

251-82-10090

BIG FORT CREEK

Big Fort Crk.

ACE 1852260



89 Stream Survey

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

SEGMENT NUMBER: LOCAL STREAM #: 251 82 10090 (ANDREAN)?

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

ASC NUMBER: 251-81-10090
 SURVEY TYPE: SS
 METHOD: F
 DATE: 9/1/89
 START TIME: 1005
 STOP TIME: N/A

TEAM RECORDER: Randy Talvi
 OBSERVERS: Jeffrey P. Barnhart

AGENCY(IES): ADF&G

PHOTOS TAKEN? Y
 Roll #: 89-RGT-001K Frames: 7, 8, 9
 VIDEO TAKEN? Y Tape Number: H5008
 Counter Start: 0435

SAMPLES TAKEN? Y

SAMPLE I.D. NUMBERS: 1. S3-1-1
 4.

2. S3-1-2
 5.

3. S3-1-3
 6.

OILING DATA

	LENGTH	WIDTH	M2	%	THICK	FEN	OIL TYPE
SITE 1	350m	3m	1050	10	1.27	1.27cm	MS Patties
SITE 2	300m	4m	1200	5	1.27	1.27cm	MS Patties
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT: L

OIL IN STREAM CHANNEL? Y

SUBSTRATE

Bedrock X Granule
 Boulder Sand
 Cobble X Silt
 Pebble Veget.

OIL ON BEACH WITHIN 50M OF STREAM MOUTH? Y

SPECIES	PS				
COUNT	400				

COMMENTS: site S3-1. Pink salmon were observed spawning in the intertidal zone. Counted 400 pink salmon from present Tide line up creek to high Tide mark. Estimated 100 P.S. Carcasses in same stretch of stream.



89 Stream Survey

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

ASC NUMBER: 251-81-10090
 SURVEY TYPE: SS
 METHOD: F
 DATE: 9/1/89
 START TIME: 1005
 STOP TIME: N/A

TEAM RECORDER: Randy Talvi
 OBSERVERS: Jeffrey P. Barnhart

AGENCY(IES): ADF&G

PHOTOS TAKEN? Y
 Roll #: 89-RGT-001K Frames: 7, 8, 9
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OILING DATA

	LENGTH	WIDTH	M2	%	THICK	FEN	OIL TYPE
SITE 1	350m	3m	1050	10	1.27	1.27cm	MS Patties
SITE 2	300m	4m	1200	5	1.27	1.27cm	MS Patties
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT: L

OIL IN STREAM CHANNEL? Y

SUBSTRATE

Bedrock X	Granule
Boulder	Sand
Cobble X	Silt
Pebble	Veget.

OIL ON BEACH WITHIN 50M OF STREAM MOUTH? Y

SPECIES	PS				
COUNT	400				

COMMENTS: site S3-1. Pink salmon were observed spawning in the intertidal zone. Counted 400 pink salmon from present tide line up creek to high tide mark. Estimated 100 P.S. carcasses in same stretch of stream.

Shuyak Is., Andrean Bay

FISH HABITAT ASSESSMENT FORM

REGION: PWS KP, CI ☒ AP OBSERVER(S) Jeff Barnhart
Randy Talui
 SITE NO. 53-1 AERIAL PHOTO NO. K1-7 CAT NO. 251-81-10090
 STREAM NAME — *LAT 58° 30' 0" N LONG 152° 26' 0" W
 DATE 9/1/89 TIME 1010 TIDE: Low slack ☒ Flood High slack Ebb
 CATALOGED ANADROMOUS STREAM? ☒ N ANAD. FISH FOUND? ☒ N
 OIL FOUND IN STREAM? ^{see notes} Y N OIL FOUND NEAR STREAM (1 MI.)? ☒ N
 OIL SAMPLES TAKEN? ☒ N ID NOS. 53-1-1, 53-1-2, 53-1-3

35 mm PICTURES TAKEN? ☒ N CONVERTED TO 89-RGT-001-K
 ROLL NO(S). 195A 91B

EXPOSURE NO.	DESCRIPTION
<u>7</u>	<u>Oil sheen in AFS</u>
<u>8</u>	<u>Mousse on rocks</u>
<u>9</u>	<u>Mousse on rocks</u>
<u>10^{RT}</u>	

VIDEO FOOTAGE TAKEN? ☒ N CASSETTE NO(S). H5008
 DESCRIPTION: Frames 0435-0769 Pink Salmon
spawning in intertidal area. Mousse patch, stream,
Bay.

* From Pilots Chart

ANADROMOUS FISH OBSERVATIONS
PINK CHUM RED KING COHO DOLLY

Aerial								
	400 Live							
	100 Dead							
Ground								

COMMENTS: Fish count was made from High tide line of stream to prevent tide mark (200 yds).

OIL OBSERVATIONS

EXTENT OF OIL:

	WITHIN STREAM	OUTSIDE STREAM
SURFACE COVERAGE	—	See Notes
SURFACE THICKNESS	—	See Notes
PENETRATION	—	$\frac{1}{2}$ "

**OIL DISTRIBUTION DIAGRAM
(SHOW SAMPLING SITES)**

AFS 251-81-10090

PREDOMINANT

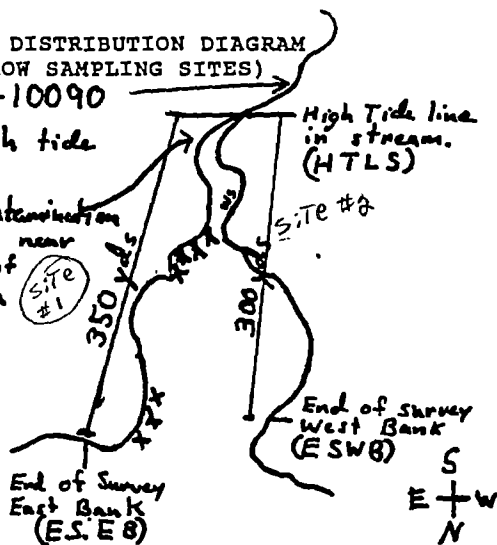
SUBSTRATE TYPE: * Map is of High tide line.

- ①. Bedrock
- ②. Boulder
- ③. Cobble
- ④. Gravel
- ⑤. Sand
- ⑥. Mud
- ⑦. Other _____

Measurements on diagram and from paces

x = Subsample of oil
ws = water sample

Oil contamination present near H.T.L. of stream



COMMENTS: Survey of East bank from H.T.L.S. to E.S.E.B. showed scattered mouse in a 2-3 yd Band from high tide line. West bank from H.T.L.S. to E.S.W.B. showed scattered mouse in a 3-4 yd wide band from the high tide line into the intertidal zone.

S3-1

"*Rite in the Rain*"
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ALL-WEATHER

LEVEL

Notebook No. 311-M

Alaska Dept of Fish & Game Habitat Div

Kodiak, Alaska 986-5033

Kodiak Archipelago Anadromous Fish
Habitat Assessment

①

Anadromous Fish Habitat Assessment

Exxon Valdez oil spill

Date: Sept 1, 1989

Location of sampling point:

Latitude: $58^{\circ} 30' 0''$ NLongitude: $152^{\circ} 26' 0''$ WOther comments: Shuyak Is,
Andrean Bay AFS 251-81-10090

Measurements are from paces

Type of sample: ☒ oil or sediment ☐ (circle one)

How many samples taken? 3

2 oil
1 water

Volume of samples taken: 250 ml

Date and Time of collection: 10:30 am
Sept 1, 1989

①

List of sample identification numbers:

S3-1-1

S3-1-2

S3-1-3

Description of sampling point and sampling methodology.

For Description of sampling point see Fish Habitat Assessment Form - Oil Distribution Diagram. Two identical

samples were taken from seven different subsamples. Subsamples range from mouse patties to oil saturated gravel.

* See Draft Plan of Anadromous Plan pg 9 for sampling procedure or Fish Habitat Assessment Plan pg. 9 for sampling procedure.

②

References (maps, photographs, video):

- Aerial Photo K1-7
- 35mm Pictures 195A-7, 195A-8, 19A-9. Roll # converted To 89-RGT-001-K
- Video Footage Cassette # H5008
Footage 0435-0769

Field observations:

Beach substrate is predominantly Bedrock and cobblestone. Has weather Oil & mouse patties. Found mostly in cracks between rocks or on rocks themselves near the High tide line.

Survey of East Bank from high tide line of Stream was 350 yds in length and showed the presence of a 2-3 yd band of slightly weathered mouse patties near the High tide line of shoreline. This band extended from High tide line of shoreline into intertidal

④ zone.

West Bank Survey showed the presence of a 3-4th band of slightly weathered mouse patties. Band was measured from High tide line of shore into intertidal zone.

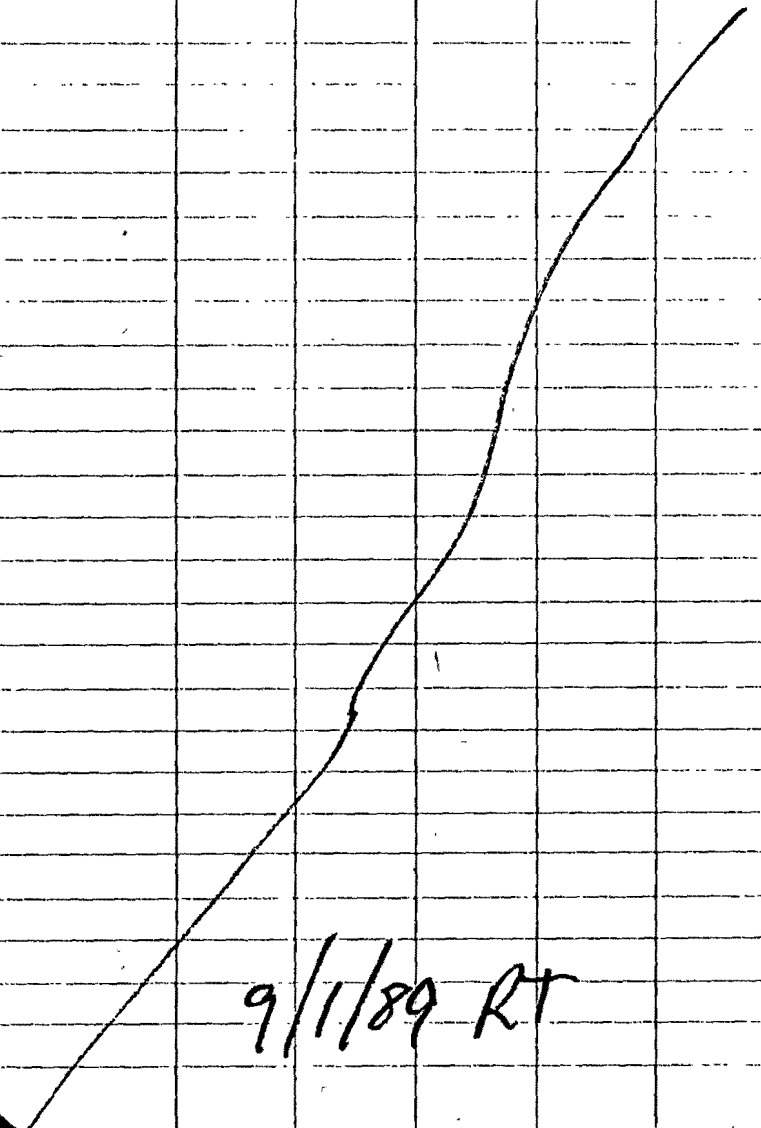
Length of survey was approximately 300 yds from High tide line of stream to end of survey.

* See Fish Habitat Assessment Form - Oil Distribution Diagram for more info.

Pilot: Roger Claycomb

Randy Tali 9/1/89

⑤



9/1/89 RT

Shuyak Is., Andros Bay

BIG FORT CREEK

FISH HABITAT ASSESSMENT FORM

REGION: PWS KP, CI (K) AP OBSERVER(S) Jeff Barnhart Randy Talvi

SITE NO. S3-1 AERIAL PHOTO NO. K1-7 CAT NO. 251-81-10090

STREAM NAME — *LAT 58° 30' 0"N LONG 152° 26' 0"W

DATE 9/1/89 TIME 1010 TIDE: Low slack (Flood) High slack Ebb

CATALOGED ANADROMOUS STREAM? (Y) N ANAD. FISH FOUND? (Y) N

OIL FOUND IN STREAM? ^{See notes} Y N OIL FOUND NEAR STREAM (1 MI.)? (Y) N

OIL SAMPLES TAKEN? (Y) N ID NOS. S3-1-1, S3-1-2, S3-1-3

35 mm PICTURES TAKEN? (Y) N ROLL NO(S). 195A

EXPOSURE NO. DESCRIPTION

7 Oil sheen in AFS

8 Mousse on rocks

9 Mousse on rocks

10th

VIDEO FOOTAGE TAKEN? (Y) N CASSETTE NO(S). HS008

DESCRIPTION: Frames 0435-0769 Pink salmon spawning in intertidal area. Mousse patch, stream, Bay.

ANADROMOUS FISH OBSERVATIONS

PINK CHUM RED KING COHO DOLLY

	PINK	CHUM	RED	KING	COHO	DOLLY
Aerial						
Ground	400 live 100 dead					

COMMENTS: Fish count was made from High tide line of stream to prevent tide mark (200 yds).

OIL OBSERVATIONS

EXTENT OF OIL:

	WITHIN STREAM	OUTSIDE STREAM
SURFACE COVERAGE	—	See Notes
SURFACE THICKNESS	—	See Notes
PENETRATION	—	1/2"

OIL DISTRIBUTION DIAGRAM
(SHOW SAMPLING SITES)

AFS 251-81-10090

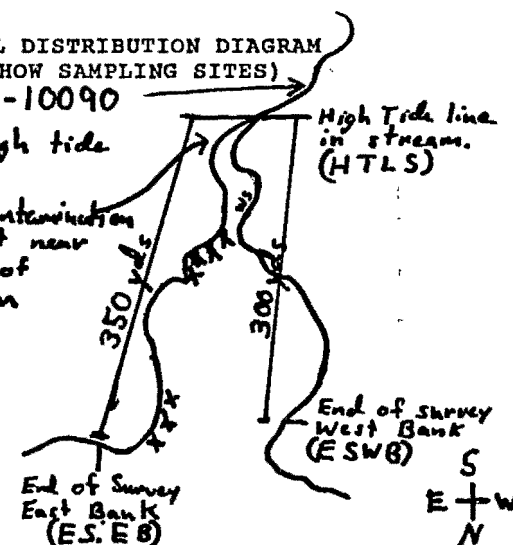
PREDOMINANT SUBSTRATE TYPE: * Map is of High tide line.

1. Bedrock
2. Boulder
3. Cobble
4. Gravel
5. Sand
6. Mud
7. Other

measurements on diagram and from paces

x = subsample of oil
ws = water sample

Oil contamination present near H.T.L. of stream



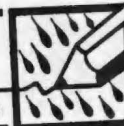
COMMENTS: Survey of East bank from H.T.L.S. to ESEB. showed scattered mousse in a 2-3 yd Band from high tide line. West bank from HTLS. to ESWB. showed scattered mousse in a 3-4 yd wide band from the high tide line into the intertidal zone.

* From Pilots Chart

ACE: 1852316

PAGE 1852317

"Rite in the Rain"
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ALL-WEATHER

LEVEL

Notebook No. 311-M

"Rite in the Rain" - A unique All-Weather Writing Paper created to shed water and enhance the written image. It is widely used throughout the world for recording critical field data in all kinds of weather.

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Alaska Dept of Fish & Game Habitat Div

Kodiak, Alaska 496-5033

Kodiak Archipelago Anadromous Fish
Habitat Assessment

ACE 1852318

①

Anadromous Fish Habitat Assessment

Exxon Valdez oil spill

Date: Sept 1, 1989

Location of sampling point:

Latitude: 58° 30' 0" N

Longitude: 152° 26' 0" W

Other comments: Shuyak Is.

Andrean Bay AFS 251-81-10090

Measurements are from paces

Type of sample: Oil or sediment (circle)

How many samples taken? 3

2 oil
1 water

Volume of samples taken: 250 ml

Date and Time of collection: 10:30 am
Sept 1, 1989

ACE 1852319

9/1/89 Depart Airport 9:15 AM. Roger Claycomb
Twinstar helicopter 96T. Company PHI.

checked possible Anadromous Fish streams (gates) from
Bear Cove to North end of Shuyak. The 3 streams we
checked were small and all were blocked by extensive
log piles (9:45 AM). Observed no fish via aerial survey
stop stream # 251-81-10090 10:05 AM.

oil present. Found mouse splinters + small patches of oil in

40 yards of high tide mark up the stream.

Pink salmon spawning in this intertidal area.

counted 400 pink salmon from present tide line up creek

to high tide mark. Estimated excesses 100 in same

stretch of stream. video reel 0769

still 35 mm photos. Roll # 195A Frame's 7, 8, 9

Ted Boice → 7,000 bags oil in 8 days (40 pound bags)

2nd cleaning. First cleaning 500 bags Bear Cove.

First Cove on west side, just outside Bear Cove Boulder

Rock beach. Lots of oil penetration to 3' deep

stopped 12:10 Red Fox Bay

~~A3-2~~ video 0769-0971 Red Fox Bay
STAT Area 251-50 stream # 504 from Kodiak

area Salmon Distribution Map. counted 100 PS present
in stream from high tide point to current tide level
in Lagoon. Also cokes jutting in Bay.
still photos - 195A Frame 10 & 11

~~A3-3~~ 58° 14' 48" N Lat calculated from
152° 19' 30" W Long map.

~~Stream 302 Izhut Bay. Landed 13:00 pm Departed 13:20~~

~~pink salmon present in stream/cokes off creek mouth~~

~~Estuary flooded by tide, unable to survey. Depart for
Kodiak.~~

GPB

9/2/89 Depart Airport 8:15 AM. Roger Claycomb
pilot. Company PHI. Twinstar helicopter 96T

stop site A4-1 8:34 AM Depart 10:50 AM

stream 300 400 58° 14' 40" N Lat

stream 700 152° 19' 20" W Long

Stream # 258-30-10020

①
List of sample identification numbers:

S3-1-1
S3-1-2
S3-1-3

Description of sampling point and sampling methodology.

For Description of sampling point see Fish Habitat Assessment Form - Oil Distribution Diagram.

Two identical samples were taken from seven different subsamples. Subsamples range from mouse patties to oil saturated gravel.

* See Draft Plan of Anadromous Plan pg. 9 for sampling procedure. RT
Fish Habitat Assessment Plan pg. 9 for sampling procedure.

ACE 1852322

②
References (maps, photographs, video):

- Aerial Photo K1-7
- 35mm Pictures 195A-7, 195A-8, 19A-9.
- Video Footage Cassette # H5008 Footage 0435-0769

Field observations:

Beach substrate is predominantly Bedrock and cobblestone. Has weathered Oil & mouse patties. Found mostly in cracks between rocks or on rocks themselves near the High tide line.

Survey of East Bank from high tide line of Stream was 350 yds in length and showed the presence of a 2-3 yd band of slightly weathered mouse patties near the High tide line of shoreline. This band extended from High tide line of shoreline into intertidal

ACE 1852323

④ zone.

West Bank Survey showed the presence of a 3-4 yd band of slightly weathered mouse patties. Band was measured from High tide line of shore into intertidal zone.

Length of survey was approximately 300 yds from High tide line of Stream to end of survey.

* See Fish Habitat Assessment Form - Oil Distribution Diagram for more info.

Pilot: Roger Claycomb

Randy Tali 9/1/89

⑤

Shuyak Island, Andrean Bay cont.

ACE 1852324

ACE 1852325

9/1/89 ① Talked to a ~~Exxon~~ (Tim Graham) worker about Set Net Sein. We noticed in "Bear Cove", while sampling the day before. He mentioned that the skipper of the observation boat (Bryan Young) had noticed a considerable amount of contamination (oil) in the net. This occurred sometime after we left the previous day, and before 0900 today. Boat Name: Cecilia

Skipper: Bryan Young

Site number: S2-1

Stream number: Shyyak Is.

AFS 251-81-10010

~~Exxon~~ Employee: Tim Graham

We did a fly by of Bear Cove and noticed the set net sein was still in place. After noticing

some clean up crews in Advean Advea Bay decided to sample a nearby stream. The stream was contaminated and we did an oil sample survey.

Location: Shyyak Is. AFS 251-81-10090
Sample #: S3-1-1, S3-1-2.

② The second and last stream we surveyed was on Afognak Is., Red Fox bay, AFS. None Site # A3-2, Sample # A3-2-1+2. Oil contamination was also present here. Jeff Barnhart met an individual who had worked on the Bear Cove cleanup, particulars of conversation are logged in Jeffs Field book.

9/1/89 RJ.

190 preadssat

ADF&G MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS SS DS TS AVS SCHA MMHS PTA2 REGION: PWS KP, CI K APMETHOD: Aerial Ground Boat3 DATE: 4/24/9015 HIGH TIDE TIMES: 121 TEAM RECORDER: E. WEISS4 START TIME: 104516 HIGH TIDE HTS: 122 OBSERVERS: J. BARNHART5 STOP TIME: 114017 LOW TIDE TIMES: 092123 AGENCY: ADF&G6 SEGMENT #: 100418 LOW TIDE HTS: -3.224 PHOTOS TAKEN: X N

7 STATION #: _____

19 TIDE HT AT SURVEY: _____

Roll #: 90822002 Frame: 2-38 K-UNIT: KO101Ebb Slack Flood Slack25 VIDEO TAKEN: Y X TAPE#: _____

9 STAT AREA: _____

20 USCG QUAD: _____

Start: _____ End: _____

10 LAT: _____

11 LONG: _____

26 SAMPLES TAKEN? Y X Number

12 SOURCE: Map Loran

011 _____

13 LOCATION: ANDREAN BAY, SHUYAK ISLAND

Sediment _____

14 DESCRIPTION: _____

Biological _____

Water _____

EXTENT OF OIL

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

30 OVERALL OIL IMPACT: N VL L M H31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain32 OILED DEBRIS? Y N33 SHORELINE TYPE: Headland Low-lying Rocks Beach Cove
Lagoon Marsh34 WAVE EXPOSURE: High Moderate Low35 SUBSTRATE TYPE: Bedrock 25 Boulder 20 Cobble 50
Gravel 5 Sand _____ Mud/silt _____36 CATALOGED ANAD. FISH STREAM? X N 1/29/9137 CATALOG #: 251-82-1009038 STREAM NAME: BIG FORT CREEK39 OIL IN STREAM BED? Y X40 OIL ON STREAM BANKS? X N41 OIL ON BEACH ADJACENT TO MOUTH? X N
(within 50 meters)42 OIL WITHIN 1 MILE OF STREAM? Y N

Where: _____

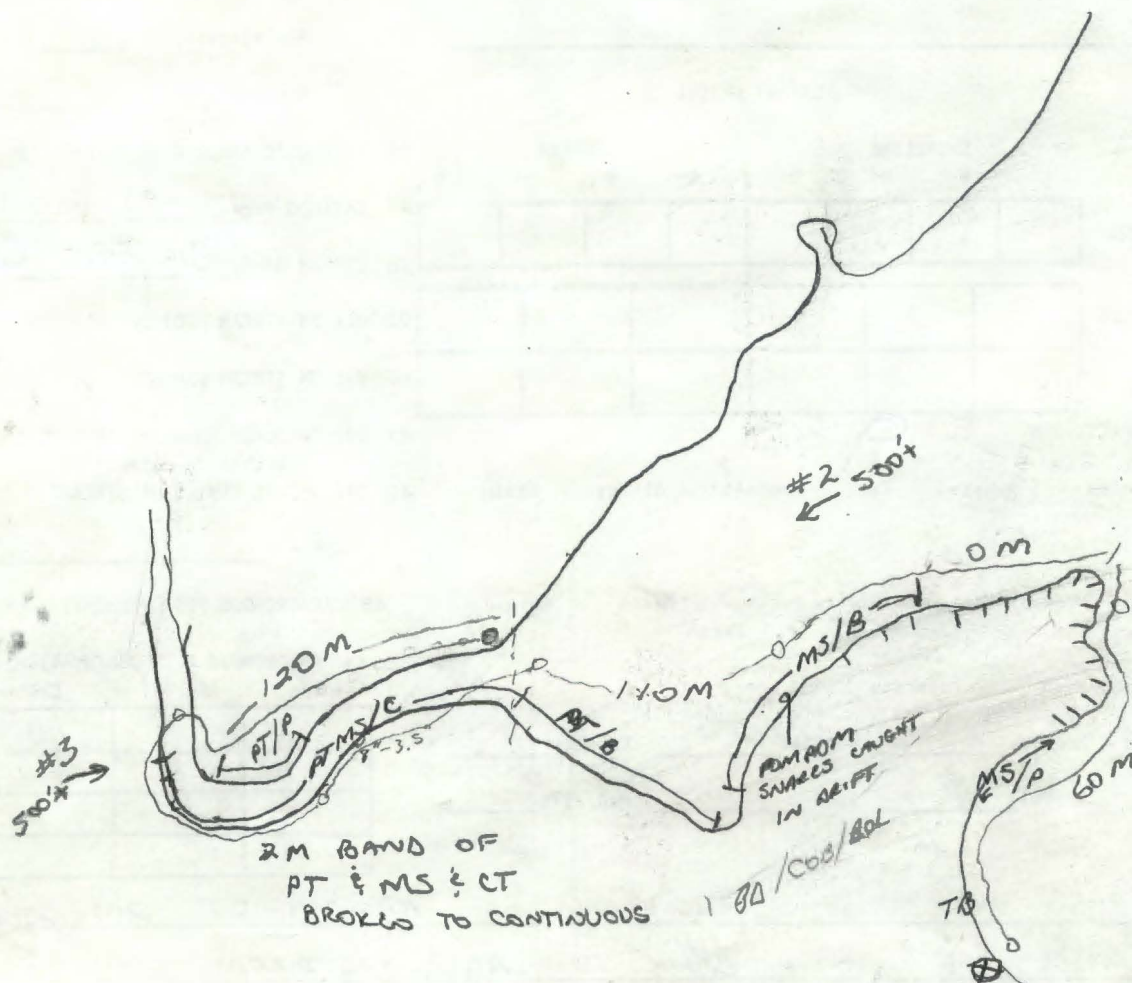
43 ANADROMOUS FISH PRESENT? Y N44 ANADROMOUS FISH OBSERVATION
Species Aerial Ground

COMMENTS: BROKEN TO CONTINUOUS BAND OF PT-MS-CT 2M WIDE
ALONG MOST OF SOUTH BANK OF LAGOON/STREAM 300+M
VARIABLE FROM 2-20% COVERAGE. SHORT BAND 20M X 1M CT PT/P
AT POINT BANK OF STREAM N. SIDE.

RECOMMEND: YES ANADSSAT / CLEANUP Edwin Jeff Barnhart

ACE 1852256 +1/F/HF

FRAME(S)	ROLL # 90EW002-K	DESCRIPTION
#1		TARBALL FOUND ON BEACH OUTSIDE LAGOON
2-3		AERIAL VIEWS OF STREAM LAGOON
23-24	ROLL # 90EW001K	TARBALL OUTSIDE LAGOON.

46 OIL DISTRIBUTION DIAGRAM

= Sample taken
 = Photo frame # and
 shot direction.

ACE 1852257

90 preanadssat

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

ASC NUMBER: *251-82-10090*
 SURVEY TYPE: *PA*
 METHOD: *Foot*
 DATE: *4/24/90*
 START TIME: *1045*
 STOP TIME: *1140*

TEAM RECORDER: *Ed Weiss*
 OBSERVERS: *Jeff Barnhart*

AGENCY(IES): *ADF+G*

PHOTOS TAKEN? *Y*
 *Roll #: *90EWWOODRK* Frames: *23-24*
 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>300m</i>	<i>2m</i>	<i>600</i>	<i>10</i>	<i>N/A</i>	<i>Ø</i>	<i>PT/MS/CT</i>
SITE 2	<i>20m</i>	<i>1m</i>	<i>20</i>	<i>10</i>	<i>N/A</i>	<i>Ø</i>	<i>CT/PT</i>
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT: *L*

OIL IN STREAM CHANNEL? *Y*

SUBSTRATE

Bedrock <i>25</i>	Granule <i>5</i>
Boulder <i>20</i>	Sand
Cobble <i>50</i>	Silt
Pebble	Veget.

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

SPECIES	<i>N/A</i>				
COUNT					

COMMENTS: * Photo's can't Roll# 90EWWOODRK Frames 1-3

Broken To Continuous band of PT-MS-CT 2m wide along most of south bank of Lagoon/Stream, 300+m varies from 2-20% coverage. Short band 20m x 1m CT, PT/P at point bank of stream N. side.

Recommend: yes Anadssat / Cleanup

ADF&G MULTI-ASSESSMENT FORM
1991 GENERAL ENTRY CHECKLIST

STREAM#: 2518210090
SEGMENT: SI014

PAGE 32

DATE PRINTED: 07/25/91

LOCATION: SHUYAK ISLAND, ANDREAN BAY

SURVEY TYPE: 90 PRE ANADSSAT

METHOD: FOOT

DATE: 04/24/90

TEAM RECORDER: WEISS

START TIME: 1045

OBSERVERS: BARNHART

END TIME: 1140

TIDES: -0-

AGENCY: FG

OG/HAB DISCREPANCIES: -

PHOTOS TAKEN: Y

STATION: 2518210090

ROLL#: 90EWW001K 90EWW002K

FRAME: 23-24 01-03

VIDEO TAKEN: N

TAPE#: -0-

START: -0-

END: -0-

SAMPLES TAKEN: N

SAMPLE NUMBERS: -0-

-0-

-0-

-0-

-0-

-0-

OIL IN STREAM BED: Y

OVERALL OIL IMPACT: L

OIL ON BEACH BY MOUTH: Y

WAVE EXPOSURE: LOW

SHORELINE TYPE: COVE

SUBSTRATE TYPE: BEDROCK 25 BOULDER 20 COBBLE 50 VEGETAT -0-

GRAVEL -0- SAND -0- MUD/SILT -0- GRANULE -0- 5

ANADROMOUS FISH PRESENT: N

SPECIES: -0-

COUNT: -0-

-0-

-0-

-0-

-0-

-0-

-0-

-0-

-0-

ADF&G MULTI-ASSESSMENT FORM
1991 OILING ENTRY CHECKLIST

PAGE 32

DATE PRINTED: 07/26/91

STREAM# : 2518210090
SEGMENT#: SI014

SURVEY TYPE : 90 PRE ANADSSAT
DATE: 04/24/90
TIMES: 1045 - 1140

LOCATION: SHUYAK ISLAND, ANDREAN BAY
TEAM RECORDER: WEISS

-- OILING EXTENT --

SITE#	SITE TYPE	DEPTH (cm)	LENGTH (m)	WIDTH (m)	AREA (m)	%	THICK (cm)	PEN (cm)	OIL TYPE CODES
1	-0-	-0-	300	2	600	10	-0-	0	PT MS CT
2	-0-	-0-	20	1	20	10	-0-	0	CT PT

COMMENTS:

BROKEN TO CONTINUOUS BAND OF PT-MS-CT 2M WIDE ALONG MOST OF SOUTH BANK OF LAGOON/STREAM, 300+M VARIES FROM 2-20% COVERAGE. SHORT BAND 20M X 1M CT, PT/P AT POINT BANK OF STREAM N SIDE. RECOMMEND: YES ANADSSAT/CLEANUP.



ASC NUMBER: 251-82-10090
SURVEY TYPE: PA
METHOD: Foot
DATE: 4/24/90
START TIME: 1045
STOP TIME: 1140

SAMPLES TAKEN? N
SAMPLE I.D. NUMBERS: 1.
4.

TEAM RECORDER: Ed Weiss
OBSERVERS: Jeff Barnhart

AGENCY (IES): ADF+G

PHOTOS TAKEN? Y
*Roll #: 90FWW001K Frames: 23-24
VIDEO TAKEN? N Tape Number:
Counter Start:

2.
5.

3.
6.

	LENGTH	WIDTH	M2	%	THICK	FEN	OIL TYPE
SITE 1	300m	2m	600	10	N/A	Ø	PT/MS/CT
SITE 2	20m	1m	20	10	N/A	Ø	CT/PT
SITE 3							
SITE 4							
SITE 5							

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

SPECIES	N/A				
COUNT					

Broken To Continuous band of PT-MS-CT 2m wide along most of south bank of Lagoon/Stream, 300+m varies from 2-20% coverage. Short band 20m x 1m CT, PT/P at point bank of Stream N. side.

Recommend: yes Anad sat / cleanup

ANADROMOUS FISH STREAM EVALUATION

K1-1

SEGMENT ST/SI-014 STREAM NO: 251-82-10090 DATE 5/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
5T All Bald Eagle nests (3/1 to 6/1)
Active Bald Eagle nests (3/1 to 9/1)

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

ARCHAEOLOGICAL CONSTRAINTS:

If 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 Over DATE: 5/25/90

Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

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

COMMENTS: Recommend manual pick up of mousse tarballs and patties as indicated on attached sketch map. Consult ADF&G (regarding stream) and USFWS (regarding eagle nest) for appropriate work window.

TAG COMMENTS:

TAG APPROVAL DATE: 5/24/90.
ADEC ART WEINER Art Weiner
EXXON ANDY GAN Andy Gan
NOAA Bruce Westcott Bruce Westcott
USCG M. J. Hall M. J. Hall

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

ACE 1852308 +15/FF

KODIAK ECOLOGICAL CONSTRAINTS

- 1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
 1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
 No disturbance of stream bed or banks unless authorized by ADF&G. No beach flushing into stream drainage. No bioremediation or other chemical application within 100m of stream. Contact ADF&G Habitat Division prior to treatment for permits.
- 1C Salmon fry nursery area (4/31 to 7/31)
 1D Kotai Bay Hatchery release
 Pink salmon - late May, early June; Chum salmon - June; Sockeye salmon - early July.
- 1H Remote release site
 1I Gill net area
 1J Purse seine area
 Mainland, West side Kodiak, Shuyak & Moser/Olga Bay - 6/9 to 10/1.
 East side Kodiak, East side Afognak - 7/4 to 10/1.
- 1K Purse seine hook-off
 1L Set net sites
 USFWS setnet uplands permit 5/15 to 9/15.
- For Codes 1C through 1L contact ADF&G for specific dates, locations and constraints.
- 2M Herring spawning (4/15 to 6/30)
 Restrict boat traffic to essential minimum. Avoid damage to uncoiled intertidal and subtidal algae and seagrass. Contact ADF&G for specific dates and locations.
- 3N, 3P Harbor seal and sea lion pupping (5/10 to 6/30)
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 3O, 3Q Harbor seal and sea lion molting (8/15 to 9/15)
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 5R Seabird colony (5/1 to 8/31)
 Restrict air traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance. Contact ADF&G and USFWS prior to treatment.
- 5S Shorebird/waterfowl concentration (4/1 to 5/15)
 Restrict all activity to essential minimum, especially air traffic.
- 5T All Bald Eagle nests (3/1 to 6/1)
 Active Bald Eagle nests (3/1 to 9/1)
 Restrict air traffic to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates.
- 6U Recreation: Tent sites (6/1 to 9/15)
 6V Anchorages (6/1 to 9/15)
 6W Forest Service cabins (6/1 to 9/15)
 6X Lodge (6/1 to 9/15)
 6Y Special use destination
- 7Z Subsistence area: Salmon harvesting (6/1 to 9/30)
 7HH Finfish harvesting
 7II Deer harvesting (8/1 to 1/7)
 7JJ Invertebrate harvesting
 7KK Bear harvesting (4/1 to 5/15 and 10/25 to 11/30)
- For Codes 7Z through 7JJ contact ADF&G and Chenega Corporation for specific dates, locations, and constraints.

FIELD SHORELINE COMMENT SHEET

18/25

SEGMENT ST / 014 SI-004 SUBDIVISION: ASC# (BIG FORT) 251-82-10090 DATE 01 MAY 90

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

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

~~ADEC~~ ~~ADNR~~ ADFG

NAME Edward W. Weiss SIGNATURE Edward W. Weiss

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

MANUAL PICKUP OF TABLETS/POTTIES ON SOUTH SIDE
OF LAGOON UPPER TRAP AREA RECOMMENDED.

~~LAND MANAGER~~ ~~ADNR~~

NAME Mike [Signature] SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

This segment contains state lands proposed for future inclusion into Shuyak Island State Park and is an area of high recreational potential as well as providing wildlife habitat. Recent sign of brown bear, deer and one active eagle were observed. Also observed approximately 1/2 mi. south of this stream was an estimated 400' of yellow boom partially adrift. This was left from Exxon cleanup

ACE 1852310

22/25
REYNOLDS NO. 60130

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR					IMPACTED ZONES			
	A	B	P	S	100% OR LESS	100% OR LESS	100% OR LESS	100% OR LESS	100% OR LESS	SU	U	M	U
ASPHALT PAVEMENT													
POOLED													
COVER													
COAT													
STAIN				✓		✓					✓		
MOUSSE		✓		✓				✓			✓		
PATTIES				✓				✓			✓		
TARBALLS				✓	✓	✓					✓		
FILM													
NO OIL										✓		✓	✓

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

Did you Collect
DEBRIS
☐ YES ☒ NO
TYPE _____
#BAGS

Frames_____

[illegible]

COMMENTS NO PITS DUE DUE TO LACK OF OIL PENETRATION.

ACE 1852311

REVIEWED Tw DATE 5/3/90.

DATE 5 / 1 90

CHECKLIST

- ___ N Arrow
- ___ Approx. Scale
- ___ Seg/Sub Entry
- ___ Oil Dist.
- ___ Width
- ___ Length
- ___ % Cover
- ___ Substrate Character
- ___ Est. HPA/LWA
- ___ SSL
- ___ Profile Location(s)
- ___ Profile(s)
- ___ PH Location(s)
- ___ Photo Location(s)

LEGEND

1 
 P1 - No Subsurface Oil
 2 
 P1 - Subsurface Oil

CT/C

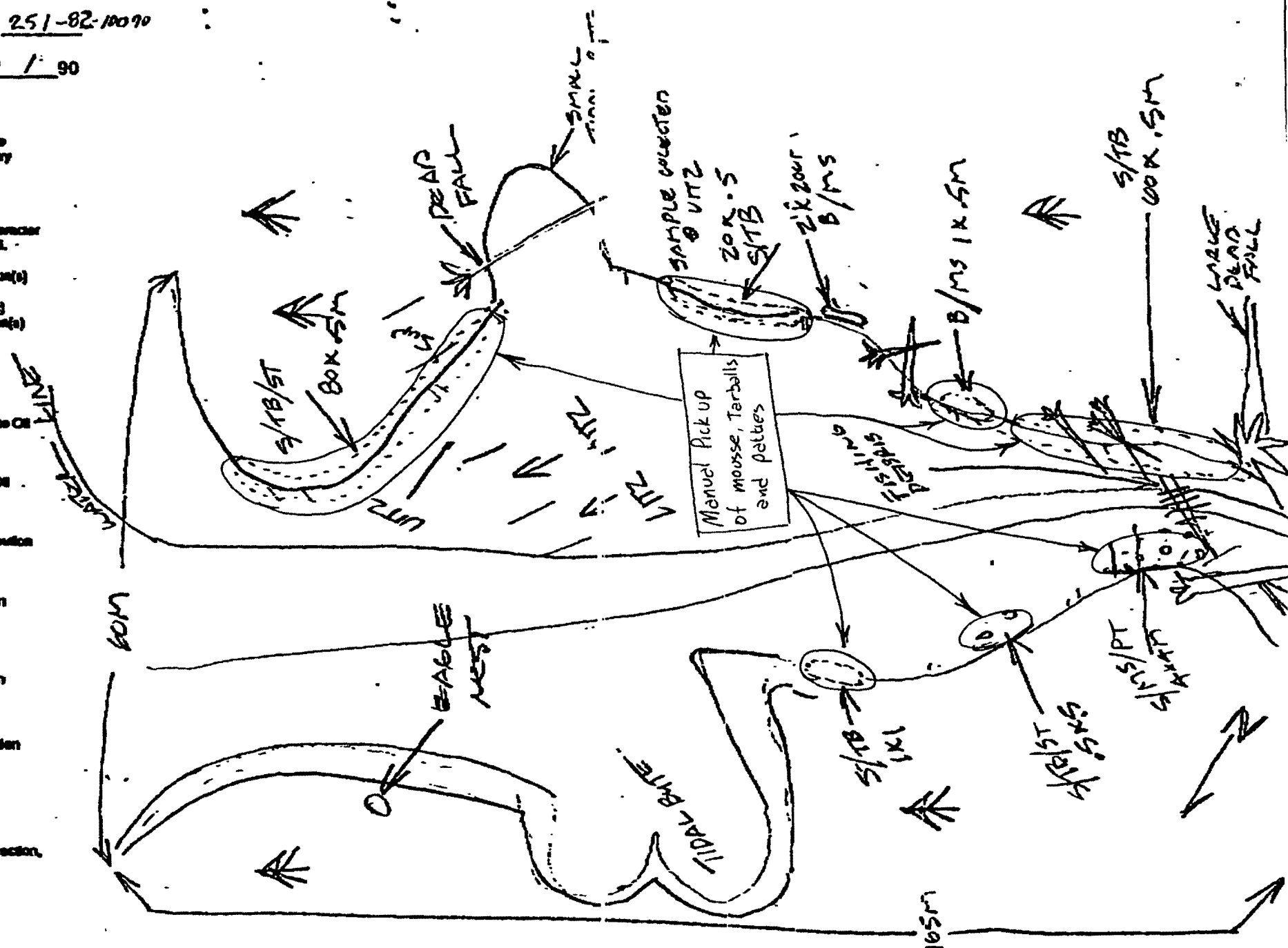
CT/B
Broken Clusters

CT/P
Policy Distribution

[CT/S]
Splashed Distribution

Old Vegetation

Photo location, direction,
and number



CI Character Length (m): AP PO CV CT ST 20 MS 74 PT TB 74 FL NO

FILE NO. 04-2274-00

ACE 1852312

ADFG MULTI-ASSESSMENT DATA FORM

ANADSSAT

1 SURVEY TYPE: BS GC DS TS AVS SCHA HHS PTA2 REGION: PWS KP, CI KAPMETHOD: Aerial Ground Boat3 DATE: 5/1/9016 HIGH TIDE TIMES: 121 TEAM RECORDER: F. Weiss4 START TIME: 110518 HIGH TIDE HTS: 122 OBSERVERS: KAL LARSON, K. CRITCHLOW5 STOP TIME: 122017 LOW TIDE TIMES: 130423 AGENCY: ADFG/USWC/EXXON/6 SEGMENT #: SI004-1419 LOW TIDE HTS: .524 PHOTOS TAKEN: Y

7 STATION #: _____

10 TIDE HT AT SURVEY: _____

Roll #: _____ Frames: _____

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

9 STAT AREA: _____

20 USCG QUAD: _____

Starts: _____ Ends: _____

10 LAT: _____

11 LONG: _____

26 SAMPLES TAKEN Y Number _____

12 SOURCE: Map Loran

Oil _____

13 LOCATION: ANDREAN BAY, SHUYAK ISLAND

Sediment _____

14 DESCRIPTION: _____

Biological _____

EXTENT OF OIL

Water _____

27 SURFACE COVERAGE

SHORELINE				STREAM			
L	V	H	S	L	V	H	S
250	1-2		3%	100	1		5%

36 CATALOGED ANAD. FISH SREAM? Y N37 CATALOG #: 251-87-1009038 STREAM NAME: BIG FORT CREEK

28 SURFACE THICKNESS

SURFACE				SURFACE			

39 OIL IN STREAM BED? Y N

29 PENETRATION

40 OIL ON STREAM BANKS? X N30 OVERALL OIL IMPACT: N Y L M H41 OIL ON BEACH ADJACENT TO MOUTH? Y N
(within 50 meters)31 OIL TYPE: Pooled House Tar Asphalt Sticky Stain42 OIL WITHIN 1 MILE OF STREAM? Y N32 OILED DEBRIS? Y N

Where: _____

33 SHORELINE TYPE: Headland Lagoon Low-lying Rocks Beach Cove43 ANADROMOUS FISH PRESENT? Y N34 WAVE EXPOSURE: High Moderate Low

44 ANADROMOUS FISH OBSERVATION

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

Species Aerial Ground

COMMENTS: SPORADIC SPLASHES/PATILS AROUND SOUTH BANK OF LAGOON
BAND ~ 350 M x 1.5 M < 10% COVERAGE WITHIN BAND.
BAND IS SPORADIC AT BEST RANGING DOWN TO SPLASHY.

2A/
25

Seg ID: SI-⁰¹⁴~~004~~ Subdiv: 251-8²-10090
Survey Date: 5/1/90
Comments by: Ken Critchlow

This site was lightly oiled along the upper edge of the UITZ. Tarballs, patties and steam were commonly observed along the south side of the stream. Tarballs were occasionally observed on the north side of the stream.

The intertidal biota, while healthy and unoiled, was not particularly abundant. The oiled substrate was only populated by a few *Hydrobia*.

The only apparent ecological constraints would be the presence of an active bald eagle nest on the north bank of the stream. Cleanup activity would certainly disturb the birds.

KR Critchlow

Field copy

Big Fort creek

K1-1

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/SI-014 STREAM NO: 251-82-10090 DATE 5/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
5T All Bald Eagle nests (3/1 to 6/1)
Active Bald Eagle nests (3/1 to 9/1)

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

ARCHAEOLOGICAL CONSTRAINTS:

If 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 Owe DATE: 5/25/90

Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

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

COMMENTS: Recommend manual pick up of mousse tarballs and patties as indicated on attached sketch map. Consult ADF&G (regarding stream) and USFWS (regarding eagle nest) for appropriate work window.

TAG COMMENTS:

TAG APPROVAL DATE: 5/24/90.
ADEC ART WEINER Art Weiner
EXXON ANDY BAI Andy Bai
NOAA Bruce Westcott Bruce Westcott
USCG M. J. Hall M. J. Hall

FOSC: A. J. Jorgensen DATE: 5/31/90

ADFG MULTI-ASSESSMENT DATA FORM

ANADSSAT

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

METHOD: Aerial Ground Boat

3 DATE: 5/1/90 16 HIGH TIDE TIMES: 1 21 TEAM RECORDER: F. WEISS

4 START TIME: 1105 18 HIGH TIDE HTS: 1 22 OBSERVERS: KAL LARSON, K. CATCHER

5 STOP TIME: 1220 17 LOW TIDE TIMES: 1504 23 AGENCY: ADFG/USWC/EXXON/A

6 SEGMENT #: SI 004-14 19 LOW TIDE HTS: .5 24 PHOTOS TAKEN: Y

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

8 K-UNIT: K0101 Ebb Slack Flood Slack 25 VIDEO TAKEN: Y TAPE#: _____

9 STAT AREA: _____ 20 USCG QUAD: _____ Starts: _____ Ends: _____

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

12 SOURCE: Map Loran 011 _____

13 LOCATION: ANDREAN BAY, SHUYAK ISLAND Sediment _____

14 DESCRIPTION: _____ Biological _____

Water _____

EXTENT OF OIL

27 SURFACE COVERAGE

SHORELINE				STREAM			
L	W	H ²	%	L	W	H ²	%
250	1-2		3%	100	1		5%

28 SURFACE THICKNESS

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

29 PENETRATION

SURFACE				SURFACE			
---------	--	--	--	---------	--	--	--

30 OVERALL OIL IMPACT: N B L N H

31 OIL TYPE: Pooled House Tar Asphalt Sticky Stain

32 OILED DEBRIS: Y N

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

34 WAVE EXPOSURE: High Moderate Low

35 SUBSTRATE TYPE: Bedrock _____ Boulder 25 Cobble 35

Gravel 40 Sand _____ Mud/silt _____

36 CATALOGED ANAD. FISH STREAM? B N

37 CATALOG #: 251-82-10090

38 STREAM NAME: DIG FORT CREEK

39 OIL IN STREAM BED? Y A

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

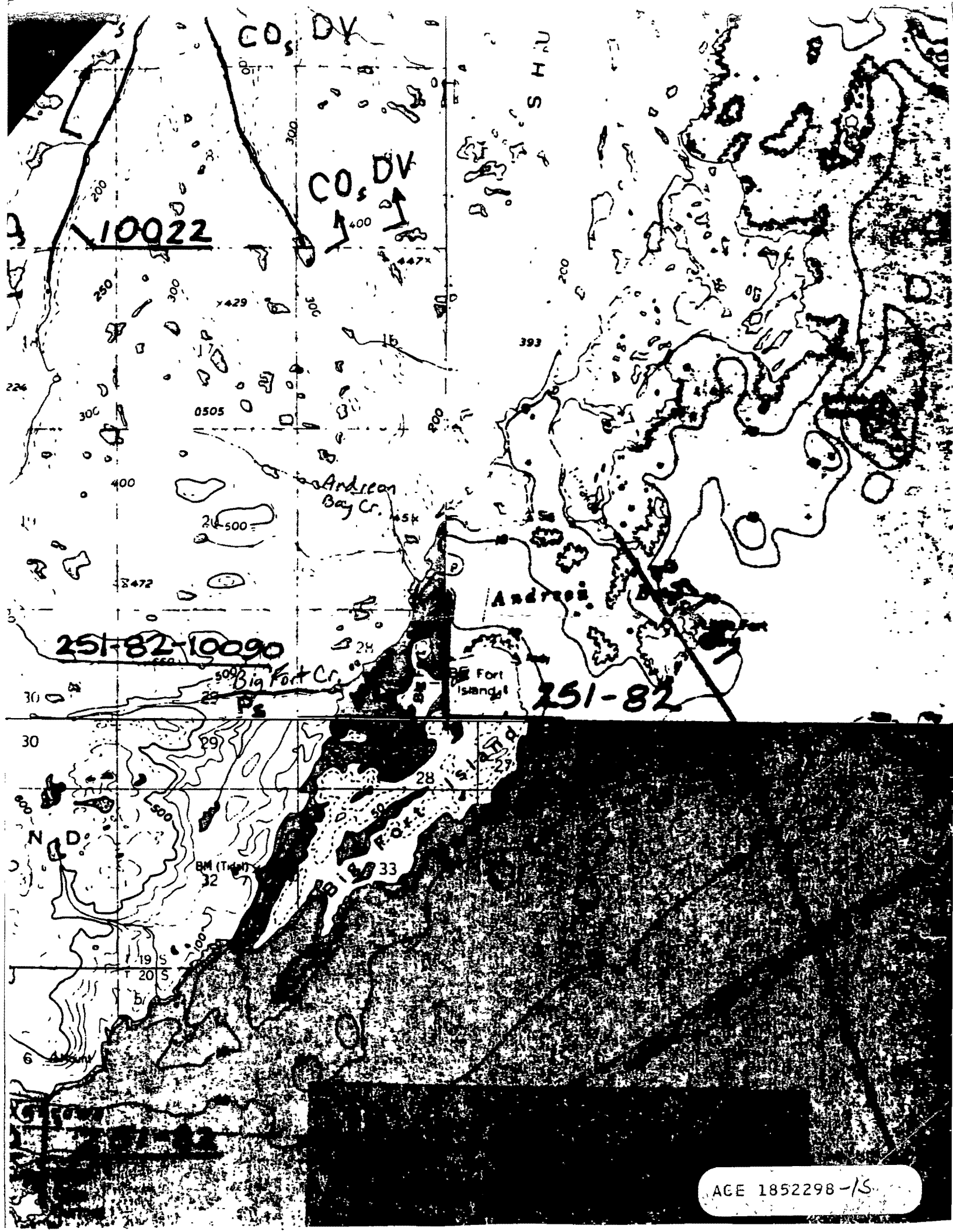
Where: _____

43 ANADROMOUS FISH PRESENT? Y N

44 ANADROMOUS FISH OBSERVATION

Species	Aerial	Ground

COMMENTS: SPORADIC SPLASHES/PARTICLES AROUND SOUTH BANK OF LAGOON
BAND X 350 M X 1.5 M < 10% COVERAGE WITHIN BAND.
BAND IS SPORADIC AT BEST RANGING DOWN TO SPLASHY,



'90 Anadssat

ASC NUMBER: SEGMENT NUMBER: *SI004* YR CATALOGED:
LOCATION:
STREAM NAME: *Big Fort Creek* LATITUDE:
KODIAK K-UNIT: LOCAL STREAM #: LONGITUDE:
USGS QUADRANGLE: LEGAL:
SHORELINE TYPE: *Lagoon* WAVE EXPOSURE: *Low*

ASC NUMBER: *251-81-10090*
SURVEY TYPE: *AS*
METHOD: *F*
DATE: *5/1/90*
START TIME: *1105*
STOP TIME: *1220*

TEAM RECORDER: *E. Weiss*
OBSERVERS: *K. Larson, K. Critchlow, D. Yoes*
M. Goodwin
AGENCY (IES): *ADF&G/wwc/Exxon/ADNR*

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>350m</i>	<i>1.5m</i>	<i>525</i>	<i>5</i>	<i>N/A</i>	<i>Ø</i>	<i>MS</i>
SITE 2							
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT: *VL*

OIL IN STREAM CHANNEL?

SUBSTRATE

Bedrock	Granule
Boulder <i>25</i>	Sand
Cobble <i>35</i>	Silt
Pebble <i>40</i>	Veget.

OIL ON BEACH WITHIN 50M OF STREAM MOUTH?

SPECIES	<i>N/A</i>				
COUNT	<i>N/A</i>				

COMMENTS: *Recommend manual pickup*
(for map-sheet)

ADF&G MULTI-ASSESSMENT FORM
1991 GENERAL ENTRY CHECKLIST

STREAM#: 2518210090
SEGMENT: SI014

PAGE 33

DATE PRINTED: 07/25/91

LOCATION: SHUYAK ISLAND, ANDREAN BAY

SURVEY TYPE: 90 ANADSSAT

METHOD: FOOT

DATE: 05/01/90

TEAM RECORDER: WEISS

START TIME: 1105

OBSERVERS: LARSON CRITCHLOW YOE
GOODWIN

END TIME: 1220

TIDES: -0-

AGENCY: FG WWC EXX DNR

OG/HAB DISCREPANCIES: -

PHOTOS TAKEN: N

STATION: 2518210090

ROLL#: -0-

FRAME: -0-

VIDEO TAKEN: N

TAPE#: -0-

START: -0-

END: -0-

SAMPLES TAKEN: N

SAMPLE NUMBERS: -0-

-0-

-0-

-0-

-0-

-0-

OIL IN STREAM BED: -

OVERALL OIL IMPACT: VL

OIL ON BEACH BY MOUTH: -

WAVE EXPOSURE: LOW

SHORELINE TYPE: LAGOON

SUBSTRATE TYPE: BEDROCK -0- BOULDER 25 COBBLE 35 VEGETAT -0-

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

ANADROMOUS FISH PRESENT: ~~N~~ - ~~0~~

SPECIES: -0-

COUNT: -0-

-0-

-0-

-0-

-0-

-0-

-0-

-0-

-0-

ADF&G MULTI-ASSESSMENT FORM
1991 OILING ENTRY CHECKLIST

PAGE 33

DATE PRINTED: 07/26/91

STREAM# : 2518210090
SEGMENT#: SI014

SURVEY TYPE : 90 ANADSSAT
DATE: 05/01/90
TIMES: 1105 - 1220

LOCATION: SHUYAK ISLAND, ANDREAN BAY
TEAM RECORDER: WEISS

-- OILING EXTENT --

SITE#	SITE TYPE	DEPTH (cm)	LENGTH (m)	WIDTH (m)	AREA (m)	%	THICK (cm)	PEN (cm)	OIL TYPE CODES
1	-0-	-0-	350	1.5	525	5	-0-	0	MS

COMMENTS:

RECOMMEND MANUAL PICKUP.

(KS - from Map-sheet)



'90 Anadssat

ASC NUMBER:

SEGMENT NUMBER: SI004

YR CATALOGED:

LOCATION:

STREAM NAME: Big Foot Creek

KODIAK K-UNIT:

LOCAL STREAM #:

USGS QUADRANGLE:

SHORELINE TYPE: Lagoon

LATITUDE:

LONGITUDE:

LEGAL:

WAVE EXPOSURE: Low

ASC NUMBER: 251-82-10090

SURVEY TYPE: AS

METHOD: F

DATE: 5/1/90

START TIME: 1105

STOP TIME: 1220

TEAM RECORDER: E. Weiss

OBSERVERS: K. Larson, K. Critchlow, D. Yoes
M. Goodwin

AGENCY(IES): ADF&G/WWC/Exxon/ADNR

PHOTOS TAKEN? N

Roll #:

Frames:

VIDEO TAKEN? N Tape Number:

Counter Start:

SAMPLES TAKEN? N

SAMPLE I.D. NUMBERS: 1.
4.2.
5.3.
6.

OILING DATA

	LENGTH	WIDTH	M2	%	THICK	FEN	OIL TYPE
SITE 1	350m	1.5m	525	5	N/A	Ø	MS
SITE 2							
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT: VL

OIL IN STREAM CHANNEL?

OIL ON BEACH WITHIN 50M OF STREAM MOUTH?

SUBSTRATE

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

SPECIES	W/A				
COUNT	N/A				

COMMENTS: Recommend manual pickup

(from MND-sheet)

'90 Anadssat

ANADSSAT

ADF&G MULTI-ASSESSMENT DATA FORM

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

METHOD: Aerial Ground Boat

3 DATE: 5/1/90 15 HIGH TIDE TIMES: 1 21 TEAM RECORDER: E. WEISS
KAL LARSON, K. CATCHESW

4 START TIME: 1105 16 HIGH TIDE HTS: 1 22 OBSERVERS: DARYL YDES, M. GOODWIN

5 STOP TIME: 1220 17 LOW TIDE TIMES: 1504 23 AGENCY: ADF&G/WWC/EXXON/AMR

6 SEGMENT #: SI004 18 LOW TIDE HTS: .5 24 PHOTOS TAKEN: Y N

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

8 K-UNIT: K0101 Ebb Slack Flood Slack 25 VIDEO TAKEN: Y N TAPE#:

9 STAT AREA: 20 USCG QUAD: Start: End:

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

12 SOURCE: Map Loran 011

13 LOCATION: ANDREAN BAY, SHUYAK ISLAND Sediment

14 DESCRIPTION: Biological

EXTENT OF OIL

	SHORELINE				STREAM				
	L	W	M ²	%	L	W	M ²	%	
27 SURFACE COVERAGE	250	1-2		3%	100	1		5%	
28 SURFACE THICKNESS									
29 PENETRATION	SURFACE				SURFACE				
30 OVERALL OIL IMPACT:	N	<u>VL</u>	L	M	H				
31 OIL TYPE:	Pooled	<u>Mousse</u>	Tar	Asphalt	Sticky	Stain			
32 OILED DEBRIS?	Y	N	Where:						
33 SHORELINE TYPE:	Headland	<u>Low-lying Rocks</u>	Beach	Cove					
		<u>Lagoon</u>	Marsh						
34 WAVE EXPOSURE:	High	Moderate	<u>Low</u>						
35 SUBSTRATE TYPE:	Bedrock	Boulder	<u>25</u>	Cobble	<u>35</u>				
	Gravel	<u>40</u>	Sand	Mud/silt					

36 CATALOGED ANAD. FISH SREAM? N

37 CATALOG #: 251-81-10090

38 STREAM NAME: BIG FORT CREEK

39 OIL IN STREAM BED? Y N

40 OIL ON STREAM BANKS? N

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

42 OIL WITHIN 1 MILE OF STREAM? Y N

43 ANADROMOUS FISH PRESENT? Y N

44 ANADROMOUS FISH OBSERVATION

Species	Aerial	Ground

COMMENTS: SPORADIC SPLASHES/PATTIES AROUND SOUTH BANK OF LAGOON
BAND ~ 350 M X 1.5 M <10% COVERAGE WITHIN BAND
BAND IS SPORADIC AT BEST RANGING DOWN TO SPLASHY,

RECOMMEND: MANUAL PICKUP

ACE 1852258

No joint
comment -
agreement -
Recommend.?

45 PHOTOLOG

FRAME(S)	DESCRIPTION

46 OIL DISTRIBUTION DIAGRAM

SEE OG'S SSAT REPORT SKETCH

= Sample taken
 = Photo frame # and
 shot direction.

ACE 1852259

STATE OF ALASKA

DEPARTMENT OF FISH AND GAME

STEVE COWPER, GOVERNOR

Rapifax 349-1723

333 RASPBERRY ROAD
ANCHORAGE, ALASKA 99513-1599
PHONE: (907) 344-0541

KODIAK - ANAD SCA

R-0101

RAPIFAX TRANSMITTAL SHEET

TO: Kia Middleton
Anch HabitatDATE: 5/8/90No. Pages: 9
(including this page)FROM: S. Barnhart
Kodiak HabitatMESSAGE: Big Fort Creek Andrean Bay, Shuyak Island
AFS 251-R1-10090ALASKA DEPT. OF
FISH & GAME

MAY 08 1990

REGION II
HABITAT DIVISION

ACE 1852275+15

18/25

FIELD SHORELINE COMMENT SHEET

ASC# (BIG FORT)

SEGMENT ST 1 SZ-004 SUBDIVISION: 251-81-10090 DATE 01 MAY 90USCGNAME Kerwin L. Dreher SIGNATURE CWO K. L. Dreher☒ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTED~~ADEC~~ ~~ADFG~~NAME EDWARD W. WEISS SIGNATURE Edward W. Weiss☐ NO TREATMENT RECOMMENDED
COMMENTS☒ TREATMENT SUGGESTEDMANUAL PICKUP OF TRAPBILLS/POTRIES ON SOUTH SIDE
OF LAGOON UPPER TRAIL AREA RECOMMENDED.~~LAND MANAGER~~ ~~ADNR~~NAME Mike [Signature] SIGNATURE [Signature]☐ NO TREATMENT RECOMMENDED
COMMENTS☒ TREATMENT SUGGESTED

This segment contains state lands proposed for future inclusion into Shuyak Island state park and is an area of high recreational potential as well as providing wildlife habitat. Recent sign of brown bear, deer and one active eagle were observed. Also observed approximately 1/2 mi. south of this stream was an estimated 400' of yellow boom partially adrift. This was left from Exxon cleanup activities during the summer of 1989. Manual pick up of trapbills on south side of lagoon. The recommended treatment is manual pick up of trapbills.

See Back for Instructions

DATE 5-1-90
NAME NARRAJ JOSE
TEAM # 14

TEAM # 14

SUBSURFACE OIL

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

GENERAL

Snow covering 0 % of the Supratidal Zone?

Wave Exposure H / M / L

Access Limitations: GOOD ACCESS - LONG SHALLOW RAIL

Snare Boom/Pom Poms Recommended? *NO*

Would the production Craft have to be relocated to complete work on this subdivision? ☒ N, # of Times 1

COMMENTS:

COMMENTS: NO TREATMENT RECOMMENDED ON THIS AHEAD STREAM
PASTIES ARE VERY SPARIC IN UPPER TIRAL ZONE. THEY ARE WEATHERING
AND APPER TO POS NO THIRNT TO FISH OR WILDLIFE. TREATMENT WOULD
NOT RESULT IN NET ENVIRONMENTAL GAIN.

20/25

ANAD

SSAT DATA ENTRY FORM

PAGE 1 OF 2

GENERAL DATA

SEG ID: SI-004 SUBDIV: 251-81 TEAM: 14 SURVEY DATE: 5/1/90
PAVEMENT: CHAR — AREA — THICKNESS — TARBALLS X
OILED: LGS — VEG — TRH — DBR — WAVE EXP: LW X MD — HG —
FAX RCVD: — DT: — AGENCY DISAGREE: —
EST SUBDIV LGTH: 60 OIL CATEGORY: W — M 2 N — VL 168 NO — U —

SURFACE DATA

SURFACE SEDIMENT: BRK — BLD 10 COB 40 PEB 30 GRN 20 SAN — 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: MS OIL DIST: CONT — BRKN X PTCH — SPLH X
OIL CLR: DBR FILM CLR: TL TIDAL ZONE: SU — UI X MI — LI —

CHAR #: 3 OIL CHAR: PT OIL DIST: CONT — BRKN — PTCH — SPLH X
OIL CLR: DBR FILM CLR: TL TIDAL ZONE: SU — UI X MI — LI —

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

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

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

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

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

24/25

No Pts Dug

ANAD

SUBSURFACE DATA

PAGE 2 OF 2

SEGMENT ID: SI-004 SUBDIV: 251-81
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 1852279

SHORELINE OILING SUMMARY (ANAD)

P. 6/9 22/25
REVISION NO. 5013/90

OG CAL LARSON USCG DREHER, CWE SEGMENT ST/ SI 004
 BIO KEN CRITCHLOW LAND REP MIKE GOODWIN STREAM 251-BL 10090 (1 OF 2)
 EXXON DARLHL YOE ADFG ED WEISS TIME 11:30 10/12/15
 TEAM NO. 14 TIDE LEVEL +0.5 FT DATE 5/1/90
 EST. SUBDIVISION LENGTH: 100 m ☐ Sun ☐ Clouds ☐ Fog ☒ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☐ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R 0 % B 10 % C 40 % P 30 % G 20 % S 0 % M 0 % V 0 %
 SLOPE: Lang 60 % Hang 30 % Vert 10 % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 2 m N 0 m VL 108 m NO 0 m

SURFACE OIL

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

PAVEMENT H F S 0 sq. m by 0 cmPATTIES / TARBALLS 3 BAGSNEAR SHORE SHEEN? ☒ NO BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

Did You Collect DEBRIS NO?TYPE NO#BAGS 0

Photographs:

Roll No. 0Frames 0

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-DM)	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	TL	TL	TL	SU	U	M	LI			

COMMENTS NO PITS DUG DUE TO LACK OF OIL PENETRATION.REVIEWED 0 DATE 0

ACE 1852280

SEGMENT ST/ SI 004

STREAM 251-8-10090

DATE 5 / 1 / 90

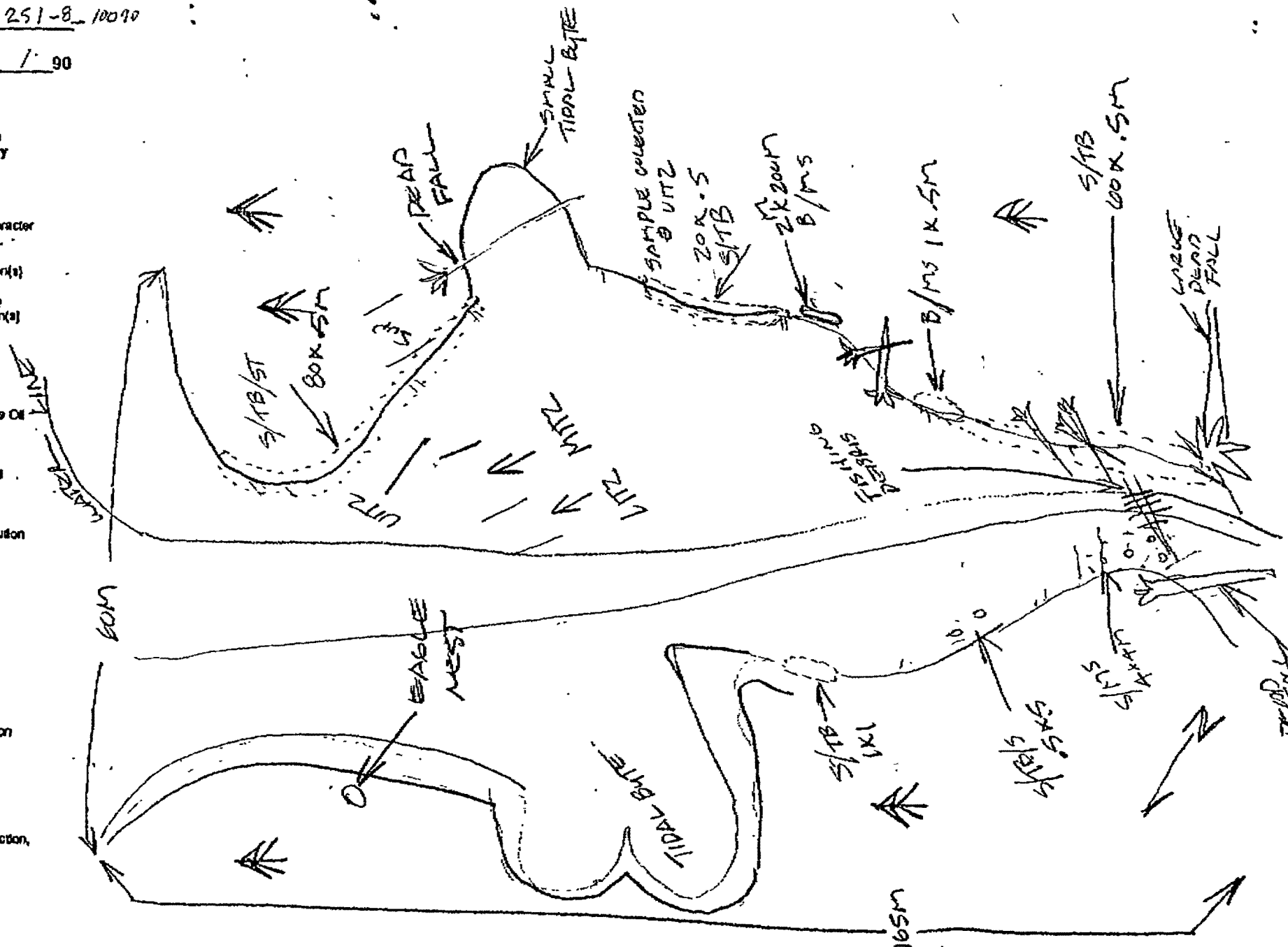
CHECKLIST

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

LEGEND

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

SKETCH MAP



Oil Character Length (m): AP PO CV CT ST 20 MS 74 PT TB 74 FL NO

REVISION: 03/24/90

ACE 1852281

MAY 08 '90 11:38 DEPTAARAAAAA

2A/25

Seg ID: SI-004 Subdiv: 251-81-10090
Survey Date: 5/1/90
Comments by: Ken Critchlow

This site was lightly oiled along the upper edge of the UITZ. Tarballs, patties and stool were commonly observed along the south side of the stream. Tarballs were occasionally observed on the north side of the stream.

The intertidal biota, while healthy and unoiled, was not particularly abundant. The oiled substrate was only populated by a few bittorinids.

The only apparent ecological constraints would be the presence of an active bald eagle nest on the north bank of the stream. Cleanup activity would certainly disturb the birds.

KR Critchlow

25/25

ANADSSAT

ADFG MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS SS DS TS AVS SCHA MMS PTA2 REGION: PWS KP,CI KAPMETHOD: Aerial Ground Boat3 DATE: 5/1/9015 HIGH TIDE TIMES: 121 TEAM RECORDER: F. WEISS4 START TIME: 110516 HIGH TIDE HTS: 122 OBSERVERS: KAL LARSON, K. CRITCHFIELD5 STOP TIME: 122017 LOW TIDE TIMES: 130423 AGENCY: ADFG/WWC/EXXON/BM6 SEGMENT #: SI00418 LOW TIDE HTS: .524 PHOTOS TAKEN: Y X

7 STATION #: _____

19 TIDE HT AT SURVEY: _____

Roll #: _____ Frame: _____

8 K-UNIT: K0101Ebb Slack Flood Slack25 VIDEO TAKEN: Y X TAPES: _____

9 STAT AREA: _____

20 USCG QUAD: _____

Start: _____ Ends: _____

10 LAT: _____

11 LONG: _____

26 SAMPLES TAKEN Y X Number12 SOURCE: Map Loran13 LOCATION: ANDREAN BAY, SHUYAK ISLAND

14 DESCRIPTION: _____

Oil _____

Sediment _____

Biological _____

Water _____

EXTENT OF OIL

	SHORELINE				STREAM			
	L	W	M ²	%	L	W	M ²	%
27 SURFACE COVERAGE	250	1-2		3%	100	1		5%

28 SURFACE THICKNESS

29 PENETRATION

30 OVERALL OIL IMPACT: N VS L M H31 OIL TYPE: Pooled House Tar Asphalt Sticky Stain32 OILED DEBRIS? Y N33 SHORELINE TYPE: Headland Lagoon Low-lying Rocks Beach Cove34 WAVE EXPOSURE: High Moderate Low35 SUBSTRATE TYPE: Bedrock _____ Boulder 25 Cobble 35Gravel 40 Sand _____ Mud/silt _____36 CATALOGED ANAD. FISH SKEIN? Y N37 CATALOG #: 251-81-1009038 STREAM NAME: BIG FORT CREEK39 OIL IN STREAM BED? Y X40 OIL ON STREAM BANKS? X N41 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 N44 ANADROMOUS FISH OBSERVATION
Species Aerial Ground

COMMENTS: SPORADIC SPLASHES/PATTIES AROUND SOUTH BANK OF LAGOON
BAND ~ 350 M X 1.5 M < 10% COVERAGE WITHIN BAND.
E BAND IS SPORADIC AT BEST RANGING DOWN TO SPLASHY.

TAG
5/23/90
KRM

RECEIVED
MAY 19 1990

DEPT. OF
ENVIRONMENTAL CONSERVATION

ANADROMOUS FISH STREAM ASSESSMENT

REGION: KODIAK

SEGMENT: ST/SI-014¹²¹⁻¹

SUBDIVISION: A

STREAM NO: 251-82-10090

SHUYAIK IS.
Big Fort Creek
(Anderson Bay)

Concur KRM 5/22/90

ACE 1852266+15

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/SI-014 ^{K1-1} STREAM NO: 251-82-10090 DATE 5/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
5T All Bald Eagle nests (3/1 to 6/1)
Active Bald Eagle nests (3/1 to 9/1)

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

ARCHAEOLOGICAL CONSTRAINTS:

If 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 tarballs and patties as indicated on attached sketch map. Consult ADF&G (regarding stream) and USFWS (regarding eagle nest) for appropriate work window.

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____
EXXON _____
NOAA _____
USCG _____

FOSC: _____ DATE: _____

KODIAK ECOLOGICAL CONSTRAINTS

- 1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
 1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
 No disturbance of stream bed or banks unless authorized by ADF&G. No beach flushing into stream drainage.
 No bioremediation or other chemical application within 100m of stream. Contact ADF&G Habitat Division prior
 to treatment for permits.
- 1C Salmon fry nursery area (4/31 to 7/31)
- 1D Kotai Bay Hatchery release
 Pink salmon - late May, early June; Chum salmon - June; Sockeye salmon - early July.
- 1H Remote release site
- 1I Gill net area
- 1J Purse seine area
 Mainland, West side Kodiak, Shuyak & Moser/Olga Bay - 6/9 to 10/1.
 East side Kodiak, East side Afognak - 7/4 to 10/1.
- 1K Purse seine hook-off
- 1L Set net sites
 USFWS setnet uplands permit 5/15 to 9/15.
- For Codes 1C through 1L contact ADF&G for specific dates, locations and constraints.
- 2M Herring spawning (4/15 to 6/30)
 Restrict boat traffic to essential minimum. Avoid damage to unholed intertidal and subtidal algae and seagrass.
 Contact ADF&G for specific dates and locations.
- 3N, 3P Harbor seal and sea lion pupping (5/10 to 6/30)
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m
 horizontal and 300m vertical distance from haulouts.
- 3O, 3Q Harbor seal and sea lion molting (8/15 to 9/15)
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m
 horizontal and 300m vertical distance from haulouts.
- 5R Seabird colony (5/1 to 8/31)
 Restrict air traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m
 vertical distance. Contact ADF&G and USFWS prior to treatment.
- 5S Shorebird/waterfowl concentration (4/1 to 5/15)
 Restrict all activity to essential minimum, especially air traffic.
- 5T All Bald Eagle nests (3/1 to 6/1)
 Active Bald Eagle nests (3/1 to 9/1)
 Restrict air traffic to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from
 and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to
 treatment for confirmation of dates.
- 6U Recreation: Tent sites (6/1 to 9/15)
- 6V Anchorages (6/1 to 9/15)
- 6W Forest Service cabins (6/1 to 9/15)
- 6X Lodge (6/1 to 9/15)
- 6Y Special use destination
- 7Z Subistence area: Salmon harvesting (6/1 to 9/30)
- 7HH Finfish harvesting
- 7II Deer harvesting (8/1 to 1/7)
- 7JJ Invertebrate harvesting
- 7KK Bear harvesting (4/1 to 5/15 and 10/25 to 11/30)
 For Codes 7Z through 7JJ contact ADF&G and Chenega Corporation for specific dates, locations, and constraints.

FIELD SHORELINE COMMENT SHEET

18/25

SEGMENT ST / 014 51-004 SUBDIVISION: ASC# (BIG FORT) 251-82-10090 DATE 01 MAY 90

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

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED
COMMENTS

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

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED
COMMENTS

MANUAL PICKUP OF TABLETS/PATTIES ON SOUTH SIDE OF LAGOON UPPER TAPL AREA RECOMMENDED.

~~LAND MANAGER~~ ~~ADNR~~
NAME Michael J. [Signature] SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED
COMMENTS

This segment contains state lands proposed for future inclusion into Shuyak Island State Park and is an area of high recreational potential as well as providing wildlife habitat. Recent sign of brown bear, deer and one active eagle were observed. Also observed approximately 1/2 mi. south of this stream was an estimated 400' of yellow boom partially adrift. This was left from Exxon cleanup activities during the summer of 1989. Manual pick up of tablets

ACE 1852269

SHORELINE OILING SUMMARY (ANAO)

22/25
REVISION NO. 04/12/90

OG CAL LARSON USCG DREHER, CWE SEGMENT ST/ SI 604
 BIO KEN CRITCHLOW LAND REP MIKE GOODWIN STREAM 251.02 NO 901 / OF 1
 EXXON DARLHL YVES ADFG ED. WEISS TIME 11:30 10/2/15
 TEAM NO. 14 TIDE LEVEL +5.5 FT DATE 5/1/90
 EST. SUBDIVISION LENGTH: 60 m ☐ Sun ☐ Clouds ☐ Fog ☒ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☐ Forest ☐ Rock
 SURVEYED FROM: 12 Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R 10 % B 10 % C 40 % P 30 % G 20 % S 0 % M 0 % V 0 %
 SLOPE: Lang 60 % Hang 30 % Vert 10 % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 2 m N 0 m VL 100 m NO 0 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	10	20	30	40	50	60	70	80	90	100	110	120	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 cmPATTIES / TARBALLS 3 BAGSNEAR SHORE SHEEN? NO BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

Did You Collect DEBRIS
☐ YES ☒ NOTYPE 0#BAGS 0

Photographs:

Roll No. 0Frames 0

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		UD	UC	50	60	70	80	90	100	110	120	SU	U	M	U				

COMMENTS NO PITS DUE DUE TO LACK OF OIL PENETRATION.REVIEWED 1/10DATE 5/3/90.

ACE 1852270

STREAM 251-82-10090

DATE 5 / 1 / 90

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

LEGEND

1 Δ

FX - No Subsurface Oil

2 
 P1- Subsurface Oil

CT/C
Continuous Distribution

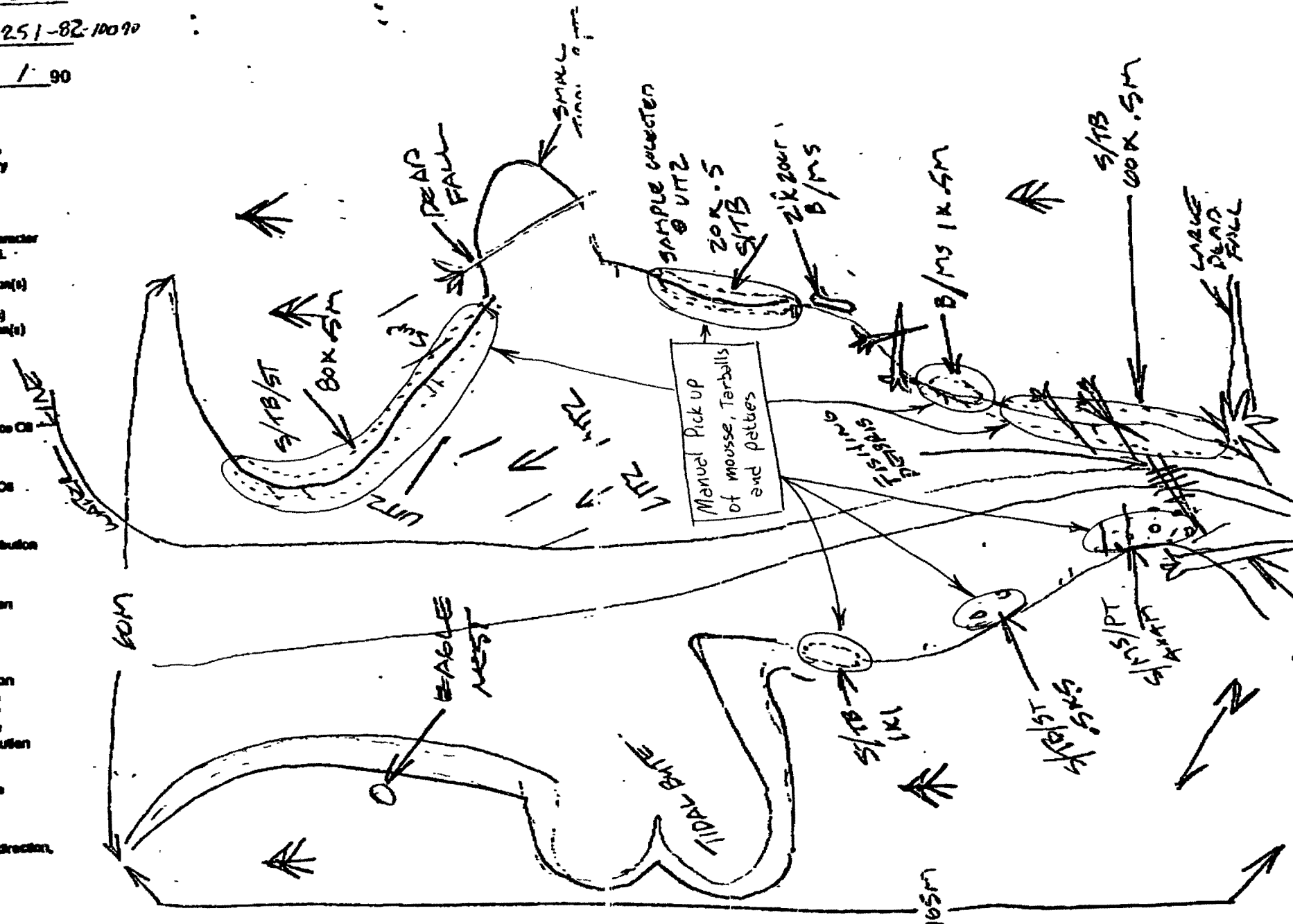
CT/D
Broken Distribution

CT/P
Patchy Distribution

CT/S
Splashed Distribution

eee
Oard Vegetation

Photo location, direction,
and number



OS Character Length (m): AP _____ PO _____ CV _____ CT _____ ST 20 MS 74 PT _____ TB 74 FL _____ NO _____

ACE 1852271

WEYBURN, ORE., Dec. 24 (AP)—

25/25

ANADSSAT

ADFG MULTI-ASSESSMENT DATA FORM

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

METHOD: Aerial Ground Boat

3 DATE: 5/1/90 18 HIGH TIDE TIMES: 1 21 TEAM RECORDER: F. Weiss

4 START TIME: 1105 19 HIGH TIDE HTS: 1 22 OBSERVERS: KAL LARSON, K. CATCHLOW

5 STOP TIME: 1220 17 LOW TIDE TIMES: 1504 23 AGENCY: ADFG/WWC/EXXON/A

6 SEGMENT #: SI004-14 16 LOW TIDE HTS: .5 24 PHOTOS TAKEN: Y

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

8 K-UNIT: K0101 Ebb Slack Flood Slack 25 VIDEO TAKEN: Y TAPE#: _____

9 STAT AREA: _____ 20 USCG QUAD: _____ Starts: _____ Ends: _____

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

12 SOURCE: Map Loran 011 _____

13 LOCATION: ANDREAN BAY, SHUYAK ISLAND Sediment _____

14 DESCRIPTION: _____ Biological _____

Water _____

EXTENT OF OIL

	SHORELINE				STREAM				
	L	M	H	N	L	M	H	N	
27 SURFACE COVERAGE	250	1-2		3%	100	1		5%	
28 SURFACE THICKNESS									
29 PENETRATION	SURFACE				SURFACE				
30 OVERALL OIL IMPACT:	N	<u>Y</u>	L	M	H				
31 OIL TYPE:	Pooled	<u>Mousse</u>	Tar	Asphalt	Sticky	Stain			
32 OILED DEBRIS?	Y	N							
33 SHORELINE TYPE:	Headland	<u>Lagoon</u>	Low-lying Rocks	Marsh	Beach	Cove			
34 WAVE EXPOSURE:	High	Moderate	<u>Low</u>						
35 SUBSTRATE TYPE:	Bedrock	Boulder	<u>25</u>	Cobble	<u>35</u>				
	Gravel	<u>40</u>	Sand	Mud/silt					

36 CATALOGED ANAD. FISH STREAM? Y N

37 CATALOG #: 251-87-10090

38 STREAM NAME: BIG FORT CREEK

39 OIL IN STREAM BED? Y N

40 OIL ON STREAM BANKS? Y N

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

42 OIL WITHIN 1 MILE OF STREAM? Y N

Where: _____

43 ANADROMOUS FISH PRESENT? Y N

44 ANADROMOUS FISH OBSERVATION

Species	Aerial	Ground

COMMENTS: SPORADIC SPLASHES/PATIES AROUND SOUTH BANK OF LAGOON
BAND ~ 350 M X 1.5 M < 10% COVERAGE WITHIN BAND.
BAND IS SPORADIC AT BEST RANGING DOWN TO SPLASHY,

2A/
25

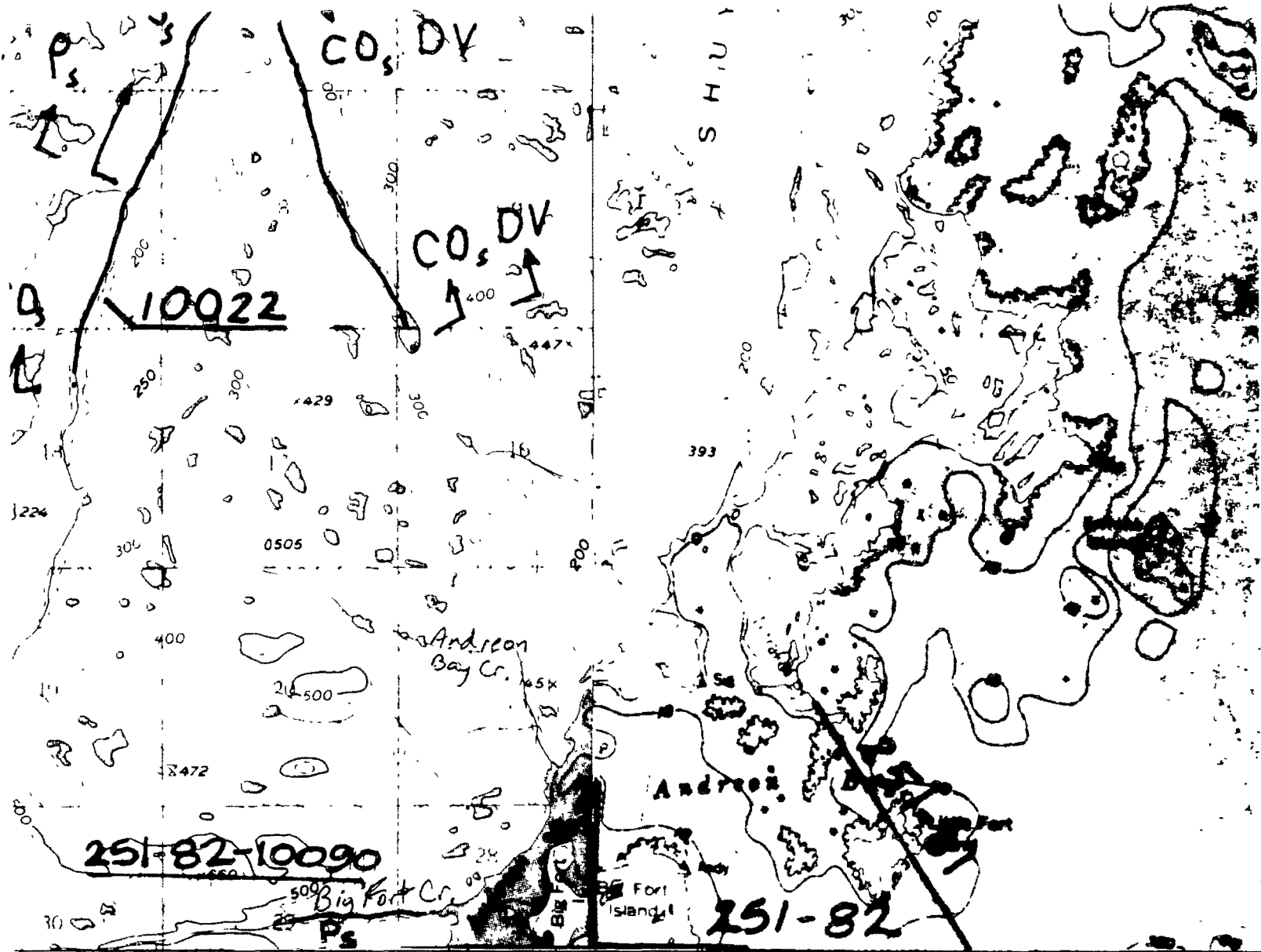
Seg ID: SI-⁰¹⁴004 Subdiv: 251-8²-10090
Survey Date: 5/1/90
Comments by: Ken Critchlow

This site was lightly oiled along the upper edge of the UITZ. Tarballs, patties and steam were commonly observed along the south side of the stream. Tarballs were occasionally observed on the north side of the stream.

The intertidal biota, while healthy and unoiled, was not particularly abundant. The oiled substrate was only populated by a few bivalves.

The only apparent ecological constraints would be the presence of an active bald eagle nest on the north bank of the stream. Cleanup activity would certainly disturb the birds.

KR Critchlow



ANADROMOUS FISH STREAM EVALUATION

*KODIAK
SHUYAK IS.*

SEGMENT ST/SI-014 ^{K1-1} STREAM NO: 251-82-10090 DATE 5/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
5T All Bald Eagle nests (3/1 to 6/1)
Active Bald Eagle nests (3/1 to 9/1)

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

ARCHAEOLOGICAL CONSTRAINTS:

If 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: *Robert J. O'Neil* DATE: 5/25/90

Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

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

COMMENTS: Recommend manual pick up of mousse tarballs and patties as indicated on attached sketch map. Consult ADF&G (regarding stream) and USFWS (regarding eagle nest) for appropriate work window.

TAG COMMENTS:

TAG APPROVAL DATE: 5/24/90.
ADEC *ART WEINER*
EXXON *ANDY GAN*
NOAA *Burt Westcott*
USCG *M. J. Hall*

FOSC: *A. Zanghi* DATE: 5/31/90

ANADROMOUS FISH STREAM EVALUATION

KODIAK
SHUYAK IS.

K1-1

SEGMENT ST/SI-014 STREAM NO: 251-82-10090 DATE 5/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

- 1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
- 1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
- 5T All Bald Eagle nests (3/1 to 6/1)
Active Bald Eagle nests (3/1 to 9/1)

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

ARCHAEOLOGICAL CONSTRAINTS:

If 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 One DATE: 5/25/90

Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

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

COMMENTS: Recommend manual pick up of mousse tarballs and patties as indicated on attached sketch map. Consult ADF&G (regarding stream) and USFWS (regarding eagle nest) for appropriate work window.

TAG COMMENTS: _____

TAG APPROVAL DATE: 5/24/90.
ADEC ART WEINER
EXXON ANDY EAR
NOAA Burt Westcott
USCG M. J. HALL

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

STREAM 251-82-10070

DATE 5 / 1 / 90

CHECKLIST

- ___ H Atmos
- ___ Approx. Scale
- ___ Seg/Sub Entry
- ___ Oil Dist.
- ___ Width
- ___ Length
- ___ % Cover
- ___ Substrate Character
- ___ Est. MYL/LWL
- ___ SSL
- ___ Profile Location(s)
- ___ Profile(s)
- ___ Pn Location(s)
- ___ Photo Location(s)

LEGEND

14

PK - No Subsurface Oil

24

PT - Subroutine On

CT/C

Continuous Distribution

CT/D

Broken Clusters

CT/P

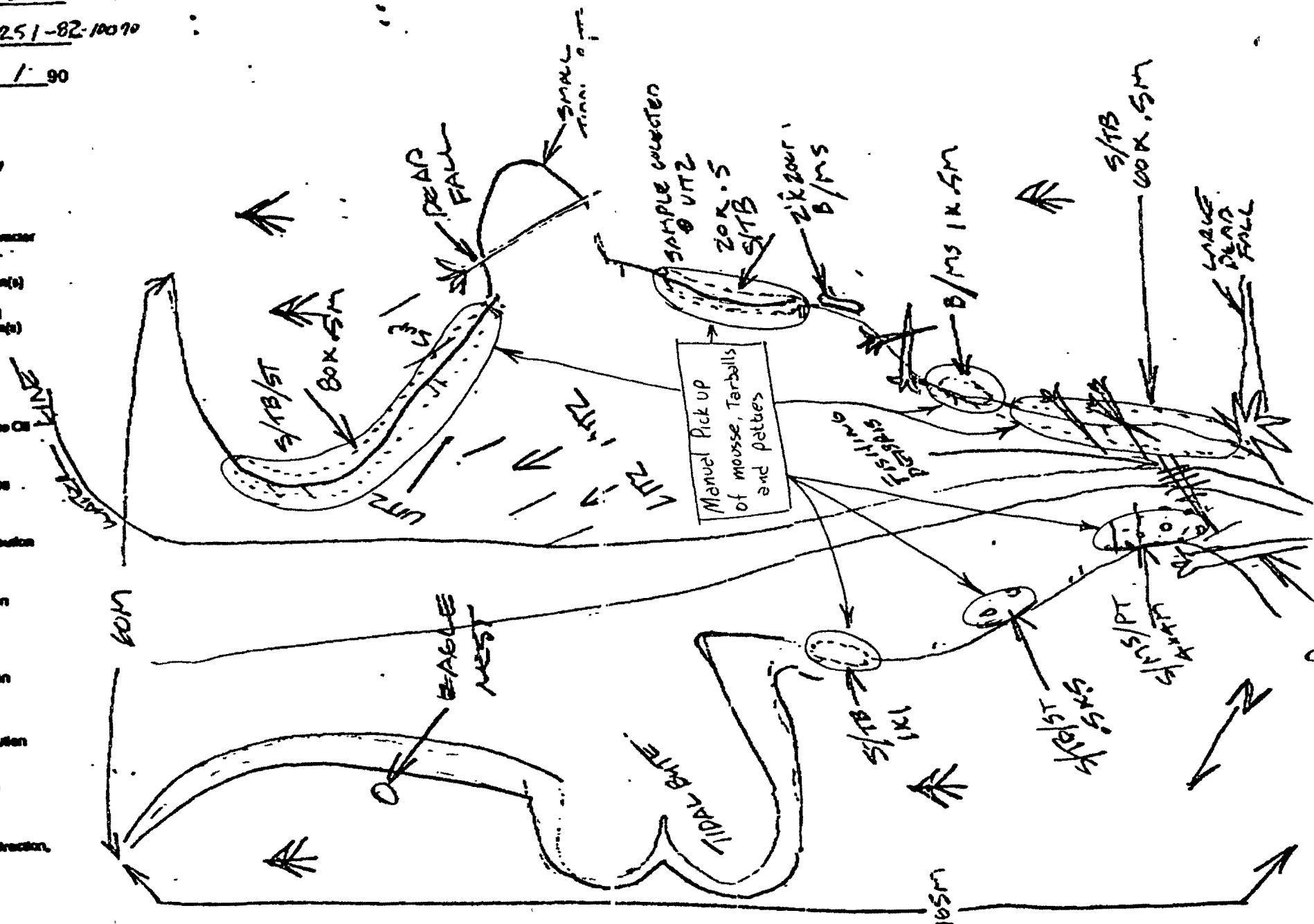
Paidy Distribution

CT5

Splashed Distribution

eee
Ond Vegetation

Photo location, direction,
and number



Oil Character Length (m): AP _____ PO _____ CV _____ CT _____ ST 20 MS 74 PT _____ TB 74 FL _____ NO _____

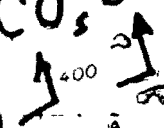
ACE 1852263

CO, DV

S H U

CO, DV

10022



429

0505

Andreev Bay Cr.

24-500

2472

251-82-10090

Big Fort Cr.

Fort Island

251-82

BM (T.M.) 32

Fort

ANADROMOUS FISH STREAM EVALUATION

Li-1
SEGMENT ST/SI-014 STREAM NO: 251-82-10090 DATE 5/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
5T All Bald Eagle nests (3/1 to 6/1)
Active Bald Eagle nests (3/1 to 9/1)

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

ARCHAEOLOGICAL CONSTRAINTS:

If 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 SanDora DATE: 5/25/90

Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

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

COMMENTS: Recommend manual pick up of mousse tarballs and patties as indicated on attached sketch map. Consult ADF&G (regarding stream) and USFWS (regarding eagle nest) for appropriate work window.

TAG COMMENTS:

TAG APPROVAL DATE: 5/24/90.
ADEC ART Weimer Art Weimer
EXXON Amy Gar Amy Gar
NOAA Bert Westcott Bert Westcott
USCG M. J. Hall M. J. Hall

FOSC: DATE:

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/SI-014 STREAM NO: 251-82-10090 DATE 5/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
5T All Bald Eagle nests (3/1 to 6/1)
Active Bald Eagle nests (3/1 to 9/1)

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

ARCHAEOLOGICAL CONSTRAINTS:

If 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 Dine DATE: 5/25/90

Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

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

COMMENTS: Recommend manual pick up of mousse tarballs and patties as indicated on attached sketch map. Consult ADF&G (regarding stream) and USFWS (regarding eagle nest) for appropriate work window.

TAG COMMENTS: _____

TAG APPROVAL DATE: 5/24/90.
ADEC ART Weimer
EXXON Amoy Tan
NOAA Burt Wesscott
USCG M. J. Kelly

FOSC: _____ DATE: _____

ADF&G MULTI-ASSESSMENT FORM
1991 GENERAL ENTRY CHECKLIST

STREAM#: 2518210090
SEGMENT: SI014

PAGE 34

DATE PRINTED: 07/25/91

LOCATION: SHUYAK ISLAND, ANDREAN BAY

SURVEY TYPE: 90 CLEANUP

METHOD: FOOT

DATE: 07/03/90

TEAM RECORDER: BARNHART

START TIME: 0900

OBSERVERS: BYARS DAVIS ELLSWORTH

END TIME: 1015

KIRKBY GOODWI

TIDES: -0-

AGENCY: FG EXX USCG DEC USFWS DNR NPS

OG/HAB DISCREPANCIES: -

PHOTOS TAKEN: N

STATION: 2518210090

ROLL#: -0-

FRAME: -0-

VIDEO TAKEN: N

TAPE#: -0-

START: -0-

END: -0-

SAMPLES TAKEN: N

SAMPLE NUMBERS: -0-

-0-

-0-

-0-

-0-

-0-

OIL IN STREAM BED: Y

OVERALL OIL IMPACT: -0-

OIL ON BEACH BY MOUTH: Y

WAVE EXPOSURE: LOW

SHORELINE TYPE: LAGOON

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

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

ANADROMOUS FISH PRESENT: ~~N~~ -0-

SPECIES: -0-

COUNT: -0-

-0-

-0-

-0-

-0-

-0-

-0-

-0-

-0-

ADF&G MULTI-ASSESSMENT FORM
1991 OILING ENTRY CHECKLIST

PAGE 34

DATE PRINTED: 07/26/91

STREAM# : 2518210090
SEGMENT#: SI014

SURVEY TYPE : 90 CLEANUP
DATE: 07/03/90
TIMES: 0900 - 1015

LOCATION: SHUYAK ISLAND, ANDREAN BAY
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-	1	1	1	1	2	0	TB
2	-0-	-0-	.5	.5	.5	1	2	0	TB
3	-0-	-0-	4	4	16	2	2	0	PT
4	-0-	-0-	60	.5	30	2	2	0	TB
5	-0-	-0-	1	.5	.5	2	2	0	MS
6	-0-	-0-	20	.5	10	5	2	0	TB
7	-0-	-0-	80	.5	40	1	2	0	TB

ADF&G MULTI-ASSESSMENT FORM
1991 OILING ENTRY CHECKLIST

PAGE 35

DATE PRINTED: 07/26/91

COMMENTS:

ACCESS DIFFICULT IN 212 HELO. ACCESS IN TWINSTAR IN NOT A PROBLEM. THREE OF THE 10 BAGS OF MATERIAL REMOVED FROM THIS SEGMENT WERE PLASTICS OF VARIOUS TYPES, SOME OILED, SOME NOT. TOTAL POUNDS OIL/OILED SEDIMENT REMOVED WAS 280 POUNDS. ALSO PRESENT WAS J. HALLER.



90 Cleanup

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

ASC NUMBER: 251-83-10090
 SURVEY TYPE: CL
 METHOD: Foot
 DATE: 7/3/90
 START TIME: 0900
 STOP TIME: 1015

TEAM RECORDER: Jeff Barnhart
 OBSERVERS: F. Byars, J. Davis, T. Elsworth, D. Kirkby,
 M. Goodwin, J. Haller
 AGENCY (IES): ADF&G/Exxon/USCG/ADEC/USF&WS/
 DNR/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	1m	1m	1	1	2cm	Ø	TB
SITE 2	.5	.5m	.5	1	2cm	Ø	TB
SITE 3	4m	4m	16	2	2cm	Ø	PT
SITE 4	60	.5m	30	2	2cm	Ø	TB
SITE 5	1m	.5	.5	2	2cm	Ø	MS

OVERALL OIL IMPACT: [REDACTED]

OIL IN STREAM CHANNEL? ☒ SUBSTRATE

OIL ON BEACH WITHIN 50M OF STREAM MOUTH? ☒

Bedrock	Granule
Boulder N/A	Sand
Cobble	Silt
Pebble	Veget.

SPECIES	N/A				
COUNT	N/A				

COMMENTS:

Access difficult in 212 hole. Access in Twin star is not a problem.
 Three of the 10 bags of material removed from this segment were plastics of various types, some oil, some not. Total pounds oil/oiled sediment removed was 280 pounds.

'90 cleanup CONT

72

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

ASC NUMBER: *251-82-10090*
 SURVEY TYPE:
 METHOD:
 DATE:
 START TIME:
 STOP TIME:

TEAM RECORDER:
 OBSERVERS:

AGENCY(IES):

PHOTOS TAKEN?

Roll #:

Frames:

VIDEO TAKEN?

Tape Number:

Counter Start:

SAMPLES TAKEN?

SAMPLE I.D. NUMBERS: 1.
 4.

2.
 5.

3.
 6.

OILING DATA

	LENGTH	WIDTH	M2	%	THICK	FEN	OIL TYPE
SITE <i>16</i>	<i>20m</i>	<i>.5 m</i>	<i>10</i>	<i>5</i>	<i>2cm</i>	<i>Ø</i>	<i>TB</i>
SITE <i>27</i>	<i>80m</i>	<i>.5m</i>	<i>40</i>	<i>1</i>	<i>2cm</i>	<i>Ø</i>	<i>TB</i>
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT:

OIL IN STREAM CHANNEL?

OIL ON BEACH WITHIN 50M OF STREAM MOUTH?

SUBSTRATE

Bedrock	Granule
Boulder	Sand
Cobble	Silt
Pebble	Veget.

SPECIES					
COUNT					

COMMENTS:

EVOS CLEANUP MONITORING, 1990.

REGION: Shuyak Island
 K-UNIT: K01-01
 SEGMENT: SI-14
 LOCATION: W of Big Fort Island
 STREAM NAME: Big Fort Creek
 ANAD. STREAM CAT. #: 251-82-10090
 ANAD. FISH STREAM PERMIT ISSUED: 7/3/90
 DATE(S) WORKED: 7/3/90
 SQUAD #: 9 Helo
 SQUAD SIZE: 6
 NUMBER OF BAGS Collected: 10

REPRESENTATIVES

Exxon: Fred Byars

USCG: Jim Davis

DEC: Terry Ellsworth

NPS: John Hatter

USFWS: Dave Kirkby

ADFG: Jeff Barnhart

OTHER: DNR Mike Goodwin

HOURS WORKED: 1.25

TOTAL MAN HOURS worked: 7.5

POUNDS OF OIL/OILED SEDIMENT REMOVED: 280

TREATMENT TECHNIQUES: MANUAL REMOVAL X BIOREMEDIATION

OTHER

OIL BANDS *

DEMOB DATE: 7/3/90	L	W	D	m ²	% oil cover	V
OIL SAMPLE #: N/A	L	W	D	m ²	% oil cover	V
OIL TYPE: PT, TB, MS	L	W	D	m ²	% oil cover	V
SUBSTRATE TYPE:	L	W	D	m ²	% oil cover	V
	L	W	D	m ²	% oil cover	V

PHOTOLOG

Roll #	FRAME #	DESCRIPTION
--------	---------	-------------

* See ADFG Multi-Assessment Data Form.

PROBLEMS: ~~1412~~ Access difficult in 212 Hole. Access in Twinstar is not a problem.

OBSERVATIONS: Three of the 10 bags of material removed from this segment were plastics of various types, some oiled, some not.

SIGNED: Jeff Barnhart

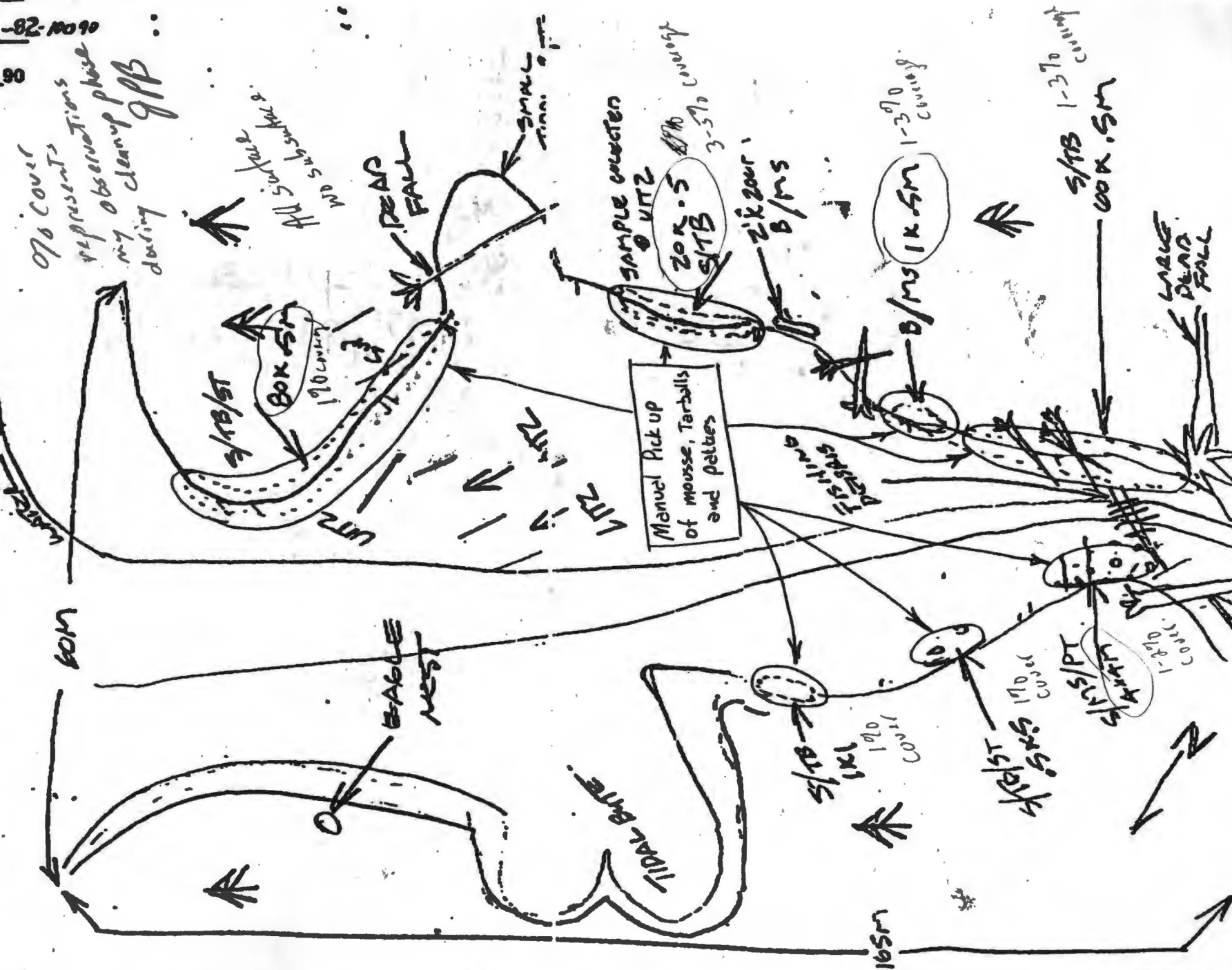
2-3/25
 SEGMENT ST/ 22 CONT
 STREAM 251-82-NO90
 DATE 5/1/90

CHECKLIST

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

LEGEND

- ☐ 1A
- Pt - No Substrate Cl
- ☐ 2A
- Pt - Substrate Cl
- ☐ CT/C
- Continuous Distribution
- ☐ CT/D
- Broken Distribution
- ☐ CT/P
- Patchy Distribution
- ☐ CT/S
- Splashed Distribution
- ☐ lll
- Dead Vegetation
- ☐ 100
- Photo location, direction, and number



Character Length (m): AP PO CV OT ST 20 MS 7A PT TB 7A FL NO

~~#225~~ 7/3/90 Big Fort creek KI-1 SI-14

Mike Goodling + Fred Byers arrived. Approx 9:30 Am. via
Twinstar.

~~data~~ Dave Kirby USFWS, Terry Ellsboth DEC, John Haller NPS,
Jim Davis USCG. + myself arrived Big Fort creek via R12
helicopter 9:00 Am.

work started: 9:15 Am stop 10:15 Am.

Cleanup complete. 2 bags oil sediment + 3 bags oiled & unoiled
plastic.

See Field copy of w/o for details on oiling.

JLB

27 27 3
~~80~~ ~~6~~ ~~9~~

86
6
 5080
9
 5360
 31360

7/5/90 7:00 AM To ICP. Zeeux work orders.

In 509EH 8:05 briefing. Crew: Dave Kirkby, USFWS, Terry Ellsworth DEC, John Haller NPS, Jim Davis USCG.

weather CAVU. Depart Kodiak Airport 8:30 AM.

Land 9:00 AM. Big Fort creek KI-1

SI-014. Stop work 10:15. Had to evacuate

beach using Twin Star due to tide coming

in. Cleanup complete. No. Bags Total 13 odd things

Also Fred Burns & Mike Goodwin picked up plastic bags & pump as indicated on KI-1 SI013 work order.

Depart Big Fort Island Stop area 10:30 AM

Land Cape Creek 11:30 AM. Coast

crew start 12 noon. Found 30x50 area at Forker

Stream 20% coverage. Total width of band 6.5m x 10m

5-10% coverage surface moss Tan talk/pettos. Same

in Forker Stream. Salmon fry in Forker Stream

photo taken. Other notes on Final sheet of work

order. Done work 4:30 pm. Staging bags with

helicopter. 109 40 pound sack

Depart 5:10 pm. Land Kodiak Airport 5:10 pm

Planning / paperwork done 6:10 pm

7/1/90 Start 7:30 AM End 9:30 PM

office work. catch up on paper work.

no lunch break. called Middleton

ACE 1852303

7/2/90 Start 7:20 AM Load gear drive to ICP

Flight planning with Fred Byars. Drive to office.

Paper work F&T to Ken. Call Ken 11:00 AM Drive to

ICP. 11:40 in helicopter Briefing. Depart 11:55

Kodiak Airport. Fred Byars (Exxon) Ross (Friend of
Fred's) Randy Reed (DEC) Dave Kirkby (F&T)

Jim Davis (USCB) & myself. Red Tide observed
in Anton Larsen bay. Same location as last
week. Mid way up The Bay on The east side.

Land Red Fox 12:35 PM.

Crew start 1:00 PM Drove 2:20 PM - 3 - 40 personal
bags. Depart Red Fox 2:45 PM. Red Fox creek

Land 2:55 PM SI 12 is located in the S.W. corner
Beach segment. worked up Red Fox Bay, Ategua
on this segment then Island. AFS 251-55-10045

took a look at SI 14. no problem with the eagle

NEST. ITD South of Big Fort Creek. Tide Tag

high to Lands so. no work. Sky Super sacks
to old buildings at postvaline. Depart 8:10 PM.

Arrive Kodiak Airport 8:40 PM Dinner with
Middleton 1 hr. Stop work 11:30 PM

ACE 1852304

Kodiak to Big Fort creek.

EXXON FLIGHT PLAN

1. AIRCRAFT TAIL NUMBER: N509EH DATE: 7-3-90
2. AIRCRAFT COLOR: Red/Black/White TYPE AIRCRAFT: B212
3. TOTAL NUMBER OF PEOPLE ON BOARD (INCLUDING CREW): 6
4. DEPARTURE POINT: ADQ KODIAK ETD: 0800
5. ROUTE OF FLIGHT (SHOW ALL WAYPOINTS): D → PETRIKOV POINT →
CAPE CHINIAK → KODIAK
6. FINAL DESTINATION: KODIAK ETA: 1900
7. FUEL ON BOARD: 2 HRS + 40 MINUTES
8. ANTICIPATED DELAYS (WAYPOINT/TIME): Spent the day all day
at/near ~~PETRIKOV~~ PETRIKOV POINT
9. COMPLETE MANIFEST AND ATTACH OR USE FORM BELOW: ☒ (check complete)
10. DRAW ROUTE WITH DIRECTION ARROWS AND ATTACH: ☒ (check complete)
11. EXECUTE IDEMNIFICATION AGREEMENT IF REQUIRED (reference page F-4) ATTACH. REQUIRED? YES ☐ NO ☒
12. FAX (266-6471) COMPLETE FLIGHT PLAN AND ATTACHMENTS TO TRANSPORTATION FOLLOWING OR CALL (266-6582). IF DELAYED MORE THAN 30 MIN., AMEND ETD..

NAME	COMPANY	WEIGHT	BAG WT	DESTINATION
FRED BEARS	EXXON	235	0	ADQ
JOHN HALLER	NPS	"		
TERRY ELLSWORTH	ADEC	"		
JIM DAVIS	USCG	"		
LARRY GOODWIN	DAIR	"		
DAVE KIRKBY	USFWS			
JEFF BERNHART	NAFAC			

PILOTS NAMES:

LARRY FULKERSON

TOTALS

TOTAL PASS & BAGGAGE

0

75

ACE 1852293

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
Anch. Habitat

DATE: 5/8/90

No. Pages: 9
(including this page)

FROM: J. Barnhart
Kodiak Habitat

MESSAGE: Big Fort Creek, Andrean Bay, Shuyak Island
AFS 251-81-10090

ACE 1852329-HS

FIELD SHORELINE COMMENT SHEET

18/25

ASC# (BIG FORT)

SEGMENT ST / SI-004 SUBDIVISION: 251-81-10090 DATE 01 MAY 90

USCG

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

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

~~ADEC~~ → ~~ADNR~~ ADFG

NAME EDWARD W. WEISS SIGNATURE Edward W. Weiss

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

MANUAL PICKUP OF TRASH/POTTIES ON SOUTH SIDE OF LAGOON UPPER DAM AREA RECOMMENDED.

~~LAND MANAGER~~ → ~~ADNR~~

NAME Mike Cozzolino SIGNATURE Mike Cozzolino

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

This segment contains state lands proposed for future inclusion into Shugak Island State Park and is an area of high recreational potential as well as providing wildlife habitat. Recent sign of brown bear, deer and one active eagle were observed. Also observed approximately 1/2 mi. south of this stream was an estimated 400' of yellow boom partially adrift. This was left from Exxon cleanup activities during the summer of 1989. Manual pick up of trash and potties on south side of Lagoon is the recommended treatment.

ACE 1852330

OPERATIONS FIELD NOTES

See Back for Instructions

19/25

SEGMENT ID ANAD SE-004 (BIG FORT CREEK)
 STREAM ID # 251-81-10090
 ANNOTATED MAP INCLUDED Y10

DATE 5-1-90
 NAME DARAIL JOES
 TEAM # 14

SURFACE OIL	Quantities in Meters			Treatment Recommendation						
	Length	Width	Area	None	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 FOUND								
Area #2									
Area #3									
Area #4									
Sporadic Mats									

MANUAL PICKUP	Type of Debris			In Meters		# of Bags	Pickup Y/N	Manday Estimate
	Mousse Tarballs	Oiled Veget	Cleanup Debris	Length	Width			
*Pocket #1	✓			80	0.5	<1	✓	—
*Pocket #2	✓			20	0.5			
*Pocket #3	✓			2	20 CM			
Random/Continuous	✓			1	0.5			
POCKET 4				60	0.5			

OILED LOGS	Y10	OILING	H/M/L	QUANTITY	L/M/S	BURN	Y/N	
------------	-----	--------	-------	----------	-------	------	-----	--

Is there Other Debris on the Beach? Y10 How Many Bags? 2 Is it mingled with the Oiled Debris Y/N

GENERAL Snow covering 0 % of the Supratidal Zone?
 Wave Exposure H/M/L Access Limitations: GOOD ACCESS - LONG SHALLOW BAY
 Snare Boom/Pom Poms Recommended? NO
 Would the production Craft have to be relocated to complete work on this subdivision? Y/N, # of Times 1

COMMENTS: NO TREATMENT RECOMMENDED ON THIS ANAD STREAM.
PATTIES ARE VERY SPARADIC IN UPPER TIDAL ZONE. THEY ARE WEATHERING
AND APPEAR TO POSE NO THREAT TO FISH OR WILDLIFE. TREATMENT WOULD
NOT RESULT IN NET ENVIRONMENTAL GAIN.

20/25

ANAD
SSAT DATA ENTRY FORM

PAGE 1 OF 2

GENERAL DATA

SEG ID: SI-004 SUBDIV: 251-81 TEAM: 14 SURVEY DATE: 5/1/90
PAVEMENT: CHAR — AREA — THICKNESS — TARBALLS X
OILED: LGS — VEG — TRH — DBR — WAVE EXP: LW X MD — HG —
FAX RCVD: — DT: — AGENCY DISAGREE: —
EST SUBDIV LGTH: 60 OIL CATEGORY: W — M 2 N — VL 168 NO — U —

SURFACE DATA

SURFACE SEDIMENT: BRK — BLD 10 COB 40 PEB 30 GRN 20 SAN — 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: MS OIL DIST: CONT — BRKN X PTCH — SPLH X
OIL CLR: DBR FILM CLR: TL TIDAL ZONE: SU — UI X MI — LI —

CHAR #: 3 OIL CHAR: PT OIL DIST: CONT — BRKN — PTCH — SPLH X
OIL CLR: DBR FILM CLR: TL TIDAL ZONE: SU — UI X MI — LI —

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

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

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

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

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

$$\frac{24}{25}$$

PAGE 2 OF 2

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

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

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

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

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

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

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

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

PROBLEMS: _____

ACE 1852333

SHORELINE OILING SUMMARY (ANAD)

24/25
REVISION NO. 041390

OG CAL LARSON USCG DREHER, CWE SEGMENT ST/ SI 004
 BIO KEN CRITCHLOW LAND REP MIKE GOODWIN STREAM 251-81 10090 (1 OF 1)
 EXXON DARLUL YOE ADFG ED WEISS TIME 11:30 to 12:15
 TEAM NO. 14 TIDE LEVEL +0.5 FT DATE 5 / 1 / 90
 EST. SUBDIVISION LENGTH: 60 m ☐ Sun ☐ Clouds ☐ Fog ☒ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R 30 % B 10 % C 40 % P 30 % G 20 % S 0 % M 0 % V 0 %
 SLOPE: Lang 60 % Hang 30 % Vert 10 % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 2 m N 0 m VL 100 m NO 0 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR					IMPACTED ZONES			
	C	B	P	S	SL BL	DEL RW	GY	SL DBR	TL LGR	SU	UI	M	LI
ASPHALT PAVEMENT													
POOLED													
COVER													
COAT													
STAIN				✓		✓					✓		
MOUSSE	✓	✓		✓				✓			✓		
PATTIES				✓				✓			✓		
TARBALLS				✓	✓	✓					✓		
FILM													
NO OIL										✓		✓	✓

PAVEMENT H F S 0 sq. m by 0 cmPATTIES / TARBALLS 3 BAGSNEAR SHORE SHEEN? ☒ NO BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

Did you COLLECT DEBRIS?
☐ YES ☒ NO

TYPE _____

#BAGS _____

Photographs:

Roll No. _____

Frames _____

SUBSURFACE OIL

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

COMMENTS NO PITS DUG DUE TO LACK OF OIL PENETRATION.

REVIEWED _____ DATE _____

ACE 1852334

STREAM 251-8-10090

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 ▲

P11 - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

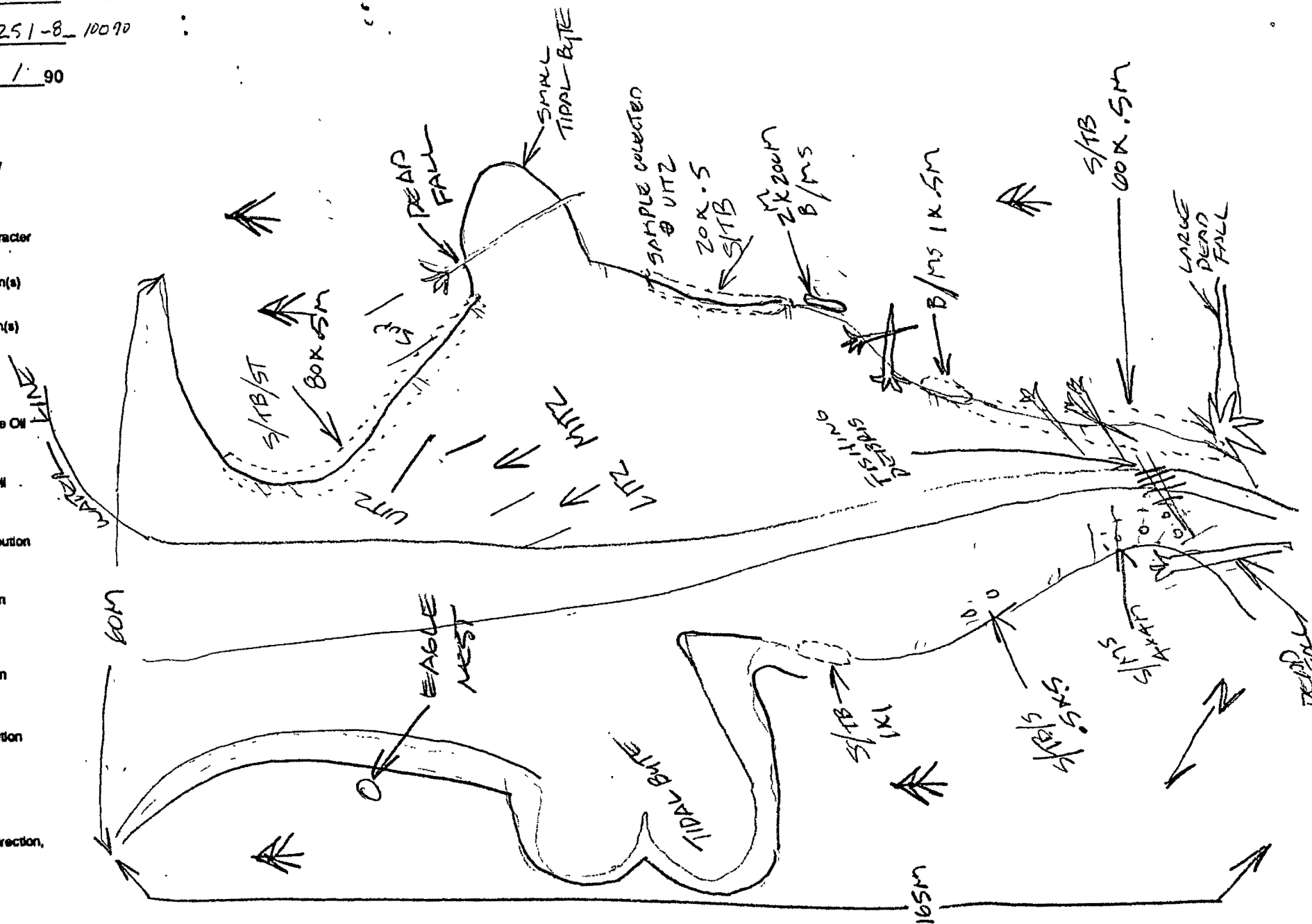
CT/P

Patchy Distribution

CT/5

Splashed Distribution

Oiled Vegetation

Photo location, direction,
and number

REVISION:03/24/00

CU Character Length (m): AP _____ PO _____ CV _____ CT _____ ST 20 MS 74 PT _____ TB 74 FL _____ NO _____

ACE 1852335

2A/25

Seg ID: SI-004 Subdiv: 251-81-10090

Survey Date: 5/1/90

Comments by: Ken Critchlow

This site was lightly oiled along the upper edge of the UITZ. Tarballs, patties and stern were commonly observed along the south side of the stream. Tarballs were occasionally observed on the north side of the stream.

The intertidal biota, while healthy and unmoiled, was not particularly abundant. The oiled substrate was only populated by a few bittorinids.

The only apparent ecological constraints would be the presence of an active bald eagle nest on the north bank of the stream. Cleanup activity would certainly disturb the birds.

KR Critchlow

ADF&G MULTI-ASSESSMENT DATA FORM

ANADSSAT

25/25

1 SURVEY TYPE: BS GS DS TS AVS SCHA MMS PTA2 REGION: PWS KP, CI K APMETHOD: Aerial Ground Boat3 DATE: 5/1/9015 HIGH TIDE TIMES: 121 TEAM RECORDER: F. WEISS4 START TIME: 110516 HIGH TIDE HTS: 122 OBSERVERS: KAL LARSON, K. CRITCHLOW5 STOP TIME: 122017 LOW TIDE TIMES: 150423 AGENCY: ADFG/WWC/EXXON/BAM6 SEGMENT #: SI00418 LOW TIDE HTS: .524 PHOTOS TAKEN: Y ✓

7 STATION #: _____

19 TIDE HT AT SURVEY: _____

Roll #: _____ Frame: _____

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

9 STAT AREA: _____

20 USCG QUAD: _____

Start: _____ End: _____

10 LAT: _____

11 LONG: _____

26 SAMPLES TAKEN? Y ✓ Number

12 SOURCE: Map Loran

13 LOCATION: ANDREAN BAY, SHUYAK ISLAND

14 DESCRIPTION: _____

EXTENT OF OIL

	SHORELINE				STREAM			
	L	W	M ²	%	L	W	M ²	%
27 SURFACE COVERAGE	250	1-2		3%	100	1		5%

28 SURFACE THICKNESS

29 PENETRATION

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

32 OILED DEBRIS? Y N

33 SHORELINE TYPE: Headland Lagoon Low-lying Rocks Beach Cove34 WAVE EXPOSURE: High Moderate Low35 SUBSTRATE TYPE: Bedrock _____ Boulder 25 Cobble 35Gravel 40 Sand _____ Mud/silt _____36 CATALOGED ANAD. FISH SREAM? ✓ N37 CATALOG #: 251-81-1009038 STREAM NAME: BIG FORT CREEK39 OIL IN STREAM BED? Y ✓40 OIL ON STREAM BANKS? ✓ N41 OIL ON BEACH ADJACENT TO MOUTH? ✓ N
(within 50 meters)

42 OIL WITHIN 1 MILE OF STREAM? Y N

Where: _____

43 ANADROMOUS FISH PRESENT? Y N

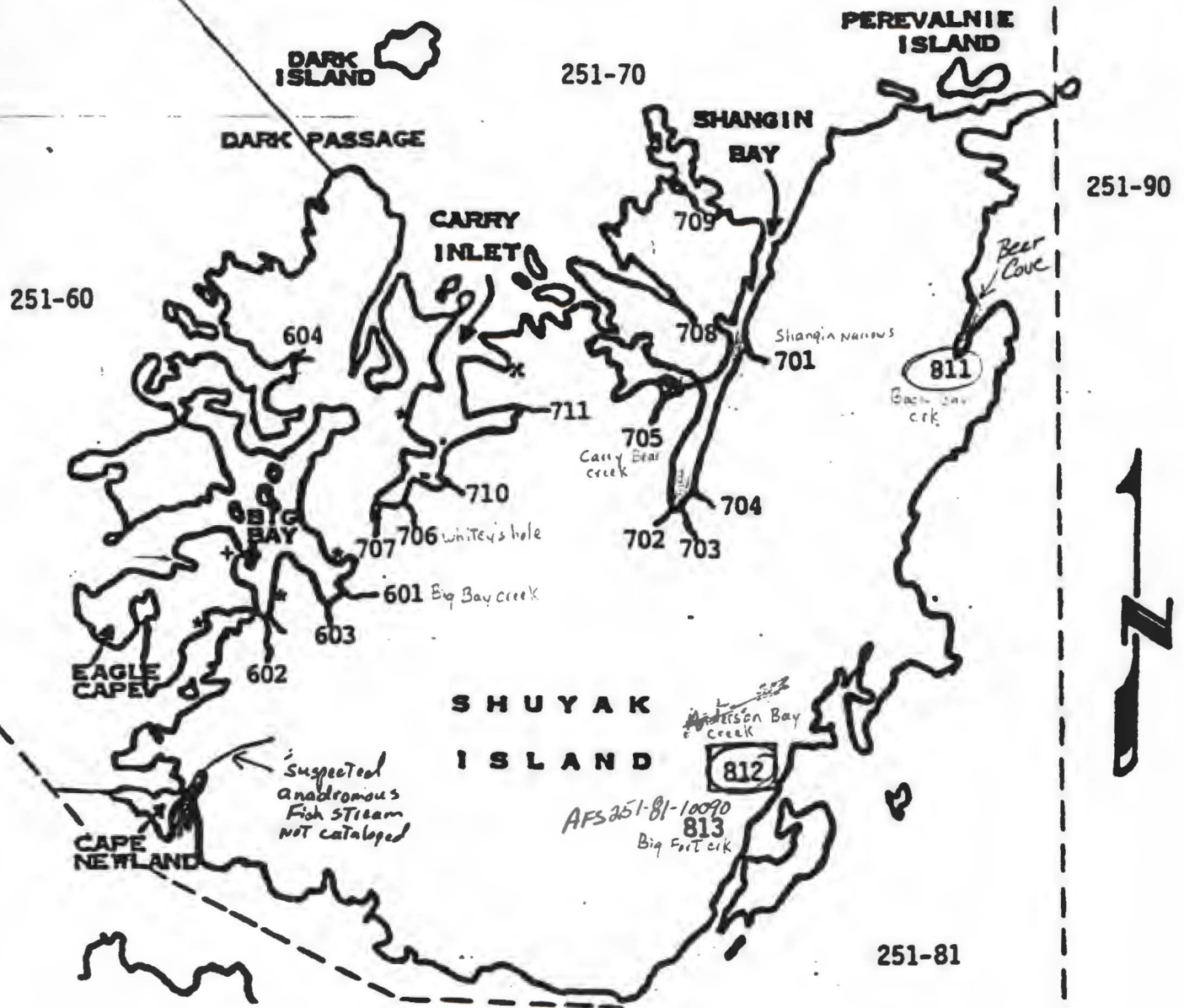
44 ANADROMOUS FISH OBSERVATION
Species Aerial Ground

COMMENTS: SPORADIC SPLASHES/PATTIES AROUND SOUTH BANK OF LAGOON
BAND ~ 350 M X 1.5 M < 10% COVERAGE WITHIN BAND.
1 BAND IS SPORADIC AT BEST RANGING DOWN TO SPLASHY,

ACE 1852337-14/6/HF

AFOGNAK DISTRICT

SHUYAK ISLAND SECTION (ENLARGED)



Double check
The ASF #'s on 812 & 813
Then send note/map
to Dick Husel.

— = moderate
— = heavy

STATE OF ALASKA

DEPARTMENT OF FISH AND GAME

STEVE COWPER, GOVERNOR

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

EXXON Valdez Oilspill Cleanup

Anadromous Fish Stream Authorization

Date 7/30/90^{91B} 7/3/90

EXXON Authorized Representative Fred D BYARS

Shoreline Segment K1-1 SI-014 Shuyak Island

Anadromous Fish Stream Number(s) 251-82-10092^{91B}

Big Fort Creek

Approved Cleanup Techniques Manual pickup of mussels
Tarballs and patties.

Approved Cleanup Period 7/30/90 - 7/10/90

Alaska Department of Fish and Game

Jeffrey P. Barnhart
Authorized Officer

Fred D. Byars
Permittee's Signature

ACE 1852292

OPERATIONS DAILY REPORT SQUAD 9 - SEATRADER/HELICOPTER

FROM: T. TOMBLIN
TO: VESSEL COMMAND NETWORK
FAX No: (907) 295-6490

DATE OF WORK

7/3/90

WORK HOURS: START

1200

TO:

2230

WEATHER CONDITIONS:

TIDES: HIGH 15.3
LOW 2.5

Wind Speed (Knts) 25-35 Wave Height (Ft) 3-5

Time 0004 HIGH 12.8 Time 1257

Time 0622 LOW 6.8 Time 1807

GENERAL PC/clr

GENERAL LOCATION:

KASHIUTIC BAY

SAFETY
INCIDENTS

For Day

Fatality 0
Lost Time 0
Restricted 0
Medical Treatment 0
Total Recordable 0

(Transmit Details Separately)

SCHEDULED WORK DAY

HOURS (ex Break) -

Vessel

Helo

Working 10
Weather Downtime 0
Transit Time 2
Mechanical Downtime 0
Other: 0

VESSEL

REPRESENTATIVES NAMES

ADEC BARBARA WINKLEY

Boxon JIMMY TOMBLIN

USCG RAYMOND COLLETT

OOPS

Other RICHARD SPOMER

HELICOPTER

REPRESENTATIVES NAMES

ADEC TERRELL USWORTH

Boxon FRED SVARE

USCG JIM DAVIS

Other JEFF BARNHART BOFAC

DAVE KIRK BY USF&N

MIKE GOODWIN DNR

MANPOWER AND BILLETING STATUS (# of People)

Berthing Vessel	PAX Beds	Boxon Rops	OOPS	Agency Rops	Other	Beach Wkrs Wkg	Idle	Open Beds
Sea Trader	16	1		3	1	9		2

* COI Passenger Beds (Includes Service Personnel)

	Boat Crews
Berthing Vessels	7
LCV/Production	
Work Boats	5
TOTALS	12

Helicopter # of Workers
6

Helicopter Tail #'s
509 EH
511 EH
Work Areas
K101 SZ13
K101 SZ14
K917 CC02

VESSEL STATUS (# of Vessels)

Vessel Type	Total Assigned	In Transit	Total Working	Not Used	Mech Down	Weath Down
Berthing	1		1			
LCV/Production						
Work Boat	2		1	1		
TOTALS	3		2	1		

VESSELS ASSIGNED:

Vessel Name	Vessel Type	# People Berthed
Sea Trader	Berthing	20
KING DAVID	WORK	3
CYCLOPE	WORK	2

NEXT SQUAD MOVE: LOCATION

ALINCHAIK

DATE OF MOVE PM 7/14/90

DATE OF LAST CREW CHANGE

7/2/90

PORT FOR CREW CHANGE

KODIAK

SCHEDULED DATE FOR NEXT CREW CHANGE

7/16/90

PORT FOR CREW CHANGE

KODIAK

VISITORS (Name/Affiliation)

STATUS OF SUPPLIES/STORAGE CAPACITIES:

ASR LEFT SMALL FOOD ITEMS TOMORROW

NUMBER OILED/DEAD BIRDS FOUND 0 # Alive

OTHER*

NUMBER OILED/DEAD MAMMALS FOUND 0 # Alive

OTHER*

* Such as discovery of dead oiled birds/mammals, Archeological Artifacts, Wildlife Incidents, etc.

ACE 18523004/5

STATUS OF OPEN WORK ORDER

SQUAD 9 - HELICOPTER

DATE OF WORK 7/3/90

WORK HOURS: START 0700 TO: 1900

MANUAL AND MECHANICAL OPERATIONS

WORK STATUS									
Segment	Sub Div	Date Work Started	Date Demob Approved *	Manual Pickup	Tarment Asphalt Removal	Spot Wash	Tilling / Grading	Sto	Other Describe
K1-015113	A	7/3/90	7/3/90	100%					251-82-812
K1-015114	A	7/3/90	7/3/90	100%					251-82-10010
K9-016002	A	7/3/90	7/3/90	100%					262-15-10040

DAILY QUANTITIES						
# of Supers	# of Supers	Square	Gravel		Sto	Cords
Used	Used	Meters	Lin Kire	Sq Mtr	Lbs	Wood
Mail	Sediments	Washed	Covered	Covered	Used	Burned
5.0	0.1					
1.99						

SEGMENT	SUB DIV	DEMOB DATE	DEMOBILIZATION ACKNOWLEDGEMENT		
			USCB	ADEC	EDON
K1-015113	A	7/3/90	180	te	Paul Ryan
K1-015114	A	7/3/90	180	te	Paul Ryan
K9-016002	A	7/3/90	180	te	Paul Ryan

* 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)

STATUS CODES

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

ACE 1852301-15

TOTAL P 04

EXXON FLIGHT PLAN

- AIRCRAFT TAIL NUMBER: N504EH DATE: 7-3-90
- AIRCRAFT COLOR: Red/Black/White TYPE AIRCRAFT: B212
- TOTAL NUMBER OF PEOPLE ON BOARD (INCLUDING CREW): 6
- DEPARTURE POINT: ADQ KODIAK ETD: 0800
- ROUTE OF FLIGHT (SHOW ALL WAYPOINTS): D → PETRIKOV POINT →
CAPE CHINIAC → KODIAK
- FINAL DESTINATION: KODIAK ETA: 1900
- FUEL ON BOARD: 2 HRS + 40 MINUTES
- ANTICIPATED DELAYS (WAYPOINT/TIME): Spent the day all day
at/NEAR PETRIKOV POINT
- COMPLETE MANIFEST AND ATTACH OR USE FORM BELOW: ☒ (check complete)
- DRAW ROUTE WITH DIRECTION ARROWS AND ATTACH: ☒ (check complete)
- EXECUTE IDEMNIFICATION AGREEMENT IF REQUIRED (reference page F-4) AN ATTACH. REQUIRED? YES ☐ NO ☒
- FAX (266-6471) COMPLETE FLIGHT PLAN AND ATTACHMENTS TO TRANSPORTATION FOLLOWING OR CALL (266-6582). IF DELAYED MORE THAN 30 MIN., AMEND ETD...

NAME	COMPANY	WEIGHT	BAG WT	DESTINATION
FRED BYARS	EXXON	235	0	ADQ
JOHN HALLER	NPS	"		
TERRY ELLSWORTH	ADEC	"		
JIM DAVIS	USCG	"		
LARRY GOODWIN	DAIR	"		
DAVE KIRKBY	USF&WS			
JEFF BARNHART ^{11B}	ADFG			
FRED BYARS ^{11B}	EXXON			

PILOTS NAMES:

LARRY FULKERSON

ICE: STROIN

TOTALS

244
115

0

TOTAL PASS & BAGGAGE

175

OPERATIONS DAILY REPORT SQUAD 9 - SEATRADER/HELICOPTER

FROM: Fred BYARS
TO: VESSEL COMMAND NETWORK
FAX No: (907) 266-6490

DATE OF WORK: 7/3/90 WORK HOURS: START 0700 TO: 1900

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

SAFETY INCIDENTS

	For Day
Fatality	
Lost Time	
Restricted	
Medical Treatment	
Total Recordable	

(Transmit Details Separately)

SCHEDULED WORK DAY HOURS (ex Break) =

	Vessel	Helo
Working	12	12
Weather Downtime		9
Transit Time		3
Mechanical Downtime		
Other:		

VESEL REPRESENTATIVES NAMES

ADEC _____
Exxon _____
USCG _____
OOPS _____
Other _____

MANPOWER AND BILLETING STATUS (# of People)

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

* COI Passenger Beds (Includes Service Personnel)

HELICOPTER REPRESENTATIVES NAMES

ADEC Terry ELLsworth
Exxon Fred BYARS
USCG Jim DAVIS
Other Jeff Barnhart ADFt6
Dave Kirkby USFw
mike Goodwin DNR

	Boat Crews
Berthing Vessels	
LCV/Production	
Work Boats	
TOTALS	

Helicopter Tail #'s

509 EH
511 EH
Work Areas
K1-015113
K1-015114
K9-17 CC002

VESSEL STATUS (# of Vessels)

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

VESSELS ASSIGNED:

Vessel Name	Vessel Type	# People Berthed
Sea Trader	Berthing	

NEXT SQUAD MOVE: LOCATION CD 18, CC001 DATE OF MOVE 7/4/90

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

VISITORS (Name/Affiliation) _____

STATUS OF SUPPLIES/STORAGE CAPACITIES: _____

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

* Such as discovery of dead oiled birds/mammals, Archeological Artifacts, Wildlife incidents, etc.

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
ADF&G Habitat Div. Anch.DATE: 7/20/90No. Pages: 2
(including this page)FROM: Jeff Barnhart
ADF&G Habitat Div. Kodiak.

MESSAGE:

Corrected anadromous Fish Stream Authorization.Glen Raz Exxon Anch has This corrected version
Fred Byars Exxon Kodiak has This corrected versionThis copy ~~is~~ is For your Files.

Kodiak

File → AFS # 251-82-10090

STATE OF ALASKA

DEPARTMENT OF FISH AND GAME

STEVE COWPER, GOVERNOR

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

EXXON Valdez Oilspill Cleanup

Anadromous Fish Stream Authorization

Date 7/30/90⁹¹⁸ 7/3/90EXXON Authorized Representative Fred D BYARSShoreline Segment K1-1 ST-014 Shuyak IslandAnadromous Fish Stream Number(s) 251-82-10092⁹¹⁸Big Foot CreekApproved Cleanup Techniques Manual pickup of mussels
Tarballs and patties.Approved Cleanup Period 7/30/90 - 7/11/90

Alaska Department of Fish and Game

Jeffrey P. Barnhart
Authorized OfficerFred D. Byars
Permittee's Signature

ACE 1852286-15/FF

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

ASC NUMBER: *251-82-10090*
 SURVEY TYPE: *CL*
 METHOD: *Foot*
 DATE: *7/3/90*
 START TIME: *0900*
 STOP TIME: *1015*

TEAM RECORDER: *Jeff Barnhart*
 OBSERVERS: *F. Byars, J. Davis, T. Elsworth, D. Kirkby, M. Goudwin, J. Haller*
 AGENCY (IES): *ADF&G/Exxon/USCG/ADEC/USF&WS/DNR/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>1m</i>	<i>1m</i>	<i>1</i>	<i>1</i>	<i>2cm</i>	<i>Ø</i>	<i>TB</i>
SITE 2	<i>.5</i>	<i>.5m</i>	<i>.5</i>	<i>1</i>	<i>2cm</i>	<i>Ø</i>	<i>TB</i>
SITE 3	<i>4m</i>	<i>4m</i>	<i>16</i>	<i>2</i>	<i>2cm</i>	<i>Ø</i>	<i>PT</i>
SITE 4	<i>60</i>	<i>.5m</i>	<i>30</i>	<i>2</i>	<i>2cm</i>	<i>Ø</i>	<i>TB</i>
SITE 5	<i>1m</i>	<i>.5</i>	<i>.5</i>	<i>2</i>	<i>2cm</i>	<i>Ø</i>	<i>MS</i>

OVERALL OIL IMPACT: _____

OIL IN STREAM CHANNEL? *Y*

SUBSTRATE

Bedrock	Granule
Boulder <i>N/A</i>	Sand
Cobble	Silt
Pebble	Veget.

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

SPECIES	<i>N/A</i>				
COUNT	<i>N/A</i>				

COMMENTS:

Access difficult in 212 hole. Access in Twinstar is not a problem.
Three of the 10 bags of material removed from this segment were plastics of various types, some oiled, some not. Total pounds oil/oiled sediment removed was 280 pounds.

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

ASC NUMBER: *251-82-10090*
 SURVEY TYPE:
 METHOD:
 DATE:
 START TIME:
 STOP TIME:

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

SAMPLES TAKEN?

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

OILING DATA

	LENGTH	WIDTH	M2	%	THICK	FEN	OIL TYPE
SITE <i>6</i>	<i>20m</i>	<i>.5 m</i>	<i>10</i>	<i>5</i>	<i>2cm</i>	<i>Ø</i>	<i>TB</i>
SITE <i>2A</i>	<i>80m</i>	<i>.5m</i>	<i>40</i>	<i>1</i>	<i>2cm</i>	<i>Ø</i>	<i>TB</i>
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT:

OIL IN STREAM CHANNEL?

OIL ON BEACH WITHIN 50M OF STREAM MOUTH?

SUBSTRATE

Bedrock	Granule
Boulder	Sand
Cobble	Silt
Pebble	Veget.

SPECIES

COUNT

COMMENTS:

