

ER-007A

ASC: 226-50-16428

ELRINGTON ISLAND

ACE 1369547



- Prince William Sound -

DOCUMENTS IN STREAM FILES

ASC# _____ Segment # _____

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

____ '90 Pre-Anadscat Survey, multi-assessment form
____ '90 Anadscat Survey
____ '90 Anadromous Fish Stream Evaluation (work order)
____ '90 Anadromous Fish Stream Addendum to work order
____ '90 Shoreline Evaluation, SAT and work order for segment
____ '90 Anadromous Fish Stream Authorization, Title 16 permit
____ '90 Stream Treatment Report
____ '90 ADEC Demobilization Report for Bio
____ '90 ADF&G Oiling Condition Survey, for ASAP use (Aug. 5, 1991)
____ '90 ASAP Survey ____ ASAP Rec. ____ ADEC Rec. (Fall)
____ '90 Other Documents _____

ACE 7237417
+|F|S|I|t|FF|-|S|I|t



OFFICIAL PHOTOGRAPH ADF&G EXXON VALDEZ OIL SPILL

OFFICE: VALDEZ

DATE: 09/11/89

TIME: -0-

206-50-16428

SEGMENT#:

-0- ER007A

STATION#: -0-

LOCATION: WEST SIDE OF ELRINGTON ISLAND 16428

REASON FOR TAKING PHOTO: DOCUMENTING UNDOCUMENTED SALMON SPAWNING
SITE (148°08'13"/59°58'09"). (AERIAL PHOTO).

TAKEN BY: RICK GUSTIN

INITIALS: _____

ROLL #: 89RLG007V FRAME #: 05

EVIDENCE ID#: 10210

ACE 7237422

5



12-11 SCAT-90 ^{ATW}

ADF&G MULTI-ASSESSMENT DATA FORM

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

2 REGION: WS KP, CI X, AP

METHOD: Aerial Ground Boat

3 DATE: 4-12-90 ^{ATW}

15 HIGH TIDE TIMES: 1

21 TEAM RECORDER: _____

4 START TIME: 1129

16 HIGH TIDE HTS: 1

22 OBSERVERS: _____

5 STOP TIME: 1145

17 LOW TIDE TIMES: 1

23 AGENCY: TOM CROWE

6 SEGMENT #: ER007

18 LOW TIDE HTS: 1

24 PHOTOS TAKEN: Y N

7 STATION #: _____

19 TIDE HT AT SURVEY: _____

Roll #: _____ Frame: _____

8 K-UNIT: _____

Ebb Slack Flood Slack

25 VIDEO TAKEN: Y N TAPE#: _____

9 STAT AREA: _____

20 USCG QUAD: _____

Start: _____ End: _____

10 LAT: _____

11 LONG: _____

26 SAMPLES TAKEN? Y N Number

12 SOURCE: Map Loran

13 LOCATION: _____

14 DESCRIPTION: _____

EXTENT OF OIL

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

30 OVERALL OIL IMPACT: N VL L M H

31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain

32 OILED DEBRIS? Y N

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

34 WAVE EXPOSURE: High Moderate Low

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

36 CATALOGED ANAD. FISH SREAM? Y N

37 CATALOG #: 226-50-16428

38 STREAM NAME: _____

39 OIL IN STREAM BED? 2 N

40 OIL ON STREAM BANKS? 6 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:

TAR/ASPHALT PATCHES IN SAND

THROUGH STREAM AT UPPER INTERTIDAL

FRAME(S)

DESCRIPTION

46 OIL DISTRIBUTION DIAGRAM

ADW

226-50-16428

ER 007

TL

4/12/90



= Sample taken

= Photo frame # and
shot direction.

ASC NUMBER:

SEGMENT NUMBER:

YR CATALOGED:

LOCATION:

STREAM NAME:

KODIAK K-UNIT:

USGS QUADRANGLE:

SHORELINE TYPE:

LOCAL STREAM #:

ALL SEGMENTS:

LATITUDE:

LONGITUDE:

LEGAL: S

ASC NUMBER: 226-50-16428

SURVEY TYPE:

METHOD:

DATE: 4/12/90

START TIME:

STOP TIME:

WAVE EXPOS:

TEAM RECORDER:

OBSERVERS:

AGENCY(IES):

PHOTOS TAKEN?

Roll #:

Frames:

VIDEO TAKEN?

Tape Number:

Counter Start:

SAMPLES TAKEN?

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

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

OVERALL OIL IMPACT:

OIL IN STREAM CHANNEL?

SUBSTRATE

Bedrock	Granule
Boulder	Sand
Cobble	Silt
Pebble	Veget.

OIL ON BEACH WITHIN 50M OF STREAM MOUTH?

SPECIES					
COUNT					

COMMENTS:

12
ANADSEAT-90

ADFG MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS SS DS TS AVS SCHA MMS PTA2 REGION: PWS KP, CI K, APMETHOD: Aerial Ground Boat3 DATE: 4-26-9015 HIGH TIDE TIMES: 121 TEAM RECORDER: R. Austin4 START TIME: 155016 HIGH TIDE HTS: 122 OBSERVERS: A. Wasserman5 STOP TIME: 162017 LOW TIDE TIMES: 123 AGENCY: ADFG6 SEGMENT #: ER00718 LOW TIDE HTS: 124 PHOTOS TAKEN: Y N

7 STATION #:

19 TIDE HT AT SURVEY:

Roll #: Frame:

8 K-UNIT:

Ebb Slack Flood Slack

25 VIDEO TAKEN: Y N TAPE#: 90RL6001 555

9 STAT AREA:

20 USCG QUAD:

Start: 1241 End: 1283

10 LAT:

11 LONG:

26 SAMPLES TAKEN? Y N Number12 SOURCE: Map Loran

Oil

13 LOCATION: Elmington Jr.

Sediment

14 DESCRIPTION:

Biological

Water

EXTENT OF OIL

	SHORELINE				STREAM			
	L	W	M ²	%	L	W	M ²	%
27 SURFACE COVERAGE								
28 SURFACE THICKNESS	2-3cm							
29 PENETRATION	6-10cm							

36 CATALOGED ANAD. FISH SREAM? Y N37 CATALOG #: 226-50-16428

38 STREAM NAME:

39 OIL IN STREAM BED? Y N40 OIL ON STREAM BANKS? Y N41 OIL ON BEACH ADJACENT TO MOUTH? Y N
(within 50 meters)42 OIL WITHIN 1 MILE OF STREAM? Y N

Where:

30 OVERALL OIL IMPACT: N VL L M H31 OIL TYPE: Pooled Mousse Tap 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 Boulder 25 Cobble 10Gravel 65% Sand Mud/silt44 ANADROMOUS FISH OBSERVATION
Species Aerial Ground

COMMENTS: Small beach broken for mat upper inter tidal a Smith daminto grass areas almost towards y streamNorth bank small broken band for mat lower 1/2 of upper
inter tidal (splashed distribution) random

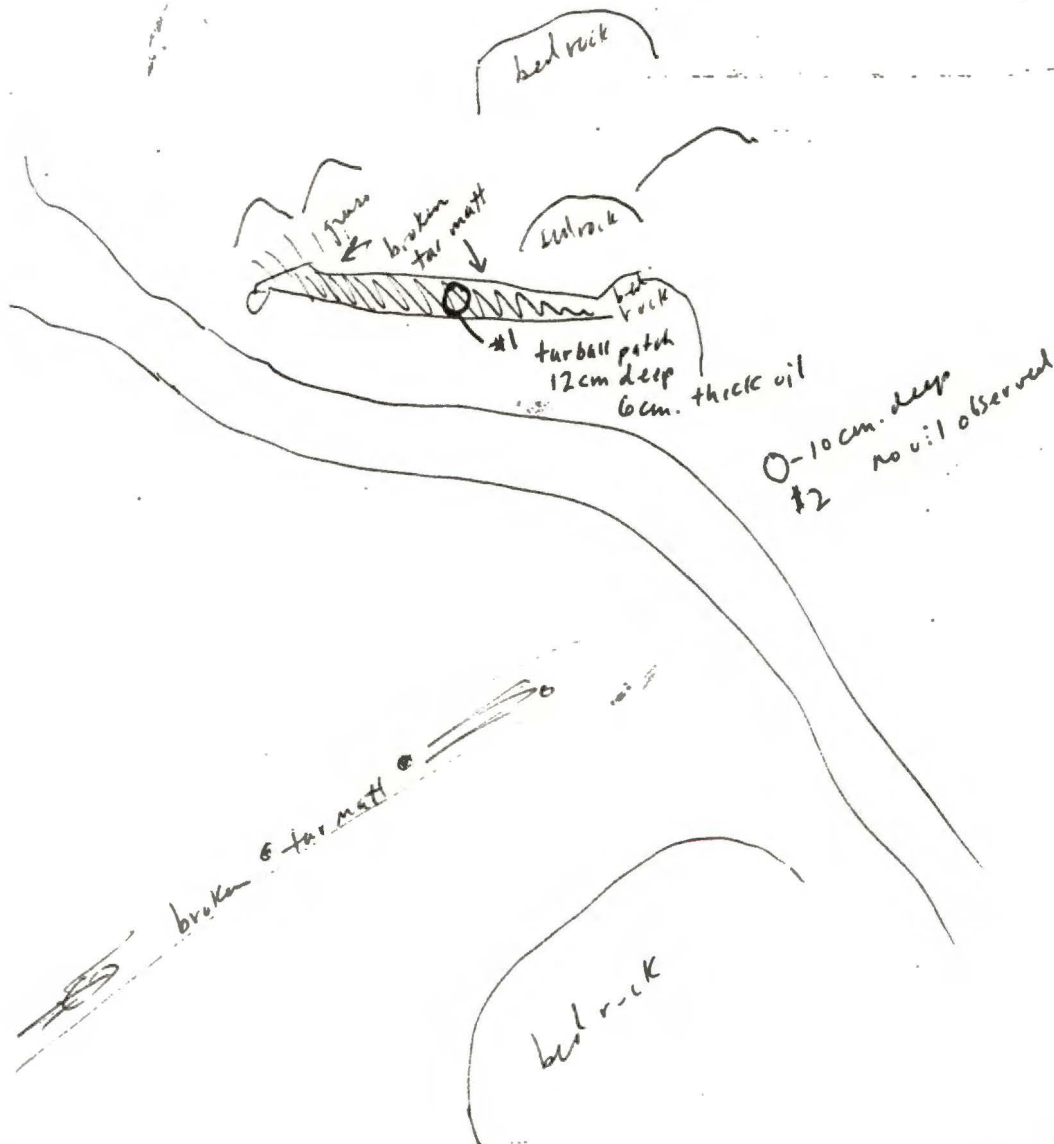
ACE 7237455+15

Frame(s)

DESCRIPTION

RecommendationsShovel removed no bio remed.Shovel remove 1 bag mussel and 1 bag of grass in
tidal zone and lower half of upper intertidal
no bioremediation recommended48 OIL DISTRIBUTION DIAGRAM

Comments by Ken Critchellaw:
I agree with ADFG recommendations KRC



ASC NUMBER:

SEGMENT NUMBER:

YR CATALOGED:

LOCATION:

STREAM NAME:

KODIAK K-UNIT:

USGS QUADRANGLE:

SHORELINE TYPE:

LOCAL STREAM #:

ALL SEGMENTS:

LATITUDE:

LONGITUDE:

LEGAL: S

ASC NUMBER: 226-50-16428

SURVEY TYPE:

METHOD:

DATE: 4/20/90

START TIME:

STOP TIME:

WAVE EXPOS:

TEAM RECORDER:

OBSERVERS:

AGENCY(IES):

PHOTOS TAKEN?

Roll #:

Frames:

VIDEO TAKEN?

Tape Number:

Counter Start:

SAMPLES TAKEN?

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

	LENGTH	WIDTH	M2	%	THICK	PEN	OIL TYPE
SITE 1							AP/TS
SITE 2							AP
SITE 3					.06	.12	TB
SITE 4							
SITE 5							

OVERALL OIL IMPACT:

OIL IN STREAM CHANNEL?

SUBSTRATE

OIL ON BEACH WITHIN 50M OF STREAM MOUTH?

Bedrock	Granule
Boulder	Sand
Cobble	Silt
Pebble	Veget.

SPECIES					
COUNT					

COMMENTS:

Rick Gustin

FWT3

June 2, 1990

ER007\ASC#226-50-16428

Elrington Is.

Work took place at this site before I arrived. Oil condition consisted of a large tarmat on the southwest side of the creek, turning into a scattered band of patties primarily in the UITZ. The opposite bank of the stream had a scattered broken band of tar patties contouring on a line corresponding to a high tide in the UITZ. Very little penetration into the substrate occurred beneath these patties. (1 to 2 cm.) The manual removal was acceptable, and no further treatment is recommended. Approximately 1/4 of a supersack of oiled gravel and vegetation was removed from the stream banks.

ACE 7237439

CATALOG NUMBER: 2265016428

STREAM NAME:

LOCATION: ELRINGTON ISLAND, SOUTHWEST END

SEGMENT NUMBER: ER007 A

SHORELINE TYPE:

DATE: 04/12/90 TIME: COVE -1145

SITE	WIDTH (m)	LENGTH (m)	AREA (sqm)	PERCENT OIL	THICKNESS (cm)	PENETRATION (cm)	SURFACE SUBSURF	OIL TYPES	COMMENTS
1							SURFACE	AP	south side of stream - tarmat
2							SURFACE	AP PT	North side of stream - asphalt patties

COMMENTS:

TAR/ASPHALT PATTIES IN BAND THROUGH STREAM AT UPPER INTERTIDAL.

STREAM BANKS: YES

MILE OF STREAM: YES

OIL ON
OIL WITHIN 1

CATALOG NUMBER: 2265016428

STREAM NAME:

LOCATION: ELRINGTON ISLAND, SOUTHWEST END

SEGMENT NUMBER: ER007 A

SHORELINE TYPE:

DATE: 04/20/90 TIME: COVE -1620

SITE	WIDTH (m)	LENGTH (m)	AREA (sqm)	PERCENT OIL	THICKNESS (cm)	PENETRATION (cm)	SURFACE SUBSURF	OIL TYPES	COMMENTS
1				11-50	6		SURFACE	AP	South side of stream - LITZ - Broken AP
2				1-10	6	15	SURFACE	AP	North side of stream LITZ - small broken band
3							SURFACE	TS	Splash

COMMENTS:

SMALL BANDS BROKEN TARMAT UPPER INTERTIDAL ON SOUTH BANK INTO GRASS AREAS ALMOST TO MOUTH OF STREAM. NORTH BANK SMALL BROKEN BAND TARMAT LOWER 2 OF UPPER INTERTIDAL (SPLASHED DISTRIBUTION) - RANDOM.

SHOVEL REMOVE, NO BIOREMEDIATION. SHOVEL REMOVE AND BAG MOUSSE PATTIES, OILED GRASSES IN UPPER INTERTIDAL, AND LOWER HALF OF UPPER INTERTIDAL. NO BIOREMEDIATION RECOMMENDED. COMMENTS BY KEN CRITCHLOW: I AGREE WITH ADFG RECOMMENDATIONS.

OIL ON STREAM BANKS: YES

WITHIN 1 MILE OF STREAM: YES

OIL

ADF&G MULTI-ASSESSMENT DATA FORM

ROWOSCATT-90

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

2 REGION: PWS KP, CI K, AP

METHOD: Aerial Ground Boat

3 DATE: 4-12-90 ATW

15 HIGH TIDE TIMES: 7

21 TEAM RECORDER:

4 START TIME: 1129

16 HIGH TIDE HTS: /

22 OBSERVERS:

5 STOP TIME: 1145

17 LOW TIDE TIMES: /

23 AGENCY: Tom Crowe

6 SEGMENT #: 22007

18 LOW TIDE HTS: /

24 PHOTOS TAKEN: Y N

7 STATION #:

19 TIDE HT AT SURVEY:

Roll #: Frames:

8 K-UNIT:

Ebb Slack Flood Slack

25 VIDEO TAKEN: Y N TAPE#:

9 STAT AREA:

20 USCG QUAD:

Start: End:

10 LAT:

11 LONG:

26 SAMPLES TAKEN? Y N Number

12 SOURCE: Map Loran

13 LOCATION:

14 DESCRIPTION:

Oil

Sediment

Biological

Water

EXTENT OF OIL

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

30 OVERALL OIL IMPACT: N VL L M H

31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain

32 OILED DEBRIS? Y N

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

34 WAVE EXPOSURE: High Moderate Low

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

36 CATALOGED ANAD. FISH STREAM? Y N

37 CATALOG #: 16428

38 STREAM NAME:

39 OIL IN STREAM BED? N

40 OIL ON STREAM BANKS? N

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

42 OIL WITHIN 1 MILE OF STREAM? Y N

Where:

43 ANADROMOUS FISH PRESENT? Y N

44 ANADROMOUS FISH OBSERVATION Species Aerial Ground

COMMENTS: TAR/ASPHALT PATCHES IN SAND

THROUGH STREAM AT UPPER INTERSECTION

ACE 7237471+15

FRAME(S)

DESCRIPTION

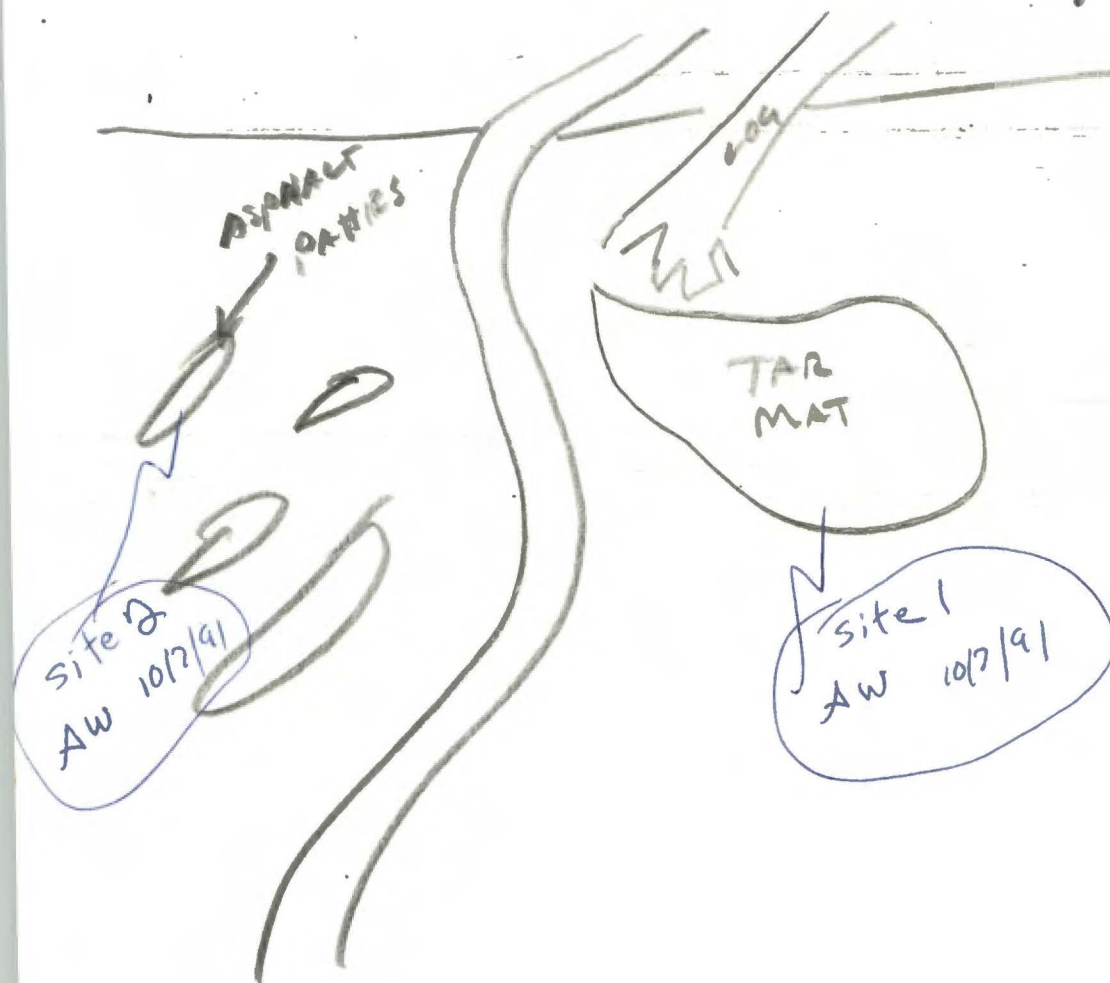
46 OIL DISTRIBUTION DIAGRAM

ADW
2.26-50-16428

RR 007

TL

4/12/90



= Sample taken
 = Photo frame # and
 shot direction.

ACE 7237472-15

CATALOG NUMBER: 2265016428 SEGMENT#: ER007 A LOCATION: ELRINGTON ISLAND, SOUTHWEST END							
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
04/12/90	PRE-ANADS CAT	1	SURFACE			AP	SOUTH SIDE: TARMAT.
04/12/90	PRE-ANADS CAT	2	SURFACE			PT	NORTH SIDE: ASPHALT PATTIES.
MAD vs. OG: COMMENTS: TAR/ASPHALT PATTIES IN BAND THROUGH STREAM AT UPPER INTERTIDAL. OIL ON STREAM BANKS.							

CATALOG NUMBER: 2265016428 SEGMENT#: ER007 A LOCATION: ELRINGTON ISLAND, SOUTHWEST END							
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
04/20/90	ANADSCAT	1	SURFACE	51-90		AP	SOUTHWEST SIDE IN UITZ: BROKEN AP.
04/20/90	ANADSCAT	2	SURFACE	11-50		AP	NORTHEAST SIDE IN LUITZ: SMALL BROKEN BAND, SPLASH.
MAD vs. OG: COMMENTS: SMALL BANDS BROKEN TARMAT UPPER INTERTIDAL ON SOUTH BANK INTO GRASS AREAS ALMOST TO MOUTH OF STREAM. NORTH BANK SMALL BROKEN BAND TARMAT LOWER HALF OF UPPER INTERTIDAL (SPLASHED DISTRIBUTION) - RANDOM. OIL ON STREAM BANKS. RECOMMENDATIONS: SHOVEL REMOVE, NO BIOREMEDIATION. SHOVEL REMOVE AND BAG MOUSSE PATTIES, OILED GRASSES IN UPPER INTERTIDAL, AND LOWER HALF OF UPPER INTERTIDAL. NO BIOREMEDIATION RECOMMENDED.							

CATALOG NUMBER: 2265016428 SEGMENT#: ER007 A LOCATION: ELRINGTON ISLAND, SOUTHWEST END							
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
04/20/90	OG'S ANADSCAT	1	10 x 10 SURFACE	1-10	2-6	AP PT	SOUTHWEST STREAM BANK IN UITZ: SPLASH OF AP/PT.

04/20/90	OG'S ANADSCAT	2	1 x 6 SURFACE	11-50		MS	NORTHEAST SIDE IN UITZ TO MITZ: PATCHY MOUSSE.
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MAD vs. OG: MAD GIVES SITE 1 GREATER COVERAGE.
COMMENTS:

CATALOG NUMBER: 2265016428		SEGMENT#: ER007 A		LOCATION: ELRINGTON ISLAND, SOUTHWEST END			SEQ:
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
04/12/90	PRE-ANADS CAT	1	SURFACE			AP	SOUTH SIDE: TAR MAT.
04/12/90	PRE-ANADS CAT	2	SURFACE			PT	NORTH SIDE: ASPHALT PATTIES.
MAD vs. OG: COMMENTS: TAR/ASPHALT PATTIES IN BAND THROUGH STREAM AT UPPER INTERTIDAL. OIL ON STREAM BANKS.							

CATALOG NUMBER: 2265016428		SEGMENT#: ER007 A		LOCATION: ELRINGTON ISLAND, SOUTHWEST END			SEQ:
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
04/20/90	ANADSCAT	1	SURFACE	<u>51-90</u>		AP	SOUTH SIDE IN UITS: BROKEN AP. <u>Southwest</u>
04/20/90	ANADSCAT	2	SURFACE	11-50		AP	NORTH SIDE IN LUITZ: SMALL BROKEN BAND, SPLASH. <u>Northeast</u>
MAD vs. OG: COMMENTS: SMALL BANDS BROKEN TARMAT UPPER INTERTIDAL ON SOUTH BANK INTO GRASS AREAS ALMOST TO MOUTH OF STREAM. NORTH BANK SMALL BROKEN BAND TARMAT LOWER HALF OF UPPER INTERTIDAL (SPLASHED DISTRIBUTION) - RANDOM. OIL ON STREAM BANKS. RECOMMENDATIONS: SHOVEL REMOVE, NO BIOREMEDIATION. SHOVEL REMOVE AND BAG MOUSSE PATTIES, OILED GRASSES IN UPPER INTERTIDAL, AND LOWER HALF OF UPPER INTERTIDAL. NO BIOREMEDIATION RECOMMENDED. COMMENTS BY KEN CRITCHLOW: I AGREE WITH ADFG RECOMMENDATIONS.							

CATALOG NUMBER: 2265016428		SEGMENT#: ER007 A		LOCATION: ELRINGTON ISLAND, SOUTHWEST END			SEQ:
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
04/20/90	OG'S ANADSCAT	1	10 x 10 SURFACE	1-10	2-6	AP PT	SOUTH STREAM BANK - UITS - SPLASH OF AP/PT. <u>Southwest</u>

04/20/90	OG'S ANADSCAT	2	1 x 6 SURFACE	11-50	MS	NORTH SIDE OF STREAM #UITZ TO MITZ : PATCHY MOUSSE. <u>Northeast</u>
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MAD vs. OG: MAD GIVES SITE 1 GREATER COVERAGE.
COMMENTS:

ADF&G MULTI-ASSESSMENT DATA FORM

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

METHOD: Aerial Ground Boat

3 DATE: 11-26-90 15 HIGH TIDE TIMES: 1 21 TEAM RECORDER: P. Gustin

4 START TIME: 1550 16 HIGH TIDE HTS: 1 22 OBSERVERS: A. Wasserman

5 STOP TIME: 1620 17 LOW TIDE TIMES: 1 23 AGENCY: ADF&G

6 SEGMENT #: ER007 18 LOW TIDE HTS: 1 24 PHOTOS TAKEN: Y (N)

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

8 K-UNIT: _____ Ebb Slack Flood Slack 25 VIDEO TAKEN: (Y) N TAPE#: 90RLG-001 555

9 STAT AREA: _____ 20 USCG QUAD: _____ Start: 1241 End: 1283

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

12 SOURCE: Map Loren OIL _____

13 LOCATION: Elmington Is. Sediment _____

14 DESCRIPTION: _____ Biological _____

Water _____

EXTENT OF OIL

	SHORELINE				STREAM				
	L	W	M ²	%	L	W	M ²	%	
27 SURFACE COVERAGE									36 CATALOGED ANAD. FISH STREAM? <u>(Y)</u> N
28 SURFACE THICKNESS	2-3cm								37 CATALOG #: <u>226-50-16428</u>
29 PENETRATION	6-10cm								38 STREAM NAME: _____
30 OVERALL OIL IMPACT:	N	VL	L	M	H				39 OIL IN STREAM BED? Y <u>(N)</u>
31 OIL TYPE:	Pooled	Mousse	<u>Tar</u> ^{mat}	Asphalt	<u>Sticky</u>	Stain			40 OIL ON STREAM BANKS? <u>(Y)</u> N
32 OILED DEBRIS?	<u>(Y)</u>	N							41 OIL ON BEACH ADJACENT TO MOUTH? <u>(Y)</u> N (within 50 meters)
33 SHORELINE TYPE:	Headland	Low-lying Rocks	<u>Beach</u>	Cove					42 OIL WITHIN 1 MILE OF STREAM? <u>(Y)</u> N
34 WAVE EXPOSURE:	High	<u>Moderate</u>	Low						Where: _____
35 SUBSTRATE TYPE:	Bedrock	Boulder <u>25</u>	Cobble <u>10</u>						43 ANADROMOUS FISH PRESENT? Y N
	Gravel <u>65%</u>	Sand	Mud/silt						44 ANADROMOUS FISH OBSERVATION
									Species Aerial Ground

COMMENTS: Small bands broken tar mat upper intertidal on South bank
into grass area almost towards y stream
North bank small broken band tar mat lower & of upper
intertidal (splashed distribution) random

FRAME(S)

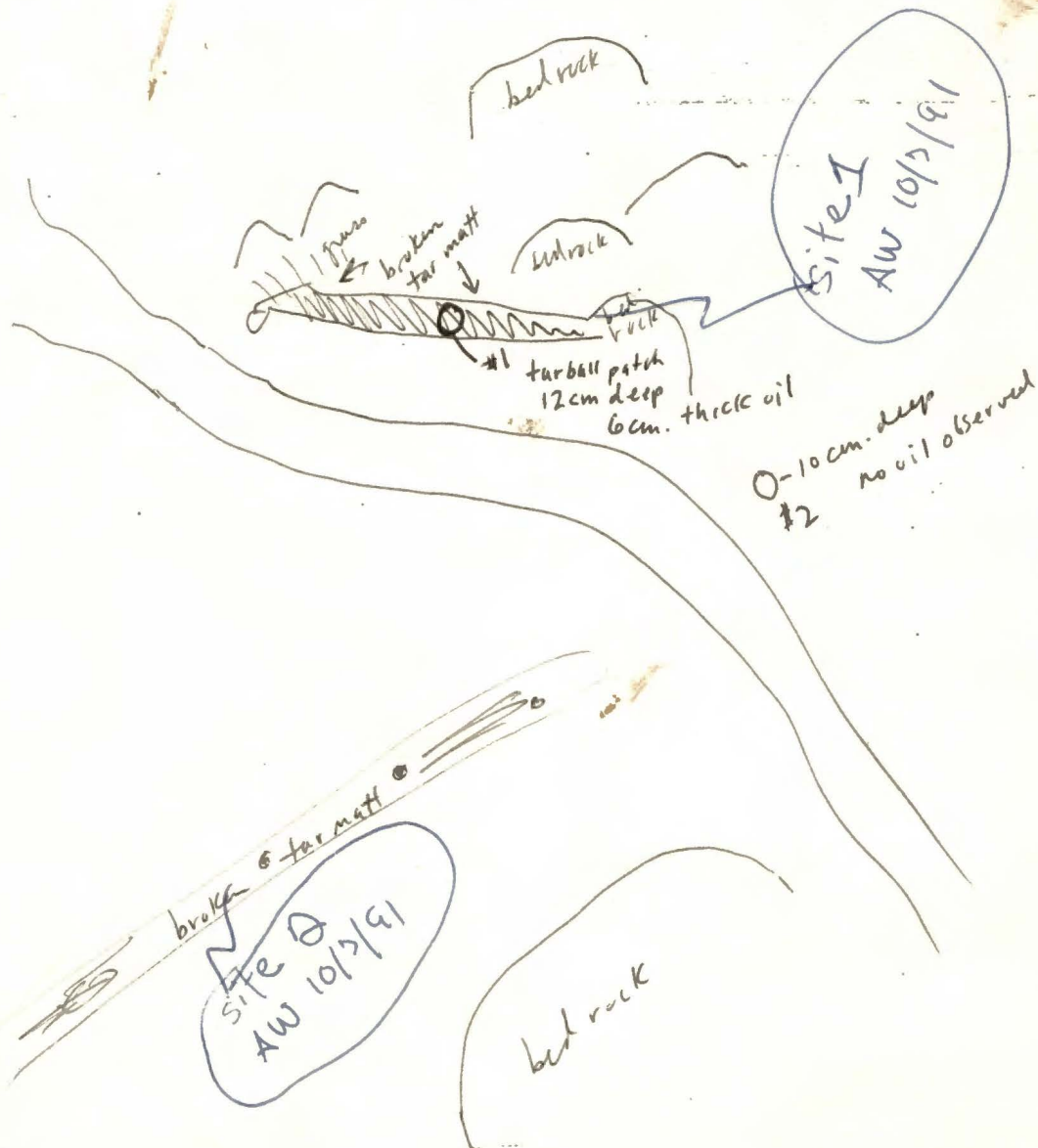
DESCRIPTION

Recommendations

Should remove no bio remed.
Should remove bag mouse paddles, oiled grasses in
upper inter tidal and lower half of upper inter tidal
no bioremediation recommended

46 OIL DISTRIBUTION DIAGRAM

Comments by Ken Critchlow:
I agree with ADFG recommendations KRC



DATE / 90

CHECKLIST

☐ N Arrow
☐ Approx. Scale
☐ Seg/Sub Brdry
☐ Oil Dist.
☐ Width
☐ Length
☐ % Cover
☐ State Character
☐ Est. HWL/LWL
☐ SSL
☐ Profile Location(s)
☐ Profile(s)
☐ Publication(s)
☐ Photo Location(s)

LEGEND

1 Δ

Pit - No Subsurface Oil

2 ▲
Pit - Subsurface Oil . .

CT/C
Continuous Distribution

CT/B
Broken Distribution

CT/P
Patchy Distribution

Patchy Distribution

CT/S
Splashed Distribution

eee
Oiled Vegetation

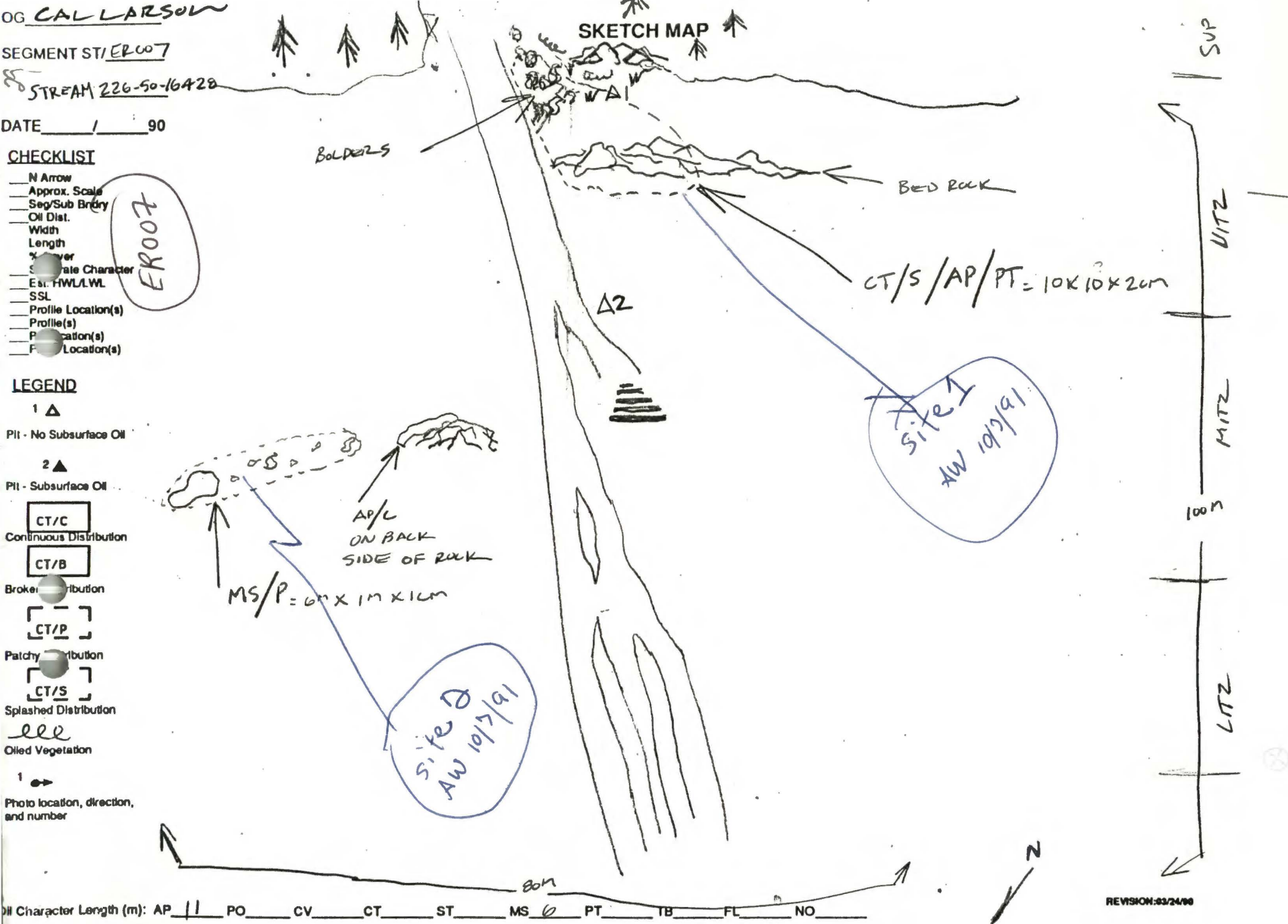
1 

Photo location, direction,
and number

Oil Character Length (m): AP 11 PO CV CT ST MS 0 PT TB FL NO

ACE 7237457

REVISION: 03/24/99



FIELD SHORELINE COMMENT SHEET

SEGMENT ST / ER-007 SUBDIVISION: ^{ASC#} 226-50-16428 DATE 4-20-90

USCG

NAME Kerwin L. Dreher SIGNATURE cwoz K. L. Dreher

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

~~ADEC~~ ADFG.

NAME Rick Gustin SIGNATURE Richard J. Gustin

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

We recommend shovel removal and bagging of mousse paddies, oiled grasses and other oiled debris where found in upper intertidal and lower half of upper intertidal + top of mid intertidal.

No bioremediation recommended

This stream consists of small bands of broken tar matt in the upper intertidal on the south bank extending into grass areas almost to the stream mouth.

~~ADFG~~ LAND MANAGER

NAME Rick Gustin SIGNATURE Richard J. Gustin

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

The north bank has small broken bands of tar matt in the lower 1/2 of upper intertidal (splashed distribution)

OG CAL LARSON USCG DREHER, CWE SEGMENT ST/ER 007 28
 BIO KEN CRITCHLL LAI REP STR M 226-50-16428 (OF)
 EXXON DARRYL YOE ADFG RICK GUSTIN-AIMEE WESEMAN TIME 15:45 to 16:15
 TEAM NO. 14 TIDE LEVEL SLR DATE 4/20/90
 EST. SUBDIVISION LENGTH: 80 m ☒ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock
 SURVEYED FROM: ☐ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R 5 % B 5 % C 45 % P 25 % G 20 % S % M % V %
 SLOPE: Long 6 % Hang % Vert % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W m M m N m VL 17 m NO m

SURFACE OIL

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

PAVEMENT H F (S) 3 sq. m by 2 cm

PATTIES / TARBALLS BAGS

NEAR SHORE SHEEN? NO BR RW SL TL

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

Did you COLLECT DEBRIS
☐ YES ☒ NO

TYPE

#BAGS

Photographs:

Roll No. 2

Frames 11-17

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM)	BELOW		OIL / FILM COLOR						PIT ZONE				A N A	SHEEN (Y/N)	SURFACE - SUBSURFACE SEDIMENTS		
		OP	OR	OL	OF	NO		UO	UC	SB BR	DB BW	GY SL	BB TL	LR	SU	U	M	L						
1	12		✓				0-6		✓	✓				✓										DUG IN TAIL PULP SP, PB, CB
2	10					✓	-		✓						✓									PB, CB, SP
							.																	
							.																	
							.																	
							.																	
							.																	

COMMENTS VERY SMALL AMOUNTS OF ASPHALT OBSERVED AT SITE.
OBSERVED ONE PIN TAIL PULK.

REVIEWED DATE

ACE 7237459

GENERAL DATA

226-50
SEG ID: ER-007 SUBDIV: 16428 TEAM: 14 SURVEY DATE: 4/20/90
PAVEMENT: CHAR S AREA 3 THICKNESS 2 TARBALLS -
OILED: LGS SM VEG SM TRH - DBR - WAVE EXP: LW X MD - HG -
FAX RCVD: - DT: - AGENCY DISAGREE: -
EST SUBDIV LGTH: 80 OIL CATEGORY: W - M - N - VL 17 NO 63 U -

SURFACE DATA

SURFACE SEDIMENT: BRK 5 BLD 5 COB 45 PEB 25 GRN 20 SAN - MUD - VEG -

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

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

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

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

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

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

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

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

SSAT DATA ENTRY FORM

SUBSURFACE DATA

PAGE 1 OF 1

SEGMENT ID: ER-007 SUBDIV: 226-50
16428

PIT # 1 PIT DEPTH 12 OIL CHARACTER OR OIL INTVAL: FROM 0 TO 6
QUANT: UC OIL CLR: DBL FLM CLR: RW ZONE: SU X UI - MI - LI -
SUBSURF SEDIMENT: BRK - BLD - COB X PEB X GRN - SAN X MUD - VEG -

PIT # 2 PIT DEPTH 10 OIL CHARACTER NO OIL INTVAL: FROM - TO -
QUANT: UC OIL CLR: - FLM CLR: - ZONE: SU - UI X MI - LI -
SUBSURF SEDIMENT: BRK - BLD - COB X PEB X GRN - SAN X MUD - VEG -

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

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

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

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

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:

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/ ER-07 STREAM NO: 226-50-16428 DATE 4/20/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
1B Salmon stream mouth - spawning (7/10 to 8/31)
1F Sawmill Bay Hatchery release (4/15 to 6/1)
6Y Recreation: Special use destination
7II Subsistence area: Deer harvesting (8/15 to 2/28)
9EE Set aside

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to unoiled biota and substrate. Subject stream is located in Subdivision A (1 of 1).

ARCHAEOLOGICAL CONSTRAINTS:

If cultural resources are uncovered during shoreline treatment, stop work in the vicinity, mark the location of the find and contact a member of Exxon's Cultural Resource Program immediately (564-3657; 564-3658 or 564-3276).

SHPO SIGNATURE: [Signature] DATE: 5/8/90Subsurface Oil Observed: Yes X No Maximum Depth 6 cm

RECOMMENDATIONS:

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

COMMENTS: Recommended treatment includes manual removal of pavement and mousse patties as indicated on sketch map. Work should be conducted between 6/1 and 7/10 based on constraints.

TAG COMMENTS: TAG APPROVAL DATE: 5/7/90ADEC Art WehnerEXXON Amy TarrNOAA Gary BlaneUSCG G.A. ReiterFOSC: [Signature] DATE: 5-15-90

ACE 7237440+1SG

5/51

OG Line 1000

SEGMENT ST/ELU07

STREAM 22650-6420

DATE 1 90

CHECKLIST

- ☐ N Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Entry
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. INVA/LVL
- ☐ SCL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ PH Location(s)
- ☐ Photo Location(s)

LEGEND

1 Δ

PH - No Subsurface Oil

2 Δ

PH - Subsurface Oil

CT/C

Continuous Distribution

CT/D

Broken Distribution

CT/P

Patchy Distribution

CT/S

Splashed Distribution

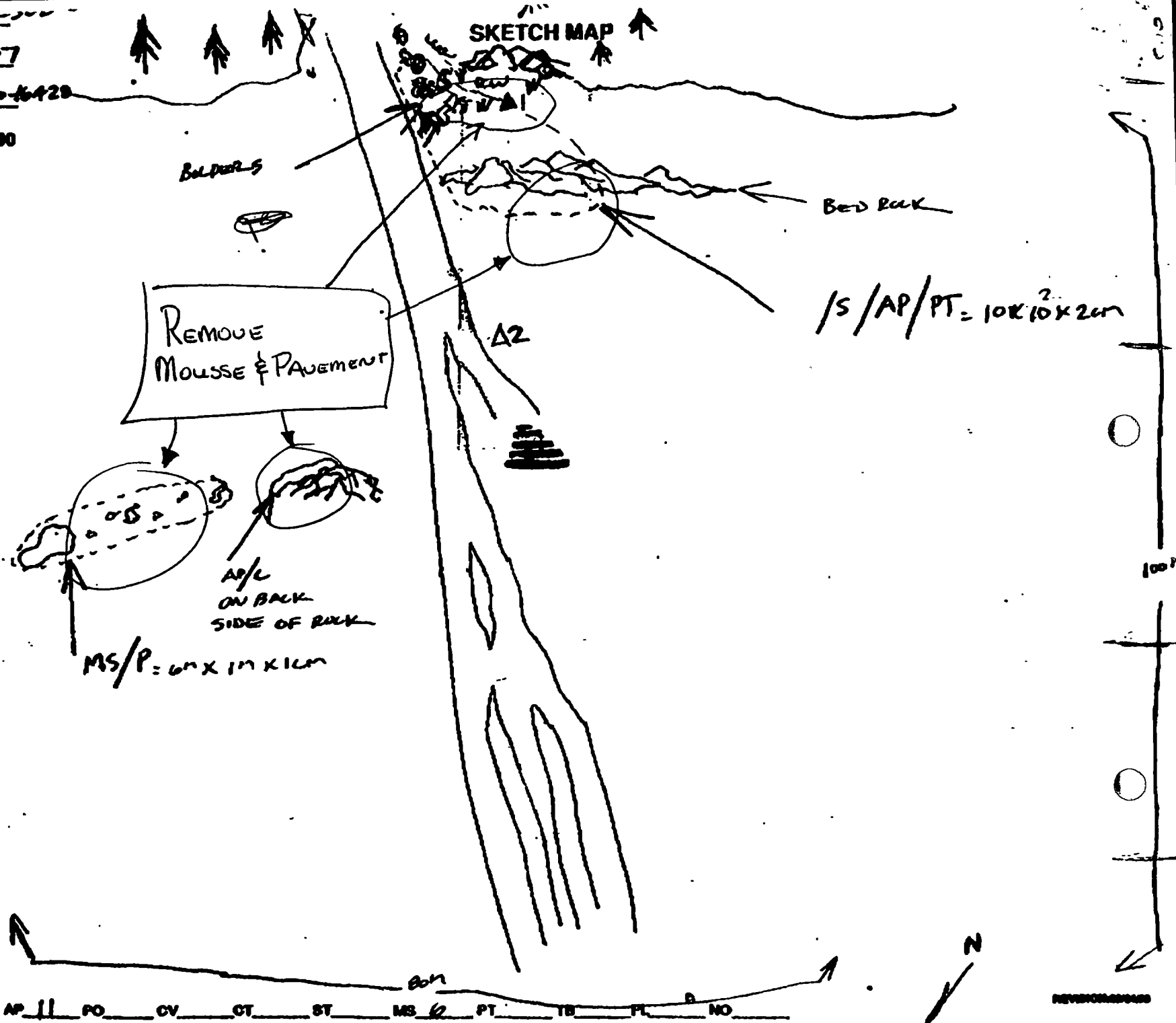


Oiled Vegetation

1 →

Photo location, direction, and number

SKETCH MAP

Oil Character Length (m): AP 11 PO CV CT ST MS 12 PT TB PL NO

ACE 7237441

48 PHOTOLOG

FRAME(S)

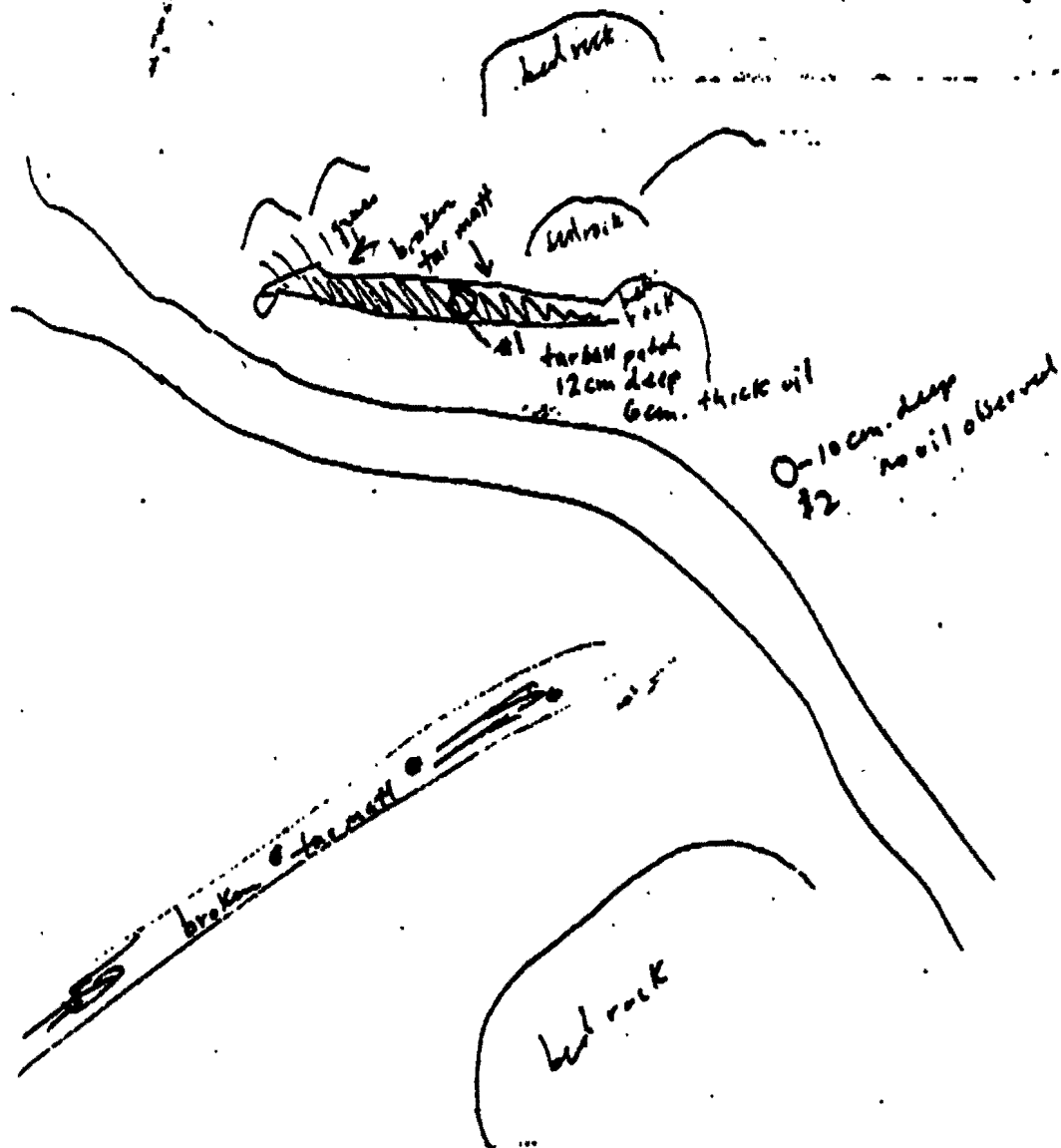
DESCRIPTION

Recommendations

Shore removed to be removed.
Shoreline clay, moss, and oil grass in
upper water tidal and lower half of upper water tidal.
No bioremediation recommended

48 OIL DISTRIBUTION DIAGRAM

Comments by Ken Critchley:
I agree with ADFG recommendations KRC



ER-07

ER-

SUBJECT ANADROMOUS
STREAM
ER-07-A (1 of 1)

very light 0.5 75 8
Light 5.6 840 90
915 90

ER-09

10 of 22

XXXX Wide

//// Medium

---- Narrow

TTTT Very Light

0000 No Oil

ER-7

ADEC Segment Length: 1022m

0 100 200 300
METERS



Map Key: PWS-173

Name: Richard Marty

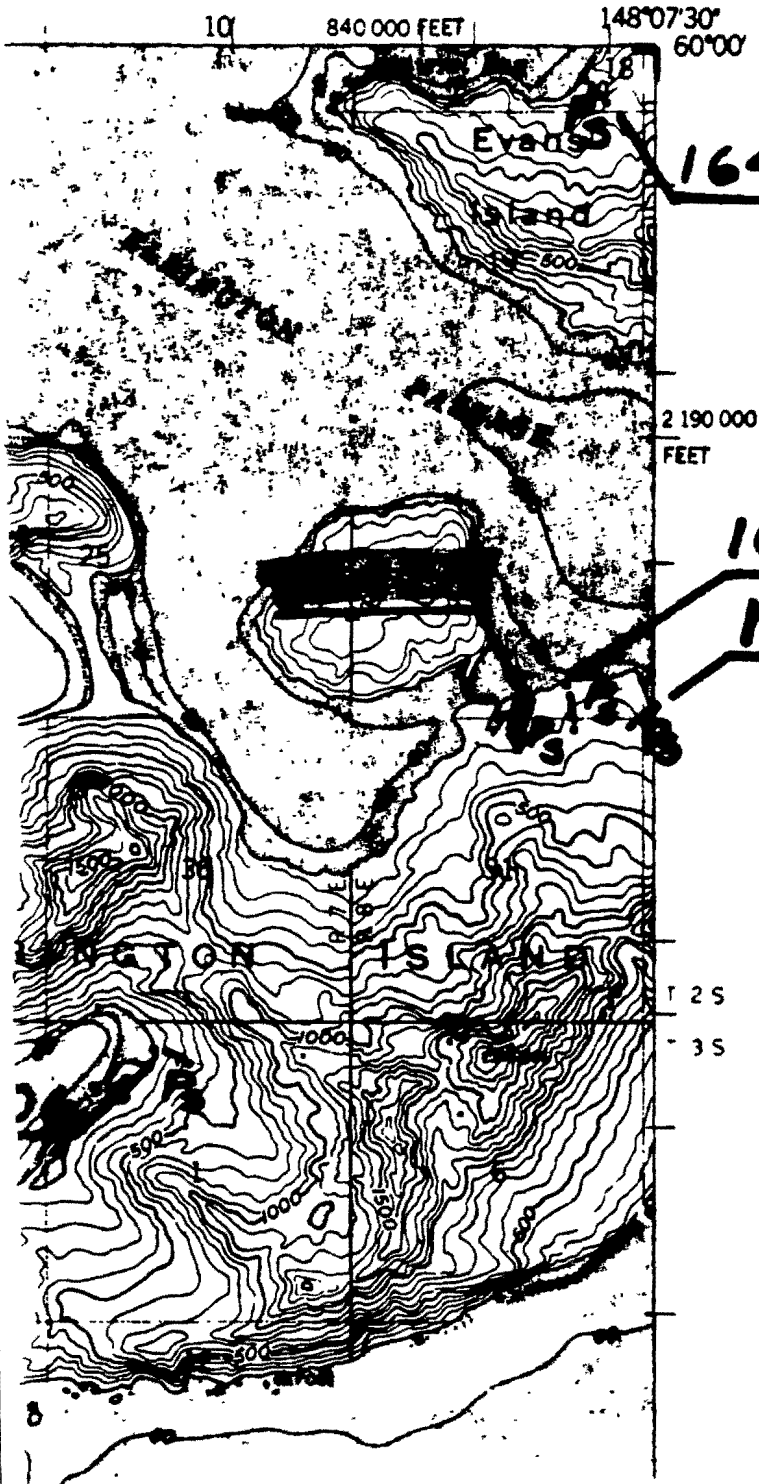
Date: 04/04/90

Date Entered:

ACE 7237443

YING SOUND (D-4) QUADRANGLE
ALASKA
1:63 360 SERIES (TOPOGRAPHIC)

(SEWARD (A-3))



16448

16430

16432

Processed
5/1/90
MK

RECEIVED
MAY 03 1990

DEPT. OF
ENVIRONMENTAL CONSERVATION

ANADROMOUS FISH STREAM ASSESSMENT

REGION: PRINCE WILLIAM SOUND

SEGMENT: ER-07

STREAM NO: 226-50-16428

no concern

TAI. will remove oiled debris
+ unattached grasses
Also remove oil in vicinity
Pit 1

ACE 7237445+15

ANADROMIC FISH STREAM EVALUATION

SEGMENT ST/ ER-07 STREAM NO: 226-50-16428 DATE 4/20/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
1B Salmon stream mouth - spawning (7/10 to 8/31)
1F Sawmill Bay Hatchery release (4/15 to 6/1)
6Y Recreation: Special use destination
7II Subsistence area: Deer harvesting (8/15 to 2/28)
9EE Set aside

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to uncoiled biota and substrate. Subject stream is located in Subdivision A (1 of 1).

ARCHAEOLOGICAL CONSTRAINTS:

If cultural resources are uncovered during shoreline treatment, stop work in the vicinity, mark the location of the find and contact a member of Exxon's Cultural Resource Program immediately (564-3657; 564-3658 or 564-3276).

SHPO SIGNATURE: _____ DATE: _____

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

RECOMMENDATIONS:

<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: _____ Wands
<u> X </u> Tarmat Removal	<u> </u> Beach Cleaner
	<u> </u> Other (see comments)

COMMENTS: Recommended treatment includes manual removal of pavement and mousse patties as indicated on sketch map. Work should be conducted between 6/1 and 7/10 based on constraints.

Also manual removal of oil debris & gravel.

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____
EXXON _____
NOAA _____
USCG _____

FOSC: _____ DATE: _____

Salmon stream mouth - fry outmigration (3/1 to 5/1)

Salmon stream mouth - spawning (7/10 to 8/31)

No disturbance of stream bed or banks unless authorized by ADF&G. No beach flushing into stream drainage. No bioremediation or other chemical application within 100m of stream without authorization from ADF&G. No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, prior to at least July 1 unless authorized by ADF&G. Treatment which is not intrusive and which will not affect nearshore oil or toxicity levels, such as manual removal, can probably proceed without adherence to time constraints. In any case, contact ADF&G Habitat Division prior to treatment for consultation and/or permit application.

AGENCY CONTACT PERSON: ADF&G John Morison 267-2324

1C Salmon fry nursery area (4/31 to 7/31)

No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, prior to July 31 unless authorized by ADF&G. Treatment which will not affect nearshore oil or toxicity levels, such as manual or mechanical removal, can probably proceed without adherence to time constraints. Contact ADF&G prior to treatment for confirmation and advice.

AGENCY CONTACT PERSON: ADF&G Larry Peltz 424-3214

1D Esther Hatchery release (4/15 to 6/1)

1E Main Bay Hatchery release (4/20 to 6/10)

✓1F Sawmill Bay Hatchery release (4/15 to 6/1)

1G Cannery Creek Hatchery release (4/21 to 6/1)

1H Remote release site

No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, prior to at least July 1 unless authorized by ADF&G and/or PWS Aquaculture Association. Treatment which will not affect nearshore oil or toxicity levels, such as manual or mechanical removal, can probably proceed without adherence to time constraints. Contact ADF&G or PWS Aquaculture Association for confirmation and authorization.

AGENCY CONTACT PERSON: 1E ADF&G Larry Peltz 424-3214

1D 1F 1G PWS Aquaculture Association John McMillan or Bruce Suzumoto 424-7511

1I Gill net area (8/7 to 8/31)

1J Purse seine area (7/20 to 9/30)

1K Purse seine hook-off (7/20 to 9/30)

1L Set net sites (8/11 to 7/25)

Contact ADF&G for specific dates, locations and constraints. Restrict boat and air traffic to essential minimum. When set net sites are present (1L) restrict beach operations to essential minimum as authorized by ADF&G. If plans for treatment include methods such as hot water wash or Inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization.

AGENCY CONTACT PERSON: ADF&G James Brady 424-3212

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

Contact ADF&G for confirmation - dates and locations may vary. Restrict boat traffic to essential minimum. Avoid damage to unopened intertidal and subtidal algae and seagrass. If plans for treatment include methods such as hot water wash or Inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization.

AGENCY CONTACT PERSON: ADF&G Evelyn Biggs 424-3235

3N, 3P Harbor seal and sea lion pupping (5/15 to 7/1)

3O, 3Q Harbor seal and sea lion molting (8/15 to 9/15)

Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts. No application of Inipol within two weeks of arrival dates (work window at these sites is limited to 7/2 to 7/31). Contact ADF&G and USFWS prior to treatment for confirmation.

AGENCY CONTACT PERSON: US National Marine Fisheries Service Steve Zimmerman 586-7235

ADF&G Don Calkins 267-2403

5R Seabird colony (5/1 to 9/1)

Restrict air and boat traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance from colony. Contact USFWS prior to treatment.

AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377

5S Shorebird/waterfowl concentration (4/1 to 5/15)

Restrict all activity to essential minimum, especially air traffic. Contact USFWS and ADF&G for confirmation.

AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377

ADF&G Tom Roth 267-2206

5T All Bald Eagle nests (3/1 to 6/1)

Active Bald Eagle nests (3/1 to 9/1)

Restrict air traffic and all disturbance to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates.

AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377

6U Recreation: Tent sites (8/1 to 9/15)

6V Anchorages (8/1 to 9/15)

6W Forest Service cabins (8/1 to 9/15)

6X Lodge (8/1 to 9/15)

Special use destination

7Z Subsistence area: Salmon harvesting (5/1 to 9/30)

7HH Finfish harvesting

7I Deer harvesting (8/15 to 2/28)

7JJ Invertebrate harvesting

Contact ADF&G and appropriate Native Corporation for specific dates, locations, and constraints. Restrict boat and air traffic and beach disturbance to essential minimum. If plans for treatment include methods such as hot water wash or application of Inipol which might affect intertidal or nearshore oil or toxicity levels, contact ADF&G and appropriate Native Corporation for authorization - see Native Corporation Contact List for each Native Corporation's contact person.

AGENCY CONTACT PERSON: ADF&G Jim Fall 267-2359

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / ER-007 SUBDIVISION: 226-50-16428 ^{ASC#} DATE 4-20-90

USCG

NAME Kerwin L. Dreher SIGNATURE cwoz K. L. Dreher

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

ADFG

NAME Rick Gustin SIGNATURE Richard J. Gustin

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

We recommend shovel removal and bagging of mousse paddies, oiled grasses and other oiled debris where found in upper intertidal and lower half of upper intertidal + top of mid intertidal.
No bioremediation recommended

This stream consists of small bands of broken tar matt in the upper intertidal on the south bank extending into grass areas almost to the stream mouth.

ADFG
LAND MANAGER

NAME Rick Gustin SIGNATURE Richard J. Gustin

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

The north bank has small broken bands of tar matt in the lower 1/2 of upper intertidal (splashed distribution)

SHORELINE OILING SUMMARY (ANAD)

REVISION NO. 047C

OG CAL LARSON USCG DREHER, C WE SEGMENT ST/ ER 007
 BIO REN CRITCHLOW LAND REP STREAM 126-50-10420 OF
 EXXON DARREN YOE ADFG 22 K. AUSTIN - AIMEE WISEMAN TIME 15:45 to 16:15
 TEAM NO. 10 TIDE LEVEL VLH DATE 4/20/90
 EST. SUBDIVISION LENGTH: 60 m ☒ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☐ Forest ☐ Rock
 SURVEYED FROM: ☐ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R 5 % B 5 % C 45 % P 25 % G 20 % S 0 % M 0 % V 0
 SLOPE: Long 6 % Hang 0 % Vert 0 % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 17 m NO 63

SURFACE OIL

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

PAVEMENT H F (S) 3 sq. m by 2PATTIES / TARBALLS 0 BAG

NEAR SHORE SHEEN? NO BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

Did You COLLECT
 DEBRIS ☐ YES ☒ NO

TYPE 0#BAGS 0

Photographs:

ANAD-14-

Roll No. 2Frames 11-17

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 SEDIMENT
		OP	OR	OL	OF	NO		BO	UC	1	2	3	4	5	6	7	8					
* 1	12						0-6															120 10 TAIL SP, PB, CB
2	10																					PB, CB, SP

COMMENTS VERY SMALL AMOUNTS OF ASPHALT OBSERVED AT SITE.
OBSERVED ONE PIN TAIL DUCK.

* OILED INTERVAL < 5 cm IN PIT NO. 1 DOES NOT CONSTITUTE SUBSURFACE OIL

REVIEWED SWDATE 4-24-90

ACE 7237449

15/51

OG CAL LARSON

SEGMENT ST/ER107

STREAM 226-5-16420

DATE 1/80

CHECKLIST

- ☐ N Area
- ☐ Approx. Scale
- ☐ Seg/Sub Entry
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HWA/LAR
- ☐ SSI
- ☐ Profile Location(s)
- ☐ Photo Location(s)

LEGEND

1 Δ

P1 - No Subsurface Oil

2 Δ

P1 - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

Splashed Distribution

eee

Oiled Vegetation

1 00

Photo location, direction, and number

SKETCH MAP

Boulders

Bed Rock

REMOVE
MOUSSE & PAVEMENT

A2

1/5/AP/PT = 10K 10X 2cm

AP/L
ON BACK
SIDE OF ROCK

MS/P = 6m X 1m X 1cm

Oil Character Length (m): AP 11 PO CV CT ST MS 6 PT TB FL NO

ACE 7237450

SIGHT TEAM

TO

HANDING TO UNUSUAL

UNUSUAL

DATE 1-17-84

REVISIONS

ADPAG MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS (S) DS TS AVS SCN MMS PTA 2 REGION: PMS KP,CI K,AP

METHOD: Aerial Geopod Boat

3 DATE: 4-76-90 18 HIGH TIDE TIMES: 1 21 TEAM RECORDER: R. Austin

4 START TIME: 1550 19 HIGH TIDE HTS: 1 22 OBSERVERS: A. W. ...

5 STOP TIME: 1620 17 LOW TIDE TIMES: 1 23 AGENCY: ADFG

6 SEGMENT #: ER 007 16 LOW TIDE HTS: 1 24 PHOTOS TAKEN: Y (N)

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

8 K-UNIT: Ebb Slack Flood Slack 25 VIDEO TAKEN: (Y) N TAPES: 90RL6001 35;

9 STAT AREA: 20 USCG QUAD: Starts: 124 Ends: 125

10 LAT: 11 LONG: 26 SAMPLES TAKEN Y (N) Number

12 SOURCE: Map Loran 011

13 LOCATION: Elington Is. Sediments

14 DESCRIPTION: Biological

Water

EXTENT OF OIL

	SHORELINE				STREAM			
	L	M	H	S	L	M	H	S
27 SURFACE COVERAGE								
28 SURFACE THICKNESS	2-3cm							
29 PENETRATION	6-10cm							
30 OVERALL OIL IMPACT:	N	VL	L	M	H			
31 OIL TYPE:	Pooled	Mousse	<u>tar mat</u>	Asphalt	<u>Sticky</u>	Slain		
32 OILED ORBIT	<u>(Y)</u>	N						
33 SHORELINE TYPE:	Headland	Low-lying Rocks	<u>Beach</u>	Cove				
		Lagoon	Marsh					
34 WAVE EXPOSURE:	High	<u>Medium</u>	Low					
35 SUBSTRATE TYPE:	Bedrock	Boulder	<u>25</u>	Cobble	<u>10</u>			
	Gravel	<u>65%</u>	Sand	Mud/silt				

36 CATALOGED ANAD. FISH BREAST (Y) N

37 CATALOG #: 226-50-16428

38 STREAM NAME:

39 OIL IN STREAM BED? Y (N)

40 OIL ON STREAM BANKS? (Y) N

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

42 OIL WITHIN 1 MILE OF STREAM (Y) N

Where:

43 ANADROMOUS FISH PRESENT? Y N

44 ANADROMOUS FISH OBSERVATION

Species	Aerial	Ground

COMMENTS: Small bands broken for most upper inter tidal on South bank
 into grass areas almost to mouth of stream
 N. bank North bank small broken band for most lower 1/2 of upper
 inter tidal (splashed distribution) random

ER-07

ER.

SUBJECT ANONYMOUS
STREAM
ER-07-A (1 of 1)

Very light	0.5	75	8
Light	<u>5.6</u>	<u>840</u>	<u>90</u>
	915	90	

ER-09

10 of 22

XXXX Wide

//// Medium

---- Narrow

TTTT Very Light

0000 No Oil

ER-7

ADEC Segment Length: 1022m

0 100 200 300
METERS

Map Key: PWS-173

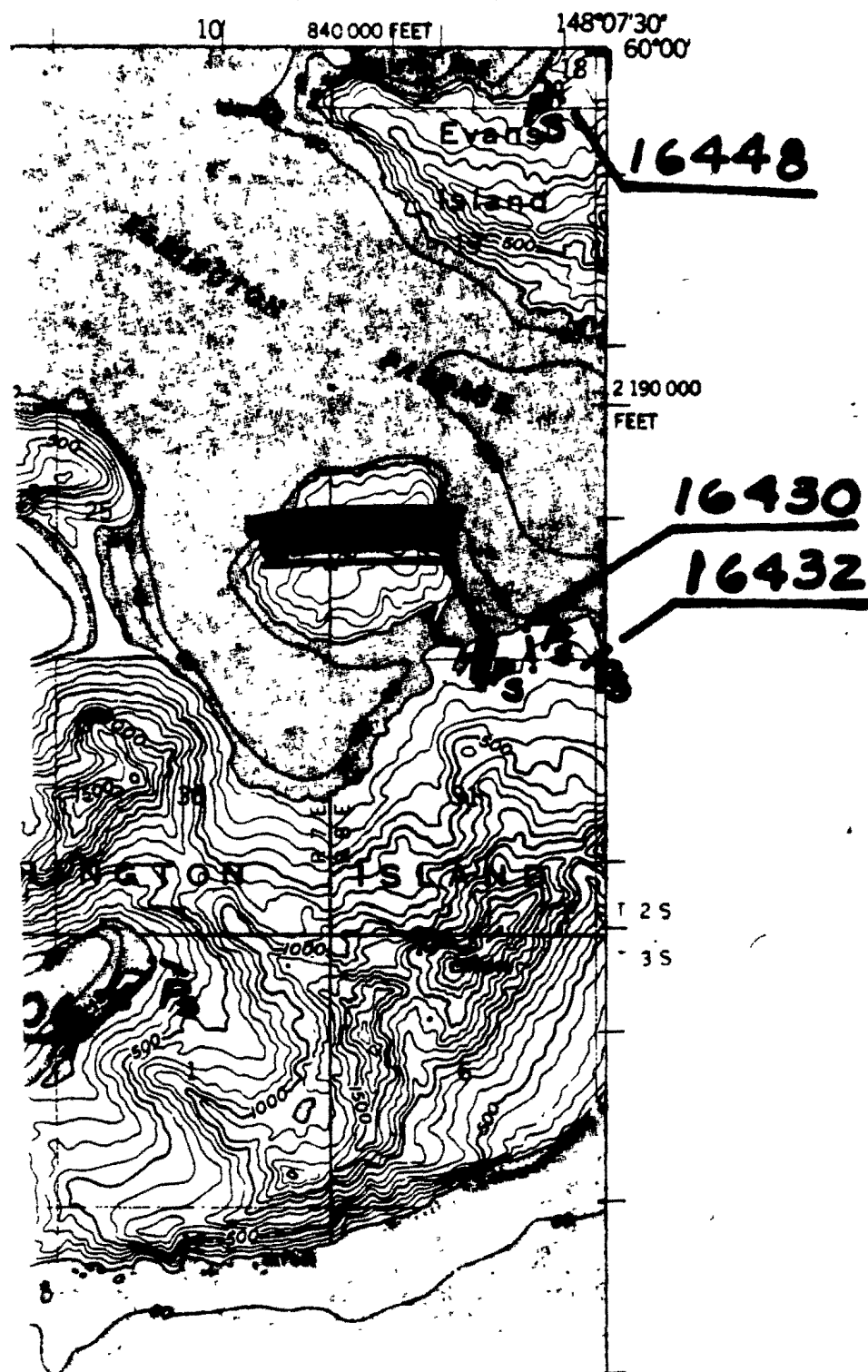
Name: Richard Marty

Date: 04/04/90

Date Entered:

YING SOUND (D-4) QUADRANGLE
ALASKA
1:63 360 SERIES (TOPOGRAPHIC)

(SEWARD (A-3))



ACE 7237454-15/SG

(56)

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: ER007
LOCATION: SW ELRINGTON ISLAND

DATE: 10/12/89
TIME: 17:16

Survey Type: Ground
Team: J. Hayes, P. Montesano

WEATHER AND SEA CONDITIONS

Weather: Sunny
Sea State: Calm

Wind Direction: NW
Knots: 0-15

Low Tide: 6:02	Feet: 0.63	High Tide: 12:17	Feet: 12.3
Low Tide: 18:27	Feet: 0.82	High Tide: -0-	Feet: -0-

SHORELINE DESCRIPTION

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

Wave Exposure: M (H=high, M=moderate, L=low)
Shoreline Composition: G,S
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

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

Max. Oil Thickness: 2 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 6 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): y
Oil Types: M,SY,T,A,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: EL007-1 / EL007-2 / none / none

DAMAGED OR OILED ORGANISMS

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

SOLID WASTE FOUND

Type: Many localities, cleanup debris
Bags Collected: 1

Draft

Printed: 12/12/89 11:12

Walk-a-thon

ACE 7237418

ASAP Follow-Up Recommendations
TAG Recommendations - August 13, 1990

SEGM I			
CH-04	II	Site 1	Manual pickup of tarmats, rake and bioremediate* H.P.
		Site 2	Manual pickup of tarmats, rake and bioremediate* H.P.
			NTR
EL-57	II		Manual till - mop up mobile oil with snare and bioremediate
EL-58	A		- low priority
			Storm berm relocation (mechanical if necessary)
EL-58	C		NTR - Reassessment in '91
EL-58	C		Customblen application and reassessment in '91
EL-58	D		NTR
ER-07	A	Site 1	Manual pickup of tarmat and bioremediation (low priority)
		Site 2	Limited manual pickup followed by bioremediation -
EV-05	A		Customblen (low priority)
EV-05	II		Manual pickup of mousse/AP followed by bioremediation. Manual
			till in heaviest areas if necessary (H.P.)
EV-12	A		Access and remove heaviest concentration of AP/OP/HOR
			manual removal followed by bioremediate
EV-15	A		Manual removal of MS/AP/OP/HOR where accessible -
			bioremediate (H.P.)
EV-26	A		Manual removal of AP and bioremediate (M.P.)
EV-37	A		Manual pickup of OP/HOR sediments (relocate armor to
			access)
EV-39	A		Bioremediate
FL-01	A		NTR - work done
GR-301	B	Site 1	Manual pickup of mousse (H.P.)
		Site 2	NTR
		Site 3	NTR
GR-301	II	New Site	Manual pickup of mousse (H.P.)
KN-07	A		Manual pickup of AP/OP/mousse and bioremediate (H.P.)
			both areas
KN-08	A		Manual pickup followed by bioremediation (L.P.)
KN-201	A		Manual removal of AP followed by bioremediation (M.P.)
KN-211	I	Site 1	Manual pickup of oiled debris at stream mouth next to
			small pool, use chain saw as necessary to access.
		Site 2	NTR
		Site 3	NTR
		Site 4	NTR
KN-400	A	Site 1	Manual removal of accessible AP followed by rake and
			bioremediation (L.P.)
		Site 3	NTR
KN-404	A		Bioremediate and assessment in '91
KN-405	A		Further TAG evaluation - bioremediate and assessment in
			'91
NK-02	A		Manual pickup AP/mousse - bioremediation (M.P.)
PD-04	A		Manual pickup of mousse patties and bioremediation, Inipol
			and Customblen (M.P.)
PN-01	A		Manual pickup of AP and bioremediation (L.P.)

ANADROMOUS STREAM CONSTRAINT

TAG
 EXXON
 ADEC
 USCG
 NOAA

DATED

Aug 15 1990

FOSC

DATED

ACE 7237419

Final Anadromous Stream Treatment Information

Segment ID - Stream ID	NTR	Bio	Bio Start	Bio End	Man	Man Start	Man End
BA002 226-40-16450	X						
BA002 226-40-16451		X	6/22/90	6/23/90	X	6/22/90	6/23/90
BP004 226-20-16388					X	7/1/90	7/2/90
BP004 226-20-16392					X	7/2/90	7/3/90
BP004 226-20-16395					X	7/3/90	7/4/90
BP004 226-20-16397		X	7/7/90	8/27/90	X	7/4/90	7/7/90
CB003 242-20-10190					X	6/14/90	6/14/90
CH001 226-20-16280					X	6/16/90	6/16/90
CH002 226-20-16180		X	7/3/90	9/12/90	X	6/16/90	6/16/90
CH009 226-20-16182		X	7/4/90	9/12/90	X	7/4/90	7/4/90
CH014 226-20-16255					X	6/20/90	6/20/90
CH016 226-20-16258	X						
CH0900 226-20-16200					X	7/3/90	7/3/90
CU001 224-20-12995					X	5/18/90	5/23/90
CU007 224-20-13010	X						
CU013 224-20-13030					X	6/3/90	6/3/90
CU014 224-20-13034					X	6/21/90	6/21/90
CU014 224-20-13036					X	6/21/90	6/21/90
EI001 242-10-10270					X	7/1/90	7/1/90
EL015 226-10-16906					X	6/30/90	6/30/90
EL052 226-10-16902		X	6/28/90	9/4/90			
ER005 226-50-16432					X	6/21/90	6/21/90
ER006 226-50-16430					X	6/20/90	6/20/90
ER007 226-50-16428					X	6/20/90	6/20/90
ER019 226-50-16406	X						
EV003 226-40-16590					X	6/10/90	6/10/90
EV007 226-40-16559	X						
EV012 EV012-UNCAT		X	6/22/90	6/23/90	X	6/22/90	6/23/90
EV014 226-40-16640					X	6/23/90	6/23/90
EV017 226-40-16620					X	6/19/90	6/19/90
EV017 226-40-16630					X	6/19/90	6/19/90
EV025 226-40-16613		X	7/1/90	7/1/90	X	6/9/90	6/9/90
EV027 226-40-16610					X	7/8/90	7/8/90
EV070 226-40-16509		X	6/12/90	9/1/90	X	6/12/90	6/12/90
EV071 226-40-16484		X	7/5/90	9/1/90	X	6/21/90	6/21/90
FL002 226-40-16390	X						
FL005 226-40-16400	X						
GR007 GR007-UNCAT					X	6/27/90	6/27/90
GR013 227-20-17890	X						
GR103 227-20-17880					X	6/24/90	6/26/90
IN031 226-10-16916					X	7/5/90	7/5/90
K0101-SI008 251-81-10010	X						
K0101-SI014 251-82-10090					X	7/3/90	7/3/90
K0112-SS009 251-50-10045					X	7/2/90	7/2/90
K0201-SI013 251-81-812	X						
K0302-IB005 252-31-10020					X	6/5/90	6/5/90
K0911-CD018 262-10-10100					X	7/5/90	7/7/90
K0911-CD020 262-10-10040					X	7/3/90	7/8/90
K0911-CD020 262-10-10070	X						

**ADEC DEMOBILIZATION REPORT
FOR PHYSICAL/MECHANICAL TREATMENT AND CUSTOMER**

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

RE: SEGMENT NUMBER ER-07 SUBSEGMENT NUMBER A Site # 2

DEC REP John Hoyer USCG REP Paul Berg

EXXON REP Larry Olson BOAT NAME/SQUAD NUMBER Adele Candies

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

Work was from ASAP followup Rpt.

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

*Residual OR + OR/H sediments below where AP was removed
average depth 10cm.*

Site scheduled for B's following our work.

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

*260x4 band of ~~sediment~~ ^{SOR/H/P} the residual oil below where AP was
manually removed in UJ2. ^{J4} Aug. S.S. 8cm. OR/m+H*

Additional Comments (keep objective)

*Site #1 was not worked as Tug did not approve my
followup recommendation. Pass no immediate screen or free oil problem although should
remain high priority for rework in 1991.*

signature [Signature]
Date and time of demobilization from segment 8/30/90 14:30
Shoremon\55 5-12-90

ACE 7237423 +AC

6/23/90

This Agreement does not in any way modify or affect liability for actual damages resulting from discharge of oil onto or off of the set-aside sites. This agreement is for the sole purpose of providing for a formal setting aside of certain beaches for scientific study of the fate and effects of oil from the Exxon Valdez spill; it is not intended to have precedential effect or to constitute evidence with respect to cleanup of beaches or other areas outside the scope of this agreement.

AGREED AND ACCEPTED:

UNITED STATES OF AMERICA

DATE: 23 July 1990

By D. E. Ciancaglini
D.E. Ciancaglini
Federal On-Scene Coordinator
U.S. Coast Guard

AGREED AND ACCEPTED:

STATE OF ALASKA

DATE: January 11, 1990

By Dennis Keiso
Dennis Keiso
Commissioner, Department of
Environmental Conservation

AGREED AND ACCEPTED:

EXXON COMPANY, U.S.A.

DATE: Jan 23/1990

By O. R. Harrison
O. R. Harrison
General Manager

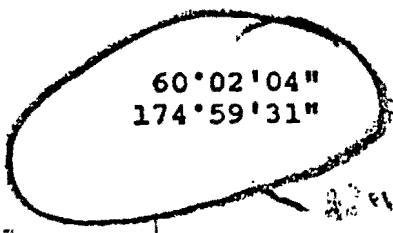
MARK
KAWA
From
Corinthian

ATTACHMENT A

<u>Site Name</u>	<u>Location</u>	<u>Length</u>	<u>Segment Number</u>
Knight Island Rocky West Site Herring Bay	60°28'23" 147°42'34"	100m	KN-5000
Knight Island Soft East Site Herring Bay	60°28'23" 147°42'34"	100m	KN-5000
Knight Island Rocky East Site Snug Harbor	60°15'52" 147°45'29"	100m	KN-401
Knight Island Soft West Site Snug Harbor	60°15'52" 147°45'29"	100m	KN-401
Knight Island EPA Control Snug Harbor	60°15'41" 147°43'55"	400m	KN-403
Knight Island EPA Study Site Snug Harbor	60°15'00" 147°44'32"	600m	KN-404
Knight Island Rocky and Soft Site Bay of Isles	60°23'07" 147°44'56"	100m	KN-208
Wilmington Island W - E Site	59°57'58" 148°10'03"	175m	ER-07
Matouche Island	60°02'04" 174°59'31"	300m	LA-15

Not
Full
Dredged

Attention
mark
Kauai
Attachment 11



2007 even on the island
let alone LA 15

If you plot this on a nautical chart
it will put you out in the western Aleutians.
⊕ If you reverse 174 to 147 it still misses Matouche

117

ADEC DEMOBILIZATION REPORT
FOR INIPOL AND CUSTOMBLEN TREATMENT

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

Attn: John Bauer
FAX 265-4666

From: Chris Strand (please print)

RE: SEGMENT NUMBER ER-08 07 SUBSEGMENT NUMBER A

ADEC REP Chris Strand

(ER-07)

USCG REP Chris Van Delt

EXXON REP Tony Diaz

BOAT NAME/SQUAD NUMBER Arctic Silver / sq 49cl #4

Site #	Length (along shore m)	Area m ²	Inipol (gallons)	Customblen (lbs.)
①	93	401	—	82
②	125	250	20	9.5

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

Multiple bands of oil on northwest half of segment ^{Yes} broat as per work order.

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

Surface cobbles coated and stained with exposed areas of residue among gravel, pebble, sand, which extends into substrate up to 3cm. Selected spots hide minor barnacles and light mousse.

Additional Comments (keep objective)

signature C. Kim Strand 6/14/90

Date and time of demobilization from segment 6/14/90, 1515

Shoremon/Demob.bio 55/30/90

ADEC DEMOBILIZATION REPORT
FOR PHYSICAL/MECHANICAL TREATMENT AND CUSTOMBLEN

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

RE: SEGMENT NUMBER ER-07 SUBSEGMENT NUMBER A (141)

DEC REP Bob McHardy USCG REP Pat Maloy

EXXON REP Nick Marting BOAT NAME/SQUAD NUMBER Shale-5

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

Yes

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

I would recommend mesh. Digging prior to bioremediation on North section of segment ~~to~~ to facilitate effectiveness. See Demob. map for ER-07 - 6/3/90.

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

Some sub-surface oil remains on North side of segment - See demob. map.

Additional Comments (keep objective)

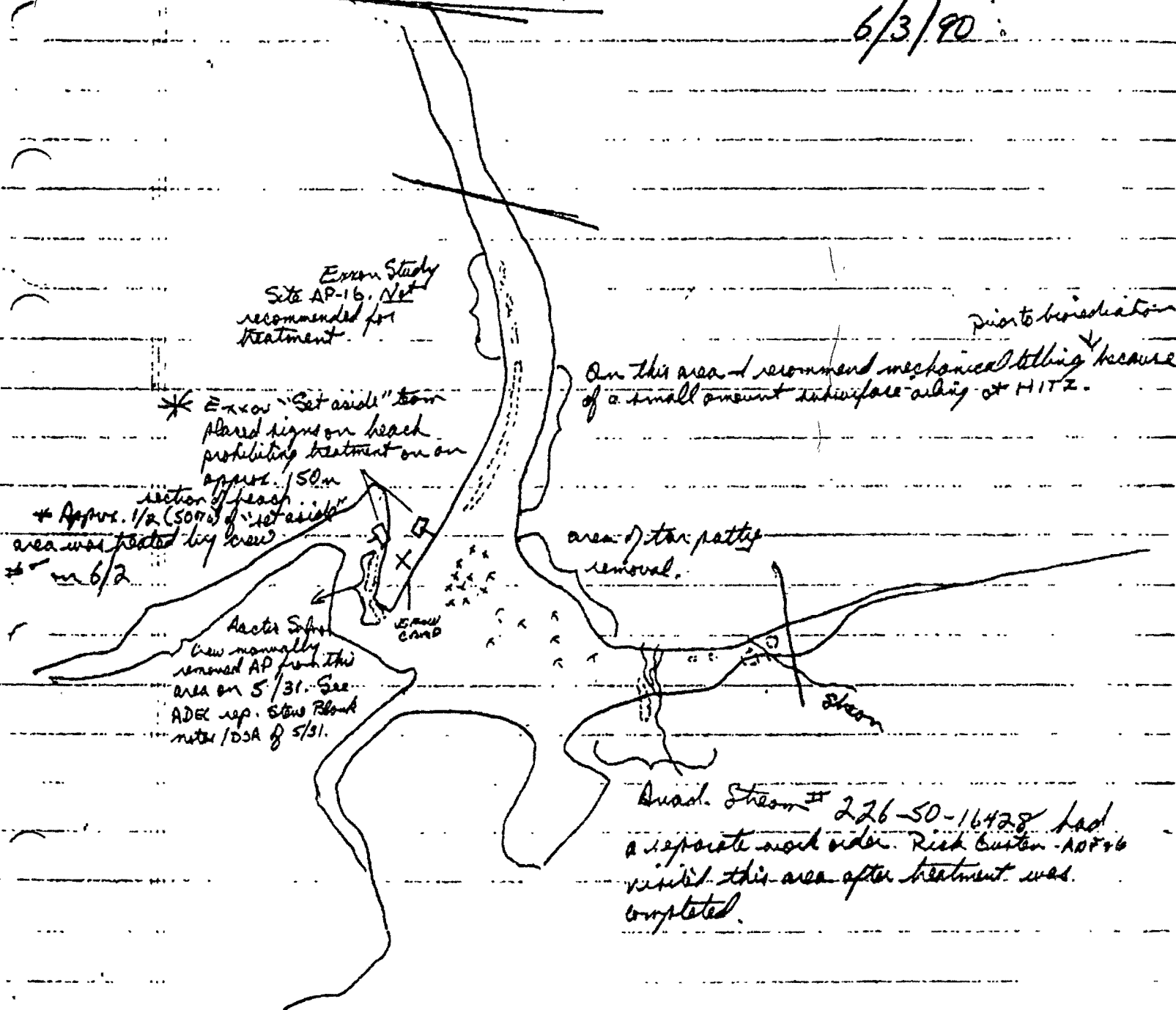
signature Robert G. McHardy

Date and time of demobilization from segment 6/3/90 - 1140
Shoremon\55 5-12-90

ER-07 DEMOB-MAP

BOB MCCREARY

6/3/90



o = Areas of AP/Tarmac Removed
 x x x = Individual Tar patches removed

Robert G. McCreary

ACE 7237429 -15

(version 6/14/89)

SHORELINE CLEANUP PROGRAM

DATE 6/28/89

SHORELINE SEGMENT ER-07

LOCATION: (see enclosed map) ELRINGTON ISLAND-ELRINGTON PASSAGE
SOUTH END

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 6/23/89

Recommended Cleanup Activity(ies):

Cut and remove oiled fucus (popweed) on rocks. Remove oiled fucus and other debris.

Manually remove mousse asphalt with small work crews (10 workers at most).

No mechanical cleanup recommended at this time subject to FOSC approval, sensitive ecological area and light oiling.

Use other approved methods as appropriate.

Priorities Considerations:

Class 1: Oil present, time sensitive resources.

Class A: San Juan Fishery restrictions.

Ecological Constraints (from site survey):

Use as few people and cause as little disturbance as possible. Do not disturb stream bed. Keep personnel out of the small lake vicinity.

Archeological Constraints (from site survey):

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

Douglas Reger
State Historic Preservation Officer *

Date: 6/29/89

ISCC: _____

Date: _____

EXXON: _____

Date: _____

FOSC: _____

Date: _____

ACE 7237430+15

SHORELINE OIL EVALUATION

Date: 6/23/89 Time: 10:40

Observer: RICK GALLIE

Surveyed From: Foot/Boat/Helio/Plane

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION ELRINGTON IS.

LOCATION ~~1100~~ SEGMENT NUMBER ER-07

LENGTH OF SHORELINE SEGMENT: 1,100 m

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

SHORELINE:

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

Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B¹⁰% / C⁴⁰% / P³⁰% / G²⁰% / S___% / M___% / R___%

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

OIL

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

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

Continuous: Y/N % of Segment _____ Width of Band: _____ m

Sporadic: Y/N % of Segment 50

Est. Oil Thickness where > 1cm: _____ cm Est. Oil Penetration: 5 cm

Pooled Oil: _____ % "Free" Oil: _____ % Coated: H¹⁰% / M³⁰% / L⁶⁰%

Fresh _____ % Mousse 10 % Tar Formation: 90 %

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

Comments:

① POTENTIAL ANADROMOUS STREAMS.

② PATCHES (UP TO 100 m²) OF MOUSSE ASPHALT
IN LTZ TO HTZ. MATRIX IS SAND / GRANULES /
BARNACLED / MUD.

DOCUMENTATION:

Map/Aerial photo marking segment boundaries EO 07

VTR: Y/N Tape Number(s) _____

Photography: Y/N Roll Number(s) T4G-6

Sample Numbers Collected: N/A

6/23/1999

SEGMENT ER-07

@ 10:40

① Wide ~~sub~~ intertidal

area / fair low

- Mostly pebble/gravel, with
sand and cobble

② Oiled in HTZ

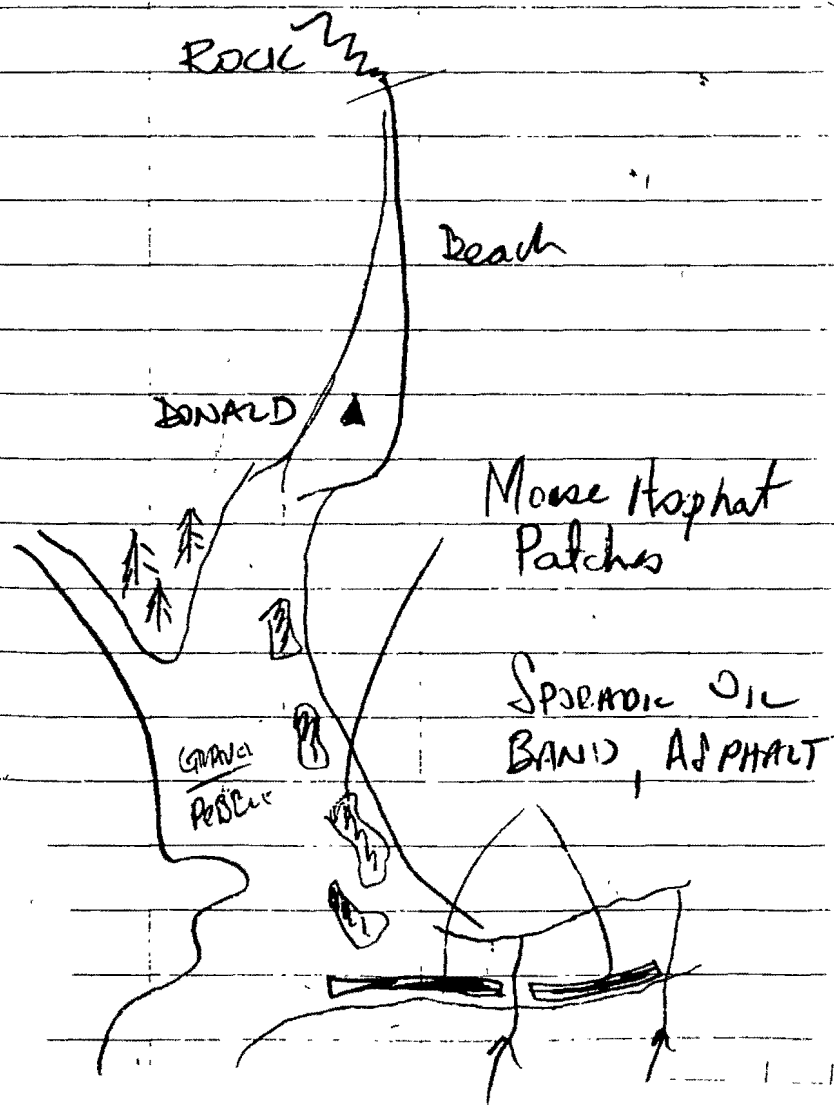
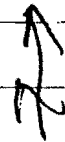
- Light coating - 1 cm wide
band

- Some ~~old~~ incipient asphalt
patches and bands (1 cm wide)
5 cm deep.

- Oiled Tufa rocks are
some Tufa de boni

③ Potential Anachanostrea stream

ER-07



ECOLOGICAL EVALUATION

LOCATION: Erlington Is. SITE: N. Tambora OBSERVER: StollerLOCATION PREFIX: ER SEG. NO.: 7 LENGTH: 1100 (M)DATE: 6/23/89 TIME (HHMM): 1030-1115 TIDE HT.: _____ (M)OILED ZONE: Splash High Medium LowSUBSTRATUM: Rocks Boulder Cobble Gravel Sand MudLIVE BIOTAFucus (algae): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/NSmall plants, variable density & distribution. Generally dense from high to mid tide zone.Mytilus (Mussels): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/NGenerally dense & continuous, broad beds in cobble/shale.Balanus (Barnacles): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/NVariable & patchy. Generally sparse.LittorinaPatchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/NVariable distribution & density. Generally sparse, some dense patches.Limpets: Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/NGenerally sparse, variable.OTHER OBSERVATIONS: Numerous bivalve shells on beach (caudoan? Card. Tide,other?). Gulls feeding on dense fish spawn on beach.Deer tracks on beach.CLEANUP PRECAUTIONS: If cleanup is to proceed do so with as few people and
as little disturbance as possible. Do not remove mussel beds. Do not
disturb stream bed or go into lake vicinity.MAMMALS: Otters _____ Harbor Seals _____ Sea Lions _____ Whales _____
Other _____

BIRDS: _____

GENERAL OBSERVATIONS: Segment consists of a shallow Tambora ~~(Tambora)~~ ^(Littorina?)flooded at high tide. Small stream & lake may provide spawning habitat
for anadromous fish.

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date ER 6/23/89 Location Burton Island Site _____

Location Prefix ER Segment # ER-7 Length 1000

Survey Method:

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

Ground — (G - indicate on map)

Known cultural resources (AHRS #) None Data Source None

Oil conditions/beach visibility light to none

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

Cultural resources observed in beach zone (AHRS code) None

Cultural resources observed in tree fringe (AHRS code) None

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

Shore Profile flat beach and flat grassy grassy
uplands

Fresh Water Sources stream

Sea Exposure protected to the west

Access/Safety good

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

Monitoring during cleanup needed yes no Collection yes no

Photos: Color Roll # _____ Frames _____

B/W Roll # _____ Frames _____

Observer(s) C. Wilson

Time survey started 1100 Time survey ended 1130

Cultural resource considerations/restraints:

If historic undiscovered cultural materials are
uncovered during cleanup contact Epur ash-
geologist, C. Molloy, immediately.

ELRINGTON

PASSAGE

ELRINGTON

Nave

o Light

ER-07

Donald



State of Alaska
Department of Fish and Game
Habitat Division

Page ___ of ___

Field Inspection Report

Date 6-2-90 Time 1600

Location: (Logging unit/Road/Waterbody) ER-007 Elvington Is.
FOX Farm ASC # 226-50-10428

Operator/Contractor: Exxon/Veco

Individuals present at time of inspection:

Name Representing

NICK MARTINEZ (Exxon) RICK GUSTIN (ADFG)
Bob McCready (ADEG)
Pat Malay (USCG)

Activity/Situation Observed: Inspection of Salmon stream following
manual removal treatment. (Tilling)

Pertinent Statutes/Regulations: AK Statutes Title 16

Recommended/Required Action (Specify): I inspected the stream site
and was satisfied with the cleanup efforts
No further treatment recommended. June 2, 1990

By (date) June 2 1990 (if applicable)

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

Rick Gustin ADFG Tech
Fish and Game Representative/Title Company Representative/Title

ACE 7237438

ADFG MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS SS CS TS AVS SCBA MMHS PTA 2 REGION: FWS KP, CI K, AP

METHOD: Aerial Ground Boat

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

4 START TIME: 1550 16 HIGH TIDE HTS: 1 22 OBSERVERS: A. W. Wren

5 STOP TIME: 1620 17 LOW TIDE TIMES: 1 23 AGENCY: ADFG

6 SEGMENT #: ER 007 18 LOW TIDE HTS: 1 24 PHOTOS TAKEN: Y (N)

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

8 K-UNIT: _____ Ebb Slack Flood Slack 25 VIDEO TAKEN: (Y) N TAPE#: 90RLG001 555

9 STAT AREA: _____ 20 USCG QUAD: _____ Start: 124 End: 128

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

12 SOURCE: Map Loran OIT _____

13 LOCATION: Elmington Is. Sediment _____

14 DESCRIPTION: _____ Biological _____

Water _____

EXTENT OF OIL

	SHORELINE				STREAM			
	L	W	M ²	%	L	W	M ²	%
27 SURFACE COVERAGE								
28 SURFACE THICKNESS	2-3cm							
29 PENETRATION	6-10cm							

30 OVERALL OIL IMPACT: N VL L M H

31 OIL TYPE: Pooled Housse (tar mat) Asphalt (Sticky) Stain

32 OILED DEERIS? (Y) N

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

34 WAVE EXPOSURE: High (Moderate) Low

35 SUBSTRATE TYPE: Bedrock _____ Boulder 25 Cobble 10
Gravel 65% Sand _____ Mud/silt _____

36 CATALOGED ANAD. FISH SKEIN? (Y) N

37 CATALOG #: 226-50-16428

38 STREAM NAME: _____

39 OIL IN STREAM BED? Y (N)

40 OIL ON STREAM BANKS? (Y) N

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

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

43 ANADROMOUS FISH PRESENT? Y N

44 ANADROMOUS FISH OBSERVATION

Species	Aerial	Ground

COMMENTS: Small bands broken for mat near inter tidal a Salt bank
into grass area almost towards of stream
Near NW North bank small broken band for mat lower & of upper
inter tidal (splashed distribution) random

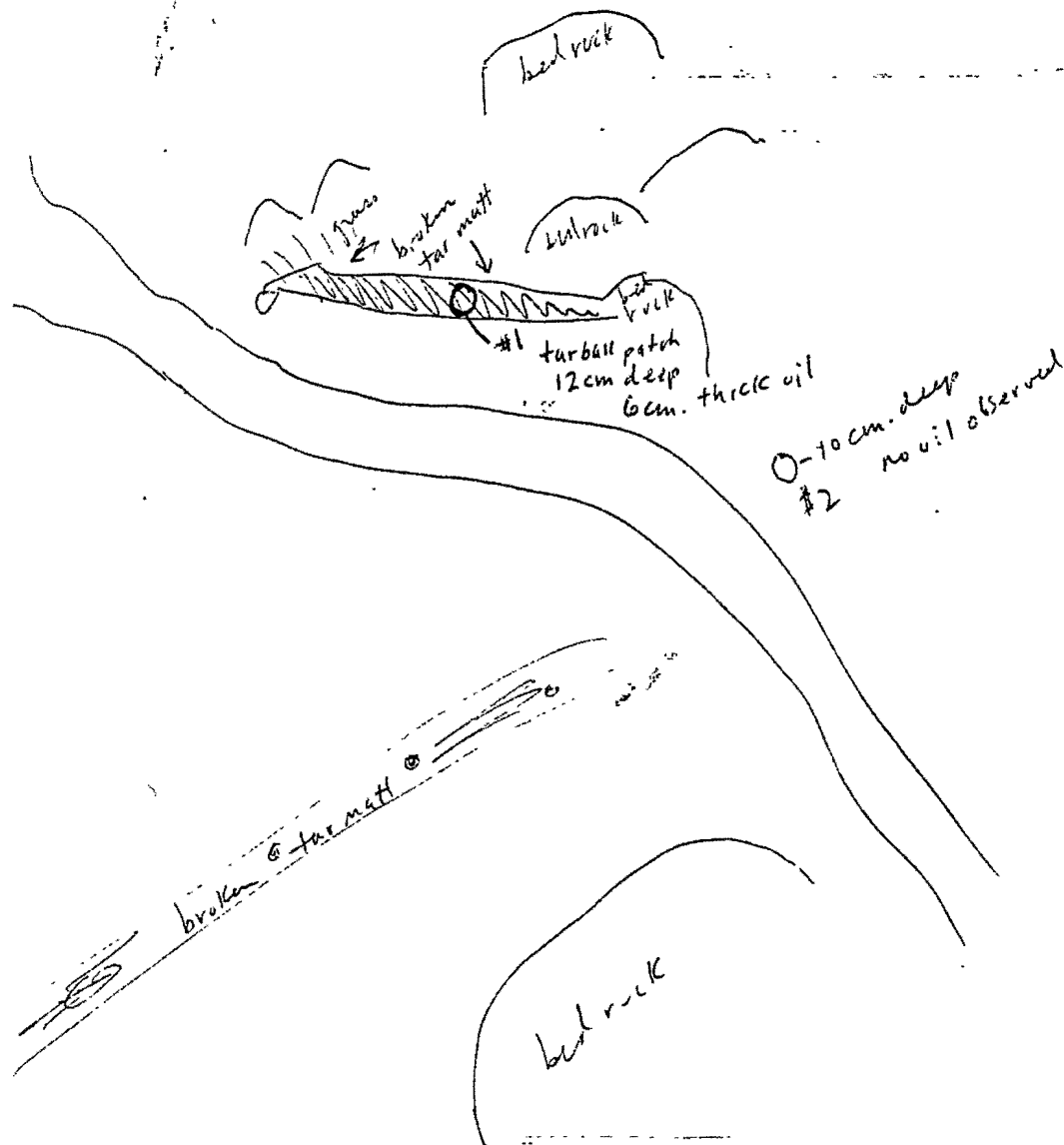
FRAME(S) DESCRIPTION

Recommendations

Shovel remove no bioremedi.
 Shovel remove clay mounds and rooted grasses in
 lower inter-tidal and lower half of upper inter-tidal.
 No bioremediation recommended

48 OIL DISTRIBUTION DIAGRAM

Comments by Ken Critchlow:
 I agree with ADFG recommendations KRC



SEGMENT ST/ER 007

8 STREAM 226-50-16428

DATE / 90

CHECKLIST

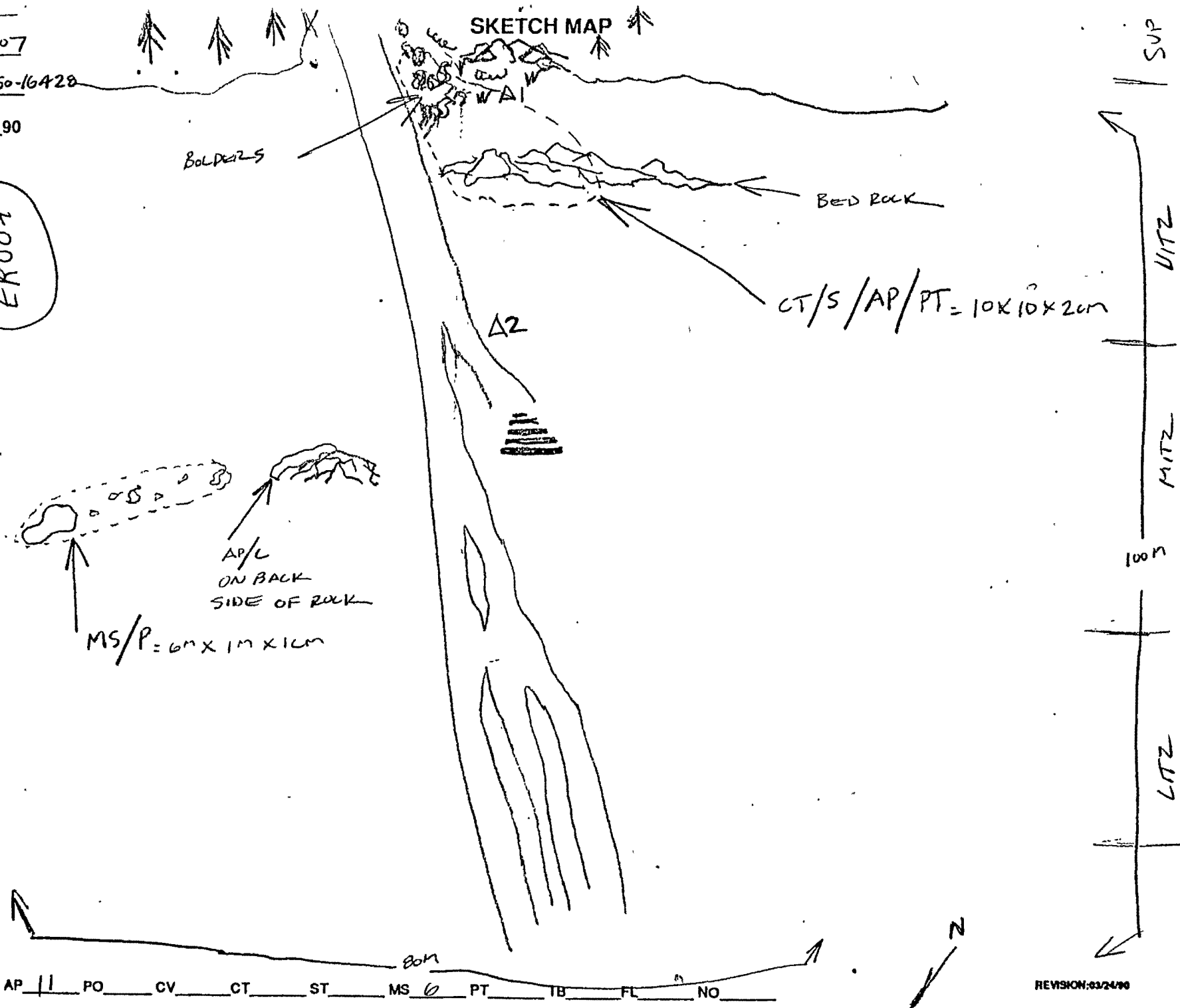
- ☐ N Arrow
☐ Approx. Scale
☐ Sag/Sub Brdry
☐ Oil Dist.
☐ Width
☐ Length
☒ Power
☐ Mirale Character
☐ Est. HWLA.WL
☐ SSL
☐ Profile Location(s)
☐ Profile(s)
☐ Pit Location(s)
☐ Photo Location(s)

LEGEND

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

II Character Length (m): AP 1 PO CV CT ST MS 0 PT TB FL NO

REVISION:01/24/90



FIELD SHORELINE COMMENT SHEET

SEGMENT ST / ER-007 SUBDIVISION: ^{ASC#} 226-50-16428 DATE 4-20-90

USCG

NAME Kerwin L. Dreher SIGNATURE cwoz K. L. Dreher

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

~~ADEC~~ ADFG.

NAME Rick Gustin SIGNATURE Richard J. Gustin

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

We recommend shovel removal and bagging of mousse paddies, oiled grasses and other oiled debris where found in upper intertidal and lower half of upper intertidal + top of mid intertidal.
No bioremediation recommended

This stream consists of small banks of broken tar matt in the upper intertidal on the south bank extending into grass areas almost to the stream mouth.

~~LAND MANAGER~~ ADFG.

NAME Rick Gustin SIGNATURE Richard J. Gustin

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

The north bank has small broken bands of tar matt
upper intertidal (collected distribution)

OG CAL LARSON USC DREHER, CWE SEGMENT TI ER. 007 28
 BIO KEN CRITCHLOW LAND REP STRE. 1226-50-16428 (OF)
 EXXON DARRYL YOE ADFG ELK GUSTIN-AIMEE WESEMAN TIME 15:45 to 16:15
 TEAM NO. 19 TIDE LEVEL XLF DATE 4 120 190
 EST. SUBDIVISION LENGTH: 80 m ☒ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☒ Forest ☐ Rock
 SURVEYED FROM: ☐ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R 5 % B 5 % C 45 % P 25 % G 20 % S % M % V %
 SLOPE: Lang 6 % Hang % Vert % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W m M m N m VL 17 m NO m

SURFACE OIL

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

PAVEMENT H F (S) 3 sq. m by 2 cm

PATTIES / TARBALLS BAGS

NEAR SHORE SHEEN? NO BR RW SL TL

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

Did you collect DEBRIS ☐ YES ☒ NO

TYPE

#BAGS

Photographs:

Roll No. 2

Frames 11-17

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	SB BR	DEL FW	GY SL	DBL TL	LBR	SU	U	M	LI							
1	12		✓				0-6		✓		✓	-	-	-	✓										DUG IN THE PIT SP, PB, CB
2	10					✓	-		✓						✓										PB, CB, DP
							.																		
							.																		
							.																		
							.																		
							.																		

COMMENTS VERY SMALL AMOUNTS OF ASPHALT OBSERVED AT SITE.
OBSERVED ONE PIN TAIL DUCK.

REVIEWED DATE

GENERAL DATA

226-50
SEG ID: ER-007 SUBDIV: 16428 TEAM: 14 SURVEY DATE: 4/20/90
PAVEMENT: CHAR S AREA 3 THICKNESS 2 TARBALLS -
OILED: LGS SM VEG SM TRH - DBR - WAVE EXP: LW X MD - HG -
FAX RCVD: - DT: - AGENCY DISAGREE: -
EST SUBDIV LGTH: 80 OIL CATEGORY: W - M - N - VL 17 NO 63 U -

SURFACE DATA

SURFACE SEDIMENT: BRK 5 BLD 5 COB 45 PEB 25 GRN 20 SAN - MUD - VEG -

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

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

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

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

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

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

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

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

SUBSURFACE DATA

SEGMENT ID: ER-007 SUBDIV: 226-50
16428

PIT # 1 PIT DEPTH 12 OIL CHARACTER OR OIL INTVAL: FROM 0 TO 6
QUANT: UC OIL CLR: DBL FLM CLR: RW ZONE: SU X UI - MI - LI -
SUBSURF SEDIMENT: BRK - BLD - COB X PEB X GRN - SAN X MUD - VEG -

PIT # 2 PIT DEPTH 10 OIL CHARACTER NO OIL INTVAL: FROM - TO -
QUANT: UC OIL CLR: - FLM CLR: - ZONE: SU - UI X MI - LI -
SUBSURF SEDIMENT: BRK - BLD - COB X PEB X GRN - SAN X MUD - VEG -

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

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

PIT #____ PIT DEPTH____ OIL CHARACTER____ OIL INTVAL: FROM____ TO____
QUANT:____ OIL CLR:____ FLM CLR:____ ZONE: SU____ UI____ MI____ LI____
SUBSURF SEDIMENT: BRK BLD COB PEB GRN SAN MUD VEG

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

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: _____

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/ ER-07 STREAM NO: 226-50-16428 DATE 4/20/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
1B Salmon stream mouth - spawning (7/10 to 8/31)
1F Sawmill Bay Hatchery release (4/15 to 6/1)
6Y Recreation: Special use destination
7II Subsistence area: Deer harvesting (8/15 to 2/28)
9EE Set aside

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to uncoiled biota and substrate. Subject stream is located in Subdivision A (1 of 1).

ARCHAEOLOGICAL CONSTRAINTS:

If cultural resources are uncovered during shoreline treatment, stop work in the vicinity, mark the location of the find and contact a member of Exxon's Cultural Resource Program immediately (564-3657; 564-3658 or 564-3276).

SHPO SIGNATURE: J. David McManis DATE: 5/8/90

Subsurface Oil Observed: Yes X No Maximum Depth 6 cm

RECOMMENDATIONS:

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

COMMENTS: Recommended treatment includes manual removal of pavement and mousse patties as indicated on sketch map. Work should be conducted between 6/1 and 7/10 based on constraints.

TAG COMMENTS:

TAG APPROVAL DATE: 5/7/90

ADEC Art Wether Art Wether

EXXON Andy Tarr Andy Tarr

NOAA Gary R. Jones Gary R. Jones

USCG G.A. Reiter G.A. Reiter

FOSC: WJL DATE: 5-15-90

ACE 7237462

*Processed
4/18*

RECEIVED
APR 16 1990

DEPT. OF
ENVIRONMENTAL CONSERVATION

REGION: PRINCE WILLIAM SOUND

SEGMENT: ST/ER-07

SUBDIVISIONS: A (1 OF 1)

Cancer Epid

SHORELINE EVALUATION

SEGMENT ST/ ER-07 SUBDIVISION A (1 OF 1) DATE 4/4/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

ADF&G Anadromous stream no. 226-50-16428

1A Salmon stream mouth - fry outmigration (3/1 to 5/15)

1B Salmon stream mouth - spawning (7/10 to 8/31)

1F Sawmill Bay Hatchery release (4/15 to 6/1)

6Y Recreation: Special use destination

7II Subsistence area: Deer harvesting (8/15 to 2/28)

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to unoiled biota and substrate.

ARCHAEOLOGICAL CONSTRAINTS:

If cultural resources are uncovered during shoreline treatment, stop work in the vicinity, mark the location of the find and contact a member of Exxon's Cultural Resource Program immediately (564-3657; 564-3658 or 564-3276).

SHPO SIGNATURE: _____ DATE: _____

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 923 m: V.Light 99 m: No Oil 0 m
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: _____ Breakup	☐ Beach Cleaner
☒ Removal	☐ Other (see comments)

COMMENTS: Recommend manual removal of tarmat and asphalt patches followed by bioremediation. Work should be conducted between 6/2 and 7/9 based on above salmon constraints. No treatment should be performed at the Special Study site (Exxon AP-16) on the east shore of the small islet (see sketch map); Contact SCAT office for specific restrictions (564-3660).

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____

EXXON _____

NOAA _____

USCG _____

FOSC: _____ DATE: _____

ACE 7237464

PWS, SEWARD AND HOMER ECOLOGICAL CONSTRAINTS

1A ~~Salmon spawning area (4/1 to 6/1)~~
1B ~~Salmon spawning area (4/1 to 6/1)~~

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 Esther Hatchery release (4/15 to 6/1)

1E Main Bay Hatchery release (4/20 to 5/10)

1F Seward Bay Hatchery release (4/15 to 6/1)

1G Cannery Creek Hatchery release (4/21 to 6/1)

1H Remote release site

1I Gill net area (6/7 to 8/31)

1J Purse seine area (7/20 to 9/30)

1K Purse seine hook-off (7/20 to 9/30)

1L Set net sites (6/11 to 7/25)

For Codes 1C through 1L contact ADF&G for specific dates, locations and constraints.

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

Restrict boat traffic to essential minimum. Avoid damage to uncultivated intertidal and subtidal algae and seagrass. Contact ADF&G for specific dates and locations.

3N, 3P Harbor seal and sea lion pupping (5/15 to 7/1)

3O, 3Q Harbor seal and sea lion molting (8/15 to 9/15)

Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.

5R Seabird colony (5/1 to 9/1)

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 (5/1 to 9/30)

7HH Finfish harvesting

7I Deer harvesting (5/15 to 2/25)

7JJ Invertebrate harvesting

For Codes 7Z through 7JJ contact ADF&G and Chenega Corporation for specific dates, locations, and constraints.

SEGMENT ST/ER-07 SUBDIVISION: A DATE 04 APRIL 90

USCG

NAME LARRY FLETCHER

SIGNATURE

☐ NO TREATMENT RECOMMENDED☒ TREATMENT SUGGESTED

COMMENTS

1. MANUALLY REMOVE ASPHALT AND TAR PATIES.

2. BIO-REMEDiate.

ADEC

NAME DAVID M. SALE

SIGNATURE

☐ NO TREATMENT RECOMMENDED☒ TREATMENT SUGGESTED

COMMENTS

① MANUALLY REMOVE ASPHALT AND TAR PATIES FROM SHORELINE OF ISLAND AND TOMBOLO.

TOMBOLO NEEDS TO BE TREATED/CLEANED AT A LOW TIDE TO ACCESS. TOMBOLO ALSO HAD A SHEEN OF OIL IN THE PIT, ESPECIALLY WHEN SURFACE SEDIMENTS FELL INTO PIT. THERE IS A COLOR DIFFERENCE (DARKER IN TOP 2 CM) BETWEEN SURFACE AND SUBSURFACE. THERE MAY BE MORE OIL IN THE TOMBOLO THEN JUST TAR BALLS/PATIES.

LAND MANAGER

NAME Leigh Carlson

SIGNATURE

 ADNR☐ NO TREATMENT RECOMMENDED☒ TREATMENT SUGGESTED

COMMENTS

Listed as priority 1 by PWSCA. Listed as public use area in the PWS area plan. Area used for recreation and subsistence deer harvesting. Recommend manual removal followed by bioremediation.

7 of 22

ACE 7237466

SHORELINE OILING SUMMARY

REVISION NO. 02/22/98

OG R. Marty USCG LARRY FLETCHER SEGMENT ST/ ER-07
 BIO S. Lumber LAND REP Lang. Carter SUBDIVISION A
 EXXON J. Garmick ADEC Dave Sale TIME 15:15 to 15:35
 TEAM NO.: 10 TIDE LEVEL: 0.5m (1.7') to 0.5m (1.7') DATE 04/04/90
 EST. SUBDIVISION LENGTH: 994 m ☐ Sun ☒ Clouds ☒ Fog ☒ Rain ☒ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: N to SE
 SURFACE SEDIMENTS: R 20 % B 10 % C 10 % P 15 % G 15 % S 40 % M 0 % V 0 %
 SLOPE: Lang 100 % Hang 0 % Vert 0 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 903 m VL 81 m NO 0 m

SURFACE OIL

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

PAVEMENT: H F (S) 496 sq. m by 2 cm

PATTIES / TARBALLS 1 BAGS

NEAR SHORE SHEEN? NO BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs	<u>2</u>		
Vegetation	<u>1</u>		
Trash			
Debris			

DEBRIS COLLECTED
☐ YES ☒ NO

TYPE

#BAGS

Photographs:

Roll No. 55/10/7

Frames 20-24

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (cm - cm)	BELOW		OIL / FILM COLOR					PIT ZONE				A N A	SUBSURFACE SEDIMENTS
		SPT. OF	RES. OF	LOC. OF	FILM OF	NO		UP	UC	1	2	3	4	5	SU	U	M	U		
1	15					X	.									X			N	L
2	20	X					0-1	X				X				X			N	G
3	10	X					0-2	X				X					X			G
4	25				X		0-1	?				X						X	Y	S
5	7	X					0-0.5	X								X				S
							.													

* Oiled interval less than 5cm in G/S sediments does not constitute subsurface oil.

COMMENTS

Asphalt $150 \times 2 \times 25\% (C) = 75$

$210 \times 3 \times 35\% (C) = 221$

$210 \times 2 \times 10\% (C) = 42$

$263 \times 3 \times 20\% (N) = 158$
 $4\% m^2$

Revision

RM 4/4/90

8 of 22

SHORELINE ECOLOGICAL SUMMARY

REVISION: 06/22/88

Segment ST/10/ER7 Subdivision A Date (mo / day / yr) 4/4/90

Time (24 hr) 1500 - 1600 Biologist Lemon Rain

(A) Substrate type and % of segments:
 (1) Bedrock 20 (2) Boulder (3) Cobble 10 (4) Pebble 15 (5) Sand 55 (6) Silt

(B) Overall % cover of biota (% of segment): Dense Moderate Low 20%

(C) Density, substrate preference (by number from A, above), & vertical zonation of major taxa: (upper-U; mid-M; low tidal-L); juveniles / adults (X), new settlement (3)

Photographs:
 Roll No. ST/10/7

Frames 20-24

BARNACLES

Dense			Moderate			Sparse			Rare			NOT PRESENT
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L	
2	2	2	2	2	2	2	2	2	2	2	2	
3	3	3	3	3	3	3	3	3	3	3	3	
4	4	4	4	4	4	4	4	4	4	X	4	
5	5	5	5	5	5	5	5	5	5	5	5	
6	6	6	6	6	6	6	6	6	6	6	6	

MYTILUS

Dense			Moderate			Sparse			Rare			NOT PRESENT
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L	
2	2	2	2	2	2	2	2	2	2	2	2	
3	3	3	3	3	3	3	3	3	3	3	3	
4	4	4	4	4	4	4	4	4	4	4	4	
5	5	5	5	5	5	5	5	5	5	5	5	
6	6	6	6	6	6	6	6	6	6	6	6	

GASTROPODS

Dense			Moderate			Sparse			Rare			NOT PRESENT
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L	
2	2	2	2	2	2	2	2	2	2	2	2	
3	3	3	3	3	3	3	3	3	3	3	3	
4	4	4	4	4	4	4	4	4	4	4	4	
5	5	5	5	5	5	5	5	5	5	5	5	
6	6	6	6	6	6	6	6	6	6	6	6	

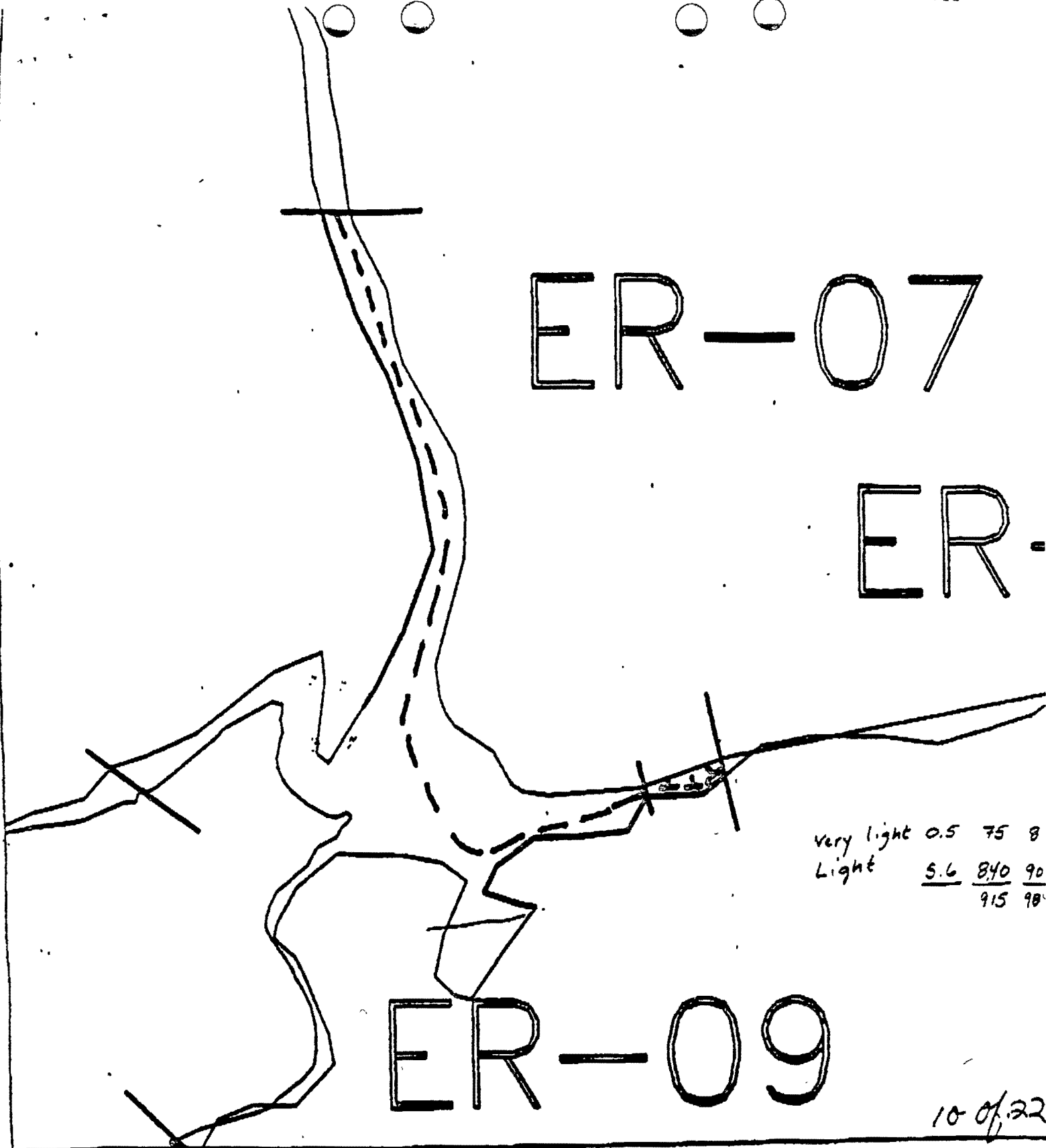
FUCUS

Dense			Moderate			Sparse			Rare			NOT PRESENT
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L	
2	2	2	2	2	2	2	2	2	2	2	2	
3	3	3	3	3	3	3	3	3	3	3	3	
4	4	4	4	4	4	4	4	4	4	4	4	
5	5	5	5	5	5	5	5	5	5	5	5	
6	6	6	6	6	6	6	6	6	6	6	6	

Wildlife Observations/ General Comments: In mid zone found nudibranch eggs, annelid worms, Spirorbis on Fucus. Deer and possibly Wolverine Tracks in snow.

Ecological Considerations: clam shells (Tresus sp.). from apparent raised bed as described for section 8. Hatchery release, spawning, deer harvest, set aside. Checked stream and found no fish or potential food.

11 of 22



XXXX Wide	ER-7	Map Key: PWS-173
//// Medium	ADEC Segment Length: 1022m	Name: <u>Richard Marty</u>
--- Narrow		Date: <u>04/04/90</u>
TTTT Very Light		Date Entered:
0000 No Oil		

0 100 200 300 METERS

ACE 7237470 -/5

ER007

500.0

mod → heavy

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

ADEC Sep/Oct 1989 Survey

ACE 7237473-14/AC/FF

ASC
16428

