

262-10-10041C

Triple Lakes Crk.

K-9-12

ACE 1949945

Segment 1 KO 912 - XX 500

Subdivision 262-10-10040

Date rec'd 13 JUNE

Date due 16 JUNE

Compared with Fall Beachwalk:

Oil in same locations:

Drastic change in degree of oiling:

Change in penetration:

yes ☐ no ☒
yes ☐ no ☐
yes ☐ no ☐
yes ☐ no ☐

Compared by ds waters

Assess treatment recommendations:

Do all SSAT team members agree with recommendation:

yes ☐ no ☐ treatment

State agency briefing:

ADEC TAG Representative Ronald W. Morris

Agree with Exxon recommendation:

yes ☐ no ☒ date 6-19-90

ADNR

Representative _____

date _____

Agree with Exxon recommendation:

yes ☐ no ☐

ADF&G

Representative K.R. Middleton

date 6/19/90

Agree with Exxon recommendation:

yes ☐ no ☒

Local Response

Representative _____

date _____

Agree with Exxon recommendation:

yes ☐ no ☐

Field Office

Kodiak

Homer

Seward

Representative Ronald W. Morris

date 6-19-90

Agree with Exxon recommendation:

yes ☐ no ☐

Contacted by _____

Please write any comments on segment cover sheet (next page).

STAG Review meeting

STAG Recommendation:

date 6-19-90

* Review submerged vegetative matter in
Lagoon
Not by ADF&G before treatment

Signature Ronald W. Morris

4/4/90

+151C/FF
ACE 1949946

RECEIVED
JUN 13 1990

DEPT. OF
ENVIRONMENTAL CONSERVATION

ANADROMOUS FISH STREAM ASSESSMENT

REGION: KODIAK

SEGMENT: ST/K09-12

SUBDIVISION: A

STREAM NO: 262-10-10040

Triple Lakes Creek

**THIS IS A TWO PART SURVEY DUE TO SNOW
COVER DURING THE FIRST SURVEY.**

ACE 1949947

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/K09-12 STREAM NO: 262-10-10040 DATE 6/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
5S Shorebird/waterfowl concentration (4/25 to 5/15)
See attached Ecological Constraint sheet for specific constraints and contracts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

See above.

ARCHAEOLOGICAL CONSTRAINTS:

Cultural resource survey in progress. Shoreline treatment cannot proceed until field data have been assessed and a formal archaeological constraint entered on the shoreline evaluation form.

SHPO SIGNATURE: DATE:

Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

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

COMMENTS: Recommended treatment is manual removal of mousse, patties and oiled debris as shown on attached sketch map.

TAG COMMENTS:

TAG APPROVAL DATE:

ADEC
EXXON
NOAA
USCG

FOSC: DATE:

ACE 1949948

FIELD SHORELINE COMMENT SHEET

Triple Lakes Creek

SEGMENT ST 1 K-912/XX500 SUBDIVISION: Stream # 262-10-10040 DATE 6/1/90

~~NORA~~
~~USCG~~
NAME

Tom Callahan

SIGNATURE

Tom Callahan

☐ NO TREATMENT RECOMMENDED

☒ TREATMENT SUGGESTED

COMMENTS

The storm berm has moved and partially blocked the stream mouth, causing the lagoon level to rise. This occurred after ~~mousse~~ mousse floated in and settled along an edge of the lagoon. As a result, mousse was found incorporated with flooded vegetation in 2-3 ft of water. This mousse/vegetation mixture is recoverable and is still able to ^{cause} ~~create~~ a sheen when disturbed. Suggest this be removed prior to salmon spawning in the area containing mousse.

ADEC

NAME

Terry Ellsworth

SIGNATURE

Terry Ellsworth

☐ NO TREATMENT RECOMMENDED

☒ TREATMENT SUGGESTED

COMMENTS

Oil occurs as cu-ct-st on cobbles, driftwood and trash and as a mousse-vegetation mat within the lagoon. The oiled cobbles and ms-veg. mat are presently submerged under 30 cm of water to 3m from the present shoreline. A thin film of silt covers the area making it difficult to see. Water level in the lagoon is not influenced by daily tidal action. Survey was not completed due to a bear on the nearby beach. Manual removal of ms-veg mat and driftwood and cleaning of heavy coat-cover on cobbles is recommended before fish spawn. If assessment is not completed before treatment, it should be completed before crew finishes in the area.

LAND MANAGER

N.A.

NAME

SIGNATURE

☐ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

COMMENTS

ACE 1949949

FIELD SHORELINE COMMENT SHEET

262-10-10040

SEGMENT ST 1K09-12 ++50E SUBDIVISION: Triple Lakes Creek DATE 6/2/90**ADFG**NAME JEFFREY P. BARNHART SIGNATURE Jeffrey P Barnhart☐ NO TREATMENT RECOMMENDED
COMMENTS☒ TREATMENT SUGGESTED

See ADF&G Annualssat Form for complete Data,ls.

Recommend^{manual} removal of oiled vegetative mats from under the water.
Oiled cobble / Pebble should be removed from the water cleaned and replaced.

The oiled cobble / pebble / vegetative mats are difficult to located as a thin film of silt covers them under the water.

ADFG Habitat Division personnel need to be present during cleanup to locate the problem areas.

A complete survey needs to be conducted as it is suspected additional oiled vegetative mats / oiled cobble are present in this low energy Lagoon.

Jeff Barnhart

SHORELINE OILING SUMMARY

REVISION NO 03-22-90

OG J. Springer USCG NOAA T. Callahan SEGMENT STI K-912/xx512
 BIO D. Lohse LAND REP J. Barnhart SUBDIVISION A / Stream 262-10-10040
~~EXXON~~ Pack Service R. Waver ADEC T. Ellsworth TIME 18:20 to 19:30
 TEAM NO.: 19 TIDE LEVEL: +2 to +4 DATE 06/01/1990
 EST. SUBDIVISION LENGTH: 900 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: S to N
 SURFACE SEDIMENTS: R 60 % B 10 % C 20 % P 60 % G 10 % S 10 % M 20 % V 20 %
 SLOPE: Lang 100 % Hang 100 % Vert 100 % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W 550 m M 8 m N 10 m VL 100 m NO 232 m

SURFACE OIL

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

PAVEMENT: H F S _____ sq. m by _____ cm

PATTIES / TARBALLS 50 BAGSNEAR SHORE SHEEN? NO BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs	X		
Vegetation	X		
Trash	X		
Debris			

DEBRIS COLLECTED
☐ YES ☒ NO

TYPE _____

#BAGS _____

Photographs:

Roll No. _____

Frames _____

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CM)	BELOW		OIL / FILM COLOR							PIT ZONE				A N A	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UO	UC	SB	DB	FW	GY	SL	DBR	TL	SU	U	M	L		

ACE 1949951

COMMENTS Oil is submerged in lagoon. "Tarballs" occur as black spatters clinging to cobbles. "Mousse" occurs in matts clumped together with vegetation.

Lagoon is in supratidal zone isolated from daily tidal action. Lower and mid-intertidal zones were not surveyed.

The survey of 5/12/90 did not cover supratidal zone or most of backshore. This survey completed the supratidal and backshore

Page 1 of _____ missed by last survey but did not get the northeast end due to. REVIEWED 12/27 DATE 5/2/90

SKETCH MAP

SEGMENT ST/ K-912/XX500

SUBDIVISION A

DATE 06/01/90

Stream 262-10-10040
Tripple Lakes Creek.

CHECKLIST

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

LEGEND

1 ▲

Pli - No Subsurface Oil

2 ▲

Pli - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

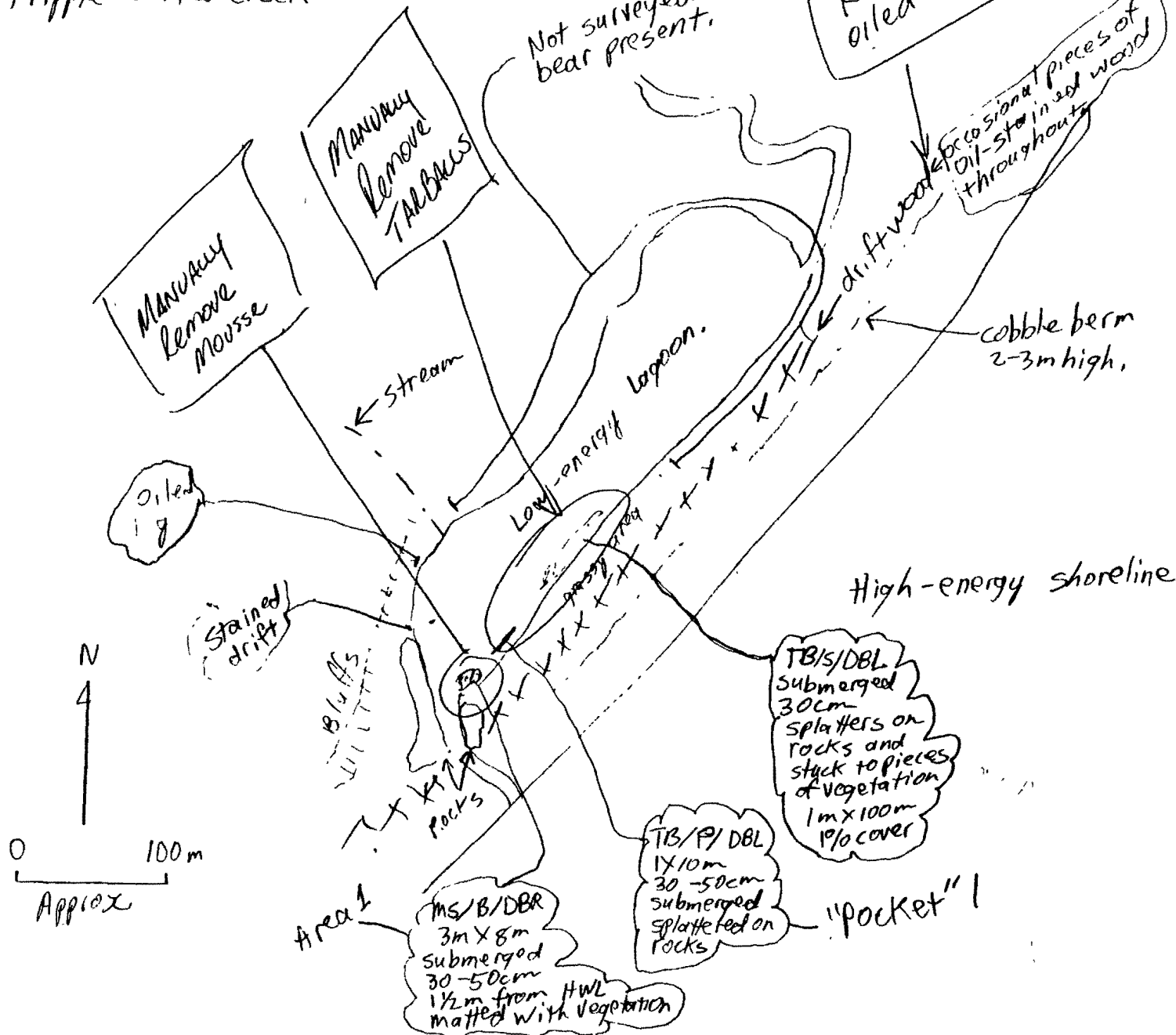
CT/S

Splashed Distribution

Oiled Vegetation

1 ●→

Photo location, direction, and number



ACE 1949952

Oil Character Length (m): AP PO CV CT ST MS 8 PT TB 110 FL NO 232 U 550

REVISION: 03/24/90

Due to bear a.T. 1. 7. 1990

(A5)

ADF&G MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS (SS) DS TS AVS SCHM MMS PTA 2 REGION: PWS KP,CI K,AP

METHOD: Aerial Ground Boat

3 DATE: 6/1/90 16 HIGH TIDE TIMES: 10:00 AM / 10:37 PM 21 TEAM RECORDER: JEFF BARNHART
DAVE Lohse, Jim Springer

4 START TIME: 1836 18 HIGH TIDE HTS: 13.1 1 15.5 22 OBSERVERS: Mike Goodwin, Tom Callahan
Terry Ellsworth Ray waver

5 STOP TIME: 1930 17 LOW TIDE TIMES: 4:00 AM / 4:06 PM 23 AGENCY: WCC, WCC, DNR, NOAA, DEC, NP.

6 SEGMENT #: 2x500 19 LOW TIDE HTS: 3.9 1 3.4 24 PHOTOS TAKEN: Y (N)

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

8 K-UNIT: K09-12 Ebb Slack Flood Slack 25 VIDEO TAKEN: Y (N) TAPES: _____

9 STAT AREA: 262-10-10046 20 USCG QUAD: Atagpak C-5 Starts: _____ Ends: _____

10 LAT: 58° 43' 24" 11 LONG: 153° 25' 26" 26 SAMPLES TAKEN Y (N) Number

12 SOURCE: Map Loran Anadcat 011 _____

13 LOCATION: Douglas Reef Area, AK Peninsula Sediment _____

14 DESCRIPTION: 2.5 miles N.W. of UABM "DARK" Biological _____

Water _____

EXTENT OF OIL

	SHORELINE				STREAM			
	L	W	N ^o	%	L	W	N ^o	%
27 SURFACE COVERAGE								
28 SURFACE THICKNESS								
29 PENETRATION								
30 OVERALL OIL IMPACT:	N	VL	<u>(L)</u>	M	H			
31 OIL TYPE:	Pooled	<u>House</u>	<u>Tar</u>	Asphalt	<u>Sticky</u>	<u>Stain</u>		
32 OILED DEBRIS?	<u>(Y)</u>	N						
33 SHORELINE TYPE:	Headland	<u>Low-lying Rocks</u>	Beach	Cove				
		<u>Lagoon</u>	Marsh					
34 WAVE EXPOSURE:	High	Moderate	<u>Low</u>					
35 SUBSTRATE TYPE:	Bedrock	Boulder	Cobble	<u>40</u>				
	Gravel	<u>30</u>	Sand	Mod/silt	<u>50</u>			

36 CATALOGED ANAD. FISH SREAN? (Y) N

37 CATALOG #: 262-10-10040

38 STREAM NAME: Triple Lakes Creek

39 OIL IN STREAM BED? (Y) N

40 OIL ON STREAM BANKS? (Y) N

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

42 OIL WITHIN 1 MILE OF STREAM? Y N

Where: _____

43 ANADROMOUS FISH PRESENT? Y (N)

44 ANADROMOUS FISH OBSERVATION

Species	Aerial	Ground

ACE 1949953

COMMENTS: Oil character: STTBCT/P on cobble along shore of lagoon and under 1 to 2 ft. of water. In addition Two areas, one 3mx8m (75% coverage) and a second 1mx10m (40% coverage) contain mats of vegetation and sticky Tar in 1-2 feet of water. Oiled debris: LV/P/MD. Survey incomplete due to presence of bear. NPS, RPO decision Recommend removal of oiled vegetative mats from under the water. Oiled cobble/pebble should be removed from the water cleaned and replaced. IT is suspected additional oiled vegetative mats are present in the lagoon. The remainder of the lagoon needs to be surveyed. The oiled cobble/pebble/vegetative mats are

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/K09-12 STREAM NO: 262-10-10040 DATE 5/2/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
5S Shorebird/waterfowl concentration (4/25 to 5/15)
See attached Ecological Constraint sheet for specific constraints and contracts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

See above.

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: _____ DATE: _____

Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

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

COMMENTS: _____

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____

EXXON _____

NOAA _____

USCG _____

FOSC: _____ DATE: _____

ACE 1949954

FIELD SHORELINE COMMENT SHEET

SEGMENT ST/ K-0912 SUBDIVISION: ^{ASC#} 262-10-10040 DATE 02 MAY 90

USCG
NAME Kenwin L. Dreher SIGNATURE CWO K. L. Dreher

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED
COMMENTS

NOTE: The most shore line of the larger lagoon was still snow covered. I suggest re-surveying this area after the snow melts back. The area I did survey (the east shore) had <1% stained driftwood and minimal very weathered/dry splinter on small submerged cobbles.

~~ADFG~~ → ADFG
NAME EDWARD W. WEISS SIGNATURE Edward W. Weiss

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED
COMMENTS

LAGOON SEGMENT IS LOW ENERGY AND RATTIES AND COVER ON COBBLES DO PRODUCE SLIGHT SHEEN WHEN RUBBED. THIS SHEEN DOES DISAPPEAR READILY IN WATER. STREAM NEEDS TO BE RESURVEYED FULLY WHEN SNOW COVER MELTS AND WATER LEVEL IS DOWN. BAND OF (PT, TB, CV, ST)/P IS CURRENTLY 12-24" BENEATH WATER'S SURFACE. CLEANUP WOULD ALSO HAVE TO WAIT UNTIL WATER LEVEL RECEDES. OIL IS ONLY PARTIALLY VISIBLE DUE TO WATER DEPTH AND S.L.T.

~~LAND MANAGER~~ → IVPS
NAME Carl Schoch SIGNATURE Carl Schoch

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED
COMMENTS

This lagoon should be resurveyed at a lower water level in order to determine the exact extent and degree of oiling. This document represents a partial survey only. Based on these findings the observed oil on debris and cobbles should be removed. This lagoon/estuary system is very protected and oil will persist for a long time unless removed. Oil can be removed by wiping with sorbent towels or removing with shovels. Cleanup should not begin until water recedes.

ACE 1949955

OG CAL LARSON USCG DREHER, CWE SEGMENT ST/ K-0912 XX 500
 BIO KEN CRITCHLOW LAND REP CARL SCHUCH STREAM 282-10-10045 (OF)
 EXXON DARL YONES ADFG EDWARDS TIME 10:4:35
 TEAM NO. 14 TIDE LEVEL +1.9 DATE 5/2/90
 EST. SUBDIVISION LENGTH: 200 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R % B % C 00 % P 10 % G 5 % S 5 % M % V
 SLOPE: Long 55 % Hang 45 % Vert % WAVE EXPOSURE: ☐ Low ☐ Med ☒ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 150 m NO 50 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	G	B	P	S	1	2	3	4	5	6	7	8	SU	U	M	U
ASPHALT PAVEMENT																
POOLED																
COVER																
COAT																
STAIN				✓			✓							✓		
MOUSSE																
PATTIES				✓			✓							✓		
TARBALLS				✓			✓							✓		
FILM																
NO OIL													✓		✓	✓

PAVEMENT H F S 0 sq. m by 0 CT

PATTIES/TARBALLS 2 BAGS

NEAR SHORE SHEEN? NO BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs		✓	
Vegetation	✓		
Trash			
Debris			

Did you collect DEBRIS
☐ YES ☒ NO

TYPE 0
 #BAGS 0

Photographs:

Roll No. _____

Frames _____

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (cm)	BELOW		OIL / FILM COLOR								PIT ZONE				A N A	SHEEN (Y/N)	Y	SURFACE-SUBSURFACE SEDIMENTS
		OF	OR	OL	OP	NO		US	UC	1	2	3	4	5	6	7	8	SU	U	M	U				

COMMENTS DUE TO SPRING RUN OFF BACK TIDAL LAGOON AREA WATER LEVEL WAS HIGHER, OIL/DROPS, SPATTER, PATTIES WERE UNDER WATER. OIL OBSERVED WAS HEAVILY WEATHERED. SOME OILED GRASSES WERE OBSERVED ALONG BANK OF BACK SHORE IN LAGOON. NO PITS DUG.

REVIEWED JW

DATE 5/4/90

OG CALLARSON

1" = 100'

SKETCH MAP

SEGMENT ST/ K-0912

STREAM 262-10-10090

DATE 5/2/90

CHECKLIST

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

LEGEND

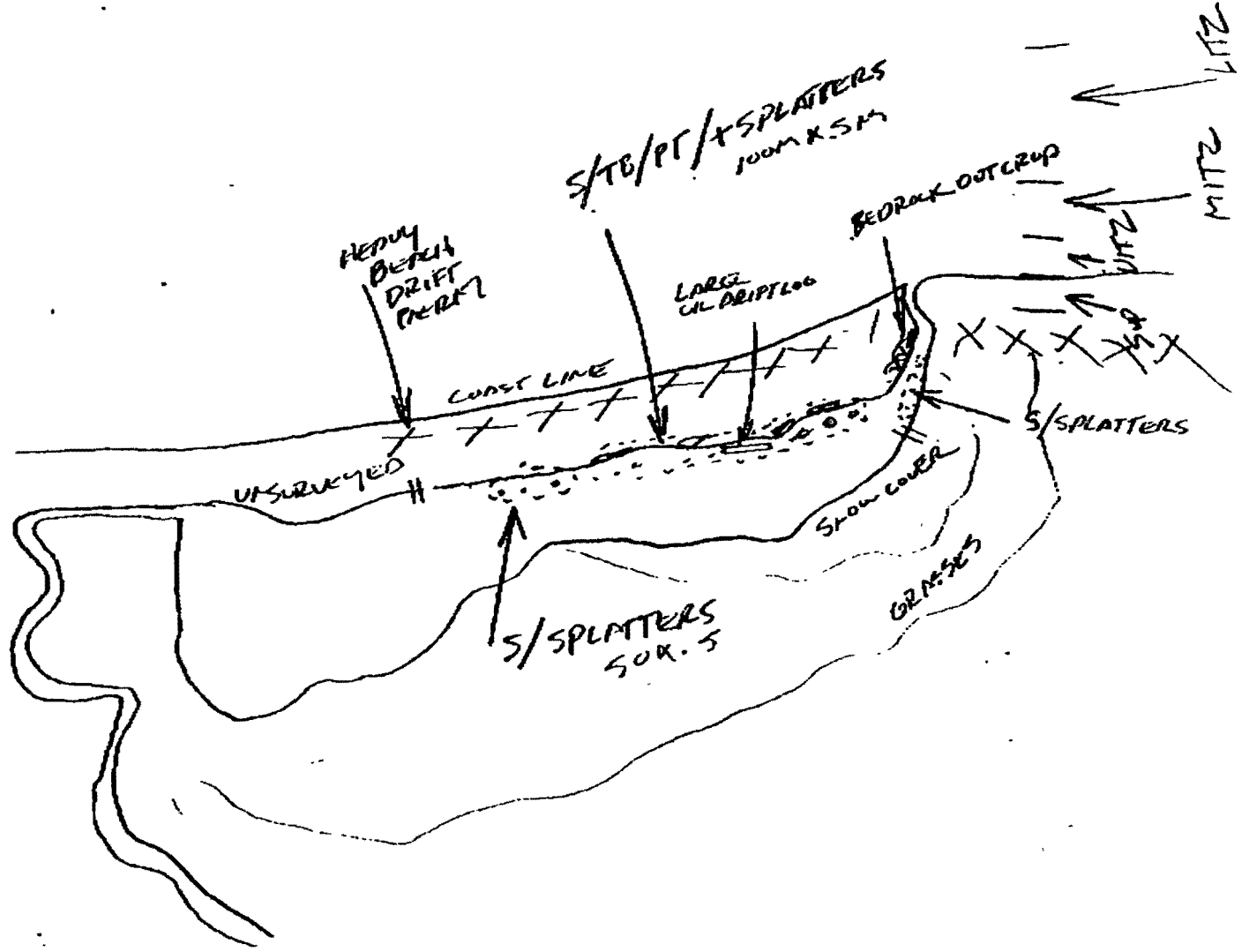
- 1 Δ
PII - No Subsurface Oil
- 2 Δ
PII - Subsurface Oil
- CT/C

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 1949957

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

REVISION 202409

ADFG MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS SS OS TS AVS SCHA HHS PTA

2 REGION: PWS KP, CI K, D

METHOD: Aerial Ground Boats

3 DATE: 5/2/90

16 HIGH TIDE TIMES: 1

21 TEAM RECORDER: E. WEISS

4 START TIME: 1840

17 HIGH TIDE HTS: 1

22 OBSERVERS: K. SCHOCK, C. CARSON, D. YOFIS, K. KRITCHLOW

5 STOP TIME: 1635

18 LOW TIDE TIMES: 1550

23 AGENCY: ADFG/EXXON/NAS/WWC

6 SEGMENT #: XX500

19 LOW TIDE HTS: 1

24 PHOTOS TAKEN: Y N

7 STATION #: _____

10 TIDE HT AT SURVEY: _____

Roll #: _____ Frames: _____

8 K-UNIT: K0912

End Stack Flood Stack

25 VIDEOS TAKEN: Y X TAPES: _____

9 STAT AREA: _____

20 USCG QUAD: AFOGNAK C-5

Start: _____ End: _____

10 LAT: _____

11 LONG: _____

26 SAMPLES TAKEN Y N Number

12 SOURCE: Map Loran

011 90EW0004K

13 LOCATION: DOUGLAS REEF AREA, AK PENINSULA

Sediment: _____

14 DESCRIPTION: ~1.5 NW OF VABM "DARK"

Biological: _____

Water: _____

EXTENT OF OIL

	SHORELINE				STREAM			
	L	W	HS	S	L	W	HS	S
27 SURFACE COVERAGE								
28 SURFACE THICKNESS								
29 PENETRATION								

30 OVERALL OIL IMPACT: N VL C N N

31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain

32 OILED DEBRIS: Y N

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

34 WAVE EXPOSURE: High Moderate Low

35 SUBSTRATE TYPE: Bedrock Boulder Cobble 25

Gravel 35 Sand Mud/silt 40

36 CATALOGED ANAD. FISH STREAM Y N

37 CATALOG #: 262-10-10040

38 STREAM NAME: TRIPLE LAKES CREEK

39 OIL IN STREAM BED? Y N

40 OIL ON STREAM BANKS? Y N

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

42 OIL WITHIN 1 MILE OF STREAM Y N

Where: _____

43 ANADROMOUS FISH PRESENT? Y N

44 ANADROMOUS FISH OBSERVATION

Species Aerial Ground

ACE 1949958

COMMENTS: BAND OF OIL CV, ST Y/P BEGINNING AT MOUTH
CONTINUING ON AROUND EAST BANK OF LAGOON. BAND
IS AT NORMAL LOW TIDAL AREA BUT DUE TO MELT OFF
IS 12-24" BELOW WATER'S SURFACE OF LAGOON AT LOW TIDE.
ONLY SURVEYED 1/3 OF LAGOON, 1/3 COVERED WITH SNOW, 1/3 UNSURVEYED
DUE TO TIME CONSTRAINTS. MOUSSE FAIRLY WEATHERED BUT STILL
LET'S OFF SHEEN WHEN RUBBED. SHEEN DISSIPATES READILY IN WATER.

FRAME(S)

DESCRIPTION

48 OIL DISTRIBUTION DIAGRAM

RECOMMEND: FULL SSAT / ANADSSAT SURVEY BE CONDUCTED AT LATER DATE, WHEN SNOW COVER MELTED AND WATER LEVEL DOWN. MANY PATCHES HARD TO SPOT DUE TO WATER DEPTH AND SILT COVER WOULD BE MORE VISIBLE WITH LOWER WATER.

ALSO RECOMMEND MANUAL PICKUP BASED ON 1/3 SURVEYED BUT NOT UNTIL WATER GOES DOWN AND IMPACT IS ACCESSABLE.

ALSO HAD TB:ST/S AND ST CT/L/SM ON BANK OF LAGOON ABOVE WATER LEVEL. *D Wein*

ACE 1949959

STATE OF ALASKA

DEPARTMENT OF FISH AND GAME

STEVE COWPER, GOVERNOR

Rapifax 349-1723

333 RASPBERRY ROAD
ANCHORAGE, ALASKA 99515-1520
PHONE: (907) 344-0841

RAPIFAX TRANSMITTAL SHEET

TO: Tom Kelly
Exxon - Anch.

FROM: Ed Weiss
AAFG Kodiak

DATE: 5-19-90
No. Pages: 3
(including this page)

MESSAGE:

DIS NOT MAKE DIAGRAM USED
ANASSAT OF DIAGRAM.

ACE 1949960

OG CAL LAKES

1 = 100

SKETCH MAP

SEGMENT ST/K-0912

STREAM 262-10-10040

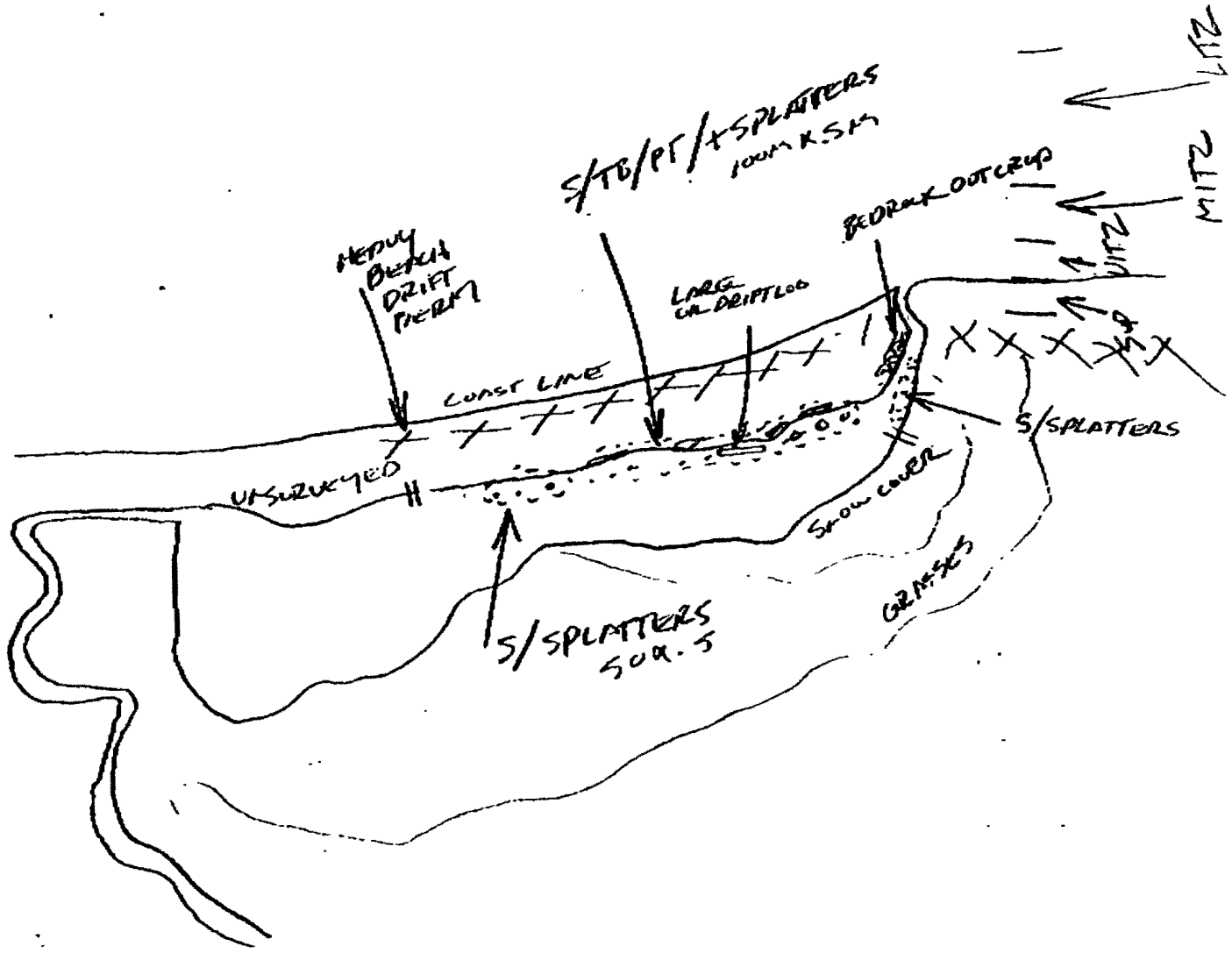
DATE 5/2/90

CHECKLIST

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

LEGEND

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



ACE 1949961

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

REVISION 2/2000

Seg ID: XX-500

Subdiv: 262-10-10040

Survey Date: 5/2/90

Comments by: Ken Critchlow

The beach at this stream site is very high energy characterized by well-rounded pebble and cobble. A bedrock outcrop guards the stream mouth which breaks through a high storm berm and large log jam. The beach was depauperate.

A very large lagoon was present behind the storm berm. The backshore was about 50 percent covered by snow and couldn't be surveyed. About half of the remaining shore was surveyed. Small amounts of tarballs and patties were observed in the grass... at the water's edge. Some mousse was present on submerged cobble in the lagoon. The extent of oiling of submerged rocks couldn't be determined.

Large numbers of water fowl were observed at the north end of the lagoon. The area is obviously used for feeding and possibly nesting.

KR Critchlow

A brown bear skull (no mandible or teeth) was found at the water's edge in the lagoon. It was left in place.

KRM

11/81

AFOGNAK (C-5) QUADRANGLE

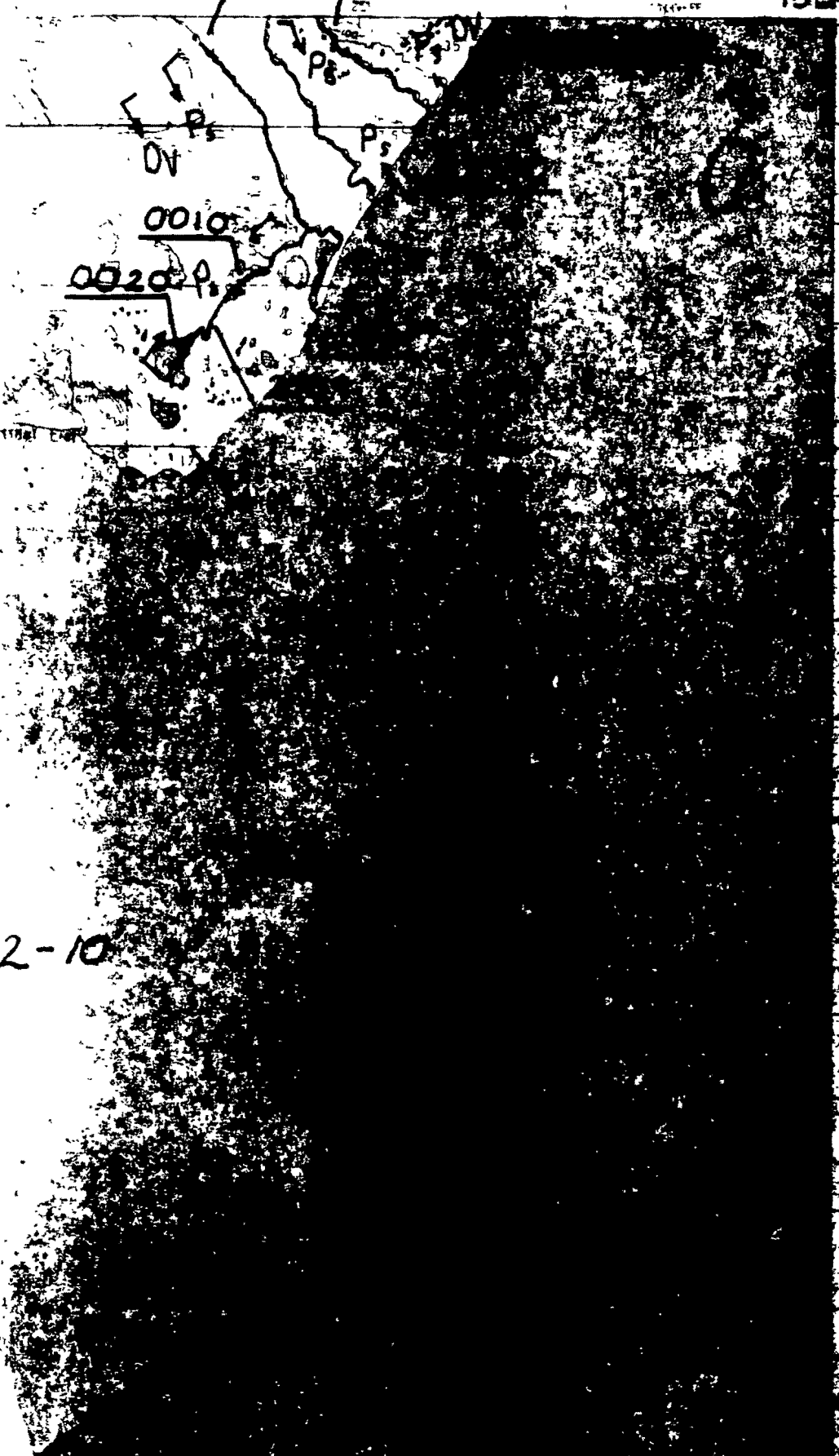
ALASKA

1:63,560 SERIES (TOPOGRAPHIC)

153°20'
58°45'

10040 FINAL

10060



2-10

ACE 1949963 -18

RECEIVED
JUN 13 1990

DEPT. OF
ENVIRONMENTAL CONSERVATION

ANADROMOUS FISH STREAM ASSESSMENT

REGION: KODIAK

SEGMENT: ST/K09-12

SUBDIVISION: A

STREAM NO: 262-10-10040

Triple Lakes Creek

THIS IS A TWO PART SURVEY DUE TO SNOW
COVER DURING THE FIRST SURVEY.

Concurrence

*Signed off in TAG per R. Morris
6-16-90*

ACE 1949964 +1/3

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/K09-12 STREAM NO: 262-10-10040 DATE 6/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
5S Shorebird/waterfowl concentration (4/25 to 5/15)
See attached Ecological Constraint sheet for specific constraints and contracts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

See above.

ARCHAEOLOGICAL CONSTRAINTS:

Cultural resource survey in progress. **Shoreline treatment cannot proceed** until field data have been assessed and a formal archaeological constraint entered on the shoreline evaluation form.

SHPO SIGNATURE: _____ DATE: _____

Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

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

COMMENTS: Recommended treatment is manual removal of mousse, patties and oiled debris as shown on attached sketch map.

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____

EXXON _____

NOAA _____

USCG _____

FOSC: _____ DATE: _____

ACE 1949965

FIELD SHORELINE COMMENT SHEET

Triple Lakes Creek

SEGMENT ST 1 K-912/XX500 SUBDIVISION: Stream # 262-10-10040 DATE 6/1/90

~~NORA~~
~~USCG~~

NAME Tom Callahan SIGNATURE Tom Callahan

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED

COMMENTS

The storm berm has moved and partially blocked the stream mouth, causing the lagoon level to rise. This occurred after ~~mousse~~ mousse floated in and settled along an edge of the lagoon. As a result, mousse was found incorporated with flooded vegetation in 2-3 ft of water. This mousse/vegetation mixture is recoverable and is still able to ~~create~~ ^{cause} a sheen when disturbed. Suggest this be removed prior to salmon spawning in the area containing mousse.

ADEC

NAME Terry Ellsworth SIGNATURE Terry Ellsworth

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED

COMMENTS

Oil occurs as cu-ct-st on cobbles, driftwood and trash and as a mousse-vegetation mat within the lagoon. The oiled cobbles and ms-veg. mat are presently submerged under 30 cm of water to 3M from the present shoreline. A thin Film of silt covers the area making it difficult to see. Water level in the lagoon is not influenced by daily tidal action. Survey was not completed due to a bear on the nearby beach. Manual removal of ms-veg mat and driftwood and cleaning of heavy coat-cover on cobbles is recommended before fish spawn. If assessment is not completed before treatment, it should be completed before crew finishes in the area.

LAND MANAGER

NAME N.A. SIGNATURE _____

☐ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED

COMMENTS

ACE 1949966

FIELD SHORELINE COMMENT SHEET

262-10-10040

SEGMENT ST 1K69-12 4500 SUBDIVISION: Triple Lakes Creek DATE 6/2/90**ADFG**NAME JEFFREY P. BARNHART SIGNATURE Jeffrey P Barnhart☐ NO TREATMENT RECOMMENDED
COMMENTS☒ TREATMENT SUGGESTED

See ADF&G Annualssat Form for complete Data. ls.

Recommend ^{manual} removal of oiled vegetative mats from under the water.
Oiled cobble / Pebble should be removed from the water cleaned and replaced.

The oiled cobble / pebble / vegetative mats are difficult to located as a thin film of silt covers them under the water.

ADFG Habitat Division personnel need to be present during cleanup to locate the problem areas.

A complete survey needs to be conducted as it is suspected additional oiled vegetative mats / oiled cobble are present in this low energy Lagoon.

Jeff Barnhart

ACE 1949967

SHORELINE OILING SUMMARY

REVISION NO 03/22/90

OG J. Springer USCG NOAA Callahan SEGMENT STI K-912/xx515
 BIO D. Lohse LAND REP J. Barnhart SUBDIVISION A / Stream 262-10-10045
 EXXON Back Service R. Waver ADEC T. Ellsworth TIME 18:20 to 19:30
 TEAM NO.: 19 TIDE LEVEL: +2 to +4 DATE 06/01/90
 EST. SUBDIVISION LENGTH: 900 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: S to N
 SURFACE SEDIMENTS: R 60 % B 10 % C 20 % P 10 % G 20 % S 10 % M 20 % V 20 %
 SLOPE: Lang 100 % Hang 0 % Vert 0 % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W 550 m M 8 m N 10 m VL 100 m NO 232 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR							IMPACTED ZONES			
	/C	/B	/P	/S	SOL BL	DEL RW	GY	SL DRR	TL	LBL	SU	U	M	U	
ASPHALT PAVEMENT										/					
POOLED															
COVER															
COAT															
STAIN															
MOUSSE		X							X		X				
PATTIES															
TARBALLS			✓	X		X	✓				X	✓			
FILM															
NO OIL												X			

PAVEMENT: H F S _____ sq. m by _____ cm

PATTIES / TARBALLS 50 BAGSNEAR SHORE SHEEN? (NO) BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs	X		
Vegetation	X		
Trash	X		
Debris			

DEBRIS COLLECTED
☐ YES ☒ NO

TYPE _____

#BAGS _____

Photographs:

Roll No. _____

Frames _____

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CM)	BELOW		OIL / FILM COLOR						PIT ZONE				A N A	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UO	UC	SEL BR	DEL RW	GY SL	DRB TL	LSR	SU	UI	MI	LI			
							.														
							.														
							.														
							.														
							.														
							.														
							.														

ACE 1949968

ACE 1949968

COMMENTS Oil is submerged in lagoon. "Tarballs" occur as black spatters clinging to cobbles. "Mousse" occurs in matts clumped together with vegetation.

Lagoon is in supratidal zone isolated from daily tidal action. Lower and mid-intertidal zones were not surveyed.

The survey of 5/2/90 did not cover supratidal zone or most of backshore. This survey completed the supratidal and backshore

Page 1 of _____ missed by last survey but did not get the northeast end due to low water. The water level will not recede further. REVIEWED 1307 DATE 5/2/90

SEGMENT ST/ K-912/XX500

SUBDIVISION A

DATE 06/01/90

CHECKLIST

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

LEGEND

1 Δ

Pit - No Subsurface Oil

2 Δ

Pit - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

Splashed Distribution

Oil Vegetation

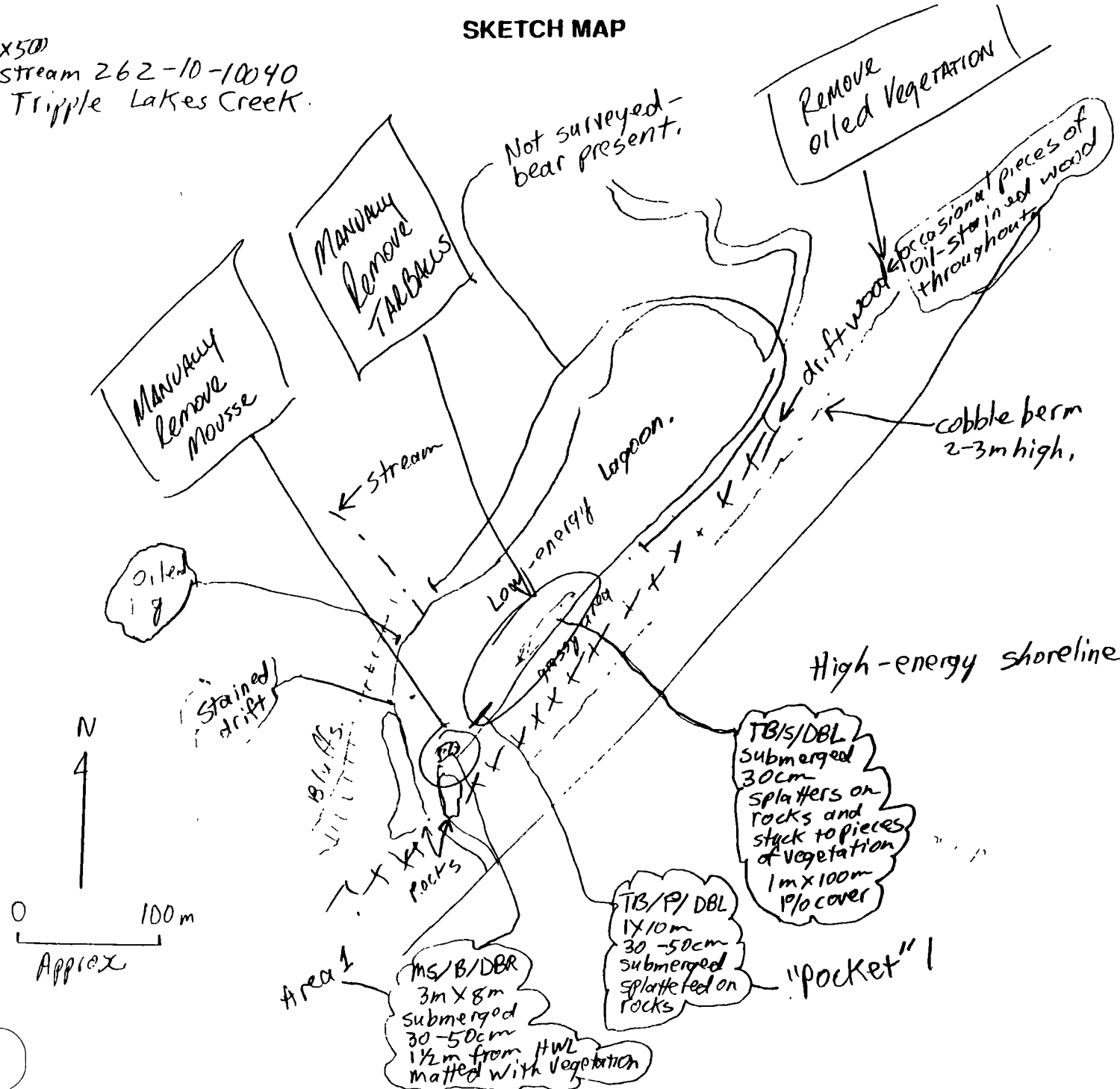
1 →

Photo location, direction, and number

ACE 1949969

SKETCH MAP

Stream 262-10-10040
Tripple Lakes Creek.



Oil Character Length (m): AP _____ PO _____ CV _____ CT _____ ST _____ MS 8 PT _____ TB 110 FL _____ NO 232 U 550

REVISION: 93/24/98

(A5)

ADF&G MULTI-ASSESSMENT DATA FORM

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

METHOD: Aerial Ground Boat

3 DATE: 6/1/90 16 HIGH TIDE TIMES: 10:00 AM / 10:37 PM 21 TEAM RECORDER: JEFF BARNHART
DAVE Lohse, Jim Springer

4 START TIME: 1836 18 HIGH TIDE HTS: 13.1 / 15.5 22 OBSERVERS: Mike Goodwin, Tom Callahan
Terry Ellsworth Ray waver

5 STOP TIME: 1930 17 LOW TIDE TIMES: 4:00 AM / 4:06 PM 23 AGENCY: WCC, WCC, DNR, NOAA, DEC, NP

6 SEGMENT #: xx520 19 LOW TIDE HTS: 3.9 / 3.4 24 PHOTOS TAKEN: Y (N)

7 STATION #: _____ 10 TIDE HT AT SURVEY: _____ Roll #: _____ Frame: _____

8 K-UNIT: K09-12 Ebb Slack Flood Slack 25 VIDEO TAKEN: Y (N) TAPE#: _____

9 STAT AREA: 262-10-10040 20 USCG QUAD: Alagnak C-5 Start: _____ Ends: _____

10 LAT: 58° 43' 24" 11 LONG: 153° 25' 26" 26 SAMPLES TAKEN Y (N) Number

12 SOURCE: Map Loran Anadkat 011 _____

13 LOCATION: Douglas Reef Area, AK Peninsula Sediment _____

14 DESCRIPTION: ~1.5 miles N.W. of LABIN "DARK" 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 40
Gravel 30 Sand _____ Mud/silt 30

36 CATALOGED ANAD. FISH STREAM? (Y) N

37 CATALOG #: 262-10-10040

38 STREAM NAME: Triple Lakes Creek

39 OIL IN STREAM BED? (Y) N

40 OIL ON STREAM BANKS? (Y) N

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

42 OIL WITHIN 1 MILE OF STREAM? Y N

Where: _____

43 ANADROMOUS FISH PRESENT? Y (N)

44 ANADROMOUS FISH OBSERVATION

Species	Aerial	Ground

ACE 1949970

COMMENTS: Oil character: ST TBCT/P on cobble along shore of lagoon and under 1 to 2 ft. of water. In addition two areas, one 3m x 8m (75% coverage) and a second 1m x 10m (40% coverage) contain mats of vegetation and sticky tar in 1-2 feet of water. Oiled debris: LV/P/MD. Survey incomplete due to presence of bear. NPS, RPD decision. Recommend removal of oiled vegetative mats from under the water. Oiled cobble/pebble should be removed from the water cleaned and replaced. IT is suspected additional oiled vegetative mats are present in the lagoon. The remainder of the lagoon needs to be surveyed. The oiled cobble/pebble/vegetative mats are

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/K09-12 STREAM NO: 262-10-10040 DATE 5/2/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
5S Shorebird/waterfowl concentration (4/25 to 5/15)
See attached Ecological Constraint sheet for specific constraints and contracts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

See above.

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: _____ DATE: _____

Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

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

COMMENTS: _____

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____

EXXON _____

NOAA _____

USCG _____

FOSC: _____ DATE: _____

ACE 1949971

FIELD SHORELINE COMMENT SHEET

SEGMENT ST 1 K-0912 SUBDIVISION: ^{ASC#} 262-10-10040 DATE 02 MAY 90

USCG

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

☒ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

COMMENTS

NOTE: The west shore line of the larger lagoon was still snow covered. I suggest re-surveying this area after the snow melts back. The area I did survey (the east shore) had <1% stained driftwood and minimal very weathered/dry splatter on small submerged cobbles.

~~ADEG~~ → ADFG

NAME EDWARD W. WEISS SIGNATURE Edward W. Weiss

☐ NO TREATMENT RECOMMENDED

☒ TREATMENT SUGGESTED

COMMENTS

LAGOON SEGMENT IS LOW ENERGY AND RATTIES AND COVER ON COBBLES DO PRODUCE SLIGHT SHEEN WHEN RUBBED. THIS SHEEN DOES DISAPPEAR READILY IN WATER. STREAM NEEDS TO BE RESURVEYED FULLY WHEN SNOW COVER MELTS AND WATER LEVEL IS DOWN. BAND OF (PT, TB, CV, ST)/P IS CURRENTLY 12-24" BENEATH WATER'S SURFACE. CLEANUP WOULD ALSO HAVE TO WAIT UNTIL WATER LEVEL RECEDES. OIL IS ONLY PARTIALLY VISIBLE DUE TO WATER DEPTH AND SILT.

~~LAND MANAGER~~ → NPS

NAME Carl Scheeh SIGNATURE Carl Scheeh

☐ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

COMMENTS

This lagoon should be resurveyed at a lower water level in order to determine the exact extent and degree of oiling. This document represents a partial survey only. Based on these findings the observed oil on debris and cobbles should be removed. This lagoon/estuary system is very protected and oil will persist for a long time unless removed. Oil can be removed by wiping with sorbent towels or removing with shovels. Cleanup should not begin until water recedes.

ACE 1949972

OG CAL LARSON USCG DREHER, C WE SEGMENT ST/ K-0912 XX 500
 BIO KEN CRITCHLOW LAND REP CARL SCHOCH STREAM 202-10-10040 (OF)
 EXXON DARRELL YOE ADFG EDWARDS TIME 3:40 10:4:35
 TEAM NO. 14 TIDE LEVEL +1.9 DATE 5/2 /90
 EST. SUBDIVISION LENGTH: 200 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R % B % C 80 % P 10 % G 5 % S 5 % M % V
 SLOPE: Long 55 % Hang 45 % Vert % WAVE EXPOSURE: ☐ Low ☐ Med ☒ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 150 m NO 50 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	C	N	P	R	%	1	2	3	4	5	6	7	SU	U	M	U
ASPHALT PAVEMENT																
POOLED																
COVER																
COAT																
STAIN																
MOUSSE																
PATTIES																
TARBALLS																
FILM																
NO OIL																

PAVEMENT H F S 0 sq. m by 0 CT

PATTIES / TARBALLS 2 BAGS

NEAR SHORE SHEEN? NO BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

Did you collect DEBRIS

☐ YES ☒ NO

TYPE 0

#BAGS 0

Photographs:

Roll No.

Frames

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL	BELOW		OIL / FILM COLOR								PIT ZONE				A N A	SHEEN (Y/N)	▼	SURFACE - SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UG	UC	10% W	20% W	30% W	40% W	50% W	60% W	70% W	80% W	90% W	SU	U	M				

COMMENTS DUG TO SPRING RUN OFF BACK TIDAL LAGOON AFTER WATER LEVEL WAS HIGHER, OIL/DROPS, SPLATTER, PATTIES WERE UNDER WATER. OIL OBSERVED WAS HEAVILY WENTERED. SOME OILED GRASSES WERE OBSERVED ALONG BANK OF BACK SHORE IN LAGOON. NO PITS DUG.

REVIEWED JW

DATE 5/4/90

OG CAL LARSON

1" = 100'

SKETCH MAP

SEGMENT ST/ K-0912

STREAM 262-10-10040

DATE 5, 2 90

CHECKLIST

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

LEGEND

1 Δ

PH - No Subsurface Oil

2 Δ

PH - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

Splashed Distribution

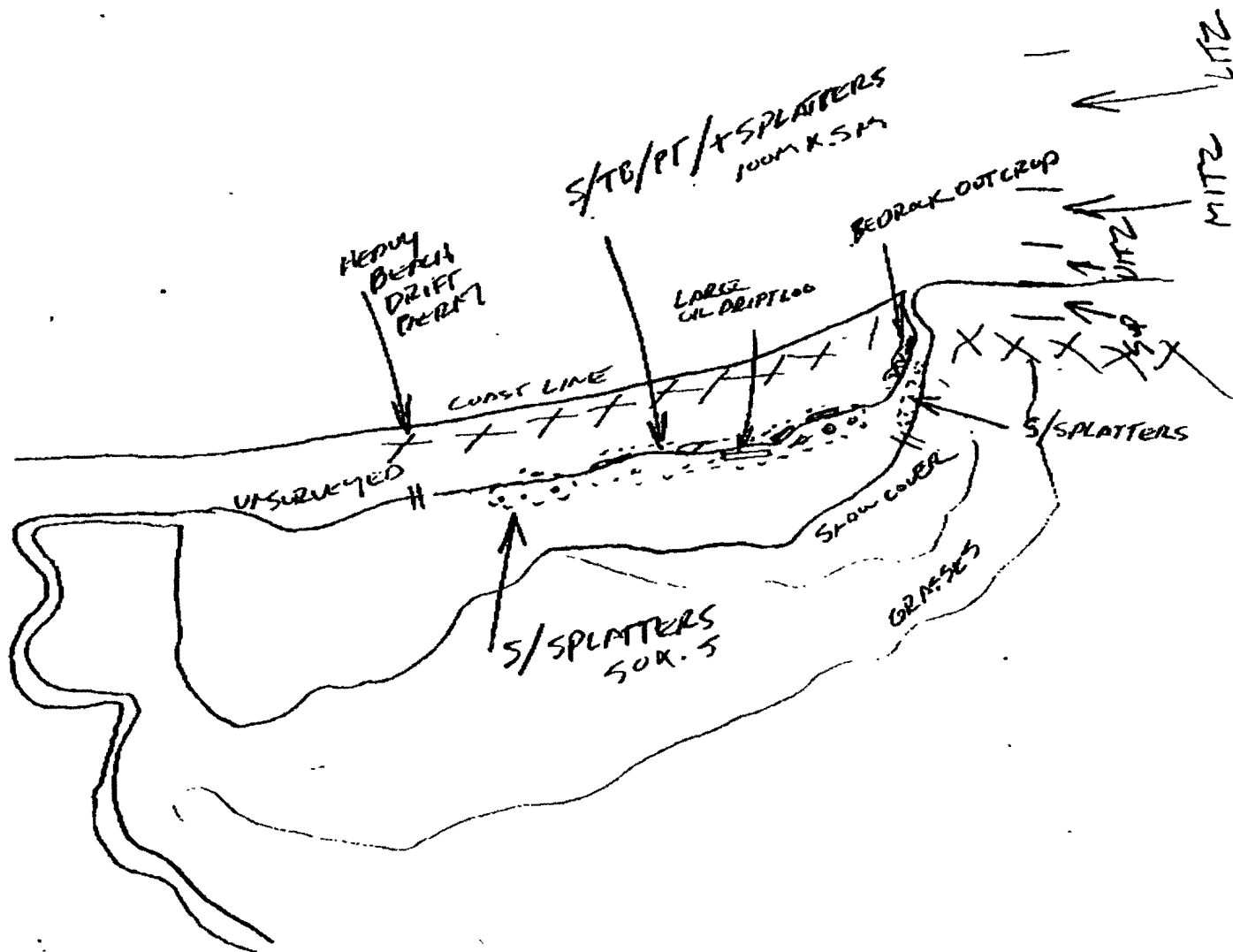
lll

Old Vegetation

1 ●

Photo location, direction,
and number

ACE 1949974



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

REVISION 20/24/00

ADFG MULTI-ASSESSMENT DATA FORM

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

METHOD: Aerial Ground Boat

3 DATE: 5/2/90 10 HIGH TIDE TIMES: 1 21 TEAM RECORDED: E. WEISS

4 START TIME: 1840 10 HIGH TIDE HTS: 1 22 OBSERVERS: K. SCHOCK, C. CARSON

5 STOP TIME: 1635 17 LOW TIDE TIMES: 1550 23 AGENCY: ADFG/EXXON/NAS/WWC

6 SEGMENT #: XX500 18 LOW TIDE HTS: 1 24 PHOTOS TAKEN: Y N

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

8 K-UNIT: K0912 20 USCG QUAD: AFOGNAR C-5 25 VIDEO TAKEN: Y X TAPE: _____

9 STAT AREA: _____ Starts: _____ Ends: _____

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

12 SOURCE: Map Loran 011 906W004K

13 LOCATION: DOUGLAS REEF AREA, AK PENINSULA

14 DESCRIPTION: ~1.5 NW OF VABM "DARK"

Sediment: _____

Biological: _____

Water: _____

EXTENT OF OIL

27 SURFACE COVERAGE

SHORELINE				STREAM			
L	V	HP	N	L	V	HP	N

28 SURFACE THICKNESS

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

29 PENETRATION

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

30 OVERALL OIL IMPACT: N VL C N N

31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain

32 OILED DEBRIS: Y N

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

34 WAVE EXPOSURE: High Moderate Low

35 SUBSTRATE TYPE: Bedrock _____ Boulder _____ Cobble 25

Gravel 35 Sand _____ Mud/silt 40

36 CATALOGED ANAD. FISH STREAM: Y N

37 CATALOG #: 262-10-10040

38 STREAM NAME: TRIPLE LAKES CREEK

39 OIL IN STREAM BED: Y N

40 OIL ON STREAM BANKS: Y N

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

42 OIL WITHIN 1 MILE OF STREAM: Y N

Where: _____

43 ANADROMOUS FISH PRESENT? Y N

44 ANADROMOUS FISH OBSERVATION

Species	Aerial	Ground

ACE 1949975

COMMENTS: BAND OFF TO CV ST Y/P BEGINNING AT MOUTH
CONTINUING ON AROUND EAST BANK OF LAGOON. BAND
IS AT NORMAL LOW TIDAL AREA BUT DUE TO MELT OFF
IS 12-24" BELOW WATER'S SURFACE OF LAGOON AT LOW TIDE.
ONLY SURVEYED 1/3 OF LAGOON. 1/3 COVERED WITH SNOW, 1/3 UNSURVEYED
DUE TO TIME CONSTRAINTS. MOUSSE FAIRLY WEATHERED BUT STILL
LETS OFF SHEEN WHEN RUBBED. SHEEN DISSIPATES READILY IN WATER.

FRAME(S)	DESCRIPTION

48 OIL DISTRIBUTION DIAGRAM

RECOMMEND: FULL SSAT / ANADSSAT SURVEY BE CONDUCTED AT LATER DATE, WHEN SNOW COVER MELTED AND WATER LEVEL DOWN. MANY PATCHES HARD TO SPOT DUE TO WATER DEPTH AND SILT COVER WOULD BE MORE VISIBLE WITH LOWER WATER.

ALSO RECOMMEND MANUAL PICKUP BASED ON 1/3 SURVEYED BUT NOT UNTIL WATER GOES DOWN AND IMPACT IS ACCESSABLE.

ALSO HAD TB:ST/S AND ST CT/L/SM ON BANK OF LAGOON ABOVE WATER LEVEL. *D Wein*

STATE OF ALASKA

DEPARTMENT OF FISH AND GAME

STEVE COWPER, GOVERNOR

Rapifax 349-1723

333 RASPBERRY ROAD
ANCHORAGE, ALASKA 99513-1520
PHONE: (907) 344-0841

RAPIFAX TRANSMITTAL SHEET

TO: Tom Kelly
Exxon - Anch.

DATE: 5-18-90

No. Pages: 3
(including this page)

FROM: Ed Weiss
AAFG Kodiak

MESSAGE:

DID NOT MAKE DIAGRAM USED
ANASSAT OF DIAGRAM.

ACE 1949977

OG CAL LARSON

1 = 100'

SKETCH MAP

SEGMENT ST/K-0912

STREAM 262-10-10090

DATE 5, 2, 90

CHECKLIST

- ☐ N Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Entry
- ☐ On Off
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HWA/LWA
- ☐ SSL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ Pit Location(s)
- ☐ Photo Location(s)

LEGEND

1 Δ
Pit - No Subsurface Oil

2 Δ
Pit - Subsurface Oil

CT/C
Continuous Distribution

CT/B
Broken Distribution

CT/P
Patchy Distribution

CT/S
Splashed Distribution

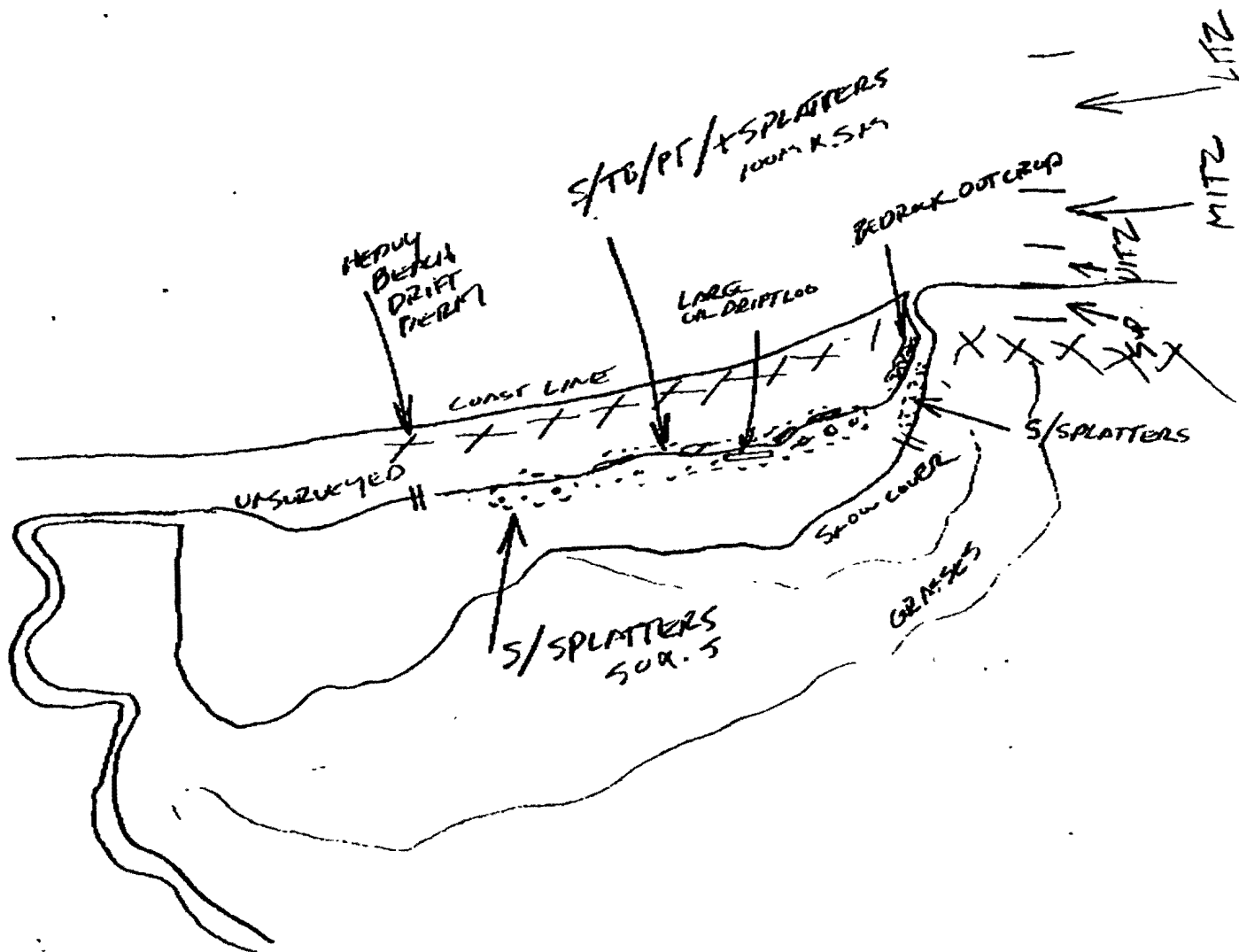
eee
Oiled Vegetation

1 →
Photo location, direction,
and number

ACE 1949978

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

REVISION 20/2/90



Seg ID: XX-500

Subdiv: 262-10-10040

Survey Date: 5/2/90

Comments by: Ken Critchlow

The beach at this stream site is very high energy characterized by well-rounded pebble and cobble. A bedrock outcrop guards the stream mouth which breaks through a high storm berm and large log jam. The beach was depauperate.

A very large lagoon was present behind the storm berm. The backshore was about 50 percent covered by snow and couldn't be surveyed. About half of the remaining shore was surveyed. Small amounts of tarballs and patties were observed in the grass at the water's edge. Some mousse was present on submerged cobble in the lagoon. The extent of piling of submerged rocks couldn't be determined.

Large numbers of water fowl were observed at the north end of the lagoon. The area is obviously used for feeding and possibly nesting.

KR Critchlow

A brown bear skull (no mandible or teeth) was found at the water's edge in the lagoon. It was left in place.

AFOGNAK (C-5) QUADRANGLE

ALASKA

63 580 SERIES TOPOGRAPHIC

741-05

153° 20'
58° 45'

10040 FINAL

10060



2-10

ACE 1949980-7/5/C

~~TAG~~ 8:00 am
Rm 508
Calais II

RECEIVED
MAY 19 1990

DEPT. OF
ENVIRONMENTAL CONSERVATION

ANADROMOUS FISH STREAM ASSESSMENT

REGION: KODIAK

SEGMENT: K09-12-XX-500

SUBDIVISION: A

STREAM NO: 262-10-10040

*designates no work other than anal. stn
in segment*

AK. PENINSULA

Triple Lakes Creek
C. Douglas area

DISAGREE!

*This area not adequately surveyed due
to snow/ice cover. Needs to be re-
surveyed. Bands 1 PT, TB, CV, ST/P
beneath 12"-24" water at survey, 5/2/90.
Showering from rutting along cobble.*

5/24/90 - TAG - arrange for KRM
resurvey next 2-3 days.
SAT crew will contact
Joff so he can go on survey.

ACE 1949981+ / S

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/K09-12-XX-500 STREAM NO: 262-10-10040 DATE 5/2/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
5S Shorebird/waterfowl concentration (4/25 to 5/15)
See attached Ecological Constraint sheet for specific constraints and contracts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

See above.

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: _____ DATE: _____

Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

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

COMMENTS: _____

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____
EXXON _____
NOAA _____
USCG _____

FOSC: _____ DATE: _____

ACE 1949982

FIELD SHORELINE COMMENT SHEET

SEGMENT ST/ K-0912 SUBDIVISION: ^{ASC#} 262-10-10040 DATE 02 MAY 90

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

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED
COMMENTS

NOTE: The west shore line of the larger lagoon was still snow covered. I suggest re-surveying this area after the snow melts back. The area I did survey (the east shore) had <1% stained driftwood and minimal very weathered/dry splatter on small submerged cobbles.

~~ADEC~~ → ADFG
NAME EDWARD W. WEISS SIGNATURE Edward W. Weiss

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED
COMMENTS

LAGOON SEGMENT IS LOW ENERGY AND ATTRIES AND COVER ON COBBLES DO PRODUCE SLIGHT GREEN WHEN RUBBED. THIS GREEN DOES DISAPPEAR READILY IN WATER. STREAM NEEDS TO BE RESURVEYED FULLY WHEN SNOW COVER MELTS AND WATER LEVEL IS DOWN. BAND OF (PT, TB, CV, ST)/P IS CURRENTLY 12-24" BENEATH WATER'S SURFACE. CLEANUP WOULD ALSO HAVE TO WAIT UNTIL WATER LEVEL RECEDES. OIL IS ONLY PARTIALLY VISIBLE DUE TO WATER DEPTH AND SILT.

~~LAND MANAGER~~ → NPS
NAME Carl Scheeh SIGNATURE Carl Scheeh

~~☐ NO TREATMENT RECOMMENDED~~ ~~☐ TREATMENT SUGGESTED~~ (ACE 1949983)
COMMENTS

This lagoon should be resurveyed at a lower water level in order to determine the exact extent and degree of oiling. This document represents a partial survey only. Based on these findings the observed oil on debris and cobbles should be removed. This lagoon/estuary system is very protected and oil will persist for a long time unless removed. Oil can be removed by wiping with sorbent towels or removing with shovels. Cleanup should not begin until water recedes.

OG CAL LARSON USCG DREHER, CWE SEGMENT ST/ K-0912 XX 500
 BIO KEN CRITCHLOW LAND REP CARL SCHOCH STREAM 202-10-10040 (OF)
 EXXON DARRYL YOE ADFG EDWARDS TIME 3:40 to 4:35
 TEAM NO. 14 TIDE LEVEL +1.9 DATE 5/2/90
 EST. SUBDIVISION LENGTH: 200 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R % B % C 00 % P 10 % G 5 % S 5 % M % V
 SLOPE: Long 55 % Hang 45 % Vert % WAVE EXPOSURE: ☐ Low ☐ Med ☒ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 150 m NO 50 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	A	B	P	S	SP	SN	ST	SL	SV	SM	SS	ST	SU	U	M	U
ASPHALT PAVEMENT																
POOLED																
COVER																
COAT																
STAIN				✓											✓	
MOUSSE																
PATTIES				✓											✓	
TARBALLS				✓											✓	
FILM																
NO OIL													✓		✓	✓

PAVEMENT H F S 0 sq. m by 0 or

PATTIES / TARBALLS 2 BAGS

NEAR SHORE SHEEN? (NO) BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs		✓	
Vegetation	✓		
Trash			
Debris			

Did you collect DEBRIS
☐ YES ☒ NO

TYPE 0

#BAGS 0

Photographs:

Roll No.

Frames

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL	BELOW		OIL / FILM COLOR								PIT ZONE				A N A	SHEEN (Y/N)	↓	SURFACE - SUBSURFACE SEDIMENTS
		OP	OR	OL	OS	NO		US	UC	SP	SN	ST	SL	SV	SM	SS	ST	SU	U	M	U				

COMMENTS DUE TO SPRING RUN OFF BACK TIDAL LAGOON AFTER WATER LEVEL WAS HIGHER, OIL/DRIPS, SPATTER, PATTIES WERE UNDER WATER. OIL OBSERVED WAS HEAVILY WENTERED. SOME OILED GRASSES WERE OBSERVED ALONG BANK OF BACK SHORE IN LAGOON. NO PITS DUG.

REVIEWED JW

DATE 5/4/90

OG CAL LARSON

1" = 100'

SEGMENT ST/ K-0912

STREAM 262-10-10040

DATE 5/2/90

SKETCH MAP

CHECKLIST

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

LEGEND

1 Δ

PH - No Subsurface Oil

2 Δ

PH - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

Splashed Distribution

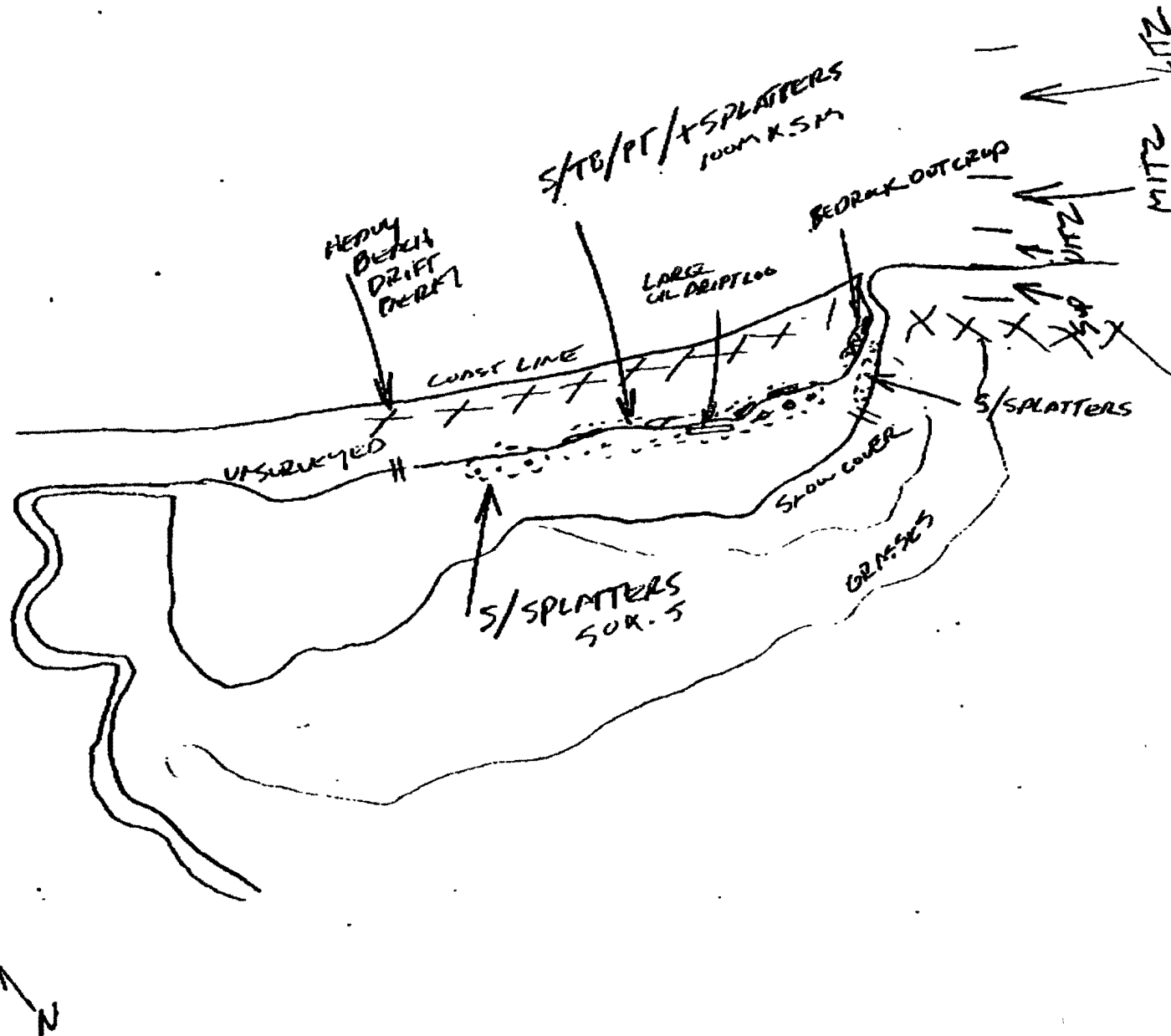
lll

Oiled Vegetation

1 ●

Photo location, direction, and number

ACE 1949985



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

REVISION 002400

ADFG MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS 43 DS TS AVS SCHA MMS PTA 2 REGION: PWS KP, CI K, 16

METHOD: Aerial Ground Boats

3 DATE: 5/2/90 15 HIGH TIDE TIMES: 1 21 TEAM RECORDER: E. WEISS

4 START TIME: 1840 16 HIGH TIDE HTS: 1 22 OBSERVERS: K. SCHOCK, C. CARSON

5 STOP TIME: 1635 17 LOW TIDE TIMES: 1550, 23 AGENCY: ADFG/EXXON/NAS/WWC

6 SEGMENT #: XX500 18 LOW TIDE HTS: 1 24 PHOTOS TAKEN: Y N

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

8 K-UNIT: K0912 20 USCG QUAD: AFOGNAR C-5 25 VIDEO TAKEN: Y X TAPES: _____

9 STAT AREA: _____ 26 SAMPLES TAKEN Y N NUMBER

10 LAT: _____ 11 LONG: _____ 27 011 908W0004K

12 SOURCE: Map Loran

13 LOCATION: DOUGLAS REEF AREA, AK PENINSULA

14 DESCRIPTION: ~1.5 NW OF VABM "DARK"

Sediment _____

Biological _____

Water _____

EXTENT OF OIL

27 SURFACE COVERAGE

SHORELINE				STREAM			
L	M	HP	S	L	M	HP	S

28 SURFACE THICKNESS

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

29 PENETRATION

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

30 OVERALL OIL IMPACT: N VL C N N

31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain

32 OILED DEBRIS? Y N

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

34 WAVE EXPOSURE: High Moderate Low

35 SUBSTRATE TYPE: Bedrock Boulder Cobble 25

Gravel 35 Sand Mud/silt 40

36 CATALOGED ANNO. FISH STREAM? Y N

37 CATALOG #: 262-10-10040

38 STREAM NAME: TRIPLE LAKES CREEK

39 OIL IN STREAM BED? Y N

40 OIL ON STREAM BANKS? Y N

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

42 OIL WITHIN 1 MILE OF STREAM? Y N

Where: _____

43 ANNOYOUS FISH PRESENT? Y N

44 ANNOYOUS FISH OBSERVATION

Species	Aerial	Ground

ACE 1949986

COMMENTS: BAND OF OIL TO CV ST. Y/P BEGINNING AT MOUTH
CONTINUING ON AROUND EAST BANK OF LAGOON. BAND
IS AT NORMAL LOW TIDAL AREA BUT DUE TO MELT OFF
IS 12-24" BELOW WATER'S SURFACE OF LAGOON AT LOW TIDE.
ONLY SURVEYED 1/3 OF LAGOON, 1/3 COVERED WITH SNOW, 1/3 UNSURVEYED
DUE TO TIME CONSTRAINTS. MOUSSE FAIRLY WEATHERED BUT STILL
LET'S OFF SHEET WHEN RUBBED. SHEEN DISSIPATES READILY IN WATER.

FRAME(S)	DESCRIPTION

48 OIL DISTRIBUTION DIAGRAM

RECOMMEND: FULL SSAT / ANADSSAT SURVEY BE CONDUCTED AT LATER DATE, WHEN SNOW COVER MELTED AND WATER LEVEL DOWN. MANY PATCHES HARD TO SPOT DUE TO WATER DEPTH AND SILT COVER WOULD BE MORE VISIBLE WITH LOWER WATER.

ALSO RECOMMEND MANUAL PICKUP CAGES ON $\frac{1}{3}$ SURVEYED BUT NOT UNTIL WATER GOES DOWN AND IMPACT IS ACCESSABLE.

ALSO HAD TB:ST/S AND ST CT/L/SM ON BANK OF LAGOON ABOVE WATER LEVEL. *D Wein*

ACE 1949987

- Sample taken
- Photo frame # and shot direction.

STATE OF ALASKA

DEPARTMENT OF FISH AND GAME

STEVE COWPER, GOVERNOR

Rapifax 349-1723

333 RASPBERRY ROAD
ANCHORAGE, ALASKA 99512-1288
PHONE: (907) 344-0841

RAPIFAX TRANSMITTAL SHEET

TO: TOM KELLY
EXXON - ANCH.

FROM: ES WEISS
AAG KODIAK

DATE: 5-19-90No. Pages: 3
(including this page)

MESSAGE:

DID NOT MAKE DIAGRAM USED
ANASSAT OR DIAGRAM.

ACE 1949988

OG CAL LARSON

1 = 100'

SKETCH MAP

SEGMENT ST/ K-0912

STREAM 262-10-10040

DATE 5, 2, 90

CHECKLIST

- ☐ H Area
- ☐ Approx. Scale
- ☐ Seg/Sub Entry
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HML/AVL
- ☐ SSL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ Pit Location(s)
- ☐ Photo Location(s)

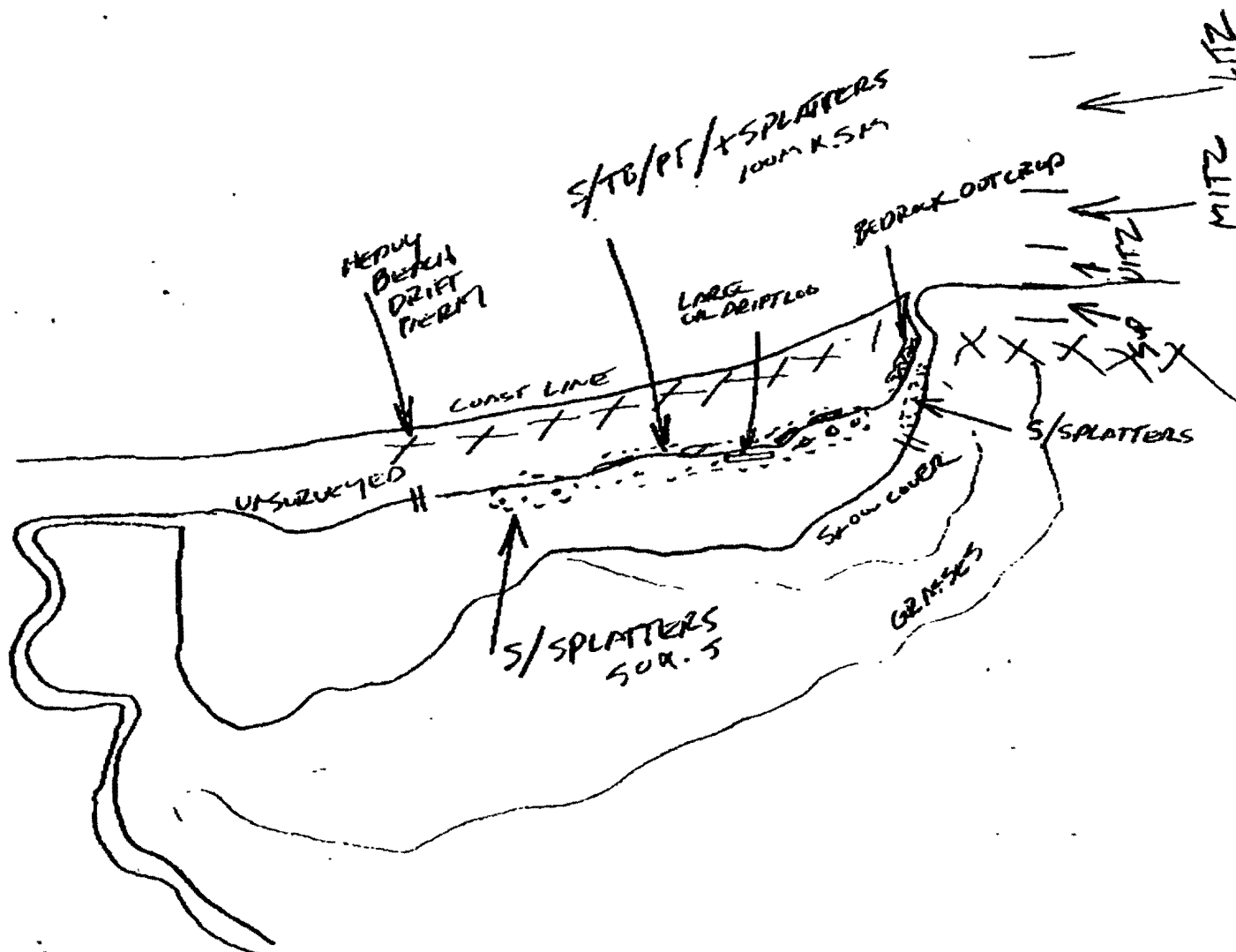
LEGEND

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

ACE 1949989

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

REVISION 02/24/90



Seg ID: XX-500

Subdiv: 262-10-10040

Survey Date: 5/2/90

Comments by: Ken Critchlow

The beach at this stream site is very high energy characterized by well-rounded pebble and cobble. A bedrock outcrop guards the stream mouth which breaks through a high storm berm and large log jam. The beach was depauperate.

A very large lagoon was present behind the storm berm. The backshore was about 50 percent covered by snow and couldn't be surveyed. About half of the remaining shore was surveyed. Small amounts of tarballs and patties were observed in the grass at the water's edge. Some mousse was present on submerged cobble in the lagoon. The extent of oiling of submerged rocks couldn't be determined.

Large numbers of water foul were observed at the north end of the lagoon. The area is obviously used for feeding and possibly nesting.

KR Critchlow

A brown bear skull (no mandible or teeth) was found at the water's edge in the lagoon. It was left in place.

AFOGNAK (C-5) QUADRANGLE

ALASKA

63 580 SERIES (TOPOGRAPHIC)

KRM

11/81

153° 20'
58° 45'

10040 FINAL

10060

0010

0020

2-10

ACE 1949991-18

STATE OF ALASKA

DEPARTMENT OF FISH AND GAME

STEVE COWPER, GOVERNOR

Rapifax 349-1723

333 RASPBERRY ROAD
ANCHORAGE, ALASKA 99518-1599
PHONE: (907) 344-0561

RAPIFAX TRANSMITTAL SHEET

TO: Ken Middleton
Anchorage HabitatDATE: 5/7/90No. Pages: 9
(including this page)FROM: J. BARNHART
Kodiak HabitatMESSAGE: Triple Lakes creek, Douglas Reef Area, AK For.
Stream # 262-10-10040
Segment # XX500

K-9-12

ALASKA DEPT OF
FISH & GAME

MAY 07 1990

REGION II
HABITAT DIVISION

ACE 1949992+1/8

TRIPLE LAKES
CREEK

FIELD SHORELINE COMMENT SHEET

SEGMENT ST/ K-0912 SUBDIVISION: 262-10-10040 DATE 02 MAY 90

USCG

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

☒ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

COMMENTS

NOTE: The west shore line of the larger lagoon was still snow covered.

* I suggest re-surveying this area after the snow melts back. The area I did survey (the east shore) had <1% stained driftwood and minimal very weathered/dry splatter on small submerged cobbles.

~~ADEG~~ → ADFG

NAME EDWARD W. WEISS SIGNATURE Edward W. Weiss

☐ NO TREATMENT RECOMMENDED

☒ TREATMENT SUGGESTED

COMMENTS

LAGOON SEGMENT IS LOW ENERGY AND PATCHES AND COVER ON COBBLES DO PRODUCE SLIGHT SHEEN WHEN RUBBED. THIS SHEEN DOES DISAPPEAR READILY IN WATER. STREAM NEEDS TO BE RESURVEYED FULLY WHEN SNOW COVER MELTS AND WATER LEVEL IS DOWN. BAND OF (PT, TB, CV, ST)/P IS CURRENTLY 12-24" BENEATH WATER'S SURFACE. CLEANUP WOULD ALSO HAVE TO WAIT UNTIL WATER LEVEL RECEDES, OIL IS ONLY PARTIALLY VISIBLE DUE TO WATER BEATH AND SILT.

~~LAND MANAGER~~ → NPS

NAME Carl Scheeh SIGNATURE Carl Scheeh

☒ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

COMMENTS

This lagoon should be resurveyed at a lower water level in order to determine the exact extent and degree of oiling.

* This document represents a partial survey only. Based on these findings the observed oil on debris and cobbles should be removed. This lagoon/estuary system is very protected and oil will persist for a long time unless removed. Oil can be removed by wiping with sorbent towels or removing with shovels. Cleanup should not begin until water recedes.

REVISION NO. 03/21/90

ACE 1949993

ANAD
SSAT DATA ENTRY FORMPAGE 1 OF 2GENERAL DATA

SEG ID: K-0912 262-10 SUBDIV: 10040 TEAM: 14 SURVEY DATE: 5/2/90
PAVEMENT: CHAR — AREA — THICKNESS — TARBALLS X
OILED: LGS MD VEG SM TRH — DBR — WAVE EXP: LW — MD — HG X
FAX RCVD: — DT: — AGENCY DISAGREE: —
EST SUBDIV LGTH: 200 OIL CATEGORY: W — M — N — VL 150 NO — U —

SURFACE DATASURFACE SEDIMENT: BRK — BLD — COB 80 PEB 10 GRN 5 SAN 5 MUD — VEG —CHAR #: 1 OIL CHAR: ST OIL DIST: CONT — BRKN — PTCH — SPLH X
OIL CLR: DBL FILM CLR: RW TIDAL ZONE: SU — UI X MI X LI —CHAR #: 2 OIL CHAR: PT OIL DIST: CONT — BRKN — PTCH — SPLH X
OIL CLR: DBL FILM CLR: RW TIDAL ZONE: SU — UI X MI X LI —CHAR #: 3 OIL CHAR: TB OIL DIST: CONT — BRKN — PTCH — SPLH X
OIL CLR: DBL FILM CLR: RW TIDAL ZONE: SU — UI X 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 —CHAR #: — OIL CHAR: — OIL DIST: CONT — BRKN — PTCH — SPLH —
OIL CLR: — FILM CLR: — TIDAL ZONE: SU — UI — MI — LI —

ACE 1949994

No Pits Dug

ANAD
SSAT DATA ENTRY FORM

SUBSURFACE DATA

PAGE 2 OF 2SEGMENT ID: K-0912 262-10
XX-500 SUBDIV: 10040

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

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

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

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

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

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

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

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

PROBLEMS: _____

OG CAL LARSON USCG DREHER, CWE SEGMENT ST/K-0912 WX 500
 BIO KEN CRITCHLOW LAND REP CARL SCHOON STREAM 202-10-10040 (OF)
 EXXON DARLYL YOE ADFG EDWARDS TIME 3:40 to 4:35
 TEAM NO. 14 TIDE LEVEL +1.9 DATE 5/2/90
 EST. SUBDIVISION LENGTH: 200 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R % B % C 80 % P 10 % G 5 % S 5 % M % V %
 SLOPE: Lang 55 % Hang 45 % Vert % WAVE EXPOSURE: ☐ Low ☐ Med ☒ High
 OIL CATEGORY LENGTH: W m M m N m VL 150 m NO 50 m

SURFACE OIL

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

PAVEMENT H F S sq. m by cmPATTIES / TARBALLS 2 BAGSNEAR SHORE SHEEN? (NO) BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs		✓	
Vegetation	✓		
Trash			
Debris			

Did you collect?
 DEBRIS
☐ YES ☒ NO

TYPE #BAGS

Photographs:

Roll No. Frames

SUBSURFACE OIL

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

COMMENTS DUE TO SPRING RUN OFF BACK TIDAL LAGOON AREA WATER LEVEL WAS HIGHER, OIL/DROPS, SPLATTER, PATTIES WERE UNDER WATER. OIL OBSERVED WAS HEAVILY WEATHERED. SOME OILED GRASSES WERE OBSERVED ALONG BANK OF BACK SHORE IN LAGOON. NO PITS DUG.

REVIEWED DATE

ACE 1949996

$$f'' = 100'$$

SKETCH MAP

DATE 5, 2 90

- ☐ N Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Bridg
- ☐ Orl Chst
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HWM/LWL
- ☐ SSL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ PH Location(s)
- ☐ Photo Location(s)

1 Δ
Pit - No Subsurface Oil

24

Fit - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

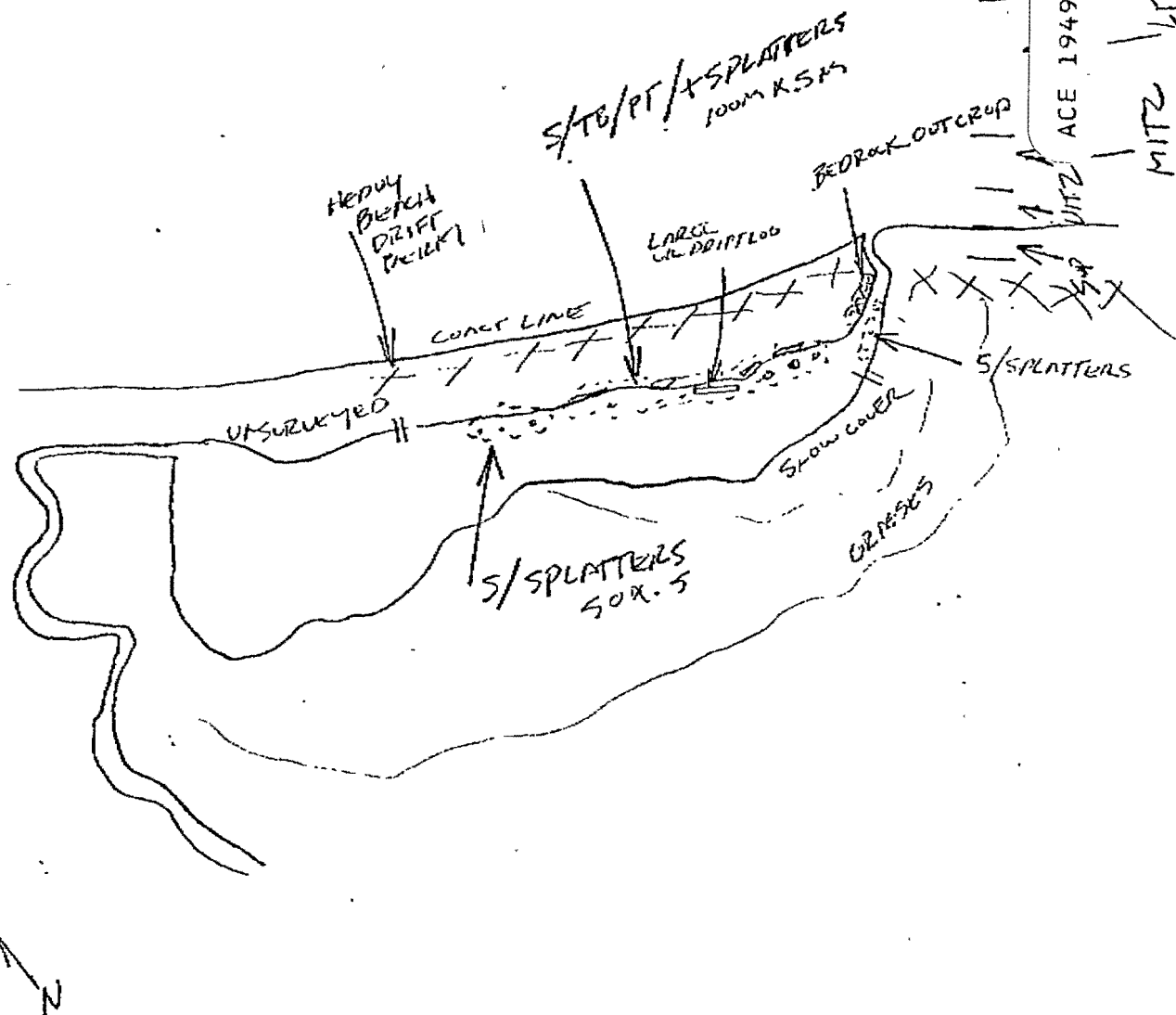
CT/S

Splashed Distribution

Old Vegetation

1 

Photo location, direction,
and number



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

REVISION: 01/24/98

6/9/0

MAY 07 '90 16:20 DEPTAHHHHHHHHH

OPERATIONS FIELD NOTES

See Back for Instructions

SEGMENT ID KO 912
 STREAM ID # ANAD XK-560
 ANNOTATED MAP INCLUDED 262-10-10040 (TRIPLE LAKE CREEK)
 YIN

DATE 5-2-90
 NAME DARRYL YOE
 TEAM # 14

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

SUBSURFACE OIL

Other (Describe)?	NONE

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

MANUAL PICKUP	Type of Debris			In Meters			# of Bags	Pickup	Manday
	Waste Tarballs	Oiled Veget	Cleanup Debris	Length	Width			Y/N	Estimate
Pocket #1	✓			100	.5	< 1		N	
Pocket #2									
Pocket #3									
Random/Continuous									

OILED LOGS ☒ YIN	OILING H/M/L	QUANTITY L/M/G	BURN YIN
--	--------------	----------------	----------

Is there Other Debris on the Beach? ☒ YIN How Many Bags? 2 Is it mingled with the Oiled Debris YIN 2

GENERAL

Snow covering 20 % of the Supratidal Zone?

Wave Exposure H/M/L

Access Limitations: VERY DIFFICULT FROM BOATSnare Boom/Pom Poms Recommended? NoWould the production Craft have to be relocated to complete work on this subdivision? ☒ YIN, # of Times 2

COMMENTS:

NO TREATMENT RECOMMENDED. SPILL STAINS ON ROCKS IN STREAM BED ARE VERY WEATHERED - IT WILL NOT PRODUCE SHEEN IN WATER WHEN RUBBED AND IS NOT MOBILE. MINOR SPILL STAINS ON SOME DRIFT WOOD IS ALSO WELL WEATHERED.

Seg ID: XX-500

Subdiv: 262-10-10040

Survey Date: 5/2/90

Comments by: Ken Critchlow

The beach at this stream site is very high energy characterized by well-rounded pebble and cobble. A bedrock outcrop guards the stream mouth which breaks through a high storm berm and large log jam. The beach was depauperate.

A very large lagoon was present behind the storm berm. The backshore was about 50 percent covered by snow and couldn't be surveyed. About half of the remaining shore was surveyed. Small amounts of tarballs and patties were observed in the grass at the water's edge. Some mousse was present on submerged cobble in the lagoon. The extent of oiling of submerged rocks couldn't be determined.

Large numbers of water fowl were observed at the north end of the lagoon. The area is obviously used for feeding and possibly nesting.

KR Critchlow

A brown bear skull (no mandible or teeth) was found at the water's edge in the lagoon. It was left in place.

ADF&G MULTI-ASSESSMENT DATA FORM

PE: BS SS DS TS AVS SCHA MMS PTA

2 REGION: PWS KP, CI K, P

Aerial Ground Boat

5/2/90

15 HIGH TIDE TIMES: 1

21 TEAM RECORDER: E. WEISS

1540

16 HIGH TIDE HTS: 1

22 OBSERVERS: K. SCHOCK, C. CARSON
A. YOE, K. KRITCHLO

1635

17 LOW TIDE TIMES: 1550

23 AGENCY: ADFG/EXXON/NAS/WW

XX500

18 LOW TIDE HTS: 1

24 PHOTOS TAKEN: Y N

19 TIDE HT AT SURVEY:

Roll #: Frame:

K0912

Ebb Slack Flood Slack

25 VIDEO TAKEN: Y X TAPES:

20 USCG QUAD: AFOGNAL C-5

Start: End:

11 LONG:

26 SAMPLES TAKEN? Y N Number

Map Loran

011

90EW004K

DOUGLAS REEF AREA, AIR PENINSULA

Sediment

ON: 1.5 NW OF VABM "DARK"

Biological

EXTENT OF OIL

Water

	SHORELINE				STREAM			
	L	W	M ²	S	L	W	M ²	S
COVERAGE								
THICKNESS								
ION								

36 CATALOGED ANAD. FISH SKEWT? Y N

37 CATALOG #: 262-10-10040

38 STREAM NAME: TRIPLE LAKES CREEK

39 OIL IN STREAM BED? Y N

40 OIL ON STREAM BANKS? Y N

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

42 OIL WITHIN 1 MILE OF STREAM? Y N

OIL IMPACT: N VL C M H

Pooled Mousse Tar Asphalt Sticky Stain

Where:

CRIST Y N

43 ANADROMOUS FISH PRESENT? Y N

TYPE: Headland Lagoon Low-lying Rocks Beach Cove

44 ANADROMOUS FISH OBSERVATION
Species Aerial Ground

OSURE: High Moderate Low

E TYPE: Bedrock Boulder Cobble 25

Gravel 35 Sand Mud/silt 40

Species	Aerial	Ground

BAND OF OIL, TB, CV, ST Y/P BEGINNING AT MOUTH
CONTINUING ON AROUND EAST BANK OF LAGOON. BAND
AT NORMAL LOW TIDAL AREA BUT DUE TO MELT OFF
12-24" BELOW WATERS SURFACE OF LAGOON AT LOW TIDE.
SURVEYED 1/3 OF LAGOON, 1/3 COVERED WITH SNOW, 1/3 UNSURVEYED
TO TIME CONSTRAINTS. MOUSSE FAIRLY WEATHERED BUT STILL
FRESH WHEN RUBBED. SHEEN DISSIPATES READILY IN WATER.

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/K09-19-HB-001 STREAM NO: 262-20-10040 DATE 4/30/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
9LM Land mammals
7JJ Subsistence area: Invertebrate harvesting
ADF&G Anadromous Stream #262-20-10040 or 10035 (near border in HB-004)
See attached Ecological Constraint sheet for specific constraints and contracts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to uncoiled biota and substrate. Avoid disturbance or damage to clam bed in sand beach near Hallo Creek.

ARCHAEOLOGICAL CONSTRAINTS:

If cultural resources are uncovered during shoreline treatment, stop work in the vicinity, mark the location of the find and contact Exxon's Cultural Resource Program immediately (564-3276 (Anchorage) or 229-1508 (24 hrs.)).

SHPO SIGNATURE: Rebel Jean Dan DATE: 5/25/90

Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

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

COMMENTS: Recommend manual pick up of pooled oil, mousse, tarballs and patties. Consult ADF&G for appropriate work dates.

- POSSIBLE TIME WINDOW 7/15 - 7/31

TAG COMMENTS:

TAG APPROVAL DATE: 5/23/90

ADEC Art Weimer Art Weimer

EXXON Andy Gtz Andy Gtz

NOAA Bruce Warratt Bruce Warratt

USCG G.A. Fetter G.A. Fetter

FOSC: DATE:

ACE 1950001

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/K09-12-XK500 STREAM NO: 262-10-10040 DATE 6/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
5S Shorebird/waterfowl concentration (4/25 to 5/15)
See attached Ecological Constraint sheet for specific constraints and contracts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

See above.

ARCHAEOLOGICAL CONSTRAINT: Consultation and inspection with an Exxon archaeologist is required prior to treatment. Specific on-site monitoring requirements will be determined at that time.

>>> PHONE 564-3274 (Anchorage) OR 229-1508 (24 hrs.) <<<

SHPO SIGNATURE: Charles E. Holmes DATE: June 29, 1990

Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

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

COMMENTS: Recommended treatment is manual removal of mousse, patties and oiled debris as shown on attached sketch map.

TAG COMMENTS: SURVEY AREA NOT PREVIOUSLY SURVEYED

TAG APPROVAL DATE: 6/18/90.

ADEC Roy Mowbray R. Mowbray

EXXON Amey TEAL

NOAA Joseph Talbot

USCG G.A. Reiter

FOSC: D. Zarnoff DATE: 6/30/90

See ATTACHED CONSTRAINTS

G.A. Reiter

U.S. Department
of Transportation

United States
Coast Guard



Federal On Scene Key
Coordinator
U. S. Coast Guard

Bank Bldg
601 W 5th Ave
Suite 500
Anchorage, AK
99501
(907) 277-3833

July 9, 1990

Ref: K0912-XX500, Stream # 262-10-10040

1. The Coast Guard agrees with the constraints outlined in the enclosed National Park Service letter of 7/2/90 for referenced segment. These constraints shall be adhered to during treatment procedures.

D. E. Ciancaglini
for **D. E. CIANCAGLINI**
Federal On-Scene Coordinator

ACE 1950003



IN REPLY REFER TO

United States Department of the Interior

NATIONAL PARK SERVICE

ALASKA REGIONAL OFFICE
2525 Gambell Street, Room 107
Anchorage, Alaska 99503-2892



Ref: K09-12-XX500
(262-10-10040)

July 2, 1990

The National Park Service (NPS) will agree to the treatment recommendation on the segment referenced above only under the conditions specified by this office on May 15 and 21, 1990. The Technical Advisory Group (TAG) did not recognize the constraints made by the NPS. If TAG specifies the constraints, then treatment can be approved. The specific constraints include:

- Viable/live marsh vegetation should be left intact.
- NPS on-site monitor will be required. We Suggest additional ADF&G monitors be present during cleanup due to the extreme sensitivity of the impacted habitat and the difficulty of finding the submerged mousse/vegetation mats.
- Special Use Permit will be required.

Cordell J. Roy
Acting Chief, Office of Oil Spill Coordination

ACE 1950004

SEGMENT STI K-912/XX500

SUBDIVISION A

DATE 06/01/90

CHECKLIST

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

LEGEND

1 Δ
PH: No Subsurface Oil

2 Δ
PH: Subsurface Oil

CT/C
Continuous Distribution

CT/B
Broken Distribution

CT/P
Patchy Distribution

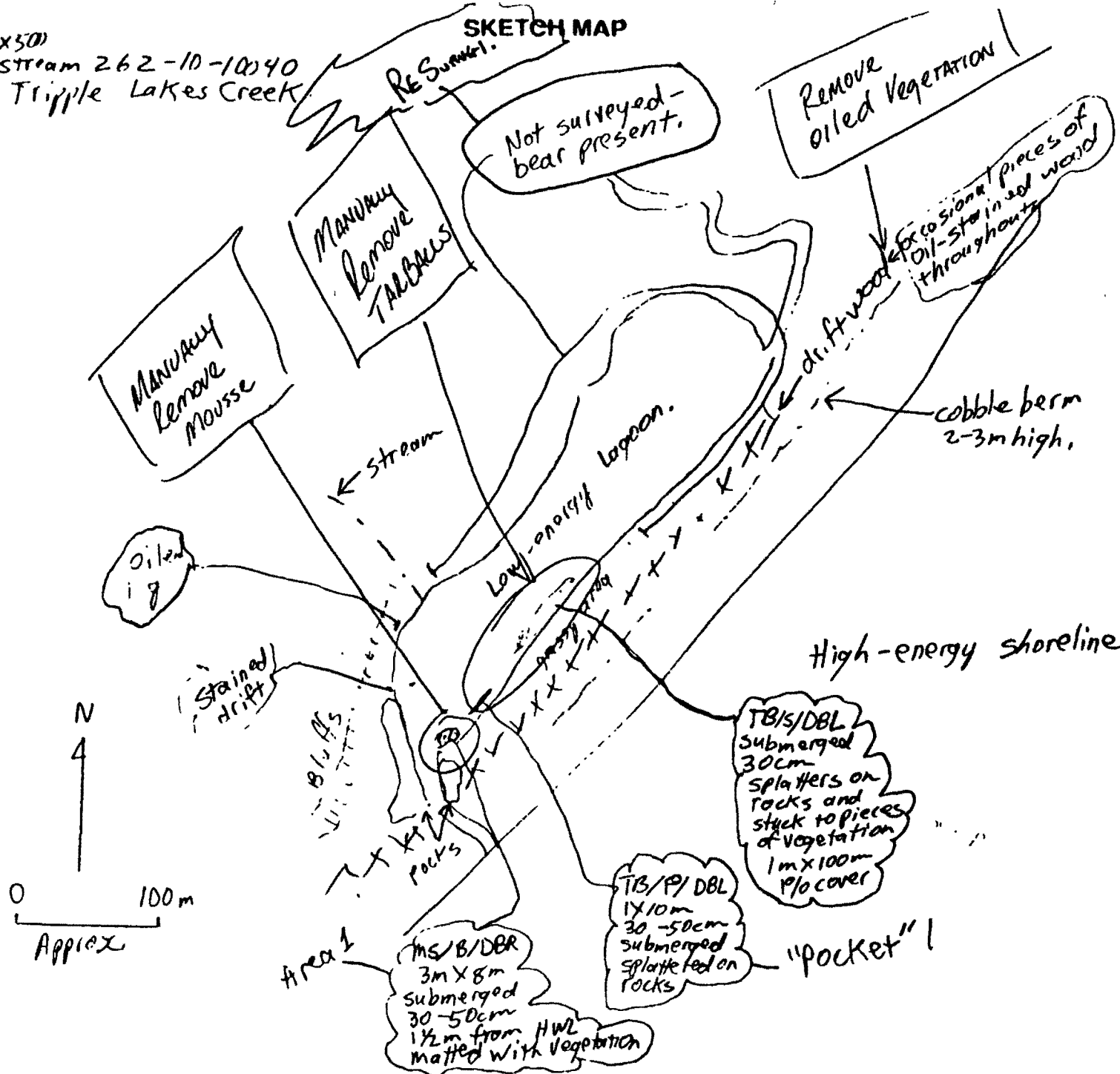
CT/S
Splashed Distribution

eee
Oiled Vegetation

1 ●
Photo location, direction,
and number

Stream 262-10-10040
Tripple Lakes Creek

SKETCH MAP



ACE 1950005

Oil Character Length (m): AP PO CV CT ST MS 8 PT TB 110 FL NO 232 U 550

REVISION 002

JO CALLARSON

1 = 100'

SKETCH MAP

SEGMENT ST/ K-0912

STREAM 262-10-NO90

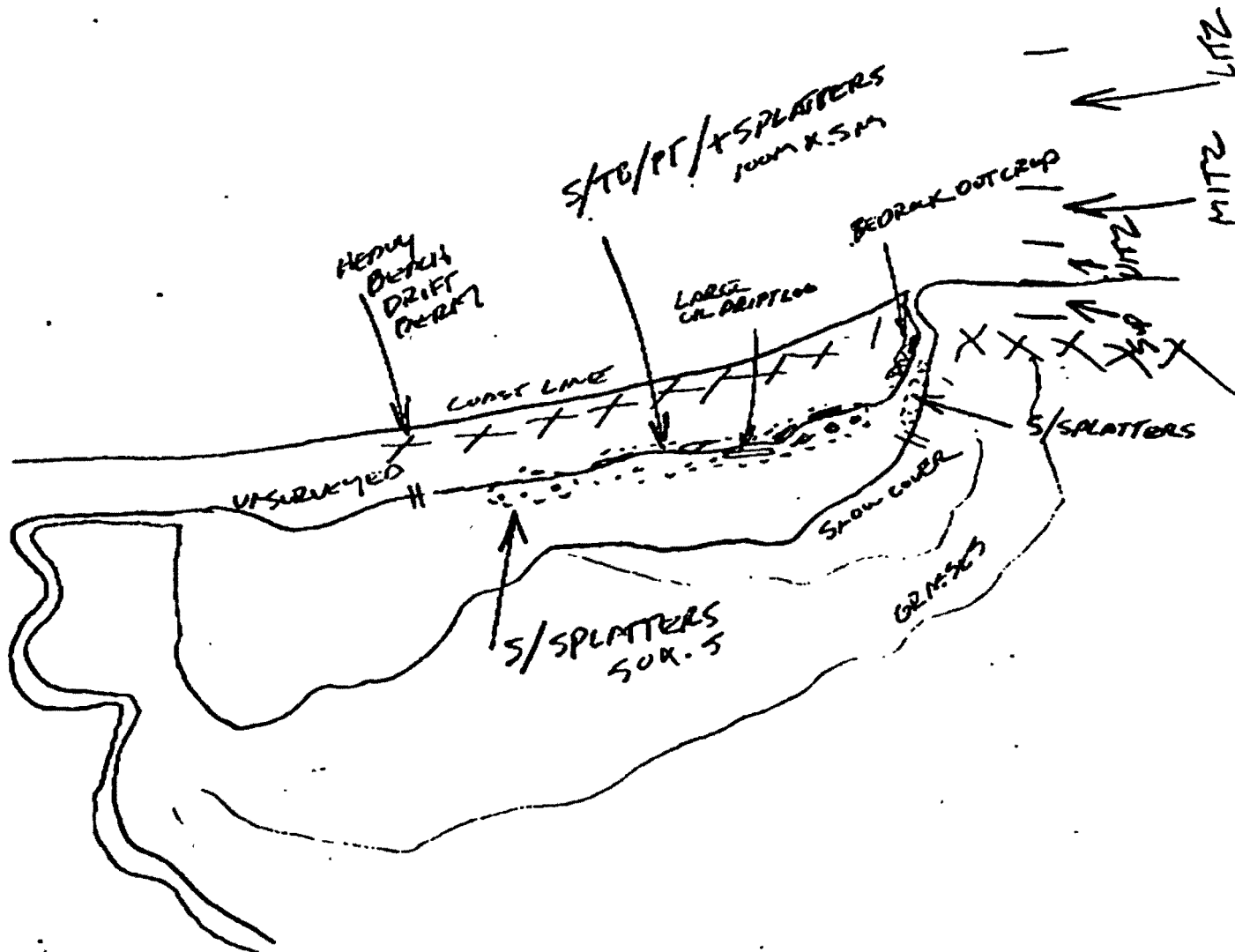
DATE 5, 2, 90

CHECKLIST

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

LEGEND

- 1 Δ
- 11 - No Subsurface Oil
- 2 Δ
- 11 - Subsurface Oil
- CT/C
- Continuous Distribution
- CT/B
- Intermittent Distribution
- CT/P
- Pointy Distribution
- CT/S
- Scattered Distribution
- lll
- Red Vegetation
- 1 →
- into location, direction, and number



ACE 1950006

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

REVISION 000000

SKETCH MAP

SEGMENT ST/ K-0912

STREAM 262-10-10090

DATE 5 / 2 / 90

CHECKLIST

- ___ **SI Arrows**
- ___ **Approx. Scale**
- ___ **Seg/Sub Body**
- ___ **On Off**
- ___ **Width**
- ___ **Length**
- ___ **% Cover**
- ___ **Substrate Character**
- ___ **Est. HMLA/VOL**
- ___ **SSL**
- ___ **Profile Location(s)**
- ___ **Profile(s)**
- ___ **PR Location(s)**
- ___ **Photo Location(s)**

LEGEND

14

73 - No Subsurface Oil



11 - Substance ON -

CTAC

WILLIAM L. DILLON

CT/O

Notes Distribution

CTAP

Key Distribution

CT/S

Product Distribution

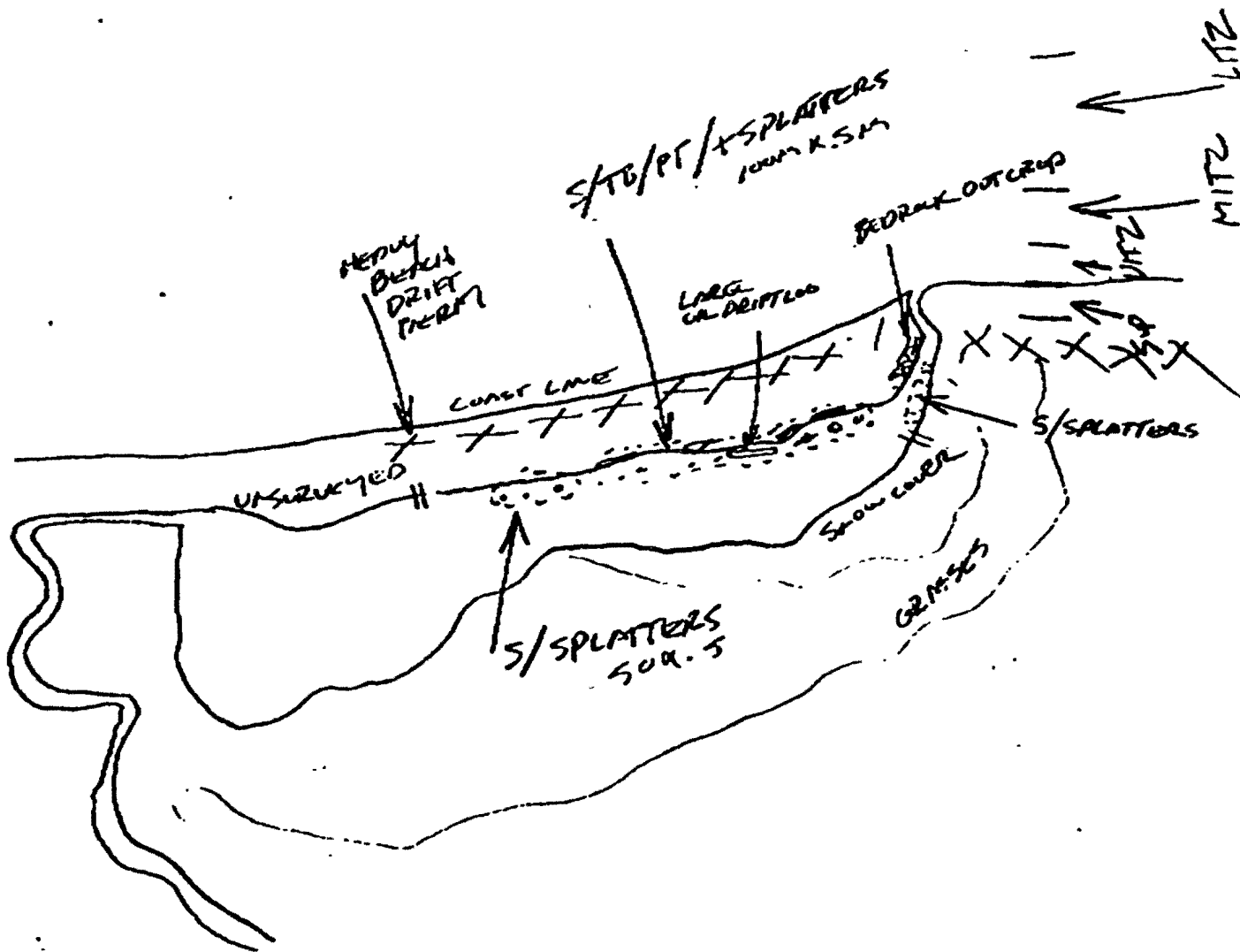
eee

Leaf Vegetation

1.

oto location, direction,
d number

ACE 1950007



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

References

AFOGNAK (C-5) QUADRANGLE

ALASKA

63 501 SERIES, TOPOGRAPHIC

Scale 1:50,000

152°20'
58°45'

KRM

11/81

10040 FINAL

10060

0v

0010

0020

2-10

151FF/HF
ACE 1950008

K9-12 xx500 AFS 262-10-10040
Triple Lakes creek

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/K09-12-~~XX500~~ STREAM NO: 262-10-10040 DATE 6/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

- 1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
5S Shorebird/waterfowl concentration (4/25 to 5/15)

See attached Ecological Constraint sheet for specific constraints and contracts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

See above.

ARCHAEOLOGICAL CONSTRAINT: Consultation and inspection with an Exxon archaeologist is required prior to treatment. Specific on-site monitoring requirements will be determined at that time.

>>> PHONE 564-3274 (Anchorage) OR 229-1508 (24 hrs.) <<<

SHPO SIGNATURE: Charles E. Holmes DATE: June 29, 1990

Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

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

COMMENTS: Recommended treatment is manual removal of mousse, patties and oiled debris as shown on attached sketch map.

TAG COMMENTS: SURVEY AREA NOT PREVIOUSLY SURVEYED

TAG APPROVAL DATE: 6/18/90

ADEC R. M. Meyer R. M. Meyer

EXXON Amoy TEAL R. M. Meyer

NOAA Joseph Tullent JCB

USCG G. R. HEITER G. R. HEITER

FOSC: J. J. J. J. DATE: 6/30/90

VIA FAX 2:00 PM
7/5/90

This is the only complete survey of
Lakes Creek. I completed this the day of the
cleanup. gfb

ADF&G MULTI-ASSESSMENT DATA FORM

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

2 REGION: PWS KP, CI K, AP

METHOD: Aerial Ground Boat

3 DATE: 7/8/90

15 HIGH TIDE TIMES: 0304 1 1618

21 TEAM RECORDER: J. BARNHART

4 START TIME: 1245

16 HIGH TIDE HTS: 18.1 1 16.9

22 OBSERVERS: Terry Ellsworth, Bill Stillings

5 STOP TIME: 1800

17 LOW TIDE TIMES: 0942, 2148

23 AGENCY: ADEL Excm USCG

6 SEGMENT #: XX-500

18 LOW TIDE HTS: -1.8 1 3.8

24 PHOTOS TAKEN: (Y) N

7 STATION #:

19 TIDE HT AT SURVEY:

Roll #: 90JPBC03K Frame: 13, 14, 15, 16, 17

8 K-UNIT: KC9-12

Ebb Slack Flood Slack

25 VIDEO TAKEN: Y (N) TAPE#:

9 STAT AREA: 262-10

20 USCG QUAD: Afognak C-5

Start: End:

10 LAT: 58 43 24

11 LONG: 153 25 26

26 SAMPLES TAKEN? (Y) N Number

12 SOURCE: Map Loran Anad Catalog

011 90JPBC05K

13 LOCATION: Douglas Reef Area, Alaska Peninsula

Sediment

14 DESCRIPTION:

Biological

Water

EXTENT OF OIL

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

36 CATALOGED ANAD. FISH SREAM? (Y) N

37 CATALOG #: 262-10-10040

38 STREAM NAME: Triple Lakes Creek

39 OIL IN STREAM BED? (Y) N

40 OIL ON STREAM BANKS? (Y) N

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

42 OIL WITHIN 1 MILE OF STREAM? Y N

Where:

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

43 ANADROMOUS FISH PRESENT? (Y) N

34 WAVE EXPOSURE: High Moderate Low

44 ANADROMOUS FISH OBSERVATION
Species Aerial Ground

35 SUBSTRATE TYPE: Bedrock Boulder Cobble 50

Gravel 10 Sand Mud/silt 40

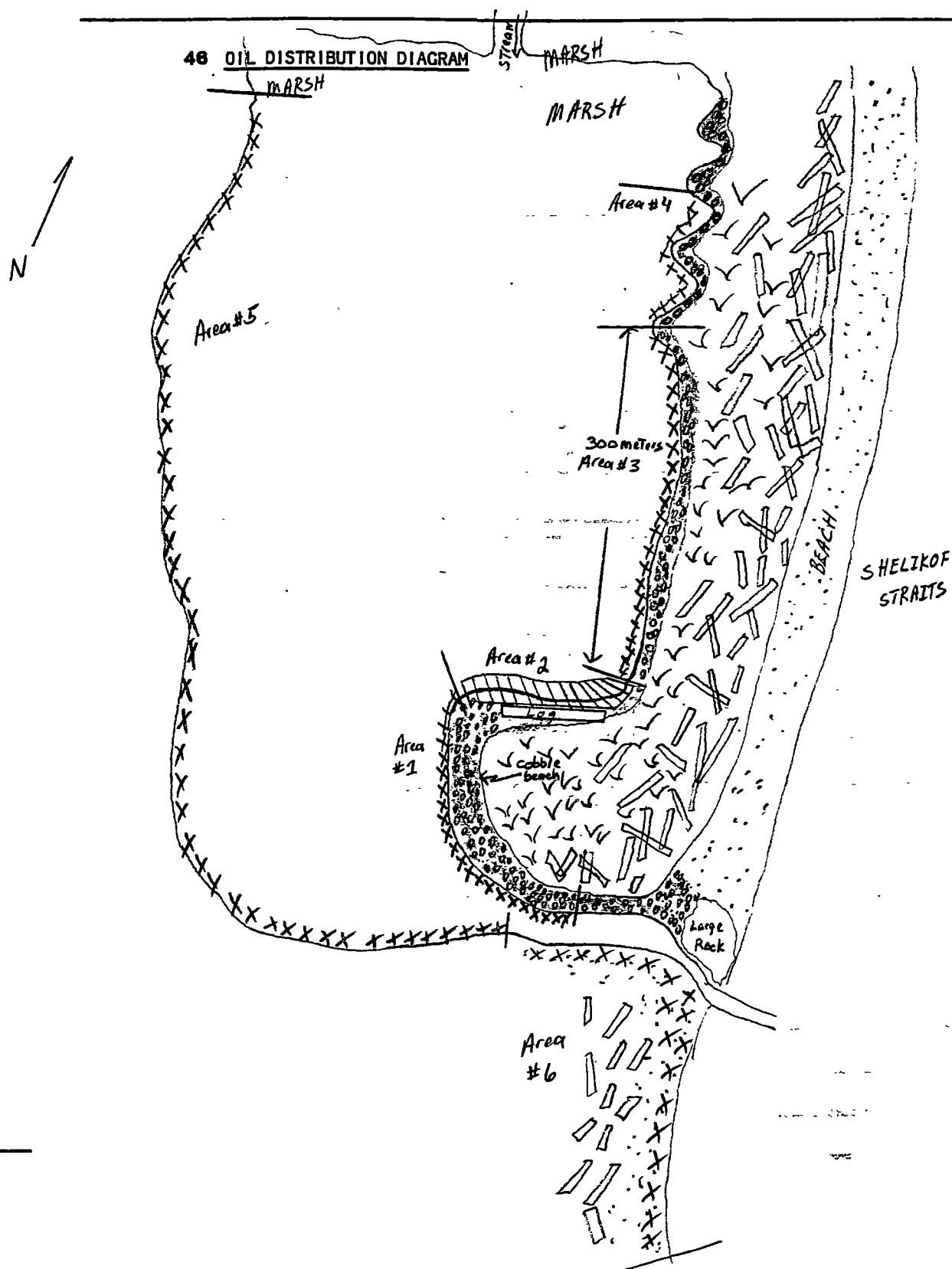
<u>Coho Fry</u>		<u>Numerous</u>

COMMENTS: On this date the water level was very low exposing and allowing access to oiled areas previously submerged. Area #1 50m x 1.5m CT, CV, ST on cobble 5% oil cover thickness 5mm. Area #2 20m x 4m vegetative Tar/mousse mat, sticky black oil. 60% oil cover thickness Avg 3cm. Area #3 300m x 1m patchy oiled vegetative mat, Tar patties/patches plus CV, CT and ST thickness 2cm. Area #4 100m x 1m sporadic CT, CV and ST thickness 1mm. Area #5 770m x 1m CT, CV and ST 44% thickness 1mm. Area #6 50m x 2m CT, CV, ST 10% oil cover.

FRAME(S)

DESCRIPTION

13	work crew wiping oiled cobble
14	Previously submerged oil now exposed due to low water level
15	Same as #14
16	Submerged oil in stream
17	Submerged Tarmat being removed from stream



= Sample taken

= Photo frame # and
shot direction.

EVOS CLEANUP MONITORING, 1990.

REGION: Alaska Peninsula

REPRESENTATIVES

K-UNIT: K9-12

EXXON: Bill Stilling

SEGMENT: XX500

USCG: Larry Raymond

LOCATION: 9.5 mi. South of Douglas Crk Lagoon

DEC: Terry Ellsworth

STREAM NAME: Triple Lakes Creek

NPS: Howard Overton

ANAD. STREAM CAT. # 262-10-10040

USFWS: N/A

ANAD. FISH STREAM PERMIT ISSUED: 7/8/90

ADFG: Jeff Barnhart

DATE(S) WORKED: 7/8/90

OTHER: Buckley, Tomblin, Wilson (Exxon)

SQUAD # 9 Helo

HOURS WORKED: 5

SQUAD SIZE: 6

TOTAL MAN HOURS WORKED: 30

NUMBER OF BAGS COLLECTED: 40

POUNDS OF OIL/OILED SEDIMENT REMOVED: 1500 from helo scales.

TREATMENT TECHNIQUES: MANUAL REMOVAL ☒ BIOREMEDIATION

OTHER

OIL BANDS

DEMOS DATE: 7/8/90

L 50m W 1.5m D 5mm m² 75 %oil cover 5 V

OIL SAMPLE # 90JPB005K

L 20m W 4m D 3cm m² 80 %oil cover 60 V

OIL TYPE: MS, PT, TB, CT, CV, ST

L 300m W 1m D 2cm m² 300 %oil cover 15 V

SUBSTRATE TYPE: cobble 40%

L 100m W 1m D 1mm m² 100 %oil cover <1 V

Sand/silt 50% Gravel 10%

L 770m W 1m D 1mm m² 770 %oil cover <1 V

L 50m W 2m D 1mm m² 100 %oil cover 190 V

PHOTOLOG

Roll #

FRAME #

DESCRIPTION

90JPB003K

13

work crew wiping oiled cobble

90JPB003K

14

Previously submerged oil now exposed due to low water level.

90JPB003K

15

Previously submerged o. now exposed due to low water level.

90JPB003K

16

submerged oil in stream

90JPB003K

17

submerged Tarmat being removed from stream

PROBLEMS: Bill Stillings and Randy Buckley, Exxon representatives did not want to expend the time necessary to clean the oil from this system. The work proceeded however, with the removal of 1500 pounds of oil. Portions of the vegetative tar mats were covered with approx 12 inches of water. Upon completion of the cleanup the water was too turbid to evaluate the extent of remaining oil.

OBSERVATIONS: on this date the water level was very low, exposing ^{portions of} previously submerged vegetative tar mats, tar patties, mousse. This allowed a comprehensive survey of the system. Three other attempts had been made earlier in the year to assess this system. Water levels precluded a complete survey on ^{each of} those occasions. The vegetative tar mats generated considerable sheen when removed from the water. Pom Poms and sorbent pads were used to pick up some of the sheen.

SIGNED: Jeff Bamhart.

**ALASKA 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 K0912 ^{Stream} SUBSEGMENT NUMBER 262-10-10040

DEC REP Terry Ellsworth USCG REP Larry Raymond

EXXON REP Bill Stillings BOAT NAME/SQUAD NUMBER He 5 / #9

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.

Possibly Manual Removal

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

Mousse/vegetation mat may still remain in area 1 (as delineated on OG map with work order). The 20m long band was still partially covered by water. As the mat was removed from the water the bottom silt was stirred up making the water murky + impossible to see through.

Additional Comments (keep objective)

Recommend for Post Treatment Assessment to determine if any ms-veg mat remains.

*Canada
"B"*

signature Terry Ellsworth

Date and time of demobilization from segment 7-8-90 / 18:00
Shoremon\55 5-12-90

EVOS CLEANUP MONITORING, 1990.

REGION: Alaska Peninsula REPRESENTATIVES
 K-UNIT: K9-12 Exxon: Bill Stillings
 SEGMENT: XX500 USCG: Larry Raymond
 LOCATION: 9.5 mi. South of Douglas Crk Lagoon DEC: Terry Ellsworth
 STREAM NAME: Triple Lakes Creek NPS: Howard Overtan
 ANAD. STREAM CAT. # 262-10-10040 USFWS: N/A
 ANAD. FISH STREAM PERMIT ISSUED: 7/8/90 ADFG: Jeff Barnhart
 DATE(S) WORKED: 7/8/90 OTHER: Buckley, Tomblin, Wilson (Exxon)
 SQUAD # 9 Halo HOURS WORKED: 5
 SQUAD SIZE: 6 TOTAL MAN HOURS WORKED: 30
 NUMBER OF BAGS COLLECTED: 40
 POUNDS OF OIL/OILED SEDIMENT REMOVED: 1500 from halo scales.
 TREATMENT TECHNIQUES: MANUAL REMOVAL ☒ BIOREMEDIATION

OTHER

OIL BANDS

DEMOB DATE: <u>7/8/90</u>	<u>1.50m</u> W <u>1.5m</u> D <u>5mm</u> m ² <u>75</u>	% oil cover <u>5</u> V
OIL SAMPLE # <u>90JPB005K</u>	<u>1.20m</u> W <u>4m</u> D <u>3cm</u> m ² <u>80</u>	% oil cover <u>60</u> V
OIL TYPE: <u>MS, TT, TA, CT, CV, ST</u>	<u>1.300m</u> W <u>1m</u> D <u>2cm</u> m ² <u>300</u>	% oil cover <u>15</u> V
SUBSTRATE TYPE: <u>cobble 40%</u>	<u>1.100m</u> W <u>1m</u> D <u>1mm</u> m ² <u>100</u>	% oil cover <u>41</u> V
<u>sand/silt 50% Gravel 10%</u>	<u>1.770m</u> W <u>1m</u> D <u>1mm</u> m ² <u>770</u>	% oil cover <u>41</u> V
	<u>1.50m</u> W <u>2m</u> D <u>1mm</u> m ² <u>100</u>	% oil cover <u>100</u> V

PHOTOLOG

Roll #

FRAME #

DESCRIPTION

<u>90JPB003K</u>	<u>13</u>	<u>work crew wiping oiled cobble</u>
<u>90JPB003K</u>	<u>14</u>	<u>Previously submerged oil now exposed due to low water level.</u>
<u>90JPB003K</u>	<u>15</u>	<u>Previously submerged oil now exposed due to low water level.</u>
<u>90JPB003K</u>	<u>16</u>	<u>submerged oil in stream</u>
<u>90JPB003K</u>	<u>17</u>	<u>submerged foam being removed from stream</u>

PROBLEMS: Bill Stillings and Randy Buckle, Exxon representatives did not want to expend too much money to clean the oil from this system. The work proceeded however, with the removal of 1500 pounds of oil. Portions of the vegetative tar mats were covered with approx 12 inches of water. Upon completion of the cleanup the water was too turbid to evaluate the extent of remaining oil.

OBSERVATIONS: On this date the water level was very low, exposing ^{portions of} previously submerged vegetative tar mats, tar patches, masses. This allowed a comprehensive survey of the system. Three prior attempts had been made earlier in the year to assess this system. Water levels precluded a complete survey on ^{each of} these occasions. The vegetative tar mats generated considerable sheen when removed from the water. Pom Poms and sorbent pads were used to pick up some of the sheen.

SIGNED: Jeff Bonhat.

FIELD SHORELINE COMMENT SHEET

Triple Lakes Creek

SEGMENT ST 1 K-912/XX500 SUBDIVISION: Stream # 262-10-10040 DATE 6/1/90

~~NORR~~
~~USCG~~

NAME Tom Callahan SIGNATURE Tom Callahan

☐ NO TREATMENT RECOMMENDED

☒ TREATMENT SUGGESTED

COMMENTS

The storm berm has moved and partially blocked the stream mouth, causing the lagoon level to rise. This occurred after ~~mousse~~ mousse floated in and settled along an edge of the lagoon. As a result, mousse was found incorporated with flooded vegetation in 2-3 ft of water. This mousse/vegetation mixture is recoverable and is still able to ~~create~~ ^{cause} a sheen when disturbed. Suggest this be removed prior to salmon spawning in the area containing mousse

~~ADEC~~

NAME Terry Ellsworth SIGNATURE Terry Ellsworth

☐ NO TREATMENT RECOMMENDED

☒ TREATMENT SUGGESTED

COMMENTS

Oil occurs as cv-ct-st on cobbles, driftwood and trash and as a mousse-vegetation mat within the lagoon. The oiled cobbles and ms-veg. mat are presently submerged under 30 cm of water to 3m from the present shoreline. A thin film of silt covers the area making it difficult to see. Water level in the lagoon is not influenced by daily tidal action. Survey was not completed due to a bear on the nearby beach. Manual removal of ms-veg mat and driftwood and cleaning of heavy coat-cover on cobbles is recommended before fish spawn. If assessment is not completed before treatment, it should be completed before crew finishes in the area.

LAND MANAGER

NAME N.A. SIGNATURE _____

☐ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

COMMENTS

SHORELINE OILING SUMMARY

REVISION NO. 03/22/90

J. Springer USEC NOAA T. Callahan SEGMENT STI K-912/XX500
D. Lohse LAND REP J. Barnhart SUBDIVISION A / Stream 262-10-10
EXXON Park Service R. Waver ADEC T. Ellsworth TIME 18:20 to 19:30
 TEAM NO.: 19 TIDE LEVEL: +2 to +4 DATE 06/01/90
 EST. SUBDIVISION LENGTH: 900 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: S to N
 SURFACE SEDIMENTS: R 60 % B 10 % C 20 % P 10 % G 10 % S 10 % M 20 % V 20 %
 SLOPE: Lang 100 % Hang 0 % Vert 0 % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W 550 m M 8 m N 10 m VL 100 m NO 232 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR					IMPACTED ZONES			
	C	B	P	S	SB BR	DB RW	GY SL	DB TL	LB H	SU	UI	ME	U
ASPHALT PAVEMENT													
POOLED													
COVER													
COAT													
STAIN													
MOUSSE		X						X		X			
PATTIES													
TARBALLS			✓	X		X				X			
FILM													
NO OIL											X		

PAVEMENT: H F S _____ sq. m by _____ c

PATTIES / TARBALLS 50 BAGSNEAR SHORE SHEEN? NO BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs	X		
Vegetation	X		
Trash	X		
Debris			

DEBRIS COLLECTED
☐ YES ☒ NO

TYPE _____

#BAGS _____

Photographs:

Roll No. _____

Frames _____

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CM)	BELOW	OIL / FILM COLOR					PIT ZONE				A N A	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO			SB BR	DB RW	GY SL	DB TL	LB H	SU	UI	ME	U		

COMMENTS Oil is submerged in lagoon. "Tarballs" occur as black speckles clinging to cobbles. "Mousse" occurs in matts clumped together with vegetation.

Lagoon is in supratidal zone isolated from daily tidal action. Lower and mid-intertidal zones were not surveyed.

FIELD SHORELINE COMMENT SHEET

Anadssat

4

262-10-10040

MENT ST 1 K09-12 +4500 SUBDIVISION: Triple Lakes Creek DATE 6/2/90

ADFG

NAME JEFFREY P. BARNHART

SIGNATURE

Jeffrey P Barnhart

☐ NO TREATMENT RECOMMENDED
COMMENTS☒ TREATMENT SUGGESTED

See ADF&G Anadssat Form for complete Details.

Recommend^{manual} removal of oiled vegetative mats from under the water.
Oiled cobble / Pebble should be removed from the water cleaned and replaced.

The oiled cobble / pebble / vegetative mats are difficult to located as a thin film of silt covers them under the water.

ADFG Habitat Division personnel need to be present during cleanup to locate the problem areas.

A complete survey needs to be conducted as it is suspected additional oiled vegetative mats / oiled cobble are present in this low energy Lagoon.

Jeff Barnhart

REVISION: 01/24/00

K9-12 XX500 AFS 262-10-10040

Triple Lakes creek 1990

1990

ACE 1949873

90 ANADSSAT (Third and Final)

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

SEGMENT NUMBER: LOCAL STREAM #:

YR CATALOGED: LATITUDE: LONGITUDE: LEGAL:

ASC NUMBER: *262-10-10040*
 SURVEY TYPE: *AN (Third)*
 METHOD: *F*

*DATE: *7/8/90*
 START TIME: *1245*
 STOP TIME: *1800*

WAVE EXPOS: *Low*

SAMPLES TAKEN? *Y*

SAMPLE I.D. NUMBERS: 1. *90JPB005K*
 4.

TEAM RECORDER: *JEFFREY BARNHART*
 OBSERVERS: *Terry Ellsworth, Bill Stillings, Larry Raymond*

AGENCY(IES): *ADFG, ADEC, Exxon, USCG*

PHOTOS TAKEN? *Y*
 Roll #: *90JPB003K* Frames: *13,14,15,16,17*
 VIDEO TAKEN? *N* Tape Number:
 Counter Start:

	LENGTH	WIDTH	M2	%	THICK	PEN	OIL TYPE
SITE 1	<i>50 m</i>	<i>1.5 m</i>	<i>75</i>	<i>5</i>	<i>5 mm</i>	<i>surface</i>	<i>CT, CV, ST</i>
SITE 2	<i>20 m</i>	<i>4 m</i>	<i>80</i>	<i>60</i>	<i>3 cm</i>	<i>surface</i>	<i>PTVE</i>
SITE 3	<i>300 m</i>	<i>1 m</i>	<i>300</i>	<i>15</i>	<i>2 cm</i>	<i>surface</i>	<i>PTVE, CT, CV, ST</i>
SITE 4	<i>100 m</i>	<i>1 m</i>	<i>100</i>	<i>41</i>	<i>1 mm</i>	<i>surface</i>	<i>CT, CV, ST</i>
SITE 5	<i>770 m</i>	<i>1 m</i>	<i>770</i>	<i>441</i>	<i>1 mm</i>	<i>surface</i>	<i>CT, CV</i>

OVERALL OIL IMPACT: *L*

OIL IN STREAM CHANNEL?

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

SUBSTRATE

Bedrock Granule
 Boulder Sand *10*
 Cobble *50* Silt *20*
 Pebble *10* Veget. *10*

SPECIES	SSFR				
COUNT	Thousands				

COMMENTS: *This is the only complete survey of Triple Lakes creek. I completed this survey the day cleanup occurred. On this date the water level was very low, exposing oiled areas previously submerged. Area #2 and #3 contained vegetative tar mats, comprised of sticky black oil mixed with dead, dried grasses forming a mat over the lagoon bottom. The oil character code sheet does not have an oil type definition that covers this type of oiling. I used PTVE (where VE means oiled vegetation) for lack of anything better.*

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

ASC NUMBER: 262-10-10040

SURVEY TYPE:

METHOD:

DATE: 07/08/90

START TIME:

STOP TIME:

WAVE EXPOS:

SAMPLES TAKEN?

SAMPLE I.D. NUMBERS: 1.
4.

TEAM RECORDER:

OBSERVERS:

AGENCY(IES):

PHOTOS TAKEN?

Roll #:

Frames:

VIDEO TAKEN? Tape Number:

Counter Start:

	LENGTH	WIDTH	M2	%	THICK	PEN	OIL TYPE
SITE 1 6	50m	2m	100	1	1	surface	CT, CV, ST
SITE 2							
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:

This is the only complete survey of Triple Lakes Creek. I completed this the day of the cleanup. JPB

ADF&G MULTI-ASSESSMENT DATA FORM

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

2 REGION: PWS KP, CI KAP

METHOD: Aerial Ground Boat

3 DATE: 7/8/90

15 HIGH TIDE TIMES: 0304 1 1618

21 TEAM RECORDER: J. BARNHART

4 START TIME: 1245

16 HIGH TIDE HTS: 18.1 1 16.9

22 OBSERVERS: Terry Elsworth, Bill Stillings

5 STOP TIME: 1800

17 LOW TIDE TIMES: 0942 1 2148

23 AGENCY: ADEC Exxon USCG

6 SEGMENT #: XX500

18 LOW TIDE HTS: -1.8 1 3.8

24 PHOTOS TAKEN: (Y) N

7 STATION #:

19 TIDE HT AT SURVEY:

Roll #: 90JPB005K Frame: 13 14 15 16 17

8 K-UNIT: KC9-12

Ebb Slack Flood Slack

25 VIDEO TAKEN: Y (N) TAPE#:

9 STAT AREA: 26.2-10

20 USCG QUAD: Aleknuk C-5

Start: End:

10 LAT: 58 43 24

11 LONG: 153 25 26

26 SAMPLES TAKEN? (Y) N Number

12 SOURCE: Map Loran Acoustic

011 90JPB005K

13 LOCATION: Douglas Reef Area, Alaska Peninsula

14 DESCRIPTION:

Sediment

Biological

Water

EXTENT OF OIL

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

36 CATALOGED ANAD. FISH STREAM? (Y) N

37 CATALOG #: 26.2-10-10040

38 STREAM NAME: Triple Lakes Creek

39 OIL IN STREAM BED? (Y) N

40 OIL ON STREAM BANKS? (Y) N

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

42 OIL WITHIN 1 MILE OF STREAM? Y N

30 OVERALL OIL IMPACT: N VL L M H

31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain

32 OILED DEBRIS? Y N

Where:

33 SHORELINE TYPE: Headland Low-lying Rocks Beach Cove

43 ANADROMOUS FISH PRESENT? (Y) N

Lagoon Marsh

34 WAVE EXPOSURE: High Moderate Low

44 ANADROMOUS FISH OBSERVATION

35 SUBSTRATE TYPE: Bedrock Boulder Cobble 50

Gravel 10 Sand Mud/silt 40

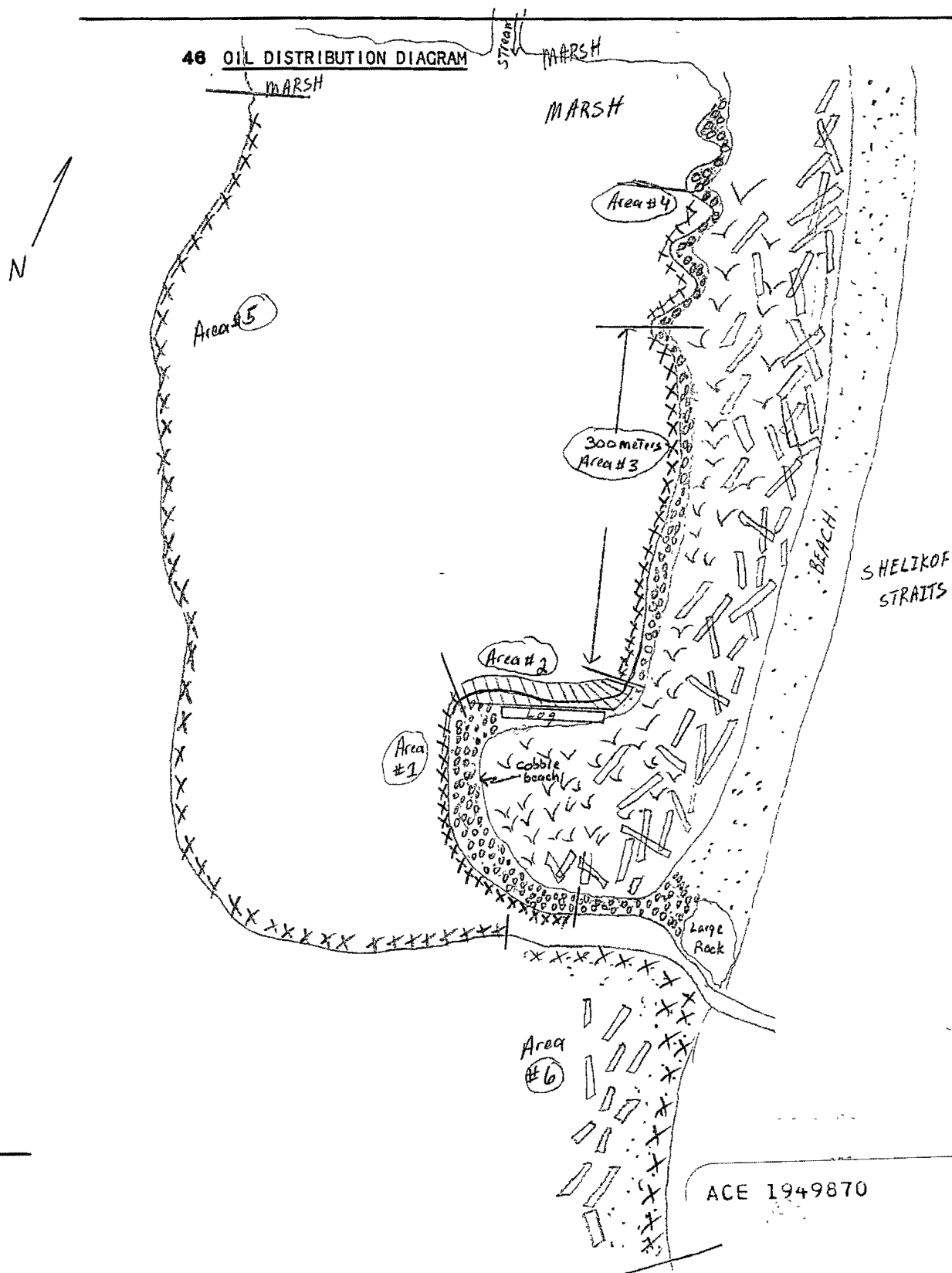
Species Aerial Ground

<u>Coho Fry</u>		<u>Numerous</u>

COMMENTS: On this date the water level was very low exposing and allowing access to oiled areas previously submerged. Area #1 50m x 15m CT, CV, ST on cobble 5% oil cover thickness 5mm. Area #2 20m x 10m vegetative Tar/mousse mat, sticky black oil, 60% oil cover thickness Avg 3cm. Area #3 300m x 1m patchy oiled vegetative mat, Tar patches/patches plus CV, CT and ST thickness 2cm. Area #4 100m x 1m sporadic CT, CV and ST thickness 1mm. Area #5 770m x 1m CT, CV, and ST 44% thickness 1mm. Area #6 50m x 2m CT, CV, ST 1% oil cover.

ACE 1949869

FRAME(S)	DESCRIPTION
13	work crew wiping oil from cobble
14	Previously submerged oil now exposed due to low water level
15	same as #14
16	submerged oil in stream
17	submerged Tar-mat being removed from stream



= Sample taken
 = Photo frame # and
 shot direction.

ACE 1949870



90 PRESCREEN

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

ASC NUMBER: 262-10-10040
SURVEY TYPE: RA
METHOD: F
DATE: 4/26/90
START TIME: 1120
STOP TIME: 1215

TEAM RECORDER: EDWARD W. WEISS
OBSERVERS: J. BARNHART

AGENCY(IES): ADFG

PHOTOS TAKEN? Y
Roll #: 90FW002K Frames: 24-30
VIDEO TAKEN? N Tape Number: /
Counter Start: /

SAMPLES TAKEN? N

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

OILING DATA

	LENGTH	WIDTH	M2	%	THICK	FEN	OIL TYPE
SITE 1							MS, ST, CT
SITE 2							
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT: VL

OIL IN STREAM CHANNEL? Y

SUBSTRATE		
Bedrock	5	Granule
Boulder	10	Sand
Cobble	80	Silt
Pebble	5	Veget.

OIL ON BEACH WITHIN 50M OF STREAM MOUTH? Y

SPECIES					
COUNT					

COMMENTS: OIL STAINED AND SPLATTERED DRIFT/DEBRIS IN UPTZ ADJACENT TO STREAM MOUTH AND DOWN THE BACKSIDE OF BEACH BERM INTO LAGOON. OIL STAIN AND COAT. ON COBBLES BENEATH WATER'S SURFACE, 18" TO 6' FROM BANK. IN COMPLETE SURVEY LAGOON 3/4 ICED OVER. RECOMMEND ANADSSAT SURVEY.
↑
BEACH FRONT MOUTH HAS HIGH WAVE EXPOSURE BUT LAGOON WHERE OILING IS LOCATED IS LOW EXPOSURE

+FISH/HF
ACE 1949860

ADF&G MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS SS DS TS AVS SCHA MMS PTA 2 REGION: PWS KP,CI K,AP
 METHOD: Aerial Ground Boat
 3 DATE: 4/26/90 16 HIGH TIDE TIMES: 1 21 TEAM RECORDER: E. WEISS
 4 START TIME: 1120 18 HIGH TIDE HTS: 1 22 OBSERVERS: J. BARNHART
 5 STOP TIME: 1215 17 LOW TIDE TIMES: 1000 23 AGENCY: ADFG
 6 SEGMENT #: XX500 18 LOW TIDE HTS: -561 24 PHOTOS TAKEN: (Y) N
 7 STATION #: _____ 19 TIDE HT AT SURVEY: _____ Roll #: 0021K Frame: 24-29
 8 K-UNIT: K0912 Ebb Slack Flood Slack 25 VIDEO TAKEN: Y X TAPE#: _____
 9 STAT AREA: _____ 20 USCG QUAD: _____ Start: _____ End: _____
 10 LAT: _____ 11 LONG: _____ 26 SAMPLES TAKEN? Y X Number _____

12 SOURCE: Map Loran 011 _____
 13 LOCATION: DOUGLAS REEF AREA ALASKA PENINSULA Sediment _____
 14 DESCRIPTION: _____ Biological _____
 _____ Water _____

EXTENT OF OIL

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

30 OVERALL OIL IMPACT: N VL L M H
 31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain
 32 OILED DEBRIS: (Y) N
 33 SHORELINE TYPE: Headland Lagoon Low-lying Rocks Beach Cove
 34 WAVE EXPOSURE: High Moderate Low
 35 SUBSTRATE TYPE: Bedrock 5 Boulder 10 Cobble 80
 Gravel 5 Sand _____ Mud/silt _____

36 CATALOGED ANAD. FISH STREAM? X N
 37 CATALOG #: 262-10-100410
 38 STREAM NAME: TRIPLE LAKES CREEK
 39 OIL IN STREAM BED? X N
 40 OIL ON STREAM BANKS? X N
 41 OIL ON BEACH ADJACENT TO MOUTH? X N
 (within 50 meters)
 42 OIL WITHIN 1 MILE OF STREAM? Y N
 Where: _____

43 ANADROMOUS FISH PRESENT? Y N
 44 ANADROMOUS FISH OBSERVATION
 Species Aerial Ground

COMMENTS: OIL STAINED & SPLATTERED DRIFT/DEBRIS IN HIGH TIDE LINE
ADJACENT TO MOUTH & DOWN BACKSIDE INTO LAGOON. OIL STAIN
COAT ON COBBLES BENEATH WATERS SURFACE TO 18" TO 6' +
FROM BANK ACE 1949861 →

RECOMMEND: YES ANADSSAT E. Weiss J. Barnhart



90 ANADSSAT (First)

check with
Ed or in
your photo
log dataDO NOT
HAVE IN
PHOTO LOG

ASC NUMBER: ? SEGMENT NUMBER: ?
LOCATION:
STREAM NAME:
KODIAK K-UNIT: LOCAL STREAM #:
USGS QUADRANGLE:
SHORELINE TYPE: LAGOON

WAVE EXPOSURE: LOW

ASC NUMBER: 262-10-10040
SURVEY TYPE: AN (First)
METHOD: F
DATE: 5/2/90
START TIME: 1540
STOP TIME: 1635

TEAM RECORDER: EDWARD W. WEISS
OBSERVERS: K. SCHOCK, C. LARSON,
D. YDES, K. KRITCHLOW
AGENCY(IES): AAFB, EXXON, NAS, WWC

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

SAMPLES TAKEN? Y

SAMPLE I.D. NUMBERS: 1. 90ELWOODK2.
4. 5. 3. 6.

OILING DATA

	LENGTH	WIDTH	M2	%	THICK	FEN	OIL TYPE
SITE 1							
SITE 2							
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT: L

OIL IN STREAM CHANNEL? Y

SUBSTRATE

Bedrock		Granule	
Boulder		Sand	
Cobble	25	Silt	40
Pebble	35	Veget.	

OIL ON BEACH WITHIN 50M OF STREAM MOUTH? Y

SPECIES					
COUNT					ACE 1949863

COMMENTS: BAND OF (PT, TB, CV, ST) / P BEGINNING AT MOUTH.
CONTINUING ON AROUND EAST BANK OF LAGOON.
BAND IS AT NORMAL LOW TIDE AREA BUT
DUE TO MELT OFF IS 12-24" BELOW THE LAGOON
WATER SURFACE AT LOW TIDE. ONLY SURVEYED 1/3
OF LAGOON, 1/3 COVERED WITH SNOW, 1/3 UNSURVEYED
DUE TO TIME CONSTRAINTS. MOUSSE IS FAIRLY WEATHERED
BUT STILL LETS OFF SHEEN WHEN RUBBED. SHEEN
DISSIPATES READILY IN WATER. RECOMMEND FULL
SSAT / ANADSSAT BE CONDUCTED AT LATER DATE,
WHEN SNOW COVER IS MELTED AND WATER LEVEL
IS DOWN. Many patties hard to spot due to water depth and silt cover, would be more visible with owl.



90 ANADSSAT (First)

ASC NUMBER: 7	SEGMENT NUMBER:	YR CATALOGED:
LOCATION:		
STREAM NAME:		LATITUDE:
KODIAK K-UNIT:	LOCAL STREAM #:	LONGITUDE:
USGS QUADRANGLE:		LEGAL:
SHORELINE TYPE: LAGOON		WAVE EXPOSURE: LOW

ASC NUMBER: 262-10-10040
SURVEY TYPE: AN (First)
METHOD: F
DATE: 5/2/90
START TIME: 1540
STOP TIME: 1635

TEAM RECORDER: EDWARD W. WEISS
OBSERVERS: K. SCHOLK, C. LARSON,
D. YDES, K. KRITCHLOW
AGENCY(IES): AAFB, EXXON, NAS, WWC

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

SAMPLES TAKEN? ☒

SAMPLE I.D. NUMBERS: 1. 90ELWOODK₂. 3.
4. 5. 6.

OILING DATA

	LENGTH	WIDTH	M2	%	THICK	FEN	OIL TYPE
SITE 1							
SITE 2							
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT: L

OIL IN STREAM CHANNEL? ☒

OIL ON BEACH WITHIN 50M OF STREAM MOUTH? ☒

SUBSTRATE			
Bedrock		Granule	
Boulder		Sand	
Cobble	25	Silt	40
Pebble	35	Veget.	

SPECIES					
COUNT					ACE 1949863

COMMENTS: BAND OF (PT, TB, CV, ST) / P BEGINNING AT MOUTH.
CONTINUING ON AROUND EAST BANK OF LAGOON.
BAND IS AT NORMAL LOW TIDE AREA BUT
DUE TO MELT OFF IS 12-24" BELOW THE LAGOON
WATER SURFACE AT LOW TIDE. ONLY SURVEYED 1/3
OF LAGOON, 1/3 COVERED WITH SNOW, 1/3 UNSURVEYED
DUE TO TIME CONSTRAINTS. MOUSSE IS FAIRLY WEATHERED
BUT STILL LETS OFF SHEEN WHEN RUBBED. SHEEN
DISSIPATES READILY IN WATER. RECOMMEND FULL
SSAT / ANADSSAT BE CONDUCTED AT LATER DATE,
WHEN SNOW COVER IS MELTED AND WATER LEVEL
IS DOWN. Many patties hard to spot due to water depth and silt cover, would be more visible with owl.

Wetland

Lower water. Also recommend manual pickup based on 1/3 surveyed but not until water goes down and impact is accessible.

Also had TB+ST/s and ST CL/L/SM on bank of lagoon above water level.

ADF&G MULTI-ASSESSMENT DATA FORM

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

2 REGION: PWS KP, CI K, AP

METHOD: Aerial Ground Boat3 DATE: 5/2/9015 HIGH TIDE TIMES: 121 TEAM RECORDER: E. WEISS4 START TIME: 154016 HIGH TIDE HTS: 122 OBSERVERS: K. SCHOCK, C. CARSON, D. YOE, K. KRITCHLOW5 STOP TIME: 163517 LOW TIDE TIMES: 155323 AGENCY: ADFG/EXXON/NAS/WWC6 SEGMENT #: XX50018 LOW TIDE HTS: 1.9

24 PHOTOS TAKEN: Y N

7 STATION #: _____

19 TIDE HT AT SURVEY: _____

Roll #: _____ Frame: _____

8 K-UNIT: K0912Ebb Slack Flood Slack25 VIDEO TAKEN: Y X TAPE#: _____

9 STAT AREA: _____

20 USCG QUAD: AF09NAR C-5

Start: _____ End: _____

10 LAT: _____

11 LONG: _____

26 SAMPLES TAKEN? X N Number

12 SOURCE: Map Loran -

011 90EW0004K13 LOCATION: DOUGLAS REEF AREA, AK PENINSULA14 DESCRIPTION: ~1.5 NW OF VABM "DARK"

Sediment _____

Biological _____

Water _____

EXTENT OF OIL

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

36 CATALOGED ANAD. FISH STREAM? X N

28 SURFACE THICKNESS								
29 PENETRATION								

37 CATALOG #: 262-10-1004038 STREAM NAME: TRIPLE LAKES CREEK30 OVERALL OIL IMPACT: N VL L H H39 OIL IN STREAM BED? X N31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain40 OIL ON STREAM BANKS? X N32 OILED DEBRIS? X N41 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 Low44 ANADROMOUS FISH OBSERVATION
Species Aerial Ground35 SUBSTRATE TYPE: Bedrock Boulder Cobble 25Gravel 35 Sand Mud/silt 40

ACE 1949864

COMMENTS: BAND OF (PTB, CV, ST) / P BEGINNING AT MOUTH
CONTINUING ON AROUND EAST BANK OF LAGOON. BAND
IS AT NORMAL LOW TIDAL AREA BUT DUE TO MELT OFF
IS 12-24" BELOW WATERS SURFACE OF LAGOON AT LOW TIDE.
ONLY SURVEYED 1/3 OF LAGOON, 1/3 COVERED WITH SNOW, 1/3 UNSURVEYED
DUE TO TIME CONSTRAINTS. MOUSSE FAIRLY WEATHERED BUT STILL
LETS OFF SHEEN WHEN RUBBED. SHEEN DISSIPATES READILY IN WATER.
(OVER 3

45 PHOTOLOG

FRAME(S)

DESCRIPTION

46 OIL DISTRIBUTION DIAGRAM

RECOMMEND: FULL SSAT / ANADSSAT SURVEY BE
CONDUCTED AT LATER DATE, WHEN SNOW COVER
MELTED AND WATER LEVEL DOWN. MANY PATCHES
HARD TO SPOT DUE TO WATER DEPTH AND
SILT COVER WOULD BE MORE VISIBLE WITH
LOWER WATER.

ALSO RECOMMEND MANUAL PICKUP BASED ON 1/3
SURVEYED BUT NOT UNTIL WATER GOES DOWN AND
IMPACT IS ACCESSABLE.

ALSO HAD TB:ST/S AND ST CT/L/SM ON BANK
OF LAGOON ABOVE WATER LEVEL. *DWIM*

= Sample taken
= Photo frame # and
shot direction.

ACE 1949865

90 ANADSSAT (second)

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

ASC NUMBER: 362-10-10040
 SURVEY TYPE: AN (second)
 METHOD: F
 DATE: 6/1/90
 START TIME: 1830
 STOP TIME: 1930

TEAM RECORDER: JEFFREY BARNHART
 OBSERVERS: Dave Lohse, Jim Springer, Mike Goodwin, Tom Callisto
 Terry Ellsworth, Ray Waver
 AGENCY (IES): WWC, DNR, NOAA, DEC, NPS

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

SAMPLES TAKEN? N

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

OILING DATA

	LENGTH	WIDTH	M2	%	THICK	FEN	OIL TYPE
SITE 1	8 m	3 m	24	75	1 cm	surface	PT/C
SITE 2	10 m	1 m	10	40	1 cm	surface	PT/C
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT: L

OIL IN STREAM CHANNEL? Y

SUBSTRATE

Bedrock Granule
 Boulder Sand
 Cobble 40 Silt 30
 Pebble 30 Veget.

OIL ON BEACH WITHIN 50M OF STREAM MOUTH?

SPECIES	BRNB				
COUNT	1				

COMMENTS: ST, CT, TB/P on cobble along shore of lagoon and under 1 to 2 feet of water. In addition, two areas, one 3m x 8m (75% coverage) and a second 1m x 10m (40% coverage) contain mats of vegetation and sticky tar in 1-2 feet of water. Oiled debris LV/P/MD. Survey incomplete due to presence of a bear, NPS-RPO decision. Recommend removal of oiled vegetative mats from under the water. Oiled cobble/pebble should be removed from the water, cleaned and replaced. It is suspected additional oiled vegetative mats are present in the lagoon. The remainder of the lagoon needs to be surveyed. The oiled cobble/pebble/vegetative mats are difficult to locate as a thin film of silt covers them under the water.

second Anadssat survey. Incomplete
due to bear activity in the area.

ADF&G MULTI-ASSESSMENT DATA FORM

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

METHOD: Aerial (Ground) Boat

3 DATE: 6/11/90 16 HIGH TIDE TIMES: 10:00 AM / 10:37 PM 21 TEAM RECORDER: JEFF BARNHART
DAVE Lohse, Jim Springer

4 START TIME: 1836 18 HIGH TIDE HTS: 13.1 / 15.5 22 OBSERVERS: Mike Goodwin, Tom Callahan
Terry Ellsworth Ray Waver

5 STOP TIME: 1930 17 LOW TIDE TIMES: 4:00 AM / 4:06 PM 23 AGENCY: WCC WCC, DNR NOAA DEC, NPS

6 SEGMENT #: XX50T 18 LOW TIDE HTS: 3.9 / 3.4 24 PHOTOS TAKEN: Y (N)

7 STATION #: 19 TIDE HT AT SURVEY: Roll #: Frames:

8 K-UNIT: K09-12 Ebb Slack (Flood) Slack 25 VIDEO TAKEN: Y (N) TAPE#: Start: End:

9 STAT AREA: 262-10-10040 20 USCG QUAD: Alagnak C-5

10 LAT: 58° 43' 24" 11 LONG: 153° 25' 26" 26 SAMPLES TAKEN? Y (N) Number

12 SOURCE: Map Loran (Anadcat) 011

13 LOCATION: Douglas Reef Area, AK Peninsula Sediment

14 DESCRIPTION: 2.5 miles NW of LABIN DARK 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 (Housse) (Tar) Asphalt (Sticky) (Stain)

32 OILED DEBRIS? (Y) N

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

34 WAVE EXPOSURE: High Moderate (Low)

35 SUBSTRATE TYPE: Bedrock Boulder Cobble 40
Gravel 30 Sand Mud/silt 30

36 CATALOGED ANAD. FISH SREAM? (Y) N

37 CATALOG #: 262-10-10040

38 STREAM NAME: Triple Lakes creek

39 OIL IN STREAM BED? (Y) N

40 OIL ON STREAM BANKS? (Y) N

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

42 OIL WITHIN 1 MILE OF STREAM? Y N

Where:

43 ANADROMOUS FISH PRESENT? Y (N)

44 ANADROMOUS FISH OBSERVATION

Species	Aerial	Ground

ACE 1949866 +/3

COMMENTS: Oil character: ST TBCT/Pon cobble along shore of lagoon and under 1 to 2 ft. of water. In addition
Two areas, one 3m x 8m (75% coverage) and a second 1m x 10m (40% coverage) contain mats of vegetation and sticky
Tar in 1-2 feet of water oiled debris: LV/P/MD. Survey incomplete due to presence of bear. NPS, RPO decision.
Recommend removal of oiled vegetative mats from under the water. Oiled cobble/pebble should be removed from
the water cleaned and replaced. IT is suspected additional oiled vegetative mats are present in the lagoon.
The remainder of the lagoon needs to be surveyed. The oiled cobble/pebble/vegetative mats are
difficult to locate as a thin film of silt covers them under the water. ADF&G Habitat Div. Personnel need
to be present during cleanup to locate the problem areas.

90 ANADSSAT (Third and Final)

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

SEGMENT NUMBER: LOCAL STREAM #: YR CATALOGED: LATITUDE: LONGITUDE: LEGAL:

ASC NUMBER: 262-10-10040
SURVEY TYPE: AN (Third)
METHOD: F

*DATE: 7/8/90
START TIME: 1245
STOP TIME: 1800

WAVE EXPOS: Low

SAMPLES TAKEN? Y

SAMPLE I.D. NUMBERS: 1. 90JPB005K
4.

TEAM RECORDER: JEFFREY BARNHART
OBSERVERS: Terry Ellsworth, Bill Stillings, Larry Raymo.

AGENCY(IES): ADFG, ADEC, Exxon, USCG

PHOTOS TAKEN? Y
Roll #: 90JPB003K Frames: 13, 14, 15, 16, 17
VIDEO TAKEN? N Tape Number:
Counter Start:

	LENGTH	WIDTH	M2	%	THICK	PEN	OIL TYPE
SITE 1	50 m	1.5 m	75	5	5 mm	surface	CT, CV, ST
SITE 2	20 m	4 m	80	60	3 cm	surface	PTVE
SITE 3	300 m	1 m	300	15	2 cm	surface	PTVE, CT, CV, ST
SITE 4	100 m	1 m	100	41	1 mm	surface	CT, CV, ST
SITE 5	770 m	1 m	770	441	1 mm	surface	CT, CV

OVERALL OIL IMPACT: L

OIL IN STREAM CHANNEL?

SUBSTRATE	
Bedrock	Granule
Boulder	Sand 10 35
Cobble 50 40	Silt 20 10
Pebble 10 10	Veget. 10 5

OIL ON BEACH WITHIN 50M OF STREAM MOUTH? Y

SISA	
SPECIES	SSER BRNB
COUNT	Thousands 1

COMMENTS: This is the only complete survey of Triple Lakes Creek. I completed this survey. The day cleanup occurred, on this date the water level was very low, exposing oiled areas previously submerged. Area #2 and #3 contained vegetative tar mats, comprised of sticky black oil mixed with dead, dried grasses forming a mat over the lagoon bottom. The oil character code sheet does not have an oil type definition that covers this type of oiling. I used PTVE (where VE means oiled vegetation) for lack of anything better.

DATA ENTRY NOTE

SITE 1 and 5

Thousands of silver salmon fry present

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

ASC NUMBER: 262-10-10040

SURVEY TYPE:

METHOD:

DATE: 07-08/90

START TIME:

STOP TIME:

WAVE EXPOS:

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	WIDTH	M2	%	THICK	PEN	OIL TYPE
SITE 1 b	50m	2m	100	1	1	surface	CT, CV, ST
SITE 2							
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:



'90 cleanup Monitoring

Delia
Windy

ASC NUMBER:	SEGMENT NUMBER:	YR CATALOGED:
LOCATION:		
STREAM NAME:		LATITUDE:
KODIAK K-UNIT:	LOCAL STREAM #:	LONGITUDE:
USGS QUADRANGLE:		LEGAL:
SHORELINE TYPE: <i>Lagoon</i>		

ASC NUMBER: *262-10-10040*
 SURVEY TYPE: *CL*
 METHOD: *F*
 * DATE: *07/08/90*
 START TIME: *1300*
 STOP TIME: *1800*

WAVE EXPOS: *Low*

SAMPLES TAKEN? *Y*

SAMPLE I.D. NUMBERS: *1.90JPB005K*
 4.

TEAM RECORDER: *JEFFREY BARNHART*
 OBSERVERS: *Bill Stillings, Randy Buckley, Tom Tomblin, Wilson, Larry Raymond, Terry Ellsworth,*
 AGENCY (IES): *Howard Overton, ADFG, Exxon, USCG, ADEC, NPS*

PHOTOS TAKEN? *Y*
 Roll #: *90JPB003K* Frames: *13, 14, 15, 16, 17*
 VIDEO TAKEN? *N* Tape Number:
 Counter Start:

	LENGTH	WIDTH	M2	%	THICK	PEN	OIL TYPE
SITE 1	<i>50m</i>	<i>1.5m</i>	<i>75</i>	<i>5</i>	<i>5mm</i>	<i>surface</i>	<i>CT, CV, ST</i>
SITE 2	<i>20m</i>	<i>4m</i>	<i>80</i>	<i>60</i>	<i>3cm</i>	<i>surface</i>	<i>PTVE</i>
SITE 3	<i>300m</i>	<i>1m</i>	<i>300</i>	<i>15</i>	<i>2cm</i>	<i>surface</i>	<i>PTVE, CT, CV, ST</i>
SITE 4	<i>100m</i>	<i>1m</i>	<i>100</i>	<i>CL</i>	<i>1mm</i>	<i>surface</i>	<i>CT, CV, ST</i>
SITE 5	<i>770m</i>	<i>1m</i>	<i>770</i>	<i>LLI</i>	<i>1mm</i>	<i>surface</i>	<i>CT, CV</i>

OVERALL OIL IMPACT: *L*

OIL IN STREAM CHANNEL?

SUBSTRATE	
Bedrock	Granule
Boulder	Sand 35
Cobble 40	Silt 10
Pebble 10	Veget. 5

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

<i>SISA</i>					
SPECIES	<i>BRNB</i>	<i>SSFR</i>			
COUNT	<i>1</i>	<i>Thousands</i>			

COMMENTS: *Bill Stillings and Randy Buckley (Exxon Representatives) did not want to expend the time necessary to clean the oil from this anadromous fish system. The work proceeded after heated discussions, with the removal of 1500 pounds of oil. Portions of the vegetative tar mats were covered with approx. 12 inches of water. Upon completion of the cleanup the water was too turbid to evaluate the extent of remaining oil. The vegetative tar mats generated considerable sheen when removed from the water. Pom Poms and sorbent pads were used to pick up some of the sheen.*

Substrates differ because the substrate % above represents cleanup area. substrate % on next page represents Avg. for entire lagoon area surveyed.

Data Entry Note: site #3 also had oil type of *ST*

Thousands of silver salmon fry present

JEFF,
 THIS MONITORING COVERS TIME OF ANADROMAT YET CRITERIA + SUBSTRATES DIFFER.
 CAN WE COMBINE THESE "SURVEYS" INTO ONE? could be. Use % substrate % from this page

P2. Continuation

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

ASC NUMBER: 262-10-10040
 SURVEY TYPE: CL
 METHOD:
 DATE: 07/08/90
 START TIME:
 STOP TIME:

TEAM RECORDER:
 OBSERVERS:

AGENCY(IES):

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

WAVE EXPOS:

SAMPLES TAKEN?

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

	LENGTH	WIDTH	M2	%	THICK	PEN	OIL TYPE
SITE 16	50m	2m	100	1	1	surface	CT, CU, ST
SITE 2							
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:



ASC NUMBER: 7	SEGMENT NUMBER:	YR CATALOGED:
LOCATION:		
STREAM NAME:		LATITUDE:
KODIAK K-UNIT:	LOCAL STREAM #:	LONGITUDE:
USGS QUADRANGLE:		LEGAL:
SHORELINE TYPE: LAGOON		WAVE EXPOSURE: LOW

ASC NUMBER: 262-10-10040
 SURVEY TYPE: AN (First)
 METHOD: F
 DATE: 5/2/90
 START TIME: 1540
 STOP TIME: 1635

TEAM RECORDER: EDWARD W. WEES
 OBSERVERS: K. SCHOCK, C. LARSON,
 D. YOE, K. KRITCHLOW
 AGENCY(IES): AAFB, EXXON, NPS, WWC

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

SAMPLES TAKEN? Y

SAMPLE I.D. NUMBERS: 1. 90EW0004K2. 3.
 4. 5. 6.

OILING DATA

	LENGTH	WIDTH	M2	%	THICK	FEN	OIL TYPE
SITE 1							PT TB CV ST
SITE 2							
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT: L

OIL IN STREAM CHANNEL? Y

OIL ON BEACH WITHIN 50M OF STREAM MOUTH? Y

SUBSTRATE

Bedrock	Granule
Boulder	Sand
Cobble 25	Silt 40
Pebble 35	Veget.

SPECIES					
COUNT			ACE 1949863		

COMMENTS: BAND OF (PT, TB, CV, ST) / P BEGINNING AT MOUTH
 CONTINUING ON AROUND EAST BANK OF LAGOON.
 BAND IS AT NORMAL LOW TIDAL AREA BUT
 DUE TO MELT OFF IS 12-24" BELOW THE LAGOON
 WATER SURFACE AT LOW TIDE. ONLY SURVEYED 1/3
 OF LAGOON, 1/3 COVERED WITH SNOW, 1/3 UNSURVEYED
 DUE TO TIME CONSTRAINTS. MOUSSE IS FAIRLY WEATHERED
 BUT STILL LETS OFF SHEEN WHEN RUBBED. SHEEN
 DISSIPATES EASILY IN WATER. RECOMMEND FULL
 SSAT / ANADSSAT BE CONDUCTED AT LATER DATE,
 WHEN SNOW COVER IS MELTED AND WATER LEVEL
 IS DOWN. Many patties hard to spot due to water depth and silt cover, would be more visible with out.

lower water. Also recommend manual pickup based on $\frac{1}{3}$ surveyed but not until water goes down and impact is accessible.

Also had TB+ST/S and ST CL/L/SM on bank of lagoon above water level.

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: 5/2/90 15 HIGH TIDE TIMES: 1 21 TEAM RECORDER: E. WEISS
K. SCHOCK, C. LARSON
 4 START TIME: 1540 16 HIGH TIDE HTS: 1 22 OBSERVERS: D. YOE, K. KRITCHLOW
 5 STOP TIME: 1635 17 LOW TIDE TIMES: 1553 23 AGENCY: ADFG/EXXON/NAS/WWC
 6 SEGMENT #: XX500 18 LOW TIDE HTS: 1.9 24 PHOTOS TAKEN: Y N
 7 STATION #: _____ 19 TIDE HT AT SURVEY: _____ Roll #: _____ Frame: _____
 8 K-UNIT: K0912 Ebb Slack Flood Slack 25 VIDEO TAKEN: Y X TAPE#: _____
 9 STAT AREA: _____ 20 USCG QUAD: AFOGNAK C-5 Start: _____ End: _____
 10 LAT: _____ 11 LONG: _____ 26 SAMPLES TAKEN? X N Number
 12 SOURCE: Map Loran C 011 90EW004K
 13 LOCATION: DOUGLAS REEF AREA, AK PENINSULA
 14 DESCRIPTION: ~1.5 NW OF VABM "DARK"

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? X N

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

34 WAVE EXPOSURE: High Moderate Low

35 SUBSTRATE TYPE: Bedrock _____ Boulder _____ Cobble 25
 Gravel 35 Sand _____ Mud/silt 40

36 CATALOGED ANAD. FISH SREAM? X N

37 CATALOG #: 262-10-10040

38 STREAM NAME: TRIPLE LAKES CREEK

39 OIL IN STREAM BED? X N

40 OIL ON STREAM BANKS? X 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 N

44 ANADROMOUS FISH OBSERVATION

Species Aerial Ground

ACE 1949864

COMMENTS: BAND OF (PT, TB, CV, ST) X/P BEGINNING AT MOUTH
CONTINUING ON AROUND EAST BANK OF LAGOON. BAND
IS AT NORMAL LOW TIDAL AREA BUT DUE TO MELT OFF
IS 12-24" BELOW WATERS SURFACE OF LAGOON AT LOW TIDE.
ONLY SURVEYED 1/3 OF LAGOON, 1/3 COVERED WITH SNOW, 1/3 UNSURVEYED
DUE TO TIME CONSTRAINTS. MOUSSE FAIRLY WEATHERED BUT STILL
LETS OFF SHEEN WHEN RUBBED. SHEEN DISSIPATES READILY IN WATER.
(OVER)

FRAME(S)	DESCRIPTION

46 OIL DISTRIBUTION DIAGRAM

RECOMMEND: FULL SSAT / ANADSSAT SURVEY BE CONDUCTED AT LATER DATE, WHEN SNOW COVER MELTED AND WATER LEVEL DOWN, MANY PATCHES HARD TO SPOT DUE TO WATER DEPTH AND SILT COVER WOULD BE MORE VISIBLE WITH LOWER WATER.

ALSO RECOMMEND MANUAL PICKUP BASED ON 1/3 SURVEYED BUT NOT UNTIL WATER GOES DOWN AND IMPACT IS ACCESSABLE.

ALSO HAD TB:ST/S AND ST CT/L/SM ON BANK OF LAGOON ABOVE WATER LEVEL. *D Wein*

90 PRESCREEN

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

ASC NUMBER: 262-10-10040
 SURVEY TYPE: PA
 METHOD: F
 DATE: 4/26/90
 START TIME: 1120
 STOP TIME: 1215

TEAM RECORDER: EDWARD W. WESS
 OBSERVERS: J. BARNHART

AGENCY(IES): ASFG

PHOTOS TAKEN? Y
 Roll #: 90EW002K Frames: 24-30
 VIDEO TAKEN? N Tape Number: /
 Counter Start: /

SAMPLES TAKEN? N

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

OILING DATA

	LENGTH	WIDTH	M2	%	THICK	FEN	OIL TYPE
SITE 1							MS, ST, CT
SITE 2							
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT: VL

OIL IN STREAM CHANNEL? Y

OIL ON BEACH WITHIN 50M OF STREAM MOUTH? Y

SUBSTRATE

Bedrock	5	Granule
Boulder	10	Sand
Cobble	80	Silt
Pebble	5	Veget.

SPECIES					
COUNT					

COMMENTS: OIL STAINED AND SPLATTERED DRIFT/DEBRIS IN UITZ
 ADJACENT TO STREAM MOUTH AND DOWN THE BACKSIDE
 OF BEACH BERM INTO LAGOON. OIL STAIN AND COAT
 ON COBBLES BENEATH WATER'S SURFACE, 18" TO 6"
 FROM BANK. IN COMPLETE SURVEY LAGOON 3/4 ICED
 OVER. RECOMMENDS ANAGOSAT SURVEY.
 BEACH FRONT MOUTH HAS HIGH WAVE EXPOSURE BUT
 LAGOON WHERE OILING IS LOCATED IS LOW EXPOSURE.

+/FISH
 ACE 1949860

ADF&G MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS SS DS TS AVS SCHA MMHS PTA2 REGION: PWS KP, CI K, APMETHOD: Aerial Ground Boat3 DATE: 4/26/9015 HIGH TIDE TIMES: 121 TEAM RECORDER: E. WEISS4 START TIME: 112016 HIGH TIDE HTS: 122 OBSERVERS: J. BARNHART5 STOP TIME: 121517 LOW TIDE TIMES: 100023 AGENCY: ADFG6 SEGMENT #: XX50018 LOW TIDE HTS: -5.624 PHOTOS TAKEN: (Y) N

7 STATION #: _____

19 TIDE HT AT SURVEY: _____

Roll #: 002K Frame: 24-298 K-UNIT: K0912Ebb Slack Flood Slack25 VIDEO TAKEN: Y X TAPE#: _____

9 STAT AREA: _____

20 USCG QUAD: _____

Start: _____ End: _____

10 LAT: _____

11 LONG: _____

26 SAMPLES TAKEN? Y X Number

12 SOURCE: Map Loran

011 _____

13 LOCATION: DOUGLAS REEF AREA ALASKA PENINSULA

Sediment _____

14 DESCRIPTION: _____

Biological _____

Water _____

EXTENT OF OIL

SHORELINE

L W M² %

STREAM

L W M² %

27 SURFACE COVERAGE

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

36 CATALOGED ANAD. FISH STREAM? X N37 CATALOG #: 262-10-10040

28 SURFACE THICKNESS

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

38 STREAM NAME: TRIPLE LAKES CREEK

29 PENETRATION

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

39 OIL IN STREAM BED? X N40 OIL ON STREAM BANKS? X N30 OVERALL OIL IMPACT: N VL L M H41 OIL ON BEACH ADJACENT TO MOUTH? X N
(within 50 meters)31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain

42 OIL WITHIN 1 MILE OF STREAM? Y N

32 OILED DEBRIS? (Y) N

Where: _____

33 SHORELINE TYPE: Headland Low-lying Rocks Beach Cove

43 ANADROMOUS FISH PRESENT? Y N

Lagoon

Marsh

34 WAVE EXPOSURE: High Moderate Low

44 ANADROMOUS FISH OBSERVATION

Species Aerial Ground

35 SUBSTRATE TYPE: Bedrock 5 Boulder 10 Cobble 80Gravel 105 Sand _____ Mud/silt _____

COMMENTS: OIL STAINED & SPLATTERED DRIFT/DEBRIS IN HIGH TIDE LINE
ADJACENT TO MOUTH & DOWN BACKSIDE INTO LAGOON. OIL STAIN
COAT ON COBBLES BENEATH WATERS SURFACE TO 18" TO 6' +
FROM BANK

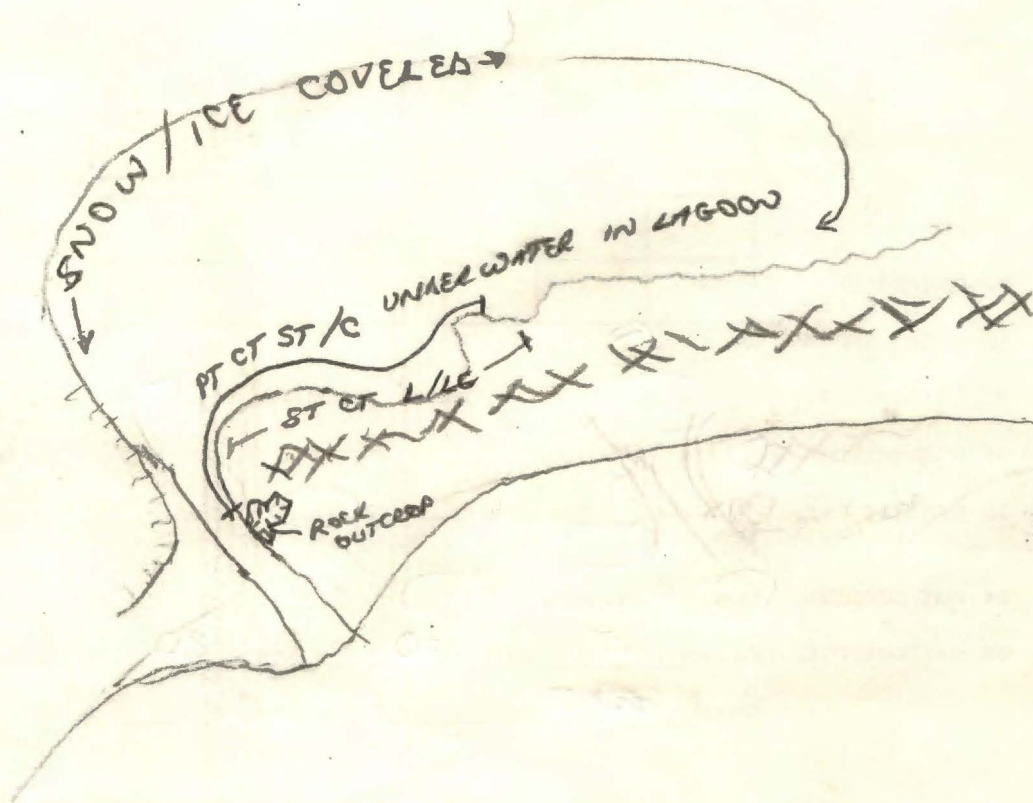
ACE 1949861 →

RECOMMEND: YES, ANADROMOUS SWIM off Barnhart

FRAME(S)	DESCRIPTION
24-29	OIL SPLATTERINGS STAINS, COATING UNDERWATER WITHIN
30	LAGOON. 18" + UNDER WATER.
30	AERIAL VIEW OF MOUTH AREA

46 OIL DISTRIBUTION DIAGRAM

KIUKPUK



= Sample taken
 = Photo frame # and
 shot direction.

ACE 1949862-13

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

ASC NUMBER: 262-10-10040
 SURVEY TYPE: AN (second)
 METHOD: F
 DATE: 6/1/90
 START TIME: 1836
 STOP TIME: 1930

TEAM RECORDER: JEFFREY BARNHART
 OBSERVERS: Dave Lohse, Jim Springer, Mike Goodwin, Tom Callahan,
 Terry Ellsworth, Ray Wauer
 AGENCY (IES): WWC, DNR, NOAA, DEC, NPS

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

SAMPLES TAKEN? N

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

OILING DATA

	LENGTH	WIDTH	M2	%	THICK	FEN	OIL TYPE
SITE 1	8 m	3 m	24	75	1 cm	surface	PT/C
SITE 2	10 m	1 m	10	40	1 cm	surface	PT/C
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT: L

OIL IN STREAM CHANNEL? Y

SUBSTRATE

Bedrock	Granule
Boulder	Sand
Cobble 40	Silt 30
Pebble 30	Veget.

OIL ON BEACH WITHIN 50M OF STREAM MOUTH?

SPECIES	BRNB				
COUNT	1				

COMMENTS: ST, CT, TB/P on Cobble along shore of lagoon and under 1 to 2 feet of water. In addition, two areas, one 3m x 8m (75% coverage) and a second 1m x 10m (40% coverage) contain mats of vegetation and sticky tar in 1-2 feet of water. Oiled debris LV/P/MD. Survey incomplete due to presence of a bear, NPS-RPO decision. Recommend removal of oiled vegetative mats from under the water. Oiled cobble/pebble should be removed from the water, cleaned and replaced. IT is suspected additional oiled vegetative mats are present in the lagoon. The remainder of the lagoon needs to be surveyed. The oiled cobble/pebble/vegetative mats are difficult to locate as a thin film of silt covers them under the water.

second AnadSSAT survey. Incomplete due to bear activity in the area.

ADF&G MULTI-ASSESSMENT DATA FORM

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

2 REGION: PWS KP, CI K, AP

METHOD: Aerial Ground Boat

3 DATE: 6/1/90

15 HIGH TIDE TIMES: 10:00 AM / 10:37 PM

21 TEAM RECORDER: JEFF BARNHART

DAVE Lohse, Jim Springer

4 START TIME: 1836

16 HIGH TIDE HTS: 13.1 / 15.5

22 OBSERVERS: Mike Goodwin, Tom Callahan

Terry Ellsworth Ray Waver

5 STOP TIME: 1930

17 LOW TIDE TIMES: 4:00 AM / 4:06 PM

23 AGENCY: WCC, WCC, DNR, NOAA, DEC, NPS

6 SEGMENT #: 2x500

18 LOW TIDE HTS: 3.9 / 3.4

24 PHOTOS TAKEN: Y (N)

7 STATION #: _____

19 TIDE HT AT SURVEY: _____

Roll #: _____ Frame: _____

8 K-UNIT: K09-12

Ebb Slack Flood Slack

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

9 STAT AREA: 262-10-10040

20 USCG QUAD: Atapnak C-5

Start: _____ End: _____

10 LAT: 58° 43' 24"

11 LONG: 153° 25' 26"

26 SAMPLES TAKEN? Y (N) Number

12 SOURCE: Map Loran Anadcat

Oil _____

13 LOCATION: Douglas Reef Area, AK Peninsula

Sediment _____

14 DESCRIPTION: ~1.5 miles N.W. of VABM "DARK"

Biological _____

Water _____

EXTENT OF OIL

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

36 CATALOGED ANAD. FISH SREAM? (Y) N

37 CATALOG #: 262-10-10040

38 STREAM NAME: Triple Lakes Creek

39 OIL IN STREAM BED? (Y) N

40 OIL ON STREAM BANKS? (Y) N

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

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

31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain

42 OIL WITHIN 1 MILE OF STREAM? Y N

32 OILED DEBRIS? (Y) N

Where: _____

33 SHORELINE TYPE: Headland Low-lying Rocks Beach Cove

43 ANADROMOUS FISH PRESENT? Y (N)

Lagoon Marsh

34 WAVE EXPOSURE: High Moderate Low

44 ANADROMOUS FISH OBSERVATION

Species Aerial Ground

35 SUBSTRATE TYPE: Bedrock _____ Boulder _____ Cobble 40

Gravel 30 Sand _____ Mud/silt 30

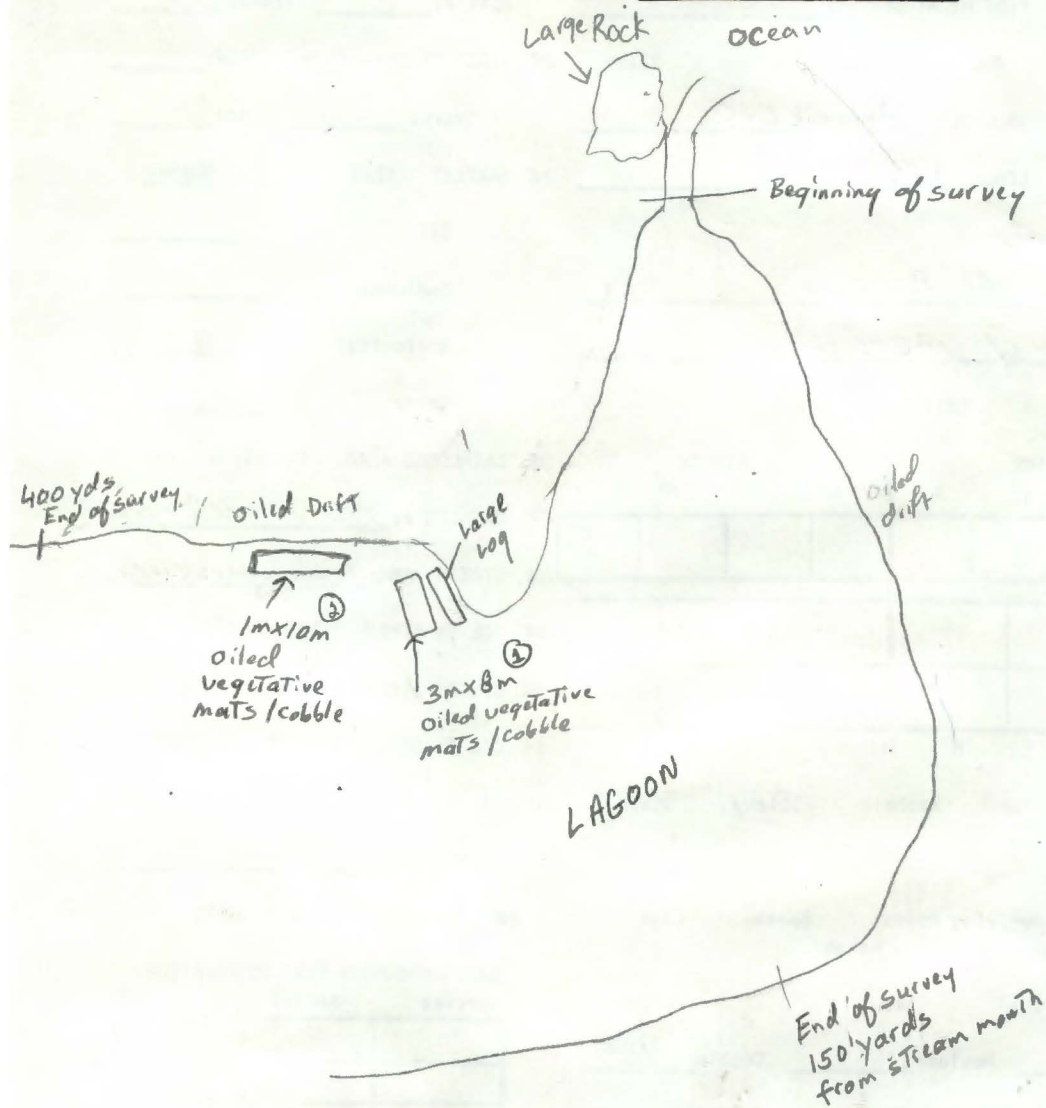
ACE 1949866 +/S

COMMENTS: Oil character: ST TB CT/P on cobble along shore of lagoon and under 1 to 2 ft. of water. In addition two areas, one 3m x 8m (75% coverage) and a second 1m x 10m (40% coverage) contain mats of vegetation and sticky Tar in 1-2 feet of water. Oiled debris: LV/P/MD. Survey incomplete due to presence of bear. NPS, RPO decision. Recommend removal of oiled vegetative mats from under the water. Oiled cobble/pebble should be removed from the water cleaned and replaced. IT is suspected additional oiled vegetative mats are present in the lagoon. The remainder of the lagoon needs to be surveyed. The oiled cobble/pebble/vegetative mats are difficult to locate as a thin film of silt covers them under the water. ADF&G Habitat Div. Personnel need to be present during cleanup to locate the problem areas.

FRAME(S)

DESCRIPTION

46 OIL DISTRIBUTION DIAGRAM

NOT To scale

= Sample taken
 = Photo frame # and
 shot direction.

ACE 1949867

FIELD SHORELINE COMMENT SHEET

Anadssat

262-10-10040
SEGMENT ST 1 K09-12 4500 SUBDIVISION: Triple Lakes Creek DATE 6/2/90

ADFG

NAME JEFFREY P. BARNHART SIGNATURE Jeffrey P Barnhart☐ NO TREATMENT RECOMMENDED
COMMENTS☒ TREATMENT SUGGESTED

See ADF&G Anadssat Form for complete Details.

Recommend^{manual} removal of oiled vegetative mats from under the water.
Oiled cobble / Pebble should be removed from the water cleaned and replaced.

The oiled cobble / pebble / vegetative mats are difficult to located as a thin film of silt covers them under the water.

ADFG Habitat Division personnel need to be present during cleanup to locate the problem areas.

A complete survey needs to be conducted as it is suspected additional oiled vegetative mats / oiled cobble are present in this low energy Lagoon.

Jeff Barnhart

90 cleanup Monitoring

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

ASC NUMBER: 262-10-10040

SURVEY TYPE: CL

METHOD: F

* DATE: 07/08/90

START TIME: 1300

STOP TIME: 1800

WAVE EXPOS: Low

SAMPLES TAKEN? Y

SAMPLE I.D. NUMBERS: 1. 90JPB005K

4.

2.

5.

3.

6.

TEAM RECORDER: JEFFREY BARNHART

OBSERVERS: Bill Stillings, Randy Buckley, Tom Tomblin,
Wilson, Larry Raymond, Terry Ellsworth,

AGENCY(IES): Howard Overton,
ADFG, Exxon, USCG, ADEL, NPS

PHOTOS TAKEN? Y

Roll #: 90JPB003K Frames: 13, 14, 15, 16, 17

VIDEO TAKEN? N Tape Number:

Counter Start:

	LENGTH	WIDTH	M2	%	THICK	PEN	OIL TYPE
SITE 1	50m	1.5m	75	5	5mm	surface	CT, CV, ST
SITE 2	20m	4m	80	60	3cm	surface	PTVE
SITE 3	300m	1m	300	15	2cm	surface	PTVE, CT, CV, ST
SITE 4	100m	1m	100	CL	1mm	surface	CT, CV, ST
SITE 5	770m	1m	770	LLI	1mm	surface	CT, CV

OVERALL OIL IMPACT: L

OIL IN STREAM CHANNEL?

OIL ON BEACH WITHIN 50M OF STREAM MOUTH? Y

SUBSTRATE

Bedrock	Granule
Boulder	Sand 35
Cobble 40	Silt 10
Pebble 10	Veget. 5

SPECIES	BRNB	SSFR			
COUNT	1	Thousands			

COMMENTS: Bill Stillings and Randy Buckley (Exxon Representatives) did not want to expend the time necessary to clean the oil from this anadromous fish system. The work proceeded after heated discussions, with the removal of 1500 pounds of oil. Portions of the vegetative tar mats were covered with approx. 12 inches of water. Upon completion of the cleanup the water was too turbid to evaluate the extent of remaining oil. The vegetative tar mats generated considerable sheen when removed from the water. Pom Poms and sorbent pads were used to pick up some of the sheen.

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

ASC NUMBER: 262-10-10040
 SURVEY TYPE: CL
 METHOD:
 DATE: 07/08/90
 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.
 4.

2.
 5.

3.
 6.

	LENGTH	WIDTH	M2	%	THICK	PEN	OIL TYPE
SITE 1	50m	2m	100	1	1	surface	CT, CV, ST
SITE 2							
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:

EVOS CLEANUP MONITORING, 1990.

REGION: Alaska Peninsula

REPRESENTATIVES

K-UNIT: K9-12

Exxon: Bill Stillings

SEGMENT: XX500

USCG: Larry Raymond

LOCATION: 9.5 mi. South of Douglas Crk Lagoon

DEC: Terry Ellsworth

STREAM NAME: Triple Lakes creek

NPS: Howard Overton

ANAD. STREAM CAT. # 262-10-10040

USFWS: N/A

ANAD. FISH STREAM PERMIT ISSUED: 7/8/90 ADFG: Jeff Barnhart

DATE(S) WORKED: 7/8/90

OTHER: Buckley, Tomblin, Wilson (Exxon)

SQUAD # 9 Halo

HOURS WORKED: 5

SQUAD SIZE: 6

TOTAL MAN HOURS WORKED: 30

NUMBER OF BAGS COLLECTED: 40

POUNDS OF OIL/OILED SEDIMENT REMOVED: 1500 from halo scales.

TREATMENT TECHNIQUES: MANUAL REMOVAL ☒ BIOREMEDIATION

OTHER

OIL BANDS

DEMOB DATE: 7/8/90

L 50m W 1.5m D 5mm m² 75 %oil cover 5 V

OIL SAMPLE # 90JPB005K

L 20m W 4m D 3cm m² 80 %oil cover 60 V

OIL TYPE: MS, PT, TB, CT, CV, ST

L 300m W 1m D 2cm m² 300 %oil cover 15 V

SUBSTRATE TYPE: Cobble 40%

L 100m W 1m D 1mm m² 100 %oil cover <1 V

Sand/silt 50% Gravel 10%

L 770m W 1m D 1mm m² 770 %oil cover <1 V

L 50m W 2m D 1mm m² 100 %oil cover 1% V

PHOTOLOG

Roll #

FRAME #

DESCRIPTION

90JPB003K

13

work crew wiping oiled cobble

90JPB003K

14

Previously submerged oil now exposed due to low water level.

90JPB003K

15

Previously submerged oil now exposed due to low water level.

90JPB003K

16

Submerged oil in stream

90JPB003K

17

submerged Tarmat being removed from stream

ACE 1949874 +151FF

PROBLEMS: Bill Stillings and Randy Buckley, Exxon representatives did not want to expend the time necessary to clean the oil from this system. The work proceeded however, with the removal of 1500 pounds of oil. Portions of the vegetative tar mats were covered with approx 12 inches of water. Upon completion of the cleanup the water was too turbid to evaluate the extent of remaining oil.

OBSERVATIONS: on this date the water level was very low, exposing ^{portions of} previously submerged vegetative tar mats, tar patties, mousse. This allowed a comprehensive survey of the system. Three other attempts had been made earlier in the year to assess this system. Water levels precluded a complete survey on ^{each of} these occasions.

The vegetative tar mats generated considerable sheen when removed from the water. Pom Poms and sorbent pads were used to pick up some of the sheen.

SIGNED: Jeff Bonhart.

Jeff

Actual weights
from helicopter scales
Except where Est. note
Noted.

AC: 357 CH TYPE: B212 DATE: 11/1/90
 PIC: Fulkerson SIC: Strain BASE: ADQ

ADDITIONAL CREW: _____ ASSIGNMENT: _____ TRIP NO: _____

CUSTOMER: EXXON BIG BAY 220 KUKAKI 75
KUKAKI 75

TRIP NO	LEAVE	TIME	ARRIVE	TIME	FLIGHT TIME	PASS	CARGO	AC WT	MAX TO WT	FWD C.G.	AFT C.G.	PILOT INT OR AC CG
1	ADQ	0924	CAPE DOUG	1005	44	2	-	11303	11200	142.7	142.7	KOY
2		1105	Buch	1110	05	2	-	11303	11200	131.7	1430	KOY
3		1110	Albata				1100X10433	1300	10633	134.0	1420	137.4
			Albata				1100	10400		"	"	"
			Albata				1500	10800		"	"	"
			Albata				1100	10300		"	"	"
			Albata				1200	10900		"	"	"
4	CAPE DOUG	1208	Big Bay	1238	30	2	-	9103		130.7	1430	KOY
5		1318	Triple	1338	20	2	-	10503		133.0	142.5	KOY
			Triple				900	10200		131.0	142.0	138.6
			Triple				600	9800		134.0	142.0	138.4
7		1420	CHINIAK	1437	17	2	-	9903		131.9	143.0	KOY
8	CHINIAK	1437	CHINIAK			-	900	10700		134.0	142.5	137.4
			CHINIAK				400	9600		"	"	"
			CHINIAK				500	10000		"	"	"
9		1500	Albata	1500	30	-	1000	10900		"	"	"
			KUKAKI	1543	13	-	8133	8133		130	143	KOY
			KUKAKI	1600	14	-	9833	9833		132.8	143.0	KOY
11	CHINIAK	1618	CHINIAK	1635	17	6	1000	10900	11700	133.6	142.0	KOY
12	CHINIAK	1635	CHINIAK	1745	1+10	8	LOADS X 10000 = 8000			134.0	142.0	137.4
13	"	1745	Albata	1752	07	1	-	8868		130.2	143.0	KOY
14	"	1852	KUKAKI	1815	23	-	-	9533		130	143	KOY
15	KUKAKI	1821	ADQ	1906	45	-	-	8933		130.3	143.0	KOY
							8.6	8138	17	20100		
							7.53	7453				
							45	14453				
							8138	14353				
							11.5	1121				
							7.53	7453				
							45	14453				
							8138	14353				
							11.5	1121				

FIELD SHORELINE COMMENT SHEET

Triple Lakes Creek

SEGMENT ST 1 K-912/XX500 SUBDIVISION: Stream # 262-10-10040 DATE 6/1/90

~~NORA~~
~~USCG~~

NAME Tom Callahan SIGNATURE Tom Callahan

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED

COMMENTS

The storm berm has moved and partially blocked the stream mouth, causing the lagoon level to rise. This occurred after ~~mousse~~ mousse floated in and settled along an edge of the lagoon. As a result, mousse was found incorporated with flooded vegetation in 2-3 ft of water. This mousse/vegetation mixture is recoverable and is still able to ~~create~~ ^{cause} a sheen when disturbed. Suggest this be removed prior to salmon spawning in the area containing mousse.

~~ADEC~~

NAME Terry Ellsworth SIGNATURE Terry Ellsworth

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED

COMMENTS

Oil occurs as cv-ct-st on cobbles, driftwood and trash and as a mousse-vegetation mat within the lagoon. The oiled cobbles and ms-veg. mat are presently submerged under 30 cm of water ~~to~~ 3m from the present shoreline. A thin film of silt covers the area making it difficult to see. Water level in the lagoon is not influenced by daily tidal action. Survey was not completed due to a bear on the nearby beach. Manual removal of ms-veg mat and driftwood and cleaning of heavy coat-cover on cobbles is recommended before fish spawn. If assessment is not completed before treatment, it should be completed before crew finishes in the area.

~~LAND MANAGER~~

NAME N.A. SIGNATURE _____

☐ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED

COMMENTS

ACE 1949876 +/S

OPERATIONS FIELD NOTES

See Back for instructions

SEGMENT ID K-912/XX500
SUBDIVISION LETTER Triple Lakes Creek
ANNOTATED MAP INCLUDED Y (N)

DATE 6/1/90
NAME J. Springer
TEAM # 19

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

SUBSURFACE OIL

Other (Describe)?	

TARMATS	Quantities in Meters			Treatment Rec			# of Bags	Mandays Required	
	Length	Width	Thick(cm)	None	Breakup	Remove		Breakup	Remove
Area #1	8	3	3			X	100		10
Area #2									
Area #3									
Area #4									
Sporadic Mats									

MANUAL PICKUP	Type of Debris			In Meters		# of Bags	Pickup	Manday
	Mousse Tarballs	Oiled Veget	Cleanup Debris	Length	Width		Y/N	Estimate
"Pocket" #1	TB			1	10	20	Y*	
"Pocket" #2								
"Pocket" #3								
Random/Continuous								

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

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

GENERAL

Wave Exposure H/M/L

Snow covering 0 % of the Supratidal Zone?

Access Limitations:

Snare Boom/Pom Poms Recommended? No

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

COMMENTS:

Only 350m was surveyed due to presense of a bear.
The remainder should be surveyed.
*I suggest removing, wiping, and replacing oiled cobbles in "pocket"

SHORELINE OILING SUMMARY

REVISION NO. 03/22/90

OG J. Springer USEC NOAA T. Callahan SEGMENT STI K-912/XX500
 BIO D. Lohse LAND REP J. Barnhart SUBDIVISION A / Stream 262-10-10040
 EXXON Park Service R. Waver ADEC T. Ellsworth TIME 18:20 to 19:30
 TEAM NO.: 19 TIDE LEVEL: +2 to +4 DATE 06/01/90
 EST. SUBDIVISION LENGTH: 900 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: S to N
 SURFACE SEDIMENTS: R 60 % B 10 % C 20 % P 10 % G 20 % S 10 % M 20 % V 20 %
 SLOPE: Lang 100 % Hang 0 % Vert 0 % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W 550 m M 8 m N 10 m VL 100 m NO 232 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR						IMPACTED ZONES			
	/C	/B	/P	/S	SBL BR	DBL RW	GY SL	DBR TL	LBR	SU	UI	M	U	
ASPHALT PAVEMENT														
POOLED														
COVER														
COAT														
STAIN														
MOUSSE		X						X		X				
PATTIES														
TARBALLS			✓	X		X				X				
FILM														
NO OIL											X			

PAVEMENT: H F S _____ sq. m by _____ cm

PATTIES / TARBALLS 50 BAGSNEAR SHORE SHEEN? (NO) BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs	X		
Vegetation	X		
Trash	X		
Debris			

DEBRIS COLLECTED
☐ YES ☒ NO

TYPE _____

#BAGS _____

Photographs:

Roll No. _____

Frames _____

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CM)	BELOW		OIL / FILM COLOR						PIT ZONE				A N A	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UO	UC	SBL BR	DBL RW	GY SL	DBR TL	LBR	SU	UI	M	LI			
							-														
							-														
							-														
							-														
							-														
							-														

COMMENTS Oil is submerged in lagoon. "Tarballs" occur as black spatters clinging to cobbles. "Mousse" occurs in matts clumped together with vegetation.

Lagoon is in supratidal zone isolated from daily tidal action. Lower and mid-intertidal zones were not surveyed.

ACE 1949878

Anadssat

262-10-10040

SEGMENT ST 1 K09-12 +X500 SUBDIVISION: Triple Lakes Creek DATE 6/2/90

ADFG

NAME JEFFREY P. BARNHART SIGNATURE Jeffrey P Barnhart☐ NO TREATMENT RECOMMENDED
COMMENTS☒ TREATMENT SUGGESTED

See ADF&G Anadssat Form for complete Details.

Recommend^{manual} removal of oiled vegetative mats from under the water.
Oiled cobble / Pebble should be removed from the water cleaned and replaced.

The oiled cobble / pebble / vegetative mats are difficult to located as a thin film of silt covers them under the water.

ADFG Habitat Division personnel need to be present during cleanup to locate the problem areas.

A complete survey needs to be conducted as it is suspected additional oiled vegetative mats / oiled cobble are present in this low energy Lagoon.

Jeff Barnhart

SKETCH MAP

SEGMENT ST/ K-912/xx500

SUBDIVISION A

DATE 06/01/90

Stream 262-10-10040
Tripple Lakes Creek.

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

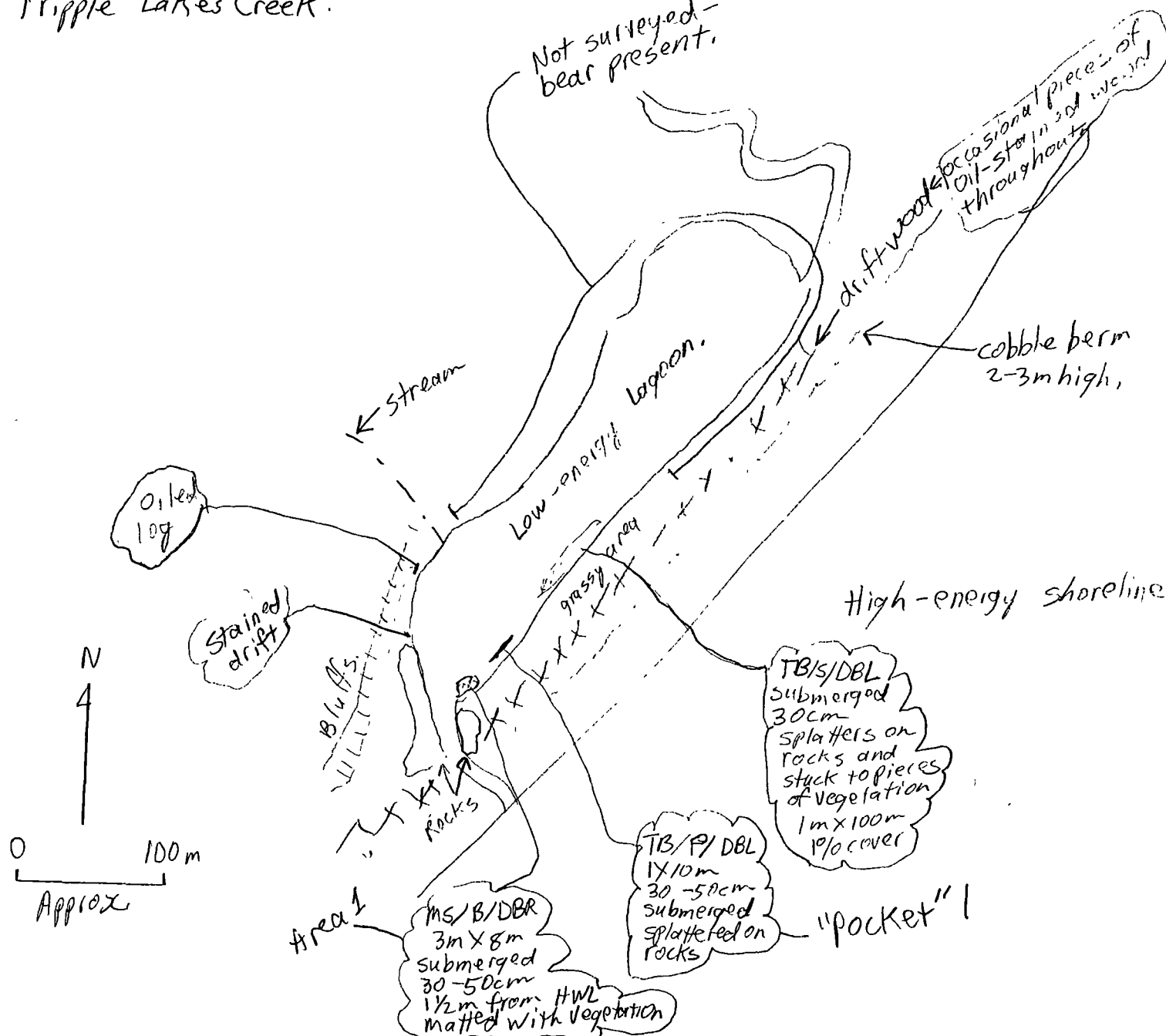
Oil Vegetation

1 ●→

Photo location, direction, and number

ACE 1949880

Oil Character Length (m): AP _____ PO _____ CV _____ CT _____ ST _____ MS 8 PT _____ TB 110 FL _____ NO 232 U 550



GENERAL DATA

SEG ID: k-912/xx500 SUBDIV: ^{Stream} 262-10-10010 TEAM: 19 SURVEY DATE: 6-1-90
PAVEMENT: CHAR - AREA 0 THICKNESS 0 TARBALLS 50
OILED: LGS SM VEG SM TRH SM DBR - WAVE EXP: LW X MD - HG -
FAX RCVD: - DT: - AGENCY DISAGREE: -
EST SUBDIV LGTH: 900 OIL CATEGORY: W 0 M 8 N 10 VL 100 NO 232 U 550

SURFACE DATA

SURFACE SEDIMENT: BRK 0 BLD 0 COB 0 PEB 60 GRN 0 SAN 0 MUD 10 VEG 20

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

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

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

CHAR #: 4 OIL CHAR: ND OIL DIST: CONT - BRKN - PTCH - SPLH -
OIL CLR: - FILM CLR: - TIDAL ZONE: SU - UI X MI - LI -

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

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

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

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

ADF&G MULTI-ASSESSMENT DATA FORM

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

2 REGION: PWS KP, CI K AP

METHOD: Aerial Ground Boat

3 DATE: 6/1/90

15 HIGH TIDE TIMES: 10:00 AM / 10:37 PM

21 TEAM RECORDER: JEFF BARNHART
DAVE Lohse, Jim Springer

4 START TIME: 1836

16 HIGH TIDE HTS: 13.1 15.5

22 OBSERVERS: Mike Goodwin, Tom Callahan
Terry Ellsworth Ray Waver

5 STOP TIME: 1930

17 LOW TIDE TIMES: 4:00 AM / 4:06 PM

23 AGENCY: WCC, WCC, DNR, NOAA, DEC, NPS

6 SEGMENT #: XX500

18 LOW TIDE HTS: 3.9 3.4

24 PHOTOS TAKEN: Y (N)

7 STATION #:

19 TIDE HT AT SURVEY:

Roll #: Frames:

8 K-UNIT: K09-12

Ebb Slack Flood Slack

25 VIDEO TAKEN: Y (N) TAPE#:

9 STAT AREA: 262-10-10040

20 USCG QUAD: Alagnak C-5

Start: End:

10 LAT: 58°43'24"

11 LONG: 153°25'26"

26 SAMPLES TAKEN? Y (N) Number

12 SOURCE: Map Loran Anadcat

Oil

13 LOCATION: Douglas Reef Area, AK Peninsula

Sediment

14 DESCRIPTION: ~1.5 miles N.W. of VABM "DARK"

Biological

Water

EXTENT OF OIL

36 CATALOGED ANAD. FISH SREAM? (Y) N

37 CATALOG #: 262-10-10040

38 STREAM NAME: Triple Lakes Creek

39 OIL IN STREAM BED? (Y) N

40 OIL ON STREAM BANKS? (Y) N

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

42 OIL WITHIN 1 MILE OF STREAM? Y N

Where:

43 ANADROMOUS FISH PRESENT? Y (N)

44 ANADROMOUS FISH OBSERVATION

Species Aerial Ground

ACE 1949882

	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 40

Gravel 30 Sand Mud/silt 30

COMMENTS: Oil character: ST TB CT/P on cobble along shore of lagoon and under 1 to 2 ft. of water. In addition

Two areas, one 3m x 8m (75% coverage) and a second 1m x 10m (40% coverage) contain mats of vegetation and sticky

Tar in 1-2 feet of water. Oiled debris: LV/P/MD. Survey incomplete due to presence of bear. NPS, RPO decision.

Recommend removal of oiled vegetative mats from under the water. Oiled cobble/pebble should be removed from

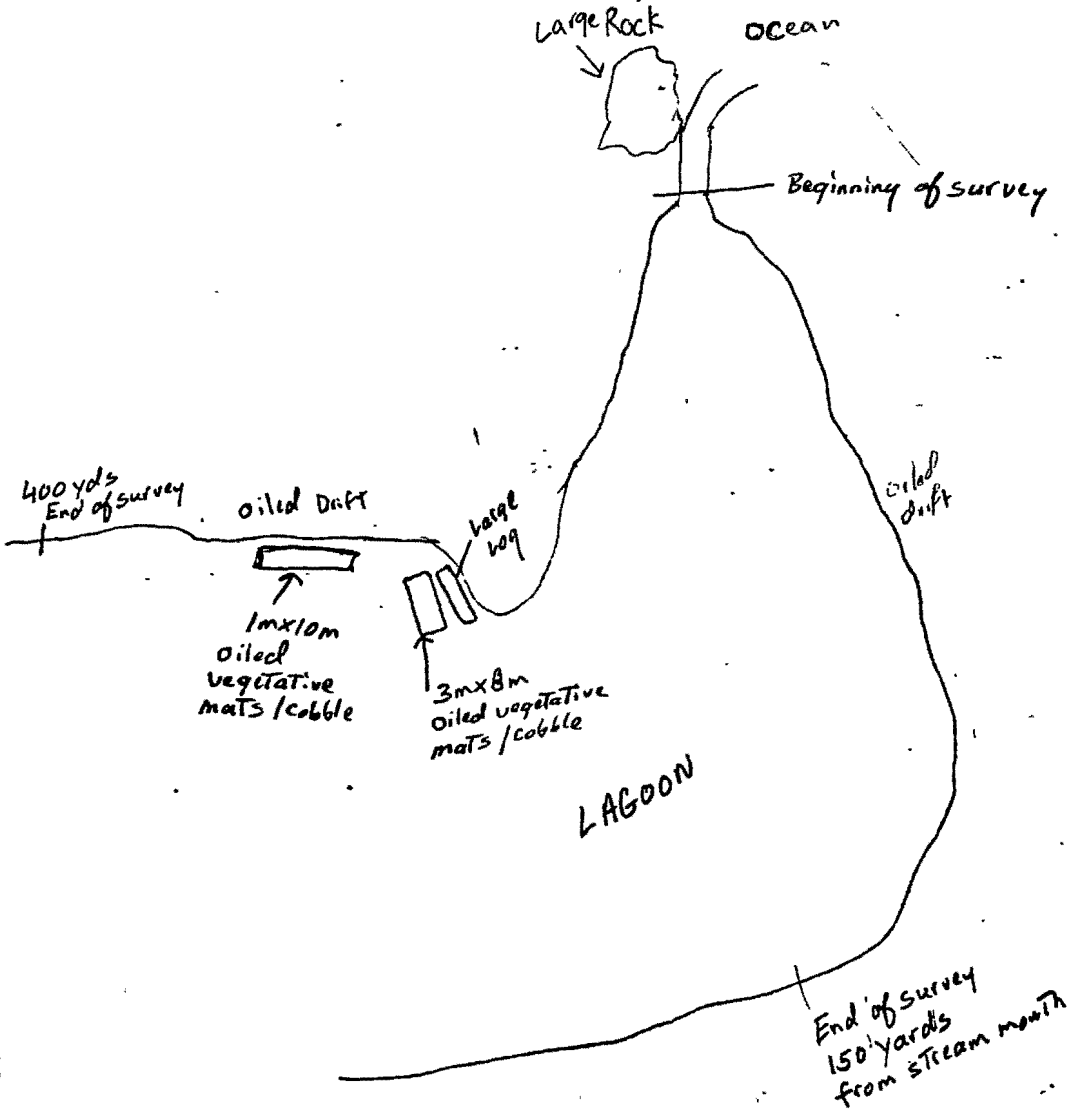
the water cleaned and replaced. IT is suspected additional oiled vegetative mats are present in the lagoon.

The remainder of the lagoon needs to be surveyed. The oiled cobble/pebble/vegetative mats are difficult to locate as a thin film of silt covers them under the water. ADF&G Habitat Div. Personnel need to be present during cleanup to locate the problem areas.

FRAME(S)

DESCRIPTION

48 OIL DISTRIBUTION DIAGRAM



= Sample taken
 = Photo frame # and
 shot direction.

ACE 1949883-18

This is the only complete survey of Triple Lakes Creek. I completed this the day of the cleanup. gfb

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: 7/8/90

15 HIGH TIDE TIMES: 0304 1 1618

21 TEAM RECORDER: J. BARNHART

4 START TIME: 1245

16 HIGH TIDE HTS: 18.1 1 16.9

22 OBSERVERS: Terry EIBsworth, Bill Stillings

5 STOP TIME: 1800

17 LOW TIDE TIMES: 0942 1 2148

23 AGENCY: ADEL Exxon USCG

6 SEGMENT #: XX500

18 LOW TIDE HTS: -1.8 1 3.8

24 PHOTOS TAKEN: (Y) N

7 STATION #: _____

19 TIDE HT AT SURVEY: _____

Roll #: 90JPBC03K Frame: 13 14 15 16 17

8 K-UNIT: KC9-12

Ebb Slack Flood Slack

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

9 STAT AREA: 262-10

20 USCG QUAD: Afognak C-5

Start: _____ End: _____

10 LAT: 58 43 24

11 LONG: 153 25 26

26 SAMPLES TAKEN? (Y) N Number

12 SOURCE: Map Loran Anad Catalog

011 90JPBC05K

13 LOCATION: Douglas Reef Area, Alaska Peninsula

Sediment _____

14 DESCRIPTION: _____

Biological _____

Water _____

EXTENT OF OIL

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

36 CATALOGED ANAD. FISH STREAM? (Y) N

37 CATALOG #: 262-10-10040

38 STREAM NAME: Triple Lakes Creek

39 OIL IN STREAM BED? (Y) N

40 OIL ON STREAM BANKS? (Y) N

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

42 OIL WITHIN 1 MILE OF STREAM? Y N

Where: _____

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 50

Gravel 10 Sand _____ Mud/silt 40

44 ANADROMOUS FISH OBSERVATION		
Species	Aerial	Ground
<u>Coho Fry</u>		<u>Numerous</u>

COMMENTS: C: This date the water level was very low exposing and allowing access to oiled areas previously submerged. Area #1 50m x 1.5m CT, CV, ST on cobble 59% oil cover. Thickness 5mm. Area #2 20m x 4m vegetative Tar/mousse mat, sticky black oil. 60% oil cover Thickness Avg 3cm. Area #3 300m x 1m patchy oiled vegetative mat, Tar patties/patches plus CV, CT and ST. Thickness 2cm. Area #4 100m x 1m sporadic CT, CV and ST Thickness 1mm. Area #5 770m x 1m CT, CV and ST 44% Thickness 1mm. Area #6 50m x 2m CT, CV, ST 10% oil cover.

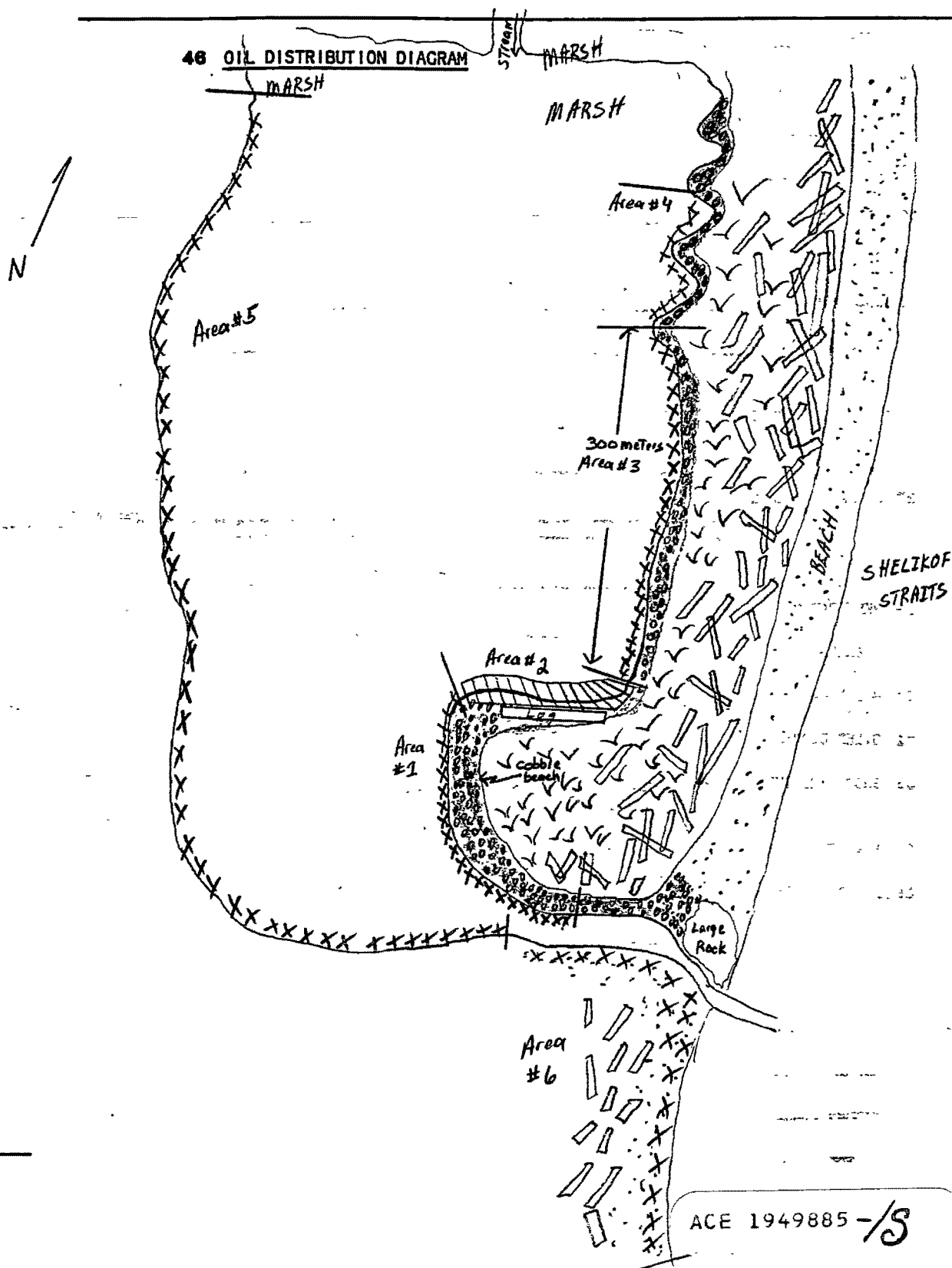
ACE 1949884 +/S

FRAME(S)

DESCRIPTION

13	work crew wiping oiled cobble
14	Previously submerged oil now exposed due to low water level
15	Same as #14
16	Submerged o.i. in stream
17	Submerged Tarmat being removed from stream

46 OIL DISTRIBUTION DIAGRAM



= Sample taken
 = Photo frame # and
 shot direction.

ACE 1949885 -13

844 yds 5280 yds 25 m
" 2534 feet 3 m 1/4" = 1 mile
770 m 2746 6.25 = 1 mile. 6.35 = 1/4" = 1 m

Area #2
20 m long x 4 m wide. - 60% oil cover Thickness Avg 3 cm
20 m long x 18 m wide

Area #1 50 m long x 15 m wide CT, CV, ST on cobble 5% oil cover
Thickness 5 mm

Area #3 300 m long x 1 m wide patchy 1% to 5% oil cover.

oiled vegetative mats, Tar patches / patches + ST, CV, CT Thickness 2 cm

Area #4 Sporadic CT, CV, ST 100 meters x 1 m

Area #5 Sporadic CT, CV, ST 770 m x 1 m 66%

Area #6 CT, CV, ST, 50 m x 2 m 1%

Need To put my sketch with this form.

Bill needs to know

ANADROMOUS FISH STREAM EVALUATION

How much boom tubing along

Triple Lakes Creek

SEGMENT ST/K09-12 - XA500 STREAM NO: 262-10-10040 DATE 6/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

- 1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
 - 1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
 - SS Shorebird/waterfowl concentration (4/25 to 5/15)
- See attached Ecological Constraint sheet for specific constraints and contracts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

See above.

ARCHAEOLOGICAL CONSTRAINT: Consultation and inspection with an Exxon archaeologist is required prior to treatment. Specific on-site monitoring requirements will be determined at that time.

>>> PHONE 564-3274 (Anchorage) OR 229-1508 (24 hrs.) <<<

SHPO SIGNATURE: *Charles E. Holmes* DATE: June 29, 1990

Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

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

COMMENTS: Recommended treatment is manual removal of mousse, patties and oiled debris as shown on attached sketch map.

TAG COMMENTS: SURVEY AREA NOT PREVIOUSLY SURVEYED

TAG APPROVAL DATE: 6/18/90

ADEC *Ramona R. Brown*
EXXON *Amey TEAL*
NOAA *Joyce Talbot*
USCG *G.A. NEIDER*

FOSC: *A. Jernoff* DATE: 6/30/90

VIA FAX 2:00PM
7/5/90

FIELD SHORELINE COMMENT SHEET

Triple Lake Creek

SEGMENT ST 1 K-912/XX500 SUBDIVISION: Stream # 262-10-10040 DATE 6/1/90

~~NORA~~

~~USGS~~

NAME

Tom Callahan

SIGNATURE

Tom Callahan

☐ NO TREATMENT RECOMMENDED

☒ TREATMENT SUGGESTED

COMMENTS

The storm berm has moved and partially blocked the stream mouth, causing the lagoon level to rise. This occurred after mouse mousse floated in and settled along an edge of the lagoon. As a result, mousse was found incorporated with flooded vegetation in 2-3 ft of water. This mousse/vegetation mixture is recoverable and is still able to ~~create~~ ^{cause} a sheen when disturbed. suggest this be removed prior to salmon spawning in the area containing mousse.

~~ADEC~~

NAME

Terry Ellsworth

SIGNATURE

Terry Ellsworth

☐ NO TREATMENT RECOMMENDED

☒ TREATMENT SUGGESTED

COMMENTS

Oil occurs as cv-ct-st on cobbles, driftwood and trash and as a mousse-vegetation mat within the lagoon. The oiled cobbles and ms-veg. mat are presently submerged under 30 cm of water at 3m from the present shoreline. A thin film of silt covers the area making it difficult to see. Water level in the lagoon is not influenced by daily tidal action. Survey was not completed due to a bear on the nearby beach. Manual removal of ms-veg mat and driftwood and cleaning of heavy coat-cover on cobbles is recommended before fish spawn. If assessment is not completed before treatment, it should be completed before crew finishes in the area.

~~LAND MANAGER~~

N.A.

NAME

SIGNATURE

☐ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

COMMENTS

FIELD SHORELINE COMMENT SHEET

262-10-12040

SEGMENT ST 1K49-12 4456E SUBDIVISION: Triple Lakes Creek DATE 6/2/90**ADFG**NAME JEFFREY P. BARNHART

SIGNATURE

Jeffrey P. Barnhart☐ NO TREATMENT RECOMMENDED☒ TREATMENT SUGGESTED

COMMENTS

See ADF&G Analysis Form for complete Data. Is.

Recommend ^{manual} removal of oiled vegetative mats from under the water. Oiled cobble / Pebble should be removed from the water cleaned and replaced.

The oiled cobble / pebble / vegetative mats are difficult to located as a thin film of silt covers them under the water.

ADFG Habitat Division personnel need to be present during cleanup to locate the problem areas.

A complete survey needs to be conducted as it is suspected additional oiled vegetative mats / oiled cobble are present in this low energy Lagoon.

Jeff Barnhart

ADF&G MULTI-ASSESSMENT DATA FORM

SURVEY TYPE: BS (SS) DS TS AVS SCHA MMS PTA2 REGION: PWS KP, CI K (AP)METHOD: Aerial Ground Boat

3 DATE: 6/1/90 16 HIGH TIDE TIMES: 10:00 AM / 10:37 PM 21 TEAM RECORDER: JEFF BARNHART
 4 START TIME: 1836 19 HIGH TIDE HTS: 13.1 1 15.5 22 OBSERVERS: Mike Goodwin, Tom Callahan
 5 STOP TIME: 1930 17 LOW TIDE TIMES: 4:00 AM / 4:06 PM 23 AGENCY: WCC, WCC, DNR, NOAA, DEC, NPS
 6 SEGMENT #: 2x500 18 LOW TIDE HTS: 3.9 1 3.4 24 PHOTOS TAKEN: Y (N)
 7 STATION #: _____ 19 TIDE HT AT SURVEY: _____ Roll #: _____ Frames: _____
 8 K-UNIT: K09-12 Ebb Slack Flood Slack 25 VIDEO TAKEN: Y (N) TAPE#: _____
 9 STAT AREA: 262-10-4046 20 USCG QUAD: Atopnak C-5 Start: _____ End: _____
 10 LAT: 58° 43' 24" 11 LONG: 153° 25' 26" 26 SAMPLES TAKEN Y (N) Number
 12 SOURCE: Map Loran Anadcat 011 _____
 13 LOCATION: Douglas Reef Area, AK Peninsula Sediment _____
 14 DESCRIPTION: ~1.5 miles N.W. of VABM "DARK" 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 40
 Gravel 30 Sand _____ Mud/silt 30

36 CATALOGED ANAD. FISH STREAM? (Y) N
 37 CATALOG #: 262-10-10040
 38 STREAM NAME: Triple Lakes Creek
 39 OIL IN STREAM BED? (Y) N
 40 OIL ON STREAM BANKS? (Y) N
 41 OIL ON BEACH ADJACENT TO MOUTH? Y (N)
 (within 50 meters)
 42 OIL WITHIN 1 MILE OF STREAM? Y N
 Where: _____

43 ANADROMOUS FISH PRESENT? Y (N)

44 ANADROMOUS FISH OBSERVATION

Species	Aerial	Ground

ACE 1949890

COMMENTS: Oil character: ST TB CT/P on cobble along shore of lagoon and under 1 to 2 ft. of water. In addition

Two areas, one 3m x 8m (75% coverage) and a second 1m x 10m (40% coverage) contain mats of vegetation and sticky

Tar in 1-2 feet of water. Oiled debris: LV/P/MD. Survey incomplete due to presence of bear. NPS, RPO decision.

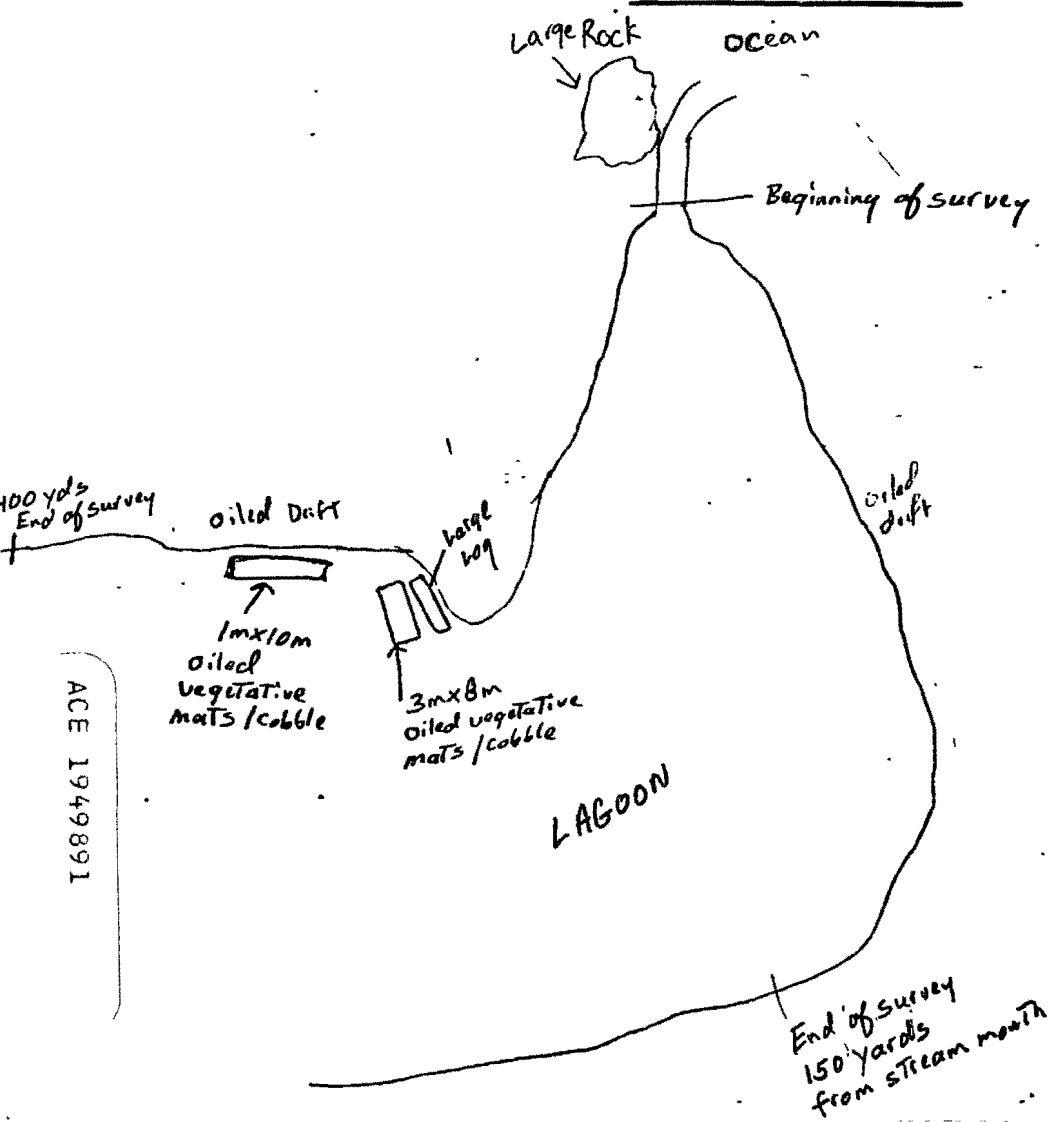
Recommend removal of oiled vegetative mats from under the water. Oiled cobble/pebble should be removed from

The water cleaned and replaced. IT is suspected additional oiled vegetative mats are present in the lagoon.

The remainder of the lagoon needs to be surveyed. The oiled cobble/pebble/vegetative mats are difficult to locate as a thin film of silt covers them under the water. ADF&G Habitat Div. Personnel need to be present during cleanup to locate the problem areas.

DESCRIPTION

46 OIL DISTRIBUTION DIAGRAM



NOT TO SCALE

ACE 1949891

SHORELINE OILING SUMMARY

REVISION NO. 03-22-90

OG J. Springer USCG NOAA T. Callahan SEGMENT ST/ K-712/xx503
 BIO D. Lohse LAND REP J. Barabart SUBDIVISION A/Stream 262-10-1004
~~EXXON~~ Pack Service R. Waver ADEC T. Ellsworth TIME 18:20 to 19:30
 TEAM NO.: 19 TIDE LEVEL: +2 to +4 DATE 06/01/90
 EST. SUBDIVISION LENGTH: 900 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: S to N
 SURFACE SEDIMENTS: R 60 % B 10 % C 20 % P 10 % G 10 % S 10 % M 10 % V 20 %
 SLOPE: Long 100 % Hang 100 % Vert 100 % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W 550 m M 8 m N 10 m VL 100 m NO 232 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR					IMPACTED ZONES			
	10	15	20	25	30	35	40	45	50	SU	U	M	U
ASPHALT PAVEMENT													
POOLED													
COVER													
COAT													
STAIN													
MOUSSE		X						X		X			
PATTIES													
TARBALLS			✓	X		✓				✓			
FILM													
NO OIL											X		

PAVEMENT: H F S 50 sq. m by 50 cmPATTIES / TARBALLS 50 BAGSNEAR SHORE SHEEN? (NO) BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs	X		
Vegetation	X		
Trash	X		
Debris			

DEBRIS COLLECTED
☐ YES ☒ NOTYPE #BAGS

Photographs:

Roll No. Frames

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CH)	BELOW		OIL / FILM COLOR					PIT ZONE				A N A	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		VO	UC	30	35	40	45	50	SU	U	M	U		

ACE 1949892

COMMENTS Oil is submerged in lagoon. "Tarballs" occur as black speckles clinging to cobbles. "Mousse" occurs in matts clumped together with vegetation.

Lagoon is in supratidal zone isolated from daily tidal action. Lower and mid-intertidal zones were not surveyed.

The survey of 5/2/90 did not cover supratidal zone or most of backshore. This survey completed the supratidal and backshore.

SEGMENT STN K-912/XX500

SUBDIVISION A

DATE 06/01/90

CHECKLIST

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

LEGEND

1 Δ
No Subsurface Oil

2 Δ
Subsurface Oil

CT/C
Continuous Distribution

CT/B
Broken Distribution

CT/P
Patchy Distribution

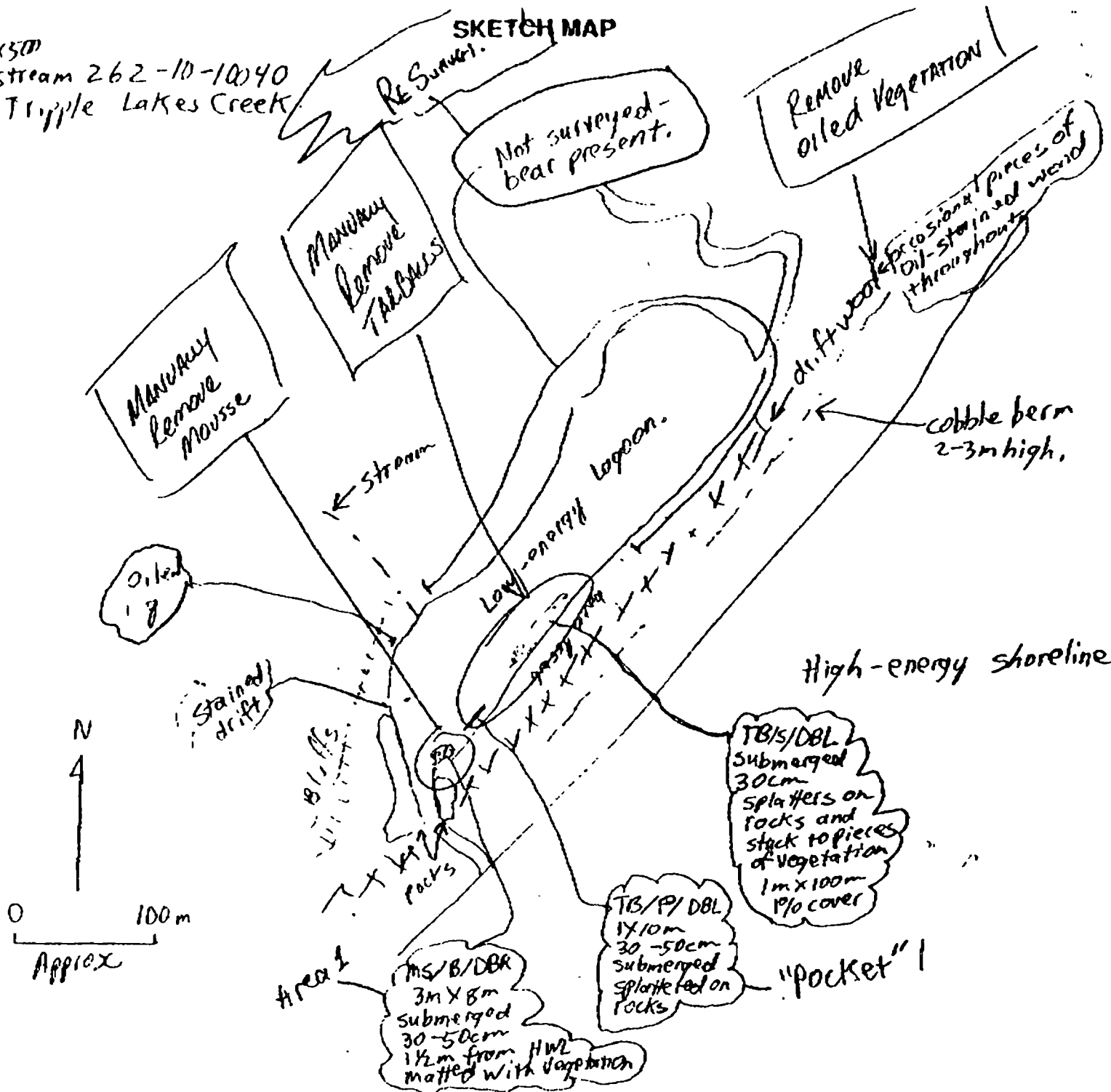
CT/S
Splashed Distribution

Oil Vegetation

Photo location, direction, and number

Stream 262-10-10040
Triple Lakes Creek

SKETCH MAP



ACE 1949893

Oil Character Length (m): AP PO CV CT ST MS 8 PT TB 110 FL NO 232 U 550

FIELD SHORELINE COMMENT SHEET

SEGMENT ST/ K-0912 SUBDIVISION: 262-10-10040 ^{ASC#} DATE 02 MAY 90

USCG

NAME Kenwin L. Dreher SIGNATURE CWO K. L. Dreher

☒ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

COMMENTS

NOTE: The most shore line of the larger lagoon was still snow covered. I suggest re-surveying this area after the snow melts back. The area I did survey (the east shore) had <1% stained driftwood and minimal very weathered/dry splatter on small submerged cobbles.

~~ADFG~~ → ADFG

NAME EDWARD W. WEISS SIGNATURE Edward W. Weiss

☐ NO TREATMENT RECOMMENDED

☒ TREATMENT SUGGESTED

COMMENTS

LAGOON SEGMENT IS LOW ENERGY AND RATTIES AND COVER ON COBBLES DO PRODUCE SLIGHT GREEN WHEN RUBBED. THIS GREEN DOES DISAPPEAR READILY IN WATER. STREAM NEEDS TO BE RESURVEYED FULLY WHEN SNOW COVER MELTS AND WATER LEVEL IS DOWN. BANDS OF (PT, TB, CV, ST)/P IS CURRENTLY 12-24" BENEATH WATER'S SURFACE. CLEANUP WOULD ALSO HAVE TO WAIT UNTIL WATER LEVEL RECEDES. OIL IS ONLY PARTIALLY VISIBLE DUE TO WATER BEATH AND SILT.

~~LAND MANAGER~~ → NPS

NAME Carl Scheeh SIGNATURE Carl Scheeh

☒ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

ACE 1949894

COMMENTS

This lagoon should be resurveyed at a lower water level in order to determine the exact extent and degree of oiling. This document represents a partial survey only. Based on these findings the observed oil on debris and cobbles should be removed. This lagoon/estuary system is very protected and oil will persist for a long time unless removed. Oil can be removed by wiping with sorbent towels or removing with shovels. Cleanup should not begin until water recedes.

SURFACE OIL

Frames_____

ACE 1949895

SG CALLARSON

1" = 100'

SKETCH MAP

SEGMENT ST/ K-0912

STREAM 262-10-10090

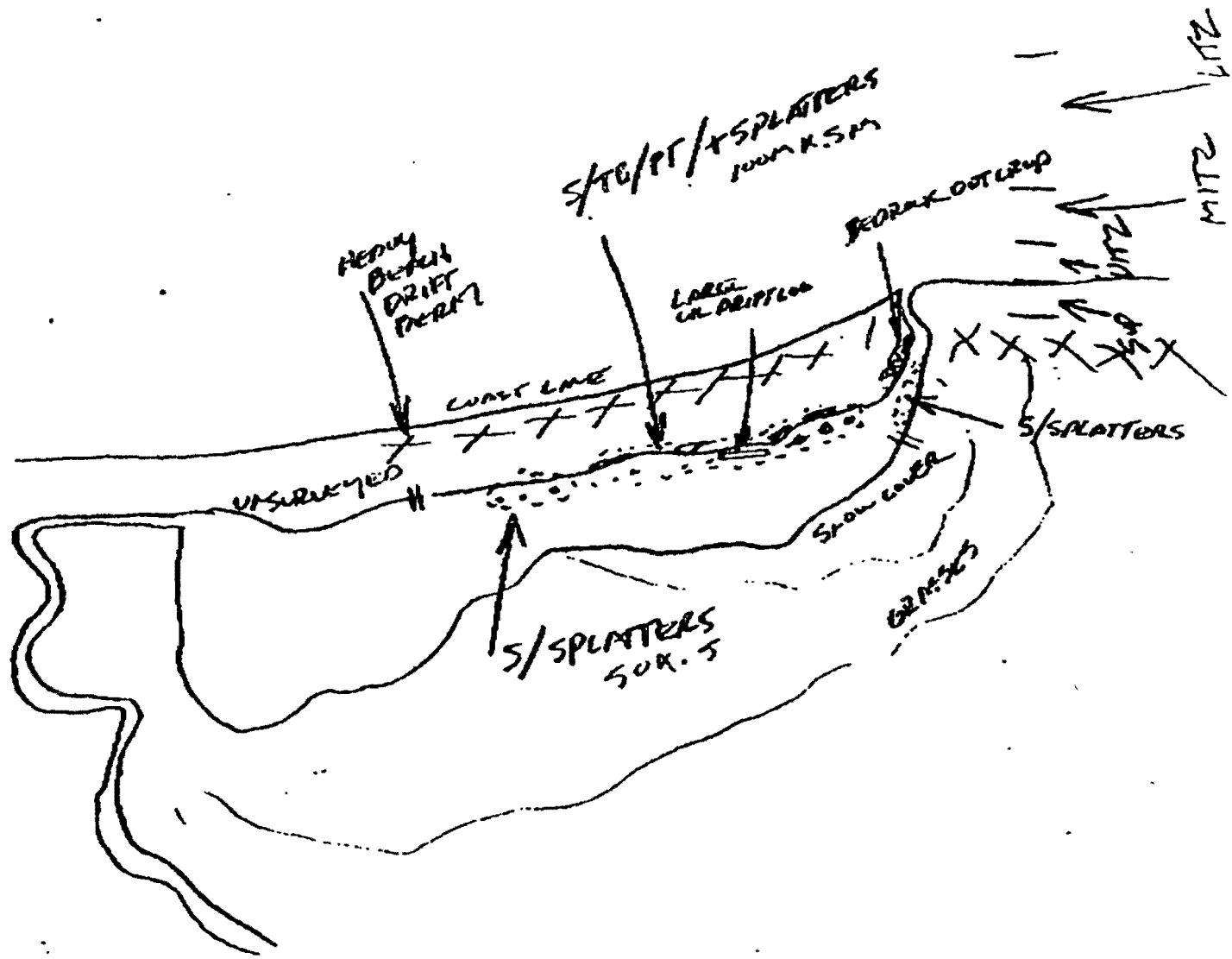
DATE 5, 2 90

CHECKLIST

- ☐ Name
- ☐ Approx. Scale
- ☐ Sup/Sub Basin
- ☐ Co Dba
- ☐ Date
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. Habitat
- ☐ SSI
- ☐ Profile Location(s)
- ☐ Photo(s)
- ☐ Pk Location(s)
- ☐ Photo Location(s)

LEGEND

- 1 Δ
- PK - No Substrate Cl
- 2 Δ
- PK - Substrate Cl
- CT/C
- Continuous Distribution
- CT/B
- Broken Distribution
- CT/P
- Patchy Distribution
- CT/S
- Spaced Distribution
- lll
- Old Vegetation
- 1 ●
- Photo location, direction, and number



ACE 1949896

2 REGION: FWS KP, CI K, SE

NOTES

1222

10 HIGH TIDE TIDES: _____

27 TEAM RECORD: 53, 54, 55

10 HIGH TIDE MTS. _____

23 ~~CONFIDENTIAL~~ A. YOFIS, K. KEITLAND

17 LOW TIME TIME: 1550,

20 AFDEN: ADFG/EXXON/NAS/LIV

10 LOW TIDE HTS: _____

24 PHOTO TAKEN: Y N

10 TIDE HT AT SURVEY: _____

Roll of _____ Frames _____

[illegible]

24 VIDEOS TAKEN: Y X' TAPES:_____

20 USC 5401: AFGNAC C.S.

Starts: _____ Ends: _____

11 ~~CONFIDENTIAL~~

20 SAMPLES TAKEN *y* IN NUMBER

011 90 ECH 004 K

Seit 1980

Material

Keywords: child sexual abuse; disclosure; social support

[illegible]

20 CATALOGUED AND. FISH BREAST

787 CATALOG #262-1C-1E040

29 STREAM NAME: TRIPLE LAKES CREEK

NO OIL IN STREAM NOT

40 OIL ON STREAM GUAGE? ☒ N

49 OIL ON BEACH ADJACENT TO ROUTE Y N

40 OIL WITHIN 1 MILE OF STREAM? Y N

1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 26

40 ALL-AMERICAN FISH PRESENTS Y N

4.4. ANCHORAGE FISH CONCENTRATION

Swanson Ariel Green

Order 35 Sent Nov/Dec 40

ACE 1949897

CONTINUING ON ~~ACQUA~~ EAST BANK OF LAGOON, SAND

1.5 AT NORMAL LOW TIDAL AREA BUT DUE TO MELT OFF

15 12-24" BELOW WATER'S SURFACE OF LAGOON AT LOW TIDE.

ONLY SURVEYED $\frac{1}{3}$ OF LAGOON, $\frac{1}{3}$ COVERED WITH SNOW, $\frac{1}{3}$ UNSURE

DUE TO TIME CONSTRAINTS, MOUSSE FAIRLY WEATHERED OUT ST.

FRAME(S)

DESCRIPTION

48 OIL DISTRIBUTION DIAGRAM

RECOMMEND: FULL SSAT / ANADSBAT SURVEY BE CONDUCTED AT LATER DATE, WHEN SNOW COVER MELTED AND WATER LEVEL DOWN. MANY PATCHES HARD TO SACT DUE TO WATER DEPTH AND SILT COVER WOULD BE MORE VISIBLE WITH LOWER WATER.

ALSO RECOMMEND MANUAL PICKUP CASES ON 1/3 SURVEYED BUT NOT UNTIL WATER GOES DOWN AND IMPACT IS ACCESSABLE.

ALSO HAD TB:ST/S AND ST CT/L/SM ON BANK OF LAGOON ABOVE WATER LEVEL. *D Wein*

ACE 1949898

STATE OF ALASKA

DEPARTMENT OF FISH AND GAME

STEVE COWPER, GOVERNOR

Rapifax 349-1723

333 RASPBERRY ROAD
ANCHORAGE, ALASKA 99513-1310
PHONE: (907) 344-0841

RAPIFAX TRANSMITTAL SHEET

TO: TOM KELLY
EXXON - ANCH.

DATE: 5-19-90

No. Pages: 3
(including this page)

FROM: ES WEISS
AFG KODIAK

MESSAGE:

DID NOT MAKE DIAGRAM USED
ANASSAT OR DIAGRAM.

ACE 1949899

1 = 100

SEGMENT ST/ K-0912

STREAM 262-10-1040

DATE 5, 2, 90

CHECKLIST

- ___ **At Arrow**
- ___ **Apprent. Scribe**
- ___ **Sgt/2nd. Body**
- ___ **Co. Plt.**
- ___ **March**
- ___ **March**
- ___ **1st Corps**
- ___ **Substance Character**
- ___ **Est. HALLAM**
- ___ **SG**
- ___ **Profile Location(s)**
- ___ **Profile(s)**
- ___ **Ph. Location(s)**
- ___ **Photo Location(s)**

LEGEND

14

Fig - No Subsurface Oil

71 - Adventure On -

ETAC

2010-2011

CT/B

Index Distribution

СТАВ

Index Distributions

८५

Plotted Discontinuity

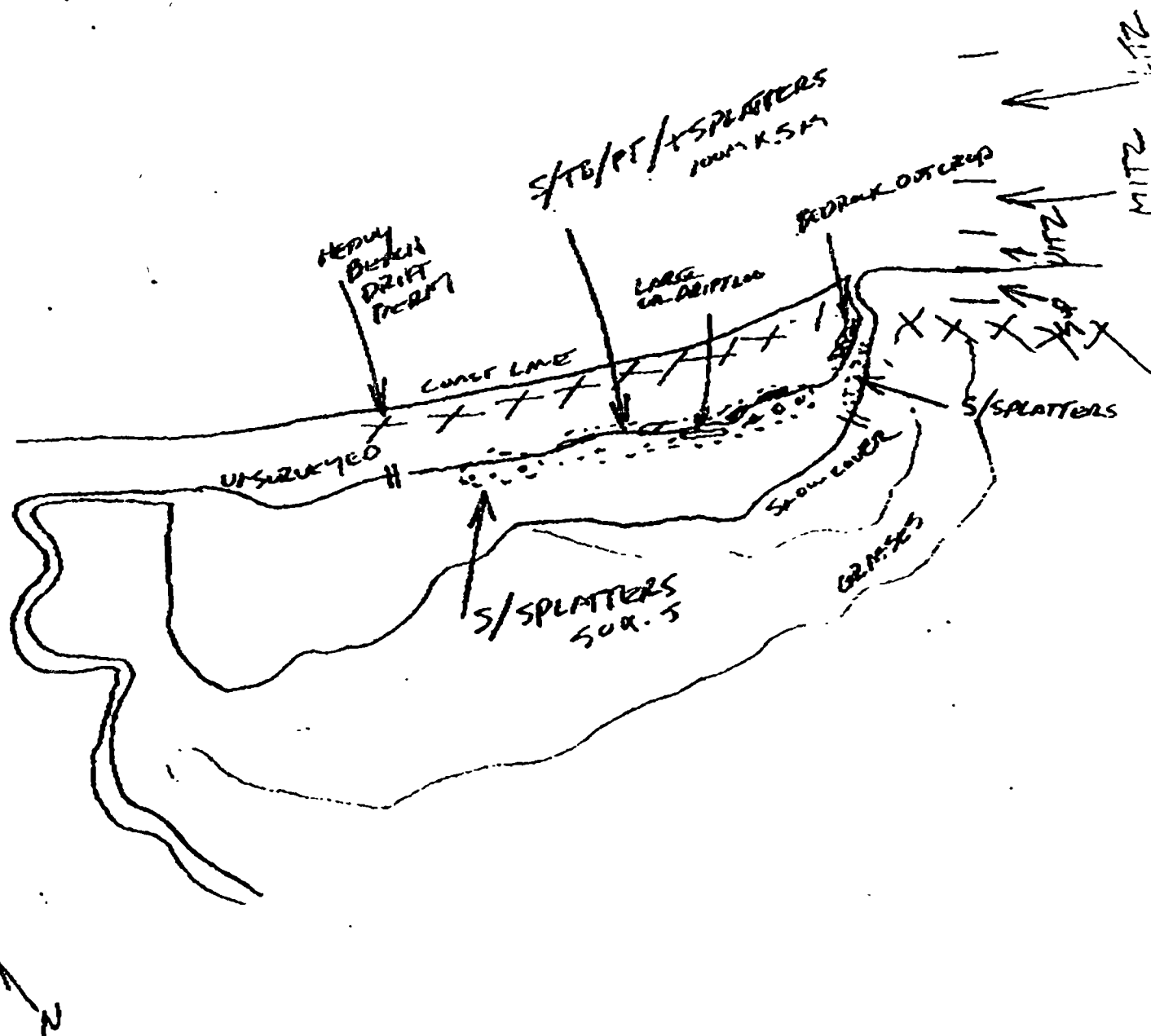
see

Red Vegetation

1

see location, direction,
id number

ACE 1949900 -75



Character Length (mg): AP PO CV CT ST MS PT TB FL NO

RESEARCH DESIGN



STATE OF ALASKA
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CHAIN-OF-CUSTODY LOG

Use one log for each sample. Enclose with shipping container.

The last person whose signature appears on this log certifies he/she has received the sample described below from the person whose signature immediately proceeds his/hers, and is according the sample proper custody by maintaining it in his/her physical possession or constant view or by storing in a secure tamper proof storage area. Transfers must be hand-to-hand, by registered mail, or other tamper proof means

Sample No. 90JPB005K Assigned Laboratory No. _____

Sample Description oil mousse

Container Description Precleaned glass jar with Teflon lid

Location taken Triple Lakes creek K9-12 XX500

Latitude 58° 43' 24" Longitude 153° 25' 26"

Person taking sample JEFF BARNHART Signature Jeff Barnhart

Title Fisheries Biologist II Agency ADF&G Hub. TAT Div.

Date collected 7/8/90 Time collected 1340

Witness _____ Signature _____

Witness _____ Signature _____

1. Transferred to K.R. Middleton via hand

For purposes of Transfer to Anchorage storage

Date 9-11-90 Time 1100

Received by K.R. Middleton Signature K.R. Middleton

Disposition _____

2. Transferred to _____ via _____

For purposes of _____

Date _____ Time _____

Received by _____ Signature _____

Disposition _____

3. Transferred to _____ via _____

For purposes of _____

Date _____ Time _____

Received by _____ Signature _____

Disposition _____

4. Transferred to _____ via _____

For purposes of _____

Date _____ Time _____

Received by _____ Signature _____

Disposition _____

5. Transferred to _____ via _____

For purposes of _____

Date _____ Time _____

Received by _____ Signature _____

Disposition _____

6. Transferred to _____ via _____

For purposes of _____

Date _____ Time _____

Received by _____ Signature _____

Disposition _____

ACE 1949901

This section to be completed by the laboratory Analyst:

Analyses completed _____

Summary results _____

Volume of sample remaining _____

Disposition of unused portion _____

Signature _____

Inspector's Seal Intact ☐ Yes ☐ No

Return this form to:
Sample Custodian: Environmental Technician
Department of Environmental Conservation
Douglas Laboratory Facility
750 St. Ann's Ave., Douglas, Alaska 99824

or
Sample Custodian:
Department of Environmental Conservation
510 South Alaska Street
P.O. Box 1088, Palmer, Alaska 99645

Sunday 7/8/90

To ICP 6:00 AM. Crew Larry Raymond
USCG, Terry Ellsworth DEC, Bill Stillings
(Extran) Howard Overton NPS, Bill Parks (VECO)

In aircraft 7:30 AM. Briefing. Depart Kodiak
0750. Light rain, ceiling 400 at Airport,
wind light & variable, sporadic ground fog.

Destination Triple Lakes Creek, Alaska Peninsula.

Returned to Kodiak due to fog. Land 8:55 AM

Discussion with DEC staff. Call to Middleton will
arrive 6:00 pm. Called Mike Gundwin, Jerry Hammond.
Barton helicopter 11:45 AM. weather cleared.

Same crew. Depart 11:55 AM.

12:15 pm MW sat'd Enon A-1 ops ~ 15 mi at Cape Douglas

Land Triple Lakes 1:40 pm

Crew start work 1:00 pm

1:40 sample of oil taken oiled vegetation from at
by bag. Conversation with Bill Stillings pursued.

Told me he would not wipe cobble but that is
what we currently have them doing. I told

him I would not argue with him about the
work order. Approx 1:40 pm. Randy Buckley,

Tommie Tomblin Arrived via helicopter & walked

to oiled vegetation area. Buckley asked me what we
were doing. Told me they would not be wiping rocks

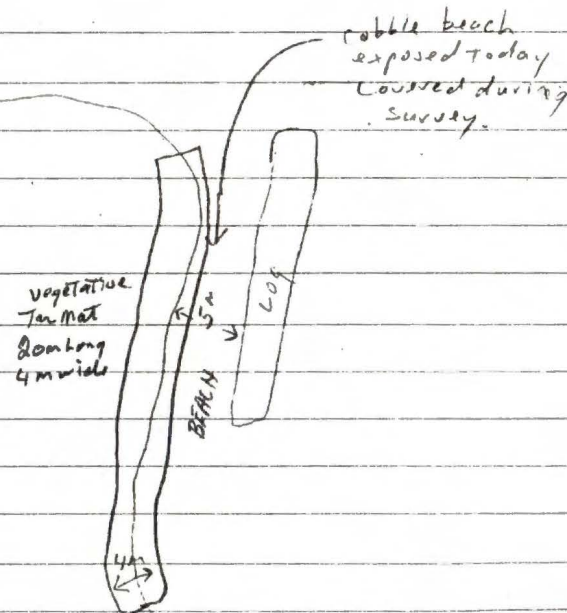
Some discussion about decision tree, workers NOT
accomplishing any good at this site. Resources better
put to use in sound (PWS) etc. Spoke to him approx
10 minutes. He departed. Bill Stillings told me work
would proceed as I instructed.

mat one 4 m wide x 20 m long

70% cover down to 20% at the end of

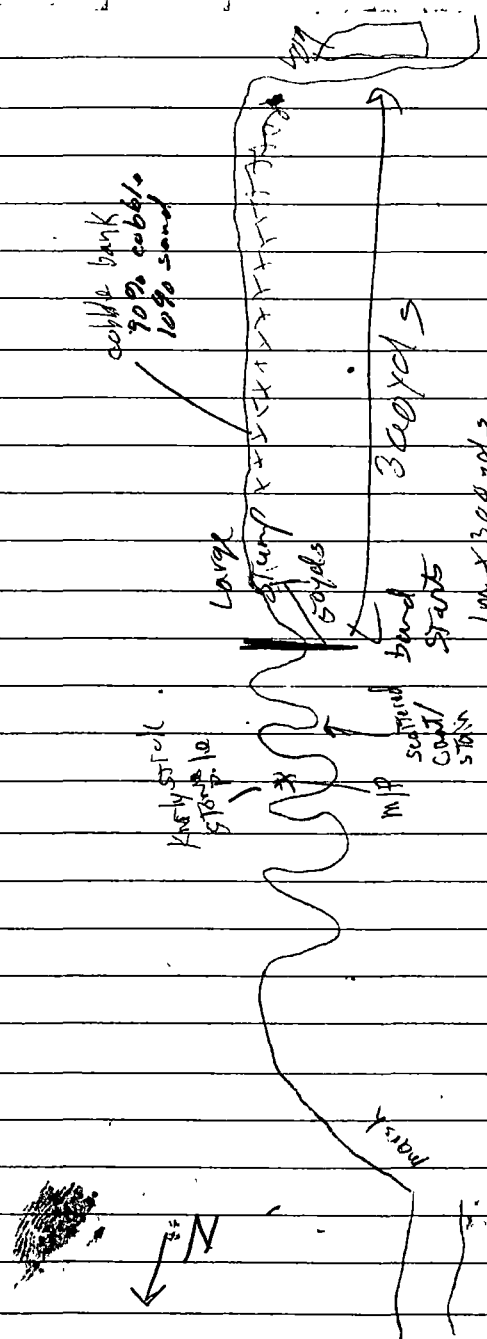
The burn. Also extends out into Lagoon

27 m 41% stain & oiled sediment
vegetation



ACE 1949902 H/S

ACE 1949903



1m x 300 yds
patchy
2% to 50%
oiled vegetation / tan patches / patches
stain / crust on cobble

walked on the other (inland) side
of lake, picked up one mouse
scattered coarse / stones 44 190

collected 40 - 35-40 pound bags
of oil & oiled vegetation. No Rock

40
40
40
0
10
1640 pounds

oil sample # 90 JPB 005K

used pon pumps & sorbant pads to pick up
some of the stain. stopped 6:00 pm.

6:20 Depart Triple Lakes

Complete Field Survey form

Leaved Kadiak 7:04 pm

Ken Middleton waiting for me at ZCP. Drive to office.
Quick dinner. Review available information on Helen
creek, Douglas creek and Triple Lakes creek.

Photos Today 7/8/92 Triple Lakes creek

Frame 13, 14, 15, 16, 17, 18

Finished at office 10:30 pm. 5 Dinner

OPERATIONS DAILY REPORT
SQUAD 9 - SEATRADER/HELICOPTER

FROM: Bill Stilling
TO: VESSEL COMMAND NETWORK
FAX No: (907) 266-6490

DATE OF WORK: 7/8/90

WORK HOURS: START 0630 TO: 1930

WEATHER CONDITIONS: Wind Speed (Knts) _____ Wave Height (Ft) _____ GENERAL _____
TIDES: HIGH _____ Time _____ HIGH _____ Time _____
LOW _____ Time _____ LOW _____ Time _____
GENERAL LOCATION: _____

SAFETY INCIDENTS For Day
Fatality _____
Lost Time _____
Restricted _____
Medical Treatment _____
Total Recordable _____
(Transmit Details Separately)

SCHEDULED WORK DAY Vessel Helo
HOURS (ex Break) = 12 12
Working _____ 6
Weather Downtime _____ 5
Transit Time _____ 2
Mechanical Downtime _____
Other: _____

VESSEL REPRESENTATIVES NAMES
ADEC _____
Exxon _____
USCG _____
OOPS _____
Other _____

MANPOWER AND BILLETING STATUS (# of People)

Berthing Vessel	PAX * Beds	Exxon Reps	OOPS	Agency Reps	Other	Beach Wkrs Wkg	Idle	Open Beds
Sea Trader	16							

HELICOPTER REPRESENTATIVES NAMES
ADEC Terry Ellsworth
Exxon Bill Stilling
USCG Larry Raymond
Other Jeff Bernhart ADFTG
Howard Overton NPS

* COI Passenger Beds (Includes Service Personnel)

	Boat Crews
Berthing Vessels	
LCV/Production	
Work Boats	
TOTALS	

Helicopter Tail #'s
509 EH
511 EH
Work Areas
K9-12 KX500
(CD-20)

VESSEL STATUS (# of Vessels)

Vessel Type	Total Asignd	In Transit	Total Working	Not Used	Mech Down	Weath Down
Berthing						
LCV/Production						
Work Boat						
TOTALS						

VESSELS ASSIGNED:

Vessel Name	Vessel Type	# People Berthed
Sea Trader	Berthing	

NEXT SQUAD MOVE: LOCATION K9-17 CC100, K6-34 SL15 K10-7 DATE OF MOVE 7/9/90
PS16

DATE OF LAST CREW CHANGE _____ SCHEDULED DATE FOR NEXT CREW CHANGE _____
PORT FOR CREW CHANGE _____ PORT FOR CREW CHANGE _____

VISITORS (Name/Affiliation) _____

STATUS OF SUPPLIES/STORAGE CAPACITIES: _____

NUMBER OILED/DEAD BIRDS FOUND _____ # Alive NUMBER OILED/DEAD MAMMALS FOUND _____ # Alive
OTHER: _____

PHOTO LOG ADF&G

OFFICE: KODIAK
DATE PRINTED: 09/06/90

PHOTOGRAPHER: J. Barnhart

ROLL #: 90JPB003K

FRAME#	DATE	TIME	SEGMENT#	STATION#	LOCATION	REASON FOR TAKING PHOTO
01	07/06/90	1230	CD-18	2621010100	Douglas Creek, Alaska Peninsula K09-11	Oil sheen at base of cut bank on lagoon island after mousse removed.
02	07/06/90	1230	CD-18	2621010100	Douglas Creek, Alaska Peninsula K09-11	Mousse in grass on lagoon island.
03	07/06/90	1240	CD-18	2621010100	Douglas Creek, Alaska Peninsula K09-11	Oil sheen at base of cut bank on lagoon island after mousse removed.
04	07/07/90	1000	CD-18	2621010100	Douglas Creek, Alaska Peninsula K09-11	Mousse and substrate being removed.
05	07/07/90	1000	CD-18	2621010100	Douglas Creek, Alaska Peninsula K09-11	Mousse with substrate in plastic cleanup bag.
06	07/07/90	1000	CD-18	2621010100	Douglas Creek, Alaska Peninsula K09-11	Mousse in vegetation, lagoon island.
07	07/07/90	1045	CD-18	2621010100	Douglas Creek, Alaska Peninsula K09-11	Mousse and substrate being removed from lagoon island.
08	07/07/90	1407	AB-002	26265K-655	Bear Lake Creek, Alaska Peninsula K10-02	Lower river during cleanup. Dave Kirkby, USF&WS.
09	07/07/90	1410	AB-002	26265K-655	Bear Lake Creek, Alaska Peninsula K10-02	View from lower river looking upstream.
10	07/07/90	1415	AB-002	26265K-655	Bear Lake Creek, Alaska Peninsula K10-02	Lower river during cleanup. Buckets of mousse patties.
11	07/07/90	1420	AB-002	26265K-655	Bear Lake Creek, Alaska Peninsula K10-02	Mousse patties stacked on beach during cleanup of lower river.
12	07/07/90	1425	AB-002	26265K-655	Bear Lake Creek, Alaska Peninsula K10-02	Mousse patties stacked on beach during cleanup of lower river.
13	07/08/90	1315	XX-500	2621010040	Triple Lakes Creek, Alaska Peninsula K09-12	Work crew wiping oiled cobble.
14	07/08/90	1320	XX-500	2621010040	Triple Lakes Creek, Alaska Peninsula K09-12	Previously submerged oil now exposed due to low water level.
15	07/08/90	1322	XX-500	2621010040	Triple Lakes Creek, Alaska Peninsula K09-12	Previously submerged oil now exposed due to low water level.
16	07/08/90	1425	XX-500	2621010040	Triple Lakes Creek, Alaska Peninsula K09-12	Submerged oil in stream.
17	07/08/90	1425	XX-500	2621010040	Triple Lakes Creek, Alaska Peninsula K09-12	Submerged tarmat being removed from stream.
18	07/11/90	1300	CC-100	2621510040	Chiniak Lagoon, Alaska Peninsula K09-17	Oil sheen after mousse patties removed during cleanup.

ACE 1949908

STATE OF ALASKA

DEPARTMENT OF FISH AND GAME

STEVE COWPER, GOVERNOR

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

EXXON Valdez Oilspill Cleanup

Anadromous Fish Stream Authorization

Date 7/8/90

EXXON Authorized Representative *De Sta...*

Shoreline Segment K09-12-xx500

Anadromous Fish Stream Number(s) 262-10-10040

Triple Lakes Creek

Approved Cleanup Techniques manual removal of all oil of
any form within the stream channel and bottom substrate
and on the stream banks

Approved Cleanup Period 7/8/90 - 7/10/90

Alaska Department of Fish and Game

Jeffrey P. Barnhart
Authorized Officer

Permittee's Signature

ACE 1949909

Left

PIC: Fulkerson TYPE: B-2 BASE: ADDQ

ADDITIONAL CREW: _____ ASSIGNMENT: _____ TRIP NO: _____

CUSTOMER: EXXON BIG BAY 220 KUKAKI 75 KUKAKI 75

TRIP NO	LEAVE	TIME	ARRIVE	TIME	FLIGHT TIME	PASS	CARGO	AC WT	MAX TO WT	FWD C.G.	AFT C.G.	PILOT INT OR AC CG
①	ADDQ	0924	CAPE DING	1005	44	2	—	11303	11,200	132.7	142.7	KOL
②		1105	"	1110	05	2	—	9833	11,200	131.7	143.0	KOL
3		1110	SLING 50				1800X	10433		134.0	142.0	137.4
			ALBERTA TIDE				1300	10633		"	"	"
			SLING 50				1100	10400		"	"	"
			ALBERTA TIDE				1500	10800		"	"	"
							1100	10300		"	"	"
							1200	10400		"	"	"
4	CAPE DING	1208	BIG BAY	1238	30	2	—	9103		130.7	143.0	KOL
⑤		1318	TRIP 100	1338	20	2	—	10503		133.0	142.5	KOL
		1338	SLING 50				900	10200		134.0	142.0	138.6
			ALBERTA TIDE				600	9800		134.0	142.0	138.4
7		1420	CHINA	1437	17	2	—	9303		131.9	143.0	KOL
⑧	CHINA	1437	LEGON				1400	10700		134.0	142.5	137.4
"							400	9600		"	"	"
"							500	9700		"	"	"
9		1500	ALBERTA TIDE	1500	30	—	1000	10900		"	"	"
		1530	KUKAKI	1543	13	—	8733			130	143	KOL
10	KUKAKI	1543	TRIP 100	1610	14	—	9833			131.8	143.0	KOL
⑪	CHINA	1610	CHINA	1635	17	6	100	10000	11,200	133.6	142.0	137.4
12	CHINA	1635	CHINA	1745	1+10	8	LOADS X 10000	8000		134.0	142.0	137.4
13	"	1745	ALBERTA TIDE	1752	07	1	—	8868		130.2	143.0	KOL
14	"	1752	KUKAKI	1815	23	—	—	8533		130	143	KOL
⑮	KUKAKI	1821	ADDQ	1906	45	—	—	8933		130.3	142.0	KOL

(1.4)
 (1.2)
 (50 LAIRS)
 LOG 100
 (1.5) 1127
 7.53
 45
 8.16
 8.38
 17
 17
 20,100
 1+353
 7.53
 146.53
 1+353
 20.16 =
 ORDER 7 on
 SLING COLUMN
 ACE 1949910

EXXON FLIGHT PLAN

1. AIRCRAFT TAIL NUMBER: N509EH DATE: 7-8-90
2. AIRCRAFT COLOR: Red/Blk/white TYPE AIRCRAFT: B212
3. TOTAL NUMBER OF PEOPLE ON BOARD (INCLUDING CREW): 8
4. DEPARTURE POINT: ADQ ETD: 0700
5. ROUTE OF FLIGHT (SHOW ALL WAYPOINTS): ADQ → Triple creek lake
→ ADQ (+ possible stop at KUKAK for fuel)
6. FINAL DESTINATION: ADQ ETA: 1900
7. FUEL ON BOARD: 2 HRS + 40 MINUTES
8. ANTICIPATED DELAYS (WAYPOINT/TIME): Remain all day at
Triple creek lake
9. COMPLETE MANIFEST AND ATTACH OR USE FORM BELOW: ☒ (check complete)
10. DRAW ROUTE WITH DIRECTION ARROWS AND ATTACH: ☒ (check complete)
11. EXECUTE IDEMNIFICATION AGREEMENT IF REQUIRED (reference page F-4) AND ATTACH. REQUIRED? YES ☐ NO ☒
12. FAX (266-6471) COMPLETE FLIGHT PLAN AND ATTACHMENTS TO TRANSPORTATION FOLLOWING OR CALL (266-6582). IF DELAYED MORE THAN 30 MIN., AMEND ETD...

NAME	COMPANY	WEIGHT	BAG WT	DESTINATION
JEFF BARNHART	ADFC	235		
BILL STILLINGS	EXXON	"		
BILL PARKS	VECO	"		
TERRY ELLSWORTH	ADEC	"		
HOWARD OVERTON	NPS	"		
JIM DAVIS Larry Raymond ^{8PB}	USCG	"		

PILOTS NAMES:

FULKERSON, Larry

STRAIN, Ken

TOTALS

1410

TOTAL PASS & BAGGAGE

1410

EXXON FLIGHT PLAN

1. AIRCRAFT TAIL NUMBER: 511EH DATE: 7/8/90
2. AIRCRAFT COLOR: R/W/B TYPE AIRCRAFT: B-212
3. TOTAL NUMBER OF PEOPLE ON BOARD (INCLUDING CREW): 7
4. DEPARTURE POINT: ADQ ETD: 07:15
5. ROUTE OF FLIGHT (SHOW ALL WAYPOINTS): TRIPLE LAKES CREEK
→ KUKAK → TRIPLE LAKES CREEK → ADO
6. FINAL DESTINATION: ADQ ETA: 18:00
7. FUEL ON BOARD: 02 HRS + 15 MINUTES
8. ANTICIPATED DELAYS (WAYPOINT/TIME): TRIPLE LAKES CREEK
(ALL DAY) KUKAK (30 MINS.)
9. COMPLETE MANIFEST AND ATTACH OR USE FORM BELOW: ☒ (check complete)
10. DRAW ROUTE WITH DIRECTION ARROWS AND ATTACH: ☒ (check complete)
11. EXECUTE IDEMNIFICATION AGREEMENT IF REQUIRED (reference page F-4) AND ATTACH. REQUIRED? YES ☐ NO ☒
12. FAX (266-6471) COMPLETE FLIGHT PLAN AND ATTACHMENTS TO TRANSPORTATION FOLLOWING OR CALL (266-6582). IF DELAYED MORE THAN 30 MIN., AMEND ETD...

NAME	COMPANY	WEIGHT	BAG WT	DESTINATION
Todd SKOGLUND	VECO	195	200	ADQ
CRAIG COLDWELL	↓	200	↓	
ROBERT STEPHAN	↓	195	↓	
JOHN ANDERSON	↓	190	↓	
JAKE VERSTEEG	↓	180	↓	

PILOTS NAMES:

J. ZANIS

T. RIDLEY

TOTALS

960

200

TOTAL PASS & BAGGAGE

1160

Triple Lakes

Sunday 7/8/90

To JCP 6:00 AM. Crew Larry Raymond
USCG, Tess, Ellsworth DEC, Bill Stillings
(Ensign) Howard Overton NPS, Bill Parks (USCG)

In aircraft 7:30 AM. Briefing. Depart Kodiak

0750. High tide, ceiling 400 at Airport,
wind light & variable, sporadic ground fog.

Destination Triple Lakes creek, Alaska Peninsula.

Returned to Kodiak due to fog. Land 8:55 AM

Discussion with DEC staff. Call to Medford with
arrive 6:00 PM. Called Mike Gundwin, Jerry Hammond
Barton helicopter 11:45 AM. weather cleared.

Same crew. Depart 11:55 AM.

12:15 PM. 99W Vial. From A-1 ops ~ 1000 ft Cape Douglas.

Land Triple Lakes 1:40 PM

Crew start work 1:00 PM

1:40 Sample of oil taken oiled vegetation from mat
by bag. Conversation with Bill Stillings pursued.

Told me he would not wipe cobble but that is
what we currently have than doing. I told

him I would not argue with him about the
work order. Approx 1:40 PM. Randy Buckley,

Tommy Tomblin Arrived via helicopter & walked

to oiled vegetation area. Buckley Asked me what we
were doing. Told me they would not be wiping rocks

Some discussion about decision tree, markers NOT
accomplishing any good at this site. Resources better
but reuse it sound (PWS) etc. Spoke to him approx
10 minutes. He departed. B.H. Stillings Told me work
would proceed as I instructed.

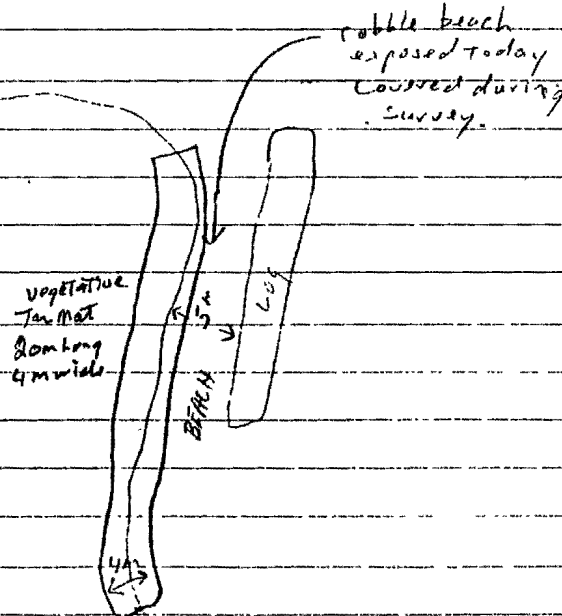
Mat one 4 m wide x 20 m long

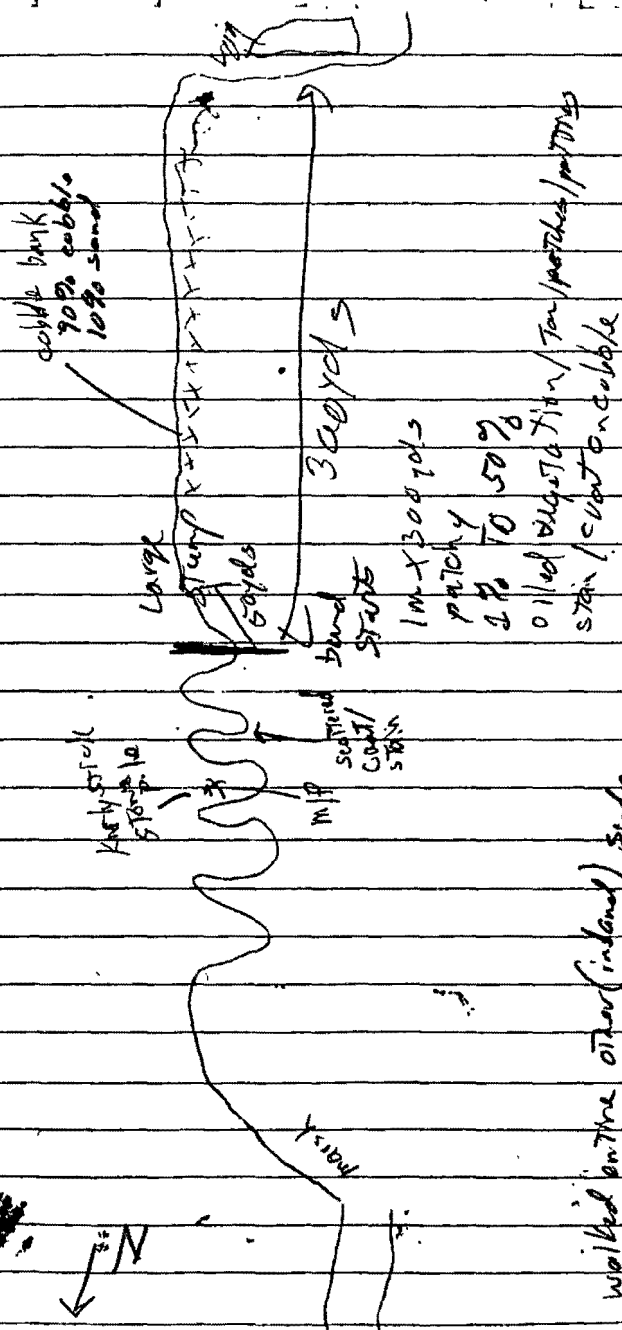
70% cover down to 20% at 20 m end.

The bank. Also extends out into lagoon.

27 m L1% stain & oiled sediment.

1:40 PM





walked on the other (inland) side of lake. picked up one mouse. scattered coat / stain 22 192

collected 40 - 35-40 pound bags of oil & oil vegetation. No Rock

40
40
40
10
1640 pounds

oil sample # 90 JPB 005k

used gun pens + sarban pads to pick up some of the stain. stopped 6:02 pm.

6:20 Depart Triple Lakes

Complete Field Survey form

Leaving Ketchikan 7:24 pm

Ken Middleton waiting for me at ZCP. Drive to office. Quick dinner. Review available information on Helen creek, Douglas creek and Triple Lakes creek.

Photos Today 7/8/90 Triple Lakes creek

Frame 13, 14, 15, 16, 17, 18

Finished at office 10:30 pm. 5:00 pm dinner

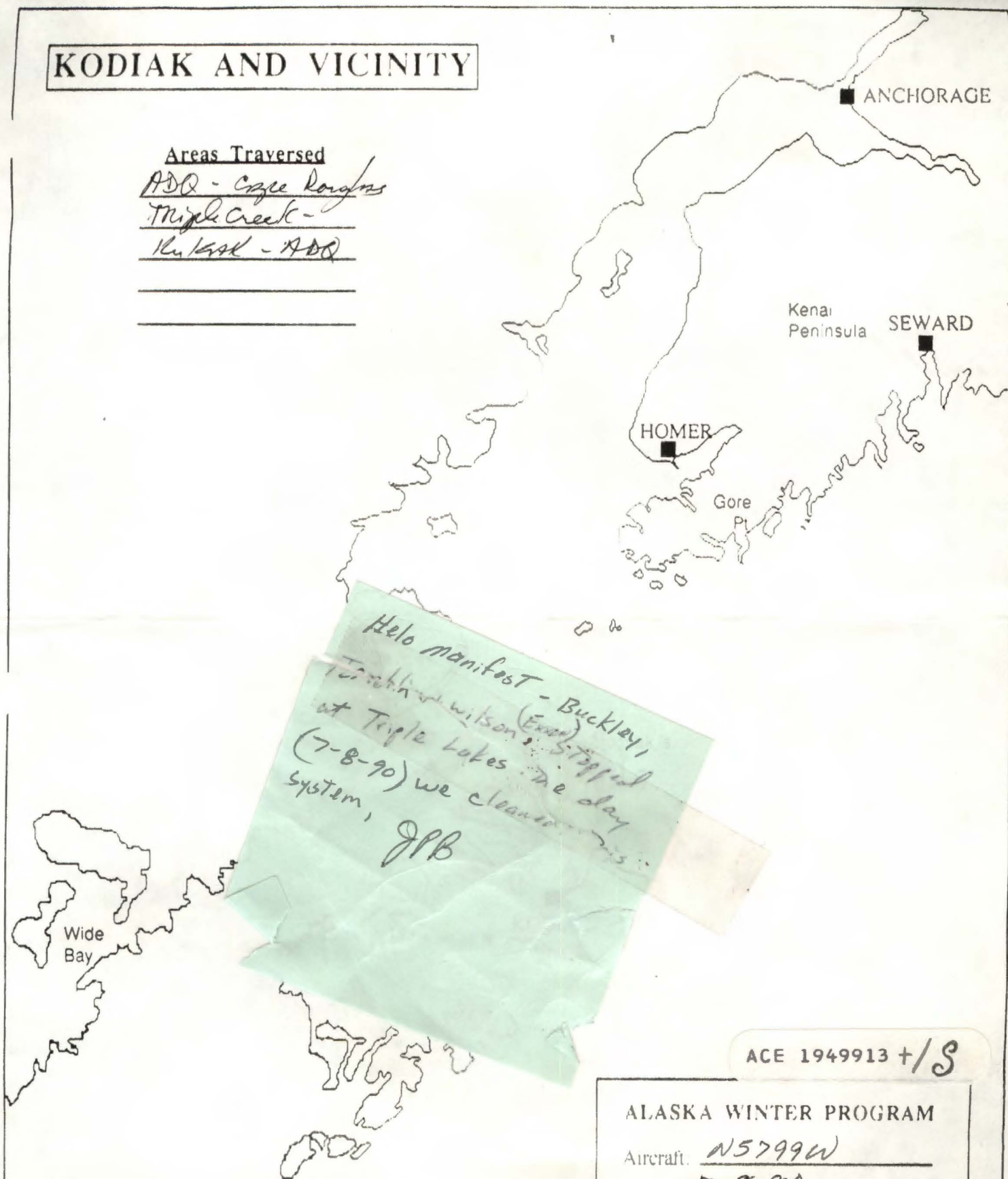
KODIAK AND VICINITY

Areas Traversed

ADD - Eagle Ranges

Triple Creek -

Kulash - ADD



Helo manifest - Buckley,
Torchline Wilson (Evan) stopped
at Triple Lakes. The day
(7-8-90) we cleaned up this
system,
JPB

ACE 1949913 +/S

ALASKA WINTER PROGRAM

Aircraft: N5799W

Date: 7-8-90

Time of Flight: 0900

Pilot: Hilton Jones

Department: Exxon

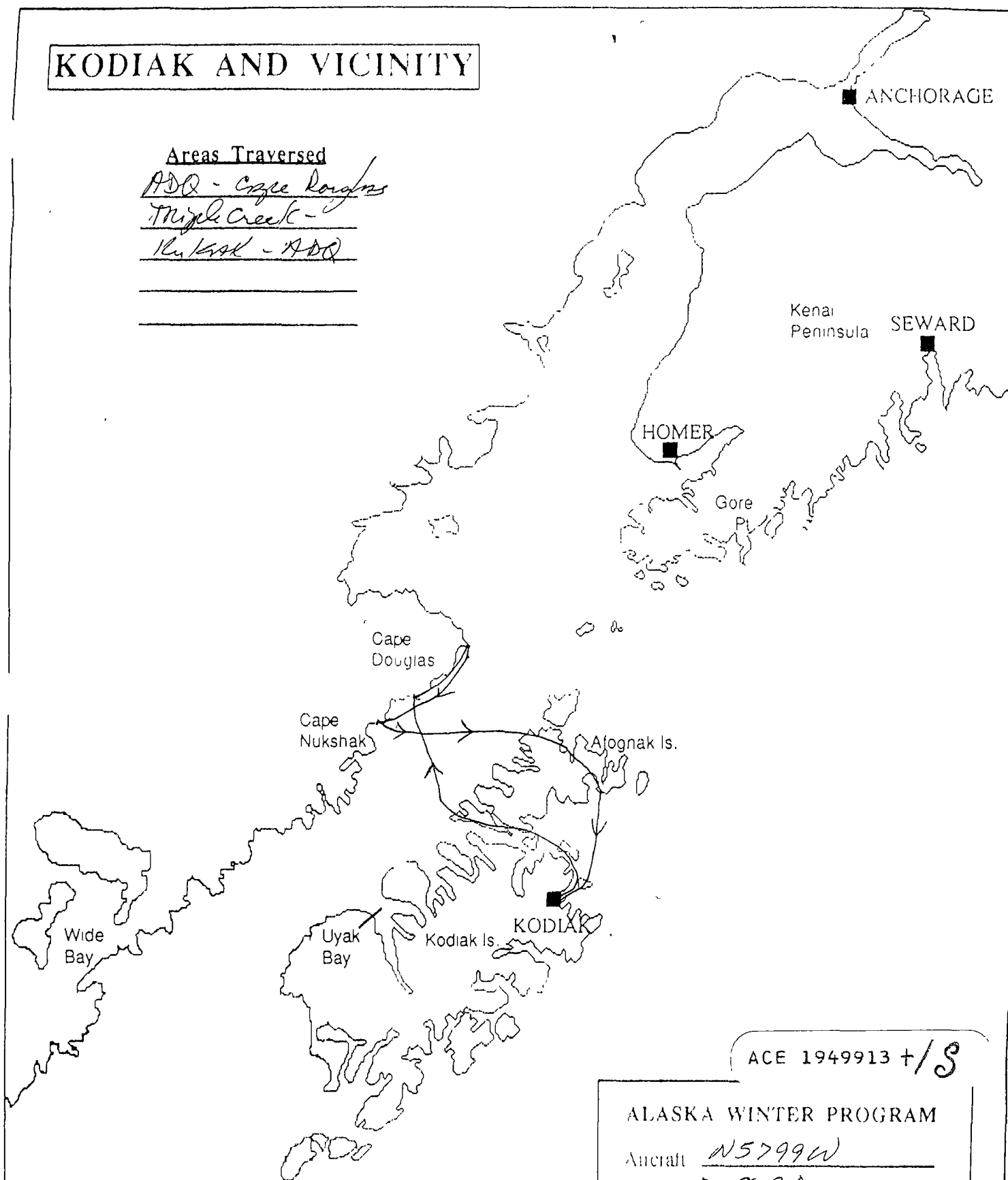
KODIAK AND VICINITY

Areas Traversed

ADD - Cape Douglas

Triple Creek -

Kodiak - ADD



ACE 1949913 +1/3

ALASKA WINTER PROGRAM

Aircraft N5799W

Date 7-8-90

Time of Flight: 0900

Pilot: HILTON JONES

Department EXXON

EXXON FLIGHT PLAN

12. FAX (266-6471) COMPLETE FLIGHT PLAN AND ATTACHMENTS TO TRANSPORTATION
FOLLOWING OR CALL (266-6582). IF DELAYED MORE THAN 30 MIN., AMEND ETD...

PILOTS NAMES:
H. L. T. Jones

ANADROMOUS FISH STREAM EVALUATION

Triple Lakes Creek

SEGMENT ST/K09-12-~~XX500~~ STREAM NO: 262-10-10040 DATE 6/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
5S Shorebird/waterfowl concentration (4/25 to 5/15)
See attached Ecological Constraint sheet for specific constraints and contracts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

See above.

ARCHAEOLOGICAL CONSTRAINT: Consultation and inspection with an Exxon archaeologist is required prior to treatment. Specific on-site monitoring requirements will be determined at that time.

>>> PHONE 564-3274 (Anchorage) OR 229-1508 (24 hrs.) <<<

SHPO SIGNATURE: *Charles E. Holmes* DATE: *June 29, 1990*

Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

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

COMMENTS: Recommended treatment is manual removal of mousse, patties and oiled debris as shown on attached sketch map.

TAG COMMENTS: SURVEY AREA NOT PREVIOUSLY SURVEYED

TAG APPROVAL DATE: 6/18/90.

ADEC Ram Mooney R. Mooney
EXXON Amy T. T. T. T.
NOAA Joseph T. T. T.
USCG R. A. T. T. T.

FOSC: *[Signature]* DATE: 6/30/90

ANADROMOUS FISH STREAM EVALUATIONSEGMENT ST/K09-12-~~AK500~~ STREAM NO: 262-10-10040 DATE 6/1/90 *Triple Lakes Creek***SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:**

1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
 1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
 SS Shorebird/waterfowl concentration (4/25 to 5/15)
 See attached Ecological Constraint sheet for specific constraints and contracts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

See above.

ARCHAEOLOGICAL CONSTRAINT: Consultation and inspection with an Exxon archaeologist is required prior to treatment. Specific on-site monitoring requirements will be determined at that time.

>>> PHONE 564-3274 (Anchorage) OR 229-1508 (24 hrs.) <<<

SHPO SIGNATURE: Charles E. Holmes DATE: June 29, 1990Subsurface Oil Observed: Yes _____ No X Maximum Depth _____**RECOMMENDATIONS:**

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

COMMENTS: Recommended treatment is manual removal of mousse, patties and oiled debris as shown on attached sketch map.

TAG COMMENTS: 3 SURVEY AREA NOT PREVIOUSLY SURVEYEDTAG APPROVAL DATE: 6/18/90ADEC Pam M... R...EXXON Ann... R...NOAA Joseph... J...USCG C.A. ... G.A. ...FOSC: D. J... DATE: 6/30/90

VIA FAX 2:00PM
 7/5/90
 ACE 1949916 +1/2

Seg ID: XX-500

Subdiv: 262-10-10040

Survey Date: 5/2/90

Comments by: Ken Critchlow

The beach at this stream site is very high energy characterized by well-rounded pebble and cobble. A bedrock outcrop guards the stream mouth which breaks through a high storm berm and large log jam. The beach was depauperate.

A very large lagoon was present behind the storm berm. The backshore was about 50 percent covered by snow and couldn't be surveyed. About half of the remaining shore was surveyed. Small amounts of tarballs and patties were observed in the grass at the water's edge. Some mousse was present on submerged cobble in the lagoon. The extent of oiling of submerged rocks couldn't be determined.

Large numbers of water fowl were observed at the north end of the lagoon. The area is obviously used for feeding and possibly nesting.

KR Critchlow

A brown bear skull (no mandible or teeth) was found at the water's edge in the bog. It was left in place.

FIELD SHORELINE COMMENT SHEET

Triple Laker Creek

SEGMENT ST 1 K-912/XX500 SUBDIVISION: Stream # 262-10-10040 DATE 6/1/90

~~NORA~~
~~USEC~~

NAME Tom Callahan SIGNATURE Tom Callahan

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED

COMMENTS

The storm berm has moved and partially blocked the stream mouth, causing the lagoon level to rise. This occurred after mousse floated in and settled along an edge of the lagoon. As a result, mousse was found incorporated with flooded vegetation in 2-3 ft of water. This mousse/vegetation mixture is recoverable and is still able to ^{cause} ~~create~~ a sheen when disturbed. suggest this be removed prior to salmon spawning in the area containing mousse.

ADEC

NAME Terry Ellsworth SIGNATURE Terry Ellsworth

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED

COMMENTS

Oil occurs as cv-ct-st on cobbles, driftwood and trash and as a mousse-vegetation mat within the lagoon. The oiled cobbles and ms-veg. mat are presently submerged under 30 cm of water at 3m from the present shoreline. A thin film of silt covers the area making it difficult to see. Water level in the lagoon is not influenced by daily tidal action. Survey was not completed due to a bear on the nearby beach. Manual removal of ms-veg mat and driftwood and cleaning of heavy coat-cover on cobbles is recommended before fish spawn. If assessment is not completed before treatment, it should be completed before crew finishes in the area.

LAND MANAGER

NAME N.A. SIGNATURE _____

☐ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED

COMMENTS

ACE 1949918

FIELD SHORELINE COMMENT SHEET

SEGMENT ST 1K69-12 4562 SUBDIVISION: 262-10 10040 Triple Lakes Creek DATE 6/2/90**ADEG**NAME JEFFREY P. BARNHART SIGNATURE Jeffrey P. Barnhart☐ NO TREATMENT RECOMMENDED
COMMENTS☒ TREATMENT SUGGESTED

See ADF&G Analysis Form for complete Data. Is.

Recommend ^{manual} removal of oiled vegetative mats from under the water.
Oiled cobble / pebble should be removed from the water cleaned and replaced.

The oiled cobble / pebble / vegetative mats are difficult to located as a thin film of silt covers them under the water.

ADF&G Habitat Division personnel need to be present during cleanup to locate the problem areas.

A complete survey needs to be conducted as it is suspected additional oiled vegetative mats / oiled cobble are present in this low energy Lagoon.

Jeff Barnhart

ACE 1949919

SHORELINE OILING SUMMARY

REVISION NO. 05-22-90

OG J. Springer USCG NOAA J. Callahan SEGMENT ST/ K-112/1251
 BIO D. Lohse LAND REP J. Baranack SUBDIVISION A/Stream 262-10-1004
~~EXXON~~ Pack Service R. Waver ADCC T. Ellsworth TIME 18:20 to 19:30
 TEAM NO.: 19 TIDE LEVEL: +2 to +4 DATE 06/01/1990
 EST. SUBDIVISION LENGTH: 900 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: S to N
 SURFACE SEDIMENTS: R 60 % B 10 % C 20 % F 10 % G 10 % S 10 % M 10 % V 20 %
 SLOPE: Long 100 % Hang 100 % Vert 100 % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W 550 m M 8 m N 10 m VL 100 m NO 232 m

SURFACE OIL

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

PAVEMENT: H F S _____ sq. m by _____ cm

PATTIES / TARBALLS 50 BAGSNEAR SHORE SHEEN? NO BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs	X		
Vegetation	X		
Trash	X		
Debris			

DEBRIS COLLECTED
☐ YES ☒ NO

TYPE _____

#BAGS _____

Photographs:

Roll No. _____

Frames _____

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CM)	BELOW	OIL / FILM COLOR					PIT ZONE				A N A	SUBSURFACE SEDIMENTS
		CP	OR	OL	CF	NO			1	2	3	4	5	SU	U	M	U		

ACE 1949920

COMMENTS Oil is submerged in lagoon. "Tarballs" occur as black spatters clinging to cobbles. "Mousse" occurs in matts clumped together with vegetation.

Lagoon is in supratidal zone isolated from daily tidal action. Lower and mid-intertidal zones were not surveyed.

The survey of 5/2/90 did not cover supratidal zone or most of backshore. This survey completed the supratidal and backshore.

SEGMENT STI K-912/XX500

SUBDIVISION A

DATE 06/01/90

Stream 262-10-1040
Triple Lakes Creek

SKETCH MAP

CHECKLIST

- N Arrow
- Approx. Scale
- Seg/Sub Boundary
- Oil Dist
- Width
- Length
- % Cover
- Substrate Character
- Est HWL/LWL
- SSI
- Profile Location(s)
- Profile(s)
- PH Location(s)
- Photo Location(s)

LEGEND

1 Δ No Subsurface Oil

2 Δ Subsurface Oil

CT/C Continuous Distribution

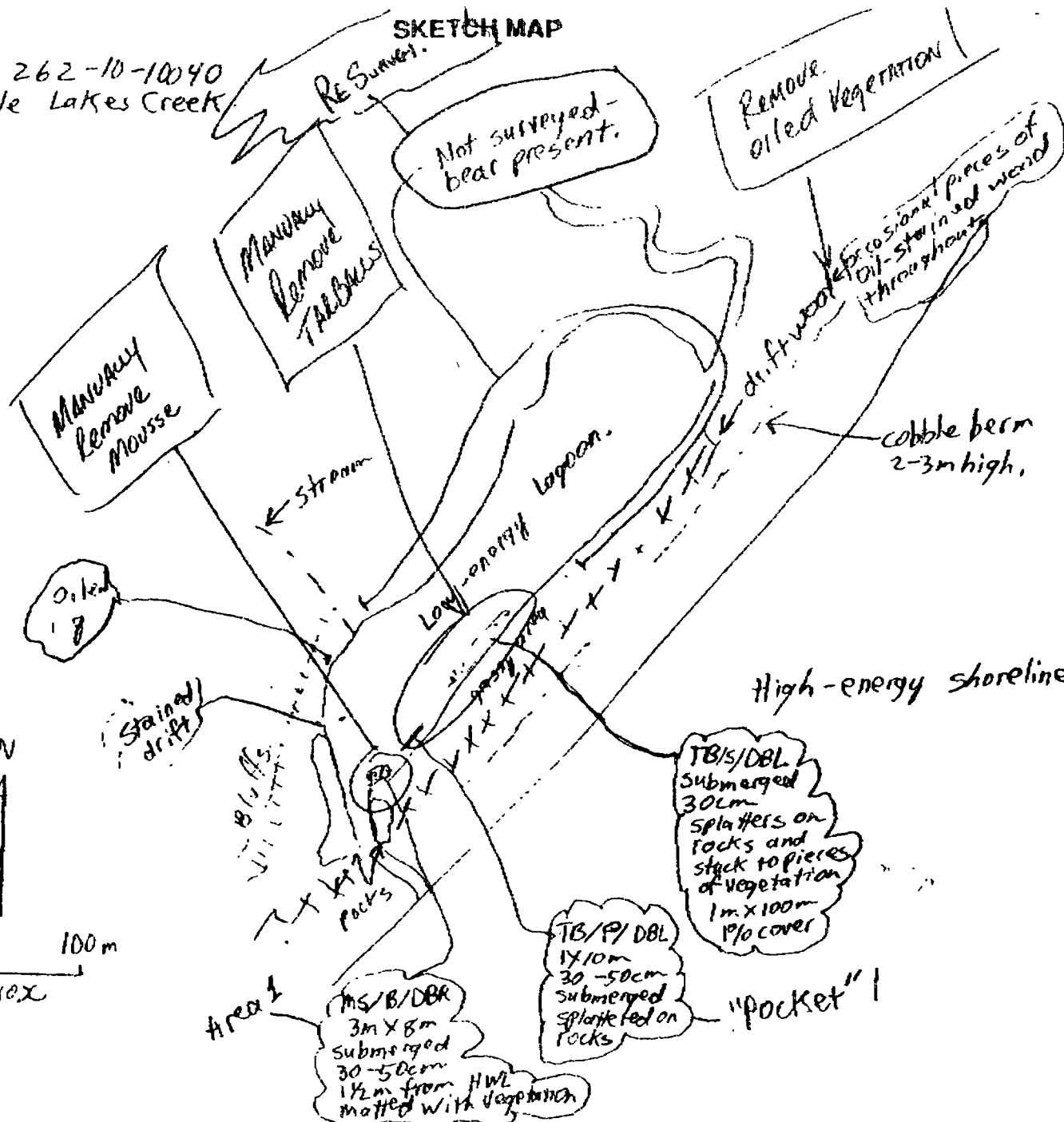
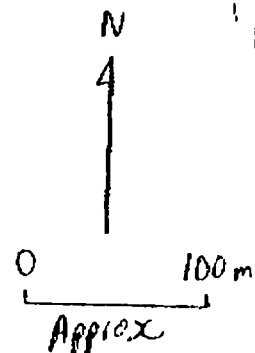
CT/B Broken Distribution

CT/P Patchy Distribution

CT/S Splashed Distribution

Oil Vegetation

Photo location, direction, and number



Oil Character Length (m) AP PO CV CT ST MS 8 PT TB 110 FL NO 232 U 550

FIELD SHORELINE COMMENT SHEET

SEGMENT ST 1 K-0912 SUBDIVISION: ASC 362-10-10040 DATE 02 MAY 90

USCG

NAME Kenwin L. Dreher SIGNATURE CWO K. L. Dreher

☒ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

COMMENTS

NOTE: The most shore line of the larger lagoon was still snow covered. I suggest re-surveying this area after the snow melts back. The area I did survey (the east shore) had <1% stained driftwood and minimal very weathered/dry splinter on small submerged cobbles.

~~ADFC~~ → ADFC

NAME EDWARD W. WEISS SIGNATURE Edward W. Weiss

☐ NO TREATMENT RECOMMENDED

☒ TREATMENT SUGGESTED

COMMENTS

LAGOON SEGMENT IS LOW ENERGY AND RATTIES AND COVER ON COBBLES DO PRODUCE SLIGHT GREEN WHEN RUBBED, THIS GREEN DOES DISAPPEAR READILY IN WATER. STREAM NEEDS TO BE RESURVEYED FULLY WHEN SNOW COVER MELTS AND WATER LEVEL IS DOWN. BANDS OF (PT, TB, CV, ST)/P IS CURRENTLY 12-24" BENEATH WATER SURFACE. CLEANUP WOULD ALSO HAVE TO WAIT UNTIL WATER LEVEL RECEDES. OIL IS ONLY PARTIALLY VISIBLE DUE TO WATER BEATH AND SILT.

~~LAND MANAGER~~ → NPS

NAME Carl Scheeh SIGNATURE Carl Scheeh

☒ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

ACE 1949922

COMMENTS

This lagoon should be resurveyed at a lower water level in order to determine the exact extent and degree of oiling. This document represents a partial survey only. Based on these findings the observed oil on debris and cobbles should be removed. This lagoon/estuary system is very protected and oil will persist for a long time unless removed. Oil can be removed by wiping with sorbent towels or removing with skimmers. Cleanup should not begin until water recedes.

OG CAL LARSON USCG DEALER CWE SEGMENT ST/2-002 xx 500
 BIO KEN CRITCHFIELD LAND REP CARL SCHOCH STREAM 242-1370481 OF
 EXXON DARUL YOE ADPS ED WIGGS TIME 2:10:35
 TEAM NO. 14 TIDE LEVEL +1.9 DATE 5/2/90
 EST. SUBDIVISION LENGTH: 200 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R 55 % B 45 % C 00 % P 10 % G 5 % S 5 % M 5 % V
 SLOPE: Long 55 % Hang 45 % Vert 5 % WAVE EXPOSURE: ☐ Low ☐ Med ☒ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 150 m NO 50

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR				IMPACTED ZONES			
	A	B	P	R	SW	SE	NE	NW	SW	SE	NE	NW
ASPHALT PAVEMENT												
POOLED												
COVER												
COAT												
STAIN				✓		✓				✓		
MOUSSE												
PATTIES				✓		✓				✓		
TARBALLS				✓		✓				✓		
FILM												
NO OIL									✓		✓	✓

PAVEMENT H P S 0 sq. m by 0PATTIES / TARBALLS 2 BAGNEAR SHORE SHEEN? NO BR RW SL TL

OILED DEBRIS	AMOUNT	
	SM	MOLO
Logs		✓
Vegetation	✓	
Trash		
Debris		

Did you color DEBRIS

☐ YES ☒ NOTYPE 0#BAGS 0

Photographs:

Roll No. _____

Frames _____

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL	BELOW	OIL / FILM COLOR				PIT ZONE	A N A	SHEEN (mm)	SURFACE SUBSURFACE SEDIMENT
		OP	OH	OL	OF	NO			SW	SE	NE	NW				

COMMENTS DUE TO SPRING RUN OFF BACK TIDAL LAGOON AFTER WATER LEVEL
 WAS HIGHER, OIL / DRIPS, SPLATTER, PATTIES WERE UNDER
 WATER. OIL OBSERVED WAS HEAVILY WATERED. SOME
 OILED GLASSES WERE OBSERVED ALONG BANK OF BACK
 SHORE IN LAGOON. NO PITS DUG.

REVIEWED JWDATE 5/4/90

ACE 1949923

OG CAL LARSON

SEGMENT ST/K-0912

STREAM 262-10-10090

DATE 5, 2, 90

CHECKLIST

- ☐ Name
- ☐ Approx. Scale
- ☐ Ego/Study Body
- ☐ Co Dht
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. FISHABLE
- ☐ SSI
- ☐ Profile Location(s)
- ☐ Photo(s)
- ☐ Pk Location(s)
- ☐ Photo Location(s)

LEGEND

1 Δ

Pk - No Substrate Oil

2 Δ

Pk - Substrate Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

Spotted Distribution

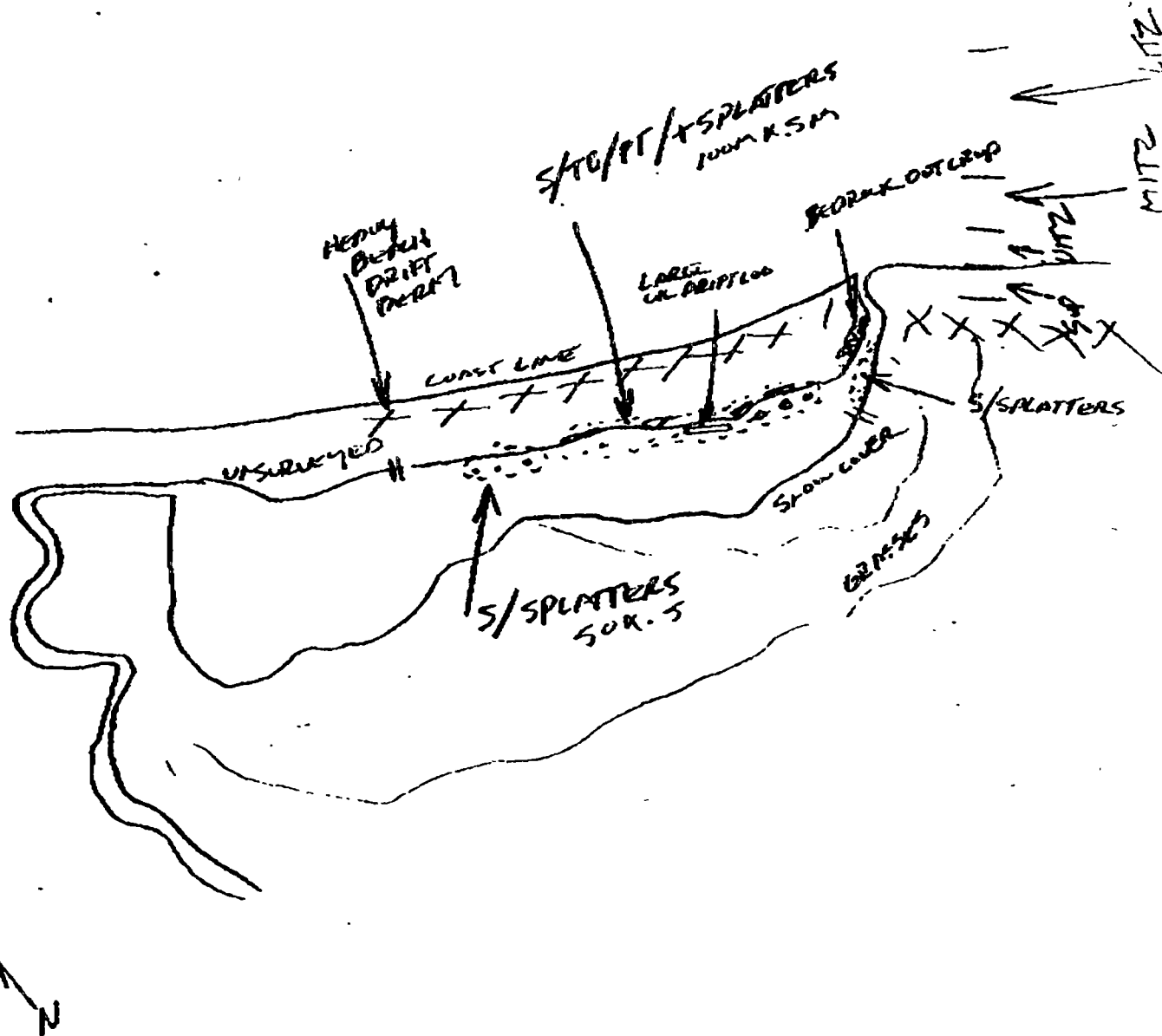
lll

Old Vegetation

1 ●

Photo location, direction,
and number

SKETCH MAP



ACE 1949924

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

REVISION 200000

JUL 05 '90 13:55 DEPT-ANCH-HABIA

ADFG MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS 2 03 TS AVS SCM NOBS PTA2 REGION: PWS XP CI K DEMETHOD: Aerial Ground Boat3 DATE: 5/2/9015 HIGH TIDE TIMES: 121 TEAM MEMBER: E. W. BISS4 START TIME: 184016 HIGH TIDE HTS: 122 OBSERVERS: K. SCHOCK, C. LARSON5 STOP TIME: 163517 LOW TIDE TIMES: 155023 AGENTS: ADFG/EXXON/NAS/WW6 SEGMENT #: XX30018 LOW TIDE HTS: 124 PHOTOS TAKEN: Y N7 STATION #: 19 TIDE HT AT SURVEY: Roll #: Frames: 8 E-UNIT: K0912

20 Stock Flood Stock

25 VIDEO TAKEN: Y X TAPES: 9 STAT AREA: 23 UCCS QUAD: AF09NAR C-5Start: End: 10 LAT: 11 LONG: 26 SAMPLES TAKEN: Y N NEED12 SOURCES: Rep Local017 90EW004K13 LOCATION: DOUGLAS REEF AREA, AK PENINSULASeafloor: 14 DESCRIPTION: 21.3 NW OF VABM "DARK"Biological: Water:

EXTENT OF OIL

	SHORELINE				STREAM			
	L	M	HP	S	L	M	HP	S
27 SURFACE COVERAGE								
28 SURFACE THICKNESS								
29 PENETRATION								

30 CATALOGED AND FISH BREAST: Y N31 CATALOG #: 262-10-1004032 STREAM NAME: TRIPLE LAKES CREEK33 OIL IN STREAM BED: Y N34 OIL ON STREAM BANKS: Y N35 OVERALL OIL IMPACT: N VL 1 N N36 OIL ON BEACH ADJACENT TO MOUTH: Y N
(within 50 meters)37 OIL TYPE: Pooled Residue Tar Asphalt Sludge Soot38 OIL WITHIN 1 MILE OF STREAM: Y N38 OILER ORIGIN: Y NShore: 39 SHORELINE TYPE: Headland Lowlying Beach Beach Cove39 AMERICAN FISH PRESENT: Y N40 WAVE EXPOSURE: High Medium Low40 AMERICAN FISH OBSERVATION
Species: Aerial: Ground: 41 SUBSTRATE TYPE: Substrate Gravel Cobble 23Gravel 35 Sand 40

ACE 1949925

COMMENTS: BAND OF OIL CV ST Y/P BEGINNING AT MOUTH
CONTINUING ON AROUND EAST BANK OF LAGOON. BAND
IS AT NORMAL LOW TIDE AREA BUT DUE TO MELT OFF
IS 12-24" BELOW WATER'S SURFACE OF LAGOON AT LOW TIDE.
ONLY SURVEYED 1/3 OF LAGOON. 1/3 COVERED WITH SNOW. 1/3 UNCOVERED
DUE TO TIME CONSTRAINTS. MOUSSE FAIRLY WEATHERED BUT STILL

48 PHOTOLOG

FRAME(S)

DESCRIPTION

48 OIL DISTRIBUTION DIAGRAM

RECOMMEND: FULL SSAT / ANADSSAT SURVEY BE
 CONDUCTED AT LATER DATE, WHEN SNOW COVER
 MELTED AND WATER LEVEL DOWN. MANY PAME
 HARD TO SACT DUE TO WATER DEPTH AND
 SILT COVER WOULD BE MORE VISIBLE WITH
 LOWER WATER.

ALSO RECOMMEND MANUAL PICKUP CASES ON 1/3
 SURVEYED BUT NOT UNTIL WATER GOES DOWN AND
 IMPACT IS ACCESSABLE.

ALSO HAD TB:ST/S AND ST CT/L/SM ON BANK
 OF LAGOON ABOVE WATER LEVEL. *Dwin*

- Sample taken
- Photo frame # and
shot direction.

ACE 1949926

STATE OF ALASKA

DEPARTMENT OF FISH AND GAME

STEVE COWPER, GOVERNING

Rapifax 349-1723

333 RASPBERRY ROAD
ANCHORAGE, ALASKA 99515-1001
PHONE: (907) 344-0841

RAPIFAX TRANSMITTAL SHEET

TO: Tom Kelly
Exxon - Anch.

DATE: 5-19-90

No. Pages: 3
(including this page)

FROM: Ed Weiss
AF&G Kodiak

MESSAGE:

DIA NOT MAKE DIAGRAM USED
ANASSAT OR DIAGRAM.

OG CL LARSON

1:100

SEGMENT ST/K-0912

SKETCH MAP

STREAM 262-10-10490

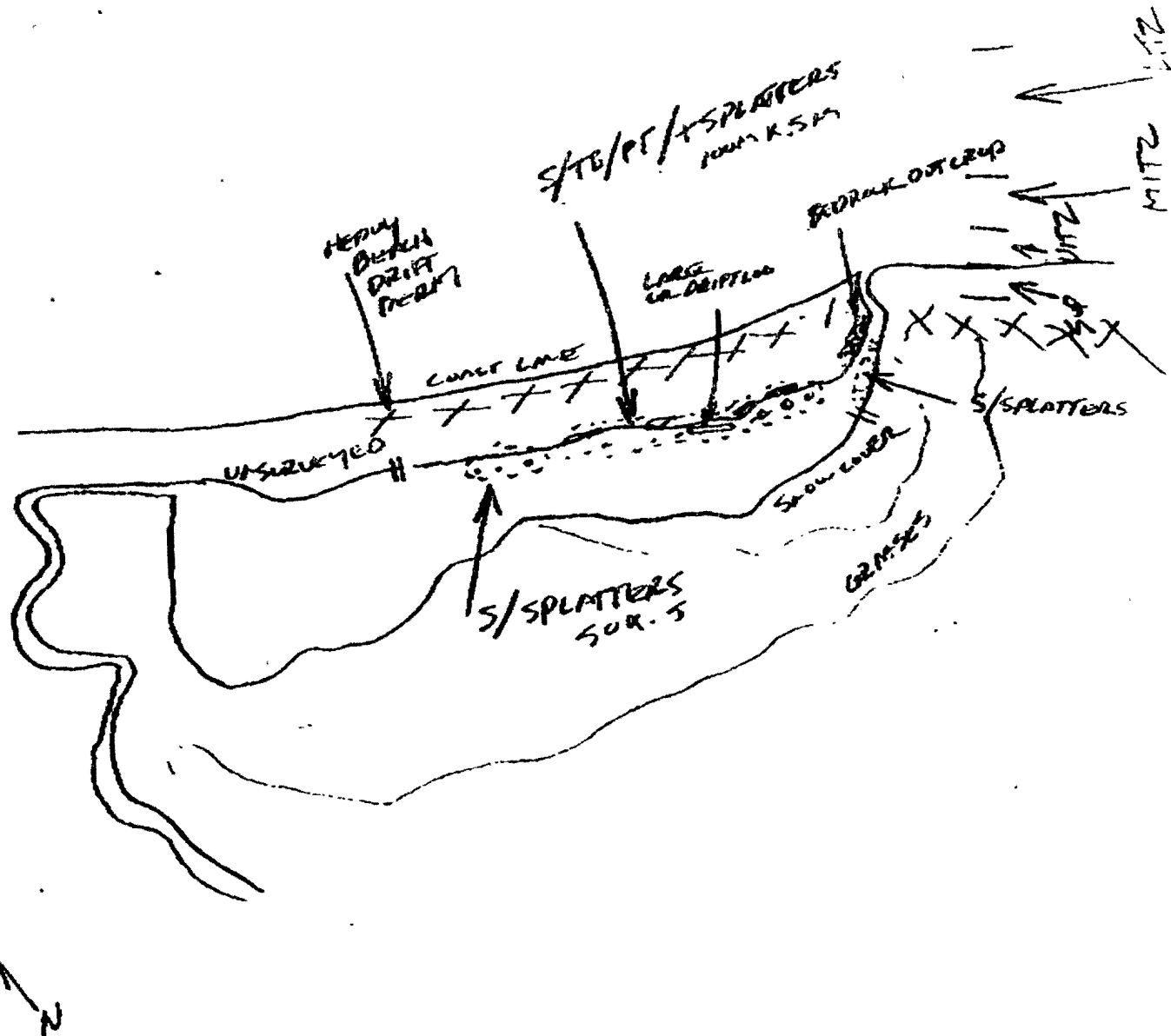
DATE 5/2/90

CHECKLIST

- ☐ S Area
- ☐ Approx. Scale
- ☐ Sog/Dist. Ready
- ☐ On Dist.
- ☐ Width
- ☐ Length
- ☐ S. Cover
- ☐ Substrate Character
- ☐ Est. HABITAT
- ☐ SSI
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ Pk Location(s)
- ☐ Photo Location(s)

LEGEND

- 1 Δ
- Pk - No Substrate Ch
- 2 Δ
- Pk - Substrate Ch
- CT/C
- Continuous Distribution
- CT/B
- Broken Distribution
- CT/P
- Patchy Distribution
- CT/S
- Isolated Distribution
- lll
- Med Vegetation
- 1 ●
- Here location, direction, and number



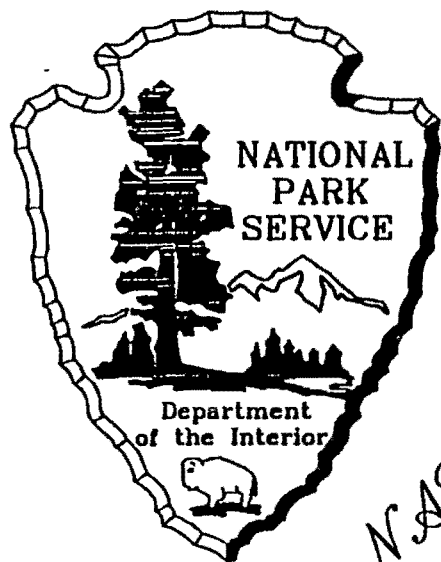
ACE 1949928 -/S

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

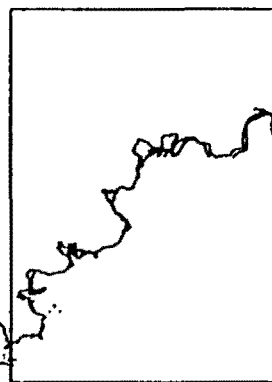
REVISION: 000000

ALL 05 '90 13:50 FISH & GAME HABITAT

P.16.47



*KATMAI NATIONAL PARK
AND PREYERRE*



KATMAI BAY

Ghelikof Strait

KUKAK BAY

HALLO BAY

SWIKSHAK BAY

CAPE DOUGLAS

Triple Lakes Creek



ACE 1949929 + / S

Shoreline Oil Assessment

Observer: Schoch Zone: Kadiak Segment #:

Date:.....5/2/90..... Place: Triple Lakes Cr. - Katmai.....

Time:.....1500..... Tide Height:.....Segment Length:.....me

Weather: cloudy sunny fog rain windy

Observations from: ground vessel helicopter

Upland Description: bedrock rubble alluvial fan grass forest
alders/willows marsh lagoon pond bluff

Upland Slope Angle: low medium, high vertical

Intertidal Slope Angle: low medium high vertical

Wave Exposure: low medium high Wave Type: swell cresting breaking no

Length of Beach:.....meters Width:.....meters

Impacted Area (length)

Total length of impacted area:.....meters

Wide: >6 m and >50% oil cover.....meters

Moderate: 3 m to 6m and 10% to 50% oil cover.....meters

Narrow: <3m and >10% oil cover.....meters

Very Light: <10% oil cover regardless of width (splatters).....mete

Subsurface Oil Assessment

Pit #	Oil Type	Matrix Size	Intertidal Location	Pit	Oiled Depth Interval	Pit Depth	% Sediment Saturation
-------	----------	-------------	---------------------	-----	----------------------	-----------	-----------------------

1

2

3

4

5

6

7

ACE 1949930

Supratidal

Observer:....Schuch.....Segment #:..Triple..Lakes..Cr...

Substrate	%	oil type	continuous	broken	patchy/numerous	spars
bedrock	$\emptyset$	asphalt				
		pooled				
boulder	$\emptyset$	cover				
		coat				
cobble	$\emptyset$	stain				
		mousse				
pebble	60	patties				
		tarballs				
sand	40	sheen				
		logs			See map	✓
silt/mud	$\emptyset$	plastic				
		dead algae				
organics	$\emptyset$	dead wildlife number and type $\emptyset$				

Upper Intertidal

Substrate	%	oil type	continuous	broken	patchy/numerous	sparse
bedrock	$\emptyset$	asphalt				
		pooled				
boulder	$\emptyset$	cover				✓
		coat				✓
cobble	30	stain				✓
		mousse				✓
pebble	30	patties				✓
		tarballs				
sand	30	sheen				
		logs				
silt/mud	30	plastic				
		dead algae				
organics		dead wildlife number and type				

ACE 1949931

Middle Intertidal

Observer:....Schuch.....Segment #:..Triple Lakes..C

Substrate	%	oil type	continuous	broken	patchy/numerous	spars
bedrock	}	asphalt				
		pooled				
boulder		cover				
		coat				
cobble		stain				
		mousse				
pebble		patties				
		tarballs				
sand		sheen				
		logs				
silt/mud	}	plastic				
		dead algae				
organics		dead wildlife number and type <i>Ø</i>				

NO OIL
OBSERVED

Lower Intertidal

Substrate	%	oil type	continuous	broken	patchy/numerous	spars
bedrock	}	asphalt				
		pooled				
boulder		cover				
		coat				
cobble		stain				
		mousse				
pebble		patties				
		tarballs				
sand		sheen				
		logs				
silt/mud	}	plastic				
		dead algae				
organics		dead wildlife number and type <i>α</i>				

NO OIL
OBSERVED

ACE 1949932

**Biological Assessment
of Oil Impacted Area**

Observer:... Schach... Segment #:... Triple Lakes

Intertidal Organism	Dense	Moderate	Sparse	Rare	Juvenile	Mortality
Barnacles						
Mussels						
Littorina						
Nucella						
Limpets						
Amphipods						
Isopods						
Echinoderms						
Fucus						
Other Algae						

Marine Mammal Observations:

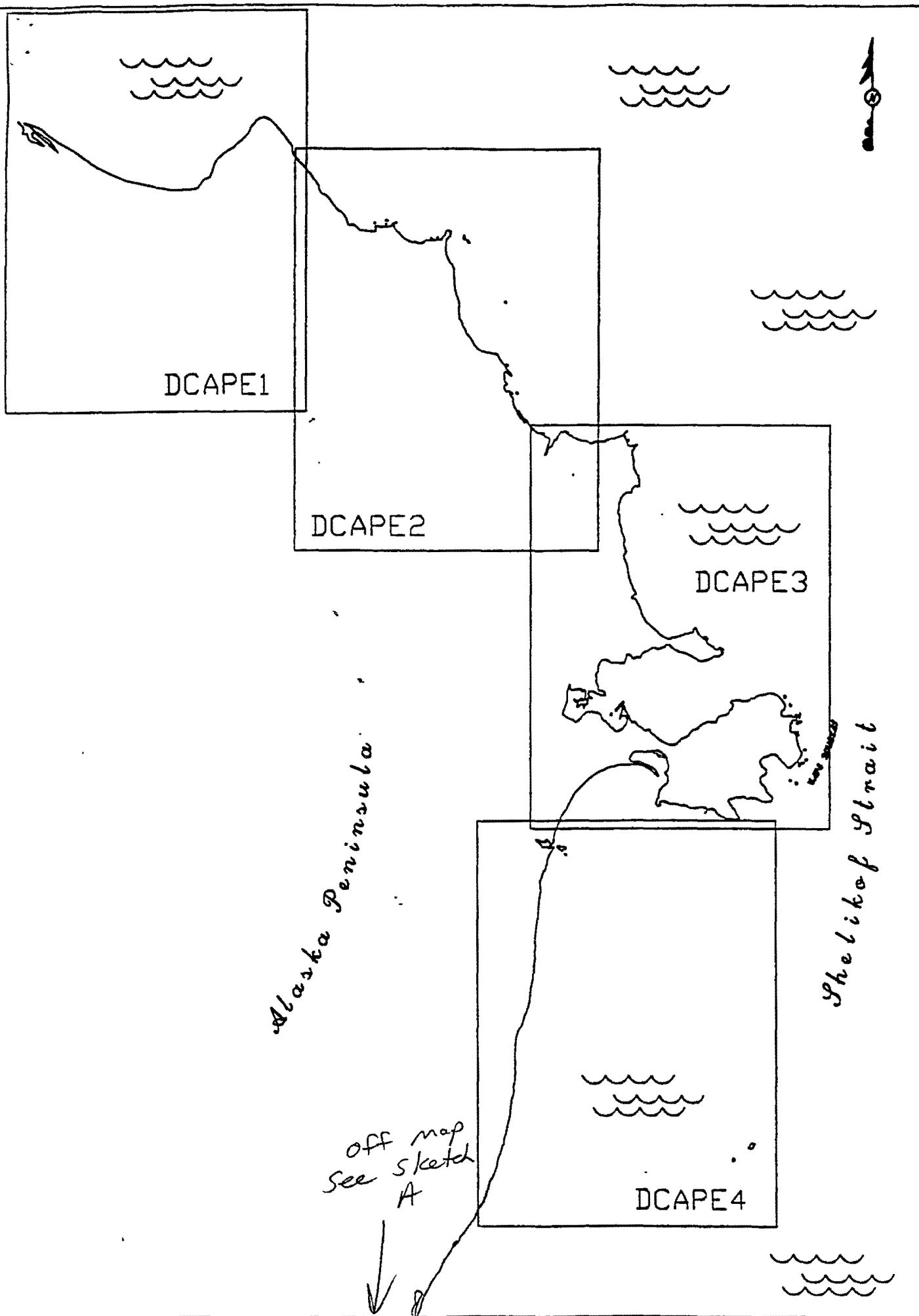
Terrestrial Mammal Observations:

Bird Observations:

General Observations:

----- This lagoon should be resurveyed at a lower
----- water level. The observed oil should be removed
----- by wiping rocks with sorbent towels or removing
----- with shovels

ACE 1949933



DCAPE1

DCAPE2

DCAPE3

DCAPE4

Alaska Peninsula

Shelikof Strait

*off map
See sketch
A*

CAPE DOUGLAS

METERS

Triple Lakes Cree

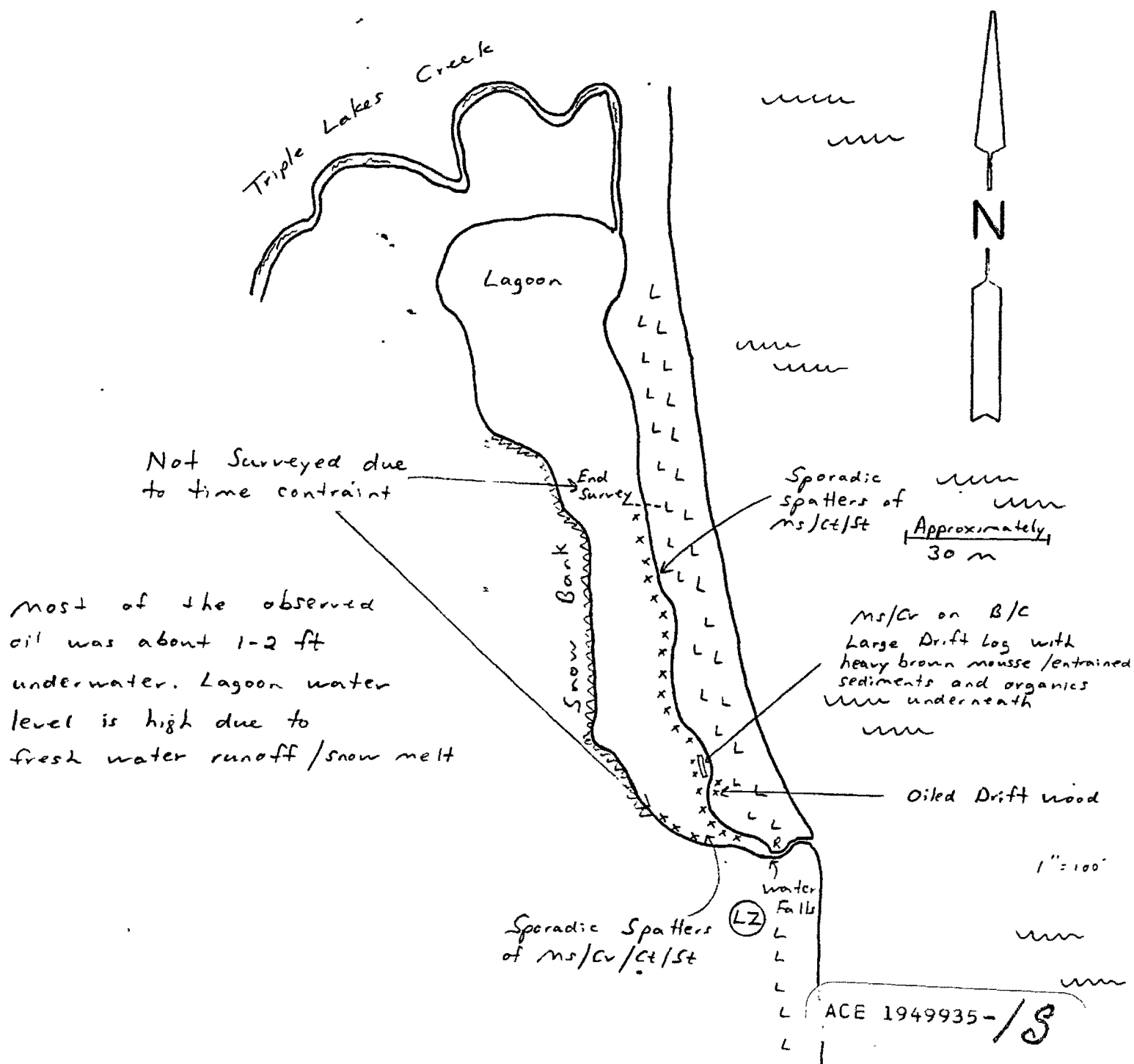
5/2/90

Schoch - Sketch A

L - Drift Logs

x - Scattered ms/ct/st

~ - Stream



STATE OF ALASKA

DEPARTMENT OF FISH AND GAME

STEVE COWPER, GOVERNOR

Rapifax 349-1723

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

RAPIFAX TRANSMITTAL SHEET

TO: Ken Middleton
Anchorage Habitat

DATE: 5/7/90

No. Pages: 9
(including this page)

FROM: J. BARNHART
Kodiak Habitat

MESSAGE: Triple Lakes creek, Douglas Reef Area, AK Pen,
Stream # 262-10-10040
Segment # XX500

ACE 1949936 +/S

FIELD SHORELINE COMMENT SHEET

TRIPLE LAKES
CREEKSEGMENT ST/ K-0912 SUBDIVISION: ^{ASC#} 262-10-10040 DATE 02 MAY 90

USCG

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

COMMENTS

NOTE: The west shore line of the larger lagoon was still snow covered.

* I suggest re-surveying this area after the snow melts back. The area I did survey (the east shore) had <1% stained driftwood and minimal very weathered/dry splatter on small submerged cobbles.

~~ADEG~~ → ADFGNAME EDWARD W. WEISS SIGNATURE Edward W. Weiss☐ NO TREATMENT RECOMMENDED☒ TREATMENT SUGGESTED

COMMENTS

LAGOON SEGMENT IS LOW ENERGY AND PATCHES AND COVER ON COBBLES DO PRODUCE SLIGHT SHEEN WHEN RUBBED. THIS SHEEN DOES DISAPPEAR READILY IN WATER. STREAM NEEDS TO BE RESURVEYED FULLY WHEN SNOW COVER MELTS AND WATER LEVEL IS DOWN. BAND OF (PT, TB, CV, ST)/P IS CURRENTLY 12-24" BENEATH WATER'S SURFACE. CLEANUP WOULD ALSO HAVE TO WAIT UNTIL WATER LEVEL RECESSES. OIL IS ONLY PARTIALLY VISIBLE DUE TO WATER DEPTH AND SILT.

~~LAND MANAGER~~ → NPSNAME Carl Schoch SIGNATURE Carl Schoch☒ NO TREATMENT RECOMMENDED☐ TREATMENT SUGGESTED

ACE 1949937

COMMENTS

This lagoon should be resurveyed at a lower water level in order to determine the exact extent and degree of oiling.

* This document represents a partial survey only. Based on these findings the observed oil on debris and cobbles should be removed. This lagoon/estuary system is very protected and oil will persist for a long time unless removed. Oil can be removed by wiping with sorbent towels or removing with shovels. Cleanup should not begin until water recedes.

ANAD
SSAT DATA ENTRY FORM

PAGE 1 OF 2

GENERAL DATA

SEG ID: K-0912 262-10 SUBDIV: XX-500 10040 TEAM: 14 SURVEY DATE: 5/2/90
PAVEMENT: CHAR — AREA — THICKNESS — TARBALLS X
OILED: LGS MD VEG SM TRH — DBR — WAVE EXP: LW — MD — HG X
FAX RCVD: — DT: — AGENCY DISAGREE: —
EST SUBDIV LGTH: 200 OIL CATEGORY: W — M — N — VL 150 NO — U —

SURFACE DATA

SURFACE SEDIMENT: BRK — BLD — COB 80 PEB 10 GRN 5 SAN 5 MUD — VEG —

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

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

CHAR #: 3 OIL CHAR: TB OIL DIST: CONT — BRKN — PTCH — SPLH X
OIL CLR: DBL FILM CLR: RW TIDAL ZONE: SU — UI X 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 —

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

ACE 1949938

NO PITS Dug

ANAD

SSAT DATA ENTRY FORM

SUBSURFACE DATA

PAGE 2 OF 2

SEGMENT ID: K-0912 262-10
XX-500 SUBDIV: 10040

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

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

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

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

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

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

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

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

PROBLEMS: _____

ACE 1949939

SHORELINE OILING SUMMARY (ANAD)

REVISION NO. 04/13/90

OG CAL LARSON USCG DREHER, CWE SEGMENT ST/ K-0912 XX 500
 BIO KEN CRITCHLOW LAND REP CARL SCHOCH STREAM 242-10-10040 (OF)
 EXXON DARLYL YOE ADFG ED WIKSS TIME 3:40 to 4:35
 TEAM NO. 14 TIDE LEVEL +1.9 DATE 5/12/90
 EST. SUBDIVISION LENGTH: 200 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R % B % C 80 % P 10 % G 5 % S 5 % M % V %
 SLOPE: Lang 55 % Hang 45 % Vert % WAVE EXPOSURE: ☐ Low ☐ Med ☒ High
 OIL CATEGORY LENGTH: W m M m N m VL 150 m NO 50 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR						IMPACTED ZONES			
	FC	FB	FP	FS	BR	RW	SL	TL	LB		SU	UI	M	U
ASPHALT PAVEMENT														
POOLED														
COVER														
COAT														
STAIN				✓		✓						✓		
MOUSSE														
PATTIES				✓		✓						✓		
TARBALLS				✓		✓						✓		
FILM														
NO OIL											✓		✓	✓

PAVEMENT H F S sq. m by cmPATTIES / TARBALLS 2 BAGSNEAR SHORE SHEEN? (NO) BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs		✓	
Vegetation	✓		
Trash			
Debris			

Did You Collect DEBRIS?
☐ YES ☒ NO

TYPE #BAGS

Photographs:

Roll No. Frames

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CH)	BELOW		OIL / FILM COLOR						PIT ZONE				A N A	SHEEN (Y/N)	▽	SURFACE - SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UO	UC	BR	RW	SL	TL	LB		SU	UI	M	U				

COMMENTS DUE TO SPRING RUN OFF BACK TIDAL LAGOON AREA WATER LEVEL WAS HIGHER, OIL/DRIPS, SPLATTER, PATTIES WERE UNDER WATER. OIL OBSERVED WAS HEAVILY WEATHERED. SOME OILED GRASSES WERE OBSERVED ALONG BANK OF BACK SHORE IN LAGOON. NO PITS DUG.

REVIEWED DATE

ACE 1949940

OG CALLARSON

1" = 100'

SKETCH MAP

SEGMENT ST/ K-0912

STREAM 262-10-10040

DATE 5, 2 90

CHECKLIST

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

LEGEND

1 ▲

Pit - No Subsurface Oil

2 ▲

Pit - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

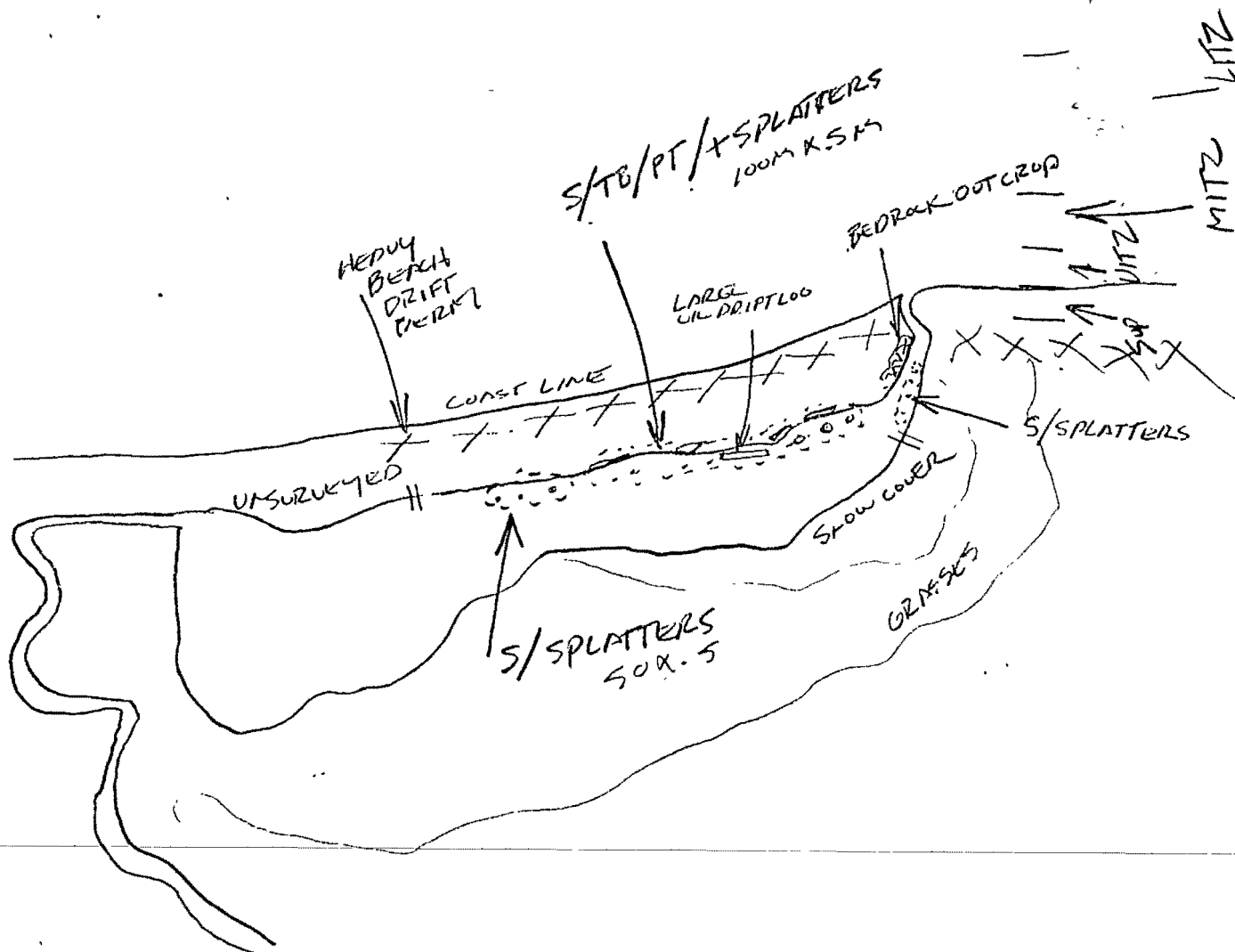
Splashed Distribution

lll

Oiled Vegetation

1 ➔

Photo location, direction,
and number



ACE 1949941

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

REVISION: 03/24/90

OPERATIONS FIELD NOTES

See Back for Instructions

SEGMENT ID ANAD XX-500

STREAM ID # 262-10-10040 (TRIPLE LAKE CREEK)

ANNOTATED MAP INCLUDED Y/N

DATE 5-2-90

NAME DARRYL YOEJ

TEAM # 14

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

SUBSURFACE OIL

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

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

MANUAL PICKUP	Type of Debris			In Meters		
	Mousse	Oiled Veget	Cleanup Debris	Length	Width	# of Bags
"Pocket" #1	<u>✓</u>			<u>100</u>	<u>0.5</u>	<u>< 1</u>
"Pocket" #2						
"Pocket" #3						
Random/Continuous						

Pickup Y/N	Manday Estimate
<u>N</u>	<u>—</u>

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

MINOR SPLASH STAINS - NOT MOBILE

Is there Other Debris on the Beach? Y/N How Many Bags? 2 Is it mingled with the Oiled Debris Y/N

LOGS AND FISHING DEBRIS

GENERAL

Snow covering 20 % of the Supratidal Zone?

Wave Exposure H/M/L

Access Limitations: VERY DIFFICULT FROM BOAT

Snare Boom/Pom Poms Recommended? No

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

COMMENTS:

NO TREATMENT RECOMMENDED. SPLASH STAINS ON ROCKS IN STREAM BED ARE VERY WEATHERED - IT WILL NOT PRODUCE SHEEN IN WATER WHEN RUBBED AND IS NOT MOBILE. MINOR SPLASH STAINS ON SOME DRIFT WOOD IS ALSO WELL WEATHERED.

ACE 1949942

Seg ID: XX-500

Subdiv: 262-10-10040

Survey Date: 5/2/90

Comments by: Ken Critchlow

The beach at this stream site is very high energy characterized by well-rounded pebble and cobble. A bedrock outcrop guards the stream mouth which breaks through a high storm berm and large log jam. The beach was depauperate.

A very large lagoon was present behind the storm berm. The backshore was about 50 percent covered by snow and couldn't be surveyed. About half of the remaining shore was surveyed. Small amounts of tarballs and patties were observed in the grass at the water's edge. Some mousse was present on submerged cobble in the lagoon. The extent of oiling of submerged rocks couldn't be determined.

Large numbers of water fowl were observed at the north end of the lagoon. The area is obviously used for feeding and possibly nesting.

KR Critchlow

A brown bear skull (no mandible or teeth) was found at the water's edge in the lagoon. It was left in place.

ADF&G MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS SS DS TS AVS SCHA MMS PTA2 REGION: PWS KP, CI K, APMETHOD: Aerial Ground Boat3 DATE: 5/2/9015 HIGH TIDE TIMES: 121 TEAM RECORDER: E. WEISS4 START TIME: 154016 HIGH TIDE HTS: 122 OBSERVERS: K. SCHOCK, C. CARSON
D. YOE, K. KRITCHLOW5 STOP TIME: 163517 LOW TIDE TIMES: 155023 AGENCY: ADFG/EXXON/NAS/WW6 SEGMENT #: XX50018 LOW TIDE HTS: 1

24 PHOTOS TAKEN: Y N

7 STATION #: _____

19 TIDE HT AT SURVEY: _____

Roll #: _____ Frames: _____

8 K-UNIT: K0912

Ebb Slack Flood Slack

25 VIDEO TAKEN: Y X TAPE#: _____

9 STAT AREA: _____

20 USCG QUAD: AFOGNAK C-5

Start: _____ End: _____

10 LAT: _____

11 LONG: _____

26 SAMPLES TAKEN? Y N Number

12 SOURCE: Map Loran

011 90EW0004K13 LOCATION: DOUGLAS REEF AREA, AIK PENINSULA

Sediment _____

14 DESCRIPTION: ~1.5 NW OF VABM "DARK"

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

37 CATALOG #: 262-10-10040

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

38 STREAM NAME: TRIPLE LAKES CREEK30 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 N41 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 Low44 ANADROMOUS FISH OBSERVATION
Species Aerial Ground35 SUBSTRATE TYPE: Bedrock _____ Boulder _____ Cobble 25Gravel 35 Sand _____ Mud/silt 40

COMMENTS: BAND OF (PT, TB, CV, ST) 1/P BEGINNING AT MOUTHCONTINUING ON AROUND EAST BANK OF LAGOON. BANDIS AT NORMAL LOW TIDAL AREA BUT DUE TO MELT OFFIS 12-24" BELOW WATER'S SURFACE OF LAGOON AT LOW TIDE.ONLY SURVEYED 1/3 OF LAGOON, 1/3 COVERED WITH SNOW, 1/3 UNSURVEYEDDUE TO TIME CONSTRAINTS. MOUSSE FAIRLY WEATHERED BUT STILLLETS OFF SHEEN WHEN RUBBED. SHEEN DISSIPATES READILY IN WATER
OVER 2

ADF&G MULTI-ASSESSMENT FORM
1991 GENERAL ENTRY CHECKLIST



STREAM#: 2621010040
SEGMENT: XX500

PAGE 43

DATE PRINTED: 06/21/91

LOCATION: CAPE DOUGLAS, SOUTH OF

SURVEY TYPE: 91 MAYSAP - SS

METHOD: GROUND

DATE: 05/20/91

TEAM RECORDER: BARNHART

START TIME: 1450

OBSERVERS: BENNIS SPURR HEROLDSON

END TIME: 1500

OG/HAB DISCREPANCIES: -

AGENCY: FG NPS USCG EXX

PHOTOS TAKEN: N

STATION: 2621010040

ROLL#: -0-

FRAME: -0-

VIDEO TAKEN: N

TAPE#: -0-

START: -0-

END: -0-

SAMPLES TAKEN: N

SAMPLE NUMBERS: -0-

-0-

-0-

-0-

-0-

-0-

OIL IN STREAM BED: -

OVERALL OIL IMPACT: -0-

OIL ON BEACH BY MOUTH: -

WAVE EXPOSURE: LOW

SHORELINE TYPE: LAGOON

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

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

ANADROMOUS FISH PRESENT: N

SPECIES: -0-

COUNT: -0-

-0-

-0-

-0-

-0-

-0-

-0-

-0-

-0-

ADF&G MULTI-ASSESSMENT FORM
1991 OILING ENTRY CHECKLIST



PAGE 50

DATE PRINTED: 06/21/91

STREAM# : 2621010040
SEGMENT#: XX500

SURVEY TYPE : 91 MAYSAP - SS
DATE: 05/20/91
TIMES: 1450 - 1500

LOCATION: CAPE DOUGLAS, SOUTH OF
TEAM RECORDER: BARNHART

-- OILING EXTENT --

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

COMMENTS:

UNABLE TO EVALUATE OIL DUE TO FOUR FEET OF WATER OVER THE OIL BAND. WILL
NEED RE-ASSESSMENT. *OK*

ADF&G MULTI-ASSESSMENT DATA FORM

- 1) SURVEY TYPE: BS SS 2) REGION: PWS KP, CI K, AP
- 3) METHOD: Aerial Ground Boat
- 4) DATE: 5-20-91 16) HIGH TIDE TIME: 0801/2111 22) TEAM RECORDER: J. Barnhart
- 5) START TIME: 1450 17) HIGH TIDE HTS: 15.7/16.1 23) OBSERVERS: F. Bennis, D. Spurr, R. Heraldson and others.
- 6) STOP TIME: 1500 18) LOW TIDE TIMES: 0157/1429 24) AGENCY: ADF&G, NPS, USCG, Exxon
- 7) SEGMENT #: XX500 19) LOW TIDE HTS: 3.7/0.2 25) PHOTOS TAKEN: Y N
- 8) K-UNIT: K09-12 20) TIDE HT AT SURVEY: _____ ROLL #: _____ FRAMES: _____
- 9) LAT: _____ Ebb Slack Flood Slack 26) VIDEO TAKEN: Y N
- 10) LONG: _____ 21) USCG QUAD: _____ TAPE #: _____
- 11) ASC #: 262-10-10040 START: _____ STOP: _____
- 12) STREAM NAME: Triple Lakes Creek 27) SAMPLES TAKEN? Y N
- 13) LOCATION: Approx 11 air miles South of Cape Douglas, AK Pen. SAMPLE I.D. _____
- 14) WAVE EXPOSURE: High Moderate Low _____
- 15) SHORELINE TYPE: Headland Low-lying Rocks Beach _____
- Cove Lagoon Marsh _____

28) EXTENT OF OIL

	LENGTH m	WIDTH m	M2	%	THICK cm	PEN cm	OIL TYPE
SITE 1	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>
SITE 2							
SITE 3							
SITE 4							
SITE 5							

29) OVERALL OIL IMPACT:

- H = >6m band with $\geq 50\%$ oil coverage
- M = >6m band with $\leq 50\%$ oil coverage or $\geq 3\text{m}$ to $\leq 6\text{m}$ with $\geq 10\%$ oil coverage
- L = <3m band with $> 10\%$ oil coverage
- VL = $\leq 10\%$ oil coverage regardless of band width
- N = No oil observed

33) ANADROMOUS FISH PRESENT: Y N

30) OIL IN STREAMBED: Y N

31) OIL ON BEACH ADJACENT TO MOUTH: Y N

32) SUBSTRATE TYPE (PERCENT):

Bedrock _____ Boulder _____ Gravel _____ Sand _____ Cobble _____ Mud/Silt _____

34) WILDLIFE OBSERVATION

Species _____ Number _____

35) COMMENTS: Unable To evaluate oil due to four feet of water over the oil band.
will need reassessment.

ENVIRONMENTAL SENSITIVITIES:

Ecological/Constraints (see page two for details) Anadromous stream

Consultation and inspection with an Exxon archaeologist is required prior to treatment. Specific on-site monitoring requirements will be determined at that time. PHONE 564-3276; 564-3657; (Anchorage) or 229-1514 (24 hrs.). *F. J. [unclear] 6/14/91*

Timothy Donith for SHPO 6/04/91

INITIAL

N

TAG

Y

FOSC

Y

X

2

100

10

100

X

2

100

10

10

100

100



100

100

INITIAL:

TAG: MANUAL P/U OF EASILY ACCESSIBLE MS/AP/HBOR
AT SITES 2 + 3. IF POSSIBLE ASSESS SITE 1.
IF MS/AP PRESENT P/U

FOSC:

FOSC APPROVAL DATE: 6/9/91

ADEC

FOSC

EXXON

~~E. E. PAGE~~, CDR, USCG
CHIEF OF STAFF, FOSC

USCG

NOAA

APPASCAT
1991 MAYSAP EVALUATION

ASC# 262-10-10060
262-10-1240

SEGMENT: K0912XX500 SUB: M REGION: KOD SURVEY DATE: 5/20/91

ENVIRONMENTAL SENSITIVITIES:

Work Window(s) OPEN 5/1 - 7/10; RESTRICTED 7/10 - 9/15

Ecological/Constraints (see page two for details) Anadromous stream

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO Signature: _____ Date: _____

RECOMMENDATIONS:

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

COMMENTS:

INITIAL: Peavies site #1, 2 + 3 *+ P.U. MS/SOR if found* P.U. MS/SOR site

TAG: Agree

FOSC: _____

TAG APPROVAL DATE: _____

FOSC APPROVAL DATE: _____

ADEC _____

FOSC _____

EXXON _____

USCG _____

NOAA _____

**ECOLOGICAL CONSTRAINTS
1991 FIELD ACTIVITIES**

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

262-10-10060

ADEC

NAME J. BARNHART ADFGSIGNATURE Jeff Barnhart☐ NTR ☒ Treatment Recommended

① The bar mat in Triple Lakes creek (262-10-10040) was under approx. four feet of water. Recommend assessment at later date when water level is lower. ② AT Fourpeak Glacier (Stream 262-10-10060) The oiled area is located 20 meters from the stream bed. The band is 42 m long x 5 m wide, 50% oil coverage between the cobbles/boulders consisting of mousse/pooled oil, 9-15 cm in the thicker areas. Oil is oozing around and between cobbles. Brown oil pooled in small tidal pools. Treatment should consist of manual work with trowels to remove the thick fluid oil from between the cobbles. Cobbles, where possible, should be rolled over and the mousse removed from under them. ③ This site is located north of Fourpeak Glacier. 6m x 2m, 20% oil coverage, mousse 2-5 cm thick around cobbles/boulder. Treatment recommended using the same techniques as described for site #2.

☒ TREATMENT Suggested - CONCUR WITH ADFG/NPS Seav Gutter Kodiak Island Borough

EXXON

NAME R. HARRELSONSIGNATURE R C Harrelson☒ NTR

RECOVERY OF OILED MATERIAL AT SITE #2 WOULD BE A SLOW TEDIOUS PROCESS DUE TO THE BOULDER, CORBLE IMPOSITION OF THE BEACH. IT IS A HIGH ENERGY AREA AND AS THE BID REPORTS SHOWS RECOVERY IS PROGRESSING WELL. AT SITE #3 VEO WORKERS REMOVED ALL EASILY ACCESSIBLE OIL.

more streamers

262 10 10060

LANDMANAGER

NAME F. BENNESOF NPS☐ NTR☒ Treatment suggested.

Site 1 - No oil observed. Oiled areas described from past surveys are under water.

Site 2 - Band of oil 4-5 m wide x 42 m long is present 20 meters to the north of Four Peak Glacier Creek. This band has been previously undocumented. Oil exists in the lower part of the VITE as Mousse pooled under and between the C/B, varying in thickness from 1cm - 15cm, and as "SOR", ST, CT, and CV. Pending review by NPS, removal of recoverable oil in this location is suggested.

Site 3 - Small 4m x 6m band of MS/IV, ST, CT, Mousse could be retrieved if a clean-up were in the area.

USCG/NOAA

NAME CWO SPURIL / S. SHIGENAKASIGNATURE R. P. Spuril / Gary Shigenaka☐ NTR

Removal of oil in site 2 is strongly recommended due to its proximity to a road stream (262-10-10060). While clean-up team is at segment it is also recommended that the 4m x 6m band at site 3 be removed.

THREE SITES WITHIN THIS LENGTHY SEGMENT WERE TARGETED FOR EXAMINATION. SITE 1 WAS A STREAM-FED LAGOON THAT FLOWED ACROSS A ROUNDED COBBLE BEACH. PORTIONS OF THE LAGOON SHORELINE WERE FOUND TO BE OILED IN PREVIOUS SURVEYS; UNFORTUNATELY, A LARGE LOGJAM AT THE SOUTH END OF THE LAGOON CAUSED THOSE PORTIONS TO BE SUBMERGED AND UNSURVEYABLE. SITE 2 CONSISTED OF A BOULDER BEACH ADJACENT TO AN ANAPHOROUS STREAM, TO THE NORTHEAST OF SITE 1. A WIDE BAND OF OILING WAS ENCOUNTERED HERE, NEAR THE NORTHERN BANK OF THE STREAM—THIS SOR AND MOUSSE UNDER BOULDERS WAS MADE OBVIOUS IN THE RARE SUNSHINE ENJOYED TODAY, AS THE HEAT TENDED TO MOBILIZE THE RESIDUES INTO A MORE FLUID FORM. THE EXTENT OF OILING EXCEEDED THE CAPABILITIES OF THE VEO CREW AND SURVEY TEAM TO REMEDIATE—CONSENSUS OF THE TEAM WAS THAT A DEDICATED CLEANUP TEAM WOULD BE APPROPRIATE. SITE 3, FARTHER TO THE NORTHEAST, WAS A BOULDER BEACH THAT CONTAINED A PREVIOUSLY IDENTIFIED SECTION OF OILING—THIS WAS RELOCATED UNDER A PATCH OF BOULDERS COVERED WITH FILAMENTOUS GREEN ALGA, AND THIS PATCH WAS SIMILAR IN CHARACTER TO THE OILING OBSERVED AT SITE 2: SOR WITH LIQUID MOUSSE UNDER BOULDERS. NONE OF THIS MATERIAL WAS RECOVERED, AS IT ALSO EXCEEDED THE LIMITED CAPABILITIES OF THE SURVEY TEAM.

262-10-10060

ADEC

NAME J. BARNHART ADFGSIGNATURE Jeff Barnhart☐ NTR ☒ Treatment Recommended

① The tar mat in Triple Lakes creek (262-10-10040) was under approx. four feet of water. Recommend assessment at later date when water level is lower. ② AT Fourpeak Glacier (Stream 262-10-10060) The oiled area is located 20 meters from the stream bed. The band is 42 m long x 5 m wide, 50% oil coverage between the cobbles/boulders consisting of mousse/pooled oil, 9-15 cm in the thicker areas oil is oozing around and between cobbles. Brown oil pooled in small tidal pools. Treatment should consist of manual work with trowels to remove the thick fluid oil from between the cobbles. Cobbles, where possible, should be rolled over and the mousse removed from under them. ③ This site is located north of Fourpeak Glacier. 6m x 2m, 80% oil coverage, mousse 2-5 cm thick around cobbles/boulder. Treatment recommended using the same techniques as described for site #2.

☒ TREATMENT Suggested - CONCUR WITH ADFG/NPS Sean Gutter Kodiak Island Borough

EXXON

NAME R. HARRELSONSIGNATURE R C Harrelson☒ NTR

RECOVERY OF OILED MATERIAL AT SITE #2 WOULD BE A SLOW TEDIOUS PROCESS DUE TO THE BOULDER COBBLE IMPOSITION ON THE BEACH. IT IS A HIGH ENERGY AREA AND AS THE AID REPORTS SHOWS RECOVERY IS PROGRESSING WELL. AT SITE #3 VED WORKERS REMOVED ALL EASILY ACCESSIBLE OIL.

LANDMANAGER

NAME F. BENNESOF NPSSIGNATURE F. Benes☐ NTR☒ Treatment suggested.

Site 1 - No oil observed. Oiled areas described from past surveys are under water.

Site 2 - Band of oil 4-5 m wide x 42 m long is present 20 meters to the north of Four Peak Glacier Creek. This band has been previously undocumented. Oil exists in the lower part of the VITE as Mousse pooled under and between the C/B, varying in thickness from 1cm - 15cm, and as "SOR", ST, CT, and CV. Pending review by NPS, removal of recoverable oil in this location is suggested.

Site 3 - Small 4m x 6m band of MS/IAU, ST, CT, Mousse could be retrieved if a clean-up was in the area.

USCG/NOAA

NAME CWO SPURIL G. SHIGENAKASIGNATURE G. Shigenaka☐ NTR

Removal of oil in site 2 is strongly recommended due to its proximity to anadromous stream (262-10-10060). While clean-up team is at segment it is also recommended that the 4m x 6m band at site 3 be removed.

THREE SITES WITHIN THIS LENGTHY SEGMENT WERE TARGETED FOR EXAMINATION. SITE 1 WAS A STREAM-FED LAGOON THAT FLOWED ACROSS A ROUNDED COBBLE BEACH. PORTIONS OF THE LAGOON SHORELINE WERE FOUND TO BE OILED IN PREVIOUS SURVEYS; UNFORTUNATELY, A LARGE LOGJAM AT THE SOUTH END OF THE LAGOON CAUSED THOSE PORTIONS TO BE SUBMERGED AND UNSURVEYABLE. SITE 2 CONSISTED OF A BOULDER BEACH ADJACENT TO AN ANADROMOUS STREAM, TO THE NORTHEAST OF SITE 1. A WIDE BAND OF OILING WAS ENCOUNTERED HERE, NEAR THE NORTHERN BANK OF THE STREAM - THIS SOR AND MOUSSE UNDER BOULDERS WAS MADE OBVIOUS IN THE RARE SUNSHINE ENJOYED TODAY, AS THE HEAT TENDED TO MOBILIZE THE RESIDUES INTO A MORE FLUID FORM. THE EXTENT OF OILING EXCEEDED THE CAPABILITIES OF THE VECO CREW AND SURVEY TEAM TO REMEDIATE - CONSENSUS OF THE TEAM WAS THAT A DEDICATED CLEANUP TEAM WOULD BE APPROPRIATE. SITE 3, FARTHER TO THE NORTHEAST, WAS A BOULDER BEACH THAT CONTAINED A PREVIOUSLY IDENTIFIED SECTION OF OILING - THIS WAS RELOCATED UNDER A PATCH OF BOULDERS COVERED WITH FILAMENTOUS GREEN ALGA, AND THIS PATCH WAS SIMILAR IN CHARACTER TO THE OILING OBSERVED AT SITE 2: SOR WITH LIQUID MOUSSE UNDER BOULDERS. NONE OF THIS MATERIAL WAS RECOVERED, AS IT ALSO EXCEEDED THE LIMITED CAPABILITIES OF THE SURVEY TEAM.

TEAM NO. 6-Helo

OG D. Fitz Gerald

BIO H. Davis

SEGMENT K09-12-XX-500

ADEC J. Barnhart AD6F

LANDMANAGER F. Bennis for NPS

SUBDIVISION Am

EXXON R. Harrelson

USCG/NOAA CWO SPURR/G. SHIGENAKA

DATE 20 / MAY / 91

TIME 14 : 45 to 16 : 50

TIDE LEVEL 0 ft. to 30 ft.

ENERGY LEVEL: ☒ H ☐ M ☐ L

SURVEYED FROM: ☒ FOOT ☐ BOAT ☐ HELO

WEATHER: ☒ SUN ☐ CLOUDS ☐ FOG ☐ RAIN ☐ SNOW

TOTAL LENGTH SHORELINE SURVEYED: 600 m

NEAR SHORE SHEEN: ☐ BR ☐ RB ☐ SL ☒ NONE

EST OIL CATEGORY LENGTH: W — m M 40 m N ~~90~~ m VL 6 m NO 554 m US 10363 m

[illegible]

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

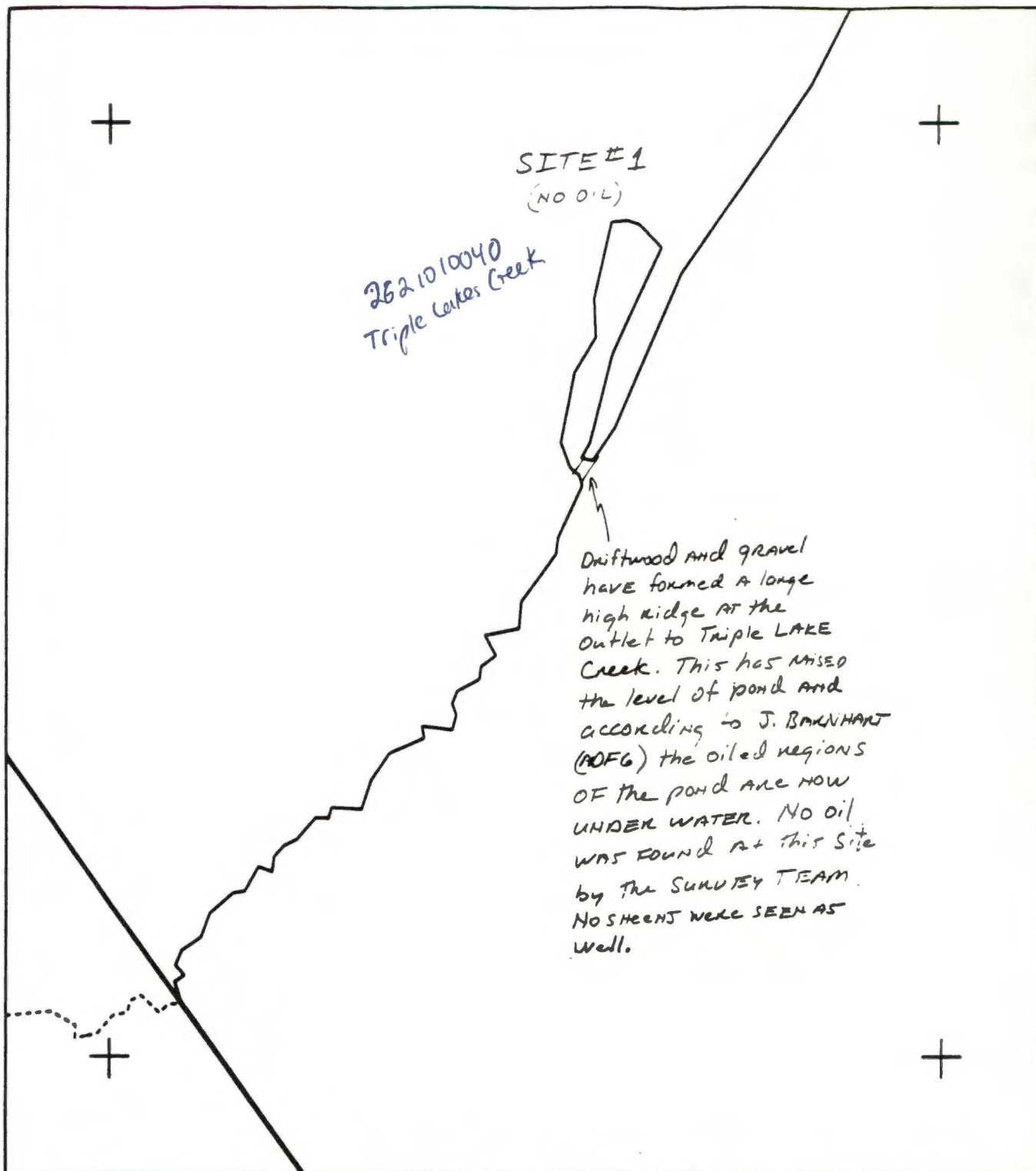
SLOPE. V = VERTICAL; H = HIGH ANGLE; M = MEDIUM ANGLE; L = LOW ANGLE PHOTO ROLL # MAYSAP- 6 - 18 FRAMES 13-19

[illegible]

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

OG COMMENTS: This segment is an exposed shoreline south of Cape Douglas. The sites visited along this segment included three stream mouths. At site #1 a gravel ridge has dammed the stream and raised the water level in the pond. No oil was observed at this site. At the other two sites MS/SOR occurred in a 40 and 6m length of the shoreline in the LITZ along the beachface in boulder-cobble areas. In some instances, a thin layer of pebbly sand covers the oil. In the warm sun the mousse produces flowing ribbons and small pools of oil.

Reviewed: MC 5/25/91
Reviewed 5.25.91



SITE #1
(NO OIL)

2621010040
Triple Lakes Creek

Driftwood and gravel
have formed a large
high ridge at the
outlet to Triple Lake
Creek. This has raised
the level of pond and
according to J. BARNHART
(ADFG) the oiled regions
of the pond are now
UNDER WATER. NO OIL
WAS FOUND AT THIS SITE
by THE SURVEY TEAM.
NO SHEETS WERE SEEN AS
WELL.



K0912 XX500 AM

METERS



AK State Plane Zone 4
602122500000

Subdivision Field Map

Map Key: 60200122500000

Name: D. Fitzgerald

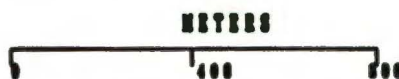
Date: 20 MAY 1991

K9N-12

mt 12/91
262 1010160
Calving Glacier
Creek.
SITE B2



K0912 XX500 XM



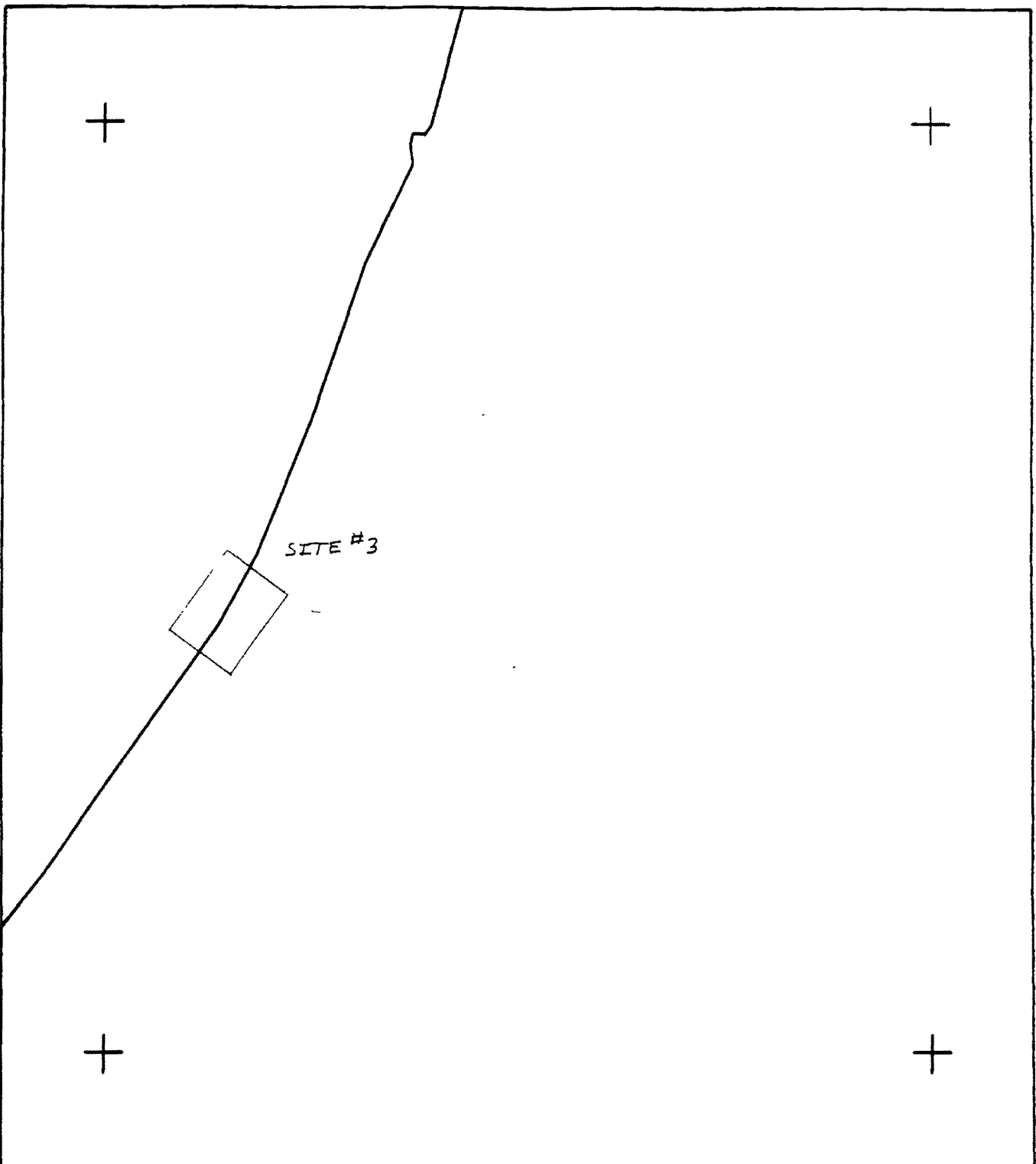
At State Plane Zone 8
9001222500.00

Subdivision Field Map

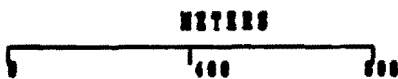
Map Key: 00A00012XX0000

Name: D. F. Leger

Date: 20 MAY 1991



K0912 XX500 KM



AK State Plane Zone 5
100122250000

Subdivision Field Map

Map Key: 60AK00122250000

Name: D. FITZGERALD

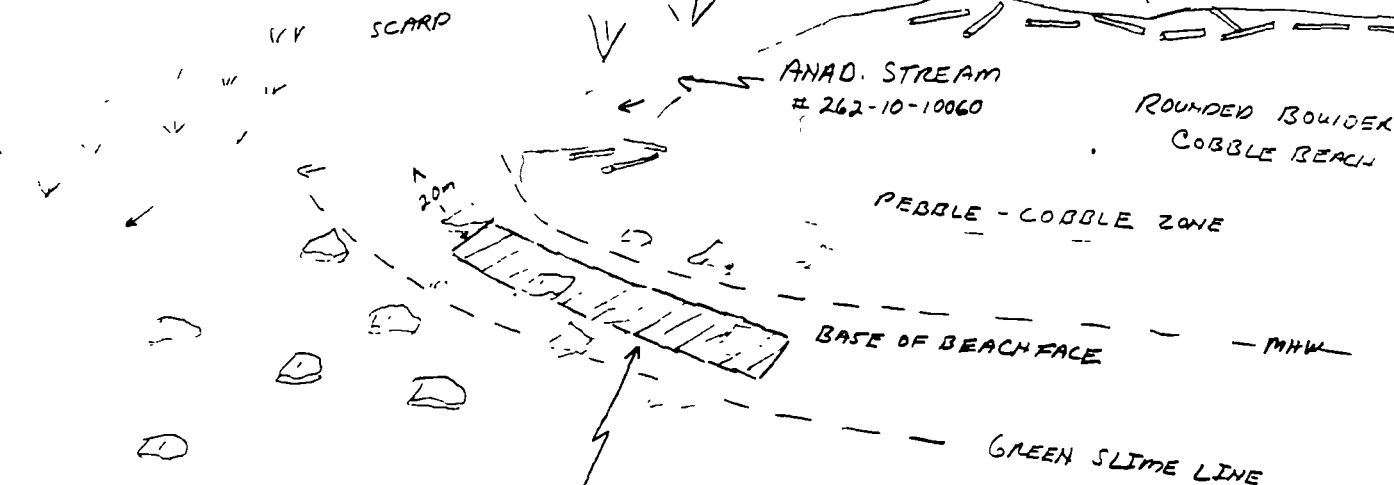
Date: 20 MAY 1991

- ↓↓↓ BUSHES
- vvv GRASSY AREA
- == LOGS
- PHOTO SITES

SKETCH MAP 106
K9-12-XX-500-AM
D M FITZGERALD
20 May 1992
1445-1650

ALASKA
PENINSULA

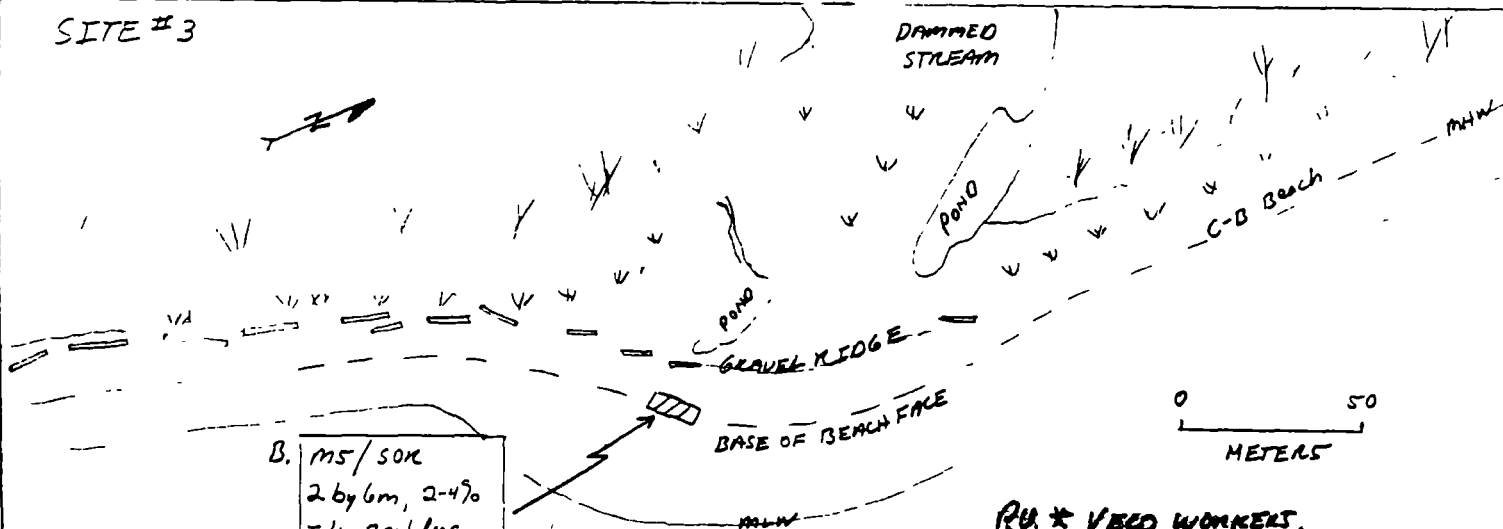
SITE #2



A. MS/SOK
4-5 by 40m, 3-10%
I/u Boulder/Cobbles
EXPOSED MS FLOWS IN
HOT SUN. MS BURIED
IN SOME AREAS BY
5-15cm pebbly SAND

SHELIKOF
STRAIT

SITE #3



B. MS/SOK
2 by 6m, 2-4%
I/u Boulders
MIXED w/ FINE
SEDIMENT

PU * VIDEO WORKERS,
RETRIEVED 1/2 BAG
OF OYSTER SEDIMENTS

REVIEWED: MC 5/15/91 reviewed 5.25 9/92

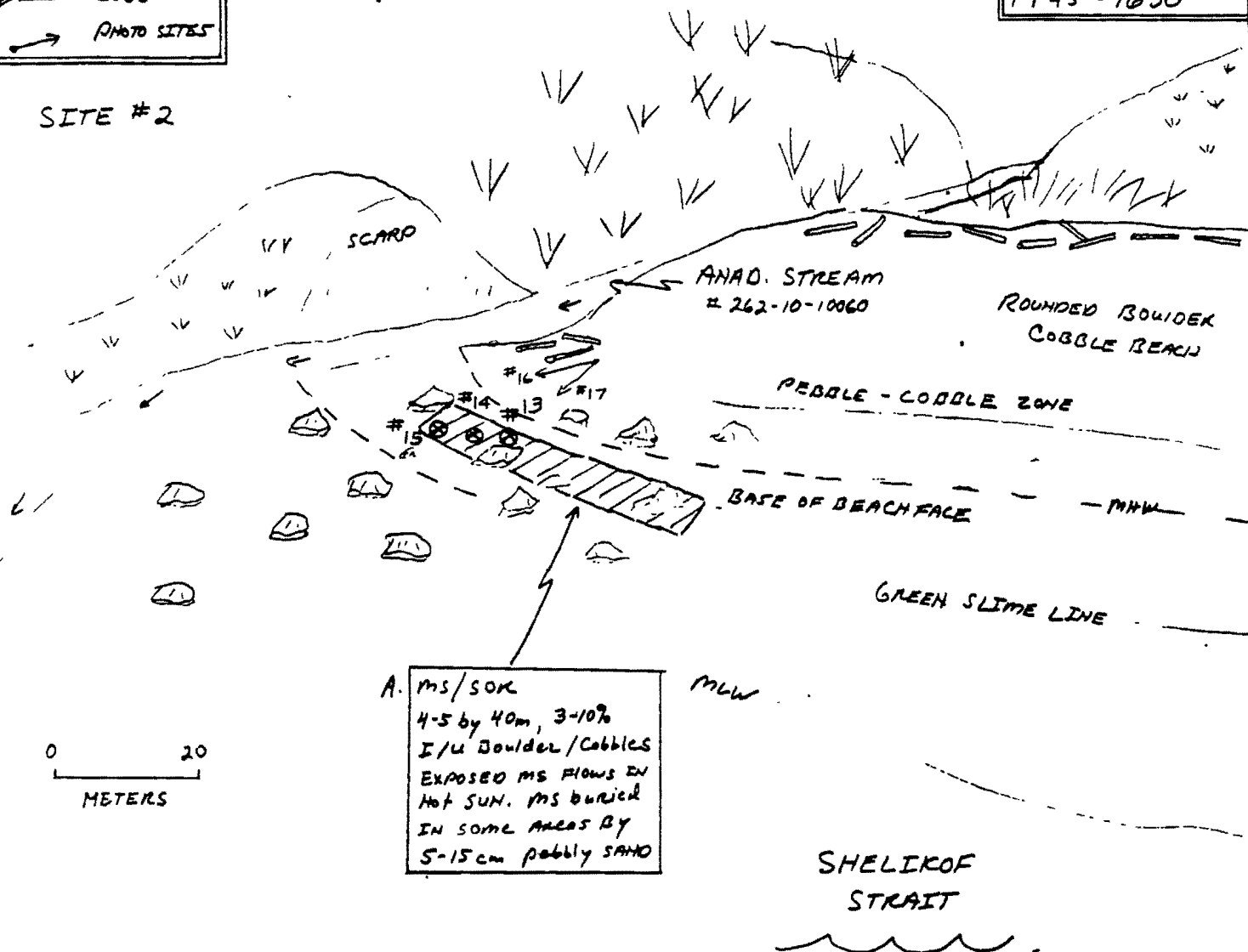
\ \ \ BUSHES
 \ \ \ GRASSY
 AREA
 — LOGS
 — PHOTO SITES

PHOTO SITES, K9-12-XX500A
 ROLL 6-18, FRAMES 13 THRU 19

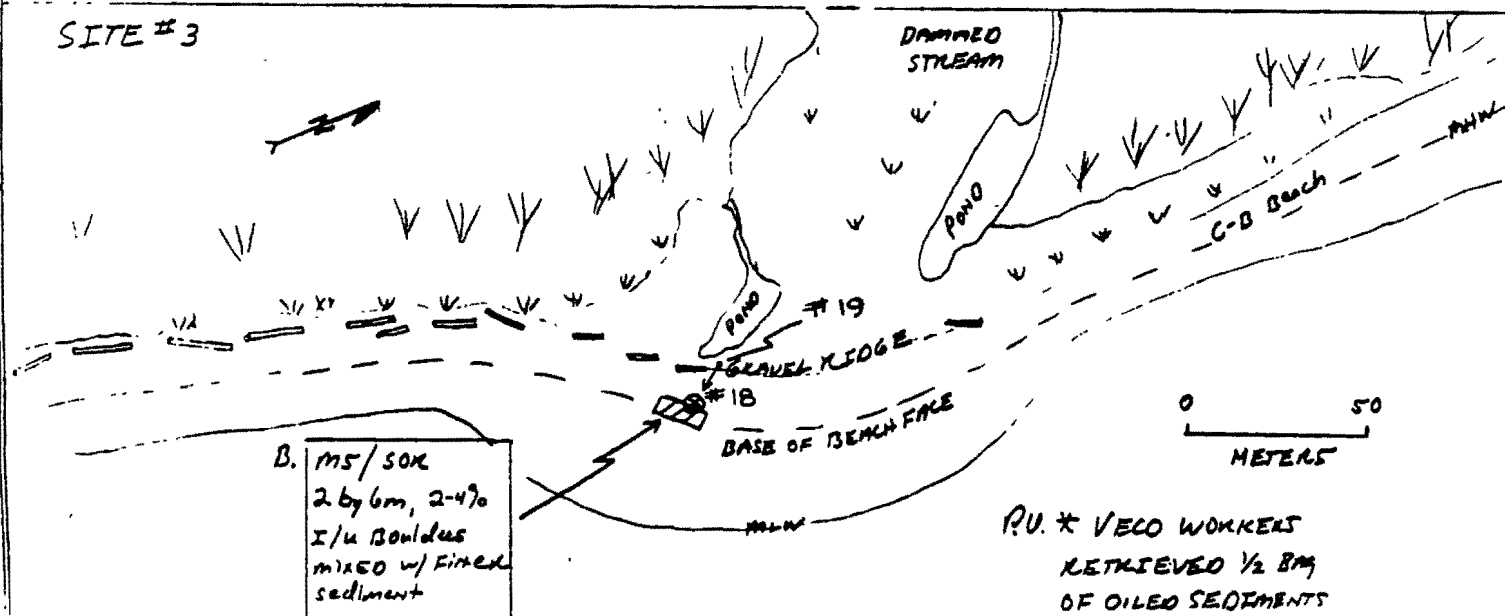
ALASKA
 PENINSULA

SKETCH MAP (OG)
 K9-12-XX-500-AM
 D. M. FITZGERALD
 20 MAY 1991
 1445-1650

SITE #2



SITE #3



MAISAP BIOLOGICAL SUMMARY FORM

TEAM # 6 Helo

DATE May 20 1991

SEGMENT # K9N-12 XX500

TIDAL HEIGHT (Range) 0-3 ft (14:45-16:50)

SUBDIVISION AM

BIOLOGIST H. Davis

SEA STATE < 1 ft calm

WIND SPEED/DIRECTION 5-10 kts light breeze NW

PHOTOGRAPHS: ROLL # G-18

FRAME # 13-19

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

Site 1 is a dammed up lagoon. As the helicopters landed waterfowl were flushed from the lagoon. As it was visible due to the seagut of the water. Growth around the area was following its normal pattern.

Site 2(A) This spot is next to (down) an anomalous stream # 262-10-10060. The MS/SOR begins at the top of the littorine zone. Barnacles (*Balanus* + *Balanus*), littorines, limpets (*S. digitata*, *N. peruviana*) some *Nucella* and amphipods dominate the UITZ. lower down in the MITZ. *Fucus*, *Scytosiphon*, *Oedogonium*, *Ulva*, *Rhodomonella* and coralline algae become prevalent. Under rocks *N. peruviana*, amphipods, ideota, littorina eggs, *Nucella* eggs, and flatworms can be found. Generally a normal and healthy intertidal community for this type of shore.

Site 2(B) There was a much sparser biota in this area than there was at site 2. Barnacles, limpets, littorine, filamentous green algae were on boulders and cobbles but very little else.

Pintail (6) Surf Scoter (2) Scoter (20) Pelagic Cormorant (1) Harlequin (4) Red Necked Grebe (2) Kittiwake (10) Glaucous-winged Gull (5) Sandpiper (2) Wandering Tattler (2) Sparrows (4)

WILDLIFE OBSERVATIONS

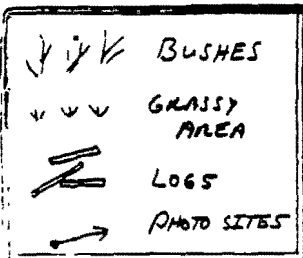
TO BE COMPLETED IN ALL SUBDIVISIONS

BIRDS	# OF SPECIES	TOTAL BIRDS	FISH OBSERVED SPECIES PRESENT
Eagles	1	1 seen, No Nest seen	Sculpin
Seabirds	1	1	
Waterfowl	5	34	
Gulls/Kittiwakes	2	15	
Shorebirds	2	4	
Corvids	0	0	
Other Birds sparrows	1	4	

MARINE MAMMALS	# OBSERVED	LAND MAMMALS SPECIES	# OBSERVED
Sea Otters	0	Fox + River Otter tracks	—
Pinnipeds (specify)			
Steller's Sea Lions	6		
Whales (specify)	0		

Shoreline subdivision map showing important biological features attached.

Run 5:57 PM



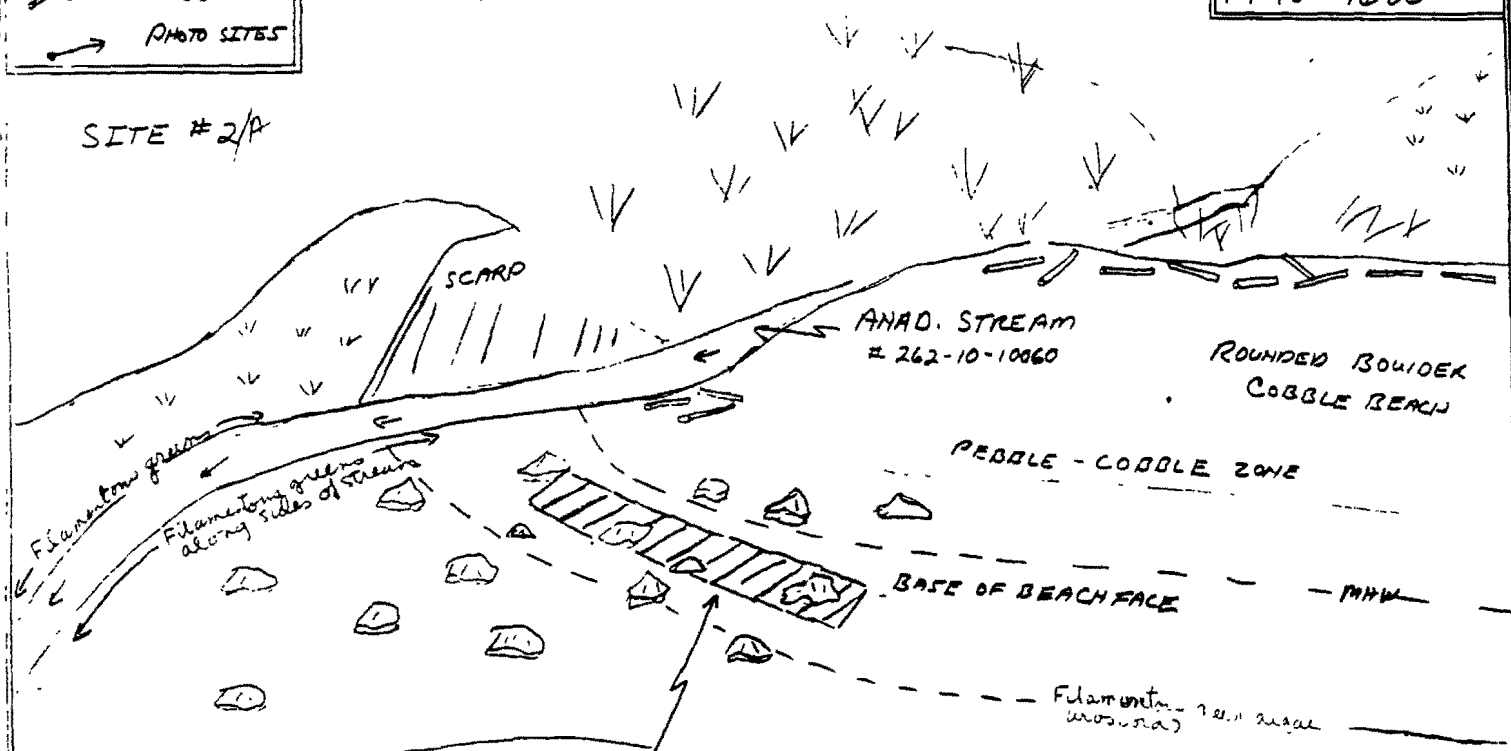
1710 1715

1015

SKETCH MAP (K9-12-XX-500-AM)
 D.M. Fitzgerald
 20 May 1991
 1445-1650

ALASKA PENINSULA

SITE #2/A



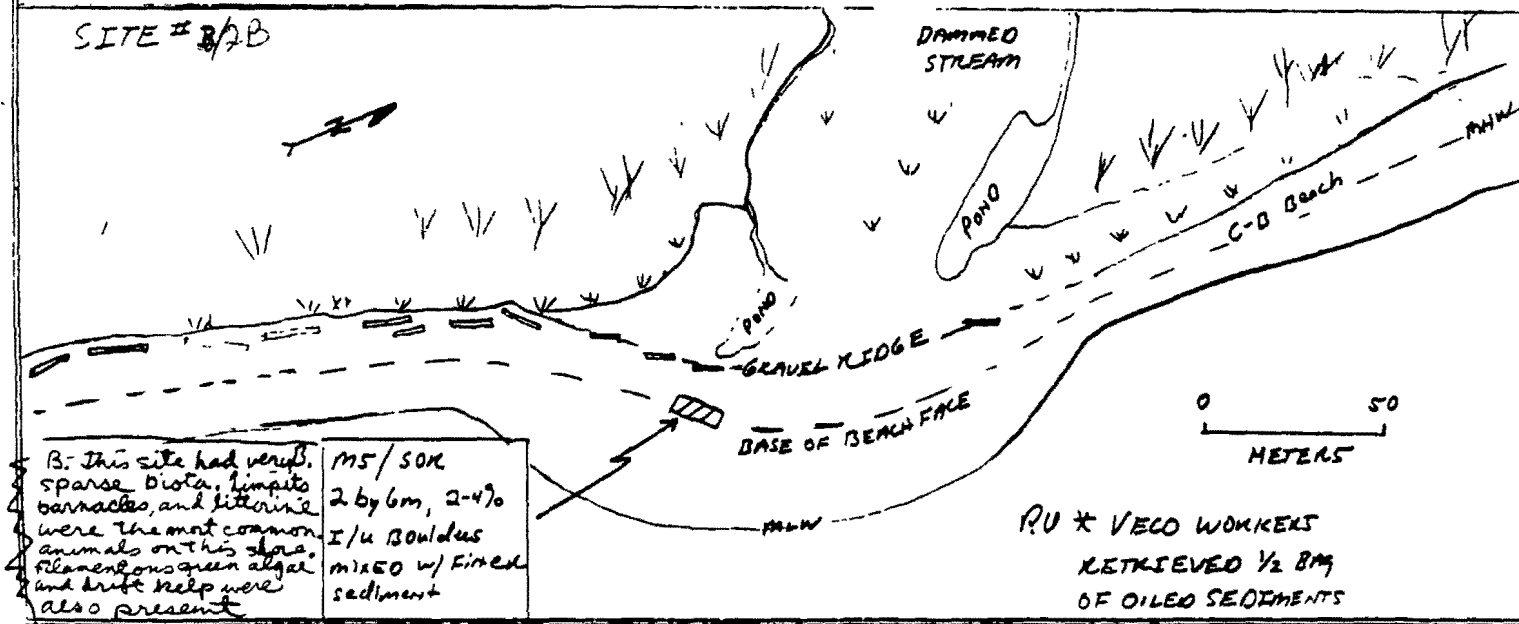
A. littorina, amphipods, and A. barnacles are sparse along this intertidal zone. Lower down in the MITZ is a healthy intertidal with some pipers and Littorina feeding.

MS/SOM
 4-5 by 40m, 3-10%
 I/u Boulder/Cobbles
 EXPOSED MS FLOWS IN HOT SUN. MS BURIED IN SOME AREAS BY 5-15cm pebbly SAND

SHELIKOF STRAIT



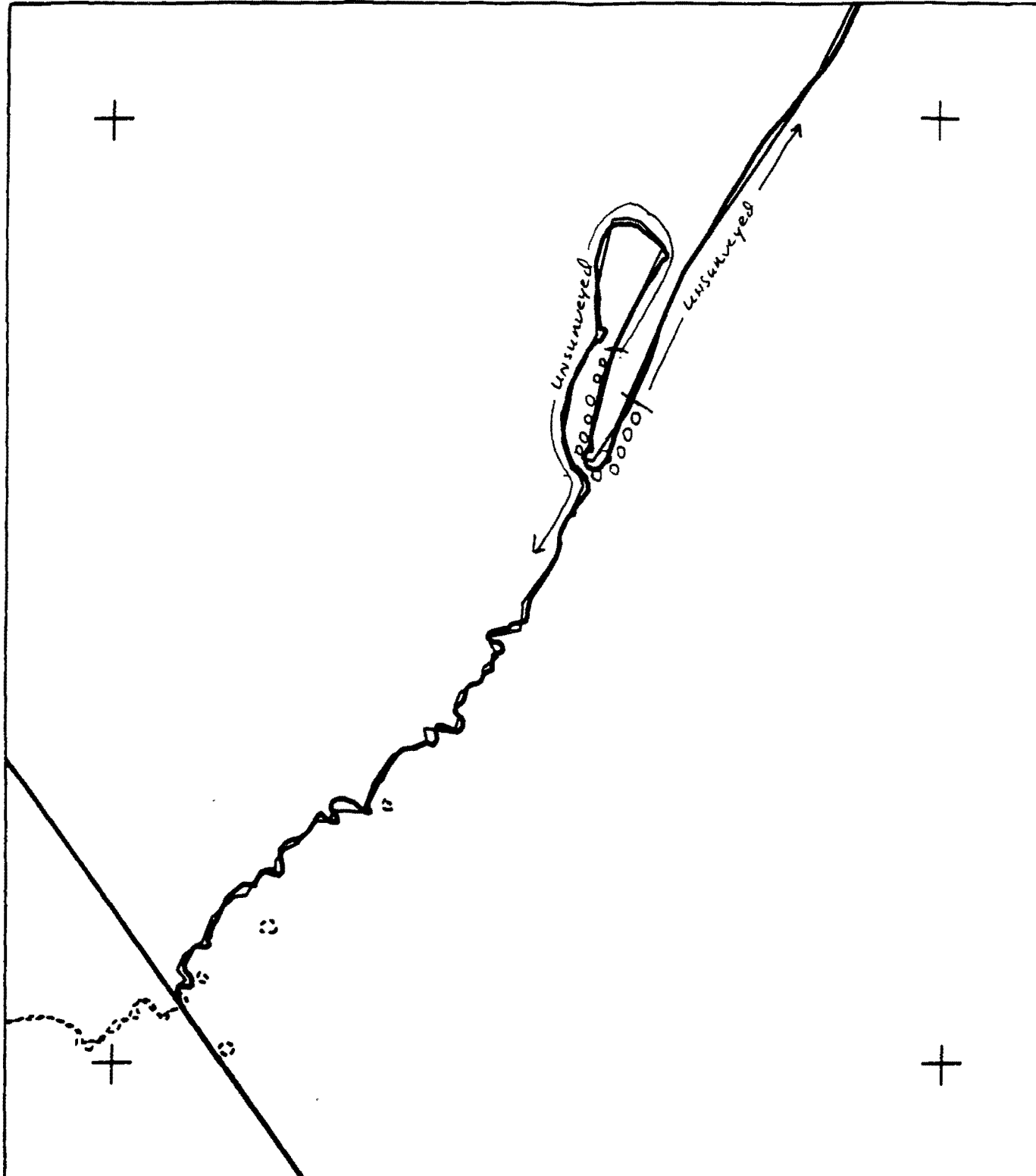
SITE #2/B



B: This site had very sparse biota. Limpets, barnacles, and Littorina were the most common animals on this shore. Filamentous green algae and drift kelp were also present.

MS/SOM
 2 by 6m, 2-4%
 I/u Boulder mixed w/ fine sediment





XXXX	Wide	K0912 XX500 A	Subdivision Field Map
////	Medium	ADEC Subsegment Length: 10963m	Map Key: 00AK0012XX500Aa
----	Narrow	METERS	Name: <u>D. F. Fitzgerald</u>
TTTT	Very Light	5 100 500	Date: <u>20 MAY 1991</u>
0000	No Oil	AK State Plane Zone 4 90912xx500aa- ...	Date Entered:

Reviewed: MC 5/25/91
 reviewed 5.25.91

K9N-12

ANAD.
STREAM

40M
MEDIAN

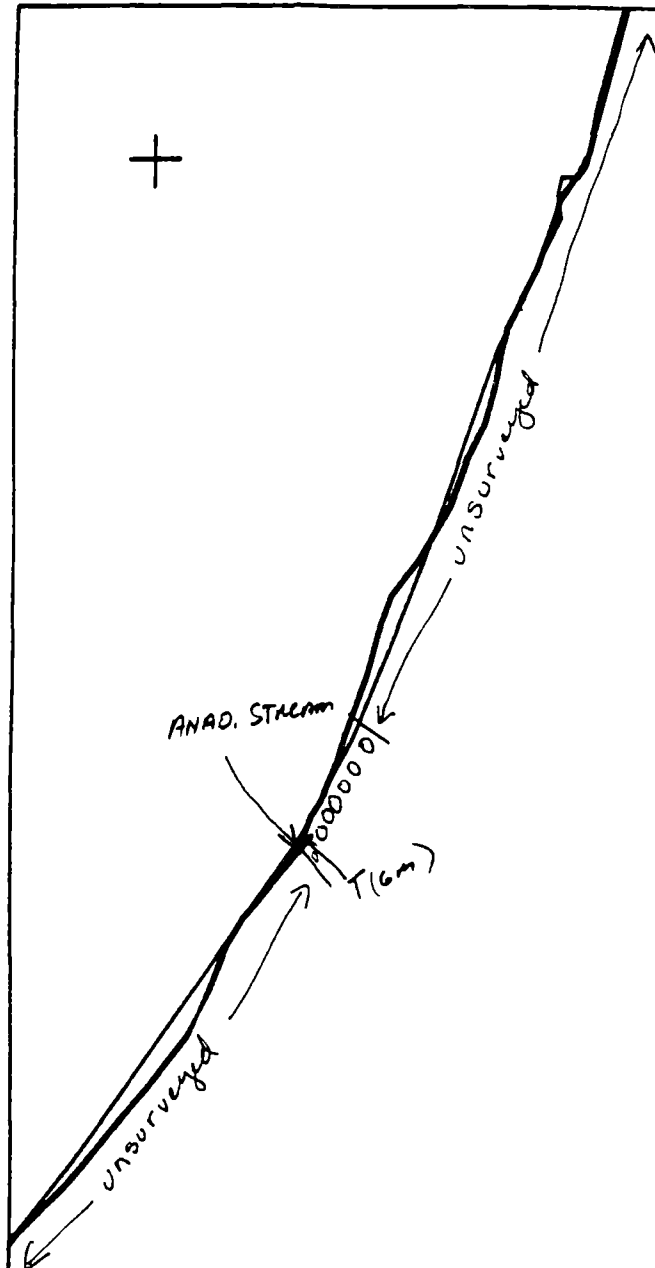
XXXX Wide
//// Medium
--- Narrow
TTTT Very Light
0000 No Oil

K0912 XX500 A
ADEC Subsegment Length: 10963m
METERS
AK State Plane Zone 4
g0012xx500ab- . . .



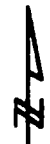
Subdivision Field Map
Map Key: 00AK0012XX500Ab
Name: D. Fitzgerald
Date: 20 MAY 1991
Date Entered:

Revised: MC 5/25/91
reviewed 5.25.91



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

K0912 XX500 A
 ADEC Subsegment Length: 10963m
 METERS
 0 400 800
 AK State Plane Zone 4
 60912xx500xx- . . .



Subdivision Field Map
 Map Key: 60AK0012XX500Ae
 Name: D. Fitzgerald
 Date: 20 MAY 1991
 Date Entered:

Reviewed: MC 5/25/91
 revised 5.25 .y



Triple Lake
Creek



June 17, 1990
W. TROYER

FOUR PEAKED GLACIER AREA



FOUR PEAK GLACIER

- LEGEND:
- OVERALL BAND OF OIL
 - ▨ HEAVY BAND OF OIL
 - xx OIL STAINING COVER
 - ▭ DRIFT LOGS
 - ▲ ALDER RIDGE (LOW)

Calving Glacier Creek

Calving glacier creek.

Approx 1.5 miles N of Triple Lakes creek 262-10-10040

K9-12. xx500

AFS 262-10-10060

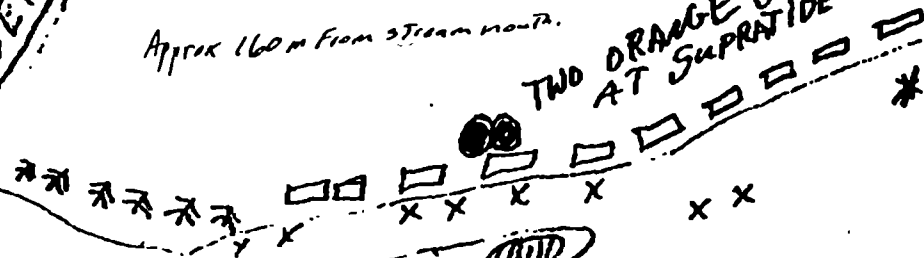
Approx 160 m From Stream mouth.

TWO ORANGE BOWS HANGING ON LOG
AT SUPRATIDE LINE

* LARGE BOULDER AT LOW TIDE LINE
(ABOUT 8' HIGH)

SCALE: 100 M

RIVER



BAND #1
(6x3 M)

BAND #2
(20x4 M)

OIL LIES AT LOWER HIGH TIDE LINE
ALONG EDGE OF GREEN ALGAE COVERED ROCKS
JUST BELOW MAJOR SLOPE AND ON FLAT AREA

ACE 1951091-1/5

ADEC

NAME J. BARNHART ADFGSIGNATURE Jeff Barnhart☐ NTR ☒ Treatment Recommended

① The bar mat in Triple Lakes Creek (262-10-10040) was under a approx. four feet of water. Recommend assessment at later date when water level is lower. ② AT Fourpeak Glacier (Stream 262-10-10060) The oiled area is located 20 meters from the stream bed. The band is 42 m long x 5 m wide, 50% oil coverage between the cobbles/boulders consisting of mousse/pooled oil, 9-15 cm in the thicker areas. Oil is oozing around and between cobbles. Brown oil pooled in small tidal pools. Treatment should consist of manual work with Trowels to remove the thick fluid oil from between the cobbles. Cobbles, where possible, should be rolled over and the mousse removed from under them. ③ This site is located north of Fourpeak Glacier 6m x 2m, 20% oil coverage, mousse 2.5-5cm thick around cobbles/boulder. Treatment recommended using the same techniques as described for site #2.

☒ TREATMENT Suggested - CONCUR WITH ADFG/NPS Seaton Shotton KIDIAK Island Borough

EXXON

NAME R. HARRELSONSIGNATURE R C Harrelson☒ NTR

RECOVERY OF OILED MATERIAL AT SITE #2 WOULD BE A SLOW, TEDIOUS PROCESS DUE TO THE BOULDER, COBBLE COMPOSITION OF THE BEACH. IT IS A HIGH ENERGY AREA AND AS THE BID REPORTS SHOWS, RECOVERY IS PROGRESSING WELL. AT SITE #3 VECO WORKERS REMOVED ALL RAPIDLY ACCESSIBLE OIL.

LANDMANAGER

NAME F. BENNESOF NPSSIGNATURE F. Benness☐ NTR ☒ Treatment suggested.

Site 1 - No oil observed. Oiled areas described from past surveys are under water.

Site 2 - Band of oil 40.5 m wide x 42 m long is present 20 meters to the north of Four Peak Glacier Creek. This band has been previously undocumented. Oil exists in the lower part of the UITE as Mousse pooled under and between the C/B, varying in thickness from 1cm - 15cm, and as "SOR", ST, CT, and CV. Pending review by NPS, removal of recoverable oil in this location is suggested.

Site 3 - Small 4m x 6m band of MS/ITV, ST, CT, Mousse could be recovered if a clean-up was in the future.

USCG/NOAA

NAME CWO SPURIL / G. SHIGENAKASIGNATURE G. Shigenaka☐ NTR

Removal of oil in site 2 is strongly recommended due to its proximity to a local stream (262-10-10060). While clean-up team is at segment it is also recommended that the 4m x 6m band at site 3 be removed.

THREE SITES WITHIN THIS LENGTHY SEGMENT WERE TARGETED FOR EXAMINATION. SITE 1 WAS A STREAM-FED LAGOON THAT FLOWED ACROSS A BOUNDED COBBLE BEACH. PORTIONS OF THE LAGOON SHORELINE WERE FOUND TO BE OILED IN PREVIOUS SURVEYS; UNFORTUNATELY, A LARGE LOGJAM AT THE SOUTH END OF THE LAGOON CAUSED THOSE PORTIONS TO BE SUBMERGED AND UNSURVEYABLE. SITE 2 CONSISTED OF A BOULDER BEACH ADJACENT TO AN ANADROMOUS STREAM, TO THE NORTHEAST OF SITE 1. A WIDE BAND OF OILING WAS ENCOUNTERED HERE, NEAR THE NORTHERN BANK OF THE STREAM - THIS SOR AND MOUSSE UNDER BOULDERS WAS MADE OBVIOUS IN THE RARE SUNSHINE ENJOYED TODAY, AS THE HEAT TENDED TO MOBILIZE THE RESIDUES INTO A MORE FLUID FORM. THE EXTENT OF OILING EXCEEDED THE CAPABILITIES OF THE VECO CREW AND SURVEY TEAM TO REMEDIATE - CONSENSUS OF THE TEAM WAS THAT A DEDICATED CLEANUP TEAM WOULD BE APPROPRIATE. SITE 3, FARTHER TO THE NORTHEAST, WAS A BOULDER BEACH THAT CONTAINED A PREVIOUSLY IDENTIFIED SECTION OF OILING - THIS WAS RELOCATED UNDER A PATCH OF BOULDERS COVERED WITH FILAMENTOUS GREEN ALGAE, AND THIS PATCH WAS SIMILAR IN CHARACTER TO THE OILING OBSERVED AT SITE 2. SOR WITH LIQUID MOUSSE UNDER BOULDERS, NONE OF THIS MATERIAL WAS RECOVERED, AS IT ALREADY EXCEEDED THE LIMITED CAPABILITIES OF THE SURVEY TEAM.

HUEL Comm. S. Con 1

5-20-91

J. Barnhart

ASC 262-10-10060

Site #2
MS, 42

No seg location
map

ASC # 262-10-10040
Triple bottom creek

Tide level.

Site #1
water level approx. 4 feet over oil band
in 1200h. No survey. Reassess at later
date.

Site #2. Located 20m from stream bed.
Oil band 42m long x 5m wide,
Mousse/pooled oil 9-12cm in the thicker
areas. 50% oil coverage between boulders.
Cobbles. Brown, fluid oil pooled in small
Tidal pools. Recommend Treatment.

XX500

XXXX

Wide

////

Medium

Narrow

TTTT

Very Light

0000

No Oil

K9N-12 NULL

ADEC Subsegment Length: 0m

METERS

0 457 814

AK State Plane Zone 4 1:18000
K9N-12null



Subdivision Field Map

Map Key: AKPK9N-12NULL

Name: _____

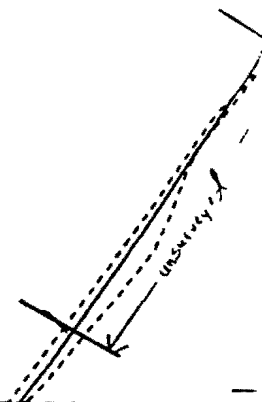
Date: _____

Data Entered: _____



Pa.

K9N-12



+x500

XXXX
////

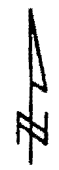
TTTT
0000

Wide
Medium
Narrow
Very Light
No Oil

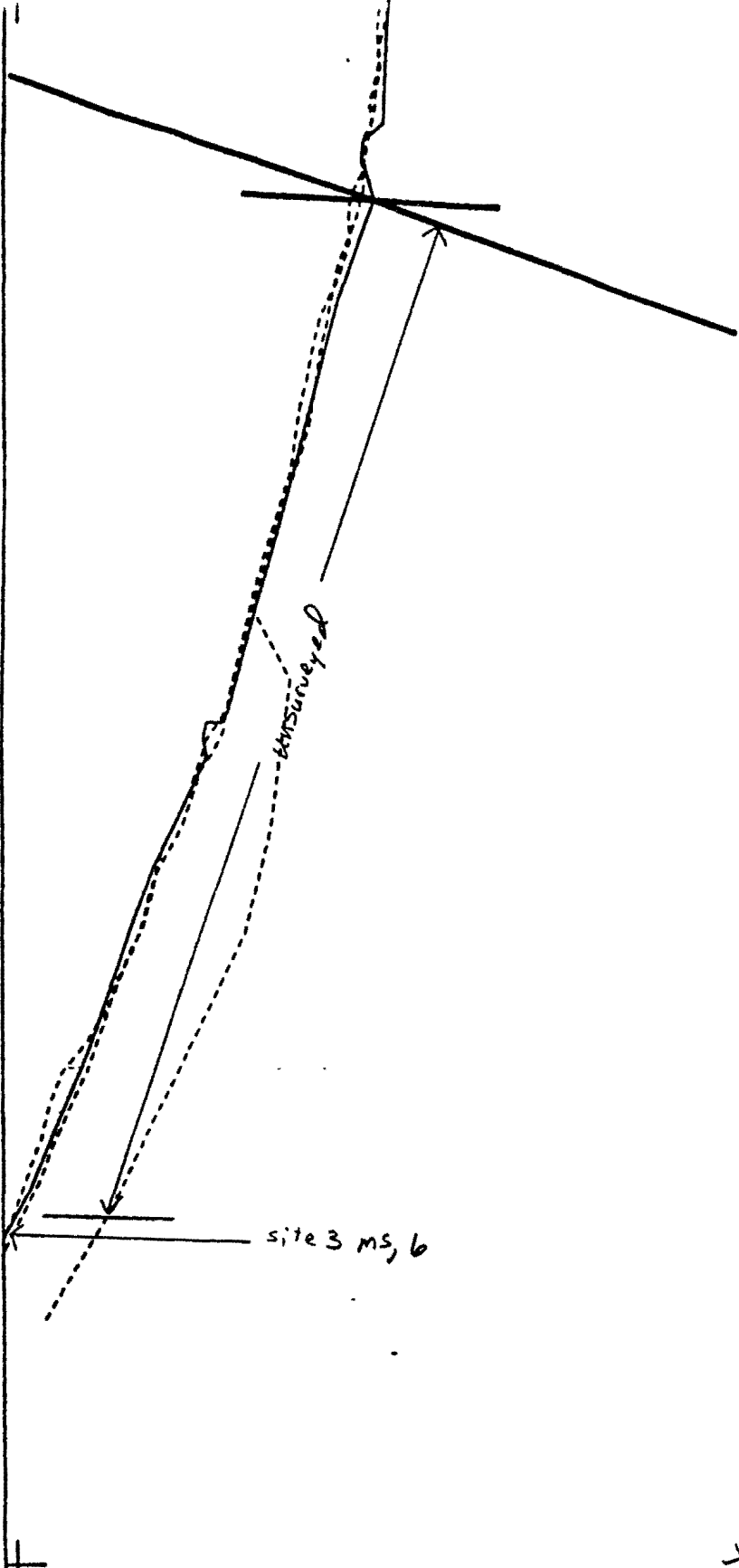
K9N-12 NULL

ADEC Subsegment Length: 0m
METERS

0 1457 914
AK State Plane Zone 4 1:18000
e9n-12nullc'



Subdivision Field Map
Map Key: AKPK9N-12NULLc
Name: _____
Date: _____
Data Entered: _____



Site #3 Located north of
 Fourpeak Glacier 6m long x 2m wide
 20% oil coverage, mousse 2.5-5.
 Thick around cobbles/boulders.
 This site should be treated in
 conjunction with site #8.

+4500

XXXX
 ////

 TTTT
 0000

Wide
 Medium
 Narrow
 Very Light
 No Oil

K9N-12 NULL

ADEC Subsegment Length: 0m
 METERS

0 457 914
 AK State Plane Zone 4 1:18000
 09N-12null



Subdivision Field Map
 Map Key: AKPK9N-12NULL4
 Name: _____
 Date: _____
 Data Entered: _____





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

KODIAK REGION

may sap - Y
2621010040

KODKUNIT: K912
ANADROMOUS STREAM

SEGMENT: XX500

SUBDIVISION:

RECOMMENDED TREATMENT:

AT SITE 1 REASSESS TRIPLE LAKES CREEK

REMOVE AP/TB ~~PRESENT~~ IF PRESENT JB

AT SITE 2

MANUAL PICKUP OF MS/SOR

AT SITE 3

MANUAL PICKUP OF MS/SOR

ENVIRONMENTAL SENSITIVITIES:
ANADROMOUS STREAM

WORK WINDOW: -

CLEANUP PLAN AND COST ESTIMATE DUE:

DATE SUBMITTED: 06/04/91

STATE ON SCENE COORDINATOR:

John Bauer for E. P. J.

ADF&G OIL SPILL RESPONSE MONITORING

ASC# 262-10-10040

Date: 6-22-91

Stream Name: Triple Lakes Creek

Observer: J. Barnhart

Segment-Sub Unit K9-12 xx500

Location: Approx 11 Air miles S. of Cape Douglas, Ak. Pen.

Anad. Stream Permit Issued? Y ☒ N

Date: _____

Work Order Issued: ☒ Y N

Date: TAG Approved 6-4-91

Demob Date: 6-22-91

USCG Approved 6-21-91 via phone

Oil Characteristics (circle appropriate ones)

Surface: AP, ☒ MS, TB, SOR, CV, CT, ST, FL, DB, None
Subsurface: OP, HOR, MOR, LOR, OF, TR, None

Treatment Techniques:

☒ Manual Removal
Manual Raking
Spot Wash
Other

Bioremediation & Type N/A
Mechanical Tilling
Header Flood (Hot/Cold)

Crew Size: 7

Lbs. or Bags of Oil/Sediment Removed 11 bags x 15 lbs/bag = 165 pounds

Other Agency Reps, and Names: Nick Martinez (Exxon) Rick Potts (NPS)

Photos ☒ Y N

Roll #

Frames

P915PB002K

32-35

Video

Tape #

Start

End

N/A

Sediment/Oil Samples (Y ☒ N)

Collection Number

Purpose of Trip * Cleanup

* Form designed primarily for cleanup inspection trips, but should be used for any field trips, i.e., to check on bird rookeries, seal haulouts, special habitat areas, etc.

Describe extent of remaining oil (any comments on expected completion of cleanup).

Stain, coat on cobbles.

Comments: (Are work order procedures being followed?, etc.)

Start work Triple Lakes Creek 2330 Stop 2400.

During the May SAP surveys the water level was 4 feet over the oil band. Today the lagoon, which had formed as a result of the stream being 90% blocked from the ocean, was dry with the stream channel flowing through the middle. The lagoon/stream broke through a cobble barrier ten feet thick at the ocean outlet, draining the lagoon.

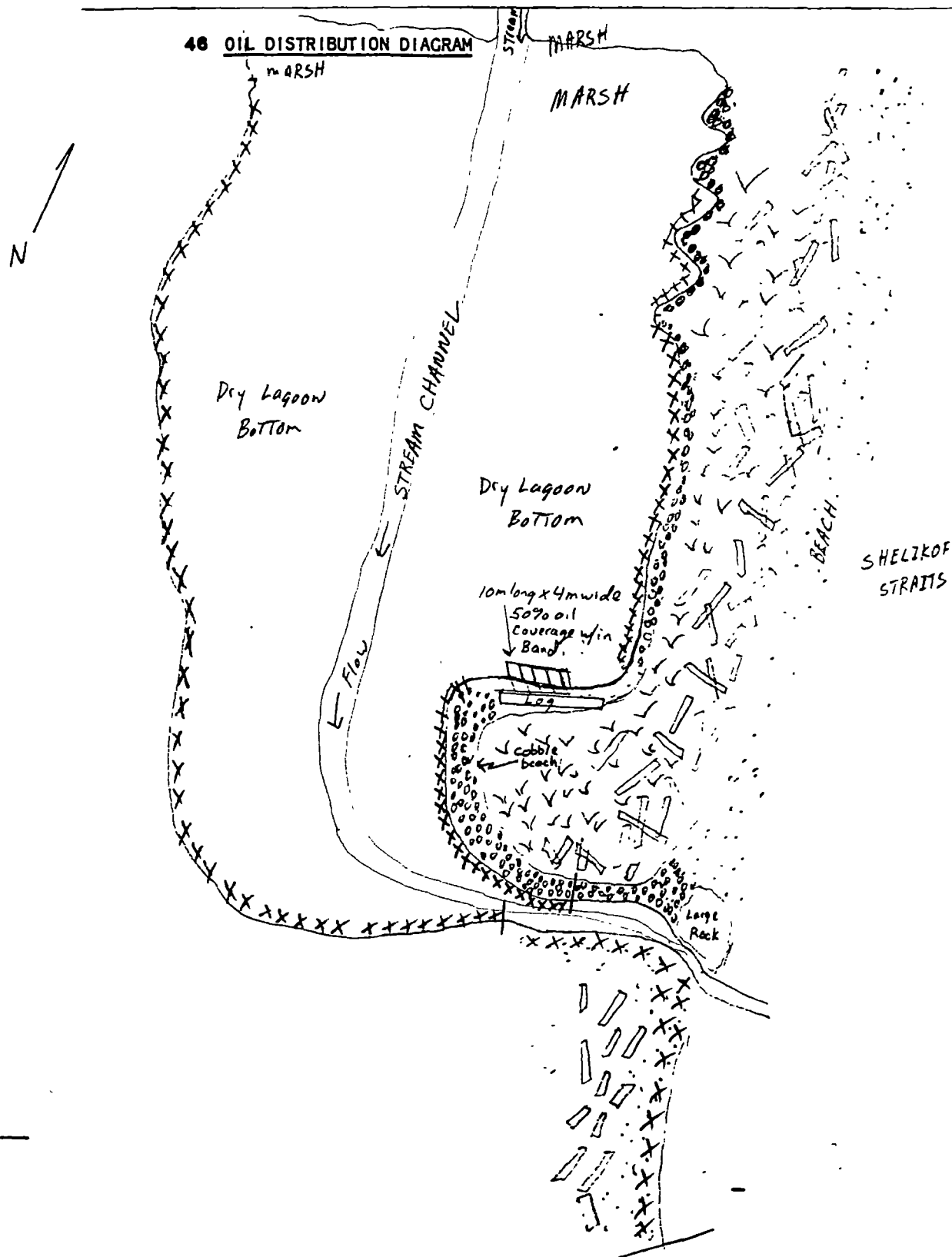
At the time we cleaned the remaining mussel/vegetation mat from ^{once} the lagoon bottom the light conditions were poor. I was able to locate much of the mussel mat which had a dried layer of silt 2 cm thick over top of it. The area we cleaned was 10m long x 4m wide located at the same spot that we removed approx 1600 pounds of oil from during the 1990 cleanup.

Note: The mat thickness was approx 2 cm. Brown fluid mousse in center of vegetative mat. Approx 50% oil coverage within the band

A:OPRESP
April 2, 1991

*6-22-91 Veco crew used shovels to remove the mousse/vegetation mat. As indicated the oiled area was 10 m long x 4 m wide, 50% oil coverage within the band. Surface oil only, 2cm thick mat. Oil remains as stain, CT on cobbles at high water mark.
Jeff Burnhart

Triple Lakes creek.



ADF&G MULTI-ASSESSMENT DATA FORM

- 1) SURVEY TYPE: BS SS 2) REGION: PWS KP, CI K, AP
- 3) METHOD: Aerial Ground Boat
- 4) DATE: 5-20-91 16) HIGH TIDE TIME: 0801/2111 22) TEAM RECORDER: J. Barnhart
- 5) START TIME: 1450 17) HIGH TIDE HTS: 15.7/16.1 23) OBSERVERS: F. Bennis, D. Spurr, R. Heraldson and others.
- 6) STOP TIME: 1500 18) LOW TIDE TIMES: 0157/1429 24) AGENCY: ADF&G, NPS, USCG, Exxon
- 7) SEGMENT #: XX500 19) LOW TIDE HTS: 3.7/0.2 25) PHOTOS TAKEN: Y N
- 8) K-UNIT: K09-12 20) TIDE HT AT SURVEY: _____ ROLL #: _____ FRAMES: _____
- 9) LAT: _____ Ebb Slack Flood Slack 26) VIDEO TAKEN: Y N
- 10) LONG: _____ 21) USCG QUAD: _____ TAPE # _____
- 11) ASC #: 262-10-10040 START: _____ STOP: _____
- 12) STREAM NAME: Triple Lakes Creek 27) SAMPLES TAKEN? Y N
- 13) LOCATION: Approx 11 air miles South of Cape Douglas, AK Pen. SAMPLE I.D. _____
- 14) WAVE EXPOSURE: High Moderate Low _____
- 15) SHORELINE TYPE: Headland Low-lying Rocks Beach _____
- Cove Lagoon Marsh _____

28) EXTENT OF OIL

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

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

35) COMMENTS: Unable To evaluate oil due TO four feet of water over the oil band.
will need reassessment.

1991 STREAM FILE LOG HABITAT

STREAM CATALOG # : 262-10-10040
STREAM NAME : Triple Lakes Creek

LOCATION : Kodiak
SEGMENT : XX500

[illegible]

ADF&G OIL SPILL RESPONSE MONITORING

ASC# 262-10-10060

Date: 6-22-91

Stream Name: Calving Glacier Creek

Observer: Jeff Barnhart

Segment-Sub Unit K9-12-xx500

Location: Approx 9.5 air miles south of Cape Douglas, Alaska Peninsula

Anad. Stream Permit Issued? Y ☒ N

Date: _____

Work Order Issued: ☒ Y ☐ N

Date: Tag Approved 6-4-91

Demob Date: 6-22-91

USCG Approved 6-21-91 via phone

Oil Characteristics (circle appropriate ones)

Surface: AP, ☒ MS, TB, SOR, CV, ☒ CP, ☒ ST, FL, DB, None
Subsurface: ☒ OP, HOR, MOR, LOR, OF, TR, None

Treatment Techniques:

☒ Manual Removal
Manual Raking
Spot Wash
Other

☒ Bioremediation & Type Customizer
Mechanical Tilling
Header Flood (Hot/Cold)

Crew Size: 7

Lbs. or Bags of Oil/Sediment Removed 134 bags x 30 lbs/bag = 4020 pounds

Other Agency Reps. and Names: Rick Potts (NPS) Nick Martinez (Exxon)
John McMahon (USCG)

Photos ☒ Y ☐ N

Roll #

Frames

P91JPB002K

29, 30, 31

Video

Tape #

Start

End

N/A

Sediment/Oil Samples (Y-N)

Collection Number

See p 1 6-21-91

Purpose of Trip * cleanup

* Form designed primarily for cleanup inspection trips, but should be used for any field trips, i.e., to check on bird rookeries, seal haulouts, special habitat areas, etc.

Describe extent of remaining oil (any comments on expected completion of cleanup).

Mousse is oozing out from under large cobbles / small boulders that were not moved during the cleanup. Hundreds of oil stained cobbles also remain

Comments: (Are work order procedures being followed?, etc.)

Veco crew start work 0630 hours stop 1100 hours due to high winds and increasing sea heights. Start again 2115 stop 2200 hours. All bags of oil, equipment ect. removed from site at the conclusion of cleanup activities. Twelve pounds of custaklen was applied to the site. Cabbles too large to bag were scraped of heavy mousse and pumped. Hundreds of these remain on the site.

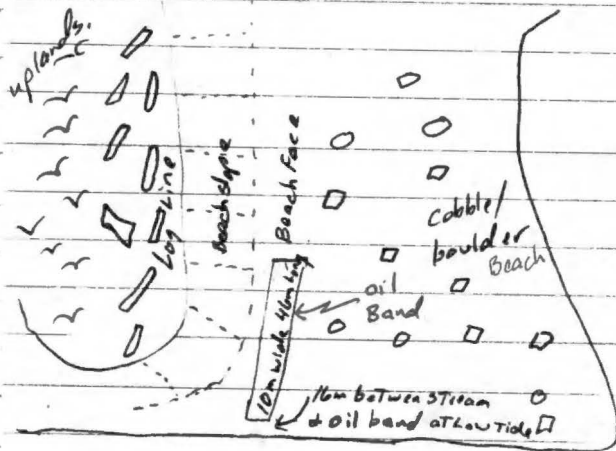
Prior to cleanup the percent oil coverage within the 46m long x 10m wide band was 50%.

A:OPRESP
April 2, 1991

Jeff Barnhart

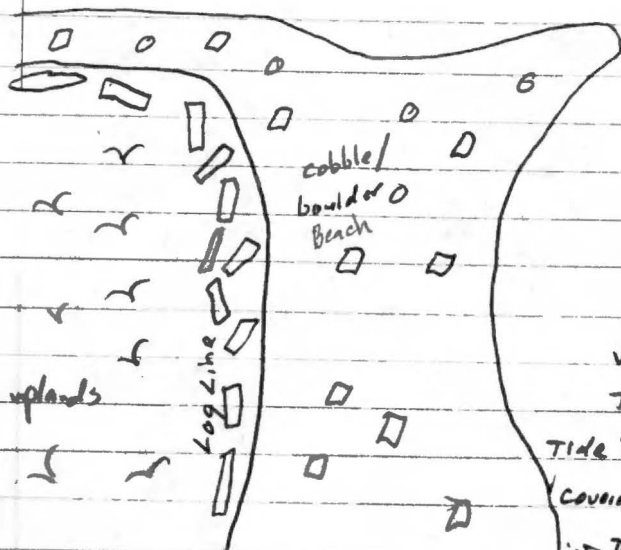
Calving Glacier Creek 6-21-91

N ↑



Shelikof
STAIRS

Calving Glacier Creek
Stream Flow →



view at Low
Tide. AT high
Tide The oil band is
covered and is incorporated
into the stream mouth
area.

ADF&G OIL SPILL RESPONSE MONITORING

ASC# 262-10-10060

Date: 6-21-91

Stream Name: Calving Glacier Creek

Observer: Jeff Barnhart

Segment-Sub Unit K9-12-xx500

Location: Approx 9.5 Air miles South of Cape Douglas, Alaska Peninsula.

Anad. Stream Permit Issued? Y ☒ N

Date: _____

Work Order Issued: ☒ Y N

Date: Tag Approved 6-4-91

Demob Date: Work in progress

USCG Approved 6-21-91 via phone

Oil Characteristics (circle appropriate ones)

Surface: AP, ☒ MS, TB, SOR, CV, ☒ CT, ☒ ST, FL, DB, None
Subsurface: ☒ OP, HOR, MOR, LOR, OF, TR, None

Treatment Techniques:

☒ Manual Removal
Manual Raking
Spot Wash
Other

Bioremediation & Type
Mechanical Tilling
Header Flood (Hot/Cold)

Crew Size: 7

Lbs. or Bags of Oil/Sediment Removed 244 bags x 30 lbs/bag = 7,320 pounds.

Other Agency Reps. and Names: Rick Potts (NPS) Nick Martinez (Exxon)

Photos

☒ Y N

Roll #

Frames

P91JPB002K

28-28

Video

Tape #

Start

End

N/A

Sediment/Oil Samples (Y-N)

Collection Number

091JPB003K

091JPB004K

Purpose of Trip * Cleanup

* Form designed primarily for cleanup inspection trips, but should be used for any field trips, i.e., to check on bird rookeries, seal haulouts, special habitat areas, etc.

Describe extent of remaining oil (any comments on expected completion of cleanup).

Work on site #2 CALVING Glacier creek is about 35% complete.

Comments: (Are work order procedures being followed?, etc.)

Crew started work 0545 hours stop 0800 breakfast. Start 0930
stop 1345 start 1415 stop 1600. Oil band is 46 m long x 10
meters wide. Percentage of oil within the band (on the south end we are
working on) is approx 75-80% more in some areas. Oil is present from
surface to 20 cm. Avg depth is 15 cm. Oil is grey, brown, odoriferous
mousse. Downwind it can be detected at a distance of 40 feet.
It is located around, under and between the cobbles and small
boulders. Note: The oil band begins 16 meters from stream edge on
low water.

A:OPRESP
April 2, 1991

ADF&G OIL SPILL RESPONSE MONITORING

ASC# 262-10-10040

Date: 6-22-91

Stream Name: Triple Lakes Creek

Observer: J. Barnhart

Segment-Sub Unit K9-12 xx500

Location: Approx 11 Air miles S. of Cape Douglas, Ak. Pen.

Anad. Stream Permit Issued? Y ☒ N

Date: _____

Work Order Issued: ☒ Y N

Date: TAG Approved 6-4-91

Demob Date: 6-22-91

USCG Approved 6-21-91 via phone

Oil Characteristics (circle appropriate ones)

Surface: AP, ☒ MS, TB, SOR, CV, CT, ST, FL, DB, None
Subsurface: OP, ☒ HOR, MOR, LOR, OF, TR, None

Treatment Techniques:

☒ Manual Removal
☐ Manual Raking
☐ Spot Wash
☐ Other

Bioremediation & Type N/A
Mechanical Tilling
Header Flood (Hot/Cold)

Crew Size: 7

Lbs. or Bags of Oil/Sediment Removed 11 bags x 15 lbs/bag = 165 pounds

Other Agency Reps. and Names: Nick Martinez (Exxon) Rick Patte (NPS)

Photos ☒ Y N

Roll #

Frames

P915PB002K

32-35

Video

Tape #

Start

End

N/A

Sediment/Oil Samples ☒ Y ☐ N

Collection Number

Purpose of Trip * Cleanup

* Form designed primarily for cleanup inspection trips, but should be used for any field trips, i.e., to check on bird rookeries, seal haulouts, special habitat areas, etc.

Describe extent of remaining oil (any comments on expected completion of cleanup).

Stain, coat on cobbles.

Comments: (Are work order procedures being followed?, etc.)

Start work Triple Lakes Creek 2330 Stop 2400.

During the May SAP surveys the water level was 4 feet over the oil band. Today the lagoon, which had formed as a result of the stream being 90% blocked from the ocean, was dry with the stream channel flowing through the middle. The lagoon/stream broke through a cobbles barrier ten feet thick at the ocean outlet, draining the lagoon.

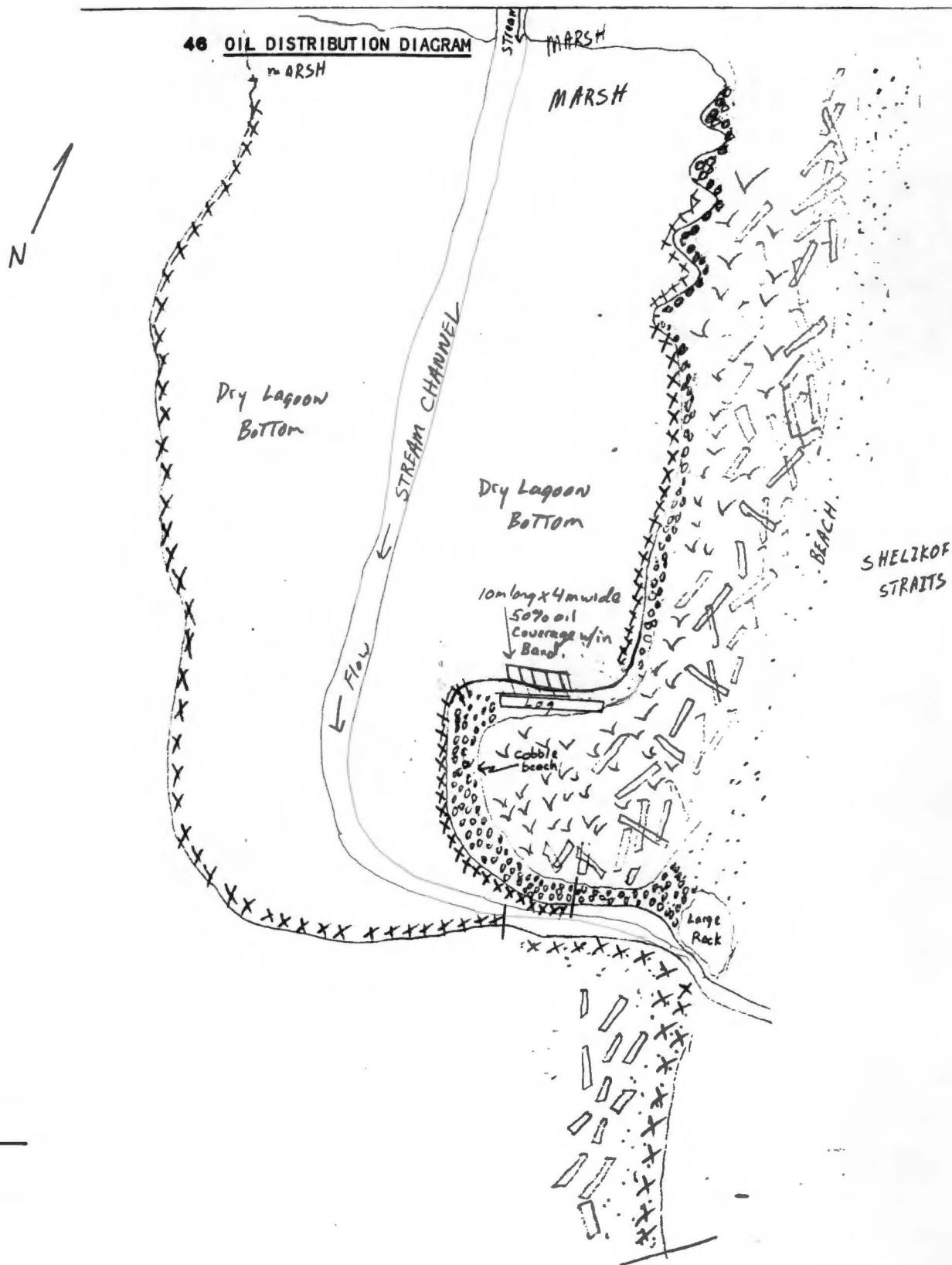
At the time we cleaned the remaining mussel/vegetation mat from ^{once} the lagoon bottom the light conditions were poor. I was able to locate much of the mussel mat which had a dried layer of silt 2 cm thick over top of it. The area we cleaned was 10 m long + 4 m wide located at the same spot that we removed approx 1600 pounds of oil from during the 1990 cleanup.

Note: The mat thickness was approx 2 cm. Brown fluid mussel in center of vegetative mat. Approx 50% oil coverage within the band.

A:OPRESP
April 2, 1991

22-91 Vaco crew used shovels to remove the mousse/vegetation mat. As indicated the oiled area was 10 m long x 4 m wide, 50% oil coverage within the band. Surface oil only, 2cm thick mat. Oil remains as stain, CT on cobbles at high watermark.
Jff Bernhart

Triple Lakes creek.



ADF&G MULTI-ASSESSMENT DATA FORM

- 1) SURVEY TYPE: BS SS 2) REGION: PWS KP, CI K, AP
- 3) METHOD: Aerial Ground Boat
- 4) DATE: 5-20-91 16) HIGH TIDE TIME: 0801/2111 22) TEAM RECORDER: J. Barnhart
- 5) START TIME: 1450 17) HIGH TIDE HTS: 15.7/16.1 23) OBSERVERS: F. Bennis, D. Spurr, R. Healdson and others.
- 6) STOP TIME: 1500 18) LOW TIDE TIMES: 0157/1429 24) AGENCY: ADF&G, NPS, USGIG, Exxon
- 7) SEGMENT #: XX500 19) LOW TIDE HTS: 3.7/0.2 25) PHOTOS TAKEN: Y N
- 8) K-UNIT: K09-12 20) TIDE HT AT SURVEY: _____ ROLL #: _____ FRAMES: _____
- 9) LAT: _____ Ebb Slack Flood Slack 26) VIDEO TAKEN: Y N
- 10) LONG: _____ 21) USCG QUAD: _____ TAPE #: _____
- 11) ASC #: 262-10-10040 START: _____ STOP: _____
- 12) STREAM NAME: Triple Lakes Creek 27) SAMPLES TAKEN? Y N
- 13) LOCATION: Approx 11 air miles South of Cape Douglas, AK Pen. SAMPLE I.D. _____
- 14) WAVE EXPOSURE: High Moderate Low
- 15) SHORELINE TYPE: Headland Low-lying Rocks Beach
Cove Lagoon Marsh

28) EXTENT OF OIL

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

29) OVERALL OIL IMPACT:

H = >6m band with $\geq 50\%$ oil coverageM = >6m band with $\leq 50\%$ oil coverage or $\geq 3\text{m}$ to $\leq 6\text{m}$ with $\geq 10\%$ oil coverageL = <3m band with $> 10\%$ oil coverageVL = $\leq 10\%$ oil coverage regardless of band width

N = No oil observed

33) ANADROMOUS FISH PRESENT: Y N

34) WILDLIFE OBSERVATION

Species Number

30) OIL IN STREAMBED: Y N

31) OIL ON BEACH ADJACENT TO MOUTH: Y N

32) SUBSTRATE TYPE (PERCENT):

Bedrock _____ Boulder _____ Gravel _____ Sand _____ Cobble _____ Mud/Silt _____

35) COMMENTS: Unable To evaluate oil due to four foot of water over the oil band. will need reassessment.

36) PHOTOLOG

FRAME(S)

DESCRIPTION

Δ = Sample Taken
2/ = Photo Frame # and
Shot Direction

ADF&G MULTI-ASSESSMENT DATA FORM

- 1) SURVEY TYPE: BS SS 2) REGION: PWS KP, CI K, AP
- 3) METHOD: Aerial Ground Boat
- 4) DATE: 5-20-91 16) HIGH TIDE TIME: 0801/2111 22) TEAM RECORDER: J. Barnhart
- 5) START TIME: 1525 17) HIGH TIDE HTS: 15.7/16.1 23) OBSERVERS: F. Bennis, D. Spurr, R. Herdman and others
- 6) STOP TIME: 1620 18) LOW TIDE TIMES: 0157/1429 24) AGENCY: ADF&G, NPS, USCG, Exxon
- 7) SEGMENT #: xx500 19) LOW TIDE HTS: 3.7/0.2 25) PHOTOS TAKEN: Y N
- 8) K-UNIT: K9-12 20) TIDE HT AT SURVEY: _____ ROLL #: _____ FRAMES: _____
- 9) LAT: _____ Ebb Slack Flood Slack 26) VIDEO TAKEN: Y N
- 10) LONG: _____ 21) USCG QUAD: _____ TAPE #: _____
- 11) ASC #: 262-10-10060 START: _____ STOP: _____
- 12) STREAM NAME: Calving Glacier creek 27) SAMPLES TAKEN? Y N
- 13) LOCATION: Approx 1.5 miles north of Triple Lakes creek SAMPLE I.D. _____
- 14) WAVE EXPOSURE: High Moderate Low _____
- 15) SHORELINE TYPE: Headland Low-lying Rocks Beach _____
- Cove Lagoon Marsh _____

28) EXTENT OF OIL

	LENGTH m	WIDTH m	M2	%	THICK cm	PEN cm	OIL TYPE
SITE 1	<u>42</u>	<u>5</u>	<u>210</u>	<u>50</u>	<u>10</u>	<u>3+</u>	<u>MS</u>
SITE 2							
SITE 3							
SITE 4							
SITE 5							

- 29) OVERALL OIL IMPACT: 33) ANADROMOUS FISH PRESENT: Y N
- H = >6m band with ≥50% oil coverage
- M = >6m band with ≤ 50% oil coverage or ≥3m to ≤6m with ≥10% oil coverage 34) WILDLIFE OBSERVATION
- L = <3m band with >10% oil coverage
- VL = ≤10% oil coverage regardless of band width
- N = No oil observed
- 30) OIL IN STREAMBED: Y N
- 31) OIL ON BEACH ADJACENT TO MOUTH: Y N
- 32) SUBSTRATE TYPE (PERCENT):
- Bedrock _____ Boulder 40 Gravel 10 Sand _____ Cobble 50 Mud/Silt _____
- 35) COMMENTS: Recommend Treatment. Previously undiscovered oil.

36) PHOTOLOG

FRAME(S)

DESCRIPTION

Δ
2/

=
=

Sample Taken
Photo Frame # and
Shot Direction

A:EDDATFO
April 3, 1991

ADEC

NAME J. BARNHART ADFG

SIGNATURE Jeff Barnhart

☐ NTR ☒ Treatment Recommended

① The tar mat in Triple Lakes creek (262-10-10040) was under approx. four feet of water. Recommend assessment at later date when water level is lower. ② AT Fourpeak Glacier (Stream 262-10-10060) The oiled area is located 20 meters from the stream bed. The band is 42 m long x 5 m wide, 50% oil coverage between the cobbles/boulders consisting of mousse/pooled oil, 9-15 cm in the thicker areas. Oil is oozing around and between cobbles. Brown oil pooled in small tidal pools. Treatment should consist of manual work with trowels to remove the thick fluid oil from between the cobbles. Cobbles, where possible, should be rolled over and the mousse removed from under them. ③ This site is located north of Fourpeak Glacier 6m x 2m, 90% oil coverage, mousse 2.5-5cm thick around cobbles/boulder. Treatment recommended using the same techniques as described for site #2.

☒ TREATMENT Suggested - CONCUR WITH ADFG/NPS Seaw Gutter Kodiak Island Borough

EXXON

NAME R. HARRELSON

SIGNATURE R C Harrelson

☒ NTR RECOVERY OF OILED MATERIAL AT SITE #2 WOULD BE A SLOW, TEDIOUS PROCESS DUE TO THE BOULDER, COBBLE COMPOSITION OF THE BEACH. IT IS A HIGH ENERGY AREA AND AS THE BID REPORTS SHOWS, RECOVERY IS PROGRESSING WELL. AT SITE #3 VELD WORKERS REMOVED ALL EASILY ACCESSIBLE OIL.

LANDMANAGER

NAME F. BENNETT

OF NPS

SIGNATURE F. Bennett

☐ NTR ☒ Treatment suggested.

Site 1 - No oil observed. Oiled areas described from past surveys are under water.
Site 2 - Band of oil 4-5 m wide x 42 m long is present 20 meters to the north of Four Peak Glacier Creek. This band has been previously undocumented. Oil exists in the lower part of the UITE as Mousse pooled under and between the C/B, varying in thickness from 1cm - 15cm, and as "SOR", ST, CT, and CV. Pending review by NPS, removal of recoverable oil in this location is suggested.
Site 3 - Small 4m x 6m band of MS/IVU, ST/ST, Mousse could be retrieved if a clean-up were in the future.

USCG/NOAA

NAME CWO SPURIL / G. SHIGENAKA

SIGNATURE G. Shigenaka

☐ NTR Removal of oil in site 2 is strongly recommended due to its proximity to a local stream (262-10-10060). While clean-up team is at segment it is also recommended that the 4m x 6m band at site 3 be removed.

THREE SITES WITHIN THIS LENGTHY SEGMENT WERE TARGETED FOR EXAMINATION. SITE 1 WAS A STREAM-FED LAGOON THAT FLOWED ACROSS A ROUNDED COBBLE BEACH. PORTIONS OF THE LAGOON SHORELINE WERE FOUND TO BE OILED IN PREVIOUS SURVEYS; UNFORTUNATELY, A LARGE LOGJAM AT THE SOUTH END OF THE LAGOON CAUSED THOSE PORTIONS TO BE SUBMERGED AND UNSURVEYABLE. SITE 2 CONSISTED OF A BOULDER BEACH ADJACENT TO AN ANADROMOUS STREAM, TO THE NORTHEAST OF SITE 1. A WIDE BAND OF OILING WAS ENCOUNTERED HERE, NEAR THE NORTHERN BANK OF THE STREAM - THIS SOR AND MOUSSE UNDER BOULDERS WAS MADE OBVIOUS IN THE RARE SUNSHINE ENJOYED TODAY, AS THE HEAT TENDED TO MOBILIZE THE RESIDUES INTO A MORE FLUID FORM. THE EXTENT OF OILING EXCEEDED THE CAPABILITIES OF THE VECO CREW AND SURVEY TEAM TO REMEDIATE - CONSENSUS OF THE TEAM WAS THAT A DEDICATED CLEANUP TEAM WOULD BE APPROPRIATE. SITE 3, FARTHER TO THE NORTHEAST, WAS A BOULDER BEACH THAT CONTAINED A PREVIOUSLY IDENTIFIED SECTION OF OILING - THIS WAS RELOCATED UNDER A PATCH OF BOULDERS COVERED WITH FILAMENTOUS GREEN ALGA, AND THIS PATCH WAS SIMILAR IN CHARACTER TO THE OILING OBSERVED AT SITE 2: SOR WITH LIQUID MOUSSE UNDER BOULDERS. NONE OF THIS MATERIAL WAS RECOVERED, AS IT ALWAYS EXCEEDED THE LIMITED CAPABILITIES OF THE SURVEY TEAM.

(X)

ADEC Comments Cont

5-20-91

J. Barnhart

ASC 262-10-10060

Site #2
MS, 42

No seg location
map

ASC # 262-10-10040
Triple Lakes Creek

Tide level.

Site #1
water level approx. 4 feet over oil band
in lagoon. No survey. Reassess at later
date.

Site #2. Located 20 m from stream bed.
oil band 42 m long x 5 m wide,
mousse/pooled oil 9-12 cm in the thicker
areas. 50% oil coverage between boulders/
cobble. Brown, fluid oil pooled in small
tidal pools. Recommend Treatment.

XX500

XXXX

Wide

////

Medium

Narrow

TTTT

Very Light

0000

No Oil

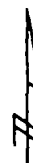
K9N-12 NULL

ADEC Subsegment Length: 0m

METERS

0 457 914

AK State Plane Zone 4 1:18000
9N-12nulla



Subdivision Field Map

Map Key: AKPK9N-12NULLa

Name: _____

Date: _____

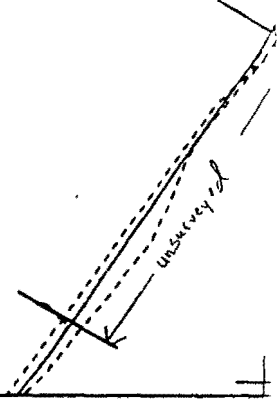
Data Entered: _____



P2.

42
1
+

K9N-12



x500

XXXX
////

TTTT
0000

Wide
Medium
Narrow
Very Light
No Oil

K9N-12 NULL

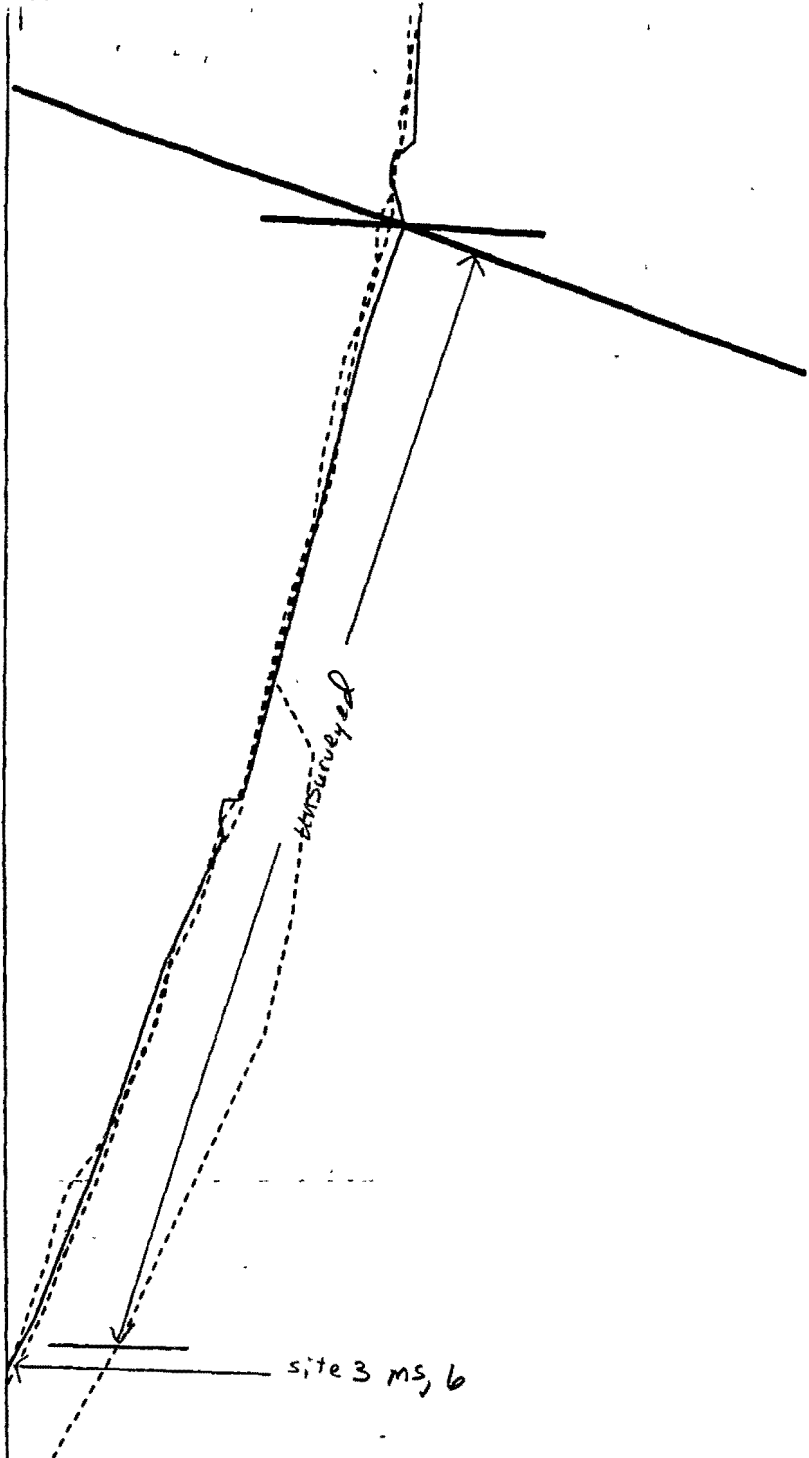
ADEC Subsegment Length: 0m
METERS

0 457 914

AK State Plane Zone 4 1:18000
a9n-12nullc'



Subdivision Field Map
Map Key: AKPK9N-12NULLc
Name: _____
Date: _____
Data Entered: _____



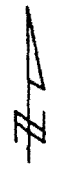
Site #3 Located north of
Fourpeak Glacier 6m long x 2m wide
20% oil coverage, mousse 2.5-5c.
Thick around cobbles/boulders.
This site should be treated in
conjunction with site #2.

x1500

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

K9N-12 NULL
ADEC Subsegment Length: 0m
METERS

0 457 914
AK State Plane Zone 4 1:18000
a9n-12null.d



Subdivision Field Map
Map Key: AKPK9N-12NULLd
Name: _____
Date: _____
Data Entered: _____



Date: 5/20/91 No. 932

Title: XX 500 K9N-12



K9N-12
Segment No XX500 Subdivision A
Date 5/20/91 Log Frame No X12
Photographer GARY SHIGENAKA
Location SOUTH CAPE DOUGLAS, SITE 1
Comments VIEW OF LAGOON FROM SAME LOCATION
AS #10; PIVOTED TO THE NORTH

Roll No MAYSAP-6-18 Neg. No 11
Control No 932 (Office Use Only)



Segment No K9N-12 Subdivision A
Date 5/20/91 Log Frame No ~~13~~ 14
Photographer GARY SHIGENAKA
Location SOUTH CAPE DOUGLAS, SITE 2
Comments FLUID MOUSSE IN BOULDER SUBSTRATE

Roll No MAYSAP- 6-18 Neg. No 13
Control No 932 (Office Use Only)



K9N-12
Segment No XX500 Subdivision A
Date 5/20/91 Log Frame No ~~18~~ 11
Photographer GARY SHIGENAKA
Location SOUTH CAPE DOUGLAS, SITE 1
Comments VIEW (TO THE SOUTHWEST) OF
LAGOON. LOGJAM CAUSED OILED PORTION TO BE
SUBMERGED.

Roll No MAYSAP-6-18 Neg. No 10
Control No 932 (Office Use Only)



K9 N-12
Segment No XX500 Subdivision A
Date 5/20/91 Log Frame No ~~12~~ 13
Photographer GARY SHIGENAKA
Location SOUTH CAPE DOUGLAS, SITE 2
Comments MELTING MOUSSE/SOR FOUND ON NORTHERN
BANK OF STREAM.

Roll No MAYSAP-6-18 Neg. No 12
Control No 932 (Office Use Only)

Date: 5/20/91 No. 932

Title: XX 500 K9N-12





K9N-12
Segment No XX500 Subdivision A
Date 5/20/91 Log Frame No ~~18~~ 16
Photographer GARY SHIGENAKA
Location SOUTH CAPE DOUGLAS, SITE 2
Comments AREA VIEW OF REGION WHERE MOUSSE
WAS LOCATED. PHOTO WAS TAKEN FROM THE
ULTZ/SUPRATIDAL AND ORIENTATION APPROXIMATELY
SOUTH
Roll No MAYSAP-6-18 Neg. No 15
Control No 932 (Office Use Only)



K9N-12
Segment No XX500 Subdivision A
Date 5/20/91 Log Frame No ~~17~~ 18
Photographer GARY SHIGENAKA
Location SOUTH CAPE DOUGLAS, SITE 3
Comments SITE 3 - MOUSSE UNDER BOULDER
COBBLE SUBSTRATE

Roll No MAYSAP-6-18 Neg. No 17
Control No 932 (Office Use Only)



Segment No K9N-12 Subdivision A
Date 5/20/91 Log Frame No ~~14~~ 15
Photographer GARY SHIGENAKA
Location SOUTH CAPE DOUGLAS, SITE 2
Comments SHALLOW PIT SHOWING PENETRATION
OF MOUSSE.

Roll No MAYSAP-6-18 Neg. No 14
Control No 932 (Office Use Only)



K9N-12
Segment No XX500 Subdivision A
Date 5/20/91 Log Frame No ~~16~~ 17
Photographer GARY SHIGENAKA
Location SOUTH CAPE DOUGLAS, SITE 2
Comments ANOTHER VIEW ACROSS BEACH OF
MOUSSE AREA, TAKEN FROM SAME LOCATION AS
#15 AND PIVOTED COUNTERCLOCKWISE TO AN
APPROXIMATELY SOUTHEAST ORIENTATION
Roll No MAYSAP-6-18 Neg. No 116
Control No 932 (Office Use Only)



Segment No K9N-12 Subdivision A
Date 5/20/91 Log Frame No ~~18~~ 19
Photographer GARY SHIGENAKA
Location SOUTH CAPE DOUGLAS, SITE 3
Comments VIEW ACROSS BOULDER BEACH WHERE
MOUSSE WAS LOCATED, SITE 3. KODIAK ISLAND
SHOULD BE VISIBLE IN BACKGROUND; BLUE PACK
MARKS LOCATION OF PHOTO # 17.
Roll No MAYSAP-6-18 Neg. No 18
Control No 932 (Office Use Only)

Date: 5/20/91 No. 932

Title: XX 500 K9N-12