	M ²	%	L	W	M ²	%
28 SURFACE THICKNESS	4cm	6cm						
29 PENETRATION								

37 CATALOG #: 226-30-16860

38 STREAM NAME:

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

39 OIL IN STREAM BED? Y (N)

31 OIL TYPE: Pooled Mousse (Tar) (Asphalt) (Sticky) Stain

40 OIL ON STREAM BANKS? (Y) N

32 OILED DEBRIS? Y ? N snow covering
SFTZ

41 OIL ON BEACH ADJACENT TO MOUTH? (Y) N
(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 (Low)

44 ANADROMOUS FISH OBSERVATION
Species Aerial Ground

35 SUBSTRATE TYPE: Bedrock Rock Boulder 10 Cobble 40
Gravel 40 Sand 10 Mud/silt

Species	Aerial	Ground

COMMENTS: a large, flat rock/cobble beach. Gil noted includes a narrow band of scattered tar balls & patties on the east side of stream along the MITZ and an intermittent tar band, 50m x 2m x 4cm deep along the MITZ on the west side of the stream. Included in this band on it's near stream edge is an area of continuous soft asphalt pavement - approx 4m x 1m x 6cm deep

ACE 7378942 H/S

show is coming the SITZ on the ea' side of stream -
could not check for oiling

45 PHOTOLOG

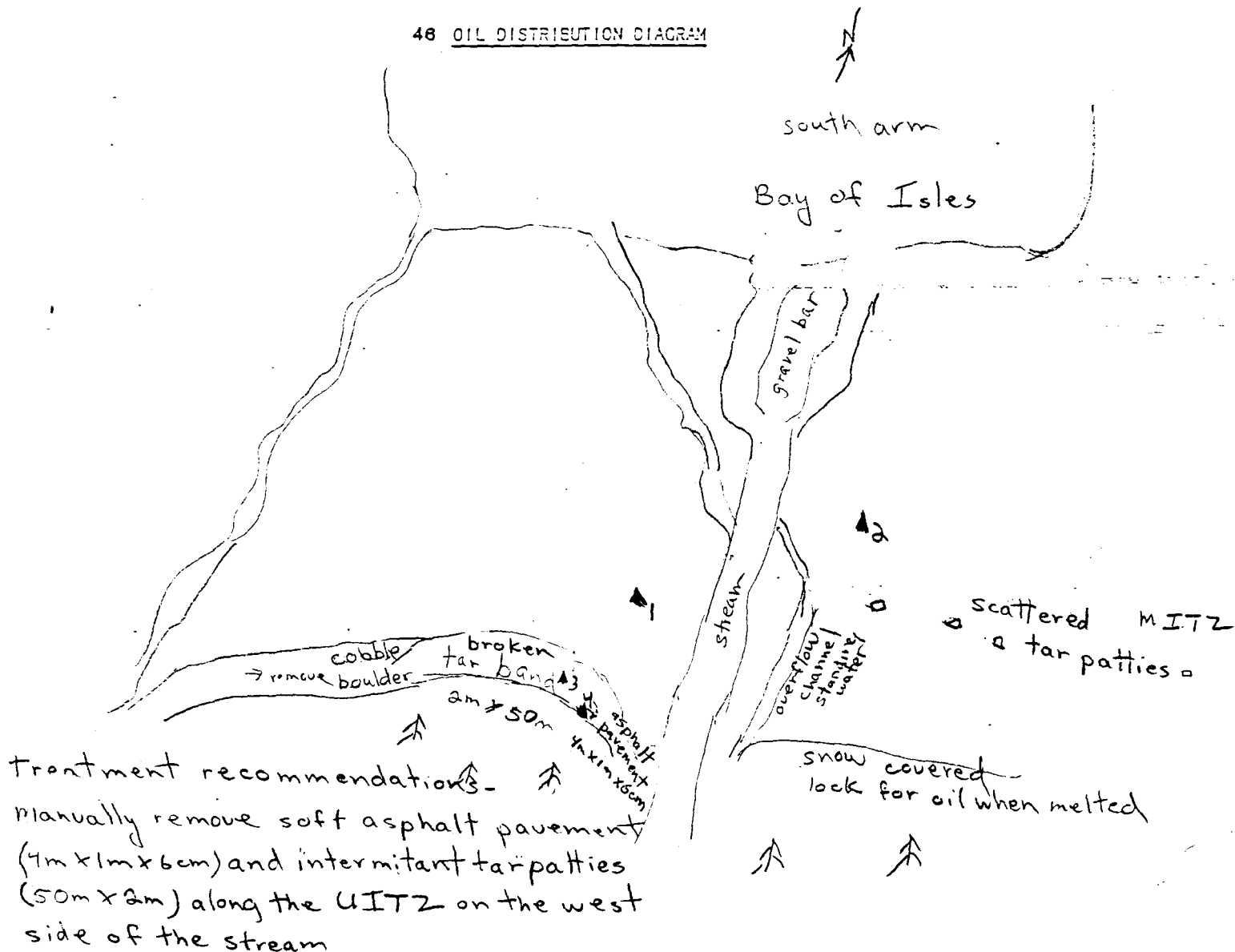
39/53
KN 1805

226-30-1686

FRAME(S) DESCRIPTION

pit 1 - 27cm - no visible oil
pit 2 - 20cm - no visible oil
pit 3 - 16cm - 4cm oil
pit 4 - 12cm - 6cm oil

48 OIL DISTRIBUTION DIAGRAM



treatment recommendations -
manually remove soft asphalt pavement
(4m x 1m x 6cm) and intermittent tar patties
(50m x 2m) along the MITZ on the west
side of the stream

Remove scattered tar patties in thin line
50m x .5m along the MITZ on the east side of
stream

check for oiled debris along the SITZ and remove
any encountered (now snow-covered)

ALC 7378943

sample taken
photo frame # and
photo direction.

ANONYMOUS FISH STREAM EVALUATION

SEGMENT ST/ KN-205 STREAM NO: 226-30-16860 DATE 4/27/90

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)
- 2M Herring spawning (4/1 to 6/15)

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to unoiled biota and substrate. Subject stream is located within KN-205-B (2 of 2). Care should be taken to minimize foot traffic across productive beach.

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: *J. David McManus* DATE: 5/10/90

Subsurface Oil Observed: Yes X No Maximum Depth 6 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> </u> Bioremediation	<u> </u> Spot Washing: <u> </u> Wands
<u>X</u> Tarmat Removal	<u> </u> Beach Cleaner
	<u> </u> Other (see comments)

COMMENTS: Recommended treatment includes 1) manual pickup of oiled grass and tar patties in area indicated on sketch map, and 2) manual removal of tarmats in areas indicated on sketch map. Work should be conducted between 6/15 and 7/10 due to salmon stream and herring spawning constraints. Check supratidal zone during cleanup for any oiled debris.

TAG COMMENTS: Monitors to Assess Suitz.

TAG APPROVAL DATE: 5/10/90.

ADEC Art Weimer Art Weimer

EXXON Andy Teal Andy Teal

NOAA Burl Wescott Burl Wescott

USCG D.D. Rome D.D. Rome

FOSC: *[Signature]* DATE: 5-15-90

CAC Rep to be on site.

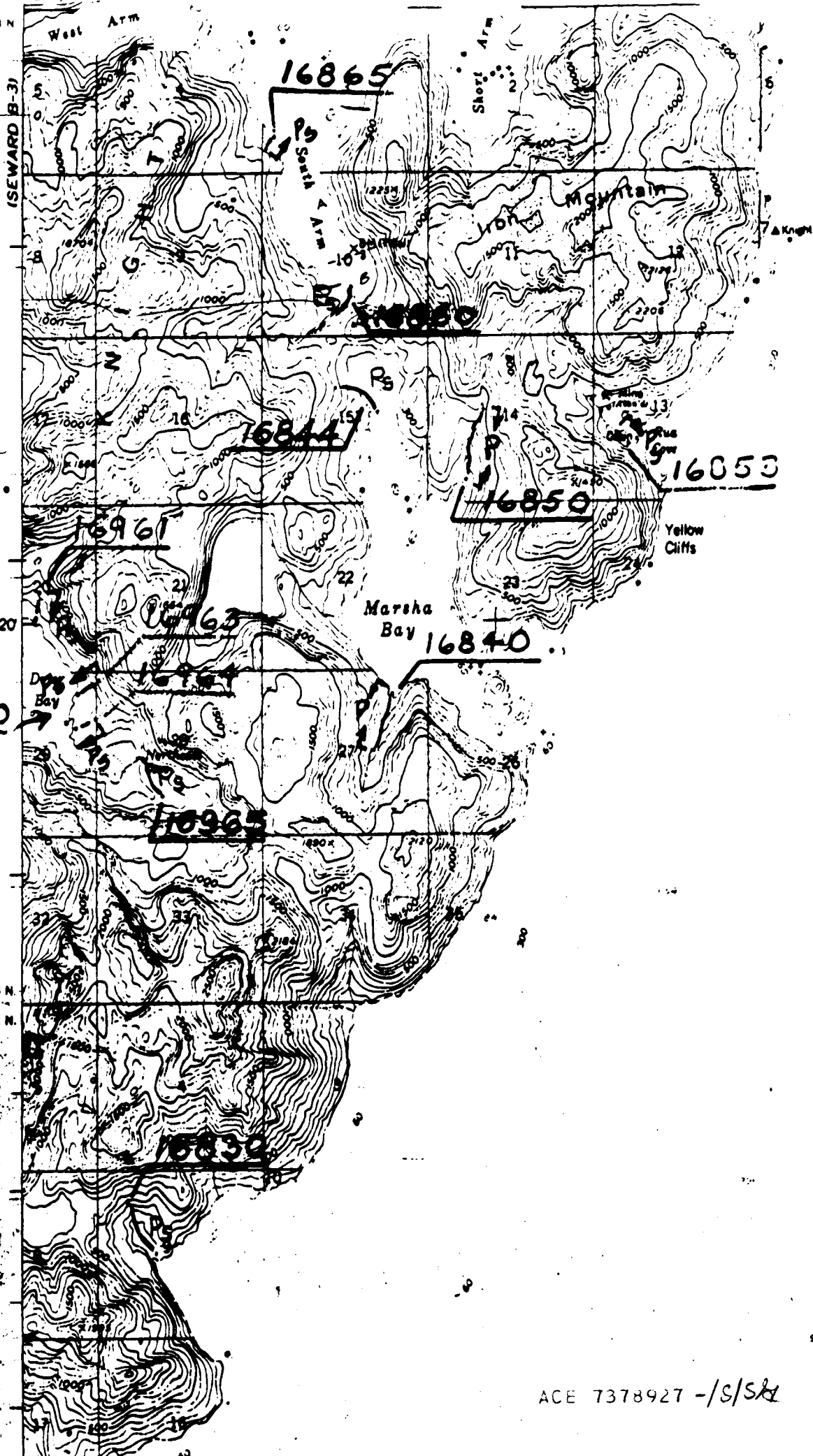
KN-205

1. APPROXIMATE
- DEATH
- LOCATED WITHIN
VN-205-B
(2 of 2)

226-20

ANC-H/C-03

10



ACE 7378927 -/S/S~~A~~

38/5

ADFG MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS SS DS TS AVS SCMA MMS PTA 2 REGION: PR3 KP, CI K, AP

METHOD: Aerial Ground Boat

3 DATE: 4-27-90 15 HIGH TIDE TIMES: 1 21 TEAM RECORDER: Aimee Weseman

4 START TIME: 0905 16 HIGH TIDE HTS: 1 22 OBSERVERS: Rick Gustin

5 STOP TIME: 1005 17 LOW TIDE TIMES: 1 23 AGENCY: ADFG

6 SEGMENT #: KN-205 18 LOW TIDE HTS: 1 24 PHOTOS TAKEN: Y N

7 STATION #: _____ 19 TIDE HT AT SURVEY: _____ Roll #: _____ Frame: _____

8 K-UNIT: _____ Ebb Slack Flood Slack 25 VIDEOS TAKEN: Y N TAPE#: _____

9 STAT AREA: _____ 20 USGS QUAD: S B 2 Starts: 984 Ends: 1057

10 LAT: _____ 11 LONG: _____ 26 SAMPLES TAKEN Y N Number _____

12 SOURCE: Map Loran _____ Oil _____

13 LOCATION: Knight I - South Arm, Bay of Isles Sediment _____

14 DESCRIPTION: _____ Biological _____

Water _____

EXTENT OF OIL

	SHORELINE				STREAM			
	L	V	HP	S	L	V	HP	S
27 SURFACE COVERAGE								
28 SURFACE THICKNESS	4cm	6cm						
29 PENETRATION								

30 OVERALL OIL IMPACT: N VL B N H

31 OIL TYPES: Pooled Mousse Tar Asphalt Sludge Stain

32 OILED DEBRIS: Y N snow covering STZ

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

34 WAVE EXPOSURE: High Moderate Low

35 SUBSTRATE TYPE: Bedrock Rock 10 Cobble 40 Gravel 40 Sand 10 Mud/silt _____

36 CATALOGED ANAD. FISH BREAST Y N

37 CATALOG #: 226-30-16860

38 STREAM NAME: _____

39 OIL IN STREAM BED? Y N

40 OIL ON STREAM BANKS? Y N

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

42 OIL WITHIN 1 MILE OF STREAM Y N

Where: _____

43 ANADROMOUS FISH PRESENT? Y

44 ANADROMOUS FISH OBSERVATION

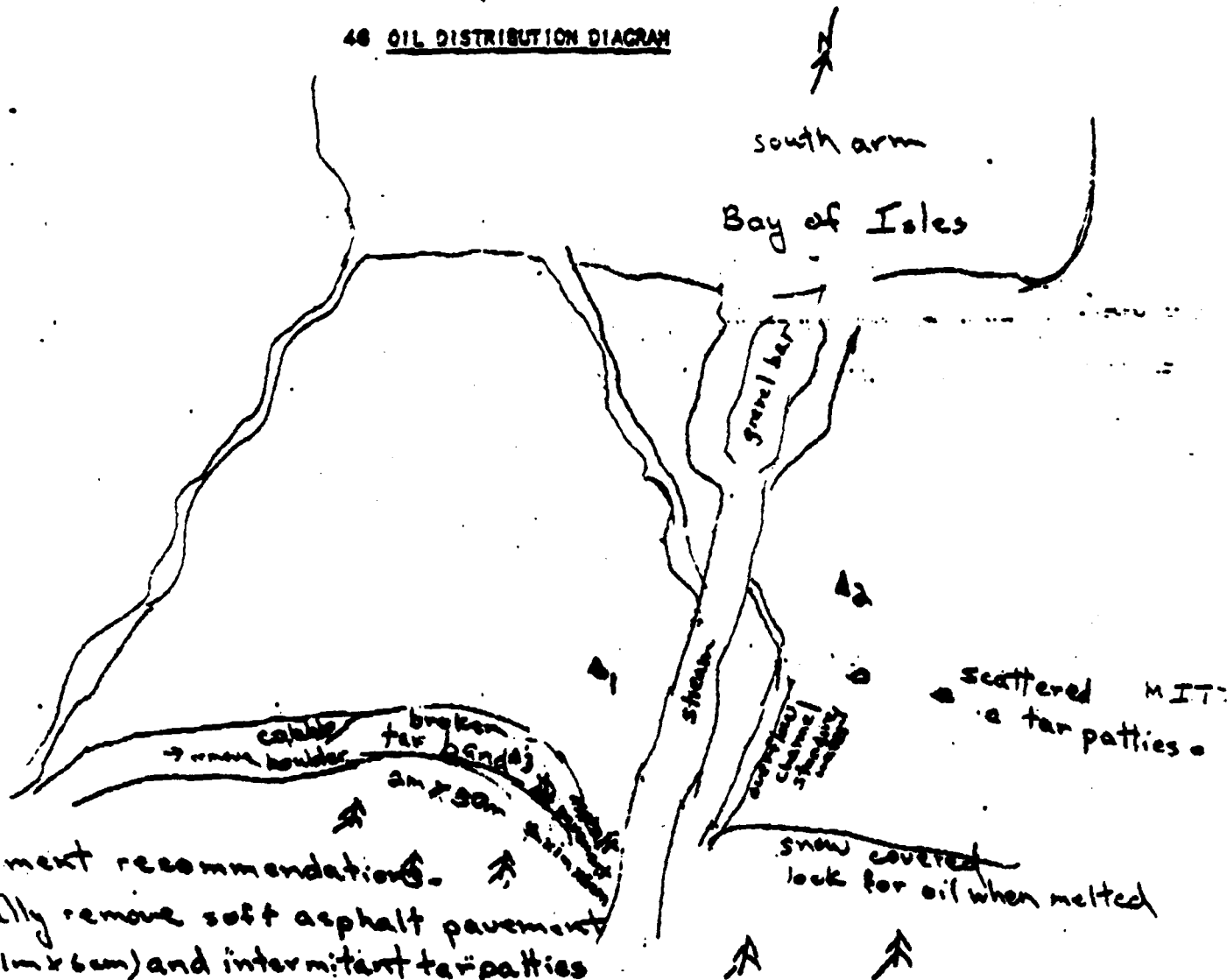
Species	Aerial	Ground

COMMENTS: a large, flat rock/cobble beach. Oil noted includes a narrow band of scattered tar balls & patties on the east side of stream along the MITZ and an intermittent tar band, 50m x 2m x 4cm deep along the LITZ on the west side of the stream. Included in this band on its near stream edge is an area of continuous salt rock salt underneath. 4m x 1m x 1m

ACE 7376924

FRAME(S)	DESCRIPTION
	pit 1 2.5cm - no visible oil
	pit 2 2.0cm - no visible oil
	pit 3 1.6cm - 4cm oil
	pit 4 1.2cm 6cm oil

48 OIL DISTRIBUTION DIAGRAM



Treatment recommendations.
 Manually remove soft asphalt pavement
 (4m x 1m x 6cm) and intermittent tar patties
 (50m x 2m) along the UITS on the west
 side of the stream

Remove scattered tar patties in thin line
 50m x .5m along the MITZ on the east side of
 stream

Check for oiled debris along the SITS and remove
 any encountered (now snow-covered)

ACE 7378925

DATE 4 127 90

CHECKLIST

- **N Amer**
- **Approx. Size**
- **Body/Tab Body**
- **Cl Dist.**
- **Width**
- **Length**
- **% Cover**
- **Substrate Character**
- **Ecol. PIVOTALITY**
- **SHL**
- **Profile Location(s)**
- **Profile(s)**
- **Fl Location(s)**
- **Photo Location(s)**

LEGEND

1 A
PH - No Subscriptions OK

Fig. 3. Substrate C9

CTAC
Controlled Traffic Distribution

CT/O
Broken Distribution

CT/P
/ Discussion

51/3

lll
Ond Vegetation

From location, direction,
and number

Oil Character Length (in): AP 10 PD 5 CV CT ST MS PT 17.5 TB 7.5 FL " ND 20

[illegible]

ACE 7378923

APR-27-1990 19:56 FROM EXON OMD CORDOVA TO SCAT TEAM P.12

STREAM 16640

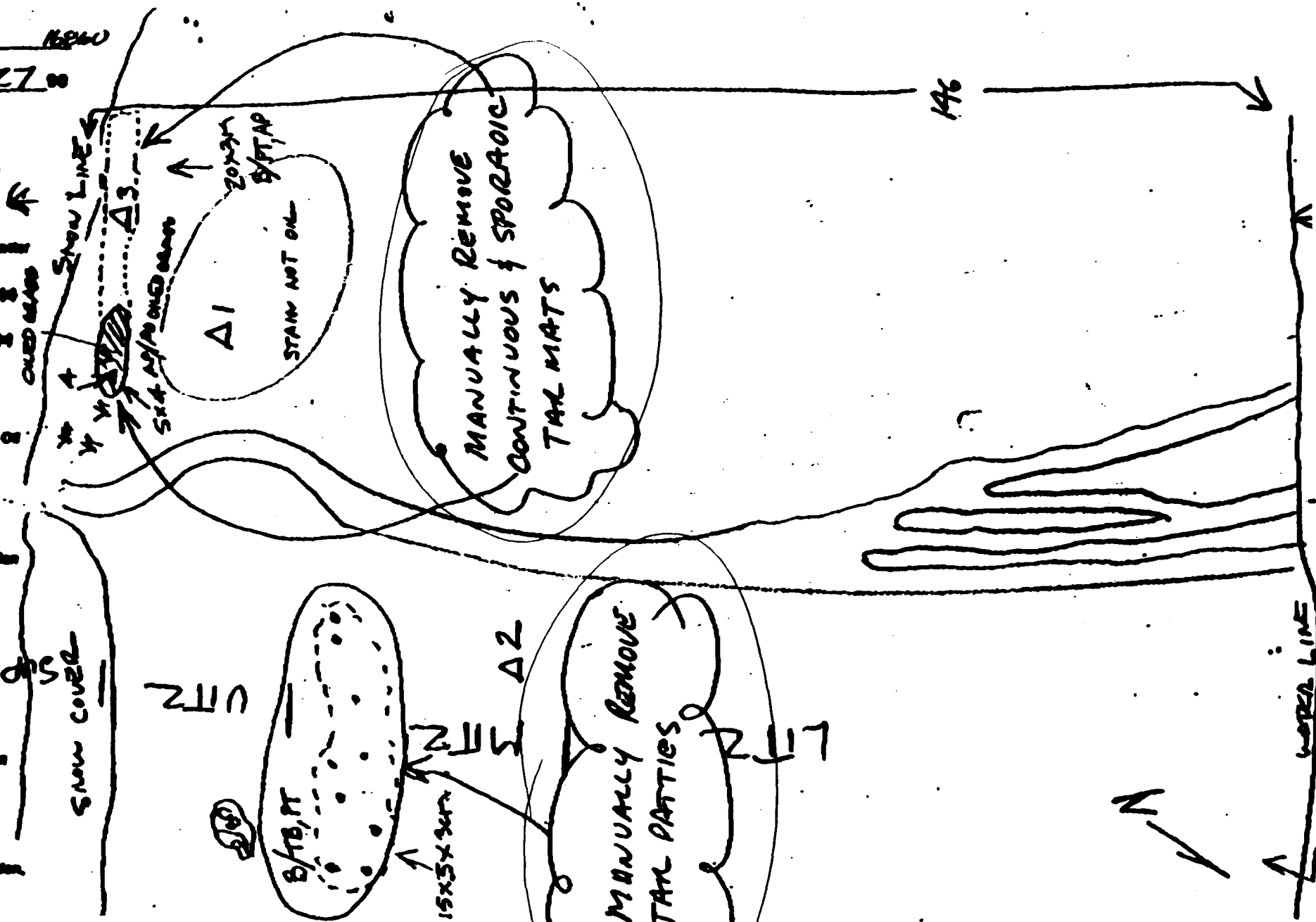
DATE 4 127 90

CHECKLIST

- ☐ N Arrow
- ☐ Approx. Scale
- ☐ Spot/Sub Study
- ☐ CB Dist
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. INFLUENCE
- ☐ SCL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ PI Location(s)
- ☐ Photo Location(s)

LEGEND

- ☐ A
- PI - No Substrate Oil
- ☐ A
- PI - Substrate Oil
- ☐ CT/C
- Continuous Distribution
- ☐ CT/B
- Broken Distribution
- ☐ CT/2
- Py Distribution
- ☐ CT/3
- Splashed Distribution
- ☐ lll
- Clad Vegetation
- ☐ ..
- Photo location, direction, and number



ACE 7378922

Oil Character Length (m): AP 10 PO 5 CV CT ST NO PT 17.5 TB 7.5 FL NO NO 20

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/ KN-205 STREAM NO: 226-30-16860 DATE 4/27/90

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)

2M Herring spawning (4/1 to 6/15)

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to unoiled biota and substrate. Subject stream is located within KN-205-B (2 of 2). Care should be taken to minimize foot traffic across productive beach.

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: _____ DATE: _____

Subsurface Oil Observed: Yes X No _____ Maximum Depth 6 cm

RECOMMENDATIONS:

 No Treatment Recommended

 X Treatment Recommended

 X Manual Pickup

 Bioremediation

 X Tarmat Removal

 Snare/Absorbent Booms

 Oil Snares (pom poms)

 Absorbents (pads, rolls, etc)

 Spot Washing: _____ Wands

 Beach Cleaner

 Other (see comments)

COMMENTS: Recommended treatment includes 1) manual pickup of oiled grass and tar patties in area indicated on sketch map, and 2) manual removal of tarmats in areas indicated on sketch map. Work should be conducted between 6/15 and 7/10 due to salmon stream and herring spawning constraints. Check supratidal zone during cleanup for any oiled debris.

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____

EXXON _____

NOAA _____

USCG _____

FOSC: _____ DATE: _____

could check for oiling
48 PHOTOLOG

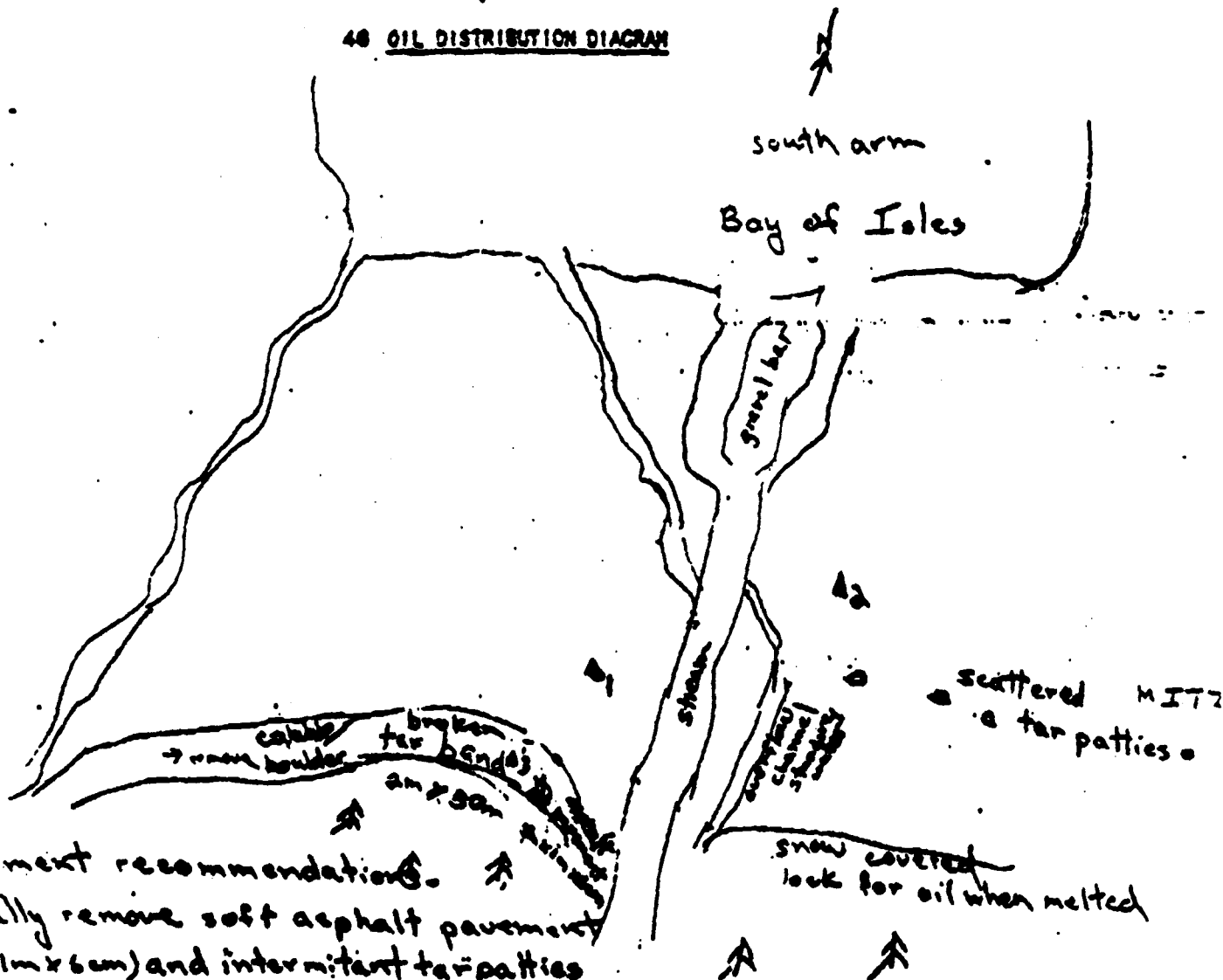
39/
KN 130?
226-30-1

FRAME(S)

DESCRIPTION

Oil 2.2cm - no visible oil
Oil 2.0cm - no visible oil
Oil 3.16cm - 4cm oil
SIT 4 - 1.2cm 6cm oil

48 OIL DISTRIBUTION DIAGRAM



Treatment recommendations.
Manually remove soft asphalt pavement
(4m x 1m x 6cm) and intermittent tarpatties
(50m x 2m) along the UITZ on the west
side of the stream

Remove scattered tar patties in thin line
50m .5m along the MITZ on the east side of
stream

check for oiled debris along the SITZ and remove
any encountered (now snow-covered)

Sample taken
Photo frame 2 and

ACE 7378915

STREAM: NEBU

DATE 9/27/00

CHECKLIST

- ☐ N Arrow
- ☐ Approx. Body
- ☐ Body/Head Body
- ☐ Ch. Dist.
- ☐ Width
- ☐ Length
- ☐ S. Cover
- ☐ Substrate Character
- ☐ Est. PROBABLY
- ☐ S.H.
- ☐ Photo Location(s)
- ☐ Position
- ☐ U Location(s)
- ☐ Taro Location(s)

LEGEND

1 A
PT - No Substrate Oil

2 A
PT - Substrate Oil

CT/C
Continuous Distribution

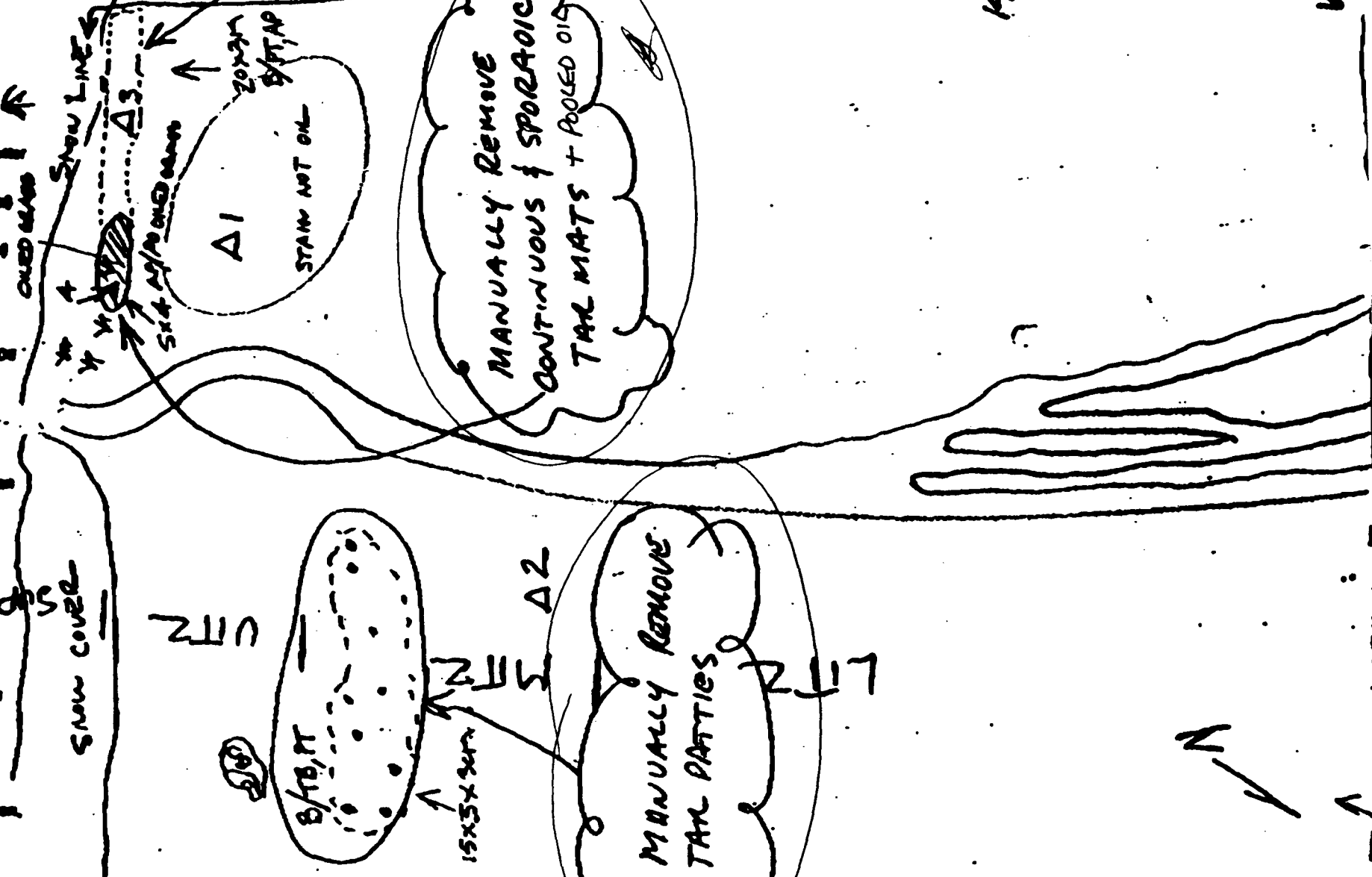
CT/B
Broken Distribution

ST/C
Distribution

ST/B
Spotted Distribution

lee
Clad Vegetation

Photo location, direction,
and number



Oil Character Length (in): AP 10 PO 5 CV CT ST NO PT 17.5 TD 7.5 FL NO 20

ACE 7378913

ANADR US FISH STREAM EVALUATIONSEGMENT ST/ KN-205 STREAM NO: 226-30-16860 DATE 4/27/90

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)

2M Herring spawning (4/1 to 6/15)

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to unoiled biota and substrate. Subject stream is located within KN-205-B (2 of 2). Care should be taken to minimize foot traffic across productive beach.

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: [Signature] DATE: 5/10/90Subsurface Oil Observed: Yes X No Maximum Depth 6 cm

RECOMMENDATIONS:

 No Treatment RecommendedX Treatment RecommendedX Manual Pickup BioremediationX Tarmat Removal Snare/Absorbent Booms Oil Snares (pom poms) Absorbents (pads, rolls, etc) Spot Washing: Wands Beach Cleaner Other (see comments)

COMMENTS: Recommended treatment includes 1) manual pickup of oiled grass and tar patties in area indicated on sketch map, and 2) manual removal of tarmats in areas indicated on sketch map. Work should be conducted between 6/15 and 7/10 due to salmon stream and herring spawning constraints. Check supratidal zone during cleanup for any oiled debris.

TAG COMMENTS: Monitors to Assess Suitz.TAG APPROVAL DATE: 5/10/90.ADEC Art Weimer Art WeimerEXXON Andy Teaz Andy TeazNOAA Bruce Wescott Bruce WescottUSCG D.D. Rome D.D. RomeFOSC: [Signature] DATE: 5-15-90

CAC Rep to be on site.

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/ KN-205 STREAM NO: 226-30-16860 DATE 4/27/90

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)
2M Herring spawning (4/1 to 6/15)

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to unoiled biota and substrate. Subject stream is located within KN-205-B (2 of 2). Care should be taken to minimize foot traffic across productive beach.

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: [Signature] DATE: 5/10/90

Subsurface Oil Observed: Yes X No Maximum Depth 6 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> </u> Bioremediation | <u> </u> Spot Washing: <u> </u> Wands |
| <u> X </u> Tarmat Removal | <u> </u> Beach Cleaner |
| | <u> </u> Other (see comments) |

COMMENTS: Recommended treatment includes 1) manual pickup of oiled grass and tar patties in area indicated on sketch map, and 2) manual removal of tarmats in areas indicated on sketch map. Work should be conducted between 6/15 and 7/10 due to salmon stream and herring spawning constraints. Check supratidal zone during cleanup for any oiled debris.

TAG COMMENTS: MONITOR TO ASSESS SUITZ.

TAG APPROVAL DATE: 5/10/90.
ADEC Art Weisman Art Weisman
EXXON Andy Teal Andy Teal
NOAA Bruce Wescott Bruce Wescott
USCG D.D. Rome D.D. Rome

FOSC: [Signature] DATE: 5-15-90
CAC Rep to be on site.

36/53

Seg ID: KN-205 Subdiv: 226-30-16860
Survey Date: 4/27/90
Comments by: Ken Critchlow

This site contained a small area of pooled oil and a more extensive band of very scattered tarballs in the STZ on the right side of the stream. On the left side of the stream in the MITZ was a large area containing small tarballs that were widely scattered in low density.

The intertidal biota on this extensive beach is extremely productive and abundant; ~~in~~ care should be exercised to minimize foot traffic across the beach. I recommend that the pooled oil and tarballs be removed by a two person crew using shovels.

RR Critchlow

37/53

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / KN-205 SUBDIVISION: ASC* 226-30-16860 DATE 27 APR 90

USCG
NAME Kerwin L. Drchen SIGNATURE cwo K. L. Drchen

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED
COMMENTS

~~ADEC~~ → ADF&G
NAME Aimee Weseman SIGNATURE Aimee Weseman

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED
COMMENTS

Manually remove soft asphalt pavement (4m x 1m x 6cm) and intermittent tar patties (50m x 2m) along the UITZ on the west side of the stream

Remove scattered tar patties in a thin (50m x .5m) along the MITZ on the east side of the stream

Check for oiled debris along the SITZ and remove any encountered
It's now snow covered.

~~LAND MANAGER~~ → NONE
NAME _____ SIGNATURE _____

☐ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED
COMMENTS





OFFICIAL PHOTOGRAPH ADF&G EXXON VALDEZ OIL SPILL

OFFICE: ANCHORAGE

DATE: 05/20/89

TIME: -0-

SEGMENT#: KN-205

STATION#: -0-

LOCATION: Bay-of-Isles, Knight Island

REASON FOR TAKING PHOTO: Oil in grass around cataloged anadromous fish stream (226-30-16860).

TAKEN BY: Robin Willis

INITIALS: Rmw

ROLL #: 89RMW003V FRAME #: 07

EVIDENCE ID#: _

ACE 7378889



OFFICIAL PHOTOGRAPH ADF&G EXXON VALDEZ OIL SPILL

OFFICE: ANCHORAGE

DATE: 05/20/89

TIME: -0-

SEGMENT#: KN-205

STATION#: -0-

LOCATION: Bay-of-Isles, Knight Island

REASON FOR TAKING PHOTO: Oil in grass at entrance to cataloged
anadromous fish stream (226-30-16860).

TAKEN BY: Robin Willis

INITIALS: Rmw

ROLL #: 89RMW003V FRAME #: 08

EVIDENCE ID#: _

ACE 7378890



OFFICIAL PHOTOGRAPH ADF&G EXXON VALDEZ OIL SPILL

OFFICE: ANCHORAGE DATE: 05/20/89 TIME: -0-

SEGMENT#: KN-205 STATION#: -0-
LOCATION: Bay-of-Isles, Knight Island

REASON FOR TAKING PHOTO: Cataloged anadromous fish stream
(226-30-16860). Boat in distance belongs to Dames and
Moore who were contracted to do a study on the stream.

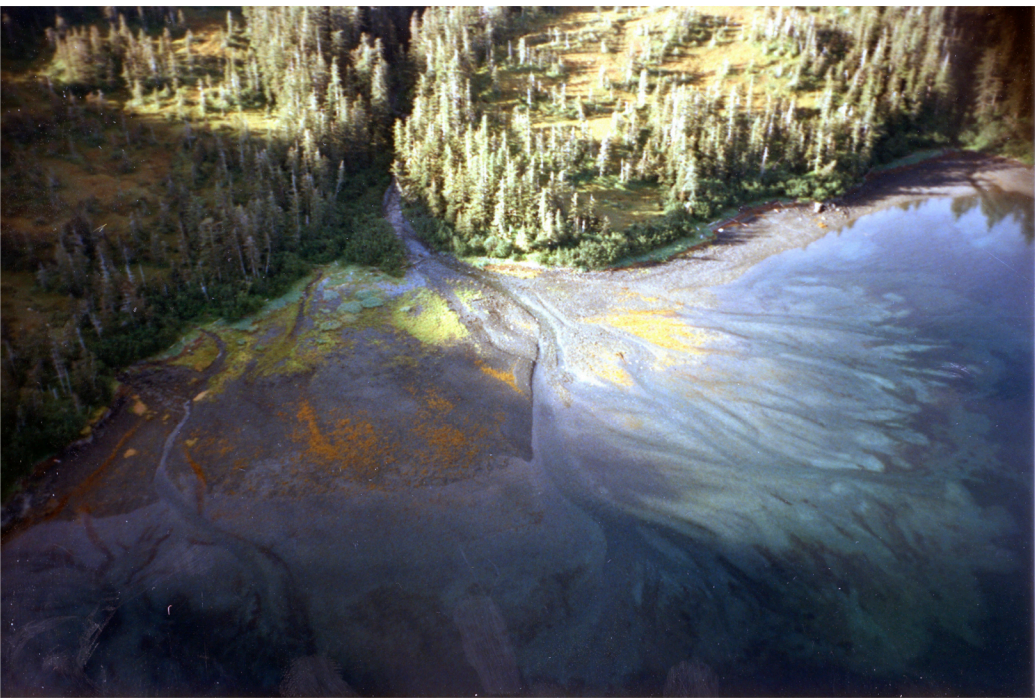
TAKEN BY: Robin Willis

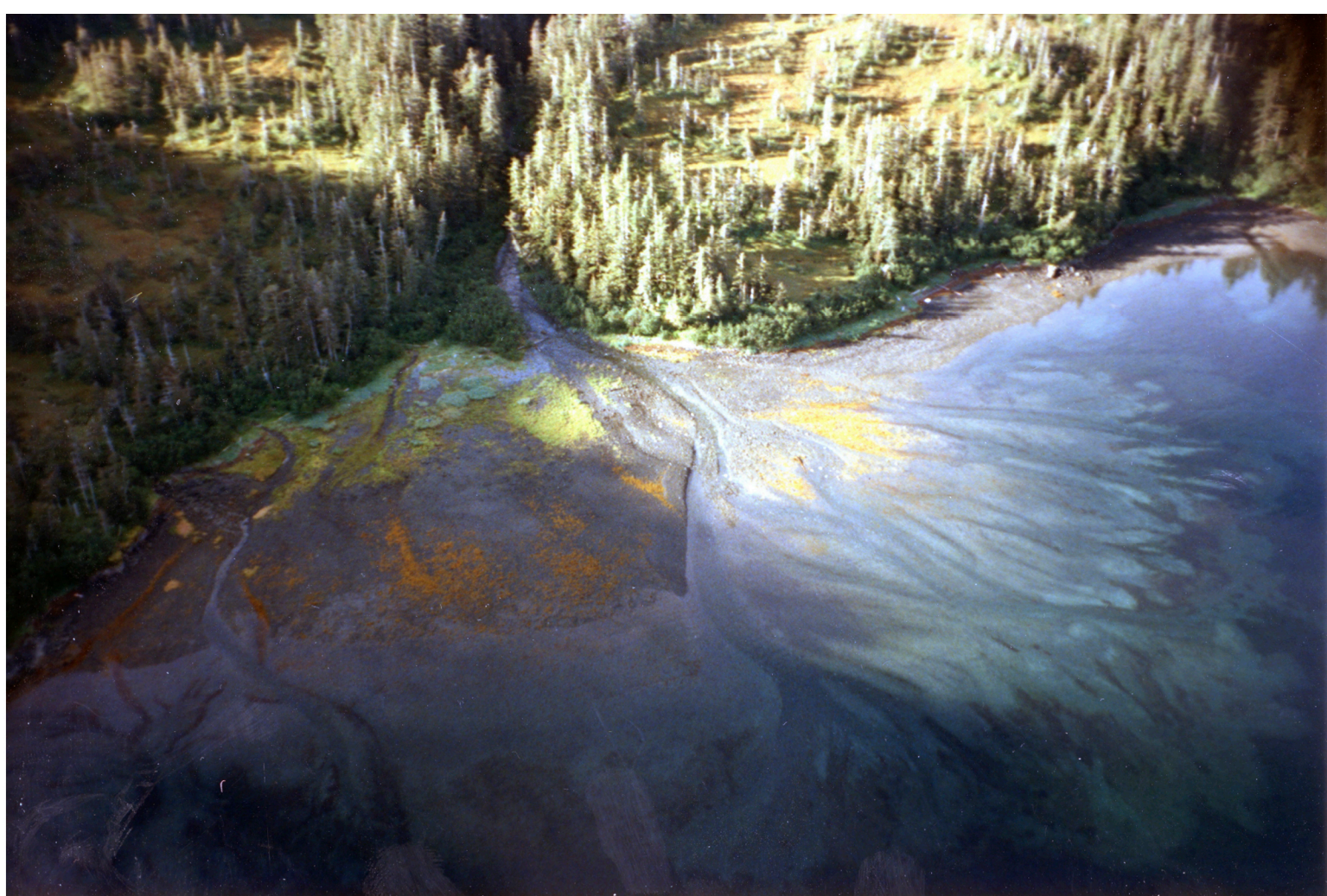
INITIALS: Rmw

ROLL #: 89RMW003V FRAME #: 09

EVIDENCE ID#: _

ACE 7378891





Roll #: _____ Frame #: _____

OFFICIAL PHOTOGRAPH ADF&G EXXON VALDEZ OIL SPILL

OFFICE: VALDEZ DATE: 08/22/89 TIME: -0-

SEGMENT#: KN205 STATION#: 2263016860
LOCATION: SOUTH ARM, BAY-OF-ISLES, KNIGHT ISLAND

REASON FOR TAKING PHOTO: AERIAL VIEW - LOCATION OF STREAM SEDIMENT
SAMPLE SITE. (MAP 40)

TAKEN BY: RICK GUSTIN

INITIALS: _____

ROLL #: 89RLG004V FRAME #: 15

EVIDENCE ID#: 10251

ADEC

OFFICIAL PHOTOGRAPH

ACE 7378896



OFFICIAL PHOTOGRAPH

ADEC

OFFICIAL PHOTOGRAPH ADF&G EXXON VALDEZ OIL SPILL

OFFICE: VALDEZ

DATE: 08/16/89

TIME: 1051

SEGMENT#: KN205

STATION#: 2263016860

LOCATION: BAY-OF-ISLES, KNIGHT ISLAND

REASON FOR TAKING PHOTO: TOM W. CROWE - GRAVEL SAMPLING IN UPPER
INTERTIDAL.

TAKEN BY: RICK GUSTIN, D. MORRISON

INITIALS: _____

ROLL #: 89RLG003V FRAME #: 06

EVIDENCE ID#: _____

Roll #: _____ Frame #: _____

ACE 7378894



OFFICIAL PHOTOGRAPH

ADEC

OFFICIAL PHOTOGRAPH ADF&G EXXON VALDEZ OIL SPILL

OFFICE: VALDEZ

DATE: 08/16/89

TIME: 1058

SEGMENT#: KN205

STATION#: 2263016860

LOCATION: BAY-OF-ISLES, KNIGHT ISLAND

REASON FOR TAKING PHOTO: TOM W. CROWE - TAKING FINGERPRINTING
SAMPLE.

TAKEN BY: RICK GUSTIN, D. MORRISON

INITIALS: _____

ROLL #: 89RLG003V FRAME #: 07

EVIDENCE ID#: _

Roll #: _____ Frame #: _____

ACE 7378895





OFFICIAL PHOTOGRAPH

ADEC

OFFICIAL PHOTOGRAPH ADF&G EXXON VALDEZ OIL SPILL

OFFICE VALDEZ

DATE: 08/16/89

TIME 1047

SEGMENT#: KN205

STATION#: 2263016860

LOCATION: BAY OF ISLES, KNIGHT ISLAND

REASON FOR TAKING PHOTO: TOM W CROWE GRAVEL SAMPLING IN MID
INTERTIDAL

TAKEN BY: RICK GUSTIN, D MORRISON INITIALS _____

ROLL #: 89RLG003V FRAME #: 05 EVIDENCE ID# _____

Roll #: _____ Frame #: _____

ACE 1378893



ACE 7378892

Roll #: _____ Frame #: _____

OFFICIAL PHOTOGRAPH ADF&G EXXON VALDEZ OIL SPILL

OFFICE: VALDEZ

DATE: 08/16/89

TIME 1035

SEGMENT# KN205

STATION# 2263016860

LOCATION BAY-OF ISLES, KNIGHT ISLAND

REASON FOR TAKING PHOTO TOM W CROWE GRAVEL SAMPLING IN LOWER
INTERTIDAL

TAKEN BY RICK GUSTIN, D MORRISON

INITIALS _____

ROLL # 89RLG003V FRAME # 04

EVIDENCE ID# _____

ADFC

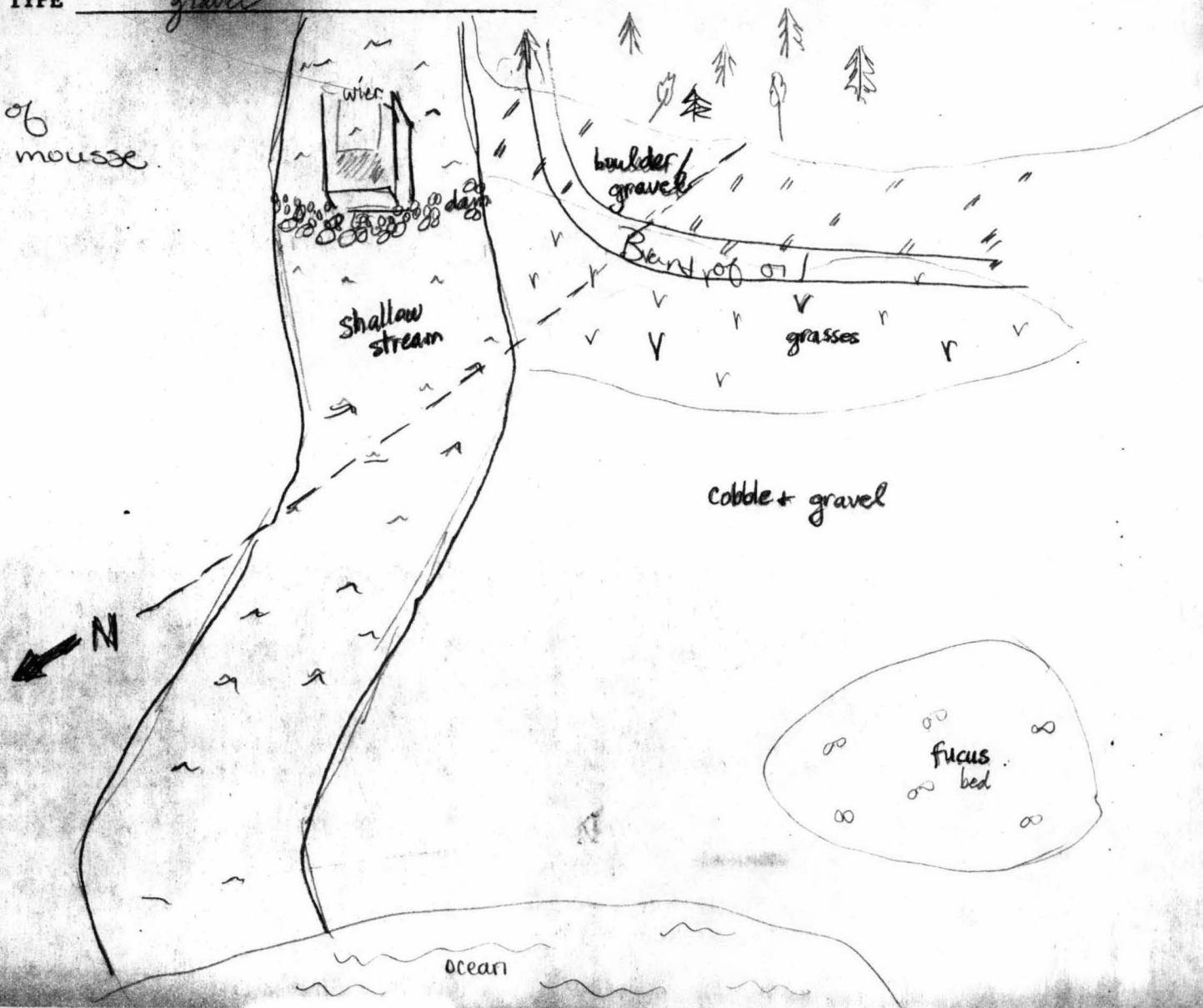
OFFICIAL PHOTOGRAPH

KN005

DEC
Cundlach survey

PROFILE 107 LOCATION Bay of Isles DATE 06/08/89
RECORDERS CR, KP, AW PHOTOGRAPHS CR 30/16-51 TIME _____
TIDE STAGE past low WEATHER overcast WIND SPEED _____ WIND DIRECTION _____
PROFILE ANGLE 181° WAVE HT. _____ SAMPLES TAKEN: BIO _____ CHEM _____ SED _____
SEDIMENT TYPE gravel

- band of
pooled mousse.



DATE 06/08/89PROFILE 107START 1330FINISH 1350TIDAL STAGE just lowFRONT STAKE HT 72 cmLOCATION Bay of Isles - at fish weirLOW TIDE 1129

BACK STAKE HT

HORIZONTAL (M)	.58	2.90	^{1.71} 15.2	2.88	2.68	2.21	8.45	2.65								
VERTICAL (CM)	-43.0	-40.0	^{14.2} 171.0	-3.0	-12.5	-11.8	-6.0	-0.0								
% OIL COVER	-	-	95	0	1	1	-	-								
OIL THICKNESS (cm)	-	-	⁵ 3	0	4.1	-	-	-								
COMMENTS	to edge of active beach to top edge of oil + grasses mouse layer in rocks and grasses to bottom edge of grasses oil splashes on rock to edge of stream across river															

penetration (cm) Cumulative

Horz (m)	.58	4.48	6.19	9.07	11.75	13.96	22.41	26.06								
Vert (cm)	-43.0	-183.0	-197.2	-200.2	-212.7	-224.5	-230.5	-230.5								
oil thick (m)			95	0	1	1										
pene (m)			1005		4.001											

CHECK LIST

SAMPLES TAKEN -

depth of oil burial -

layer thickness -

oil penetration =

grain size -

BIOLOGICAL IMPACT

CLEANUP: # men -

equipment type & # -

Entered *Lundell Stewart*

[illegible]

SUMMARY SHEET
FOR DIFFICULT-TO-COPY ITEMS

ALASKA/CIVIL EXXON

Folder ACE # 1369627

CDP BOX # 12306

Begin ACE Number 7378889

End ACE Number 7378896 *Baw*

DOCUMENT TYPE:

____ BOOK

____ BLUEPRINT

X PHOTOS

____ VIDEO

____ SLIDES

____ AUDIO CASSETTE

____ MAP OR CHART

____ OTHER-Identify document type

____ COMPUTER PRINTOUT

MARGINALIA: YES ✓ NO _____

AUTHOR: _____

DATE OF PUBLICATION: _____

VERBATIM TITLE: _____

INFERRED TITLE: 8 Photos - Exxon Valdez Oil Spill
Location: Bay of Isles, Knight Island
Date: 5/20/89 Office: Anchorage Time - 0-
Segment #: KN-205, Station - 0- Roll #: 89RMW003V
Taken by: Robin Willis - Official Photograph
AD 7 & 8

ADDITIONAL INFORMATION: Reason for taking photos
ACE # 7378889 - Oil in grass around cataloged
Anadromous fish stream (226-30-16860). Frame #: 07,
ACE # 7378890 - Oil in grass at entrance
to cataloged Anadromous fish stream (226-30-16860)
Frame #: 08, ACE # 7378891 - Cataloged Anadromous fish
stream (226-30-16860). Boat in distance belongs to
Dames & Moore who were contracted to do a study on
the stream. Frame #: 09, ACE # 7378892 -
Tom W. Crowe - Gravel Sampling in
Lower Intertidal. Frame #: 04, ACE # 7378893 -
Tom W. Crowe - Gravel Sampling in mid-intertidal - over

H:\ZMCL\SUMMARY.FRM
Revised 1/30/91

ACE 7378888/A

Additional Information Cont'd:

Frame #: 05, ACE # 7378894: Tom W. Crowe - Gravel
Sampling in upper intertidal. Frame #: 06,
ACE # 7378895 - Tom W. Crowe - Taking fingerprinting
sample. Frame #: 07, ACE # 7378896 - Aerial view -
Location of stream sediment sample site. (map 40)
Frame #: 15

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: KN205

DATE: 10/01/89

LOCATION: W BAY OF ISLES, KNIGHT I.

TIME: 9:05

Survey Type: Ground

Team: G. Pavia

WEATHER AND SEA CONDITIONS

Weather: Sunny, Cloudy, Rain Wind Direction: SW
Sea State: Calm Knots: 0-15

Low Tide: 21:11 Feet: -0.3 High Tide: 2:51 Feet: 11.7
Low Tide: 8:43 Feet: 1.46 High Tide: 14:47 Feet: 12.9

SHORELINE DESCRIPTION

Shoretypes: LR,B,C
(H=headland, LR=low-lying rock, B=beach, C=cove, L=lagoon, M=marsh)

Wave Exposure: H,M,L (H=high, M=moderate, L=low)

Shoreline Composition: R,B,C,G,S
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L,M
(N=none, VL=very light, L=light, M=moderate, H=heavy)
Area of Impact: S,H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 5 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 10 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 40%

Presence of Oiled Driftwood (y/n): y

Oil Types: SY,T

(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: KN205-1 / KN205-2 / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n Barnacles (y/n): y Mussels (y/n): n
Dead Mammals: 0 Dead Birds: 0

SOLID WASTE FOUND

Type: Few localities, boom, cleanup debris, signs
Bags Collected: 0

Draft

Printed: 12/12/89 11:34

ACE 7378897
+IAC/RT

Walk-a-thon

Rick Gustin
FWT3
June 2, 1990
Corinthian PWS

KN205B
Bay Isles Knight Is
South Arm
ASC#226-30-16860
June 2, 1990

Work began approximately 0700 on the beach east of the stream channel. Ed Hoch Veco 1's crew was on the job. Scattered tar patties with some OR(modtoheavy) beneath were removed. When I arrived by boat at 0935 the crew was working the UITZ on the west side of the stream. I walked the stream with a bucket and shovel and removed some remaining tar patties and scattered amounts of OR gravel. The work on the west bank UITZ near the grass was nearly complete, and was satisfactory. From the time I arrived on the site at approximately 0930 until I left at 1300 there was no Coast Guard rep, ADEC rep, or Exxon rep on site. This was also the case the day before when I arrived on the KN201 site in west arm. After chasing about for an hour or so I finally tracked them down. They had been on the Corinthian. Approximately one super sack of oiled gravel was removed from the stream site. The job there was acceptable and I have no further suggestions or criticisms.

ACE 7378898

State of Alaska
Department of Fish and Game
Habitat Division

Page of

Field Inspection Report

Date June 2 90 Time 1200

Location: (Logging unit/Road/Waterbody) KN205 B BAY ISLES
SOUTH ARM KNIGHT IS.
ASC # 226-30-16860

Operator/Contractor: EXXON/VECO

Individuals present at time of inspection:
Name Representing

No U.S.C.G. rep or ADEC rep. were present.

Activity/Situation Observed: The oiling condition here consisted
of scattered thin tar patties on both east-west banks
of stream channel in upper to mid ITZ. On the west
bank in the U.ITZ and some Supra ITZ a continuous
tar mat began at the stream and continued curving
westward for approx. 30 meters. This band was excavated
and removed by shovel front loader.

Pertinent Statutes/Regulations: AK Statute Title 16

Recommended/Required Action (Specify): A good job of manual
removal and tilling was done by Ed Hoch's
VECO crew. I worked with them removing 3 buckets
of scattered tar patties myself from 9:45 till 1200
During this time no U.S.C.G., ADEC, or Exxon
reps. were present. I walked both sides of the
stream channel covered during the sand scat and
was satisfied with the results.

By (date) June 2 90 (if applicable)

Please note: This is not a final inspection report. It is intended to provide the operator/contractor with a notice of problems or concerns which require immediate attention. If necessary, a final inspection report will be issued at a subsequent date.

Rock Luster ADEC Tech 3
Fish and Game Representative/Title Company Representative/Title

ADEC DEMOBILIZATION REPORT
FOR INIPOL AND CUSTOMBLEN TREATMENT

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

Attn: John Bauer
FAX 265-4666

From: _____ (please print)

RE: SEGMENT NUMBER KN205 SUBSEGMENT NUMBER B

ADEC REP Rowann Hudnall USCG REP Dan Pearcey

EXXON REP Al Snook BOAT NAME/SQUAD NUMBER Don Bollinger
Squad 3

Site #	Length (along shore m)	Area m ²	Inipol (gallons)	Customblen (lbs.)
--------	---------------------------	------------------------	---------------------	----------------------

See daily report + OG report for details

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. bio reapplication. Entire area treated with customblen due to low energy and proximity to active salmon spawning stream. USCG rep monitored treatment.

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

SOR + SOF. patchy coating U.I.T.Z.

Additional Comments (keep objective)

ADF+G was not notified prior to treatment. The segment was not identified as a stream on the schedule. Customblen was applied outside of 15m of the stream. ADF+G Aimee Weseman said OK after the fact and asked that we not ever treat within 100m of a stream until getting approval. we all agreed this won't happen again.

signature Rowann O. Hudnall

Date and time of demobilization from segment 4/30/90
Shoremon/Demob.bio 55/30/90

**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 14N205-B SUBSEGMENT NUMBER 226-30-16860

DEC REP BARBARA WINKLEY USCG REP JEFF FULLARD

EXXON REP CRAIG LEVINE BOAT NAME/SQUAD NUMBER COLUMBIA

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).

*Patches all seem to be gone
in this area.*

Additional Comments (keep objective)

signature

Barbara Winkley
Date and time of demobilization from segment 1830 6/2/90
Shoremon\55 5-12-90

K M 205-B

STREAM

225 30-1636-

LITZ

(5x4m) Δ1

Δ3

(20x3m)

15x5m x 3m

MITZ

Δ2

LITZ

1 } These three
2 } areas were
3 } all manually
removed with
+ rakes, rakes &
shovels

ADFG Rep

Reik Gustin
was present.

ADEC DEMOBILIZATION REPORT

To: Alaska Department of Environmental Conservation
Oil Spill Response Center
Anchorage, Alaska
Attn: John Bauer
FAX 265-4666, 265-4656

TODAY'S DATE 6/3/90RE: SEGMENT NUMBER KN205BSUBSEGMENT NUMBER ADEC REP BARBARA WINKLEYUSCG REP JEFF FULLARDEXXON REP CRAIG LEVINE

BOAT NAME/SQUAD NUMBER _____

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? If yes then describe amount of oil remaining (type, size of area and location).

YES. some oil covered gravel 2-5 cm
below clear gravel as indicated in
area ① on

Date and Time of demobilization from segment 400 hrs. 6/3/90

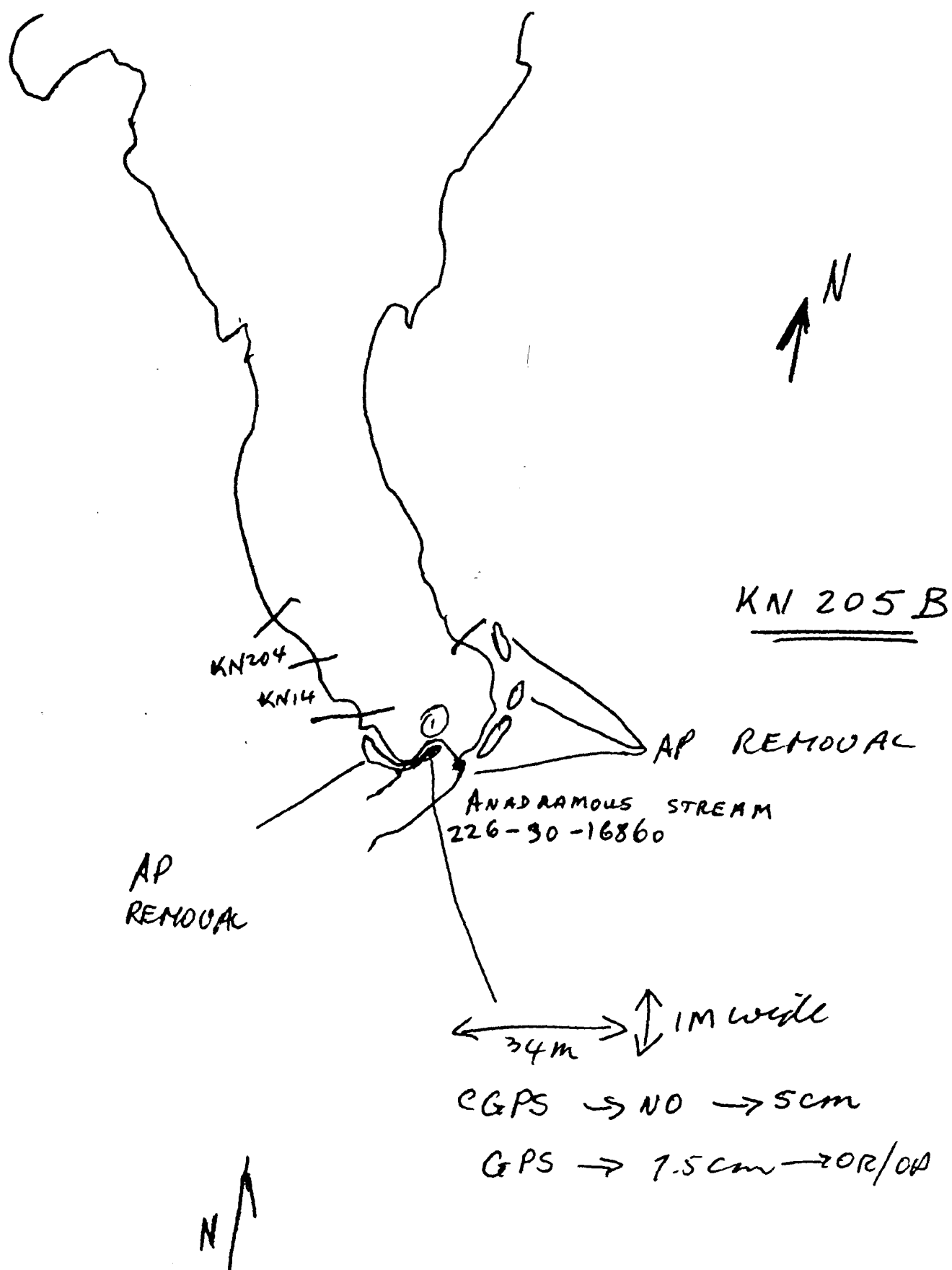
COMPLETE THIS FORM AND FAX TO ANCHORAGE AFTER DEMOBILIZATION FROM EACH SEGMENT.

Additional Comments (keep objective)

EXXON's Daily Logs give a total of 39 S.S. of
sediments taken from KN205B. Mine total is 19. They
said it was an error in ~~any~~ calculation ~~for~~ total. I would
Barbara Winkley correct it
signature

Revised 5/8/90

ACE 7378903



ADEC DEMOBILIZATION REPORT

To: Alaska Department of Environmental Conservation
Oil Spill Response Center
Anchorage, Alaska
Attn: John Bauer
FAX 265-4666, 265-4656

TODAY'S DATE 6/3/90RE: SEGMENT NUMBER KN205BSUBSEGMENT NUMBER ADEC REP BARBARA WINKLEY USCG REP JEFF FULLARDEXXON REP CRAIG LEVINE BOAT NAME/SQUAD NUMBER _____

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? If yes then describe amount of oil remaining (type, size of area and location).

YES some oil covered gravel 2-5cm
below clear gravel as indicated in
area ① on

Date and Time of demobilization from segment 400 hrs. 6/3/90

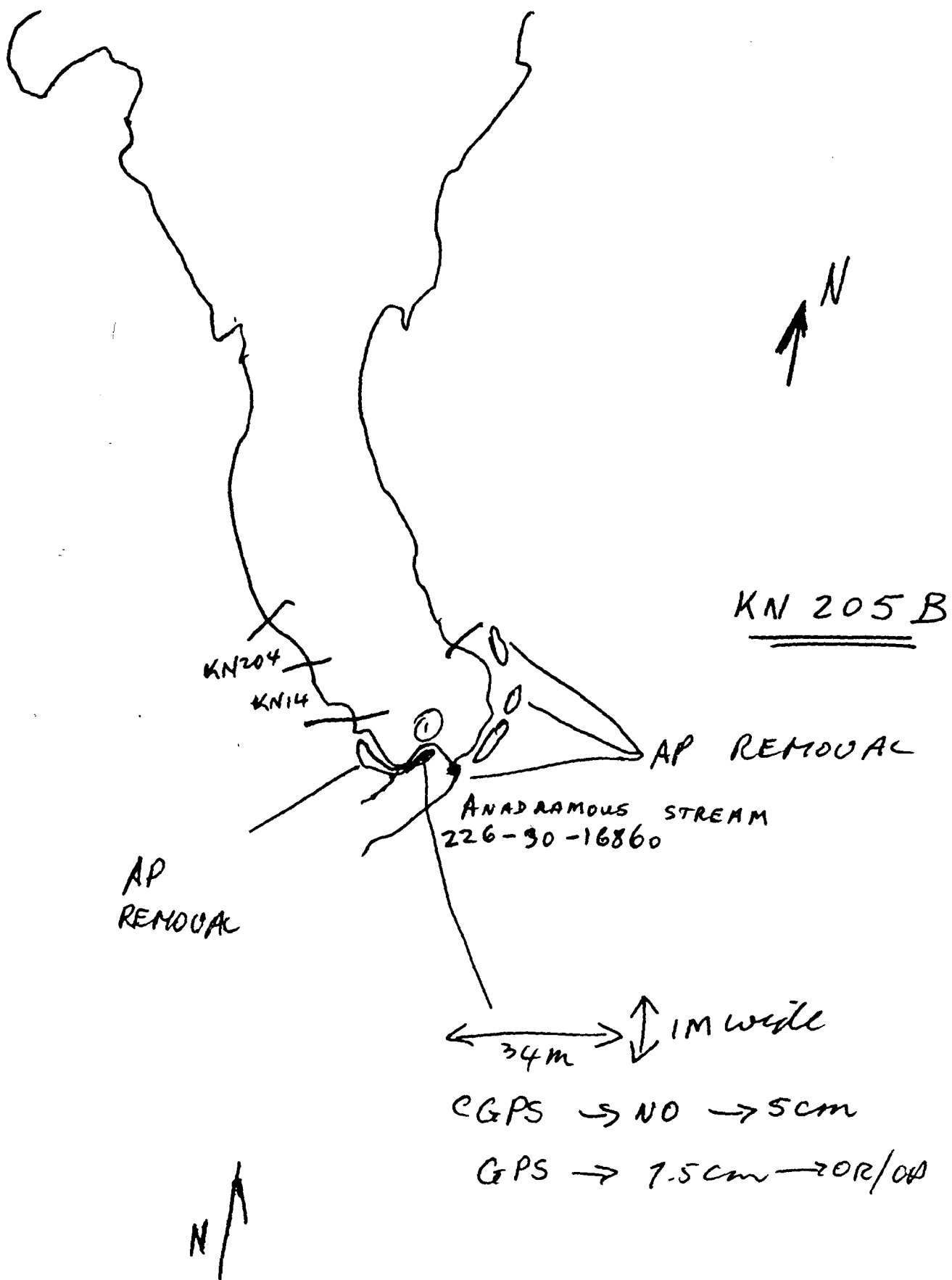
COMPLETE THIS FORM AND FAX TO ANCHORAGE AFTER DEMOBILIZATION FROM EACH SEGMENT.

Additional Comments (keep objective)

EXXON'S Daily Logs give a total of 395.5 of
sediments taken from KN205B. Mine total is 19. They
said it was an error in accumulative totals would
Barbara Winkley correct it
signature

Revised 5/8/90

ACE 7378905



A.S.A.P.

KN 205-a
Site 1

August 13, 1990

ADEC recommends the following treatment:

- 1) Remove all AP, MS, SOR, and any subsurface oil.
- 2) Following manual removal, all treatment areas and areas with small amounts of residual oil should be bioremediated using Inipol and Customblen.

ANADROMOUS FISH STREAM EVALUATION ADDENDUM

CONSTRAINTS FOR STREAM NO. 226-30-16860

SEGMENT KN-205 SUBDIVISION B

WORK WINDOW

Manual Pickup
Tarmat Removal

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 (226-30-16860) is in subdivision B. No constraint to manual pickup and tarmat removal.

2M Herring Spawning No constraint to manual pickup and tarmat removal.

OTHER ECOLOGICAL CONSIDERATIONS

No disturbance to stream bed or banks. Restrict boat traffic to essential minimum. Avoid damage to unhoiled intertidal and subtidal algae and seagrass. Avoid any unnecessary disturbance or damage to unhoiled biota and substrate.

SEE SUBDIVISION CONSTRAINT ADDENDUM KN-205B
FOR ADDITIONAL CONSTRAINT INFORMATION.

FOSC

Date

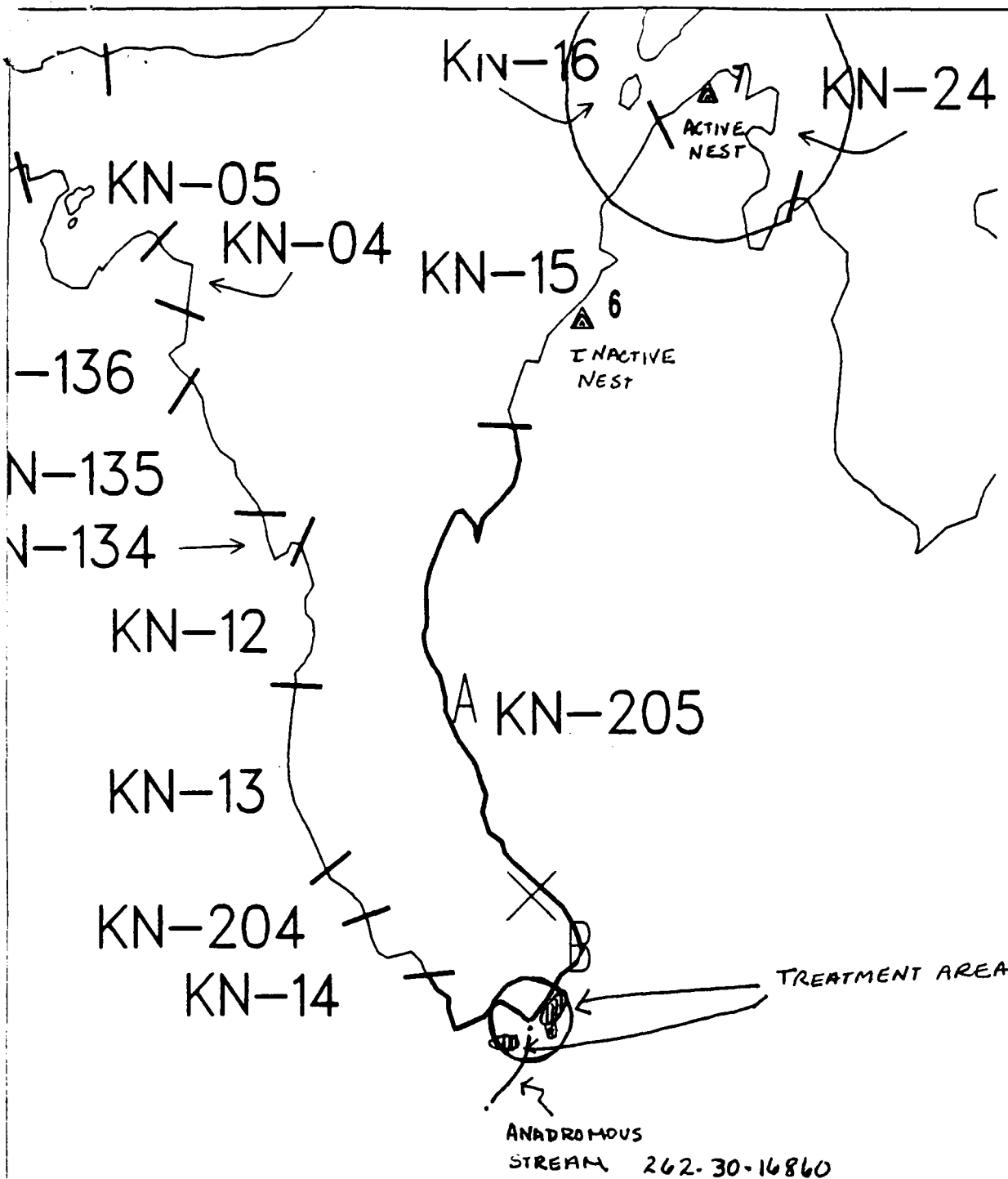
6-10-90

Prepared by

Date

6/8/90

ACE 7378908 +/SA



ANADROMOUS FISH STREAM EVALUATION (226-30-16860)

*Incorporates USFWS 6/1/90
Map of ACTIVE bald
eagle nests.



Exxon Company, USA
Map Key: KNI-KN-205
May 11, 1990



ECOLOGY MAP
SEGMENT KN-205
SUBDIVISION B (1 of 2)
METERS
0 435 870

★	Seabird Colony
▲	Eagle Nest

1 inch = 1427 feet

State of Alaska
Department of Fish and Game
Habitat Division

Page__ of__

Field Inspection Report

Date June 2 90 Time 1200

Location: (Logging unit/Road/Waterbody) KN205 B BAY ISLES
SOUTH ARM KNIGHT IS.
ASC # 226-30-16860

Operator/Contractor: EXXON/VECO

Individuals present at time of inspection:

Name Representing

No U.S.C.G. rep. or ADEL rep. were present.

Activity/Situation Observed: The oiling condition here consisted of scattered thin tar patties on both east & west banks of stream channel in upper to mid ITZ. On the west bank in the U.ITZ and some Supra ITZ a continuous tar mat began at the stream and continued carving westward for approx. 30 meters. This band was excavated and removed by shovel & gravel rake.

Pertinent Statutes/Regulations: AK Statutes Title 16

Recommended/Required Action (Specify): A good job of manual removal and tilling was done by Ed Hoch's VECO crew. I worked with them removing 3 buckets of scattered tar patties myself from 9:45 till 1200. During this time no U.S.C.G., ADEL, or Exxon reps. were present. I walked both sides of the stream channel covered during the mud rat and was satisfied with the results.

By (date) June 2 90 (if applicable)

Please note: This is not a final inspection report. It is intended to provide the operator/contractor with a notice of problems or concerns which require immediate attention. If necessary, a final inspection report will be issued at a subsequent date.

Rock Santa ADFG Tech 3
Fish and Game Representative/Title Company Representative/Title

State of Alaska
Department of Fish and Game
Habitat Division

Page of

Field Inspection Report

Date June 2 90 Time 1200

Location: (Logging unit/Road/Waterbody) KN205 B BAY ISLES
SOUTH ARM KNIGHT IS.
ASC # 226-30-16860

Operator/Contractor: EXXON / VECO

Individuals present at time of inspection:

Name Representing

No U.S.C.G. rep. or ADEC rep. were present.

Activity/Situation Observed: The oiling condition here consisted
of scattered thin tar patches on both east/west banks
of stream channel in upper to mid ITZ. on the west
bank in the U.ITZ and some supra ITZ a continuous
tar mat began at the stream and continued curving
westward for approx. 30 meters. this band was excavated
and removed by shovel front loader.

Pertinent Statutes/Regulations: AK Statutes Title 16

Recommended/Required Action (Specify): A good job of manual
removal and tilling was done by Ed Hoch's
Veco crew. I worked with them removing 2 buckets
of scattered tar patches myself from 9:45 till 1200
During this time no U.S.C.G., ADEC, or Exxon
reps. were present. I walked both sides of the
stream channel covered during the area and
was satisfied with the results

By (date) June 2 90 (if applicable)

Please note: This is not a final inspection report. It is intended to provide the operator/contractor with a notice of problems or concerns which require immediate attention. If necessary, a final inspection report will be issued at a subsequent date.

Rick Lantz ADEC Tech 3
Fish and Game Representative/Title Company Representative/Title

State of Alaska
Department of Fish and Game
Habitat Division

Page__ of__

Field Inspection Report

Date June 2 90 Time 1200

Location: (Logging unit/Road/Waterbody) KN205 B BAY ISLES
SOUTH AKM KNIGHT IS.
ASC # 226-30-16860

Operator/Contractor: EXXON / UECO

Individuals present at time of inspection:

Name Representing

No. U.S.C.G. rep. or ADEC rep. were present.

Activity/Situation Observed: The oiling condition here consisted
of scattered thin tar patches on both east-west banks
of stream channel in upper to mid ITZ. on the west
bank in the U.ITZ and some Supra ITZ a continuous
tar mat began at the stream and advanced carving
westward for approx. 30 meters. this band was excavated
and removed by shovel from 1/4 mile.

Pertinent Statutes/Regulations: AK Statutes title 16

Recommended/Required Action (Specify): A good job of manual
removal and filling was done by Ed Hoch's
UECO crew. I worked with them removing 3 buckets
of scattered tar patches myself from 9:45 till 1200
During this time no U.S.C.G., ADEC, or Exxon
reps. were present. I walked both sides of the
stream channel covered during the mud mat and
was satisfied with the results.

By (date) June 2 90 (if applicable)

Please note: This is not a final inspection report. It is intended to provide the operator/contractor with a notice of problems or concerns which require immediate attention. If necessary, a final inspection report will be issued at a subsequent date.

Birk Laute ADEC Title 3
Fish and Game Representative/Title Company Representative/Title

Rick Gustin
FWT3
June 2, 1990
Corinthian PWS

KN205B

Bay Isles Knight Is
South Arm
ASC#226-30-16860
June 2, 1990

Work began approximately 0700 on the beach east of the stream channel. Ed Hoch Veco 1's crew was on the job. Scattered tar patties with some OR(modtoheavy) beneath were removed. When I arrived by boat at 0935 the crew was working the UITZ on the west side of the stream. I walked the stream with a bucket and shovel and removed some remaining tar patties and scattered amounts of OR gravel. The work on the west bank UITZ near the grass was nearly complete, and was satisfactory. From the time I arrived on the site at approximately 0930 until I left at 1300 there was no Coast Guard rep, ADEC rep, or Exxon rep on site. This was also the case the day before when I arrived on the KN201 site in west arm. After chasing about for an hour or so I finally tracked them down. They had been on the Corinthian. Approximately one super sack of oiled gravel was removed from the stream site. The job there was acceptable and I have no further suggestions or criticisms.

ACE 7378929

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 5/29/89

SHORELINE SEGMENT KN-205

LOCATION: (see enclosed map) Knight Island-Bay of Isles

South Arm

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 5/22/89

Recommended Cleanup Activity(ies):

- Vacuum or scoop up pooled and free oil.
- Manually collect oiled algae and oiled grass.
- Manually collect and remove oiled sediment patches.
- Dried oil band on west shoreline may not be recoverable/removable.

Priorities Considerations:

Class 1

Ecological Constraints (from site survey): All craft stay 50 yards away from orange buoys in southern part of segment marking suspended live salmon boxes. Manual removal of oiled gravel, grasses and debris in salmon stream floodplain at head of bay must take place before the stream swells in summer. * Restrict number of people and access in stream areas and adjacent grassy areas; cut oiled grasses by hand. Three eagle nests are identified in the area of the bay. Adult seals are present in area, but no pups seen. Alert security that a young male, black bear was frequenting the area in late May.

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.

** Removal of gravel from stream channel requires a permit from DNR*

Douglas R. Reyer

State Historic Preservation Officer *

Date: 5/29/89

EXXON: _____

Date: _____

FOSC: _____

Date: _____

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

SHORELINE OIL EVALUATION

Date: 5/22/89 Time: 2100-2230

Observer: C. Dillon

Surveyed From: Foot/Boat/Helio/Plane

Weather: Sun/Cloud/Rain/Snow/F

LOCATION

LOCATION KNIGHT ISLAND

SEGMENT NUMBER KN-205

LENGTH OF SHORELINE SEGMENT: 3600 m

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

SHORELINE:

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

Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B 10 % / C 45 % / P 45 % / G ___ % / S ___ % / M ___ % / R ___ %

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

OIL

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

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

Continuous: Y/N % of Segment 10 Width of Band: 1 m

Sporadic: Y/N % of Segment 5

Est. Oil Thickness where > 1cm: 24 cm Est. Oil Penetration: <2 cm

Pooled Oil: 5 % "Free" Oil: <5 % Coated: H 10 % / M 5 % / L 75 %

Fresh ^{pools/free/heavy coating} 25 % Mousse ___ % Tar Formation: 75 % (bake. dry)

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

Comments:

See diagram for details. Eastern shoreline of South Arm is unoiled.

SHORELINE OIL EVALUATION

Date: 5/22/89 Time: 2100-2230

Observer: C. Dillon

Surveyed From: Foot/Boat/Helio/Plane

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION KNIGHT ISLAND SEGMENT NUMBER KN-205

LENGTH OF SHORELINE SEGMENT: 3600 m

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

SHORELINE:

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

Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B 10 % / C 45 % / P 45 % / G % / S % / M % / R %

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

OIL

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

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

Continuous: Y/N % of Segment 10 Width of Band: 1 m

Sporadic: Y/N % of Segment 5

Est. Oil Thickness where > 1cm: 24 cm Est. Oil Penetration: <2 cm

Pooled Oil: 5 % "Free" Oil: <5 % Coated: H 10 % / M 5 % / L 75 %

Fresh ^{pools/free/heavy coating} 25 % Mousse % Tar Formation: 75 % (baked dry)

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

Comments:

See diagram for details. Eastern shoreline of South Arm is unoiled.

DOCUMENTATION:

KN - 705

(Map) Aerial photo marking segment boundaries

Attached

VTR:

Y/N

Tape Number(s)

Photography:

Y/N

Roll Number(s)

Sample Numbers Collected:

None

ACE 7378933

2100 Segment KN-205 Total length 3600 m (30)

1. Steep boulder slopes with several low + high sloping beaches of B/C/P sediments
2. Boulder slopes and vert/hang rock faces have a 1m wide light, sporadic band.
3. Beaches have a 1-3 m wide band of light to moderately coated old and dried (sun baked) oil. <5% free oil/no pools 1-2 cm deep, <2 cm penetration.
4. Just below the UITZ oil band is a strand line of lightly mounded algae.
20% B / 30% C / 50% P
5. Middle ITZ is uncoiled. 20% C / 80% P
6. Lower ITZ has sporadic patches of light to moderately coated sediments.
No pools, no free oil, no penetration
20% C / 80% P
7. WX: ptly cloudy
Survey: foot
Access: boat / w / 114 plane / large
Wave Exp: low

ECOLOGICAL EVALUATION

LOCATION: KNIGHT ISLAND SITE: KN-205 OBSERVER: MEYER
 LOCATION PREFIX: KN SEG. NO.: 205 LENGTH: 3600 (M)
 DATE: 05/22/89 TIME (HHMM): 2100 TIDE HT.: _____ (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: Fisheries consultants in area smolting 1000 pink salmon/day at stream at head of bay. Reported young male black bear frequenting area. 3 Eagle Nests in Cove area.

CLEANUP PRECAUTIONS: Thick mosses by both streams must be removed manually before streams swell in summer. Only manual removal of oil in grassy areas/soil.

MAMMALS: Otters _____ Harbor Seals 5 Sea Lions _____ Whales _____
 Other _____

BIRDS: Marbled Murrelets - 6; Black-legged Kittiwakes - 17; Arctic Terns - 3; Eagle - 1

GENERAL OBSERVATIONS: Oil Sheen on water. Salmon stream at head of bay. Lots of mossed debris that must be manually removed and kept out of Salmon stream area.

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 5/24/89 Location Knight Island Site _____

Location Prefix KN Segment # KN-205 Length 3600
1200m

Survey Method:

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

Ground ✓ _____ (G - indicate on map)

Known cultural resources (AHRS #) None Data Source None

Oil conditions/beach visibility mostly light + sporadic except one headland which was heavy
Width of beach zone surveyed 0-20m Tree fringe surveyed 10

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 Beach at the head of the bay is flat + smooth. The remainder of the segment is steep wall face + boulder fields

Fresh Water Sources One major salmon stream

Sea Exposure protected

Access/Safety beach is good; the rest is poor

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

The potential of the beach is 3 the rest is 1.

Monitoring during cleanup needed yes/no no Collection yes/no

Photos: Color Roll # _____ Frames _____

B/W Roll # _____ Frames _____

Observer(s) C. Wilson

Time survey started 2100 Time survey ended 2230

Cultural resource considerations/restraints:

If heretofore undiscovered cultural resources are uncovered during cleanup contact Egon archaeologist, C. Mobley, immediately.

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 5/22/89 SHORELINE SEGMENT KN-265

LOCATION: (see enclosed map) KNIGHT ISLAND, BAY OF ISLES, SOUTH ARM

ADEC NO. _____ SHORELINE ASSESSMENT DATE: _____

Recommended Cleanup Activity(ies):

1. Vacuum or scoop up pooled and free oil.
2. Manually collect oiled algae and oiled grass.
3. Manually collect and remove oiled sediment patches.
4. Dried oil band on West shoreline is not recoverable/removable.

Priorities Considerations:

CLASS 1

Ecological Constraints (from site survey):

Manual removal of oiled gravel, grasses and debris in salmon stream floodplain at head of bay must take place before the stream swells in summer. Restrict number of people and access in stream areas and adjacent grassy areas; cut oiled grasses by hand. Three eagle nests are identified in the area of the bay. Adult seals are present in area but no pups seen. Alert security that a young male black bear was frequenting the area in late May.

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: _____

EXXON: _____

Date: _____

FOSC: _____

Date: _____

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

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 5/29/89

SHORELINE SEGMENT KN-205

LOCATION: (see enclosed map) Knight Island-Bay of Isles
South Arm

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 5/22/89

Recommended Cleanup Activity(ies):

- Vacuum or scoop up pooled and free oil.
- Manually collect oiled algae and oiled grass.
- Manually collect and remove oiled sediment patches.
- Dried oil band on west shoreline may not be recoverable/removable.

Priorities Considerations:

Class 1

Ecological Constraints (from site survey): All craft stay 50 yards away from orange buoys in southern part of segment marking suspended live salmon boxes. Manual removal of oiled gravel, grasses and debris in salmon stream floodplain at head of bay must take place before the stream swells in summer. * Restrict number of people and access in stream areas and adjacent grassy areas; cut oiled grasses by hand. Three eagle nests are identified in the area of the bay. Adult seals are present in area, but no pups seen. Alert security that a young male, black bear was frequenting the area in late May.

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.

** Removal of gravel from stream
via 185 a permit*

Douglas R. Reger
State Historic Preservation Officer *

Date: 5/29/89

EXXON: _____

Date: _____

FOSC: _____

Date: _____

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

SHORELINE OIL EVALUATION

Date: 5/22/89 Time: 2100-2230

Observer: C. Gillon

Surveyed From: Foot/Boat/Helio/Plane

Weather: Sun/Cloud/Rain/Snow/Fo

LOCATION

LOCATION KNIGHT ISLAND SEGMENT NUMBER KN-205

LENGTH OF SHORELINE SEGMENT: 3600 m

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

SHORELINE:

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

Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B 10 % / C 45 % / P 45 % / G % / S % / M % / R %

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

OIL

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

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

Continuous: Y/N % of Segment 10 Width of Band: 1 m

Sporadic: Y/N % of Segment 5

Est. Oil Thickness where > 1cm: 24 cm Est. Oil Penetration: <2 cm

Pooled Oil: 5 % "Free" Oil: <5 % Coated: H 10 % / M 5 % / L 75 %

Fresh ^{pools/free/heavy coating} 25 % Mousse % Tar Formation: 75 % (baked dry)

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

Comments:

See diagram for details. Eastern shoreline of South Arm is unoiled.

DOCUMENTATION: KN 705

Map/Aerial photo marking segment boundaries Attached

VTR: Y/N Tape Number(s) _____

Photography: Y/N Roll Number(s) _____

Sample Numbers Collected: None

2100 Segment KN-205 Total length 3600 m (30)

1. Steep boulder slopes with several low + high sloping beaches of B/C/P sediments
2. Boulder slopes and vert/hang rock faces have a 1m wide light, sporadic band.
3. Beaches have a 1-3 m wide band of light to moderately coated old and dried (sun baked) oil. <5% free oil/no pools 1-2 cm deep, <2 cm penetration.
4. Just below the UITZ oil band is a strand line of lightly moussed algae.
20% B / 30% C / 50% P
5. Middle ITZ is uncoiled. 20% C / 80% P
6. Lower ITZ has sporadic patches of light to moderately coated sediments.
No pools, no free oil, no penetration
20% C / 80% P
7. WX: ptly cloudy
Survey: foot
Access: boat / jet / 114 plane / large
Wave Exp: low

31

↑
N

1m wide light baked band
Steep boulder slope

82015029

45-2102

but you
pow-tying
747

12/26/2014

סיון תש"ב

34 cm deep
black pool
2 m + 5 m

Large stream
↓
Pink Salmon Smolt
EMIGRATING
5/22/89

100 m

100% Clear

clean

clean

Er/da

Segment KN-205
Head of South Arm
5/22/89 0100-1350

ACE 7378970

ACE 7378969

ECOLOGICAL EVALUATION

LOCATION: KNIGHT ISLAND SITE: KN-205 OBSERVER: MEYER
LOCATION PREFIX: KN SEG. NO.: 205 LENGTH: 3600 (M)
DATE: 05/22/89 TIME (HHMM): 2100 TIDE HT.: _____ (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: Fisheries consultants in area smelting 1000 pink salmon/day at stream at head of bay. Reported young male black bear frequenting area. 3 Eagle Nests in Cove area.

CLEANUP PRECAUTIONS: Thick moss by both streams must be removed manually before streams swell in summer. Only manual removal of oil in grassy areas/soil.

MAMMALS: Otters _____ Harbor Seals 5 Sea Lions _____ Whales _____
Other _____

BIRDS: Marbled Murrelets - 6; Black-legged Kittiwakes - 17; Arctic Terns - 3; Eagle - 1

GENERAL OBSERVATIONS: Oil Sheen on water. Salmon stream at head of bay. Lots of mossed debris that must be manually removed and kept out of Salmon stream area.

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 5/24/89 Location Knights Island Site _____

Location Prefix KN Segment # KN-205 Length 3600
1200m

Survey Method:

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

Ground ✓ (G - indicate on map)

Known cultural resources (AHRS #) None Data Source None

Oil conditions/beach visibility mostly light + sporadic except one headland which was heavy

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

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 Beach at the head of the bay is flat + smooth. The remainder of the segment is steep wall face + boulder fields.

Fresh Water Sources One major salmon stream

Sea Exposure protected

Access/Safety beach is good; the rest is poor

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

The potential of the beach is 3 the rest is 1.

Monitoring during cleanup needed yes no Collection yes/no

Photos: Color Roll # _____ Frames _____

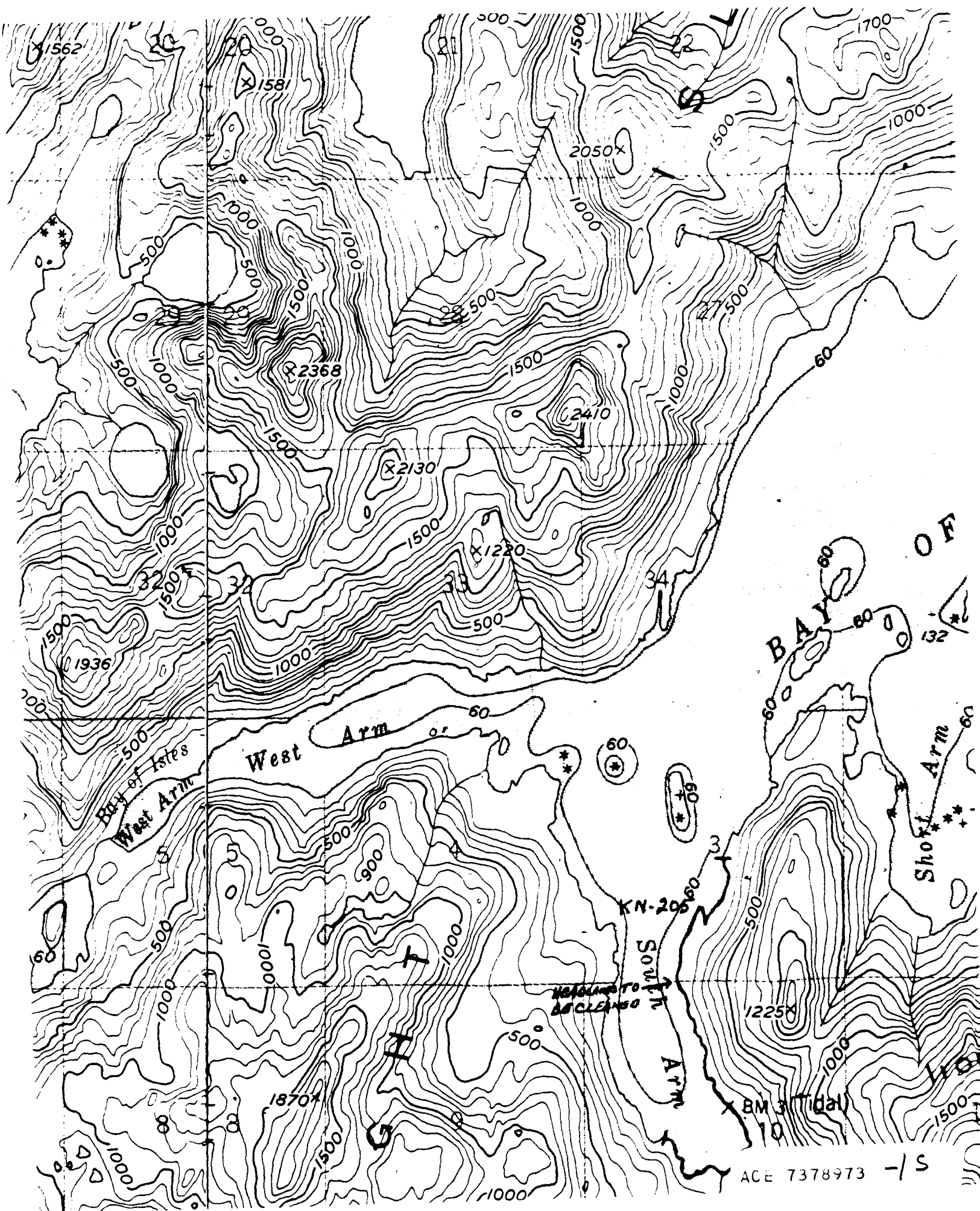
B/W Roll # _____ Frames _____

Observer(s) C. Wilson

Time survey started 2100 Time survey ended 2230

Cultural resource considerations/restraints:

If heretofore undiscovered cultural resources are uncovered during cleanup contact Egon archaeologist, C. Wobley, immediately.



Day. The 1st outlet comes through a steep-walled canyon with very light or no oil nearby. No stream work would be necessary.

Returned to Valdez at 6:30 p.m. Marilyn Signon

5/18/80

Left Valdez at 8:45 for Corexit test site, NW Ingot (Summary memo to be written). Observed test.

Marilyn Signon

5/20/80

Left Valdez at 6:45 for Corexit test site, NW Ingot, to observe control test. (summary memo to be prepared)

Marilyn Signon

W. Arm, 8:45 5/22/80

Left Valdez at 8:00 a.m. Stopped at Corexit test site.

Flew N. shore, Bay of Isles, oiling is spotty with a few birds, of heavy accumulation. Other Lake outlet area appeared oil-free.

Stopped at stream outlet in W. arm. At low tide, the outlet ~~to~~ channel flowed into a shallow basin (outlet was boomed). Oil in basin was mostly oily debris or mousse which could be picked up by hand.

Basin area was extremely productive with eelgrass, abundant *Mytilus*, mussels, hermit crabs, and a sea lemon (doris nudibranch).

It should stay boomed if cleaning occurs nearby (entrance is heavily oiled outside boom) and no work in stream should be necessary. Basin should be a Type A clean-up.

Stream stream. Oiling tapers off to W. of stream. Some hand-work (Type A) recommended to remove mousse patches melting in the sun.

Parnes & Moore group were sampling pink fry emergence. They had the stream

KN 205

not a fish stream. Whirls had good traction
times. On included some pooled mousse.

Observed a boom left on beach in this segment.

Also observed a boomed area on NE Ingot -
appeared to be a marsh.

Returned to Valdez @ 3:30 p.m.

Marilyn Sigmom

5/17/84

3:25 p.m. Leave Valdez via float plane for Herring
Bay. (picked out 2 anadromous fish streams:

#226-10-16920-Stream about mid-way down west side
is a pink stream. Oiling was heavy north of
the stream, but only black oil on tops of rocks near
stream, gravel appeared to be free of oil on
surface. A band $\approx 30'$ wide of uncoiled
sediments was between the oiled zone &
stream at slack tide (+39 at high low).

Some mousse blobs also, with green, healthy
Fucus downstage of the oil. This is an
area where no instream work is needed,
but some barrier (sorbent boom) to
oil migration at bottom of oiled zone into
uncoiled sediments or stream. This stream may have
weir info from Exxon
(#226-10-16910)

Stream at head of south arm is also
a pink stream. There are two different outlets
separated by a small rise. The western
stream has heavy oil accumulations adjacent
to the channel and within on rocks in
the channel, on vegetated islands in the
floodplain. Oil on the island is pooled to
several inches. Sheens ~~are~~ appeared on the
water surface with the agitation provided
by walking in the channel. This stream area
should definitely be treated, although gravel
within the channel appears oil-free. The
floodplain is $\approx 75'$ wide. Herring Bay had
mud cake surface sheens

ADFY6. port/com fish surve - spring 89

ASSESSMENT OF INTERTIDAL SPAWNING AREAS AFFECTED
BY THE PRINCE WILLIAM SOUND OIL SPILL

NAME: Knight I, Bay of Isle South arm

USGS MAP:

MAP #:

DATE:

TIME OF SURVEY:

LOW TIDE

COLLECTORS:

Seward B-2

ASC# 22630-16860

1240

TIME 1139

NO OIL
SHEEN
MOUSSE
BLACK OIL

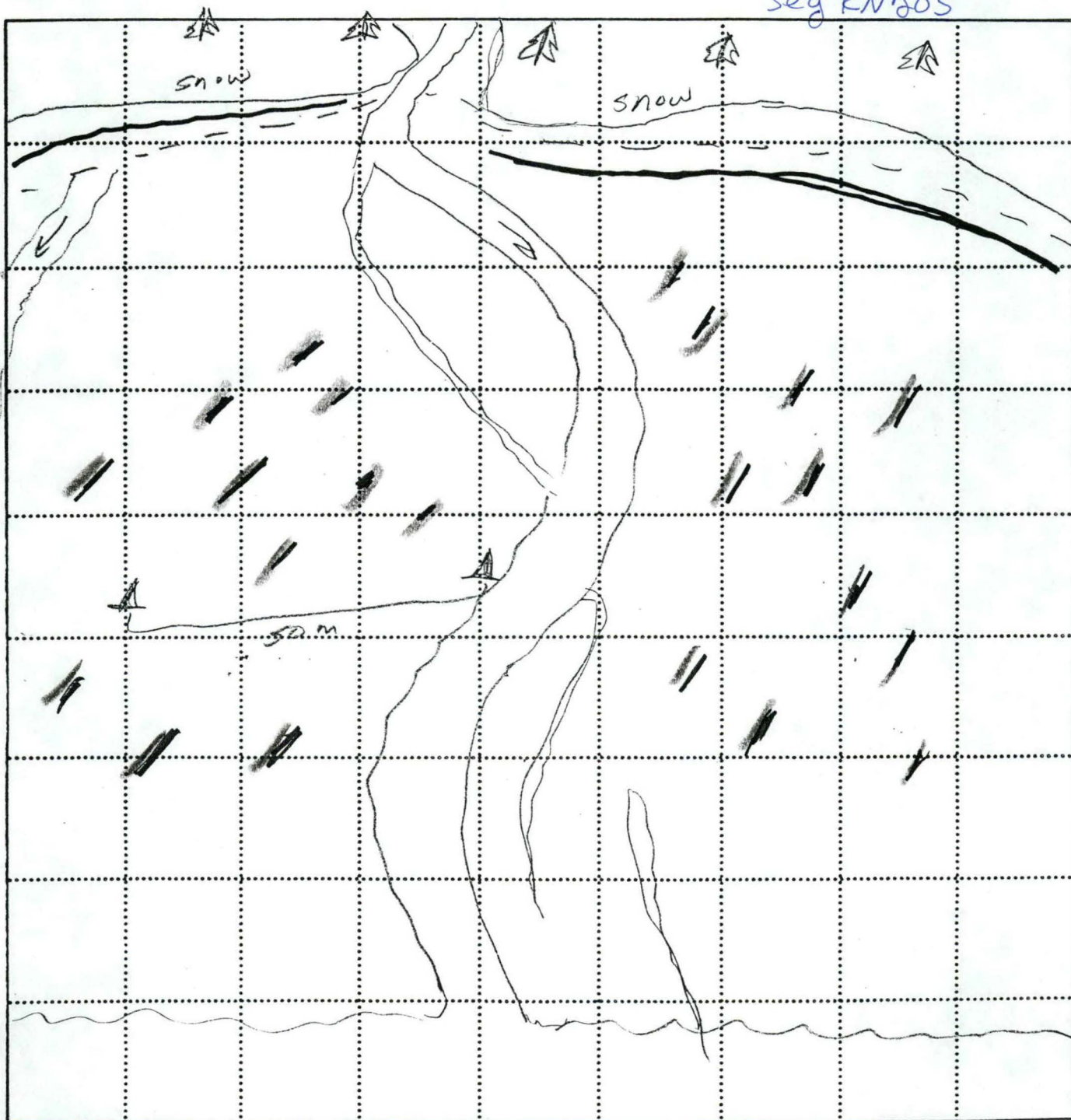
OIL TYPES PRESENT (1 2 3 4)

PHOTO #: 16+17 Roll 11/5

STREAM CATALOG #: 16860

SCALE: ONE GRID EQUALS

seg KN205



COLOR CODE: 1) NO OIL - BLANK 2) SHEEN - GREEN 3) MOUSSE - BROWN 4) BLACK OIL - BLACK

COMMENTS:

Ubiquitous sheen on Bay of Isles
Streaks of oil all throughout tidal area
3 meter band at snow line

ACE 7378976
-74/AC/RT/FF