

262-10-10080-clear
crk
262-10-10090-no name

262-10-10080=clear Crk

262-10-10090=no name

share common 10500h
just S. of Cape Douglas

~~K-9-12~~

K09-11-CD-020 A

ACE 1951197

ADF&G MULTI-ASSESSMENT FORM
1991 GENERAL ENTRY CHECKLIST

STREAM#: 2621010090
SEGMENT: CD020

PAGE 57

DATE PRINTED: 07/25/91

LOCATION: CAPE DOUGLAS

SURVEY TYPE: 90 PREANAD

METHOD: GROUND

DATE: 04/26/90

TEAM RECORDER: WEISS

START TIME: 0828

OBSERVERS: BARNHART

END TIME: 0920

TIDES: -0-

AGENCY: FG

OG/HAB DISCREPANCIES: -

PHOTOS TAKEN: Y

STATION: 2621010090

ROLL#: 90EWW002K

FRAME: 11-15

VIDEO TAKEN: N

TAPE#: -0-

START: -0-

END: -0-

SAMPLES TAKEN: N

SAMPLE NUMBERS: -0-

-0-

-0-

-0-

-0-

-0-

OIL IN STREAM BED: N

OVERALL OIL IMPACT: VL

OIL ON BEACH BY MOUTH: L

WAVE EXPOSURE: LOW

SHORELINE TYPE: LAGOON

SUBSTRATE TYPE: BEDROCK -0- BOULDER -0- COBBLE 40 VEGETAT -0-

GRAVEL 30 SAND 30 MUD/SILT -0- GRANULE -0-

ANADROMOUS FISH PRESENT: -

SPECIES: -0-

COUNT: -0-

-0-

-0-

-0-

-0-

-0-

-0-

-0-

-0-

ADF&G MULTI-ASSESSMENT FORM
1991 OILING ENTRY CHECKLIST

PAGE 59

DATE PRINTED: 07/26/91

STREAM# : 2621010090
SEGMENT#: CD020

SURVEY TYPE : 90 PREANAD
DATE: 04/26/90
TIMES: 0828 - 0920

LOCATION: CAPE DOUGLAS
TEAM RECORDER: WEISS

-- OILING EXTENT --

SITE#	SITE TYPE	DEPTH (cm)	LENGTH (m)	WIDTH (m)	AREA (m)	%	THICK (cm)	PEN (cm)	OIL TYPE CODES
1	-0-	-0-	75	-0-	-0-	1	.1MM.01	0	ST S L C
2	-0-	-0-	200	-0-	-0-	1	.1MM.01	0	ST S TB
3	-0-	-0-	100	-0-	-0-	-0-	-0-.05	0	ST S L CT S

COMMENTS:

SPORADIC STAIN AND OIL SPLASHED DRIFT IN STORM TIDE DRIFT LINE. SPORADIC OIL STAIN ON COBBLES ON BACK BANK OF STREAM AND ON BACK SIDE OF BEACH FRONT SPIT. ABSORBENT OIL BOOM LOCATED ON STREAM BANK AT HIGH TIDE LINE. RECOMMEND NO ANADSSAT. NOTE: THIS STREAM JOINS IN A COMMON LAGOON WITH CLEAR CREEK (2621010080).

SITE 2 : ONE TARBALL .

'90 Prepared

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

SEGMENT NUMBER: LOCAL STREAM #:

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

ASC NUMBER: 262-10-10090
SURVEY TYPE: PA
METHOD: F
DATE: 4-26-90
START TIME: 0828
STOP TIME: 0920

TEAM RECORDER: E. Weiss
OBSERVERS: J. Barnhart

AGENCY (IES): ADF&G

PHOTOS TAKEN? Y
Roll #: 90 FWW 002K Frames: 11-15
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	75m	NOT AVAILABLE → N/A	N/A	1	0.1mm	Ø	ST/S/L+C
SITE 2	200m	N/A	N/A	1	0.1mm	Ø	ST/S (one Tar ball)
SITE 3	100m	N/A	N/A	N/A	0.1mm to 1mm	Ø	ST/S/L CT ST/S
SITE 4							
SITE 5							

OVERALL OIL IMPACT: VL

OIL IN STREAM CHANNEL? N

OIL ON BEACH WITHIN 50M OF STREAM MOUTH? Y

SUBSTRATE

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

SPECIES					
COUNT					

COMMENTS: Sporadic stain and oil splashed drift in storm tide drift line. Sporadic oil stain on cobbles on back bank of stream and on back side of beach front spit. Absorbent oil boom located on stream bank at high tide line. Recommend no Anadset.

Note: This stream joins in a common lagoon with clear creek (262-10-10080)

ADF&G MULTI-ASSESSMENT FORM
1991 GENERAL ENTRY CHECKLIST

STREAM#: 2621010080
SEGMENT: CD020

PAGE 54

DATE PRINTED: 07/25/91

LOCATION: CAPE DOUGLAS, SOUTH OF

SURVEY TYPE: 90 PREANAD

METHOD: GROUND

DATE: 04/26/90

TEAM RECORDER: WEISS

START TIME: 0828

OBSERVERS: BARNHART

END TIME: 0920

TIDES: -0-

AGENCY: FG

OG/HAB DISCREPANCIES: -

PHOTOS TAKEN: Y

STATION: 2621010080

ROLL#: 90EWW002K

FRAME: 11-15

VIDEO TAKEN: N

TAPE#: -0-

START: -0-

END: -0-

SAMPLES TAKEN: N

SAMPLE NUMBERS: -0-

-0-

-0-

-0-

-0-

-0-

OIL IN STREAM BED: N

OVERALL OIL IMPACT: VL

OIL ON BEACH BY MOUTH: Y

WAVE EXPOSURE: LOW

SHORELINE TYPE: LAGOON

SUBSTRATE TYPE: BEDROCK -0- BOULDER -0- COBBLE 40 VEGETAT -0-

GRAVEL 30 SAND 30 MUD/SILT -0- GRANULE -0-

ANADROMOUS FISH PRESENT: -

SPECIES: -0-

COUNT: -0-

-0-

-0-

-0-

-0-

-0-

-0-

-0-

-0-

ADF&G MULTI-ASSESSMENT FORM
1991 OILING ENTRY CHECKLIST

PAGE 55

DATE PRINTED: 07/26/91

STREAM# : 2621010080
SEGMENT#: CD020

SURVEY TYPE : 90 PREANAD
DATE: 04/26/90
TIMES: 0828 - 0920

LOCATION: CAPE DOUGLAS, SOUTH OF
TEAM RECORDER: WEISS

-- OILING EXTENT --

SITE#	SITE TYPE	DEPTH (cm)	LENGTH (m)	WIDTH (m)	AREA (m)	%	THICK (cm)	PEN (cm)	OIL TYPE CODES
1	-0-	-0-	75	-0-	-0-	1	.1MM.01	0	ST S L C
2	-0-	-0-	200	-0-	-0-	1	.1MM.01	0	ST C TB
3	-0-	-0-	100	-0-	-0-	-0-	0.05	0	ST S L CT S

COMMENTS:

SPORADIC STAIN AND OIL SPLASHED DRIFT IN SOTRM TIDE DRIFT LINE. SPORADIC OIL STAIN ON COBBLES ON BACK BANK OF STREAM AND ON BACK SIDE OF BEACH FRONT SPIT. ABSORBENT OIL BOOM LOCATED ON STREAM BANK AT HIGH TIDE LINE. RECOMMEND NO ANADSSAT. NOTE: THIS STREAM JOINS IN A COMMON LAGOON WITH THE UN-NAMED STREAM (2621010090).

(was .01 - .1) Ks 8/16/91

196 Preanad

ASC NUMBER:

SEGMENT NUMBER:

YR CATALOGED:

LOCATION:

STREAM NAME: clear creek

KODIAK K-UNIT:

LOCAL STREAM #:

USGS QUADRANGLE:

LATITUDE:

LONGITUDE:

SHORELINE TYPE: Lagoon

LEGAL:

WAVE EXPOSURE: Low

ASC NUMBER: 262-10-10080

SURVEY TYPE: PA

METHOD: F

DATE: 4-26-90

START TIME: 0828

STOP TIME: 0920

TEAM RECORDER: E. Weiss

OBSERVERS: J. Barnhart

AGENCY(IES): ADF&G

PHOTOS TAKEN? Y

Roll #: 90FW002K

Frames: 1-15

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	75	N/A	N/A	1	0.1mm	Ø	ST/B/L+C
SITE 2	200	N/A	N/A	1	0.1mm	Ø	ST/C (one Tar ball)
SITE 3	120	N/A	N/A	N/A	0.1mm To 1mm	Ø	ST/B/L CT ST/S
SITE 4							
SITE 5							

OVERALL OIL IMPACT: VL

OIL IN STREAM CHANNEL? N

OIL ON BEACH WITHIN 50M OF STREAM MOUTH? Y

SUBSTRATE

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

SPECIES

COUNT

COMMENTS: Sporadic stain and oil splashed drift in storm tide drift line. Sporadic oil stain on cobbles on back bank of stream and on back side of beach front spit. Absorbent oil boom located on stream bank at high tide line. Recommend no Anadssat

Note: This stream joins in a common lagoon with the unnamed stream (262-10-10090)

ADF&G MULTI-ASSESSMENT FORM
1991 GENERAL ENTRY CHECKLIST

STREAM#: 2621010080
SEGMENT: CD020

PAGE 55

DATE PRINTED: 07/25/91

LOCATION: CAPE DOUGLAS, SOUTH OF

SURVEY TYPE: 90 ANADSSAT

METHOD: GROUND

DATE: 05/02/90

TEAM RECORDER: WEISS

START TIME: 1434

OBSERVERS: SCHOCK LARSON YOE
CRITCHLOW

END TIME: 1525

TIDES: -0-

AGENCY: FG NPS EXX WWC

OG/HAB DISCREPANCIES: -

PHOTOS TAKEN: N

STATION: 2621010080

ROLL#: -0-

FRAME: -0-

VIDEO TAKEN: N

TAPE#: -0-

START: -0-

END: -0-

SAMPLES TAKEN: N

SAMPLE NUMBERS: -0-

-0-

-0-

-0-

-0-

-0-

OIL IN STREAM BED: N

OVERALL OIL IMPACT: VL

OIL ON BEACH BY MOUTH: Y

WAVE EXPOSURE: LOW

SHORELINE TYPE: LAGOON

SUBSTRATE TYPE: BEDROCK -0- BOULDER -0- COBBLE 60 VEGETAT -0-

GRAVEL 40 SAND -0- MUD/SILT -0- GRANULE -0-

ANADROMOUS FISH PRESENT: -

SPECIES: -0-

COUNT: -0-

-0-

-0-

-0-

-0-

-0-

-0-

-0-

-0-

ADF&G MULTI-ASSESSMENT FORM
1991 OILING ENTRY CHECKLIST

V

PAGE 56

DATE PRINTED: 07/26/91

STREAM# : 2621010080
SEGMENT#: CD020

SURVEY TYPE : 90 ANADSSAT
DATE: 05/02/90
TIMES: 1434 - 1525

LOCATION: CAPE DOUGLAS, SOUTH OF
TEAM RECORDER: WEISS

-- OILING EXTENT --

SITE#	SITE TYPE	DEPTH (cm)	LENGTH (m)	WIDTH (m)	AREA (m)	%	THICK (cm)	PEN (cm)	OIL TYPE CODES
1	-0-	-0-	12	1	12	-0-	.1MM.01	0	ST
2	-0-	-0-	-0-	-0-	-0-	-0-	.1MM.01	0	ST

COMMENTS:

ST/S ON COBBLE BANK SOUTH SIDE OF STREAM, MID TIDE AREA BELOW STORM BERM WHERE STREAM COMES FROM LAGOON. ALSO 3' SECTION OF OILED ABSORBENT BOOM. ST/S ALSO 12M X 1M IN HEAD OF LAGOON. SOME ST/L IN STORM DRIFT LINE. RECOMMEND SOME TYPE A REMOVAL OF DEBRIS (OILED BOOM, FEW PT). NOTE: THIS STREAM JOINS IN A COMMON LAGOON WITH THE UN-NAMED STREAM (2621010090).



'90 AS (Anadssat)

ASC NUMBER:

SEGMENT NUMBER:

YR CATALOGED:

CATION:

REAM NAME: Clear creek

KODIAK K-UNIT:

USGS QUADRANGLE:

SHORELINE TYPE: Lagoon

LOCAL STREAM #:

LATITUDE:

LONGITUDE:

LEGAL:

WAVE EXPOSURE: Low

ASC NUMBER: 262-10-10080

SURVEY TYPE: AS

METHOD: F

DATE: 5/2/96

START TIME: 1434

STOP TIME: 1525

TEAM RECORDER: E. Weiss

OBSERVERS: K. Schock, C. Larson, D. Yates, K. Kritchlow

AGENCY (IES): ADF+G / NPS / Exxon / WWC

PHOTOS TAKEN? N

Roll #:

Frames:

VIDEO TAKEN? N

Tape Number:

Counter Start:

SAMPLES TAKEN? N

SAMPLE I.D. NUMBERS: 1.

2.

3.

4.

5.

6.

OILING DATA

	LENGTH	WIDTH	M2	%	THICK	FEN	OIL TYPE
SITE 1	12	1	12	N/A	0.1 mm	Ø	ST
ITE 2	N/A	N/A	N/A	N/A	0.1 mm	Ø	ST
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT: VL

OIL IN STREAM CHANNEL? N

OIL ON BEACH WITHIN 50M OF STREAM MOUTH? Y

SUBSTRATE

Bedrock	Granule
Boulder	Sand
Cobble 60	Silt
Pebble 40	Veget.

SPECIES					
COUNT					

COMMENTS: ST/S on cobble bank south side of stream, mid tide area below storm berm where stream comes from lagoon. Also 3 foot section of oiled absorbent boom. ST/S also 12m x 1m in head of lagoon, some ST/L in storm drift line. Recommend some Type A removal of Debris (oiled boom, few PT)

NOTE: This stream joins in a common lagoon with the unnamed stream (262-10-10090)

ADF&G MULTI-ASSESSMENT FORM
1991 GENERAL ENTRY CHECKLIST

STREAM#: 2621010080
SEGMENT: CD020

PAGE 56

DATE PRINTED: 07/25/91

LOCATION: CAPE DOUGLAS, SOUTH OF

SURVEY TYPE: 90 CLEANUP

METHOD: GROUND

DATE: 06/28/90

TEAM RECORDER: BARNHART

START TIME: 1440

OBSERVERS: TOMBLIN HAROLD DREHER
ELLSWORTH

END TIME: 1530

TIDES: -0-

AGENCY: FG EXX USCG DEC NPS

OG/HAB DISCREPANCIES: -

PHOTOS TAKEN: N

STATION: 2621010080

ROLL#: -0-

FRAME: -0-

VIDEO TAKEN: N

TAPE#: -0-

START: -0-

END: -0-

SAMPLES TAKEN: N

SAMPLE NUMBERS: -0-

-0-

-0-

-0-

-0-

-0-

OIL IN STREAM BED: N

OVERALL OIL IMPACT: VL

OIL ON BEACH BY MOUTH: N

WAVE EXPOSURE: LOW

SHORELINE TYPE: LAGOON

SUBSTRATE TYPE: BEDROCK -0- BOULDER -0- COBBLE 60 VEGETAT -0-

GRAVEL 40 SAND -0- MUD/SILT -0- GRANULE -0-

ANADROMOUS FISH PRESENT: -

SPECIES: -0-

COUNT: -0-

-0-

-0-

-0-

-0-

-0-

-0-

-0-

-0-

ADF&G MULTI-ASSESSMENT FORM
1991 OILING ENTRY CHECKLIST

PAGE 57

DATE PRINTED: 07/26/91

STREAM# : 2621010080
SEGMENT#: CD020

SURVEY TYPE : 90 CLEANUP
DATE: 06/28/90
TIMES: 1440 - 1530

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-	10	1	10	-0-	-0- .05	0	CT ST CV
2	-0-	-0-	10	.5	5	-0-	-0- .05	0	CT ST
3	-0-	-0-	5	.5	2.5	-0-	-0- .05	0	CT ST
4	-0-	-0-	-0-	-0-	-0-	-0-	-0- .05	0	CV CT ST

was .01 - .10 (Ks 8/2/91)

ADF&G MULTI-ASSESSMENT FORM
1991 OILING ENTRY CHECKLIST



PAGE 58

DATE PRINTED: 07/26/91

COMMENTS:

ALSO PRESENT WAS MCBEE. OIL APPEARED IN THE FORM OF CV/CT/ST WHICH WAS NOT RECOVERABLE. THE MOUSSE LOCATED DURING THE SSAT SURVEY WAS NOT LOCATED DURING THE CLEANUP PHASE. THE ONE METER SECTION OF OILED ABSORBENT BOOM WAS NO LONGER PRESENT ON THE STREAM BANK. NOTE: THIS STREAM JOINS IN A COMMON LAGOON WITH THE UN-NAMED STREAM (2621010090).



'90 cleanup

ASC NUMBER:

SEGMENT NUMBER:

YR CATALOGED:

LOCATION:

STREAM NAME: Clear Creek

KODIAK K-UNIT:

USGS QUADRANGLE:

SHORELINE TYPE: Lagoon

LOCAL STREAM #:

LATITUDE:

LONGITUDE:

LEGAL:

WAVE EXPOSURE: Low

ASC NUMBER: 262-10-10080

SURVEY TYPE: CL

METHOD: F

DATE: 6/28/90

START TIME: 1440

STOP TIME: 1530

TEAM RECORDER: JEFF BARNHART

OBSERVERS: Tommy Tomblin, Greg Harold/Kerwin Dreher,
Terry Ellsworth, Don McBee

AGENCY (IES): ADFG, Exxon, USCG, ADEC, 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	10	1	10	NA	0.1mm to 4.1cm	Ø	CT, ST, CV
SITE 2	10	.5	.5	NA	0.1mm to 1mm	Ø	CT, ST
SITE 3	5	.5	2.5	NA	0.1mm to 1mm	Ø	CT, ST
SITE 4	N/A	N/A	N/A	NA	0.1mm to 4.1cm	Ø	CV, CT, ST
SITE 5							

OVERALL OIL IMPACT: VL

OIL IN STREAM CHANNEL? N

OIL ON BEACH WITHIN 50M OF STREAM MOUTH? N

SUBSTRATE

Bedrock	Granule
Boulder	Sand
Cobble 60	Silt
Pebble 40	Veget.

SPECIES

COUNT

COMMENTS: Oil appeared in the form of CV/CT/ST which was not recoverable. The mouse located during the SSAT survey was not located during the cleanup phase. The one meter section of oiled absorbent boom was no longer present on the stream bank.

: This stream joins in a common lagoon with the unnamed stream (262-10-10090)

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/K09-11-CD-020 STREAM NO: 262-10-10080 262-10-10090 DATE 5/2/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
1B Salmon stream mouth - spawning (7/10 to 8/31)
8AA Sensitive estuary

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

No ecological constraints regarding intertidal biota.

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: Ricki Joan Oser DATE: 5/22/90

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 mousse and cleanup debris as indicated on attached sketch map. Contact ADF&G for work window dates.

TAG COMMENTS:

TAG APPROVAL DATE: 5/18/90

ADEC ART WEINER Art Weiner

EXXON AMY TGA Real

NOAA Gary Petrac Gary Petrac

USCG G.A. BEITER G.A. Beiter

FOSC [Signature]

DATE: MAY 25 1990

+1F/FF/IF
ACE 1951198

5/18/90
pent

RECEIVED
MAY 15 1990

DEPT. OF
ENVIRONMENTAL CONSERVATION

ANADROMOUS FISH STREAM ASSESSMENT

REGION: KODIAK

SEGMENT: K09-11-CD-020

SUBDIVISION: A

STREAM NO: 262-10-10080 - Clear Creek } join in
262-10-10090 - no name } common
lagoon

S. Cape Douglas area

Agree = manual
cleaning / pickup KRM
Exxon est. = 1 man day ⁵⁻¹⁷⁻⁹⁰

ACE 1951199+/5

ANADROMOUS FISH STREAM EVALUATION

262-10-10080
SEGMENT ST/K09-11-CD-020 STREAM NO: 262-10-10090 DATE 5/2/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
1B Salmon stream mouth - spawning (7/10 to 8/31)
8AA Sensitive estuary

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

No ecological constraints regarding intertidal biota.

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: _____ 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: Recommend manual pick up of mousse and cleanup debris as indicated on attached sketch map. Contact ADF&G for work window dates.

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____
EXXON _____
NOAA _____
USCG _____

FOSC: _____ DATE: _____

ACE 1951200

KODIAK ECOLOGICAL CONSTRAINTS

- 1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
No disturbance of stream bed or banks unless authorized by ADF&G. No beach flushing into stream drainage. No bioremediation or other chemical application within 100m of stream without authorization from ADF&G. No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, unless authorized by ADF&G. Treatment which is not intrusive and which will not affect nearshore oil or toxicity levels, such as manual removal, can probably proceed without adherence to time constraints. In any case, contact ADF&G prior to treatment for consultation and/or permit application.
AGENCY CONTACT PERSON: ADF&G Ken Middleton 267-2299
- 1C Salmon fry nursery area (4/31 to 7/31)
No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, unless authorized by ADF&G. Treatment which will not affect nearshore oil or toxicity levels, such as manual or mechanical removal, can probably proceed without adherence to time constraints. Contact ADF&G prior to treatment for confirmation and advice.
AGENCY CONTACT PERSON: ADF&G Larry Peltz 424-3214
- 1D Kotol Bay Hatchery release
Pink salmon - late May, early June; Chum salmon - June; Sockeye salmon - early July.
- 1H Remote release site
No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, unless authorized by ADF&G. Treatment which will not affect nearshore oil or toxicity levels, such as manual or mechanical removal, can probably proceed without adherence to time constraints. Contact ADF&G for confirmation and authorization.
AGENCY CONTACT PERSON: ADF&G Larry Peltz 424-3214
- 1I Gill net area
1J Purse seine area
Mainland, West side Kodiak, Shuyak & Moser/Oiga Bay (6/9 to 10/1)
East side Kodiak, East side Afognak (7/4 to 10/1)
1K Purse seine hook-off
1L Set net sites
Contact ADF&G for confirmation - dates and locations may vary. Restrict boat and air traffic to essential minimum. When set net sites are present (1L) restrict beach operations to essential minimum as authorized by ADF&G. If plans for treatment include methods such as hot water wash or Inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization.
AGENCY CONTACT PERSON: ADF&G Larry Nicholson 424-4791
- 2M Herring spawning (4/15 to 6/30)
Contact ADF&G for confirmation - dates and locations may vary. Restrict boat traffic to essential minimum. Avoid damage to unopened intertidal and subtidal algae and seagrass. If plans for treatment include methods such as hot water wash or Inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization.
AGENCY CONTACT PERSON: ADF&G Larry Nicholson 486-4791
- 3N, 3P Harbor seal and sea lion pupping (5/10 to 7/1)
3O, 3Q Harbor seal and sea lion molting (8/15 to 9/15)
Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts. No application of Inipol within two weeks of arrival dates (work window at these sites is limited to 7/2 to 7/31). Contact ADF&G and USFWS prior to treatment for confirmation.
AGENCY CONTACT PERSON: US National Marine Fisheries Service Steve Zimmerman 586-7235
ADF&G Don Calkins 267-2403
- 5R Seabird colony (5/1 to 9/1)
Restrict air and boat traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance from colony. Contact USFWS prior to treatment.
AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
- 5S Shorebird/waterfowl concentration (4/1 to 5/15)
Restrict all activity to essential minimum, especially air traffic. Contact USFWS and ADF&G for confirmation.
AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
ADF&G Tom Roth 267-2206
- 5T All Bald Eagle nests (3/1 to 6/1)
Active Bald Eagle nests (3/1 to 9/1)
Restrict air traffic and all disturbance to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates
AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
- 6U Recreation: Tent sites (6/1 to 9/15)
6V Anchorages (6/1 to 9/15)
6W Forest Service cabins (6/1 to 9/15)
6X Lodge (6/1 to 9/15)
6Y Special use destination
- 7Z Subsistence area: Salmon harvesting (6/1 to 9/30)
7HH Finfish harvesting
7H Deer harvesting (8/1 to 1/7)
7JJ Invertebrate harvesting
7KK Bear harvesting (4/1 to 5/15 and 10/25 to 11/30)
Contact ADF&G and appropriate Native Corporation for specific dates, locations, and constraints. Restrict boat and air traffic and beach disturbance to essential minimum. If plans for treatment include methods such as hot water wash or application of Inipol which might affect intertidal or nearshore oil or toxicity levels, contact ADF&G and appropriate Native Corporation for authorization - see Native Corporation Contact List for each Native Corporation's contact person.
AGENCY CONTACT PERSON: ADF&G Jim Fall 267-2359

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / CD-20 A SUBDIVISION: 262-10-10080 DATE 02 MAY 90
262-10-10090

USCG

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

Type A manual removal.

~~ADEC~~ → ADF&CNAME Edward W. Weiss SIGNATURE Edward W. Weiss☐ NO TREATMENT RECOMMENDED
COMMENTS☒ TREATMENT SUGGESTEDSUGGEST REMOVAL OF OILY DEBRIS (BOOM, ETC) AND
SMALL BAND OF PATTIES.~~LAND MANAGER~~ NPSNAME Carl Schuch SIGNATURE Carl Schuch☒ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTEDThis lagoon/estuary system is very protected and any
oil and oiled debris can be expected to persist for
a long time. A cleanup crew should be sent in to remove
oiled drift, rope, sorbent boom and band of patchy mussels.

ACE 1951202

SHORELINE OILING SUMMARY (ANAO)

REVISION NO 04/13/80

OG CAL LARSON USCG DREHER, CWE SEGMENT ST/ 160912 KASO
 BIO KEN CRITCHLOW LAND REP CARL SCHACH STREAM 202-10 * (OF)
 EXXON DARLYL YOE ADFG #0 WIFE TIME 02:20 to 3:30 10090 CLE
 TEAM NO. 14 TIDE LEVEL +1.9 FT DATE 5/12/90 *10080 MONU
 EST. SUBDIVISION LENGTH: 900 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow CRACK
 UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R % B % C 30 % P 30 % G 30 % S 10 % M % V
 SLOPE: Lang % Hang % Vert % WAVE EXPOSURE: ☐ Low ☐ Med ☒ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 25 m NO 875 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR						IMPACTED ZONES			
	C	B	P	R	SP	BP	ST	DR	TL	LB	SU	U	M	L
ASPHALT PAVEMENT														
POOLED														
COVER														
COAT														
STAIN				✓		✓						✓		
MOUSSE														
PATTIES				✓		✓						✓		
TARBALLS														
FILM														
NO OIL											✓		✓	✓

PAVEMENT H F S 0 sq. m by 0 orPATTIES / TARBALLS 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	BELOW		OIL / FILM COLOR								PIT ZONE				A N A	SHEEN (Y/N)	▼	SURFACE - SUBSURFACE SEDIMENTS	
		OP	OR	OL	OF	NO		UO	UC	SP	BP	ST	DR	TL	LB	SU	U	M	L							

COMMENTS NO PITS DUG DUE TO LACK OF OIL PENETRATION.

REVIEWED 7WDATE 5/4/90

ACE 1951203

SKETCH MAP

SEGMENT ST K-0912

STREAM 262-10

10090 CLEAR CREEK
10080 MONUMENT CREEK

DATE 5/2/90

CHECKLIST

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

LEGEND

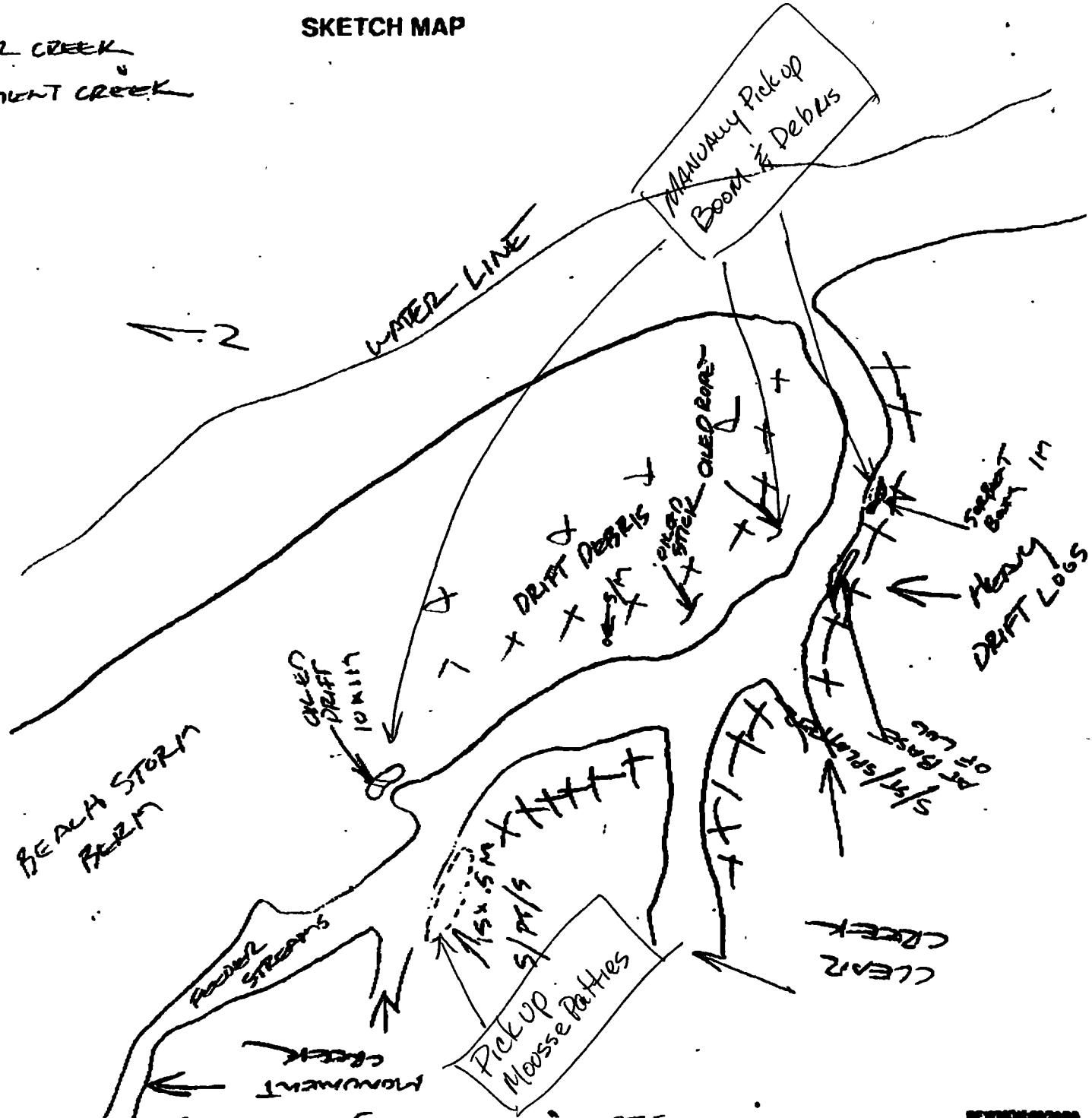
- 1 Δ
PH - No Subsurface Oil
- 2 Δ
PH - Subsurface Oil
- CT/C

Continuous Distribution
- CT/B

Broken Distribution
- CT/P

Patchy Distribution
- CT/S

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



ACE 1951204

Oil Character Length (m): AP PO CV CT ST 20 MS PT 5 TB FL NO 875

ASC 262-10-10070

ADFG MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: 00 00 00 TS AVS SCNA HHS PTA2 REGION: PWS KP, CI K 02METHOD: Aerial Ground Boat3 DATE: 5/2/9016 HIGH TIDE TIMES: 121 TEAM RECORDER: E. WEISS4 START TIME: 143416 HIGH TIDE HTS: 122 OBSERVERS: K. SCHOCK, C. LARSO5 STOP TIME: 152517 LOW TIDE TIMES: 155023 AGENCY: ADFG/EXXON/NAS/WW6 SEGMENT #: CD20A18 LOW TIDE HTS: 1.9

24 PHOTOS TAKEN: Y N

7 STATION #: _____

19 TIDE HT AT SURVEY: _____

Roll #: _____ Frame: _____

8 K-UNIT: K091120 USCG QUAD: AF09NAX D-525 VIDEO TAKEN: Y ☒ TAPE: _____

9 STAT AREA: _____

20 USCG QUAD: AF09NAX D-5

Starts: _____ Ends: _____

10 LAT: 38 48 2011 LONG: 153 22 726 SAMPLES TAKEN Y ☒ Number12 SOURCE: Map Loran CATALOG

Oil _____

13 LOCATION: 24mi SW OF VABM "SOUTH DOUGLAS"

Sediment _____

14 DESCRIPTION: LEGAL DESCRIPTION S 16S 28W 12

Biological _____

EXTENT OF OIL

Water _____

27 SURFACE COVERAGE

SHORELINE				STREAM			
L	N	W	S	L	N	W	S

36 CATALOGED ANAD. FISH SKELET X N

262-10-10090

37 CATALOG #: 262-10-10080

CLEAR CREEK

38 STREAM NAME: MONUMENT CREEK

28 SURFACE THICKNESS

39 OIL IN STREAM BED? Y ☒

29 PENETRATION

40 OIL ON STREAM BANK? ☒ N30 OVERALL OIL IMPACT: N 0 L N H

41 OIL ON BEACH ADJACENT TO MOUTH? Y N

31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain

42 OIL WITHIN 1 MILE OF STREAM Y N

32 OILED DEBRIS? ☒ N

Where: _____

33 SHORELINE TYPE: Woodland Logos Low-lying Rocks Beach Cove

43 ANADROMOUS FISH PRESENT? Y N

34 WAVE EXPOSURE: High Moderate Low

44 ANADROMOUS FISH OBSERVATION

35 SUBSTRATE TYPE: Bedrock _____ Boulder _____ Cobble 60

Species Aerial Ground

Gravel 40 Sand _____ Mud/silt _____

ACE 1951205

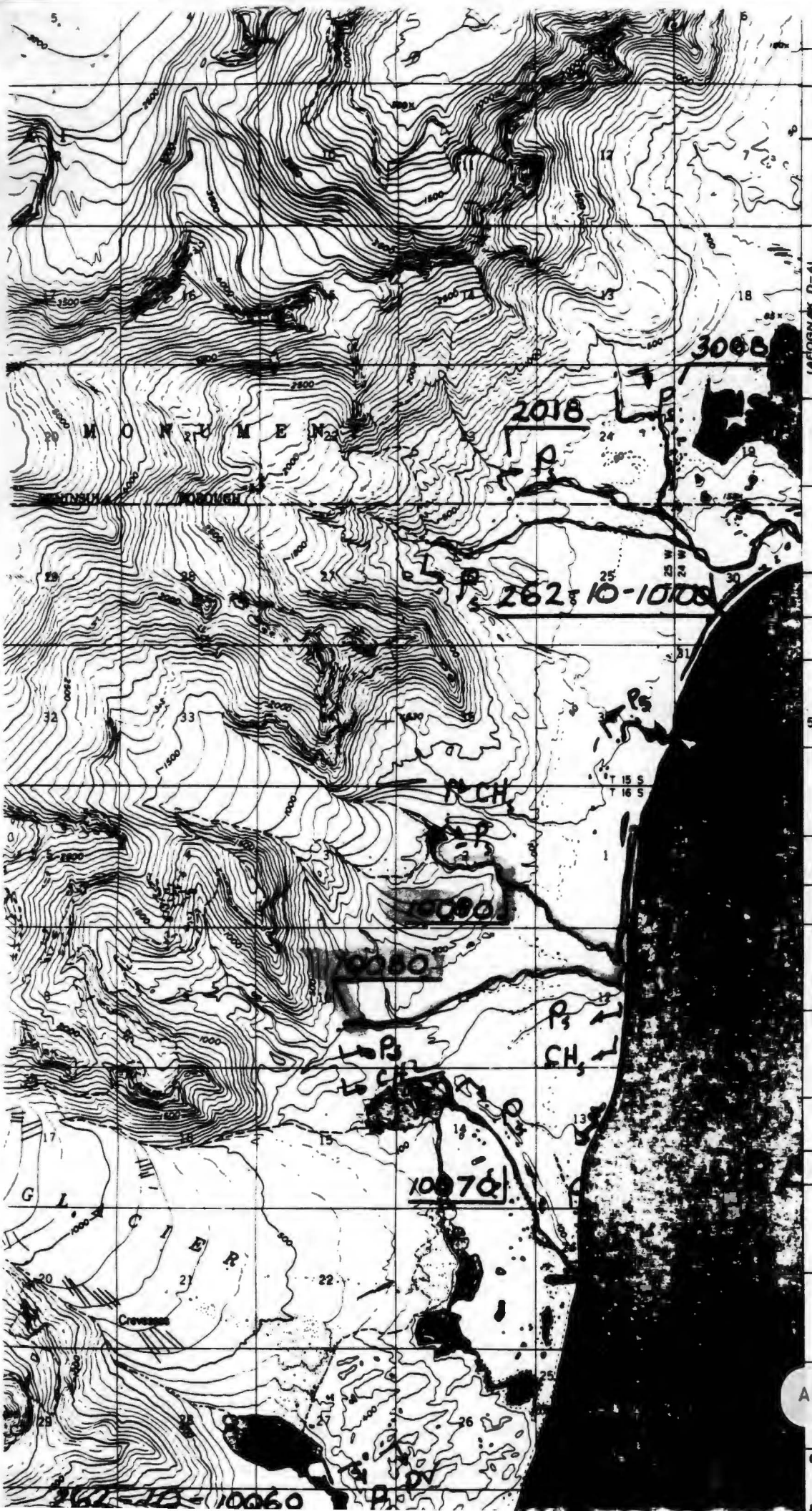
COMMENTS: ST/S ON COBBLE BANK SOUTH SIDE OF STREAM
MID TIDE AREA BELOW STORM BERM. WHERE STREAM
COMES FROM LAGOON. ALSO 3' SECTION OF OILED ABSORBENT
BOOM. ST/S ALSO 12 M x 1 M IN HEAD OF LAGOON.
SOME ST/L IN STORM DRIFT LINE.
RECOMMEND: SOME TYPE OF REMOVAL OF DEBRIS (OILED BOOM FEW P

Seg ID: CD-20A Subdiv: 262-10-10080 Monument Crk
Survey Date: 5/2/90 262-10-10090 Clear Crk
Comments by: Ken Gitchlow

Two streams, Monument (No.) and Clear (So.) creeks, feed into a common lagoon behind a large storm berm and log jam that protect the lagoon from high energy exposure that affects the fronting beach. No oil nor marine organisms was observed on the beach. The left (So.) bank of the stream where it crosses the beach was characterized by a heavy log jam at the base of which oil stain was observed along with some splatter. A sorbent boom stained by oil was found in this location. Some small areas of oiled drift, mousse, pattres and stain were observed near the water's edge in the lagoon.

No ecological constraints were apparent.

KR Gitchlow



1AFOGNAK D-41

K9N-11
CD 20

USGS Map
AFOGNAK (D-5)

ACE 1951207-18

6513000m N.

50°45'

ANADROMOUS FISH STREAM EVALUATION

262-10-10080 ✓
SEGMENT ST/K09-11-CD-020 STREAM NO: 262-10-10090 DATE 5/2/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
1B Salmon stream mouth - spawning (7/10 to 8/31)
8AA Sensitive estuary

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

No ecological constraints regarding intertidal biota.

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: Ricki Joan Orr DATE: 5/22/90

Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

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

COMMENTS: Recommend manual pick up of mousse and cleanup debris as indicated on attached sketch map. Contact ADF&G for work window dates.

TAG COMMENTS: _____

TAG APPROVAL DATE: 5/18/90

ADEC ART WEINER Art Weiner

EXXON AMY TETL Real

NOAA GARY PETRAE Gary Petrae

USCG G.A. REITER G.A. Reiter

FOSC: [Signature]

DATE: MAY 25 1990

ACE 1951221 + 152

۷۷

10090 CLEAR CREEK

10000 MONUMENT CREEK

CHECKLIST

- ___ N Arrow
 ___ Approx. Scale
 ___ Seg/Tab Bindy
 ___ Od. Det.
 ___ Width
 ___ Length
 ___ % Cover
 ___ Substrate Character
 ___ Est. MYLAWL
 ___ SSL
 ___ Profile Location(s)
 ___ Profile(s)
 ___ PH Location(s)
 ___ Photo Location(s)

1 A

PM - No Subsurface CW



FM - Suburbs of CG . .

CTAC

Confucius Distribution

CT/B

Broken Distribution

CT/P

Patchy Distributions

CT/9

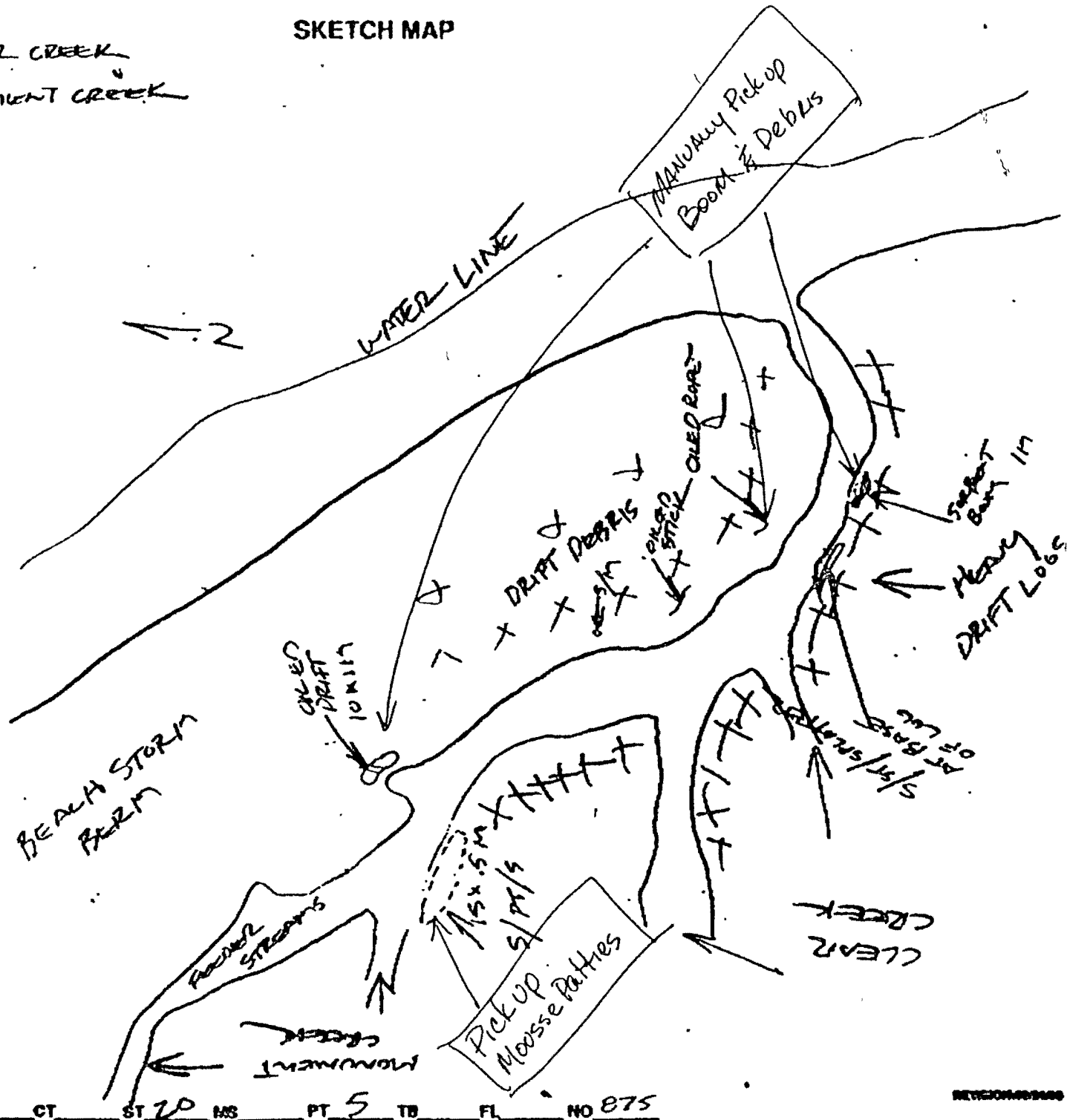
Estimated Distribution

Chad Vegetation

1 

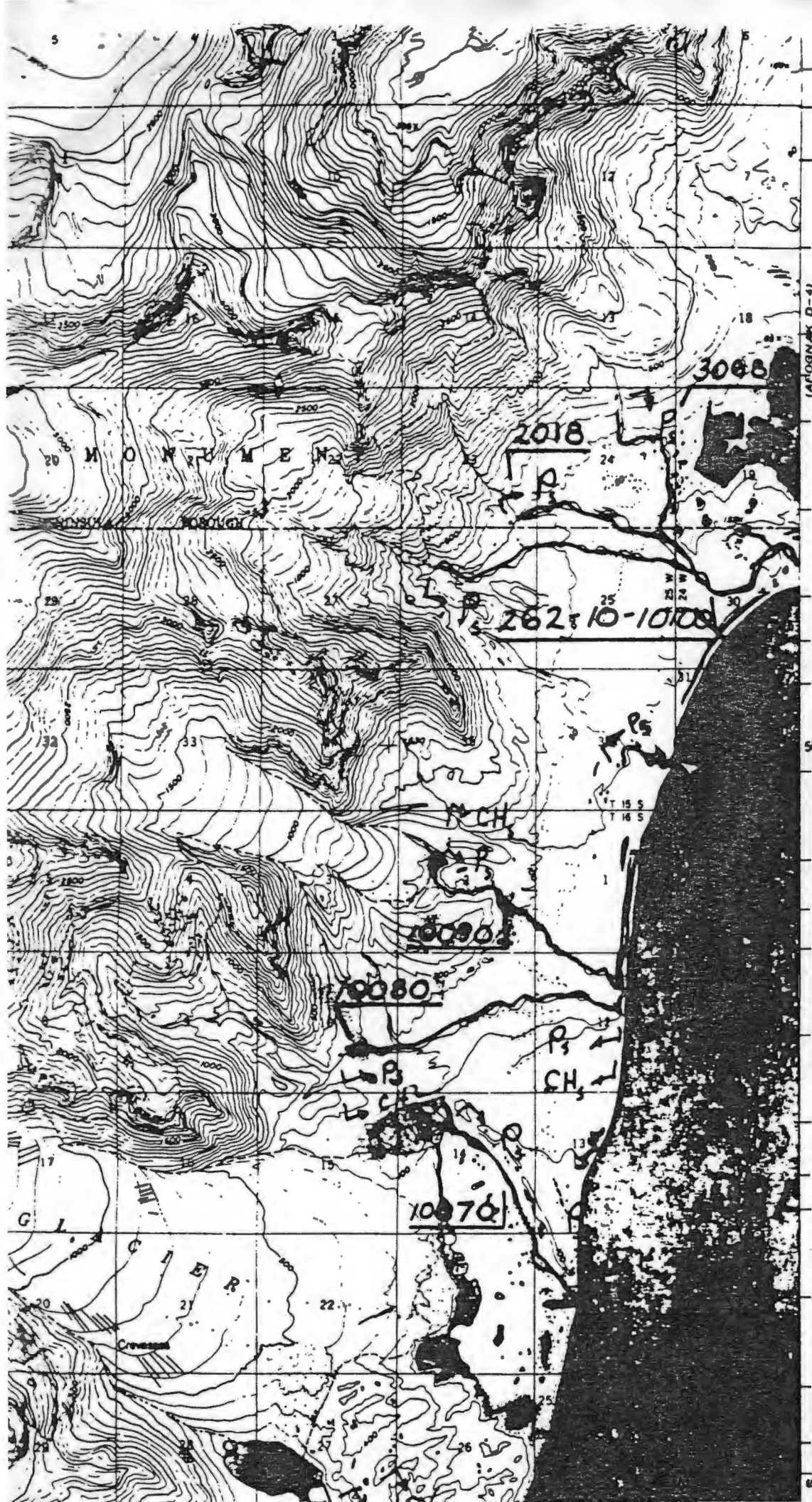
Photo location, direction,
and number

ACE 1951222



Oil Character Length (m): AP PO CV CT ST 20 MS PT 5 TB FL NO 875

RESEARCH DESIGN



K9N-11
CD 20

USGS Map
AFOGNAK (D-5)

ACE 1951223-12

ANADROMOUS FISH STREAM EVALUATION

262-10-10080
SEGMENT ST/K09-11-CD-020 STREAM NO: 262-10-10090 DATE 5/2/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
1B Salmon stream mouth - spawning (7/10 to 8/31)
8AA Sensitive estuary

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

No ecological constraints regarding intertidal biota.

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 Joan Doe DATE: 5/22/90

Subsurface Oil Observed: Yes_____ No X Maximum Depth_____

RECOMMENDATIONS:

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

COMMENTS: Recommend manual pick up of mousse and cleanup debris as indicated on attached sketch map. Contact ADF&G for work window dates.

TAG COMMENTS:

TAG APPROVAL DATE: 5/18/90

ADEC ART WEINER Art Weiner

EXXON Aug/TGAL Real.

NOAA Gary Petrac Law Office

USCG G.D. REITER 'G.A. F...

FOSC: *[Signature]* DATE: MAR 20 1969

ACE 1951224 + / S

SKETCH MAP

SEGMENT ST1 K-0912

STREAM: 262-10

DATE 5, 2: 90

CHECKLIST

- ___ N Arrow
- ___ Approx. Scale
- ___ Seg/Sub Study
- ___ Off Dist.
- ___ Width
- ___ Length
- ___ % Cover
- ___ Substrate Character
- ___ Est. HML/LML
- ___ SSL
- ___ Profile Location(s)
- ___ Profile(s)
- ___ Pk Location(s)
- ___ Photo Location(s)

LEGEND

FM - No Subsurface Oil

2A
PM - Subsurface Oil ..

CT/C
Continuous Distribution

C7/B
Broken Distribution

CT/P
Patchy Distribution

[CT/S]
Spliced Distribution

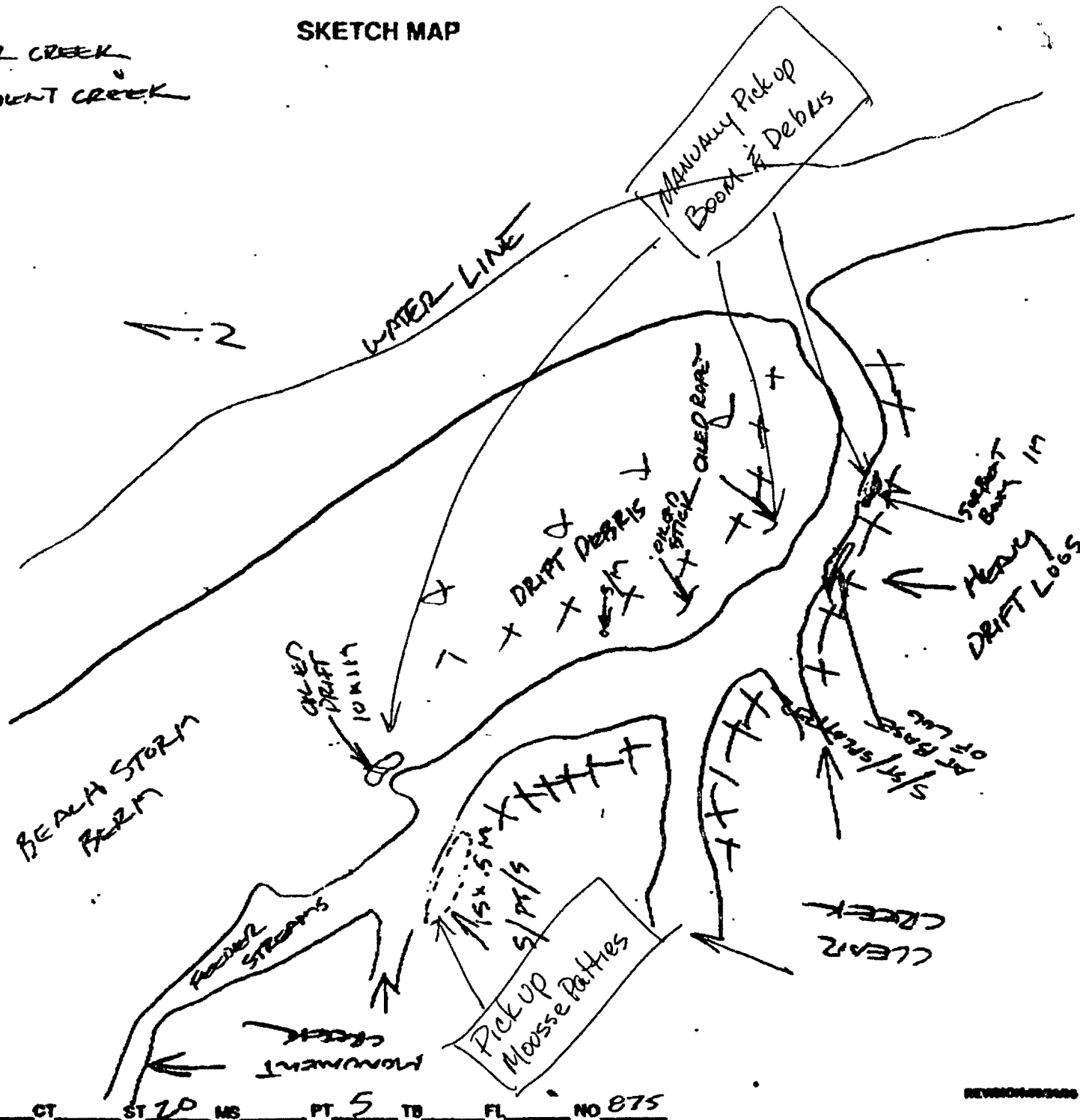
eee
Oiled Vegetables

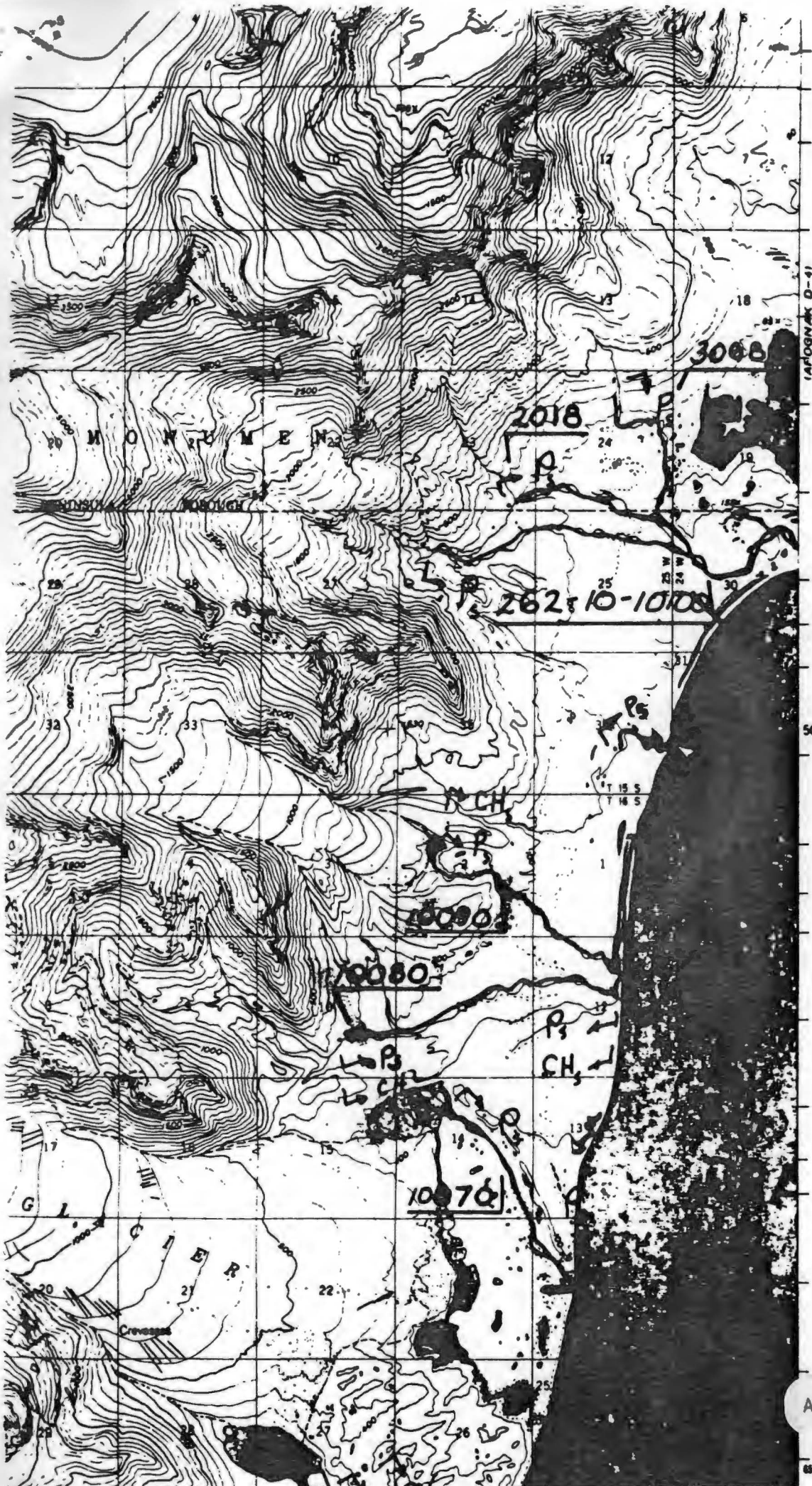
1 ~~22~~
Photo location, direction,
and number

ACE 1951225

OS Character Length (m): AP PO CV CT ST 20 MS PT 5 TB FL NO 875

Keywords: *work, work-life balance, work-family balance, work-family conflict, work-family interface, work-family issues, work-family research, work-family studies, work-family topics, work-family variables, work-family research topics, work-family research areas, work-family research fields, work-family research domains, work-family research subjects, work-family research issues, work-family research problems, work-family research questions, work-family research topics, work-family research areas, work-family research fields, work-family research domains, work-family research subjects, work-family research issues, work-family research problems, work-family research questions*





K9N-11
CD 20

USGS Map
AFOGNAK (D-5)

ACE 1951226-15

ANADROMOUS FISH STREAM EVALUATION ADDENDUM

CONSTRAINTS FOR STREAM NOS. 262-10-10080 and 262-10-10090

SEGMENT K09-12-CD-020 SUBDIVISION A

WORK WINDOW	
Manual Pickup	OPEN

ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

1A,1B Salmon Stream

ADF&G catalogued anadromous streams (262-10-10080 and 262-10-10090) are in Subdivision A. No constraint to manual pickup.

OTHER ECOLOGICAL CONSIDERATIONS

No disturbance to stream bed or banks. Avoid any unnecessary disturbance or damage to unrolled biota and substrate. Sensitive estuary.

SEE SUBDIVISION CONSTRAINT ADDENDUM K09-12-CD-020
FOR ADDITIONAL CONSTRAINT INFORMATION.

FOSC

[Signature]

Date

6-16-90

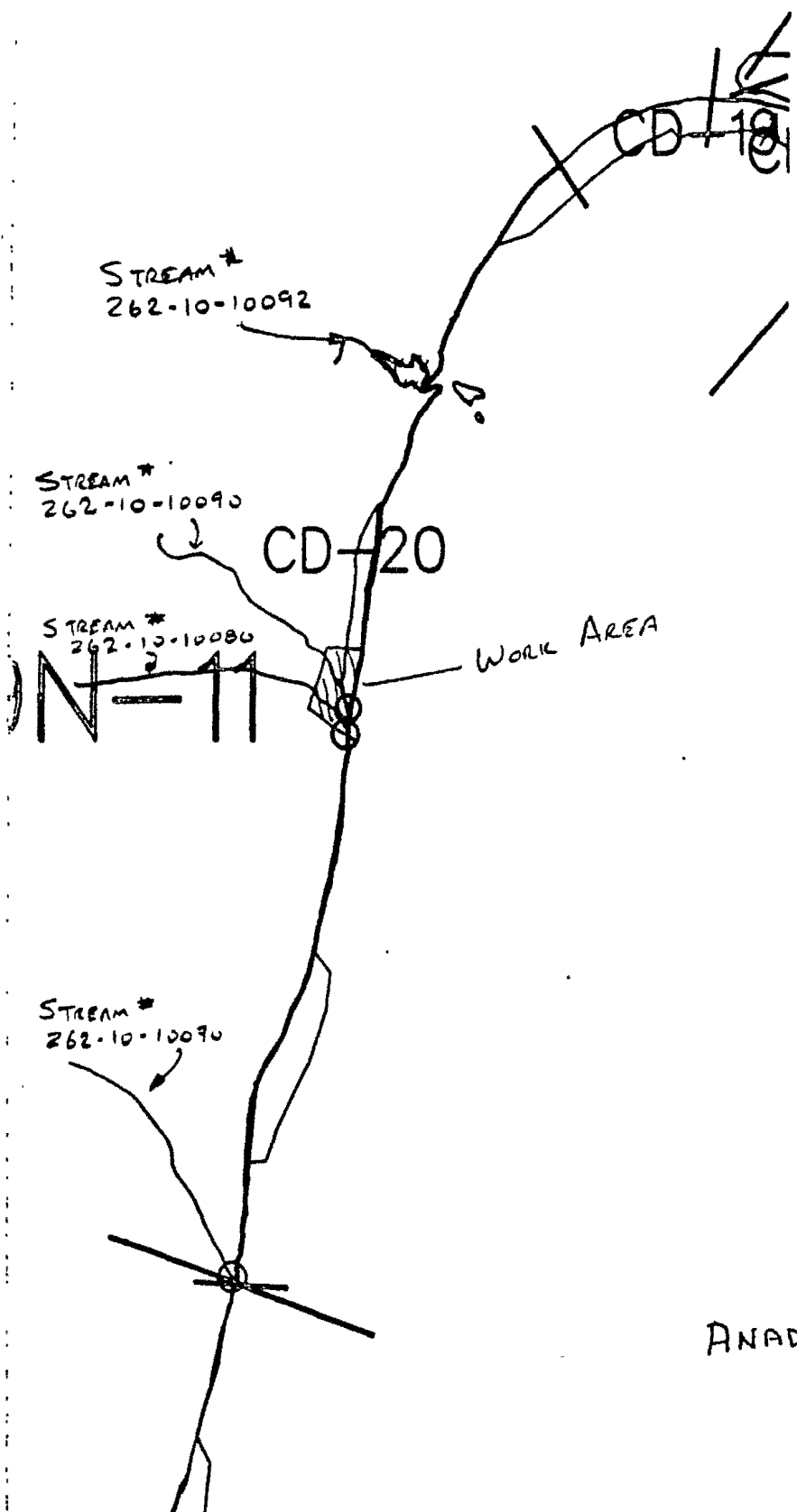
Prepared by

[Signature]

Date

6/15/90

ACE 1951227 +/S



ANADROMOUS Stream Evaluation

ACE 1951228

TREATMENT



Exxon Company, USA
Map Key: AKP-CD-20
June 08, 1990



ECOLOGY MAP
SEGMENT K9N-11 CD-20
SUBDIVISION A (1 of 1)
METERS

0 1225 2449

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

1 inch = 4018 feet

ANADROMOUS FISH STREAM EVALUATION

262-10-10080
SEGMENT ST/K09-11-CD-020 STREAM NO: 262-10-10090 DATE 5/2/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
1B Salmon stream mouth - spawning (7/10 to 8/31)
8AA Sensitive estuary

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

No ecological constraints regarding intertidal biota.

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: Rubel Jean Doe DATE: 5/22/90

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 mousse and cleanup debris as indicated on attached sketch map. Contact ADF&G for work window dates.

SEE CONSTRAINT ADDENDUM DATED 6/15/90 *JP*

TAG COMMENTS:

TAG APPROVAL DATE: 5/18/90

ADEC Art Weiner *Art Weiner*

EXXON Art Telle *Art Telle*

NOAA Gary Petrac *Gary Petrac*

USCG G.A. Reiter *G.A. Reiter*

FOSCA *[Signature]* DATE: MAY 25 1990

ACE 1951229
-15/FF/HF

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 HabitatDATE: 5/7/90No. Pages: 10
(including this page)FROM: J. BARNHART
Kodiak HabitatMESSAGE: No name
~~Clear Creek~~ 262-10-10090, south of Cape Douglas
Clear Creek 262-10-10080, south of Cape Douglas
Segment CD 20A

ANAD SCAT

ALASKA DEPT. OF
FISH & GAME

MAY 07 1990

REGION II
HABITAT DIVISION

ACE 1951211 +/S

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / CD-20 A SUBDIVISION: 262-10-10080 DATE 02 MAY 90
262-10-10090 - Clear Crk. No name

USCG

NAME Kerwin L. Dreher SIGNATURE Cwo K. L. Dreher

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

Type A manual removal.

~~ADEC~~ → ADF&G

NAME Edward W. Weiss SIGNATURE Edward W. Weiss

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

SUGGEST REMOVAL OF OILY DEBRIS (BOOM, ETC) AND
SMALL BAND OF PATCHES.

~~LAND MANAGER~~ → NPS

NAME Carl Schoch SIGNATURE Carl Schoch

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

This lagoon/estuary system is very protected and any
oil and oiled debris can be expected to persist for
a long time. A cleanup crew should be sent in to remove
oiled drift, rope, sorbent boom and band of patchy mousse.

ACE 1951212

ANAD
SSAT DATA ENTRY FORMPAGE 1 OF 2GENERAL DATA

262-10
10080 &
10090
SEG ID: CD-20A SUBDIV: 10090 TEAM: 14 SURVEY DATE: 5/2/90
PAVEMENT: CHAR — AREA — THICKNESS — TARBALLS —
OILED: LGS — VEG — TRH — DBR — WAVE EXP: LW — MD — HG X
FAX RCVD: — DT: — AGENCY DISAGREE: —
EST SUBDIV LGTH: 900 OIL CATEGORY: W — M — N — VL 25 NO 875U —

SURFACE DATASURFACE SEDIMENT: BRK — BLD — COB 30 PEB 30 GRN 30 SAN 10 MUD — VEG —CHAR #: 1 OIL CHAR: ST OIL DIST: CONT — BRKN — PTCH — SPLH X
OIL CLR: DBL FILM CLR: RW TIDAL ZONE: SU — UI X MI — LI —CHAR #: 2 OIL CHAR: PT OIL DIST: CONT — BRKN — PTCH — SPLH X
OIL CLR: DBL FILM CLR: RW TIDAL ZONE: SU — UI X MI — LI —CHAR #: — OIL CHAR: — OIL DIST: CONT — BRKN — PTCH — SPLH —
OIL CLR: — FILM CLR: — TIDAL ZONE: SU — UI — MI — LI —CHAR #: — OIL CHAR: — OIL DIST: CONT — BRKN — PTCH — SPLH —
OIL CLR: — FILM CLR: — TIDAL ZONE: SU — UI — MI — LI —CHAR #: — OIL CHAR: — OIL DIST: CONT — BRKN — PTCH — SPLH —
OIL CLR: — FILM CLR: — TIDAL ZONE: SU — UI — MI — LI —CHAR #: — OIL CHAR: — OIL DIST: CONT — BRKN — PTCH — SPLH —
OIL CLR: — FILM CLR: — TIDAL ZONE: SU — UI — MI — LI —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 1951213

No Pits Dug

ANAD

SSAT DATA ENTRY FORM

SUBSURFACE DATA

PAGE 2 OF 2

SEGMENT ID: CD-20A SUBDIV: 100808
10090

100804
10090

1000000

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 1951214

SHORELINE OILING SUMMARY (ANAO)

REVISION NO. 04/12/90

OG CAL LARSON USCG DREHER, CWE SEGMENT ST/ K0912 K050
 BIO KEN CRITCHLOW LAND REP CARL SCHACH STREAM 202-10 * (OF)
 EXXON DARL YOE ADFG ED WISS TIME 02:20 to 03:30
 TEAM NO. 14 TIDE LEVEL +1.9 FT DATE 5/2/90 *100 GULLER CREEK
 EST. SUBDIVISION LENGTH: 900 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R % B % C 30 % P 30 % G 30 % S 10 % M % V %
 SLOPE: Long % Hang % Vert % WAVE EXPOSURE: ☐ Low ☐ Med ☒ High
 OIL CATEGORY LENGTH: W m M m N m VL 25 m NO 875 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	AC	AB	AP	AS	BR	BL	FW	GY	SL	DIR	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 BAGSNEAR SHORE SHEEN? ☒ 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	BL	FW	GY	SL	DIR	TL	LR	SU	U	M	L				

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

ACE 1951215

***** DEPTA000000000000 *****

SKETCH MAP

SEGMENT ST/ K-0912
STREAM 262-10 { 10090 CLEAR CREEK
10080 MONUMENT CREEK

DATE 5 / 2 / 90

CHECKLIST

- ☐ N Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Bndry
- ☐ On Dial
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. H.W.L.A.W.L.
- ☐ SSL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ PH Location(s)
- ☐ Photo Location(s)

LEGEND

1 Δ

P11 - No Subsurface Oil

24

PH - Subsurface Oil . . .

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

Splashed Distribution

220

Cold Vegetation

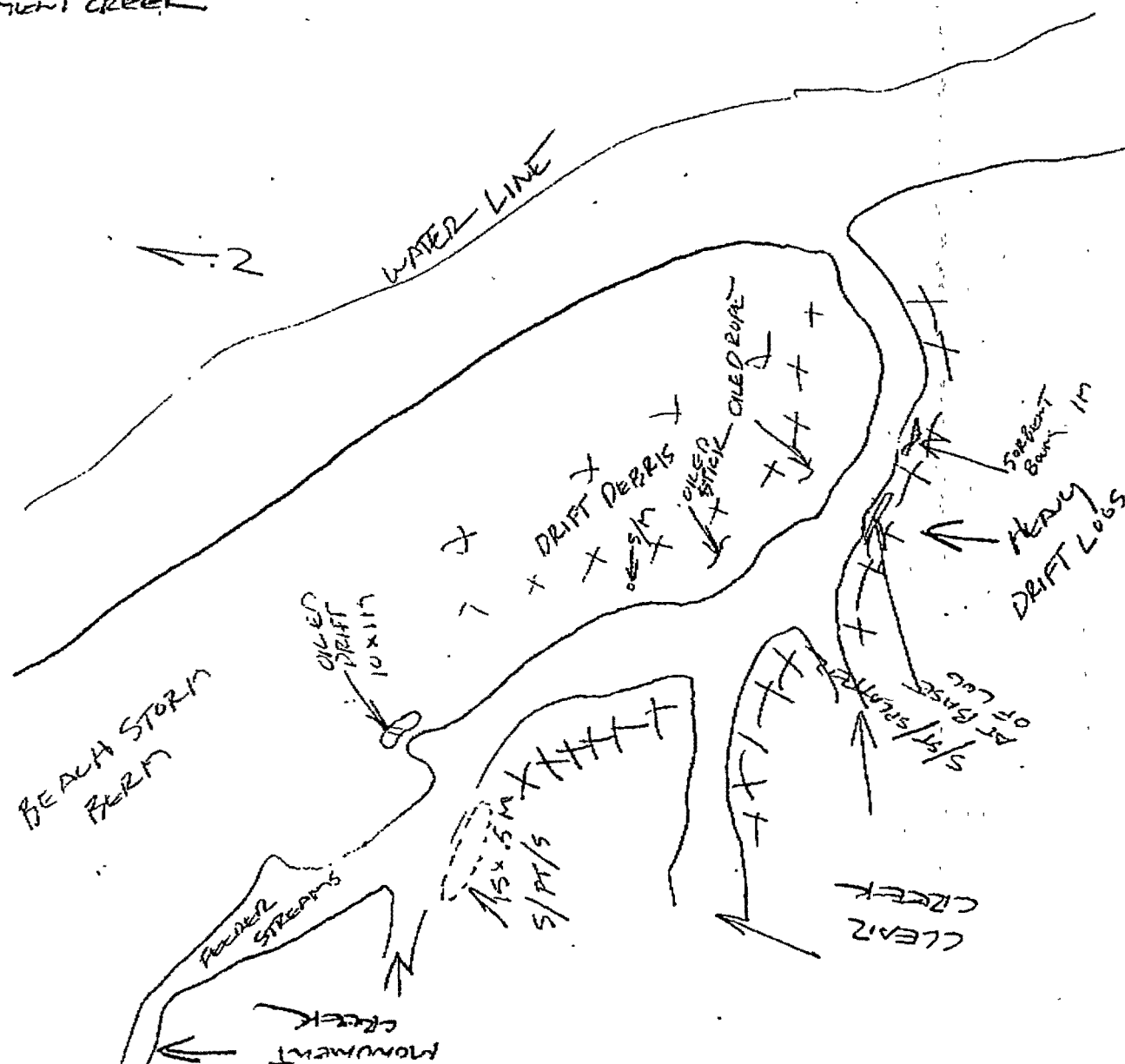
1

**Photo location, direction,
and number**

ACE 1951216

Oil Character Length (m): AP _____ PO _____ CV _____ CT _____ ST 20 MS _____ PT 5 TB _____ FL _____ NO 875

REVISIONS: 13/1/93



OPERATIONS FIELD NOTES

See Back for Instructions

K-911:
 SEGMENT ID ANAD CO-20A
 STREAM ID # 262-10-10080 { 10090 CLETA CREEK
 10080 MOUNTAIN CREEK
 ANNOTATED MAP INCLUDED YIN

DATE 5-2-90
 NAME DARIN YOST
 TEAM # 14

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

SUBSURFACE OIL

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

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

MANUAL PICKUP	Type of Debris			In Meters			# of Bags	Pickup	Manday
	Mousse	Oiled	Cleanup	Length	Width	# of		Y/N	Estimate
"Pocket" #1			<u>✓</u>	<u>3'</u>	<u>50cm</u>	<u>1</u>		<u>Y</u>	<u>1</u>
"Pocket" #2	<u>✓</u>			<u>15</u>	<u>5</u>	<u><1</u>		<u>Y</u>	<u>1</u>
"Pocket" #3									
Random/Continuous									

OILED LOGS <u>YIN</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? YIN How Many Bags? 2 Is it mingled with the Oiled Debris? YIN

GENERAL

Snow covering 0 % of the Supratidal Zone?
 Wave Exposure H/M/L Access Limitations: VERY DIFFICULT FOR BOAT - HELD OK
 Snare Boom/Pom Poms Recommended? NO STREAM IS SOMEWHAT SHELTERED

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

COMMENTS:

WORK IN THIS STREAM AREA REQUIRES ADE 96 AND NPS
PRESENT WORK SHOULD BE PLANNED FOR PERIOD 5-15 -> 7-10
SURVEYED THESE STREAMS IN NOV OF 262-10-10070 AT
REQUEST OF ADE 96. SURVEY NOT RECD ON 262-10-10070

MAY 07 '90 16:11 DEPTAAAAAAAAAAAAA

Seg ID: CD-20A Subdiv: 262-10-10080 Monument Crk
Survey Date: 5/2/90 262-10-10090 Clear Crk
Comments by: Ken Critchlow

Two streams, Monument (No.) and Clear (So.) creeks, feed into a common lagoon behind a large storm berm and log jam that protect the lagoon from high energy exposure that affects the fronting beach. No oil nor marine organisms was observed on the beach. The left (So.) bank of the stream where it crosses the beach was characterized by a heavy log jam at the base of which oil stain was observed along with some splatter. A sorbent boom stained by oil was found in this location. Some small areas of oiled drift, mousse, pattres and stain were observed near the water's edge in the lagoon.

No ecological constraints were apparent.

KR Critchlow

MAY 07 '90 15:12 DEPT AAAAAAAAAAAAAAAAAA ELEV AS GLACIER LAKE CREEK 10/10 ANADASE
ASC 262-10-10070

ADF&C MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS SS DS TS AVS SCHA MMS PTA 2 REGION: PWS KP, CI K, Q
METHOD: Aerial Ground Boat
3 DATE: 5/2/90 15 HIGH TIDE TIMES: 1 21 TEAM RECORDER: E. WEISS
4 START TIME: 1434 16 HIGH TIDE HTS: 1 22 OBSERVERS: K. SCHOCK, C. LARSON
5 STOP TIME: 1525 17 LOW TIDE TIMES: 1550 23 AGENCY: ADFG/EXXON/NAS/LWW
6 SEGMENT #: CD20A 18 LOW TIDE HTS: 1.9 24 PHOTOS TAKEN: Y N
7 STATION #: _____ 19 TIDE HT AT SURVEY: _____ Roll #: _____ Frames: _____
8 K-UNIT: K0911 Ebb Slack Flood Slack 25 VIDEO TAKEN: Y X TAPES: _____
9 STAT AREA: _____ 20 USCG QUAD: AFOGNAK D-5 Start: _____ End: _____
10 LAT: 58 48 20 11 LONG: 153 22 7 26 SAMPLES TAKEN Y X Number
12 SOURCE: Map Loran CATALOG Oil _____
13 LOCATION: ~4 MI SW OF VABM "SOUTH DOUGLAS" Sediment _____
14 DESCRIPTION: LEGAL DESCRIPTION S 16S 25W 12 Biological _____
Water _____

EXTENT OF OIL

SHORELINE L W M² % STREAM L W M² %
27 SURFACE COVERAGE

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

 36 CATALOGED ANAD. FISH SREANT? X N
28 SURFACE THICKNESS

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

 37 CATALOG # 262-10-10090
29 PENETRATION

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

 38 STREAM NAME: CLEAR CREEK
30 OVERALL OIL IMPACT: N VL L M H 39 OIL IN STREAM BED? Y X
31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain 40 OIL ON STREAM BANKS? X N
32 OILED DEBRIS? X N 41 OIL ON BEACH ADJACENT TO MOUTH? Y N
33 SHORELINE TYPE: Headland Low-lying Rocks Beach Cove (within 50 meters)
Lagoon Marsh 42 OIL WITHIN 1 MILE OF STREAM? Y N
34 WAVE EXPOSURE: High Moderate Low Where: _____
35 SUBSTRATE TYPE: Bedrock Boulder Cobble 60 43 ANADROMOUS FISH PRESENT? Y N
Gravel 40 Sand Mud/silt 44 ANADROMOUS FISH OBSERVATION
Species Aerial Ground

ACE 1951220-1/2

COMMENTS: ST/S ON COBBLE BANK SOUTH SIDE OF STREAM
MID TIDE AREA BELOW STORM BERM, WHERE STREAM
COMES FROM LAGOON. ALSO 3' SECTION OF OILED ABSORBENT
BOOM. ST/S ALSO 12 M X 1 M IN HEAD OF LAGOON.
SOME ST/L IN STORM DRIFT LINE.
RECOMMEND: SOME TYPE A) REMOVAL OF DEBRIS (OILED BOOM FEW FT

K9-11 CD-20 AFS 262-10-10080
Clearcreek 262-10-10090
+
unnamed creek 1990

ACE 1951168

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 / Dick
Anch HabitatDATE: 5/14/90No. Pages: 5
(including this page)FROM: J. Barnhart
Kodiak Habitat

MESSAGE:

The Final (hopefully) version of stream names/numbers
in the vicinity of Cape Douglas, Alaska Peninsula
corrected preanadssat forms for your use.
Questions? Call me.
JLB

ALASKA DEPT. OF
FISH & GAME

MAY 15 1990

REGION II
HABITAT DIVISION

ACE 1951208 +/S

MAY-11-1990 12:58 FROM EXXON SCAT

TO

94865044

P.02

Cape Doug
Area

① On the preanadssat we called this clear creek, 262-10-10090

② On the anadssat we called this an uncataloged AFS, located approx. 2 miles SSW of Douglas creek Lagoon. No stream name.

③ Final version: Stream 262-10-10092
No stream name.

① On the preanadssat we called this monument creek 262-10-10080

② On the Anadssat we called this monument creek 262-10-10080 and Clear creek 262-10-10090

③ Final version:
262-10-10080 is clear creek
262-10-10090 has no name

④ These two streams join in a common lagoon

① On the preanadssat we called this Glacier lake creek 262-10-10070

② No Anadssat done on this stream

③ Final version:
Correct name: Monument creek
262-10-10070

ACE 1951209

ADF&G MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS GS OS TS AVS SCHA MMS PTA 2 REGION: PWS KP, CI K, P

METHOD: Aerial Ground Boat

3 DATE: 4-26-90 15 HIGH TIDE TIMES: 1 21 TEAM RECORDER: E. Weiss

4 START TIME: 0828 16 HIGH TIDE HTS: 1 22 OBSERVERS: J. BARNHART

5 STOP TIME: 0920 17 LOW TIDE TIMES: 1000, 23 AGENCY: ADFG

6 SEGMENT #: C00208 18 LOW TIDE HTS: ~5.6 24 PHOTOS TAKEN: Y N
908WU
 Roll #: 002 K Frame: 11-15

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

8 K-UNIT: K0912 Ebb Slack Flood Slack 25 VIDEO TAKEN: Y X TAPES: _____

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: ~ 3 mi. S. of CAPE DOUGLAS AK PENINSULA Sediment _____

14 DESCRIPTION: _____ Biological _____

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 Low-lying Rocks Beach Cove
Lagoon Marsh

34 WAVE EXPOSURE: High Moderate Low

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

36 CATALOGED ANAD. FISH STREAM? Y N
262-10-10090 - No name available

37 CATALOG #: 262-10-10080
Measurement CRK
Clear creek 4-26-90

38 STREAM NAME: Clear Creek

39 OIL IN STREAM BED? Y X

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 1951210 - 15

COMMENTS: SPORADIC STAIN SPLASHES & SPLASHES DRIFT IN STREAM TIDE
DRIFT LINE SPORADIC STAIN SPLASHES ON COBBLE ON BACK BANK
OF STREAM & ON BACK SIDE OF BEACH FRONT SPIT. OIL
ABSENT ROOM SECTION ON BANK OF STREAM IN HIGH TIDE
LINE

RECOMMENDATIONS: NO ANALYSIS NEEDED. Ed Weiss J. Barnhart

State of Alaska
Department of Fish and Game
Habitat Division

Page 1 of 1

Field Inspection Report

Date 6/28/90 Time 1530

Location: (Logging unit/Road/Waterbody) Alaska Peninsula approx 3.5 miles
SSW Douglas Creek Lipson, Clear Creek AFS 262-10-10080 and
unnamed creek 262-10-10090 K09-11 CD-20

Operator/Contractor: Exxon (EVRS)

Individuals present at time of inspection:

<u>Name</u>	<u>Representing</u>
<u>Tommy Tomblin</u>	<u>Exxon</u>
<u>Greg Harold / Kerwin Dreher</u>	<u>USIG</u>
<u>Terry Ellsworth</u>	<u>ADEC</u>
<u>NPS</u>	<u>Don McBee</u>
<u>Jeff Barnhart</u>	<u>ADF+G</u>

Activity/Situation Observed: Oil appeared in the form of CO/CT/ST which
was not recoverable. The mousse located during the SSAT survey was
not located during the cleanup phase. The one meter section of
oiled absorbent boom was not located

Pertinent Statutes/Regulations: _____

Recommended/Required Action (Specify): ADIVL

By (date) _____ (if applicable)

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

Jeff P. Barnhart Fisheries Biologist
Fish and Game Representative/Title

Company Representative/Title

State of Alaska
Department of Fish and Game
Habitat Division

Page 1 of 1

Field Inspection Report

Date 6/28/90 Time 1530

Location: (Logging unit/Road/Waterbody) Alaska Peninsula approx 3.5 miles
SSW Douglas Creek Lagoon, Clear Creek AFS 262-10-10080 and
unnamed Creek 262-10-10090 K09-11 CD-20

Operator/Contractor: Exxon (EVOS)

Individuals present at time of inspection:

<u>Name</u>	<u>Representing</u>
<u>Tommy Tomblin</u>	<u>Exxon</u>
<u>Greg Harold / Kerwin Dreher</u>	<u>USCG</u>
<u>Terry Ellsworth</u>	<u>ADEC</u>
<u>NPS</u>	<u>Don McBee</u>
<u>Jeff Barnhart</u>	<u>ADF+G</u>

Activity/Situation Observed: Oil appeared in the form of oil/silt which
was not recoverable. The mousse located during the SSAT survey was
not located during the cleanup phase. The one meter section of
oiled absorbent boom was not located

Pertinent Statutes/Regulations: _____

Recommended/Required Action (Specify): NONE

By (date) _____ (if applicable)

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

Jeff P. Barnhart Fisheries Biologist
Fish and Game Representative/Title

Company Representative/Title

State of Alaska
Department of Fish and Game
Habitat Division

Page 1 of 1

Field Inspection Report

Date 6/28/90 Time 1530

Location: (Logging unit/Road/Waterbody) Alaska Peninsula approx 3.5 miles
SSW Douglas Creek Lagoon, Clear Creek AFS 262-10-10080 and
unnamed Creek 262-10-10090 K09-11 CD-20

Operator/Contractor: Exxon (EVOS)

Individuals present at time of inspection:

<u>Name</u>	<u>Representing</u>
<u>Tommy Tamplin</u>	<u>Exxon</u>
<u>Greg Harold / Kevin Dreher</u>	<u>USCG</u>
<u>Terly Ellsworth</u>	<u>ADEC</u>
<u>NPS</u>	<u>Don McBee</u>
<u>Jeff Barnhart</u>	<u>ADF+G</u>

Activity/Situation Observed: Oil appeared in the form of oil slicks which
was not recoverable. The mousse located during the SSAT survey was
not located during the cleanup phase. The one meter section of
oiled absorbent boom was not located

Pertinent Statutes/Regulations: _____

Recommended/Required Action (Specify): NONE

By (date) _____ (if applicable)

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

Jeffrey P. Barnhart Fisheries Biologist _____
Fish and Game Representative/Title Company Representative/Title

State of Alaska
Department of Fish and Game
Habitat Division

Page 1 of 1

Field Inspection Report

Date 6/28/90 Time 1530

Location: (Logging unit/Road/Waterbody) Alaska Peninsula approx 3.5 miles
SSW Douglas Creek Lagoon, Clear Creek AFS 264-10-10080 and
Unnamed Creek 264-10-10090 K09-11 CD-20

Operator/Contractor: EXXON (FVOS)

Individuals present at time of inspection:

<u>Name</u>	<u>Representing</u>
<u>Tommy Tomlin</u>	<u>EXXON</u>
<u>Greg Harold / Karen Disher</u>	<u>USCG</u>
<u>Terry Ellsworth</u>	<u>ADEC</u>
<u>NPS</u>	<u>Dan McBee</u>
<u>Jeff Barnhart</u>	<u>ADFG</u>

Activity/Situation Observed: Oil appeared in the form of CO/CT/ST which
was not recoverable. The moose located during the SSAT survey was
not located during the cleanup phase. The one meter section of
oiled absorbent boom was not located.

Pertinent Statutes/Regulations: _____

Recommended/Required Action (Specify): NONE

By (date) _____ (if applicable)

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

Jeff P. Barnhart Fisheries Biologist
Fish and Game Representative/Title

Company Representative/Title

OPERATIONS DAILY REPORT
SQUAD 9 - SEATRADER/HELICOPTER

FROM: T. TOMBLIN
TO: VESSEL COMMAND NETWORK
FAX No: (907) 266-6490

DATE OF WORK

6/28/90

WORK HOURS: START 0700 TO: 1730

WEATHER CONDITIONS:

HIGH 15.9
LOW 2.6

Wind Speed (Knts) 5-10
Time 0709
Time 0108

Wave Height (Ft) 1-2
HIGH 16.9 Time 1954
LOW 0.6 Time 1322

GENERAL CLAR

ROUTE ALLOCATION:

EN ROUTE TO KASHAUK BAY

INCIDENTS	For Day
INCIDENTS	<u>0</u>
INCIDENTS	<u>0</u>
INCIDENTS	<u>0</u>
INCIDENTS	<u>0</u>
INCIDENTS	<u>0</u>

SCHEDULED WORK DAY
HOURS (ex Break) =

Working	<u>9.5</u>
Weather Downtime	
Transit Time	
Mechanical Downtime	
Other: <u>ARCHAEOLOGISTS</u>	<u>2.5</u>

Vessel

<u>12</u>
<u>9.5</u>
<u>2.5</u>

Helo

<u>12</u>
<u>8.5</u>
<u>3</u>

VESSEL

REPRESENTATIVES NAMES
ADEC TERRY ELISWICK
Exxon TOMMY TOMBLIN
USCG KERWIN OBER
OOPS
Other DON MCBEE
NPS

HELICOPTER

REPRESENTATIVES NAMES
ADEC RANDY REED
Exxon FRED B. HARRIS
USCG SCOTT THOMAS
Other SANDY TUCKER, USF
JOHN HALLIDAY

MANPOWER AND BILLETING STATUS (# of People)

EXXON	COOPS	Agency	Other	Beach Wks	Open
Ends	Reps	Reps		Wkg	Beds
<u>16</u>	<u>1</u>	<u>3</u>	<u>1</u>	<u>8</u>	<u>3</u>

Helicopter # of Workers
<u>6</u>

COOPS (includes Service Personnel)

Boat Crews
<u>7</u>
<u>5</u>
<u>12</u>

Post-It™ brand fax transmittal n

To ICD KODJAK
Co. BMI NANCE
Dept. ADMIN
Fax #

Helicopter Tail #'s
<u>509 EH</u>
<u>511 EH</u>
Work Areas
<u>K935 KAR</u>
<u>TOMCARBON</u>
<u>K935 KAR</u>

memo 7671 # of pages 1
From FUSC/OPS
Co. YN3.7E.5.1
Phone # 263-1776
Fax # 263-1776

VESSLS ASSIGNED (# of Vessels)

Total	In	Total	Not	Mech	Weather
Assigned	Transit	Working	Used	Down	Down
<u>1</u>		<u>1</u>			
<u>2</u>		<u>2</u>			
<u>3</u>		<u>3</u>			

VESSLS ASSIGNED:

Vessel Name	Vessel Type	# of Crew
Sea Trader	Berthing	<u>20</u>
<u>KING DAVID</u>	<u>WORK</u>	<u>3</u>
<u>CYCLONE</u>	<u>WORK</u>	<u>2</u>

DATE OF MOVE LOCATION

KASHAUK BAY

DATE OF MOVE 6/28/90

DATE OF LAST CREW CHANGE

6/18/90

SCHEDULED DATE FOR NEXT CREW CHANGE

7/2/90

PORT FOR CREW CHANGE

KODJAK

PORT FOR CREW CHANGE

KODJAK

NAME OF CREW (Assignment)

JEFF BARNHART

ADFG

DATE OF SUPPLIES/STORAGE CAPACITIES:

Expecting ALBERTA TIDE
EARLY AM 7/2/90

NUMBER OILED/DEAD BIRDS FOUND 0 # AINO

NUMBER OILED/DEAD MAMMALS FOUND 0 # AINO

ACE 1951174 +/S

Thurs 6/28/96

6:30 Am drive To ICP work on logistics and
work orders. 7:55 Am Departure From Kodiak
Airport. Fred Byars and myself. TwinStar
N5799H Tedli? Pilot Land Stream ²⁰⁶⁻¹⁰⁻ 10090
2 on SSW Cape Douglas 8:50 Am.
Fred + I went out to vessel. Spoke To Tommy
Tamlin. CAUV and 10^{SE}
crew start 10:40 Am. Stop Lunch 12:45 pm
Most notes for this stream are on the
map which I will have in with my
report.

Kerwin Dreher USCG

Grog Hardt USCG

Telly Ellsworth DEC

Tom Tamlin - Exxon (not present.)

17 bags / 20 pounds² Removed.

8 workers. oil sample # 90JPB002K

8:15 pm Depart Fr clear creek + unnamed creek

10090 + 10080 via helicopter 9:40 pm land

3:30 Done with 206-10-10090 + 10080

no oil Recovered. Boom no longer in lagoon

Depart Fr Kodiak 4:30 pm. ^{Pilot Bob Masby} 125 BN FRA TwinStar

Today was a misuse of Resources and Time.

Both these streams should have been

Z
O
X
X
M
W
..
W
H
R
T
I
N
-
B
Z
C
U

WORK HOURS: START 0800 TO: 1700

00
..
01
00
M
X
X
O
Z

DAILY QUANTITIES

[illegible]

* The date that the Manual/Mechanical portion of the Work Order has been completed and acknowledged. A separate acknowledgement will be made for the Bioremediation portion of the Work Order.

•• 1 Supersack = 45 CF, report in tenths of sack (i.e. 0.1)

NA Not Applicable/Recommended for this segment division
N Recommended but not started
W Started and Working
P4 Percentage complete (used on large work cooper)
C Work complete

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

Fidd copy

RAPIFAX TRANSMITTAL SHEET

TO: Ken Middleton
Anchorage Habitat

DATE: 5/7/90

No. Pages: 10
(including this page)

FROM: E. BAZZUHST
Kodiak Habitat

MESSAGE: clear creek 262-10-10090 ^{→ unnamed} south of Cape Douglas
~~manant creek~~ 262-10-10080, south of Cape Douglas
segment CD 20H
K unit: K9-11 maybe K9-12

Treated with boat crew

ACE 1951176 +/S

JDM

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/K09-11-CD-020 STREAM NO: 262-10-10090 DATE 5/2/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
1B Salmon stream mouth - spawning (7/10 to 8/31)
8AA Sensitive estuary

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

No ecological constraints regarding intertidal biota.

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: Ruth Joan Orr DATE: 5/22/90

Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

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

COMMENTS: Recommend manual pick up of mousse and cleanup debris as indicated on attached sketch map. Contact ADF&G for work window dates.

TAG COMMENTS: _____

TAG APPROVAL DATE: 5/18/90

ADEC ART WEINER Art Weiner

EXXON ANN TATE Ann Tate

NOAA GARY PETRAE Gary Petrae

USCG G.A. BEITER G.A. Beiter

FOSC: [Signature] DATE: MAY 25 1990

ACE 1951177

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: 5/2/90

16 HIGH TIDE TIMES: 1

21 TEAM RECORDER: E. WEISS

4 START TIME: 1434

16 HIGH TIDE HTS: 1

22 OBSERVERS: K. SCHUCK, C. LARSON
D. YOE, K. KRITCHLO

5 STOP TIME: 1525

17 LOW TIDE TIMES: 1550

23 AGENCY: ADFG/EXXON/NAS/WWC

6 SEGMENT #: CD20A

18 LOW TIDE HTS: 1.9

24 PHOTOS TAKEN: Y N

7 STATION #: _____

19 TIDE HT AT SURVEY: _____

Roll #: _____ Frame: _____

8 K-UNIT: K0911

(Ebb) Slack Flood Slack

25 VIDEO TAKEN: Y X TAPE#: _____

9 STAT AREA: _____

20 USCG QUAD: AFOGNAR D-5

Start: _____ End: _____

10 LAT: 58 48 20

11 LONG: 153 22 7

26 SAMPLES TAKEN? Y X Number

12 SOURCE: Map Loran (CATALOG)

Oil _____

13 LOCATION: ~4mi SW OF VABM "SOUTH DOUGLAS"

Sediment _____

14 DESCRIPTION: LEGAL DESCRIPTION S 16S 25W 12

Biological _____

EXTENT OF OIL

Water _____

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

36 CATALOGED ANAD. FISH STREAM? X N

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

37 CATALOG #: 262-10-10080

38 STREAM NAME: CLEAR CREEK

38 STREAM NAME: MONUMENT CREEK

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

39 OIL IN STREAM BED? Y X

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

40 OIL ON STREAM BANKS? X N

32 OILED DEBRIS? X N

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

42 OIL WITHIN 1 MILE OF STREAM? Y N

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

Where: _____

43 ANADROMOUS FISH PRESENT? Y N

34 WAVE EXPOSURE: High Moderate Low

44 ANADROMOUS FISH OBSERVATION

35 SUBSTRATE TYPE: Bedrock _____ Boulder _____ Cobble 60
Gravel 40 Sand _____ Mud/silt _____

Species Aerial Ground

ACE 1951176

COMMENTS: ST/S ON COBBLE BANK SOUTH SIDE OF STREAM
MID TIDE AREA BELOW STORM BERM. WHERE STREAM
COMES FROM LAGOON. ALSO 3' SECTION OF OILED ABSORBENT
BOOM. ST/S ALSO 12M x 1M IN HEAD OF LAGOON.
SOME ST/L IN STORM DRIFT LINE.
RECOMMEND: SOME TYPE OF REMOVAL OF DEBRIS (OILED BOOM FEW FT

Seg ID: CD-20A Subdiv: 262-10-10080 Monument Crk
Survey Date: 5/2/90 262-10-10090 Clear Crk
Comments by: Ken Critchlow

Two streams, Monument (No.) and Clear (So.) creeks, feed into a common lagoon behind a large storm berm and log jam that protect the lagoon from high energy exposure that affects the fronting beach. No oil nor marine organisms was observed on the beach. The left (So.) bank of the stream where it crosses the beach was characterized by a heavy log jam at the base of which oil stain was observed along with some splatter. A sorbent boom stained by oil was found in this location. Some small areas of oiled drift, mousse, patties and stain were observed near the water's edge in the lagoon.

No ecological constraints were apparent.

KR Critchlow

OG CAL LARSON

SKETCH MAP

SEGMENT ST/ K-0912

GMENT STI K-0912 10090 CLEAR CREEK
 STREAM 262-10 10080 MONUMENT CREEK

DATE 5 12 90

CHECKLIST

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

LEGEND

1 Δ

Plt - No Subsurface Oil

2 ▲

Pit - Subsurface Oil . .

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

Splashed Distribution

lll

Cited Vegetation

4

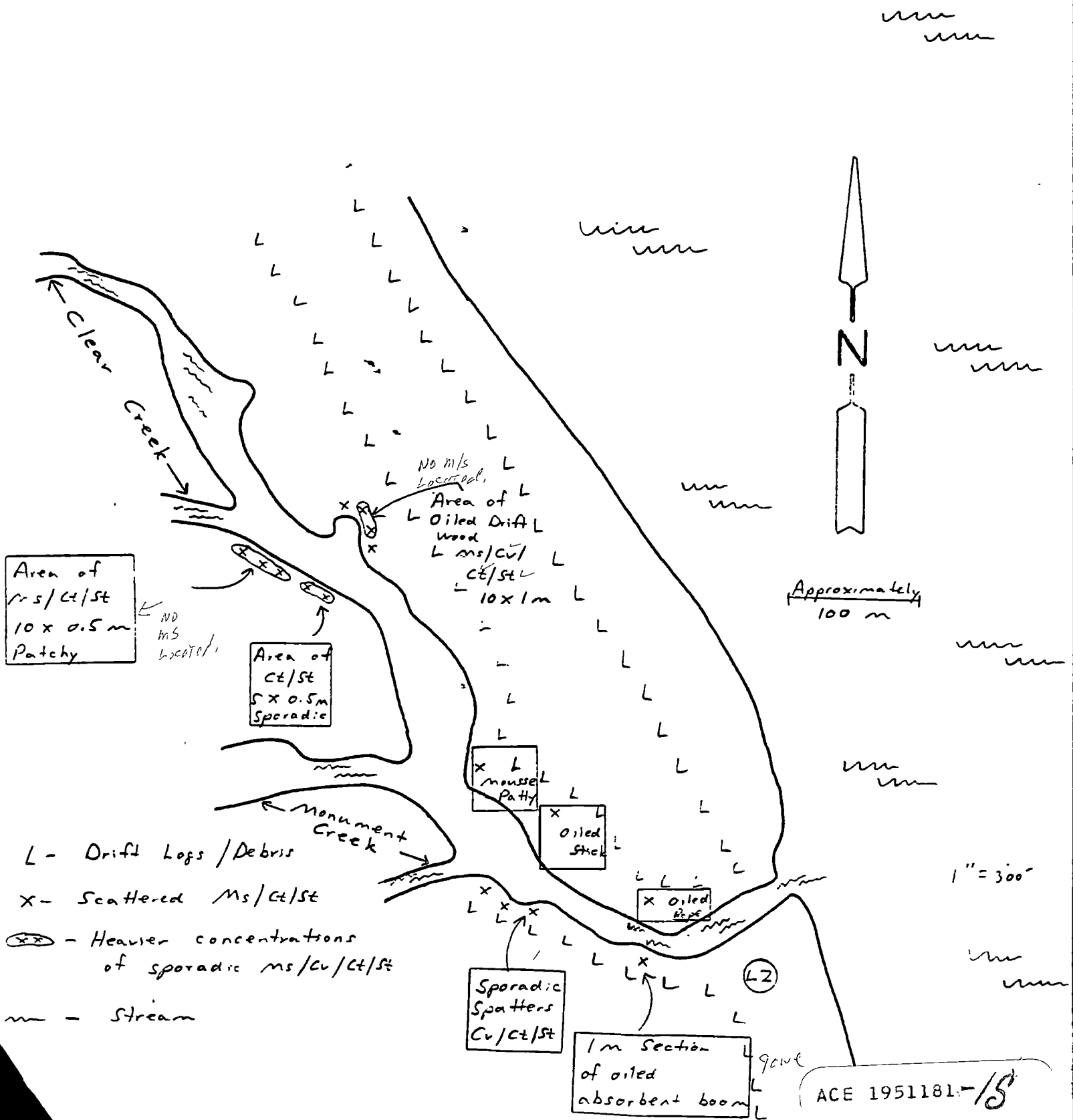
Photo location, direction,
and number

ACE 1951180

Tractor Length (m): AP _____ PO _____ CV _____ CT _____ ST 20 MS _____ PT 5 TB _____ FL _____ NO 875

REVISION:03/24/06

Clear Creek / Monument Creek





① On the preanadssat we called this clear creek 262-10-10090

② On the anadssat we called this an uncataloged AFS, located approx. 2. miles SSW of Douglas creek Lagoon. No stream name.

③ Final version: stream 262-10-10092 No stream name

① On the preanadssat we called this monument creek 262-10-10080

② On the Anadssat we called this monument creek 262-10-10080 and Clear creek 262-10-10090

③ Final version:
262-10-10080 is clear creek
262-10-10090 has no name

④ These two streams join in a common Lagoon

① On the preanadssat we called this Glacier lake creek 262-10-10070

② No Anadssat done on this stream

③ Final version!
correct name: Monument creek
262-10-10070

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

486-6749

RAPIFAX TRANSMITTAL SHEET

TO:

JEFF BARNHART
c/o DEC - KODIAK

DATE:

6/27/90

No. Pages: 1
(including this page)

FROM:

KEN MIDDLETON
ADFG - ANCHORAGE

MESSAGE:

Advised by Exxon-Artek "Sea Trader"
will be at Cape Douglas tomorrow - copter
crew to K6-34 for non-Anad stream
work. Told Exxon to relay message to
you to plan to go to Sea Trader area
tomorrow - this is ^{message} "in case".

Sea Trader at K9-11-C2-020 A

streams: 262-10-10092, 90, 80. They
want to do Douglas Crk. (K9-10-CD-018)
but waiting for FOSC signoff, as we are!

They wanted permits issued here, but
deferred to our "on-site" request. Sea Trader
can juggle to adjacent non-stream units until
you get there. Hope this hasn't zig-zagged
you too much. Hang tough, will be there next
week, probably Monday.

ACE 1951183

9:00 → Beacon

011-872-150-1372

5

209 E H

Tail number

511 : 1-

125 DW 8000th Depot

Twinslan.

1

9:00 → Beacon.

STEVE COWPER, GOVERNOR

RAPIFAX 949-1723

300 RASPBERRY ROAD

ANCHORAGE, ALASKA 99501-1502

Tail number

125DN 8:00 AM Departure

Twinstar.

STATE OF ALASKA

DEPARTMENT OF FISH AND GAME

509 EH

511 EH

RAPIDFAX TRANSMITTAL SHEET

6/23/80

DATE:

No. Pages: 1
(including this page)

JEFF BARNHART

90 DEC - KODIAK

KEN MIDDLETON

ADFC - ANCHORAGE

TO:

FROM:

MESSAGE:

Advised by Exxon-Anc "See Trader"

will be at Cape Douglas tomorrow - Copter
Crew to K-34 for non-anch stream
work. Told Exxon to relay message to
you to plan to go to See Trader over
tomorrow - this is "in case"

See Trader at 14-11-02-050A

streams: 222-10-10025, 20, 80. They
want to do Douglas Crt. (KD-10-CD-018)
but waiting for FOSC sign-off, as we are!
They wanted permits issued here, but
deferred to our "on-site" request. See Trader
can handle to adjacent non-stream units until
you get there. Hope this isn't 3rd-3rded
you too much. Hand back, will be there next
week, probably Monday.

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 6/28/90

EXXON Authorized Representative TOMMY TOMBLIN

Shoreline Segment K09-11-CD020

Anadromous Fish Stream Number(s) 262-10-10080 and
262-10-10090 South of Cape Douglas, Alaska Peninsula

Approved Cleanup Techniques Manual pickup of mousse and
cleanup debris

Approved Cleanup Period 6/28/90 - 7/10/90

Alaska Department of Fish and Game

Jeffrey P. Barnhart
Authorized Officer

[Signature]
Permittee's Signature

ACE 1951184

FIELD SHORELINE COMMENT SHEET

ASAP

K9N-11

Appears to be 242-10-10090 + 10080 gpb.

SEGMENT AS / CD-20 SUBDIVISION: A SITE: 1 DATE 18 Aug 90
AND 0#2

USCG

NAME J. Schultz SIGNATURE Jerry Schultz

☐ YES ☒ NO PRIORITY SITE FOR REASSESSMENT IN 1991
 REASON:

ADEC

NAME F. Bennis SIGNATURE F. Bennis

☐ YES ☒ NO PRIORITY SITE FOR REASSESSMENT IN 1991
 REASON:

No oil observed.

LAND MANAGER

NAME C. Schock SIGNATURE Carl Schock

☐ YES ☒ NO PRIORITY SITE FOR REASSESSMENT IN 1991
 REASON:

No oil observed. No further treatment or assessments are warranted.

EXXON

NAME T. Tomblin SIGNATURE T. Tomblin

☐ YES ☒ NO PRIORITY SITE FOR REASSESSMENT IN 1991
 REASON:

NO OIL OBSERVED

ACE 1951191 +/5

CD-20

SITE #1
(No)

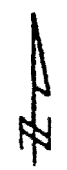
30

11

ACE 1951193

XXX Wide
//// Medium
---- Narrow

K9N-11 CD-20
ADEC Subsegment Length: 0m
METERS



Subdivision Field Map
Map Key: AKPK9N-11CD-20b
Name: D. Fitzgerald

HUB-12-1990 11:32 FROM EXXON--SCHI

TO

KODIAK

P.03

CD-20

Clear

11

ACE 1951194

XXXX
////

Wide
Medium

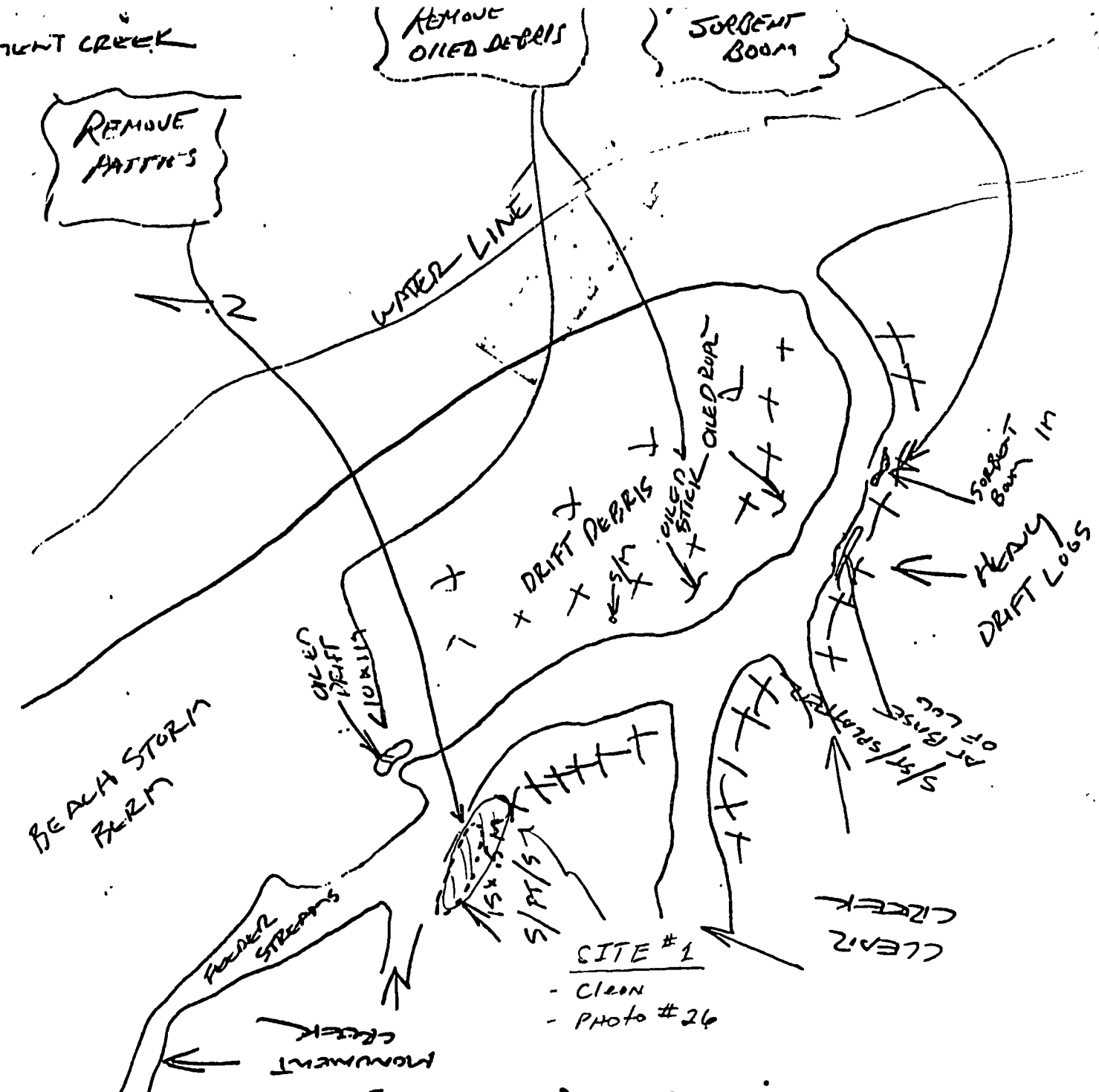
K9N-11 CD-20
ADEC Subsegment Length: 0m
METER

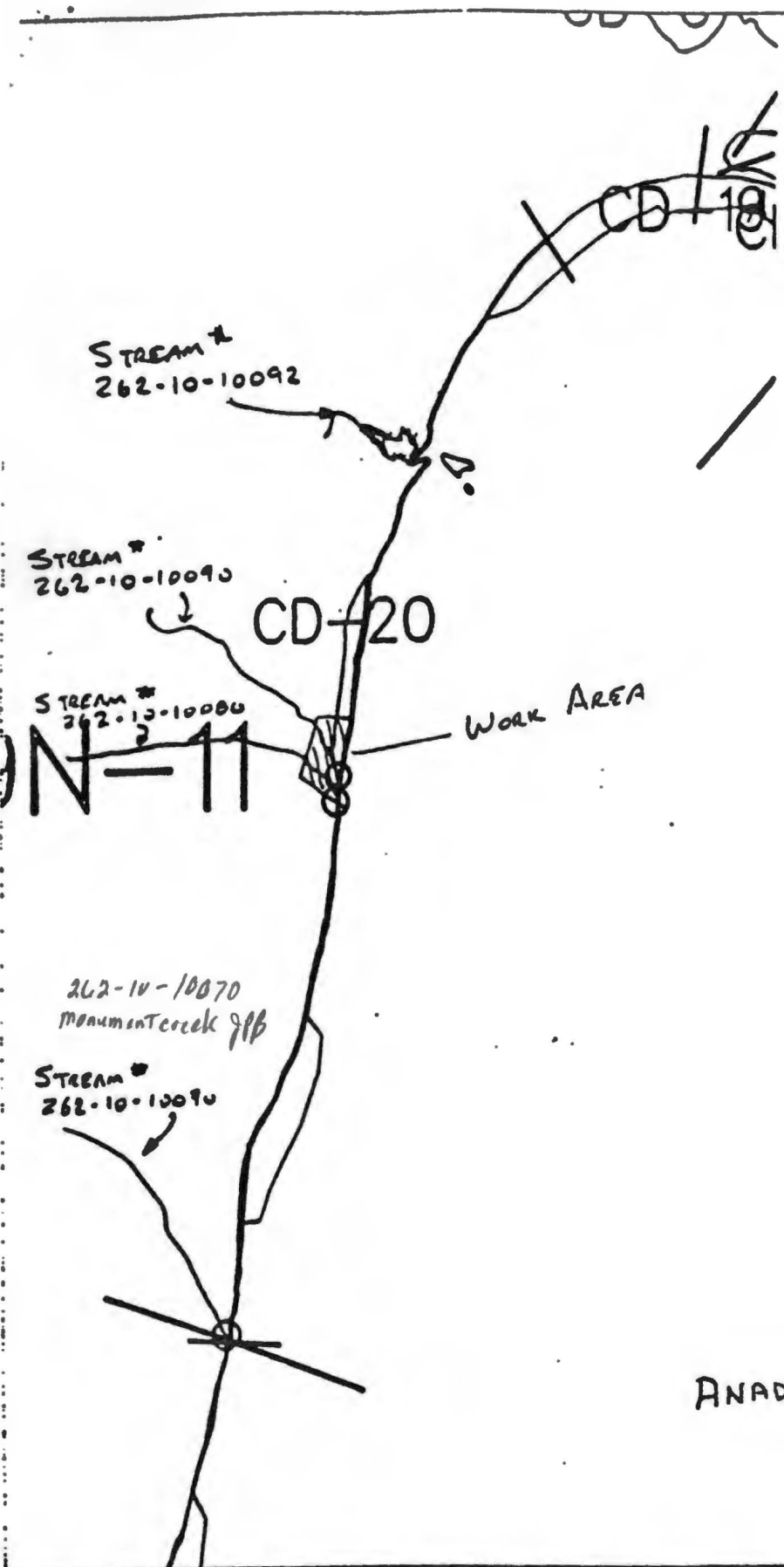
Subdivision Field Map

Map Key: AKPK9N-11CD-20b

Name: 0511194

REVISION:03/24/90





ANADROMOUS Stream Evaluation

ACE 1951196 ^{-IS/FF}

TREATMENT



Exxon Company, USA



ECOLOGY MAP
SEGMENT K9N-11 CD-20
SUBDIVISION A (_ _ . 0 1 _)
METERS

★	Seabird Colony
▲	Active Eagle Nest
△	Inactive Eagle Nest

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

4 START TIME: 1434 16 HIGH TIDE HTS: 1 22 OBSERVERS: K. SCHOCK, C. LARSON

5 STOP TIME: 1525 17 LOW TIDE TIMES: 1550 23 AGENCY: ADFG/EXXON/NAS/WWSC

6 SEGMENT #: CD20A 18 LOW TIDE HTS: 1.9 24 PHOTOS TAKEN: Y N

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

8 K-UNIT: K0911 (Ebb) Slack Flood Slack 25 VIDEO TAKEN: Y X TAPE#: _____

9 STAT AREA: _____ 20 USCG QUAD: AFOGNAK D-5 Start: _____ End: _____

10 LAT: 58 48 20 11 LONG: 153 22 7 26 SAMPLES TAKEN? Y X Number _____

12 SOURCE: Map Loran (CATALOG) Oil _____

13 LOCATION: 24mi SW OF VABM "SOUTH DOUGLAS" Sediment _____

14 DESCRIPTION: LEGAL DESCRIPTION S 16S 25W 12 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? 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 60
Gravel 40 Sand Mud/silt

36 CATALOGED ANAD. FISH STREAM? X N unnamed

37 CATALOG #: 262-10-10090 clear creek

38 STREAM NAME: MONUMENT CREEK 7PB 10-4-90

39 OIL IN STREAM BED? Y X

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 1951120

COMMENTS: ST/S ON COBBLE BANK SOUTH SIDE OF STREAM
MID TIDE AREA BELOW STORM BERM. WHERE STREAM
COMES FROM LAGOON. ALSO 3' SECTION OF OILED ABSORBENT
BOOM. ST/S ALSO 12M X 1M IN HEAD OF LAGOON.
SOME ST/L IN STORM DRIFT LINE.

RECOMMEND: SOME TYPE OF REMOVAL OF DEBRIS (OILED BOOM, FEW PT).
ED Jern

FRAME(S)	DESCRIPTION

46 OIL DISTRIBUTION DIAGRAM

= Sample taken
 = Photo frame # and
 shot direction.

ACE 1951121

ASAP

FIELD SHORELINE COMMENT SHEET

K9N-11 Appears to be 262-10-10090 + 10090 2/18

SEGMENT AS / CO-20 SUBDIVISION: A SITE: 1 DATE 18 Aug 90
Mod #2

SCG

NAME J. Schultz SIGNATURE Jerry Schultz

☐ YES ☒ NO PRIORITY SITE FOR REASSESSMENT IN 1991
REASON:

DEC

NAME F. Bennis SIGNATURE F. Bennis

☐ YES ☒ NO PRIORITY SITE FOR REASSESSMENT IN 1991
REASON:

Very sparse stain observed.

LAND MANAGER

NAME C. Schock SIGNATURE Cal Schock

☐ YES ☒ NO PRIORITY SITE FOR REASSESSMENT IN 1991
REASON:

Oil stain on cobbles remains. No further treatment or assessment is required.

COXON

NAME T. Tomblin SIGNATURE T. Tomblin

☐ YES ☒ NO PRIORITY SITE FOR REASSESSMENT IN 1991
REASON:

NO FURTHER TREATMENT RECOMMENDED

ACE 1951185+1/5

STREAM #
262-10-10092

STREAM #
262-10-10093

STREAM #
262-10-10090

STREAM #
262-10-10091

CD-18

CD-20

CD-20

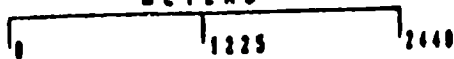
ACE 1951187



Exxon Company, USA
Map Key: NP-CD-20
June 08, 1990



ECOLOGY MAP
SEGMENT K9N-11 CD-20
SUBDIVISION A (J-11-1)
METERS



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

1 inch = 4018 feet

10080 MONUMENT CRE.

CHECKLIST

- ___ N Arrow
- ___ Approx. Scale
- ___ Sep/Tab Entry
- ___ Of Dist.
- ___ Width
- ___ Length
- ___ % Cover
- ___ Substrate Character
- ___ Est. HWA/LWA
- ___ SST
- ___ Profile Location(s)
- ___ Profile(s)
- ___ Pk Location(s)
- ___ Photo Location(s)

LEGEND



PM - The Subsurface CV

FM - Subsurface Oil . .

CTAC

Continuous Distribution

CTA

Broken Distributions

CT/P

Patchy Distribution

CT/3

Splashed Distribution

eee
Old Vegetation

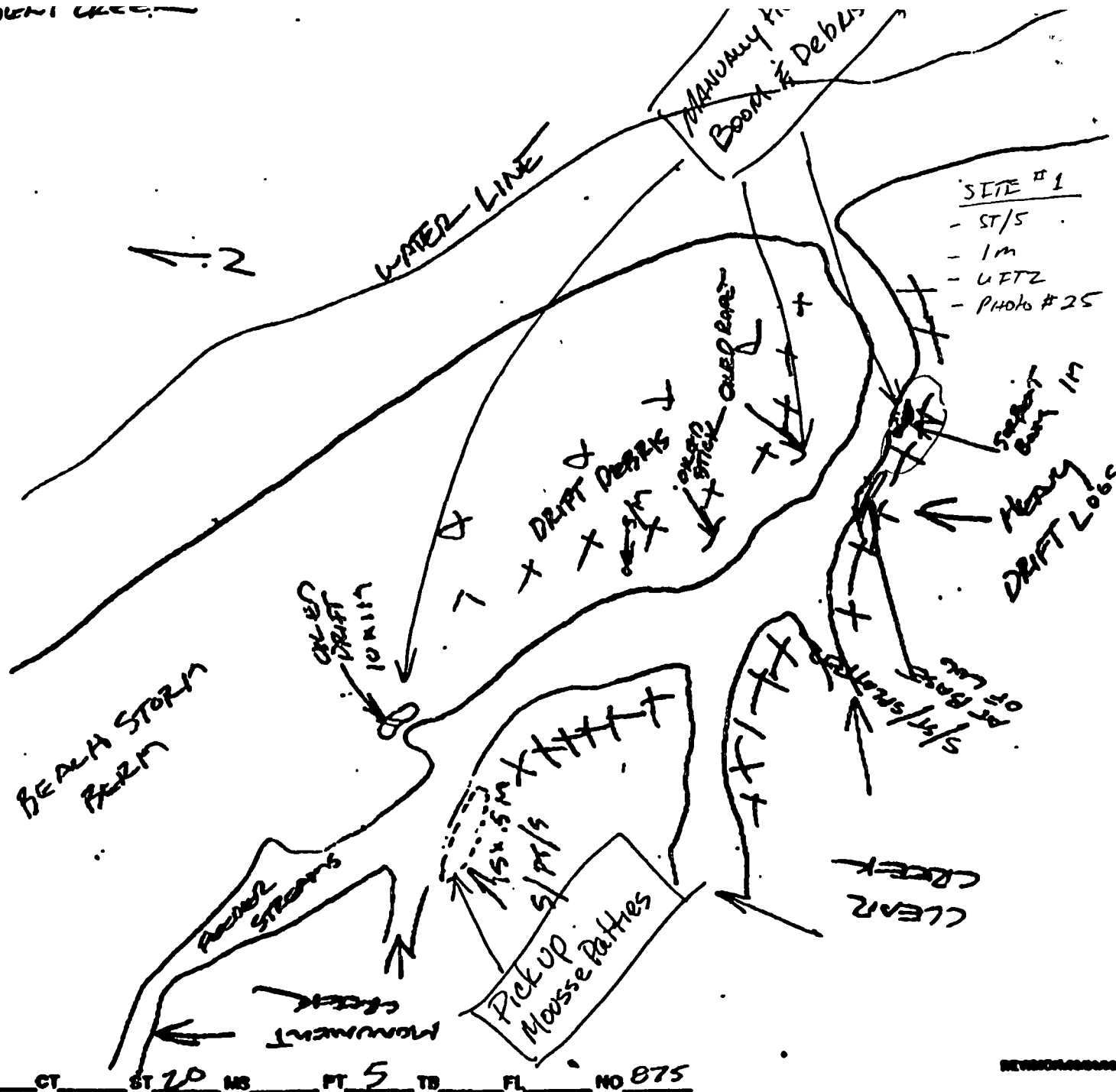
1.

**Photo location, direction,
and number**

ACE 1951188

Oil Character Length (in): AP _____ PO _____ CV _____ CT _____ ST 20 NS _____ PT 5 TB _____ FL _____ NO 875

THE WORKS OF



AUG-19-1990 11:32 FROM EXXON--SCAT

TO

KODIAK

P.03

CD-20

1m

Site #1
(No)

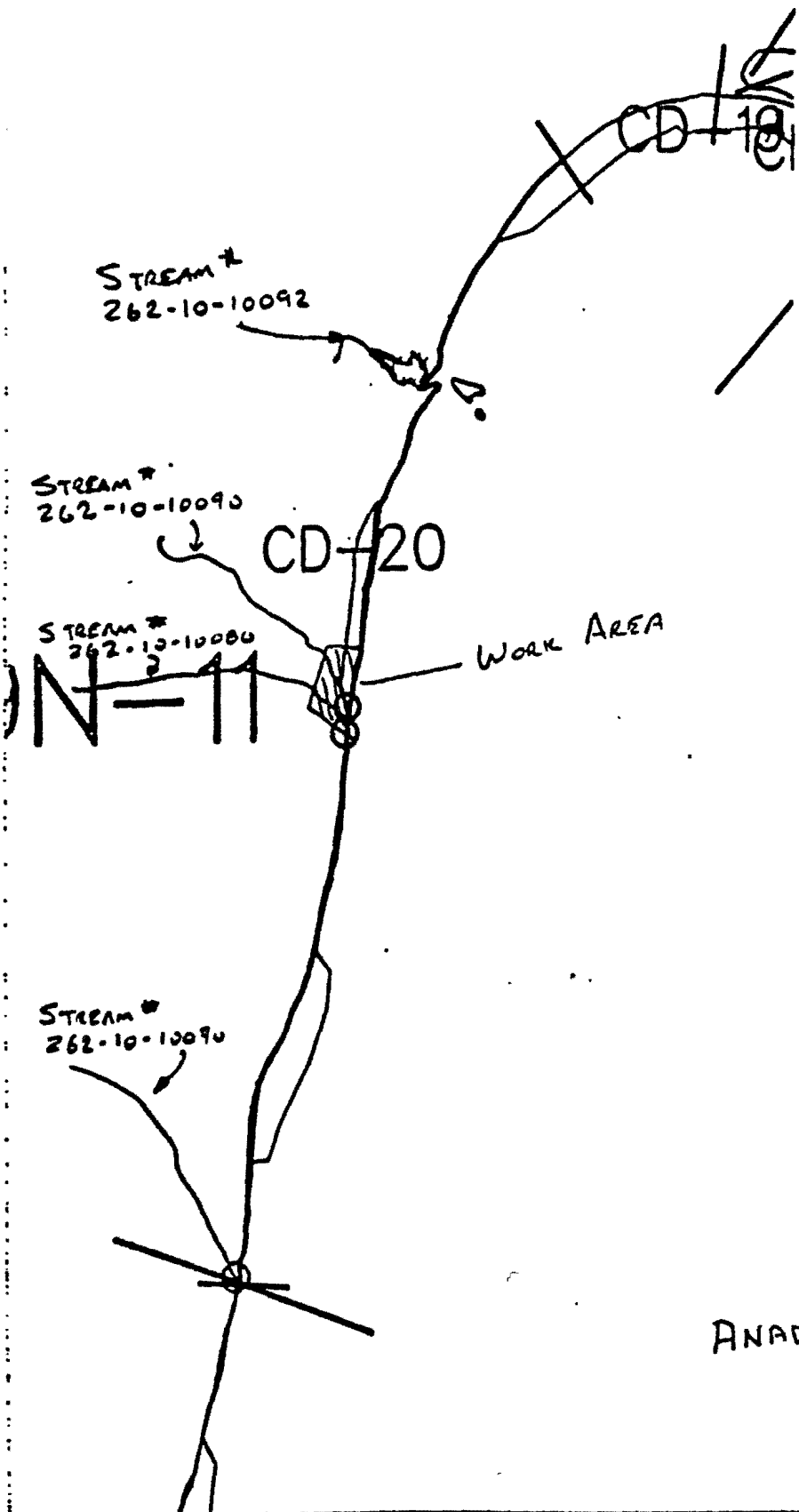
11

ACE 1951189

XXX Wide

K9N-11 CD-20

Subdivision Field Map



ANADROMOUS Stream Evaluation

ACE 1951190 -5

TREATMENT



Exxon Company, USA



ECOLOGY MAP
 SEGMENT K9N-11 CD-20
 SUBDIVISION A (_ _ . 0 1 _ _)
 METERS

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

EVOS CLEANUP MONITORING, 1990.

REGION: Alaska Peninsula

REPRESENTATIVES

K-UNIT: K09-11

EXXON: Tommy Tomblin

SEGMENT: CD-20

USCG: Greg Harold/Kerwin Dreher

LOCATION: Approx 3.5 miles SSW Douglas creek lagoon.

DEC: Terry Ellsworth

STREAM NAME: Clearcreek/unnamed creek

NPS: Don McBoe

ANAD. STREAM CAT. # 262-10-10080/262-10-10090 USFWS: N/A

ANAD. FISH STREAM PERMIT ISSUED: 6/28/90 ADFG: Jeff Barnhart

DATE(S) WORKED: 6/28/90

OTHER:

SQUAD # : 9 Sea Trader

HOURS WORKED: 1.0

SQUAD SIZE: 8

TOTAL MAN HOURS WORKED: 8.0

NUMBER OF BAGS Collected: 0

WORK ORDER ISSUED 5/25/90

POUNDS OF OIL/OILED SEDIMENT REMOVED: 0

TREATMENT TECHNIQUES: MANUAL REMOVAL X BIOREMEDIATION

OTHER

OIL BANDS

DEMOS DATE: 6/28/90

L W m² % oil cover

OIL SAMPLE(S) #: N/A

L W m² % oil cover

OIL TYPE: Sparadic CV/CT/ST

L W m² % oil cover

SUBSTRATE TYPE: Cobble 60

L W m² % oil cover

Gravel 40

L W m² % oil cover

PHOTOLOG

Roll #

FRAME #

DESCRIPTION

N/A

N/A

N/A

PROBLEMS:

OBSERVATIONS: The oil appeared in the form of CV/CE/ST which was not recoverable. The mousse located during the SSAT survey was not located during the cleanup phase. The 1m section of oiled absorbent boom was no longer present on the stream bank.

SIGNED: Jeff Lambert:

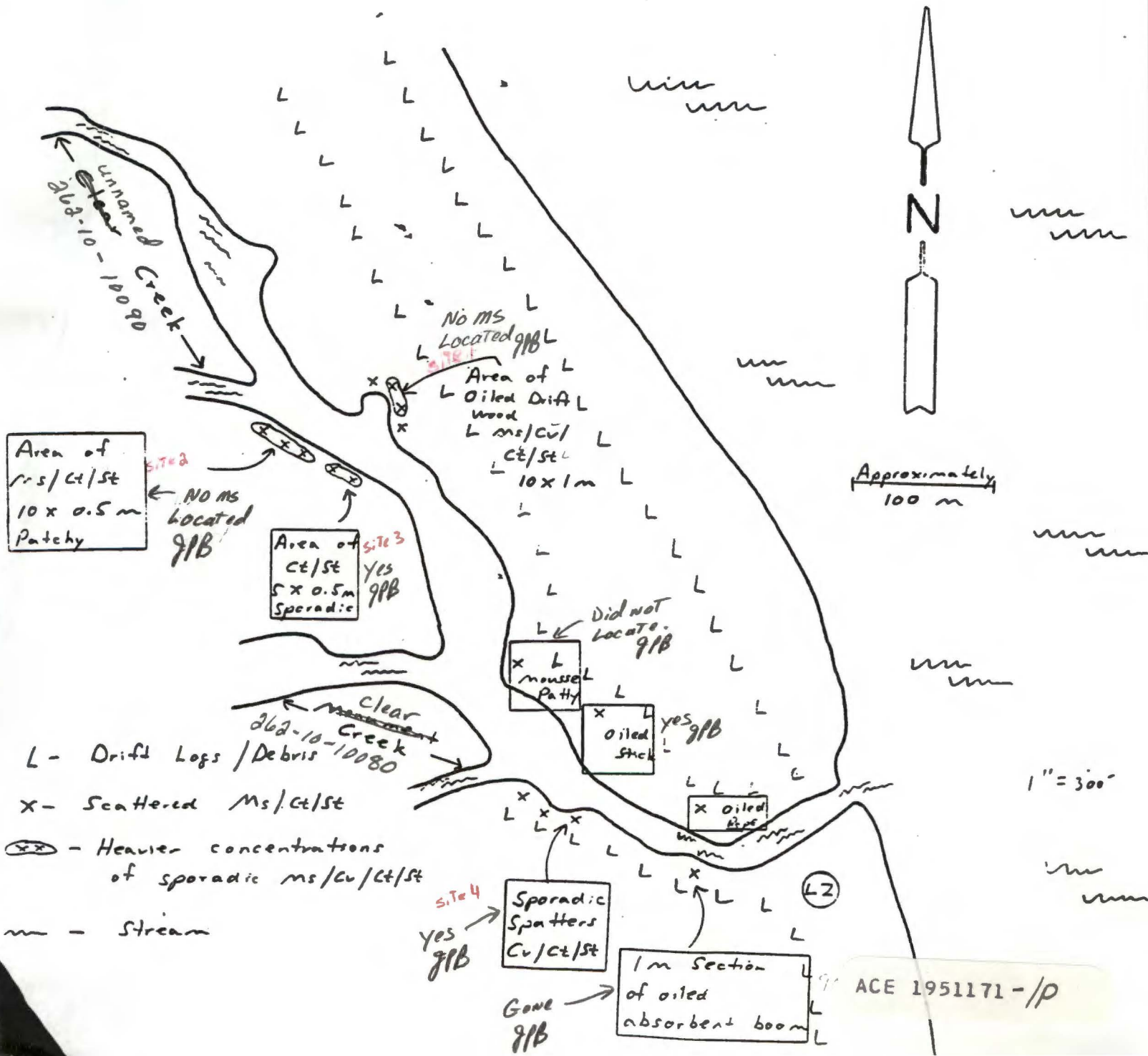
~~Clear Creek /~~

~~Monument Creek~~

NOTES from cleanup 6/28/90.

262-10-10080 clear creek

262-10-10090 unnamed



RECOMMENDS: NO ANALYSIS NEEDED, Edward J. Bumbart

ADF&G MULTI-ASSESSMENT DATA FORM

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

METHOD: Aerial Ground Boat

3 DATE: 4-28-90 15 HIGH TIDE TIMES: 1 21 TEAM RECORDER: E. WEISS

4 START TIME: 0828 16 HIGH TIDE HTS: 1 22 OBSERVERS: J. BARNHART

5 STOP TIME: 0920 17 LOW TIDE TIMES: 1000 23 AGENCY: ADFG

6 SEGMENT #: CD0208 18 LOW TIDE HTS: -5.6 24 PHOTOS TAKEN: Y N
90EWN
Roll #: 002 K Frame: 11-15

7 STATION #: _____ 19 TIDE HT AT SURVEY: _____ 25 VIDEO TAKEN: Y X TAPE#: _____

8 K-UNIT: K0912 Ebb Slack Flood Slack 26 SAMPLES TAKEN? Y X Number
Start: _____ End: _____

9 STAT AREA: _____ 20 USCG QUAD: _____

10 LAT: _____ 11 LONG: _____

12 SOURCE: Map Loran 011 _____

13 LOCATION: ≈ 3 mi. S. of CAPE DOUGLAS, AK 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								

30 OVERALL OIL IMPACT: N VL L M H

31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain

32 OILED DEBRIS? Y N

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

34 WAVE EXPOSURE: High Moderate Low

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

36 CATALOGED ANAD. FISH STREAM? Y N 262-10-10090 - unnamed

37 CATALOG #: 262-10-10080 clear creek

38 STREAM NAME: MONUMENT CREEK clear creek 4-28-90

39 OIL IN STREAM BED? Y X

40 OIL ON STREAM BANKS? X N

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

42 OIL WITHIN 1 MILE OF STREAM? Y N

Where: _____

43 ANADROMOUS FISH PRESENT? Y N

44 ANADROMOUS FISH OBSERVATION
Species Aerial Ground

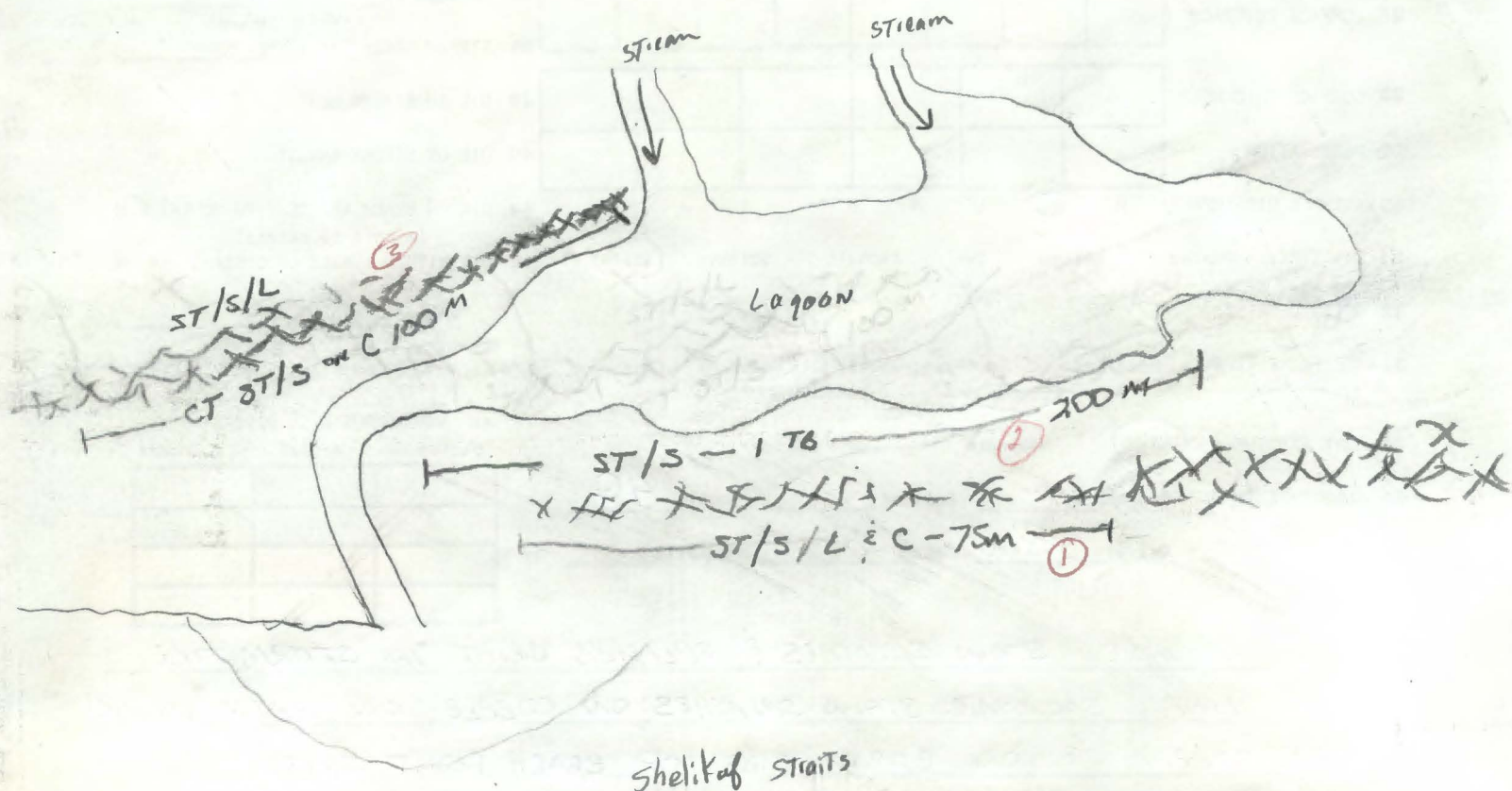
ACE 1951122

COMMENTS: SPORADIC STAIN SPLASHES & SPLASHED DRIFT IN STREAM TIDE
DRIFT LINE. SPORADIC STAIN SPLASHES ON COBBLE ON BACK BANK
OF STREAM & ON BACK SIDE OF BEACH FRONT SPIT. OIL
ABSORBENT BOOM SECTION ON BANK OF STREAM IN HIGH TIDE
LINE

RECOMMENDS: NO ANADSSAT NEEDED. Ed Weiss Jff Barnhart

FRAME(S)	DESCRIPTION
11-13	OIL ABSORBANT BOOM SECTION ON STREAM BANK
14-15	AERIAL OF STREAM MOUTH

46 OIL DISTRIBUTION DIAGRAM



= Sample taken
 = Photo frame # and
 shot direction.

ACE 1951123

190 Prepared

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

ASC NUMBER: *262-10-10080*
 SURVEY TYPE: *PA*
 METHOD: *F*
 DATE: *4-26-90*
 START TIME: *0828*
 STOP TIME: *0920*

TEAM RECORDER: *E. Weiss*
 OBSERVERS: *J. Barnhart*

AGENCY(IES): *ADF+G*

PHOTOS TAKEN? *Y*
 Roll #: *90FW002K* Frames: *1-15*
 VIDEO TAKEN? *N* Tape Number:
 Counter Start:

SAMPLES TAKEN? *N*

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

OILING DATA

	LENGTH	WIDTH	M2	%	THICK	FEN	OIL TYPE
SITE 1	<i>75</i>	<i>N/A</i>	<i>N/A</i>	<i>1</i>	<i>0.1mm</i>	<i>Ø</i>	<i>ST/S/L+C</i>
SITE 2	<i>200</i>	<i>N/A</i>	<i>N/A</i>	<i>1</i>	<i>0.1mm</i>	<i>Ø</i>	<i>ST/C (one Tar ball)</i>
SITE 3	<i>100</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>0.1mm to 1mm</i>	<i>Ø</i>	<i>ST/S/L CT ST/S</i>
SITE 4							
SITE 5							

OVERALL OIL IMPACT: *VL*

OIL IN STREAM CHANNEL? *N*

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

SUBSTRATE

Bedrock	Granule
Boulder	Sand <i>30</i>
Cobble <i>40</i>	Silt
Pebble <i>30</i>	Veget.

SPECIES					
COUNT					

COMMENTS: *Sporadic stain and oil splashed drift in storm tide drift line. Sporadic oil stain on cobbles on back bank of stream and on back side of beach front spit. Absorbent oil boom located on stream bank at high tide line. Recommend no Anadssat*

NOTE: *This stream joins in a common lagoon with the unnamed stream (262-10-10090)*

'90 AS (Anadysat)

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

ASC NUMBER: *262-10-10080*
SURVEY TYPE: *AS*
METHOD: *F*
DATE: *5/2/96*
START TIME: *1434*
STOP TIME: *1525*

TEAM RECORDER: *E. Weiss*
OBSERVERS: *K. Schock, C. Larson, D. Yates, K. Kritchlow*

AGENCY (IES): *ADFG/INPS/Exxon/WWC*

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

SAMPLES TAKEN? *N*

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

OILING DATA

	LENGTH	WIDTH	M2	%	THICK	FEN	OIL TYPE
SITE 1	<i>12</i>	<i>1</i>	<i>12</i>	<i>N/A</i>	<i>0.1 mm</i>	<i>Ø</i>	<i>ST</i>
SITE 2	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>0.1 mm</i>	<i>Ø</i>	<i>ST</i>
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT: *VL*

OIL IN STREAM CHANNEL? *N*

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

SUBSTRATE

Bedrock	Granule
Boulder	Sand
Cobble <i>60</i>	Silt
Pebble <i>40</i>	Veget.

SPECIES

COUNT

COMMENTS: *ST/S on cobble bank south side of stream, mid tide area below storm berm where stream comes from lagoon. Also 3 foot section of oiled absorbent boom. ST/S also 12m x 1m in head of lagoon, some ST/L in storm drift line. Recommend some Type A removal of Debris (oiled boom, few PT)*

NOTE: *This stream joins in a common lagoon with the unnamed stream (262-10-10090)*

'90 cleanup

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

ASC NUMBER: *262-10-10080*
 SURVEY TYPE: *CL*
 METHOD: *F*
 DATE: *6/28/90*
 START TIME: *1440*
 STOP TIME: *1530*

TEAM RECORDER: *JEFF BARNHART*
 OBSERVERS: *Tammy Tomblin, Greg Harold/Kerwin Dreher, Terry Ellsworth, Don McBee*
 AGENCY (IES): *ADFG, Exxon, USCG, ADEC, 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	<i>10</i>	<i>1</i>	<i>10</i>	<i>NA</i>	<i>0.1mm To 4.1cm</i>	<i>Ø</i>	<i>CT, ST, CV</i>
SITE 2	<i>10</i>	<i>.5</i>	<i>.5</i>	<i>NA</i>	<i>0.1mm To 1cm</i>	<i>Ø</i>	<i>CT, ST</i>
SITE 3	<i>5</i>	<i>.5</i>	<i>2.5</i>	<i>NA</i>	<i>0.1mm To 1mm</i>	<i>Ø</i>	<i>CT, ST</i>
SITE 4	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>NA</i>	<i>0.1mm To 4.1cm</i>	<i>Ø</i>	<i>CV, CT, ST</i>
SITE 5							

OVERALL OIL IMPACT: *VL*

OIL IN STREAM CHANNEL? *N*

SUBSTRATE

Bedrock	Granule
Boulder	Sand
Cobble <i>60</i>	Silt
Pebble <i>40</i>	Veget.

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

SPECIES					
COUNT					

COMMENTS: *Oil appeared in the form of CV/CT/ST which was not recoverable. The mouse located during the SSAT survey was not located during the cleanup phase. The one meter section of oiled absorbent boom was no longer present on the stream bank.*

Note: *This stream joins in a common lagoon with the unnamed stream (262-10-10090)*

JDM

ANADROMOUS FISH STREAM EVALUATION

262-10-10080
SEGMENT ST/K09-11-CD-020 STREAM NO: 262-10-10090 DATE 5/2/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
1B Salmon stream mouth - spawning (7/10 to 8/31)
8AA Sensitive estuary

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

No ecological constraints regarding intertidal biota.

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: Rachel Jean Doe DATE: 5/22/90

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 mousse and cleanup debris as indicated on attached sketch map. Contact ADF&G for work window dates.

TAG COMMENTS:

TAG APPROVAL DATE: 5/18/90

ADEC ART WEINER Art Weiner

EXXON AMY TGA Real

NOAA Gary Petree Gary Petree

USCG G.H. REITER G.H. Reiter

FOSC: [Signature] DATE: MAY 25 1990

ACE 1951125+15

KODIAK ECOLOGICAL CONSTRAINTS

- 1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
No disturbance of stream bed or banks unless authorized by ADF&G. No beach flushing into stream drainage. No bioremediation or other chemical application within 100m of stream without authorization from ADF&G. No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, unless authorized by ADF&G. Treatment which is not intrusive and which will not affect nearshore oil or toxicity levels, such as manual removal, can probably proceed without adherence to time constraints. In any case, contact ADF&G prior to treatment for consultation and/or permit application.
AGENCY CONTACT PERSON: ADF&G Ken Middleton 267-2299
- 1C Salmon fry nursery area (4/31 to 7/31)
No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, unless authorized by ADF&G. Treatment which will not affect nearshore oil or toxicity levels, such as manual or mechanical removal, can probably proceed without adherence to time constraints. Contact ADF&G prior to treatment for confirmation and advice.
AGENCY CONTACT PERSON: ADF&G Larry Peltz 424-3214
- 1D Kotol Bay Hatchery release
Pink salmon - late May, early June; Chum salmon - June; Sockeye salmon - early July.
- 1H Remote release site
No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, unless authorized by ADF&G. Treatment which will not affect nearshore oil or toxicity levels, such as manual or mechanical removal, can probably proceed without adherence to time constraints. Contact ADF&G for confirmation and authorization.
AGENCY CONTACT PERSON: ADF&G Larry Peltz 424-3214
- 1I Gill net area
1J Purse seine area
Mainland, West side Kodiak, Shuyak & Moser/Olga Bay (6/9 to 10/1)
East side Kodiak, East side Afognak (7/4 to 10/1)
1K Purse seine hook-off
1L Set net sites
Contact ADF&G for confirmation - dates and locations may vary. Restrict boat and air traffic to essential minimum. When set net sites are present (1L) restrict beach operations to essential minimum as authorized by ADF&G. If plans for treatment include methods such as hot water wash or Inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization.
AGENCY CONTACT PERSON: ADF&G Larry Nicholson 424-4791
- 2M Herring spawning (4/15 to 6/30)
Contact ADF&G for confirmation - dates and locations may vary. Restrict boat traffic to essential minimum. Avoid damage to unopened intertidal and subtidal algae and seagrass. If plans for treatment include methods such as hot water wash or Inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization.
AGENCY CONTACT PERSON: ADF&G Larry Nicholson 486-4791
- 3N, 3P Harbor seal and sea lion pupping (5/10 to 7/1)
3O, 3Q Harbor seal and sea lion molting (8/15 to 9/15)
Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts. No application of Inipol within two weeks of arrival dates (work window at these sites is limited to 7/2 to 7/31)
Contact ADF&G and USFWS prior to treatment for confirmation.
AGENCY CONTACT PERSON: US National Marine Fisheries Service Steve Zimmerman 586-7235
ADF&G Don Calkins 267-2403
- 5R Seabird colony (5/1 to 9/1)
Restrict air and boat traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance from colony. Contact USFWS prior to treatment.
AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
- 5S Shorebird/waterfowl concentration (4/1 to 5/15)
Restrict all activity to essential minimum, especially air traffic. Contact USFWS and ADF&G for confirmation.
AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
ADF&G Tom Rothy 267-2206
- 5T All Bald Eagle nests (3/1 to 6/1)
Active Bald Eagle nests (3/1 to 9/1)
Restrict air traffic and all disturbance to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates
AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
- 6U Recreation: Tent sites (8/1 to 9/15)
6V Anchorages (8/1 to 9/15)
6W Forest Service cabins (8/1 to 9/15)
6X Lodge (8/1 to 9/15)
6Y Special use destination
- 7Z Subsistence area: Salmon harvesting (6/1 to 9/30)
7HH Finfish harvesting
7I Deer harvesting (8/1 to 1/7)
7JJ Invertebrate harvesting
7KK Bear harvesting (4/1 to 5/15 and 10/25 to 11/30)
Contact ADF&G and appropriate Native Corporation for specific dates, locations, and constraints. Restrict boat and air traffic and beach disturbance to essential minimum. If plans for treatment include methods such as hot water wash or application of Inipol which might affect intertidal or nearshore oil or toxicity levels, contact ADF&G and appropriate Native Corporation for authorization - see Native Corporation Contact List for each Native Corporation's contact person.
AGENCY CONTACT PERSON: ADF&G Jim Fall 267-2350

ACE 1951126

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / CD-20 A SUBDIVISION: 262-10-10080 DATE 02 MAY 90
262-10-10090

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

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED
COMMENTS

Type A manual removal.

~~ADEC~~ → ADF&C
NAME Edward W. Weiss SIGNATURE Edward W. Weiss

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED
COMMENTS

SUGGEST REMOVAL OF OILY DEBRIS (BOOM, ETC) AND
SMALL BAND OF PATIES.

~~LAND MANAGER~~ **NPS**
NAME Carl Schesh SIGNATURE Carl Schesh

~~☐ NO TREATMENT RECOMMENDED~~ ~~☐ TREATMENT SUGGESTED~~
COMMENTS

This lagoon/estuary system is very protected and any
oil and oiled debris can be expected to persist for
a long time. A cleanup crew should be sent in to remove
oiled drift, rope, sorbent boom and band of patchy mousse.

SHORELINE OILING SUMMARY (ANAO)

REVISION NO. 04/11

OG CAL LARSEN USCG DREHER, CWE SEGMENT ST/ 60912 KAF50
 BIO KEN CRITCHLOW LAND REP CAL SCHACH STREAM 202-10 * (1) OF 1
 EXXON DARL YVES ADFG NO WIFE TIME 02:20 103 30 * 100900
 TEAM NO. 14 TIDE LEVEL +1.9 FT DATE 5/2/90 * 10080000
 EST. SUBDIVISION LENGTH: 900 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow CL200
 UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R 0 % B 0 % C 30 % P 30 % G 30 % S 10 % M 0 % V 0
 SLOPE: Long 0 % Hang 0 % Vert 0 % WAVE EXPOSURE: ☐ Low ☐ Med ☒ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 25 m NO 875

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR						IMPACTED ZONES			
	R	B	P	S	SW	W	BL	BR	BU	BY	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

PATTIES / TARBALLS 0 BAG

NEAR SHORE SHEEN? NO BR RW SL TL

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

Did you collect DEBRIS
☒ YES ☐ NO
 TYPE 0
 #BAGS 0

Photographs:

Roll No. 0

Frames 0

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL	BELOW		OIL / FILM COLOR						PIT ZONE				A N A	SHEEN (Y/N)	T	SURFACE SUBSURFACE SEDIMENT
		OP	OR	OL	OF	NO		US	UG	SW	W	BL	BR	BU	BY	SU	U	M	U				

COMMENTS NO PITS DUG DUE TO LACK OF OIL PENETRATION.

ACE 1951128

REVIEWED 7W DATE 5/4/90

Keywords: child sexual abuse; disclosure; social support

ASC 262-10-10070

ADFG MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: 05 05 05 TS AVE SCN HNS PTA 2 REGION: PWS KP, CI K. 05

METHOD: Aerial Ground Boat

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

4 START TIME: 1434 16 HIGH TIDE HTS: 1 22 OBSERVERS: K. SCHOCK, C. LARSEN

5 STOP TIME: 1525 17 LOW TIDE TIMES: 1550 23 AGENCY: ADFG/EXXON/NAS/WA

6 SEGMENT #: C020A 18 LOW TIDE HTS: 1.9 24 PHOTOS TAKEN: Y N

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

8 K-UNIT: K0911 05 Slack Flood Slack 25 VIDEO TAKEN: Y X TAPE: _____

9 STAT AREA: _____ 20 USCG QUAD: AFOGNAK D-5 Starts: _____ Ends: _____

10 LAT: 38 48 20 11 LONG: 153 22 7 26 SAMPLES TAKEN Y X Number _____

12 SOURCE: Map Loren CATALOG Oil _____

13 LOCATION: 24mi SW OF VABM "SOUTH DOUGLAS" Sediment _____

14 DESCRIPTION: LEGAL DESCRIPTION S 16S 25W12 Biological _____

Water _____

EXTENT OF OIL

27 SURFACE COVERAGE

SHORELINE				STREAM			
L	V	H	S	L	V	H	S

28 SURFACE THICKNESSES

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

29 PENETRATION

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

30 OVERALL OIL IMPACT: N 05 L H H

31 OIL TYPE: Pooled Housse Tar Asphalt Sticky Slain

32 OILED DEBRIS? X N

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

34 WAVE EXPOSURE: High Moderate Low

35 SUBSTRATE TYPE: Bedrock _____ Boulder _____ Cobble 60

Gravel 40 Sand _____ Mud/silt _____

36 CATALOGED ANAD. FISH STREAM X N
262-10-10090

37 CATALOG #: 262-10-10080

38 STREAM NAME: CLEAR CREEK

39 OIL IN STREAM BED? Y X

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 1951130

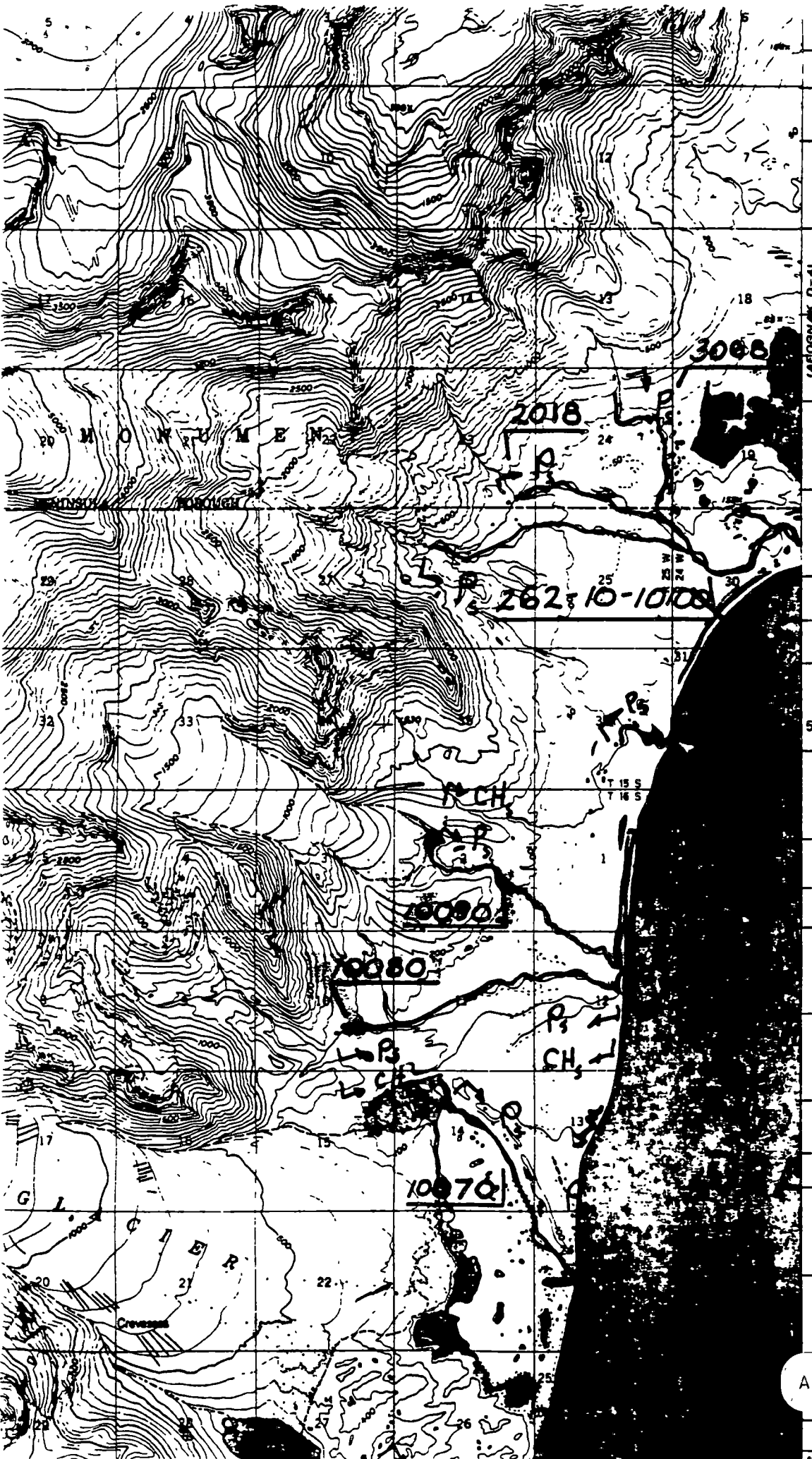
COMMENTS: ST/S ON COBBLE BANK SOUTH SIDE OF STREAM
MID TIDE AREA BELOW STORM BERM. WHERE STREAM
COMES FROM LAGOON. ALSO 3' SECTION OF OILED ABSORBENT
BOOM. ST/S ALSO 12M x 1M IN HEAD OF LAGOON.
SOME ST/L IN STORM DRIFT LINE.

Seg ID: CD-20A Subdiv: 262-10-10080 Monument C
Survey Date: 5/2/90 262-10-10090 Clear Ck
Comments by: Ken Critchlow

Two streams, Monument (No.) and Clear (So.) creek feed into a common lagoon behind a large storm berm and log jam that protect the lagoon from high energy exposure that affects the fronting beach. No oil nor marine organisms was observed on the beach. The left (So.) bank of the stream where it crosses the beach was characterized by a heavy log jam at the base of which oil stain was observed along with some splatter. A sorbent boom stained by oil was found in this location. Some small areas of oiled drift, mousse, patties and stain were observed near the water's edge in the lagoon.

No ecological constraints were apparent.

KR Critchlow



K9N-11
CD 20

USGS Map
AF06NAK (D-5)

RECEIVED
8/6/89

SEGMENT INSPECTION RECORD

ADEC # K9-11

Shoreline Segment: CD-18 & other areas in subunit

Shoreline Treatment Process(es) Completed for this Segment

Yards Signed Off

☐

Hot water wash

☐

Mechanical

☐

Warm water wash

☒

Non-mechanical

☐

Water deluge

☐

Other

Exxon

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

Exxon Comments

Signature

Date 8/6/89

Time 1715

Printed Name

Gayle Cannon

Existing Shoreline Condition As
Visually Determined by USCG

Surface Oil

Percent	Degree of Oiling
0%	Heavy
25%	Medium
50%	Light
100%	Very Light

100%

Subsurface Oil

☒ Yes ☒ No

Comment Below

Reassessment

☒

Yes - Necessary - CD 20

☒

No - Not necessary unless re-oiled CD 18, CD 19

ADEC Rep

Comments

Existing Shoreline Condition As
Visually Determined by ADEC

Surface Oil

Percent	Degree of Oiling
0%	Heavy
25%	Medium
50%	Light
100%	Very Light

100%

Subsurface Oil

☐ Yes ☒ No

Comment Below

Reassessment

☒

Yes - Necessary

☐

No - Not necessary unless re-oiled

Signature

Printed Name

FOSC Rep

Comments

Demobilization approved/disapproved

Signature

Date

Time

Printed Name

Copy: Exxon ADEC FOSC ISCC

Return All Signed Originals to Exxon

ACE 1951133 +/S

AIRCRAFT MONITOR CAPE DOUGLAS AND GULL PT. 05NOV89

CAPE DOUGLAS:

FLEW OUT TO CAPE DOUGLAS ON AN ERA 212 HELO 0830 WITH MR. GEORGE NAUGHTON AND MS SANDRA FOEZTAS OF THE ARTHUR D. LITTLE CO. OUT OF BOSTON. THEY ARE ON CONTRACT TO EXXON TO CONDUCT WEATHERED OIL STUDIES FOR THE SPILL. THEY WILL BE TAKING SAMPLES FROM REPRESENTATIVE SITES IN ALL OF THE ICP AREAS.

THE HELO LANDED ON THE NORTH TIP OF CAPE DOUGLAS. LOOKED AT AN AREA OF COBBLED TO LARGE ROCKS APPROXIMATELY 300 YRDS LONG. THE EASTERN END OF THE TIP ABOUT 150 YRDS WAS MAINLY COVERED WITH LARGE ROCKS THAT WERE COVERED WITH A THIN LAYER OF MOUSSE IN A BAND FROM THE LOW WATER LINE 30 TO 40 YRDS WIDE. THE MOUSSE AND OIL WERE ALSO BETWEEN THE ROCKS, IN THE PEBBLE/SAND SUBSTRATE. IT DID NOT SEEM TO BE WEATHERING SIGNIFICANTLY. THERE WERE ALSO INTERMITTENT POCKETS OF OILED ROCKS DOWN THE REST OF THE SHORELINE IN A BAND OF APPROXIMATELY 5 YRDS WIDE 30 TO 40 YRDS FROM THE LWL. THE OIL ON THESE ROCKS APPEARED TO BE WEATHERING AND MAY BE DISSIPATED THIS WINTER. THIS SITE SHOULD BE MONITORED AS POSSIBLE THIS WINTER AND MAY BE A CANDIDATE FOR TREATMENT THIS SPRING. PICTURES WILL BE FORWARDED BY MAIL. LEFT THE SITE AT 1110.

GULL PT.:

LANDED AT GULL PT. IN THE COVE AREA WERE TREATMENT OPERATION OCCURRED THIS SUMMER. LOOKED AT A SHORELINE AREA APPROXIMATELY 250 YRDS LONG AND 70 YRDS WIDE. THE WEST END AND MIDDLE OF THE COVE WERE MAINLY MADE UP OF A SAND, PEBBLE AND COBBLE STRUCTURE. THE AREA WAS COVERED INTERMITTENTLY WITH PATCHES OF TAR/MOUSSE AND OIL STAINED COBBLE FROM THE LWL 30 YRDS WIDE. EAST END OF THE COVE CONSISTED OF ROCKY SHORELINE. THE ROCKS HAD TAR /MOUSSE ON THE SURFACE AND IN BETWEEN IN THE SANDY, PEBBLE SUBSTRATE. OVERALL THE OIL DID NOT LOOK AS IF IT HAD BEEN AFFECTED BY THE TIDES TO A GREAT EXTENT. THE COVE AREA PROVIDES SHELTER FROM THE WEATHER AND DOES NOT LOOK LIKE A HIGH ENERGY AREA. THIS SITE SHOULD BE MONITORED AS POSSIBLE THIS WINTER AND MAY BE A CANDIDATE FOR TREATMENT NEXT SPRING. PICTURES WILL BE FORWARDED BY MAIL TO ICP KODIAK AND FOSC.

OVERFLIGHT:

THE OVERFLIGHT WENT FROM HOMER TO CAPE DOUGLAS, FROM CAPE DOUGLAS TO GULL PT. AND FROM GULL PT. THERE WAS NO OIL OR SHEEN SITED.

12 Aug 1989

~~Inspect Segment 5D 18 and CD 19 Fume Areas
in CD 12 that were moderately impacted. Type A
clean up in both segments complete and satisfactory.
CD 15 should be evaluated for Type B cleaning.
A low level of impact is appropriate for this area.
Impacts are all large rock high energy
impacts. Segment 5D 19 is substantial winter snow
conditions.~~

CD 20 was inspected and impact 1000m x 1.5m
Bank of the debris, the debris and house was not removed.
Accordingly segment CD 20 is not acceptable at
this time.

DPE COMMENTS

Very light, splashing of oil. spotted not consistent,

RECEIVED
8/4/89

TYPE A SHORELINE CLEANUP WORK ORDER

Date 8/04/89 Shoreline Segment CD-18, CD-19, CD-20

Location (see map)

Cape Douglas

ADEC No. K9-11

Shoreline assessment date 7/06/89

Recommended Cleanup Activities

CD-18 Manual removal of mousse deposits on the sand bar (beach) in front of the lagoon and tidal (mud) flat. CD-19 Manual removal of weathered (asphaltic) mousse. Removal of tar covered debris (seaweed and grass). CD-20 Use hands/manual removal of small oiled drift debris. Allow wave action and natural weathering to remove light and very light oiling (high wave energy beaches).

Priority Considerations

CD-18 Class 5-A Do not enter tidal flats due to ecological constraints.

CD-19 Class 4-A

CD-20 Class 4-A

Ecological Constraints

CD-18 Clean beach as quickly as possible to avoid disturbing brown bears in area. Stay completely out of lagoon area. CD-19 None CD-20 During manual cleanup along stream bank behind spit avoid dune plants that have been oiled, since there have not been adversely affected by presence of oil.

Archaeological Constraints (from site survey)

If any archaeological or historical sites or artifacts are discovered during the clean up activity, they must remain undisturbed and the Exxon archaeologist Jim Haggarty contacted (486-5680) (take action prescribed in the "Guideline for Shoreline Cleanup" dated 4/21/89 as amended) .

Submitted by: Jack A. Rickner Date 8-4-89

Approved: [Signature] Be. D. Jackson Date 8-4-89

Federal On-Scene Coordinator Representative J. H. Haggarty

ACE 1951136

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 7/23/89

SHORELINE SEGMENT K9-11-CD-20

LOCATION: (see enclosed map) Beach adjacent and south of

Cape Lisianski

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 7/24/89

Recommended Cleanup Activity(ies):

- Use ~~hands~~/manual removal of small oiled drift debris.
- Allow wave action and natural weathering to remove light and very light oiling (high wave energy beaches).

Priorities/Considerations: Class 4-A

Ecological Constraints (from site survey):

- During manual cleanup along stream bank behind spit avoid dune plants that have been oiled, since there have not been adversely affected by presence of oil.

Archaeological Constraints (from site survey):

- If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon's Archaeological Field Director and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

Augusta Regier
State Historic Preservation Officer *

Date: 8-2-89

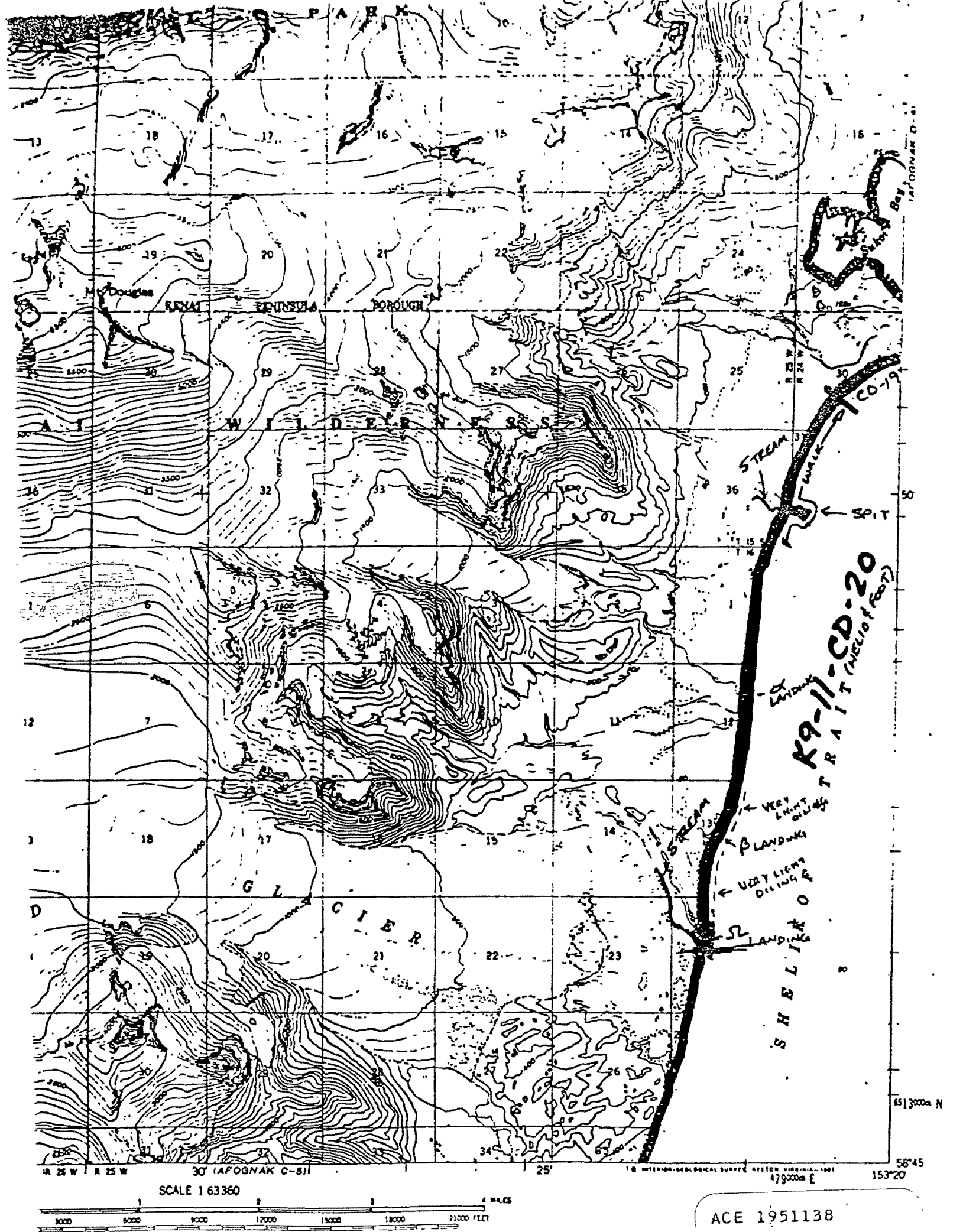
EXXON: _____

Date: _____

FOSC: _____

Date: _____

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



ersion July 05, 1989)

SHORELINE OIL EVALUATION

te: 24 July '89 / Time: 1:46
rveyed From: Foot/Boat/Helicopter/Plane

Observer: Bryan Tramm
Weather: Sun Cloud/Rain/Snow/Fog

CATION

ocation: SEA - ADJACENT - COAST - LAKE TO DO - LAG Segment ID: K9-11-CD-20
gment Length: 7650 m. Access: Vehicle/Boat/Barge/Helicopter/Plane
cess Restrictions:

ORELINE

oreline Type: SPI/BEA/COV/HLD/STRT Slope: Lo/Med/Hi/Vert
ve Exposure: High/Med/Low
diment: B 5 / C 5 / P 60 / G&S 25 / M / R 5

g. Degree of Oiling: HEAVY / MODERATE / LIGHT / VERY LIGHT / NONE OBSERVED
ea of Impact: SU/SP/H/M/L

L DISTRIBUTION

ntinuous % of Segment 30
oradic % of Segment 30

SU/SP/H/M/L
SU/SP/H/M/L

H/M/L/VL
H/M/L/VL

tal	Length(m)	Width(m)	Thickness >1cm:	cm	SU/SP/H/M/L
ry light:	<u>4000</u>	<u>1</u>	Penetration/Rework:	<u>10</u> cm	SU/SP/H/M/L
ght:	<u>500</u>	<u>1</u>	Burial Depth:	cm	SU/SP/H/M/L
derate:					
avy:					

bilization Potential: High/Medium/Low
ift Debris Oiled? Y/N Amount: H/M/L/VL SU/SP/H/M/L Type: Logs

L MORPHOLOGY

iled Oil:	%	SU/SP/H/M/L
ree" Oil: <td>%</td> <td>SU/SP/H/M/L</td>	%	SU/SP/H/M/L
attered:	<u>100</u> %	<u>H/M/L/VL</u> SU/SP/H/M/L
ited:	%	<u>H/M/L/VL</u> SU/SP/H/M/L
icakes/Balls:	%	SU/SP/H/M/L

Preliminary Cleanup Est.

Total TYPE A: 4000 m
Total TYPE B: 0 m
Total TYPE A/B: 0 m

WEATHERING

ash:	%	SU/SP/H/M/L
isse:	<u>15</u> %	<u>SU/SP/H/M/L</u>
athered Mousse:	<u>50</u> %	<u>SU/SP/H/M/L</u>
halt Mousse:	%	SU/SP/H/M/L
si:	<u>5</u> %	SU/SP/H/M/L

MENTS

VERY LIGHT SPLATTER IN HIGH INTERTIDAL & SPLASH ZONE; NORTH OF SPIT. SPIT HAS LIGHT SPLATTER IN BOULDER BEACHES (NORTH & SOUTH SHORES). VERY LIGHT SPLATTER PERSISTS 200M SOUTH OF SPIT - THEN NO OIL OBSERVED. 1700 METERS OF BEACH HAS NO OILING. THE SOUTHERN BOUNDARY OF THE SEGMENT IS THE STREAM OUTLET IN FRONT OF FOUR PEARL GLACIER. VERY LIGHT TO LIGHT OILING IN SPLASH & INTERTIDAL ZONES EXTENDS FROM STREAM MOUTH NORTH FOR 1700M. THIS OILING IS CONTINUOUS. THE FRESH (CHOCOLATE) MOUSSE IS PROBABLY JUST WEATHERED MOUSSE MELTING. NOTE: FRESH MOUSSE UP TO 1CM THICK BETWEEN BOULDER & CRACKS ON SPIT. STREAM MOUTH OF SPIT HAS A BAND OF OILING UP TO 70CM WIDE ON BANK (SPLASH ZONE) 200M UPSTREAM. SOME GRASS IS OILED. NOTE: PLANTS HAVE GROWN UP THE OIL ZONE WITH NO ADVERSE EFFECTS

ACE 1951139

DOCUMENTATION:

Map Aerial photo marking segment boundaries see attached

VTR: Y/N Tape Number(s) K05-13

Photography: Y/N Roll Number(s) 211-21

Sample Numbers Collected: N/A

K9-11-0020

24 July

MONDAY

11022 CLEAN SK/F 8-rod
MAG WAVE

Recommended -

NO ACTION - ONLY 12-2cm
CHOC MOUSSE @ α . NO OBSERVED
ON LANDINGS OR DEPLT.

1006 Lt Col ADO - REFUEL

1023 Δ ADQ $\downarrow$

1055 1. Q → CAPE DOUGLAS

1146 | K9-11-CD-20

Sunny

ITA-1000

Знаменитые люди в Восточной Европе

~ Sound of H₁ - M20 Wave Freq.

LOG DRIFT SP/SUPRA/HITE

Beautiful!!

V.L.T SPLAT HITZ/SP CHO
Mo-95C 72-0-15

"MELT-NG" INTO WATER TO FORM AQUEOUS

1000 5000 10000 20000 30000 40000 50000 60000 70000 80000 90000 100000

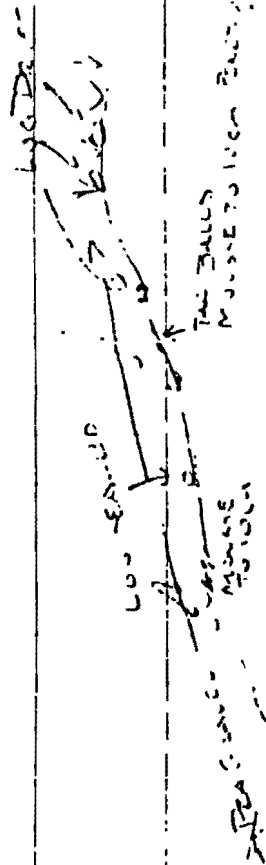
LEVEL

24 July

X SEC 00:20

Monday

LITZ | M.TZ | HITZ | SPLAS. SUPER



CMS

ACE 1951142

24 July 89

Monday

HITZ/SP LINE HAS 2m ZONE IMPACT
V.LT SPLAT WEATHERED MOUSSE/TAR/CHOC MOUSSE
M/HITZ LINE - 1m IMPACT ZONE
V.LT SPLAT WEATHERED MOUSSE/TAR/CHOC MOUSSE

FATTIES MELTS - LOOKS LIKE DE PRESS OIL

SOUTH SIDE SPT -

LIGHT SPLATTERS 5-6m WIDE IMPACT ZONE
HITZ/SP Boulder/C/P RUBBLE
WEATHERED MOUSSE ON Boulders w/
2cm THICK CHOC MOUSSE INTER-
Boulders

NORTH SIDE SPT

3m WIDE IMPACT ZONE LT/ULT SPLAT
HITZ/SP ON Boulders WEATHERED MOUSSE
Occasional CHOC MOUSSE BETWEEN Boulders
GRASS BLANK (GLOD) TO WEATHERED MOUSSE

EAST END SPT (T.O)

FLAT & BEDROCK VLT (WEAT-SP MOUSSE) SPLAT

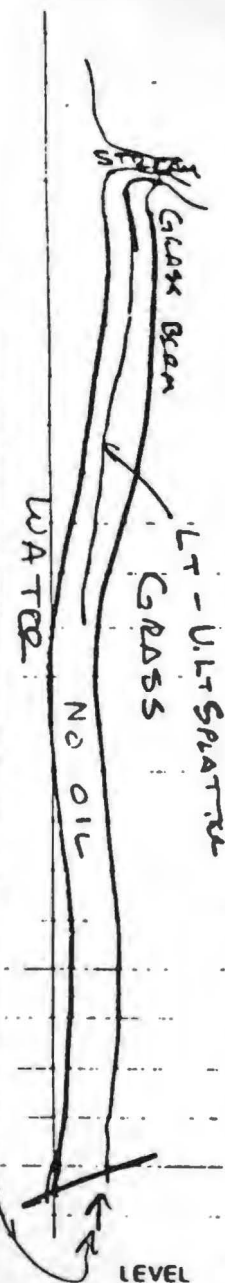
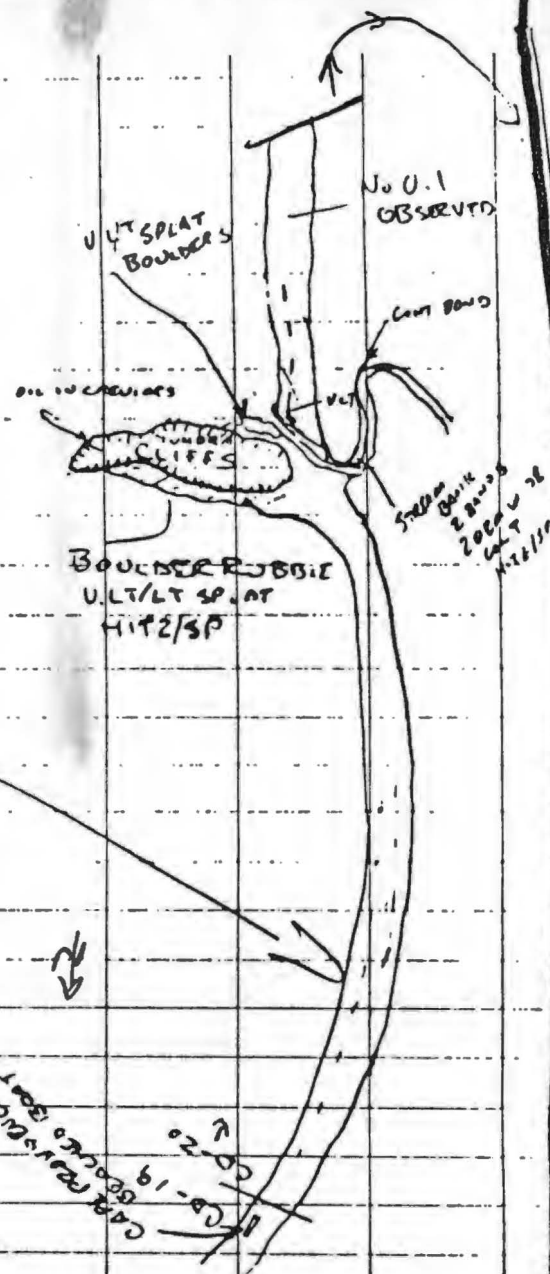
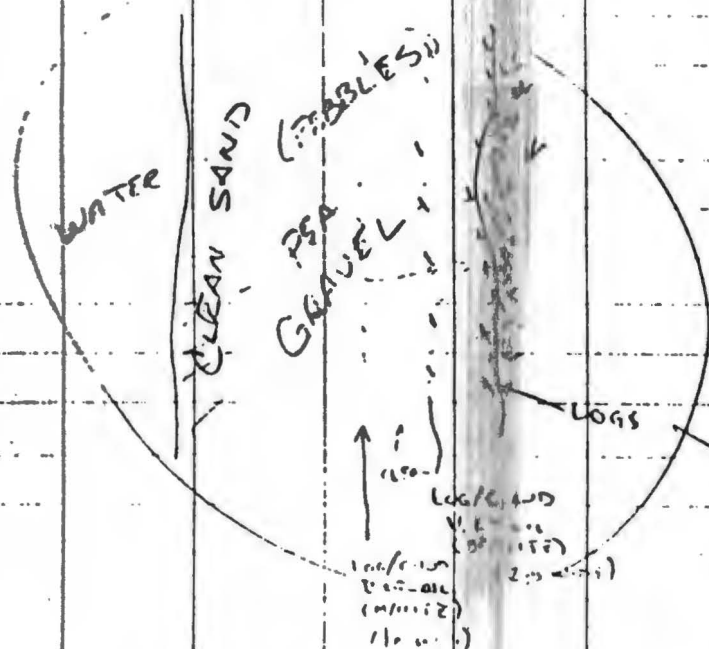
LEVEL

ACE 1951143

24 July

IDEAL... VINE VIEW

MONDAY



ACE 1951144

ACE 1951145

Monitor 1

20 JUL 54

1400-1401

STREAM C/P 1000

2000 (CONTINUED)

1000-1001 AT 4 TE 50

1000-1001 (CONTINUED)

BACK 1000 BACK FROM BEACH. NO

POSS OF WAY TO REVERSE - ENCA

IN COBALT/FLUORIDE (THERM BEACH)

DIC HAS CROSS BEELS INCORPORATED

1415 END WALK - STAR - HOPESHIP

1417 X - BY 2nd STREAM - NO DL

OBSERVED

1424 P/V LT/LT SPAT HITZ/50

C/P BEACH CONTINGUOUS B/R C/RENOV

TO 2.5 cm

1432 SL STREAM - SAME AS B

1443 - (LACK OTHER STREAM LU FOR CD 2)

END K9-11-CD20

2

ACE 1951146

ECOLOGICAL EVALUATION

LOCATION: CAPE DOUGLAS SITE: _____ OBSERVER: A. McCORMICK
 LOCATION PREFIX: CB SEG. NO.: 20 LENGTH: 7650 (M)
 DATE: 7/24/89 TIME (HMM): 1145 TIDE HT.: +1.0 (M)
 OILED ZONE: Splash High Medium Low
 SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud

LIVE BIOTA

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

Present on spit boulders only.

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

can occur at south end of segment only.

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

Present on spit area only.

~~Littorina~~

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

Present on spit area only.

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

OTHER OBSERVATIONS: Chironomus, Nereis, Spidomus, Mya, Dungeness
crab carapaces (Chlorodiadema, Callinectes), Oregon Toad (all on beach area) On spit area:
Halosaccus, Serpula, Margerita, Nucella, Neptunes.

CLEANUP PRECAUTIONS: Stay away from dune plants when manually cleaning oil
debris along the stream bank just inside the spit.

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

BIRDS: _____

GENERAL OBSERVATIONS: Light to very light mousse and asphalt splatter on debris (beach)
and pebbles/cobbles; a few tar balls seen. Oil is confined to upper ITZ to about 50
deep. On spit area: splatter occurs in splash zone on bedrock outcroppings. Stream channel
behind spit has oil along channel in upper ITZ into dune plants.

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 24-JULY-1989 Location AFOGNAK D-5 Site K9-11

Location Prefix CD- Segment # 20 Length 7650

Survey Method:

Air ~80% (A - indicate on map) Boat — (A - indicate on map)

Ground ~20% (G - indicate on map)

Known cultural resources (AHRS #) NONE Data Source AHRS

Oil conditions/beach visibility OIL IS LIGHT W/ LOCALIZED AREAS OF MODERATE OIL. VISIBILITY IS GOOD IN WALKED AREAS

Width of beach zone surveyed 0-50 m Tree fringe surveyed 0-40 m

Cultural resources observed in beach zone (AHRS code) SHP

Cultural resources observed in tree fringe (AHRS code) ROCK CAIRN

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

Shore Profile LOW TO MODERATE ANGLE PEBBLE/SAND/CORAL BEACH

Fresh Water Sources TWO SALMON STREAMS W/ SMALLER STREAMS AS WELL

Sea Exposure EXPOSED EAST FACING COAST

Access/Safety ACCESS BY BOAT IS SAFE DURING CALM SEAS

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

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

Photos: Color Roll # — Frames —

B/W Roll # — Frames —

Observer(s) J. ERLANDSON

Time survey started 11:46 Time survey ended 2:30

Cultural resource considerations/restraints:

STANDARD CONSTRAINTS: LOW SENSITIVITY AREA FOR ARCHAEOLOGICAL SITES IN OR ADJACENT TO INTERTIDAL ZONE.

ACE 1951148

(version 6/04/89)

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Block (see enclosed map): K9-11

Includes Shoreline Segments: CD-18, CD-19, CD-20

Location: Cape Douglas

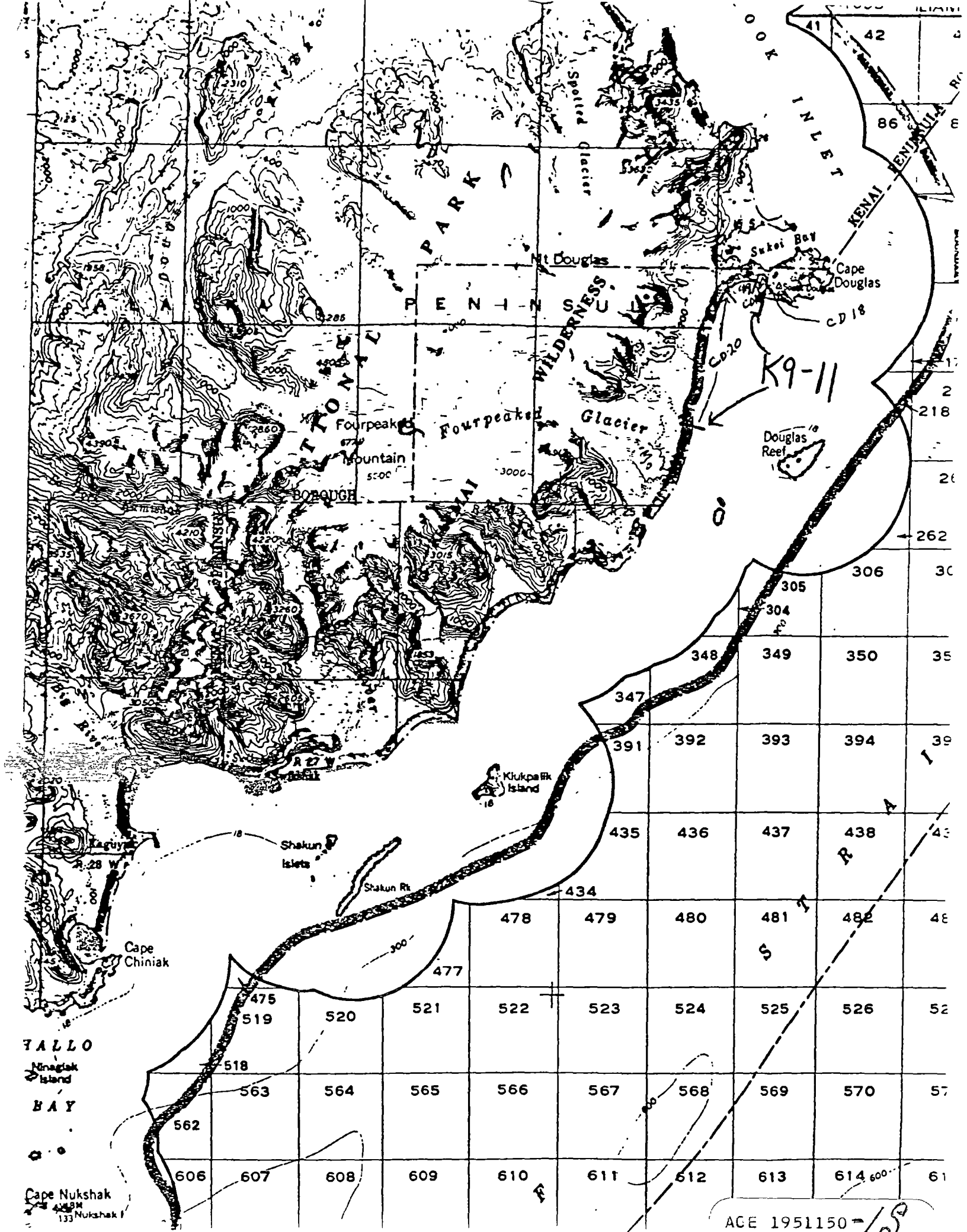
Submitted: _____ Date: _____
(for Exxon)

FOSC Approval: _____ Date: _____

The cleanup procedures identified in the Shoreline Cleanup Program are recommended. Exxon and other field personnel are encouraged to suggest innovations and productivity enhancements to the OSC's on-scene representative. Requirements for safety and the protection of cultural material must be observed.

CC: KISCC

ACE 1951149



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: 10
(including this page)

FROM: J. BARNHART
Kodiak Habitat

MESSAGE: clear creek ~~262-10-10090~~, south of Cape Douglas
~~manomet creek~~ → 262-10-10080, south of Cape Douglas
segment CD 20A

ACE 1951151+/S

FIELD SHORELINE COMMENT SHEET

SEGMENT ST 1 CD-20 A SUBDIVISION: 262-10-10080 - Monument Crk. DATE 02 MAY 90
262-10-10090 - Clear Crk.

USCG

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

☐ NO TREATMENT RECOMMENDED

☒ TREATMENT SUGGESTED

COMMENTS

Type A manual removal.

~~ADEC~~ → ADFdG

NAME Edward W. Weiss SIGNATURE Edward W. Weiss

☐ NO TREATMENT RECOMMENDED

☒ TREATMENT SUGGESTED

COMMENTS

SUGGEST REMOVAL OF OILY DEBRIS (BOOM, ETC) AND SMALL BAND OF PATCHES.

~~LAND MANAGER~~ → NPS

NAME Carl Schoch SIGNATURE Carl Schoch

☐ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

COMMENTS

This lagoon/estuary system is very protected and any oil and oiled debris can be expected to persist for a long time. A cleanup crew should be sent in to remove oiled drift, rope, sorbent boom and band of patchy mousse.

ACE 1951152

ANAD
SSAT DATA ENTRY FORM

PAGE 1 OF 2

GENERAL DATA

262-10
100804
SEG ID: CD-20A SUBDIV: 10290 TEAM: 14 SURVEY DATE: 5/2/90
PAVEMENT: CHAR — AREA — THICKNESS — TARBALLS —
OILED: LGS — VEG — TRH — DBR — WAVE EXP: LW — MD — HG X
FAX RCVD: — DT: — AGENCY DISAGREE: —
EST SUBDIV LGTH: 900 OIL CATEGORY: W — M — N — VL 25 NO 875U —

SURFACE DATA

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

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

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

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

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

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

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

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

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

No Pits Dug

ANAD

SSAT DATA ENTRY FORM

SUBSURFACE DATA

PAGE 2 OF 2

SEGMENT ID: CD-20A SUBDIV: 262-10,
100804
10090

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 1951154

SHORELINE OILING SUMMARY (ANAD)

REVISION NO. 04/12/90

OG CAL. LARSON USCG DREHER, CWE SEGMENT ST/ 160912 XA50
 BIO KEN CRITCHLOW LAND REP CARL SCHACH STREAM 262-10 * (OF)
 EXXON DARLYL YOE ADFG ED WESS TIME 02:20 to 03:30
 TEAM NO. 14 TIDE LEVEL +1.9 FT DATE 5/2/90 *10090 CLEAR
 EST. SUBDIVISION LENGTH: 900 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow CRACKS
 UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R % B % C 30 % P 30 % G 30 % S 10 % M % V %
 SLOPE: Lang % Hang % Vert % WAVE EXPOSURE: ☐ Low ☐ Med ☒ High
 OIL CATEGORY LENGTH: W m M m N m VL 25 m NO 875 m

SURFACE OIL

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

PAVEMENT H F S sq. m by cmPATTIES / TARBALLS 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-CLB)	BELOW		OIL / FILM COLOR						PIT ZONE				A N A	SHEEN (Y/N)	⚠	SURFACE - SUBSURFACE SEDIMENTS	
		OP	OR	OL	OF	NO		UO	UC	SB BR	DBL RW	GY SL	DRD TL	LRP	SU	U	M	U						
							.																	
							.																	
							.																	
							.																	
							.																	
							.																	
							.																	
							.																	

COMMENTS NO PITS DUG DUE TO LACK OF OIL PENETRATION.

REVIEWED DATE

AGE 1951155

OG CALLARSON

SKETCH MAP

SEGMENT ST/ K-0912

STREAM: 262-10

10090 CLEAR CREEK

10080 MONUMENT CREEK

DATE 5 12 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 ▲

Plt - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

Splashed Distribution

eee

Oiled Vegetation

1. Photo location, direction,
and number

ACE 1951156

Oil Character Length (m): AP _____ PO _____ CV _____ CT _____ ST 20 MS _____ PT 5 TB _____ FL _____ NO 875

REVISION:03/24/00

OPERATIONS FIELD NOTES

See Back for Instructions

SEGMENT ID ANAD CO-20A
 STREAM ID # 262-10-10070
 ANNOTATED MAP INCLUDED YIN

DATE 5-2-90
 NAME DARRIN YOST
 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)?	NONE FOUND

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
	Mousse Tarballs	Oiled Veget	Cleanup Debris	Length	Width		Y/N	Estimate
"Pocket" #1			✓	(3' SOLVENT BOIL)		1	✓	2
"Pocket" #2	✓			15	0.5	<1	✓	1
"Pocket" #3								
Random/Continuous								

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

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

GENERAL Snow covering 0 % of the Supratidal Zone?
 Wave Exposure H/M/L Access Limitations: VERY DIFFICULT FOR BOAT - HELD OK
 Snare Boom/Pom Poms Recommended? NO
 Would the production Craft have to be relocated to complete work on this subdivision? YIN, # of Times 2

COMMENTS:
 WORK IN THIS STREAM AREA REQUIRES ADE #6 AND NPS
 PRESENT. WORK SHOULD BE PLANNED FOR PERIOD 5-15 → 7-10.
 SURVEYED THESE STREAMS IN NOV OF 262-10-10070 AT
 REQUEST OF ADE #6. SURVEY NOT REQD ON 262-10-10070

OG CALLARSON

SEGMENT ST K-0912

STREAM 262-10

10090 CLEAR CREEK

10080 MONUMENT CREEK

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

eee

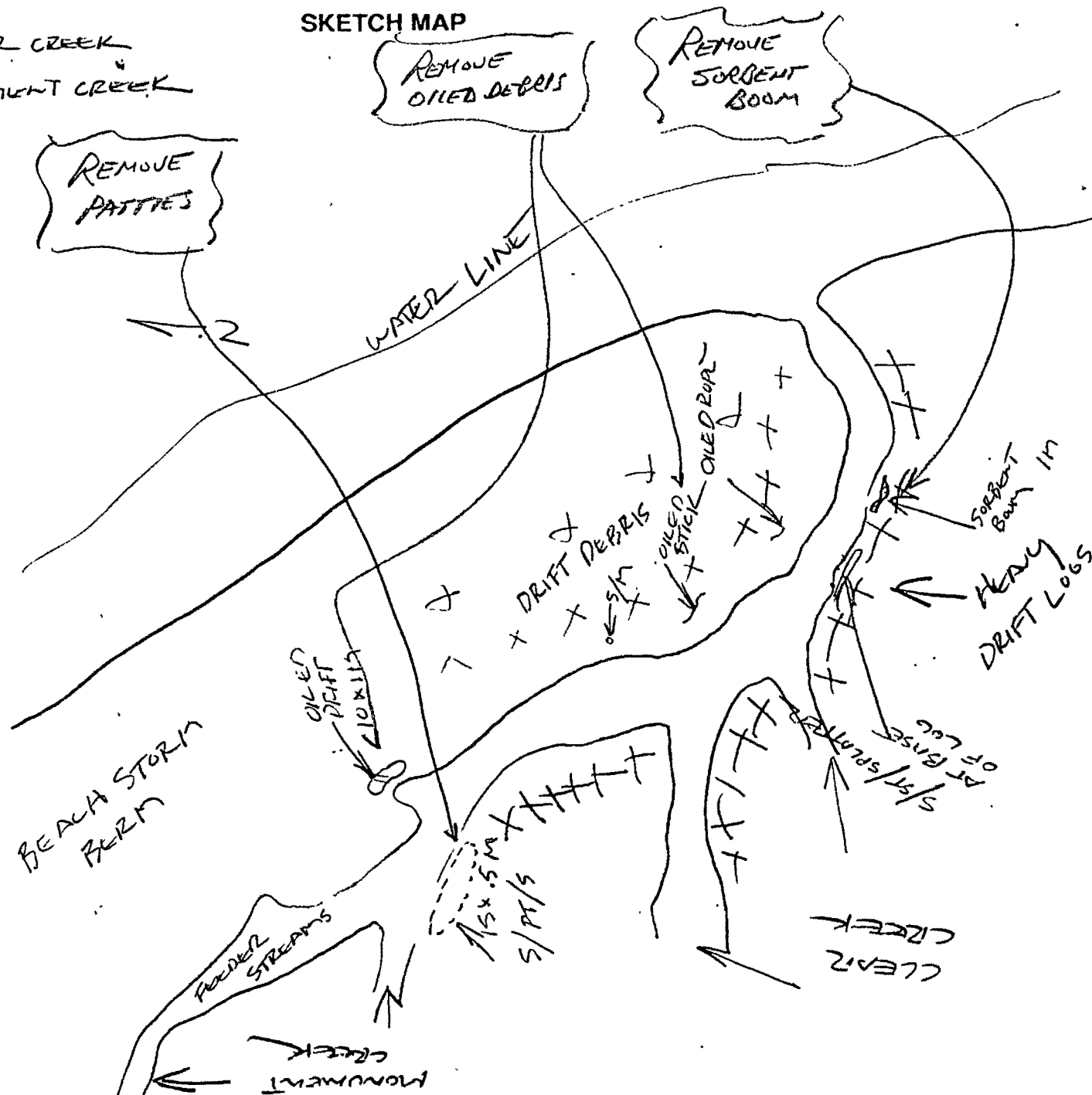
Oiled Vegetation

1 ➔

Photo location, direction, and number

ACE 1951158

SKETCH MAP



Oil Character Length (m): AP _____ PO _____ CV _____ CT _____ ST 20 MS _____ PT 5 TB _____ FL _____ NO 875

REVISION:03/24/90

Seg ID: CD-20A Subdiv: 262-10-10080 Monument Ck
Survey Date: 5/2/90 262-10-10090 Clear Ck
Comments by: Ken Critchlow

Two streams, Monument (No.) and Clear (So.) creeks, feed into a common lagoon behind a large storm berm and log jam that protect the lagoon from high energy exposure that affects the fronting beach. No oil nor marine organisms was observed on the beach. The left (So.) bank of the stream where it crosses the beach was characterized by a heavy log jam at the base of which oil stain was observed along with some splatter. A sorbent boom stained by oil was found in this location. Some small areas of oiled drift, mousse, patties and stain were observed near the water's edge in the lagoon.

No ecological constraints were apparent.

KR Critchlow

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: 5/2/90

16 HIGH TIDE TIMES: 1

21 TEAM RECORDER: E. WEISS

4 START TIME: 1434

16 HIGH TIDE HTS: 1

22 OBSERVERS: K. SCHOCK, C. LARSON
D. YOE, K. KRITHLON

5 STOP TIME: 1525

17 LOW TIDE TIMES: 1550

23 AGENCY: ADFG/EXXON/NAS/WWC

6 SEGMENT #: CD20A

18 LOW TIDE HTS: 1.9

24 PHOTOS TAKEN: Y N

7 STATION #: _____

19 TIDE HT AT SURVEY: _____

Roll #: _____ Frame: _____

8 K-UNIT: K0911

Ebb Slack Flood Slack

25 VIDEO TAKEN: Y X TAPE#: _____

9 STAT AREA: _____

20 USCG QUAD: AFOGNAR D-5

Start: _____ End: _____

10 LAT: 58 48 20

11 LONG: 153 22 7

26 SAMPLES TAKEN? Y X Number _____

12 SOURCE: Map Loran CATALOG

Oil _____

13 LOCATION: ~4mi SW OF VABM "SOUTH DOUGLAS"

Sediment _____

14 DESCRIPTION: LEGAL DESCRIPTION S 16S 25W 12

Biological _____

EXTENT OF OIL

Water _____

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

36 CATALOGED ANAD. FISH SREAM? X N

262-10-10090

37 CATALOG #: 262-10-10080

CLEAR CREEK

38 STREAM NAME: MONUMENT CREEK

28 SURFACE THICKNESS								
----------------------	--	--	--	--	--	--	--	--

39 OIL IN STREAM BED? Y X

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

40 OIL ON STREAM BANKS? X 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? X N

Where: _____

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

43 ANADROMOUS FISH PRESENT? Y N

34 WAVE EXPOSURE: High Moderate Low

44 ANADROMOUS FISH OBSERVATION

35 SUBSTRATE TYPE: Bedrock _____ Boulder _____ Cobble 60
Gravel 40 Sand _____ Mud/silt _____

Species Aerial Ground

ACE 1951160-18

COMMENTS: ST/S ON COBBLE BANK SOUTH SIDE OF STREAM
MID TIDE AREA BELOW STORM BERM. WHERE STREAM
COMES FROM LAGOON. ALSO 8' SECTION OF OILED ABSORBENT
BOOM. ST/S ALSO 12 M X 1 M IN HEAD OF LAGOON.
SOME ST/L IN STORM DRIFT LINE.
RECOMMEND: SOME TYPE OF REMOVAL OF DEBRIS (OILED BOOM FEW FT)



*KATMAI NATIONAL PARK
AND PRESERVE*



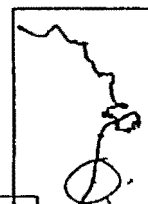
KATMAI BAY



KUKAK BAY



HALLO BAY



SWIKSHAK BAY

Clear Cr. / ~~Crater~~

CAPE DOUGLAS

Shelikof Strait



ACE 1951161 7/5

National Park Service
Shoreline Oil Assessment

Observer:....Schlach..... Zone:....Kodiak..... Segment #:.....
Date:.....5/2/90..... Place: Clear / Monument Creek.... Cape Douglas.
Time:..... Tide Height:..... Segment Length:.....m
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).....met

=====

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 1951162

Supratidal

Observer: ... Schach ... Segment #: ... Clear / Monument C

Substrate	%	oil type	continuous	broken	patchy/numerous	spars
bedrock	Ø	asphalt				
		pooled				
boulder	Ø	cover				
		coat				
cobble	60	stain				
		mousse				✓
pebble	40	patties				✓
		tarballs				
sand	Ø	sheen				
		logs				
silt/mud	Ø	plastic				
		dead algae				
organics	Ø	dead wildlife number and type Ø				

Upper Intertidal

Substrate	%	oil type	continuous	broken	patchy/numerous	sparse
bedrock	Ø	asphalt				
		pooled				
boulder	Ø	cover			✓	✓
		coat			✓	✓
cobble	Ø	stain			✓	✓
		mousse			✓	✓
pebble	60	patties			✓	✓
		tarballs				
sand	40	sheen				
		logs				
silt/mud	Ø	plastic				
		dead algae				
organics	Ø	dead wildlife number and type				

ACE 1951163

Middle Intertidal

Observer:.....Schuch.....Segment #:...Monument... clear/

Substrate	%	oil type	continuous	broken	patchy/numerous	spar
bedrock	0	asphalt				
		pooled				
boulder	0	cover				
		coat				
cobble	0	stain				
		mousse				
pebble	60	patties				
		tarballs				
sand	20	sheen				
		logs				
silt/mud	20	plastic				
		dead algae				
organics	0	dead wildlife number and type 0				

NO OIL OBSERVED

Lower Intertidal

Substrate	%	oil type	continuous	broken	patchy/numerous	spar
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 0				

NO OIL OBSERVED

ACE 1951164

Biological Assessment
Of Oil Impacted Area

Observer: Schoch Segment #: clear / Monuma

Intertidal Organism	Dense	Moderate	Sparse	Rare	Juvenile	Mortality
Barnacles						
Mussels					SSAT	
Littorina		See	Anad			
Nucella				FORM		
Limpets		BIO				
Amphipods						
Isopods						
Echinoderms						
Fucus						
Other Algae						

Marine Mammal Observations:

Terrestrial Mammal Observations:

Bird Observations:

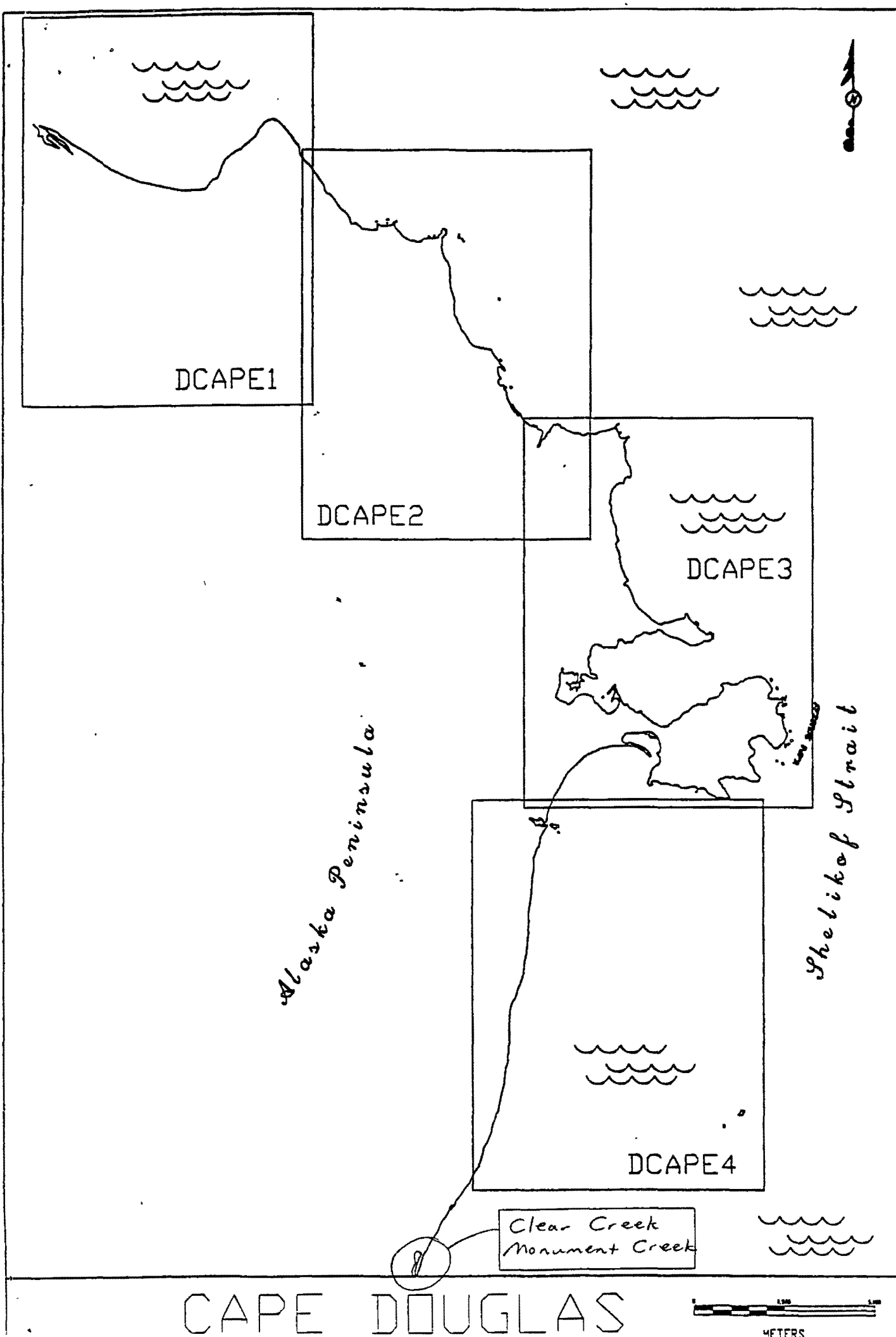
General Observations:

Oiled debris should be removed from inside

the lagoon area. Scattered patches of
moss should be removed with shovels.

The oiled absorption boom should be removed.

ACE 1951165



Clear Creek /
Monument Cree

