

EV-003 ASC: 226-40-16590
Evans Point

ACE 1369552



- 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, 1990)
____ '90 ASAP Survey ____ ASAP Rec. ____ ADEC Rec. (____)
____ '90 Other Documents _____



13

OFFICIAL PHOTOGRAPH ADF&G EXXON VALDEZ OIL SPILL

OFFICE: VALDEZ

DATE: 09/20/89

TIME: -0-

226-40-16590

SEGMENT#: -0-

STATION#: -0-

LOCATION: EVANS ISLAND

EV003

REASON FOR TAKING PHOTO: C. AERIAL INTERTIDAL
(147°58'41"/60°08'29")

TAKEN BY: RICK GUSTIN

INITIALS: _____

ROLL #: 89RLG009V FRAME #: 13

EVIDENCE ID#: 10212

ACE 7237605

CATALOG NUMBER: 2264016590
 STREAM NAME:
 LOCATION: EVANS ISLAND, EVANS POINT

SEGMENT NUMBER: EV003 A
 SHORELINE TYPE:
 DATE: 04/11/90 TIME: COVE -1015

SITE	WIDTH (m)	LENGTH (m)	AREA (sqm)	PERCENT OIL	THICKNESS (cm)	PENETRATION (cm)	SURFACE SUBSURF	OIL TYPES	COMMENTS
1					6cm		SURFACE -SURFACE	CT CV PT	east side of stream - tar on rock $\frac{1}{4}$ " thick & less

COMMENTS:

SMALL AREA OF TAR-WEATHERED OIL ON CLIFFS N OF STREAM. SOME SPOTTING OF TAR ON ROCKS AT CLIFF BASE. NO OIL NOTED IN STREAM OR ON STREAM BANKS. RECOMMEND FOR ANADSCAT.

RECOMMENDATIONS: THIS TYPE OF OILING COULD BE REMOVED BY SMALL STEAM CLEANER.

STREAM BANKS: NO

MILE OF STREAM: YES

OIL ON
OIL WITHIN 1

CATALOG NUMBER: 2264016590
 STREAM NAME:
 LOCATION: EVANS ISLAND, EVANS POINT

SEGMENT NUMBER: EV003 A
 SHORELINE TYPE:
 DATE: 04/22/90 TIME: COVE -1845

SITE	WIDTH (m)	LENGTH (m)	AREA (sqm)	PERCENT OIL	THICKNESS (cm)	PENETRATION (cm)	SURFACE SUBSURF	OIL TYPES	COMMENTS
1				11-50	4-5cm		SURFACE	CT CV PT	east side of stream - tar patties & splatters
2				91-100	>1mm		SURFACE	CT CV	west side of stream - heavy tar on outcrop
3				11-50	4-5cm		SURFACE	CT PT	west stream bank - tar patties - UFRZ

COMMENTS:

THE SITE IS A SMALL POCKET COVE WITH A SMALL SEAWARD OPENING - BEDROCK OUTCROPS ON BOTH SIDES. THE OUTCROP TO THE WEST HAS SIGNIFICANT TAR COVERAGE ON VERTICAL SURFACES. SOME LIVING BIOTA WITHIN TARRED ZONES. TAR PATTIES AND MATS ARE SCATTERED IN THE UPPER INTERTIDAL ZONES ADJACENT TO BOTH BANKS OF THE STREAM CHANNEL.

RECOMMENDATIONS: REMOVAL OF TAR PATTIES AND SPLATTERS. LEAVE TAR ON OILED OUTCROP UNTREATED.

OIL ON STREAM BANKS: YES

WITHIN 1 MILE OF STREAM: YES

OIL



Pre-ANADSCAT-90 ^{ADW}

ADF&G MULTI-ASSESSMENT DATA FORM

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

METHOD: Aerial Ground Boat

3 DATE: 4/11/90 15 HIGH TIDE TIMES: 1 21 TEAM RECORDER: R. Kustin

4 START TIME: 10- 16 HIGH TIDE HTS: 1 22 OBSERVERS: 1

5 STOP TIME: 10:15 17 LOW TIDE TIMES: 1 23 AGENCY: ADFG L&B

6 SEGMENT #: EV 008 18 LOW TIDE HTS: 1 24 PHOTOS TAKEN: Y (N)

7 STATION #: 003 ADW 19 TIDE HT AT SURVEY: _____ Roll #: _____ Frame: _____

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

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

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

12 SOURCE: Map Loran Oil _____

13 LOCATION: Swamp Is. Sediment _____

14 DESCRIPTION: NE tip Peninsula Biological _____
pocket cove. 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 36 CATALOGED ANAD. FISH SREAM? 226-40-ADW (N)

31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain 37 CATALOG #: 16590

32 OILED DEBRIS? (Y) N 38 STREAM NAME: _____

33 SHORELINE TYPE: Headland Low-lying Rocks Beach Cove 39 OIL IN STREAM BED? Y (N)

34 WAVE EXPOSURE: High Moderate Low 40 OIL ON STREAM BANKS? Y (N) 1/4

35 SUBSTRATE TYPE: Bedrock ✓ Boulder Cobble 41 OIL ON BEACH ADJACENT TO MOUTH? (Y) (N)
(within 50 meters)

42 OIL WITHIN 1 MILE OF STREAM? (Y) (N)
Where: cliffs p. stream

43 ANADROMOUS FISH PRESENT? Y (N)

44 ANADROMOUS FISH OBSERVATION

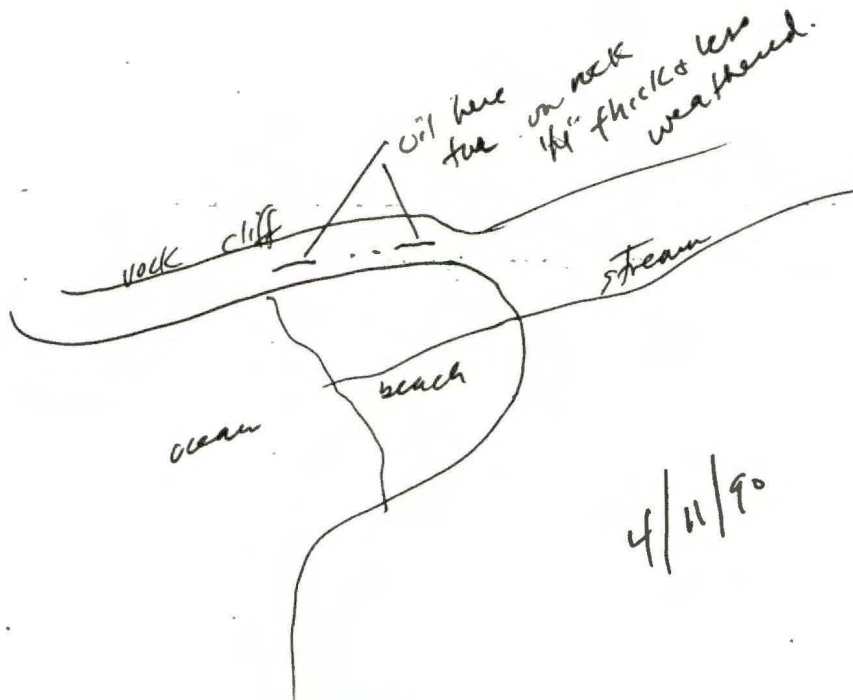
Species	Aerial	Ground

COMMENTS: Recommend for anadscat oil
Small area of tar-weathered on cliffs
No stream, some spotting of tar on rocks at
cliff base. No oil noted in stream or on
stream bank.

FRAME(S)

DESCRIPTION

46 OIL DISTRIBUTION DIAGRAM



Recommendation:
this type of oiling could be
removed by small steam cleaner

EV 008
003 ASW
286-40-16590

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: 226-40-16590

SURVEY TYPE:

METHOD:

DATE: 4/11/90

START TIME:

STOP TIME:

WAVE EXPOS:

TEAM RECORDER:

OBSERVERS:

AGENCY(IES):

PHOTOS TAKEN?

Roll #:

Frames:

VIDEO TAKEN?

Tape Number:

Counter Start:

SAMPLES TAKEN?

SAMPLE I.D. NUMBERS: 1.

2.

3.

4.

5.

6.

	LENGTH	WIDTH	M2	%	THICK	PEN	OIL TYPE
SITE 1					.005		CT/CV
SITE 2							ST
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:



ADF&G MULTI-ASSESSMENT

OILING
BOX?1 SURVEY TYPE: BS SS DS TS AVS SCHA MMS PTAMETHOD: Aerial Ground Boat3 DATE: 4/22/9015 HIGH TIDE TIMES: 1205 1 -21 TEAM RECORDER: V. WIEDMER4 START TIME: 181516 HIGH TIDE HTS: 10.0' 1 -22 OBSERVERS: T. CROWE5 STOP TIME: 184517 LOW TIDE TIMES: 0603 1 181423 AGENCY: ADF&G6 SEGMENT #: EV-00318 LOW TIDE HTS: 1.0' 1 0.7'24 PHOTOS TAKEN: Y N7 STATION #: 226-40-1659019 TIDE HT AT SURVEY: 0.7'

Roll #: _____ Frame: _____

8 K-UNIT: _____

Ebb Slack Flood Slack25 VIDEO TAKEN: Y N TAPE#: _____

9 STAT AREA: _____

20 USCG QUAD: SEWARD A3

Start: _____ End: _____

10 LAT: _____

11 LONG: _____

26 SAMPLES TAKEN? Y N Number

12 SOURCE: Map Loran

13 LOCATION: EVANS POINT

14 DESCRIPTION: _____

Oil _____

Sediment _____

Biological _____

Water _____

EXTENT OF OIL

	SHORELINE				STREAM			
	L	W	M ²	%	L	W	M ²	%
27 SURFACE COVERAGE	15	100		2	100	2		<1
28 SURFACE THICKNESS	1mm	1cm	2mm	<1mm				
29 PENETRATION	0	5cm	4cm					

36 CATALOGED ANAD. FISH STREAM? Y N37 CATALOG #: 226-40-16590

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 N30 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 _____ Boulder 33 Cobble 33
Gravel 33 Sand _____ Mud/silt _____

Where: _____

43 ANADROMOUS FISH PRESENT? Y N

FRY PRESUMED

44 ANADROMOUS FISH OBSERVATION
Species Aerial Ground

COMMENTS: THE SITE IS A SMALL POCKET COVE WITH A SMALL SEAWARDOPENING - BEDROCK OUTCROPS ON BOTH SIDES. THE OUTCROPTO THE WEST HAS SIGNIFICANT TAR COVERAGE ON VERTICALVERTICAL SURFACES. SOME LIVING BIOTA WITHIN TARRIED ZONES. TAR PATTIESAND MATS ARE SCATTERED IN THE UPPER INTERTIDAL ZONES ADJACENT TOBOTH BANKS OF THE STREAM CHANNEL.



ANADSCAT-90

ADF&G MULTI-ASSESSMENT DATA FORM

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

METHOD: Aerial Ground Boat

3 DATE: 4/22/90 15 HIGH TIDE TIMES: 1205 1 - 21 TEAM RECORDER: M. WIEDMER

4 START TIME: 1815 16 HIGH TIDE HTS: 10.0' 1 - 22 OBSERVERS: T. CROWE

5 STOP TIME: 1845 17 LOW TIDE TIMES: 0603 1 1814 23 AGENCY: ADF&G

6 SEGMENT #: EV-003 18 LOW TIDE HTS: 1.0' 1 0.7' 24 PHOTOS TAKEN: Y N

7 STATION #: 226-40-16590 19 TIDE HT AT SURVEY: 0.7' Roll #: _____ Frame: _____

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

9 STAT AREA: _____ 20 USCG QUAD: SEWARD A3 Start: _____ End: _____

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

12 SOURCE: Map Loran Oil _____

13 LOCATION: EVANS POINT Sediment _____

14 DESCRIPTION: _____ Biological _____

Water _____

EXTENT OF OIL

	SHORELINE				STREAM			
	L	W	M ²	%	L	W	M ²	%
27 SURFACE COVERAGE	15	100		2	100	2		<1
28 SURFACE THICKNESS	1mm	1cm	2mm	<1mm				
29 PENETRATION	0	5cm	4cm					
30 OVERALL OIL IMPACT:	N	VL	<u>L</u>	M	H			
31 OIL TYPE:	Pooled	Mousse	<u>Tar</u>	Asphalt	Sticky	Stain		
32 OILED DEBRIS?	Y	<u>N</u>						
33 SHORELINE TYPE:	Headland	Low-lying Rocks	Beach	<u>Cove</u>				
		Lagoon	Marsh					
34 WAVE EXPOSURE:	High	Moderate	<u>Low</u>					
35 SUBSTRATE TYPE:	Bedrock	Boulder	<u>33</u>	Cobble	<u>33</u>			
	Gravel	<u>33</u>	Sand		Mud/silt			

36 CATALOGED ANAD. FISH SREAM? Y N

37 CATALOG #: 226-40-16590

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

FRY PRESUMED

44 ANADROMOUS FISH OBSERVATION

Species	Aerial	Ground

COMMENTS: THE SITE IS A SMALL POCKET COVE WITH A SMALL SEAWARD OPENING - BEDROCK OUTCROPS ON BOTH SIDES. THE OUTCROP

TO THE WEST HAS SIGNIFICANT TAR COVERAGE ON VERTICAL SURFACES. SOME LIVING BIOTA WITHIN TARRIED ZONES. TAR PATTIES AND MATS ARE SCATTERED IN THE UPPER INTERTIDAL ZONES ADJACENT TO BOTH BANKS OF THE STREAM CHANNEL.

ACE 7237599+1/5

EV-003

200-40-16590

45 PHOTOLCC

F (S)

DESCRIPTION

RECOMMENDATIONS: REMOVAL OF TAR PATTIES AND
SPLATTERS. LEAVE TAR ON OILED OUTCROP
UNTREATED.

46 OIL DISTRIBUTION DIAGRAM

BEDROCK OUTCROP

15 meters →

↑
N

HEAVY
TAR ON
OUTCROP

BEDROCK

TAR PATTIES
& SPLATTERS

TAR
PATTIES

Sample taken
Photo frame # and
shot direction.

ACE 7237600-15

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: 226-40-16590

SURVEY TYPE:

METHOD:

DATE: 4/22/90

START TIME:

STOP TIME:

WAVE EXPOS:

TEAM RECORDER:

OBSERVERS:

AGENCY(IES):

PHOTOS TAKEN?

Roll #:

Frames:

VIDEO TAKEN?

Tape Number:

Counter Start:

SAMPLES TAKEN?

SAMPLE I.D. NUMBERS: 1.

2.

3.

4.

5.

6.

	LENGTH	WIDTH	M2	%	THICK	PEN	OIL TYPE
SITE 1							CT/cv
SITE 2							TB
SITE 3							TB
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:

ADF&G MAD OILING EXTENTS
(INCLUDES OG DATA)

PRINTED: 10/29/91 18:01:12

NON-DUCK STREAMS

PAGE 1

CATALOG NUMBER: 2264016590 SEGMENT#: EV003 A LOCATION: EVANS ISLAND, EVANS POINT							
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
04/11/90	PRE-ANADSCAT	1	SURFACE		.6	CT CV PT	EAST SIDE: TAR ON ROCK 1/4" THICK AND LESS.
MAD vs. OG: COMMENTS: SMALL AREA OF TAR-WEATHERED OIL ON CLIFFS N OF STREAM. SOME SPOTTING OF TAR ON ROCKS AT CLIFF BASE. NO OIL NOTED IN STREAM OR ON STREAM BANKS. RECOMMEND FOR ANADSCAT.							

CATALOG NUMBER: 2264016590 SEGMENT#: EV003 A LOCATION: EVANS ISLAND, EVANS POINT							
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
04/22/90	ANADSCAT	1	SURFACE	11-50	4-5	PT	EAST SIDE: TAR PATTIES AND SPLATTERS IN UITSZ.
04/22/90	ANADSCAT	2	SURFACE	91-100	<.1	CV	WEST SIDE: HEAVY TAR ON OUTCROP.
04/22/90	ANADSCAT	3	SURFACE	11-50	4-5	PT	WEST STREAM BANK: TAR PATTIES IN UITSZ.
MAD vs. OG: COMMENTS: THE SITE IS A SMALL POCKET COVE WITH A SMALL SEAWARD OPENING - BEDROCK OUTCROPS ON BOTH SIDES. THE OUTCROP TO THE WEST HAS SIGNIFICANT TAR COVERAGE ON VERTICAL SURFACES. SOME LIVING BIOTA WITHIN TARRED ZONES. TAR PATTIES AND MATS ARE SCATTERED IN THE UPPER INTERTIDAL ZONES ADJACENT TO BOTH BANKS OF THE STREAM CHANNEL. OIL ON STREAM BANKS. RECOMMENDATIONS: REMOVAL OF TAR PATTIES AND SPLATTERS. LEAVE TAR ON OILED OUTCROP UNTREATED.							

CATALOG NUMBER: 2264016590 SEGMENT#: EV003 A LOCATION: EVANS ISLAND, EVANS POINT							
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS

04/22/90	OG'S ANADSCAT	1	1 x 4 SURFACE	51-90	4	PT	EAST BANK: BROKEN TAR PATTIES AND COAT IN MITZ.
04/22/90	OG'S ANADSCAT	2	2 x 30 SURFACE	11-50	<.1	CT ST	WEST BANK: PATCHY COAT AND STAIN IN MITZ.
04/22/90	OG'S ANADSCAT	3	3 x 20 SURFACE	51-90	.1	CV CT ST	EAST SIDE: BROKEN COVER, COAT AND STAIN IN MITZ.

MAD vs. OG: MAD SKETCH SHOWS TAR PATTIES ON WEST SIDE OF STREAM, OG DOES NOT.
COMMENTS:

ADF&G MAD OILING EXTENTS
(INCLUDES OG DATA)

EV71 Anadscat?
Pre Anadscat?

DATE PRINTED: 10/17/91

NON-DUCK STREAMS

PAGE 1

CATALOG NUMBER: 2264016590 SEGMENT#: EV003 A LOCATION: EVANS ISLAND, EVANS POINT							SEQ:
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
04/11/90	PRE-ANADSCAT	1	SURFACE		.6	CT CV PT	EAST SIDE: TAR ON ROCK 1/4" THICK AND LESS.

MAD vs. OG:

COMMENTS:

SMALL AREA OF TAR-WEATHERED OIL ON CLIFFS N OF STREAM. SOME SPOTTING OF TAR ON ROCKS AT CLIFF BASE. NO OIL NOTED IN STREAM OR ON STREAM BANKS. RECOMMEND FOR ANADSCAT. ~~RECOMMENDATIONS: THIS TYPE OF OILING COULD BE REMOVED BY SMALL STEAM CLEANER.~~

CATALOG NUMBER: 2264016590 SEGMENT#: EV003 A LOCATION: EVANS ISLAND, EVANS POINT							SEQ:
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
04/22/90	ANADSCAT	1	SURFACE	11-50	4-5	PT	EAST SIDE: TAR PATTIES AND SPLATTERS IN UITS.
04/22/90	ANADSCAT	2	SURFACE	91-100	<.1	CV	WEST SIDE: HEAVY TAR ON OUTCROP.
04/22/90	ANADSCAT	3	SURFACE	11-50	4-5	PT	WEST STREAM BANK: TAR PATTIES IN UITS.

MAD vs. OG:

COMMENTS:

THE SITE IS A SMALL POCKET COVE WITH A SMALL SEAWARD OPENING - BEDROCK OUTCROPS ON BOTH SIDES. THE OUTCROP TO THE WEST HAS SIGNIFICANT TAR COVERAGE ON VERTICAL SURFACES. SOME LIVING BIOTA WITHIN TARRIED ZONES. TAR PATTIES AND MATS ARE SCATTERED IN THE UPPER INTERTIDAL ZONES ADJACENT TO BOTH BANKS OF THE STREAM CHANNEL. OIL ON STREAM BANKS. RECOMMENDATIONS: REMOVAL OF TAR PATTIES AND SPLATTERS. LEAVE TAR ON OILED OUTCROP UNTREATED.

CATALOG NUMBER: 2264016590 SEGMENT#: EV003 A LOCATION: EVANS ISLAND, EVANS POINT							SEQ:
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS

04/22/90	OG'S ANADSCAT	1	1 x 4 SURFACE	51-90	4	PT	EAST STREAM BANK : BROKEN TAR PATTIES AND COAT - MITZ.
04/22/90	OG'S ANADSCAT	2	2 x 30 SURFACE	11-50	<.1	CT ST	WEST STREAM BANK : PATCHY COAT AND STAIN - MITZ.
04/22/90	OG'S ANADSCAT	3	3 x 20 SURFACE	51-90	.1	CV CT ST	EAST SIDE OF STREAM : BROKEN COVER, COAT AND STAIN - MITZ.

MAD vs. OG: MAD SKETCH SHOWS TAR PATTIES ON WEST SIDE OF STREAM, OG DOES NOT.
COMMENTS:

Pre-ANADSCAT-90 ^{ATW}

ADF&G MULTI-ASSESSMENT DATA FORM

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

2 REGION: PWS KP,CI K,AP

METHOD: Aerial Ground Boat

3 DATE: 4/11/90

15 HIGH TIDE TIMES: 1

21 TEAM RECORDER: R. Gustin

4 START TIME: 10 -

16 HIGH TIDE HTS: 1

22 OBSERVERS: 1

5 STOP TIME: 10:15

17 LOW TIDE TIMES: 1

23 AGENCY: ADFG HAB

6 SEGMENT #: EV 008

18 LOW TIDE HTS: 1

24 PHOTOS TAKEN: Y (N)

7 STATION #: 003ASW

19 TIDE HT AT SURVEY: 1

Roll #: 1 Frame: 1

8 K-UNIT: 1

Ebb Slack Flood Slack

25 VIDEO TAKEN: Y (N) TAPE#: 1

9 STAT AREA: 1

20 USCG QUAD: 1

Start: 1 End: 1

10 LAT: 1

11 LONG: 1

26 SAMPLES TAKEN? Y (N) Number 1

12 SOURCE: Map Loran

Oil

13 LOCATION: Swampy Is.

Sediment

14 DESCRIPTION: NE tip peninsula
pothole cove.

Biological

Water

EXTENT OF OIL

SHORELINE

L W M² %

STREAM

L W M² %

27 SURFACE COVERAGE

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

36 CATALOGED ANAD. FISH STREAM? (N)

37 CATALOG #: 16590

38 STREAM NAME: 1

28 SURFACE THICKNESS

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

39 OIL IN STREAM BED? Y (N)

29 PENETRATION

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

40 OIL ON STREAM BANKS? Y (N)

30 OVERALL OIL IMPACT: N VL L M H

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

31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain

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

32 OILED DEBRIS? (Y) N

Where: cliffs p. stream

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

43 ANADROMOUS FISH PRESENT? Y (N)

34 WAVE EXPOSURE: High Moderate Low

44 ANADROMOUS FISH OBSERVATION

Species Aerial Ground

35 SUBSTRATE TYPE: Bedrock ✓ Boulder Cobble

Gravel ✓ Sand Mud/silt

Recommend for anadscat oil

COMMENTS: Small area of tar-weathered on cliffs

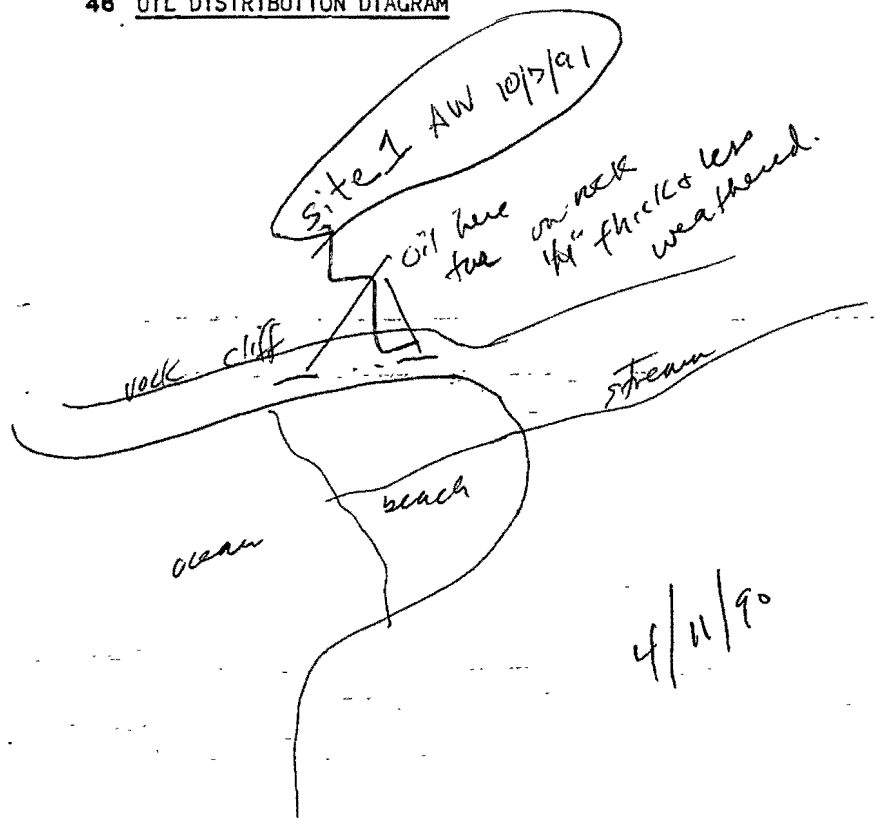
No stream. some spotting of tar on rocks at
cliff base. No oil noted in stream or on
stream bank.

ACE 7237601+1S

FRAME(S)

DESCRIPTION

46 OIL DISTRIBUTION DIAGRAM



Recommendation:
this type of oiling could be
removed by small steam cleaner

EV 008
003 AW
286-40-16590

= Sample taken
= Photo frame # and
shot direction.

ACE 7237602-14/S/AC/FF

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: 4/22/9015 HIGH TIDE TIMES: 1205 1 —21 TEAM RECORDER: M. WIEDMER4 START TIME: 181516 HIGH TIDE HTS: 10.0' 1 —22 OBSERVERS: T. CROWE5 STOP TIME: 184517 LOW TIDE TIMES: 0603 1 181423 AGENCY: ADF&G6 SEGMENT #: EV-00318 LOW TIDE HTS: 1.0' 1 0.7'24 PHOTOS TAKEN: Y N7 STATION #: 226-40-1659019 TIDE HT AT SURVEY: 0.7'

Roll #: _____ Frame: _____

8 K-UNIT: _____

Ebb Slack Flood Slack25 VIDEO TAKEN: Y N TAPE#: _____

9 STAT AREA: _____

20 USCG QUAD: SEWARD A3

Start: _____ End: _____

10 LAT: _____

11 LONG: _____

26 SAMPLES TAKEN? Y N Number _____

12 SOURCE: Map Loran

13 LOCATION: EVANS POINT

14 DESCRIPTION: _____

Oil _____

Sediment _____

Biological _____

Water _____

EXTENT OF OIL

	SHORELINE				STREAM			
	L	W	M ²	%	L	W	M ²	%
27 SURFACE COVERAGE	15	100		2	100	2		<1

36 CATALOGED ANAD. FISH SREAM? Y N37 CATALOG #: 226-40-16590

38 STREAM NAME: _____

28 SURFACE THICKNESS	1mm	1cm	2mm	<1mm		
----------------------	-----	-----	-----	------	--	--

39 OIL IN STREAM BED? Y N

29 PENETRATION	0	5cm	4cm			
----------------	---	-----	-----	--	--	--

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

Where: _____

33 SHORELINE TYPE: Headland Low-lying Rocks Beach Cove
Lagoon Marsh43 ANADROMOUS FISH PRESENT? Y N34 WAVE EXPOSURE: High Moderate LowFRY PRESUMED

44 ANADROMOUS FISH OBSERVATION

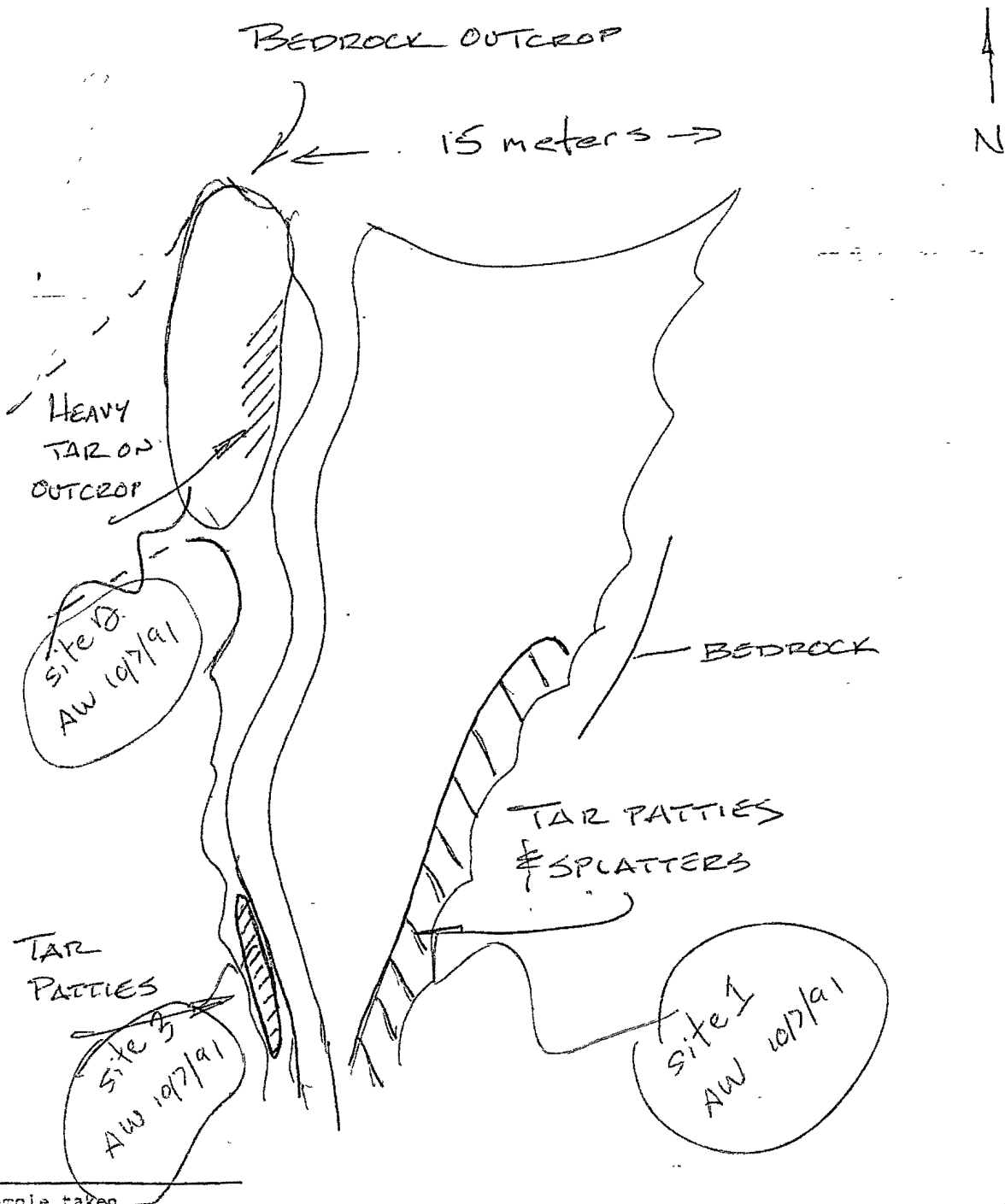
Species Aerial Ground

35 SUBSTRATE TYPE: Bedrock _____ Boulder 33 Cobble 33Gravel 33 Sand _____ Mud/silt _____

COMMENTS: THE SITE IS A SMALL POCKET COVE WITH A SMALL SEAWARD OPENING - BEDROCK OUTCROPS ON BOTH SIDES. THE OUTCROPTO THE WEST HAS SIGNIFICANT TAR COVERAGE ON VERTICALSURFACES. SOME LIVING BIOTA WITHIN TARRIED ZONES. TAR PATTIESAND MATS ARE SCATTERED IN THE UPPER INTERTIDAL ZONES ADJACENT TOBOTH BANKS OF THE STREAM CHANNEL.

FRAME(S)	DESCRIPTION
	RECOMMENDATIONS: REMOVAL OF TAR PATTIES AND SPLATTERS. LEAVE TAR ON OILED OUTCROP UNTREATED

46 OIL DISTRIBUTION DIAGRAM



Sample taken
Photo frame # and
shot direction.

ACE 7237600-15

OPERATIONS FIELD NOTES

See Back for Instructions

24/55

SEGMENT ID ANAD EV-003
 STREAM ID # 226-40-16590
 ANNOTATED MAP INCLUDED YIN

DATE 4-22-90
 NAME GARCIA
 TEAM # 15

SURFACE OIL	Quantities in Meters			Treatment Recommendation						
	Length	Width	Area	None	Bioremediation		Tilling		Spot Hot Water	
					Y/N	% Treat	Y/N	% Treat	Y/N	% Treat
Wide Band										
Medium Band <u>AREA 'B'</u>	<u>30</u>	<u>2</u>	<u>60</u>	<u>✓</u>						
Narrow Band <u>AREA 'C'</u>	<u>20</u>	<u>3</u>	<u>60</u>	<u>✓</u>						
Very Light										
TOTAL MANDAYS						<u>0</u>		<u>0</u>		<u>0</u>

SUBSURFACE OIL NONE

Other (Describe)?	

TARMATS	Quantities in Meters			Treatment Rec			# of Bags	Mandays Required	
	Length	Width	Thick(cm)	None	Breakup	Remove		Breakup	Remove
Area #1	<u>6</u>	<u>1</u>	<u>4</u>			<u>✓</u>	<u>10</u>		<u>2</u>
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								
"Pocket" #2	<u>NONE</u>							
"Pocket" #3								
Random/Continuous								

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

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

GENERAL
 Wave Exposure H/M/L Snow covering 0 % of the Supratidal Zone?
 Access Limitations: NONE
 Snare Boom/Pom Poms Recommended? NO
 Would the production Craft have to be relocated to complete work on this subdivision? YIN # of Times

COMMENTS:
RECOMMEND MANUAL REMOVAL OF TARMATS AS PER ATTACHED MAP. NO OTHER TREATMENT RECOMMENDED.

ACE 7237570+15/AC

SKETCH MAP

SEGMENT ST/ EVO03

STREAM 226-40-16540

DATE 22, APR 90

CHECKLIST

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

LEGEND

1 Δ

Plt - No Subsurface OM

2 ▲
Pit - Subsurface Oil

CT/C
Continuous Distribution

CT/B

Broken Distribution

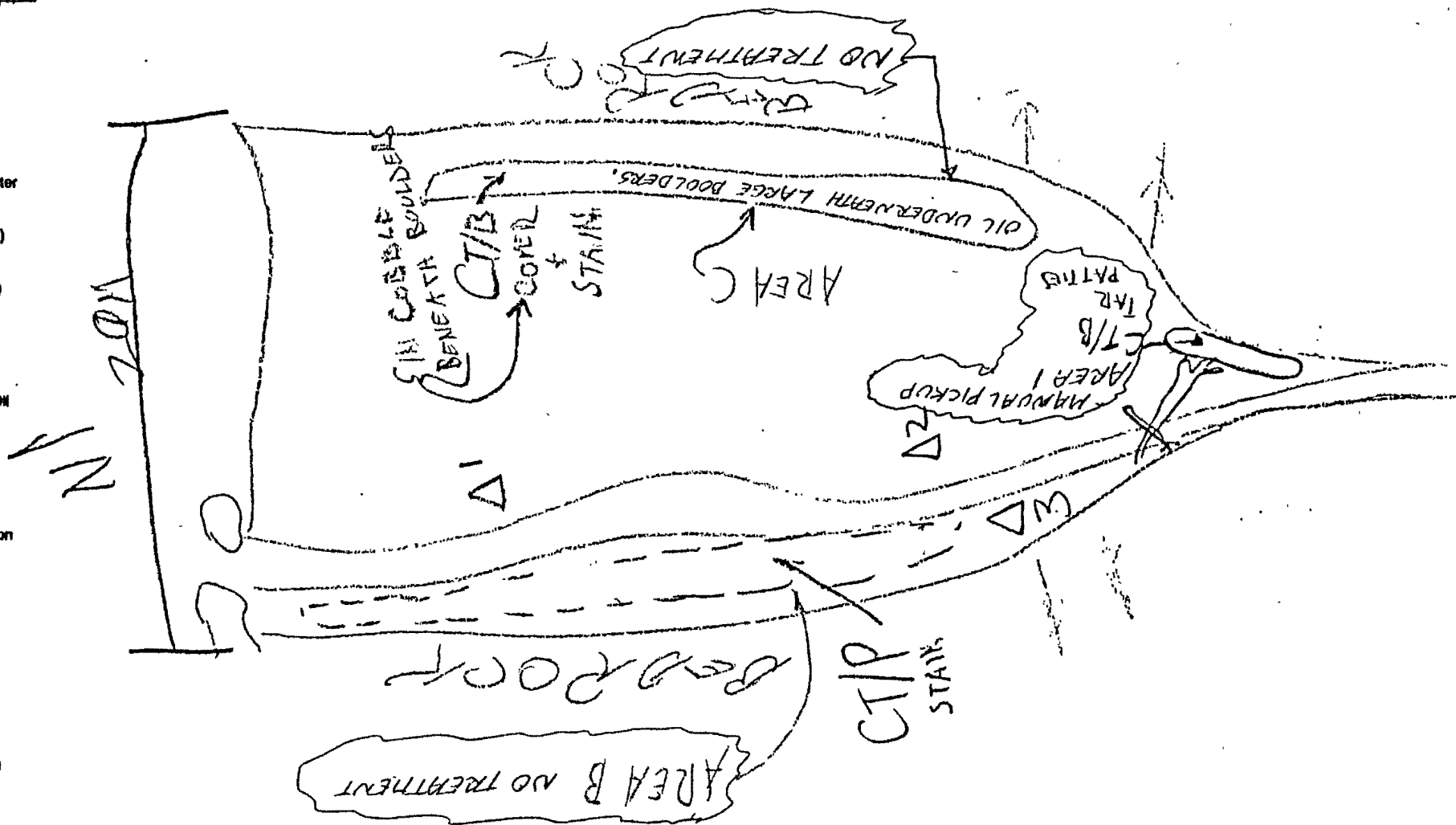
CT/P
Patchy Distribution

CT/S
Splashed Distribution

Oil Vegetation

1 

Photo location, direction,
and number



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

REVISION:03/24/90

ACE 7237571

26/55

FIELD SHORELINE COMMENT SHEET

SEGMENT ST 1 EV 003 SUBDIVISION: 16690 DATE 4/22/90

USCG

NAME CWO Mc NAHON SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED
COMMENTS

1. MANUAL CLEAN-UP; REMOVE TAR MATS
2. Bioremediation at BOULDERS (see map)

~~ADFG~~ Michael WIEDMER

~~ADEC~~
NAME no team member SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED
COMMENTS

BIOREMEDIATION NOT SUGGESTED.

LAND MANAGER

NAME no team member SIGNATURE _____

☐ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED
COMMENTS

27/55

ACF&G MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS SS CS TS AVS SCHA MMS PTA2 REGION: PKS KP,CI K,APMETHOD: Aerial Ground Boat3 DATE: 4/22/9015 HIGH TIDE TIMES: 1205 1 -21 TEAM RECORDER: M. WIEDMER4 START TIME: 181516 HIGH TIDE HTS: 10.0' 1 -22 OBSERVERS: T. CROWE5 STOP TIME: 184517 LOW TIDE TIMES: 0603 1 181423 AGENCY: ADF&G6 SEGMENT #: EV-00318 LOW TIDE HTS: 1.0' 1 0.7'24 PHOTOS TAKEN: Y N7 STATION #: 226-40-1659019 TIDE HT AT SURVEY: 0.7'

Roll #: _____ Frame: _____

8 K-UNIT: _____

Ebb Slack Flood Slack25 VIDEO TAKEN: Y N TAPE#: _____

9 STAT AREA: _____

20 USCG QUAD: SEWARD A3

Start: _____ End: _____

10 LAT: _____

11 LONG: _____

26 SAMPLES TAKEN? Y N Number _____

12 SOURCE: Map Loran

011 _____

13 LOCATION: EVANS POINT

Sediment _____

14 DESCRIPTION: _____

Biological _____

Water _____

EXTENT OF OIL

	SHORELINE				STREAM			
	L	W	M ²	%	L	W	M ²	%
27 SURFACE COVERAGE	15	100		2	100	2		<1

36 CATALOGED ANAD. FISH SREAM? Y N37 CATALOG #: 226-40-16590

38 STREAM NAME: _____

28 SURFACE THICKNESS	1mm	1cm	2mm	<1mm			
----------------------	-----	-----	-----	------	--	--	--

39 OIL IN STREAM BED? Y N

29 PENETRATION	0	5cm	4cm				
----------------	---	-----	-----	--	--	--	--

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

Where: _____

33 SHORELINE TYPE: Headland Low-lying Rocks Beach Cove
Lagoon Marsh43 ANADROMOUS FISH PRESENT? Y NFRY PRESUMED34 WAVE EXPOSURE: High Moderate Low

44 ANADROMOUS FISH OBSERVATION

35 SUBSTRATE TYPE: Bedrock _____ Boulder 33 Cobble 33

Species Aerial Ground

Gravel 33 Sand _____ Mud/silt _____

COMMENTS: THE SITE IS A SMALL POCKET COVE WITH A SMALL SEAWARD
OPENING - BEDROCK OUTCROPS ON BOTH SIDES. THE OUTCROP
TO THE WEST HAS SIGNIFICANT TAR COVERAGE ON VERTICAL
SURFACES. SOME LIVING BIOTA WITHIN TARED ZONES. TAR PATTIES
AND MATS ARE SCATTERED IN THE UPPER INTERTIDAL ZONES ADJACENT TO
BOTH BANKS OF THE STREAM CHANNEL.

ACE 7237573

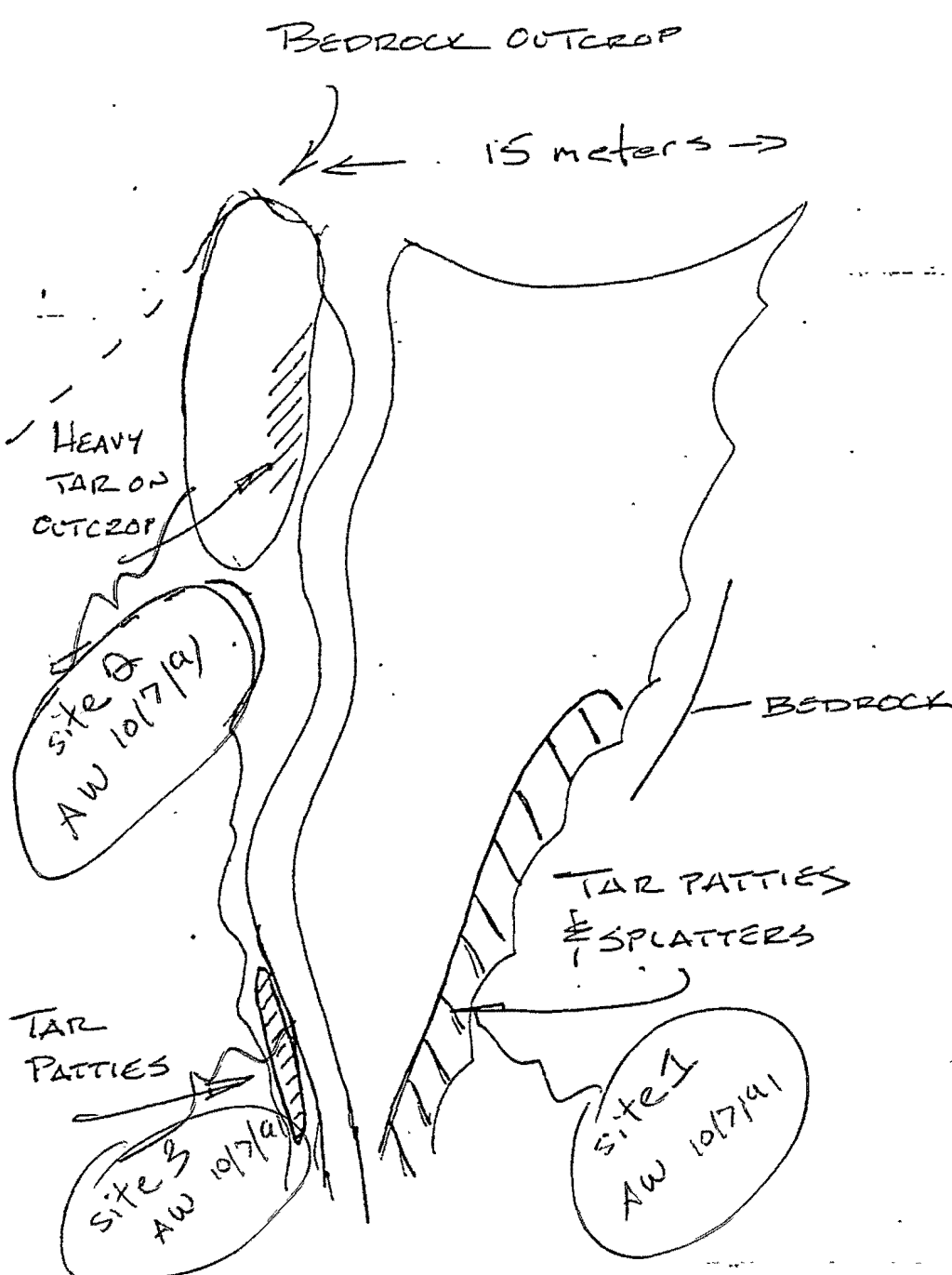
FRAME(S)

DESCRIPTION

RECOMMENDATIONS: REMOVAL OF TAR PATTIES AND
SPLATTERS. LEAVE TAR ON OILED OUTCROP
UNTREATED

I agree with recommendations. *W H Fawcett*

48 OIL DISTRIBUTION DIAGRAM



sample taken
photo frame # and
not direction.

ACE 7237574

SHORELINE OILING SUMMARY (ANAD.) 29/55 REVISION NO. 04

OG WILLIAM LEID USCG McMAHON SEGMENT ST/ EY003
 BIO MICHAEL FAWCETT LAND REP TOM COWE ADFG STREAM 226-40-165901 OF
 EXXON GUS GARCIA ADFG MIKE WIEDMER TIME 18:20 to 18:40
 TEAM NO. 15 TIDE LEVEL 1st DATE 22 / APR / 90
 EST. SUBDIVISION LENGTH: 3.0 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☐ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R 0 % B 20 % C 40 % P 40 % G 0 % S 0 % M 0 % V
 SLOPE: Lang 0 % Hang 0 % Ver 0 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 3 m VL 2 m NO 15

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR					IMPACTED ZONES			
	IC	IS	IF	IS	SP	PR	OR	OL	TL	SU	U	M	U
ASPHALT PAVEMENT													
POOLED													
COVER													
COAT													
STAIN			X				X					X	
MOUSSE													
PATTIES													
TARBALLS			X				X					X	
FILM													
NO OIL													

PAVEMENT H F S 0 sq. m by 0

PATTIES / TARBALLS _____ BAC

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. _____

Frames _____

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL	BELOW		OIL / FILM COLOR					PIT ZONE				A N A	SHEEN (Y/N)	V	SURFACE SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UO	UC	SP	PR	OR	OL	TL	SU	U	M	U				
1	30					X	.									X				N		P/C
2	15					X	.									X				N		P/C/G
3	10					X	.									X				N		P/C/B
							.															
							.															
							.															

COMMENTS

REVIEWED _____ DATE _____

ACE 7237575

OG WILLIAM REID

SEGMENT ST/ EVO03

STREAM 226-40-16590

DATE 22 APR 90

CHECKLIST

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

LEGEND

1 Δ

PII - No Subsurface Off

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

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

REVISION: 03/24/90

SKETCH MAP

Site 3
Δw 10/5/91

AW 5/22 I
10/7/21

AREA C

IN CORRELATION
BENEATH
CIB
→ MOVED

2000

CT/B
IAR
PART II

CT/P STAIN

AREA B

5762
10/7/91

2011

1
△

22

△ M

ANADSCAT
SSAT DATA ENTRY FORM

PAGE 1 OF 2

3/55

GENERAL DATA

SEG ID: EV003 SUBDIV: ²²⁶⁻⁴⁰16590 TEAM: AS-15 SURVEY DATE: 4/22/90
PAVEMENT: CHAR — AREA 0 THICKNESS 0 TARBALLS 0
OILED: LGS — VEG — TRH — DBR — WAVE EXP: LW — MD X HG —
FAX RCVD: — DT: — AGENCY DISAGREE: —
EST SUBDIV LGTH: 20 OIL CATEGORY: W — M — N 3 VL 2 NO 15 U —

SURFACE DATA

SURFACE SEDIMENT: BRK 0 BLD 20 COB 40 PEB 40 GRN 0 SAN 0 MUD 0 VEG 0

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

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

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

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

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

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

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 2 OF 2SEGMENT ID: EV003 SUBDIV: 226-40-16590

PIT # 1 PIT DEPTH 30 OIL CHARACTER - OIL INTVAL: FROM 0 TO 0
QUANT: - OIL CLR: - FLM CLR: - ZONE: SU - UI - MI X LI -
SUBSURF SEDIMENT: BRK - BLD - COB X PEB X GRN - SAN - MUD - VEG -

PIT # 2 PIT DEPTH 15 OIL CHARACTER - OIL INTVAL: FROM 0 TO 0
QUANT: - OIL CLR: - FLM CLR: - ZONE: SU - UI - MI X LI -
SUBSURF SEDIMENT: BRK - BLD - COB X PEB X GRN X SAN - MUD - VEG -

PIT # 3 PIT DEPTH 10 OIL CHARACTER - OIL INTVAL: FROM 0 TO 0
QUANT: - OIL CLR: - FLM CLR: - ZONE: SU - UI - MI X LI -
SUBSURF SEDIMENT: BRK - BLD X COB X PEB X 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:

Segment EU 003

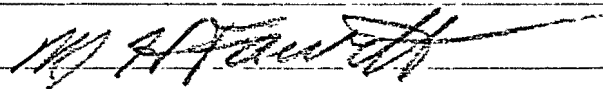
4/21/90

Stream 226-40-16590

Michael Fawcett

Ecological Summary

This small stream enters the sea via a 15m wide gravel/pebble/beach in a narrow cove with vertical bedrock on either side. The beach sediments are unstable and there is no macro-biota present. A mature, diverse community including barnacles, mussels, several species of limpets, littorines, whelks, algae, etc., exists on the vertical walls despite a remaining fairly heavy coat of weathered oil. No constraint: beach or stream bank cleanup, but I recommend leaving the vertical walls alone.



ASAP TAG Evaluations/Recommendations

TAG RECOMMENDATIONS

BA-02	A	Bioremediation and Reassessment 91
BA-06	C	*Reapplication Bioremediation
BA-07	A	NTR
CH-10	C	NTR - Reassessment 91
CH-13	A	Bioremediate - Inipol 90
EB-11	A	*Bioremediation and Reassessment 91
EL-55	B	*Reapplication Bioremediation
EL-55	C	*Reapplication Bioremediation
EL-56	A	*Reapplication Bioremediation
EL-58	B	*Reapplication Bioremediation
ER-08	A	Manual pickup of tarmats site 1-low priority
ER-09	A	Bioremediate reapply - middle of site 1
ER-11	A	*Manual rake and Bioremediation
EV-03	A	*Reapplication Bioremediation
EV-54	A	*Reapplication Bioremediation
FL-01	A	NTR - Completed by field crew
FL-04	A	*Manual rake and Bioremediation
FL-04	B	*Manual rake and Bioremediation
GR-01	A 1	*Reapplication Bioremediation
GR-01	A 2	*NTR - Reassessment 91
GR-01	A 3	*Reapplication Bioremediation
GR-01	B	*Reapplication Bioremediation
GR-02	A 1-3	*NTR
GR-07	A 1-2	NTR
KN-19	A 1	*Reapplication Bioremediation
KN-400	A	*Bioremediation reapply and assessment 91
KN-401	A 1	Pickup asphalt and mousse-moderate priority
KN-401	A 2	NTR set aside
LA-39	A 1	Manual remove asphalt - low priority

TAG		DATED:	08/09/90
EXXON	Andy Ten Deal		
ADEC	Ray Morris		
USCG	D. D. Rome	FOSC:	
NOAA	Burl Wescott	DATED:	10/5/90

NOTE: * - ALREADY SCHEDULED FOR REAPPLICATION

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						

Aimee Weseman
ADF&G/Habitat
Fish and Wildlife Tech
Oil Spill Response
M/V Corinthian

July 4, 1990

Re: Stream Report
ASC# 226-40-16590 Seg. EV 003 Iktua Bay, Evans I.

This lightly oiled anadromous fish stream had been treated and demobilized in June sometime without ADF&G's knowledge. I conducted a post treatment assessment of the stream on June 29, 1990 with Mike Cocklin USCG Cadet. A good treatment had been accomplished. I removed an additional 20 pounds of oiled material from the stream area and am satisfied with it's condition.

Aimee Weseman

Aimee Weseman

ANADROMOUS FISH STREAM EVALUATION ADDENDUM

CONSTRAINTS FOR STREAM NO. 226-40-16590

SEGMENT EV-3 SUBDIVISION A

WORK WINDOW

Manual Pickup

OPEN

ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

1A,1B Salmon Stream

ADF&G catalogued anadromous stream (226-40-16590) is in Subdivision A. No constraint to manual pickup.

1K Purse Seine Hook-off

No constraint to manual pickup.

5T Bald Eagle Nest

NO CONSTRAINT. USFWS 6/1/90 map indicates no active nest within 400m of Subdivision A work site.

7II Subsistence: Deer Harvesting

No constraint to manual pickup.

OTHER ECOLOGICAL CONSIDERATIONS

Restrict boat and air traffic and beach disturbance to essential minimum prior to 6/15 and after 8/15. No disturbance to stream bed or banks. Avoid any unnecessary disturbance or damage to uncoiled biota and substrate.

SEE SUBDIVISION CONSTRAINT ADDENDUM EV-3A
FOR ADDITIONAL CONSTRAINT INFORMATION.

FOSC

R. Zampieri

Date

2/3/90

Prepared by

W. Kelley

Date

7/3/90

ACE 7237581+1/SG

EV-04

EV-03

EV-02

EV-01

EV-05

ANAD
STREAM
226-40-16590

WORK
AREA

ANAD
STREAM
EVALUATION

EV-



Exxon Company, USA
Map Key: PMS-EV-3



ECOLOGY MAP
SEGMENT EV-3
SUBDIVISION A (___ of ___)
METERS

- | | |
|---|---------------------|
| ★ | Seabird Colony |
| ▲ | Active Eagle Nest |
| △ | Inactive Eagle Nest |
- ACE 7237582

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/ EV-03 STREAM NO: 226-40-16590 DATE 4/22/90

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)
 5T All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)
 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 uncoiled 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: J. David McMahon DATE: 5/8/90

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: Recommended treatment includes 1) manual pickup of tarballs and 2) ~~bioremediation of area of surface stain.~~ Work should be conducted between 6/1 and 7/10 based on eagle nest and salmon constraints with approval of USFWS regarding eagle nest and ADF&G regarding bio-remediation of stream banks.

See Constraint Addendum dated 7/3/90 WTRC

TAG COMMENTS:

TAG APPROVAL DATE: 5/7/90

ADEC Art Weir Art Weir

EXXON Andy Tork Andy Tork

NOAA Gary Petrac Gary Petrac

USCG G.A. Reiter G.A. Reiter

FOSC: W L DATE: 5-15-90

NOTIFY CUE 24 HRS PRIOR TO WORK.

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/ EV-03 STREAM NO: 226-40-16590 DATE 4/22/90

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)
5T All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)
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: J. David McManis DATE: 5/8/90

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

COMMENTS: Recommended treatment includes 1) manual pickup of tarballs and 2) bioremediation of area of surface stain. Work should be conducted between 6/1 and 7/10 based on eagle nest and salmon constraints with approval of USFWS regarding eagle nest and ADF&G regarding bioremediation of stream banks.

TAG COMMENTS:

TAG APPROVAL DATE: 5/7/90

ADEC Art Weimer Art Weimer

EXXON Andy TSK Paul

NOAA Gary Petros Gary Petros

USCG G.A. BETER G.A. Beter

FOSC: W L DATE: 5-15-90

NOTIFY CVC 24 HRS PRIOR TO WORK.

ACE 7237584+1S

*Processed
5/2/90
MK*

RECEIVED
MAY 03 1990

DEPT. OF
ENVIRONMENTAL CONSERVATION

ANADROMOUS FISH STREAM ASSESSMENT

REGION: PRINCE WILLIAM SOUND

SEGMENT: EV-03

STREAM NO: 226-40-16590

no concern - no bed for chain

TAG: no bed.

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/ EV-03 STREAM NO: 226-40-16590 DATE 4/22/90

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)
5T All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)
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 uncoiled 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: _____

Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

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

COMMENTS: Recommended treatment includes 1) manual pickup of tarballs and 2) bioremediation of area of surface stain. Work should be conducted between 6/1 and 7/10 based on eagle nest and salmon constraints with approval of USFWS regarding eagle nest and ADF&G regarding bioremediation of stream banks.

TAG COMMENTS: Delete 600,

TAG APPROVAL DATE: _____

ADEC _____
EXXON _____
NOAA _____
USCG _____

FOSC: _____ DATE: _____

ACE 7237586

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

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

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

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

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

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

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

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

1E Main Bay Hatchery release (4/20 to 6/15)

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

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

1H Remote release site

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

ADF&G Don Calkins 267-2403

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

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

AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377

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

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

AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377

ADF&G Tom Roth 267-2206

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

Active Bald Eagle nests (3/1 to 6/1)

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

AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377

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

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

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

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

Special use destination

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

7HH Finfish harvesting

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

26/55

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / EV 003 SUBDIVISION: 16690 DATE 4/22/90USCGNAME CWO Mc LATHAN SIGNATURE [Signature]☐ NO TREATMENT RECOMMENDED☒ TREATMENT SUGGESTED

COMMENTS

1. MANUAL CLEAN-UP; REMOVE TAR MATS
2. Bioremediation of BOULDERS (see map)

ADFG Michael WiednerADFGNAME NO Team member SIGNATURE [Signature]☐ NO TREATMENT RECOMMENDED☒ TREATMENT SUGGESTED

COMMENTS

BIOREMEDIATION NOT SUGGESTED.

LAND MANAGERNAME NO Team member SIGNATURE _____☐ NO TREATMENT RECOMMENDED☐ TREATMENT SUGGESTED

COMMENTS

OG WILLIAM LEID USCG McMAHON SEGMENT ST/ EY003
BIO MICHAEL FAWCETT LAND REP Tom CRAWFORD OF STRAIT 735-40-165101
EXXON Gus GARCIA ADPG MIKE WIDMER TIME 18:20 to 18:40
TEAM NO. 15 TIDE LEVEL Low DATE 22 / APR / 90
EST. SUBDIVISION LENGTH: 20 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
UPLANDS DESCRIPTION: ☐ Grass ☐ Forest ☒ Rock
SURVEYED FROM: ☐ Foot ☐ Boat ☐ Helo
SURFACE SEDIMENTS: R 0 % B 20 % C 40 % P 40 % G 0 % S 0 % M 0 % V 0 %
SLOPE: Long 0 % Hang 0 % Vert 0 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ Hg
OIL CATEGORY LENGTH: W 0 m M 0 m N 3 m VL 2 m NO 15

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR				IMPACTED ZONES			
	N	E	S	W	1	2	3	4	SW	SE	NE	NW
ASPHALT PAVEMENT												
POOLED												
COVER												
COAT												
STAIN			X			X					X	
MOUSSE												
PATTIES												
TARBALLS			X			X					X	
FILM												
NO OIL									X	X		X

PAVEMENT H F S 0 sq. m by 0

PATTIES / TARBALLS 1

NEAR SHORE SHEEN? NO BR RW SL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

Did you COL DEBRIS
☐ YES 5 CINC
TYPE _____
#BAGS _____

Photographs:

Roll No. _____

Frames _____

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL	BELOW		OIL / FILM COLOR				PIT ZONE				A N A	SHEEN (Y/N)	T	SURFAC SUBSURF. SEDIMEN
		OP	OR	OL	OF	NO		NO	NO	1	2	3	4	SW	SE	NE	NW				
1	30					X	.								X				N		P/C
2	15					X	.								X				N		P/C
3	10					X	.								X				N		P/C
							.														
							.														
							.														
							.														

COMMENTS

REVIEWED SW

DATE 4-25-90

ACE 7237589

SKETCH MAP

SEGMENT ST/ E 1003

STREAM 226-40-16590

DATE 27 APR 90

CHECKLIST

- _____ N Arrow
 _____ Approx. Scale
 _____ Depth/Grndy
 _____ Oil Dist.
 _____ Width
 _____ Length
 _____ % Cover
 _____ Substrate Character
 _____ Est. H2O/L/VOL
 _____ SNL
 _____ Profile Location(s)
 _____ Profile(s)
 _____ PE Location(s)
 _____ Photo Location(s)

LEGEND

14

PM - No Subsurface CW

14

PG - Submittal on CD

CT/C

Conclusions Discussion

CT/D

Crystalline Distribution

CTOP

Patchy Distribution

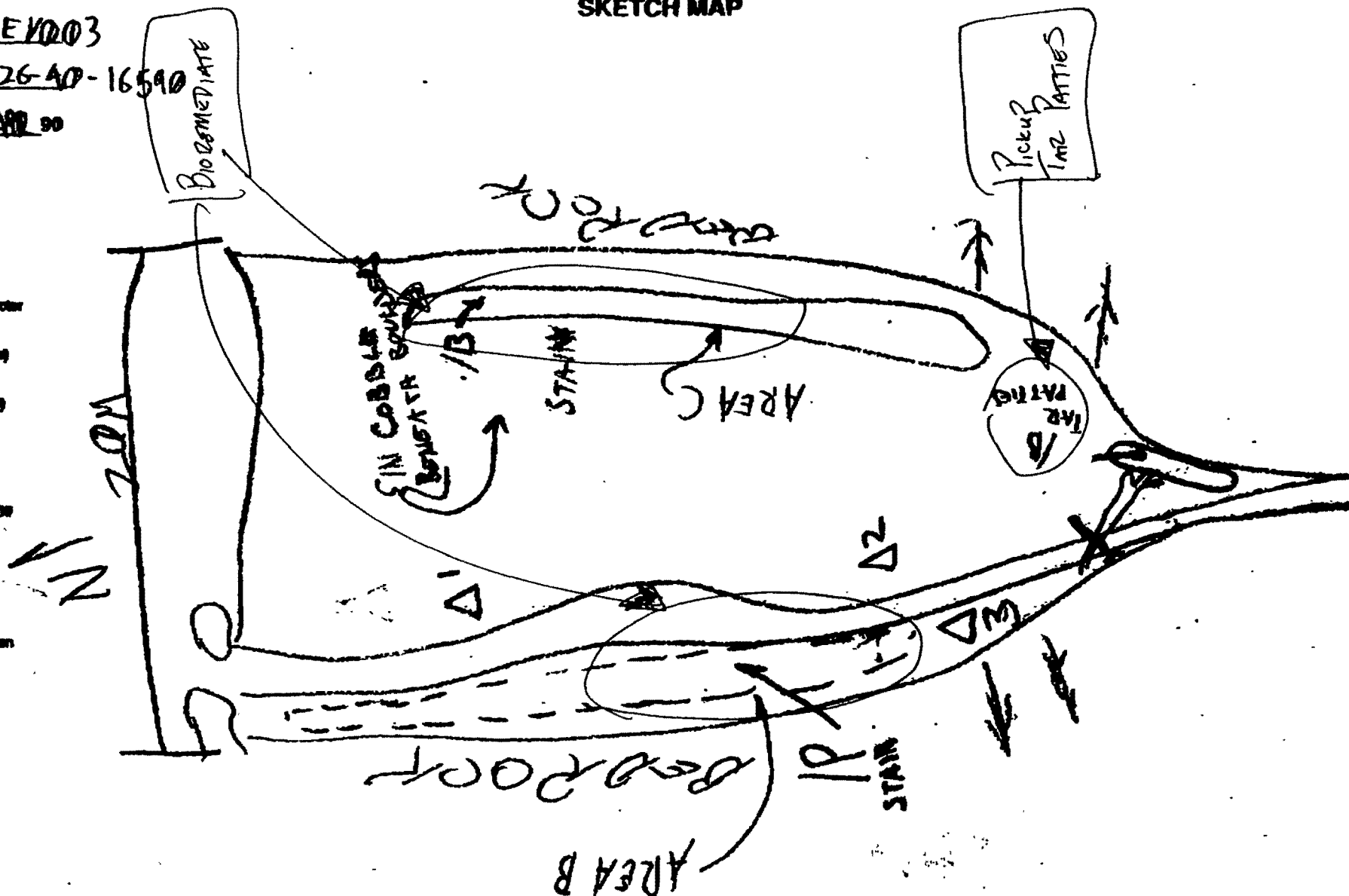
CTA

Substantive Effectiveness

Old Wives

1. **Introduction**

**Phone location, director,
and number**



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

FRANCESCO CECILIO

ACE 7237590

27/53

ADP&C MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: SS SS CS TS AVS SCMA HMM PTA2 REGION: PWS KP,CI K,APMETHOD: Aerial Ground Boat3 DATE: 4/22/9015 HIGH TIDE TIMES: 1205 -21 TEAM RECORDER: M. WISNER4 START TIME: 181516 HIGH TIDE HTS: 10.0' -22 OBSERVERS: T. CROWE5 STOP TIME: 184517 LOW TIDE TIMES: 1603 181423 AGENCY: ADFG6 SEGMENT #: EV-00318 LOW TIDE HTS: 1.0' 0.7'24 PHOTOS TAKEN: Y N7 STATION #: 226-40-1659019 TIDE HT AT SURVEY: 0.7'

Roll #: _____ Frames: _____

8 K-UNIT: _____

Ebb Streak Flood Streak25 VIDEO TAKEN: Y N TAPES: _____

9 STAT AREA: _____

20 USCG QUAD: SEWARD A3

Starts: _____ Ends: _____

10 LAT: _____

11 LONG: _____

26 SAMPLES TAKEN: Y N Number: _____

12 SOURCE: Map Loran

Oil: _____

13 LOCATION: EVANS POINT

Sediment: _____

14 DESCRIPTION: _____

Biological: _____

Water: _____

EXTENT OF OIL

	SHORELINE				STREAM			
	L	Y	H	S	L	Y	H	S
27 SURFACE COVERAGE	15	100		2	100	2		21

28 CATALOGED ANAD. FISH BREAST Y N37 CATALOG #: 226-40-16590

38 STREAM NAME: _____

	SURFACE THICKNESS				PENETRATION			
	1mm	1cm	2mm	<1mm	0	5cm	4cm	
28 SURFACE THICKNESS	1mm	1cm	2mm	<1mm	0	5cm	4cm	
29 PENETRATION	0	5cm	4cm					

39 OIL IN STREAM BED? Y N40 OIL ON STREAM BANKS? Y N30 OVERALL OIL IMPACT: N YL L N H41 OIL ON BEACH ADJACENT TO MOUTH (within 50 meters) Y N31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain42 OIL WITHIN 1 MILE OF STREAM? Y N32 OILED DEBRIS: Y N

Where: _____

33 SHORELINE TYPE: Headland Lowlying Rocks Beach Cove43 ANADROMOUS FISH PRESENT? Y N

Lagoon Marsh

FRY PRESUMED

34 WAVE EXPOSURE: High Moderate Low

44 ANADROMOUS FISH OBSERVATION

35 SUBSTRATE TYPE: Bedrock Boulder 33 Cobble 33

Species Aerial Ground

Gravel 33 Sand _____ Mud/silt _____

COMMENTS: THE SITE IS A SMALL POCKET COVE WITH A SMALL SEAWARD OPENING - BEDROCK OUTCROPS ON BOTH SIDES. THE OUTCROP TO THE WEST HAS SIGNIFICANT TAR COVERAGE ON VERTICAL SURFACES. SOME LIVING BIOTA WITHIN THREE ZONES. TAR PATTIES AND MATS ARE SCATTERED IN THE UPPER INTERTIDAL ZONES ADJACENT TO

APR-23-1990

19:03

FROM

EXXON CMD CORDOVA

TO

SCAT TEAM

P.27

226-40-16590

28/53

48 PHOTOLOG

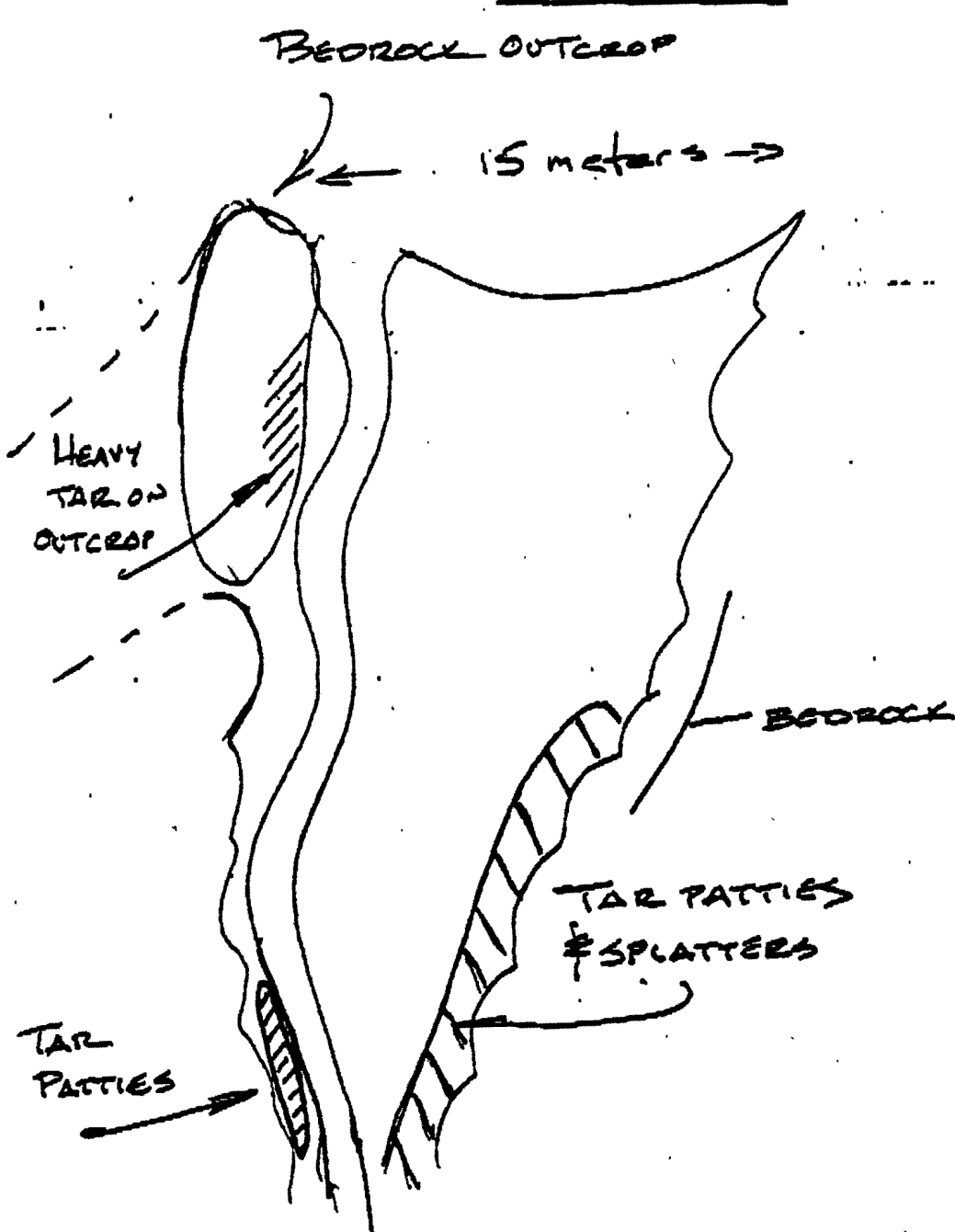
FIGURE(S)

DESCRIPTION

RECOMMENDATIONS: REMOVAL OF TAR PATTIES AND
SPATTERS. LEAVE TAR ON OILED OUTCROP
UNTREATED.

I agree with recommendations. M.H. Fawcett

48 OIL DISTRIBUTION DIAGRAM



ACE 7237592

33/55

Segment EU 003

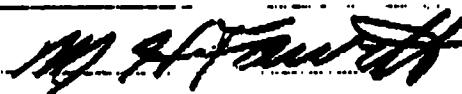
4/21/90

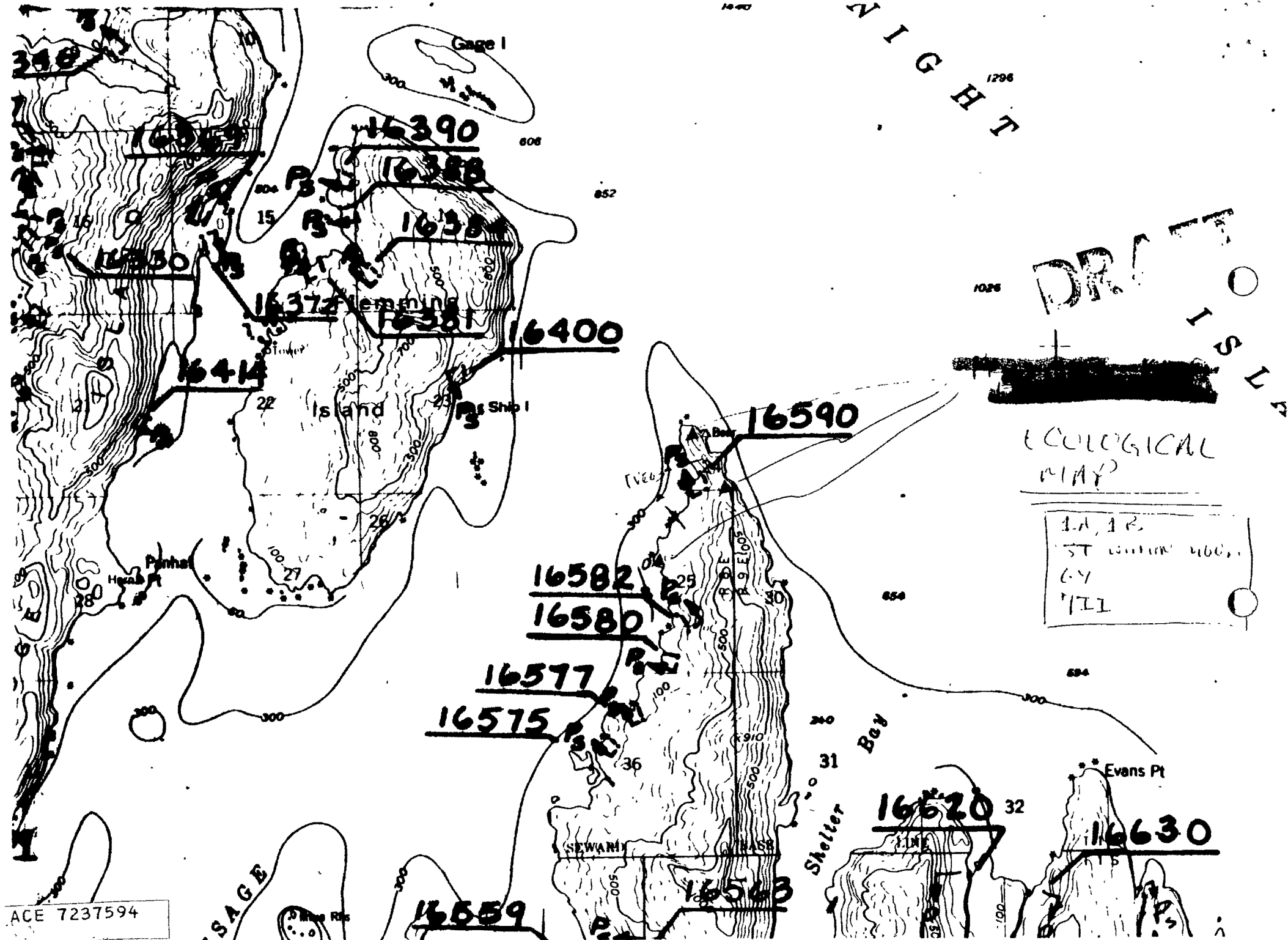
Stream 226-90-16590

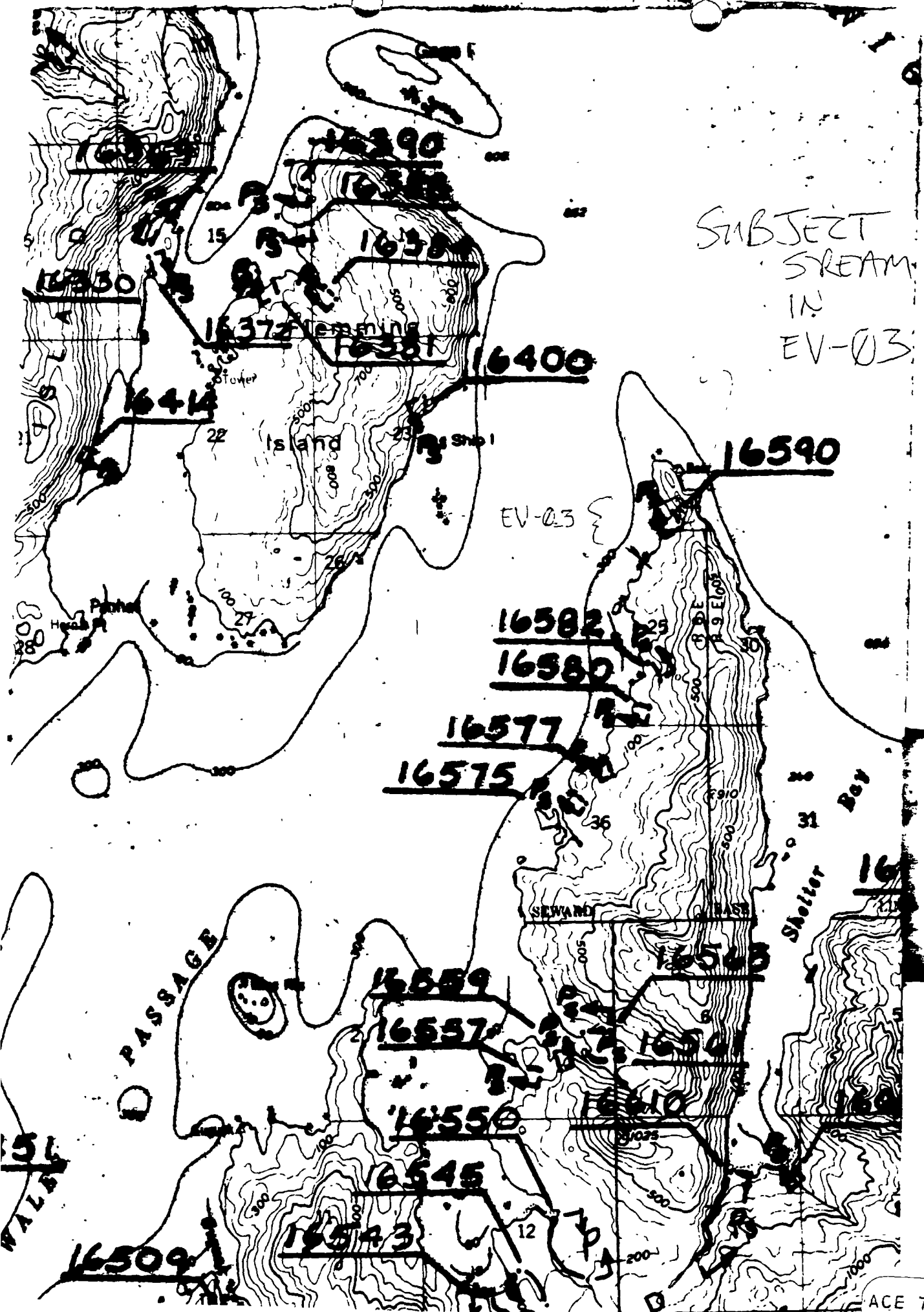
Michael Fawcett

Ecological Summary

This small stream enters the sea via a 15m wide gravel/pebble/beach in a narrow cove with vertical bedrock on either side. The beach sediments are unstable and there is no macro-biota present. A mature, diverse community including barnacles, mussels, several species of limpets, littorines, whelks, algae, etc., exists on the vertical walls despite a remaining fairly heavy coat of weathered oil. No constraint: beach or stream bank cleanup, but I recommend leaving the vertical walls alone.







**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: Mike Ebel (please print)

RE: SEGMENT NUMBER EV-03 SUBSEGMENT NUMBER A, Site 1-3

ADEC REP Mike Ebel USCG REP Chris Van Pelt

EXXON REP Tony Diaz BOAT NAME/SQUAD NUMBER MV/Arctic Salvor
Squad #4

Site #	Length (along shore m)	Area m ²	Inipol (gallons)	Customblen (lbs.)
I	$(10 \times 6) + \frac{1}{2}(13 \times 15)$	$= 157.5 \text{ m}^2$		33#
II	15 x 16 m	$= 240 \text{ m}^2$	19 gal.	9#
III	9 x 14 m	$= 126 \text{ m}^2$		26#

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

Describe the amount of oil remaining (type, size of area and location). *Widespread over the above listed dimensions, from 0-25 cm OP-OR sedo remain with 1/8 C+ - CV on the surface boulders and cobbles.*

Additional Comments (keep objective) *Because this subdivision has been placed on the hot list, the O&G report is being FAXed along with the DSA. Also, because there is a correction note for Rowann's report, the correction ~~is~~ accompanied by excerpts from my field notes are included.*

signature _____
Date and time of demobilization from segment 6/21/90 1815 hrs
Shoremon\Demob.bio 55/30/90

Michael J. Ebel

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

Anad Scot
226-40-16590

RE: SEGMENT NUMBER EV-03

SUBSEGMENT NUMBER 5-12-90

DEC REP Bob McCready

USCG REP Pat Malley

EXXON REP Mike Marting

BOAT NAME/SQUAD NUMBER Adela - 215

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

yes

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

no

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

Additional Comments (keep objective)

signature Robert McCready

Date and time of demobilization from segment 6/10/90 1115

Shoremon\55 5-12-90

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/ EV-03 STREAM NO: 226-40-16590 DATE 4/22/90

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)
5T All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)
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 uncoiled 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: J. David McManis DATE: 5/8/90

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: Recommended treatment includes 1) manual pickup of tarballs and 2) ~~bioremediation of area of surface stain.~~ Work should be conducted between 6/1 and 7/10 based on eagle nest and salmon constraints with approval of USFWS regarding eagle nest and ADF&G regarding bio-remediation of stream banks.

TAG COMMENTS: _____

TAG APPROVAL DATE: 5/7/90

ADEC Art Weir Art Weir

EXXON ANDY TOR Paul

NOAA Gary Petrac Andy Petrac

USCG G.A. BETER G.A. Beter

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

NOTIFY CWC 24 HRS PRIOR TO WORK.

DATE: 10/16/91

REGION: PWS

PAGE 4

STREAM#: 2264016590
PURPOSE: CLEANUP

SEGMENT#: EV003 A

LOCATION: EVANS ISLAND, EVANS POINT

STREAM NAME:

DATE	OBSERVER OTHER REPS	WORK ORDER DATE	DEMOBIL. DATE	SURFACE OIL SUBSURFACE OIL	TREATMENTS	AMOUNT REMOVED	REMAINING OIL
06/28/91	MONTESANO (ADEC) EXX BOYER NAUMAN, USCG MCMAHON		06/28/91	AP CT ST SOR	MANUAL REMOVAL	1 BAG	SURFACE: CT ST LSOR

COMMENTS:

HELO TEAM. ADF&G PERMIT ISSUED FOR WORK NEAR STREAM 2264016590 AND WORKING UNDER A STATE WORK ORDER. THERE SEEMED TO BE A LACK OF COMMUNICATION BETWEEN THE OG/VECO CREW AND THE ADEC REPRESENTATIVE ON MAYSAP. THERE WERE ONLY SMALL AMOUNTS OF OIL TO PICK SINCE THERE WAS REMOVAL DURING MAYSAP IN AREAS THAT WERE RECOMMENDED FOR TREATMENT. VIRTUALLY ALL OF THE WORK WAS DONE IN "G" WHERE 5 < .5*5 PATCHES OF AP/SOR AND MS/I WERE REMOVED. AREAS F AND G WERE SHOWN AS PU ON THE MAYSAP OG MAP. TAG WORK ORDER COMPLETED. NO WORK ORDER MODIFICATION REQUESTED. NOT RECOMMENDED FOR FUTURE REASSESSMENT. WORK FROM 1050 TO 1106. UPPER TO SUPRA TIDAL ZONE. MODERATE WAVE EXPOSURE. SURFACE SEDIMENTS: B 50%, C 30%, P 20%. SUBSURFACE SEDIMENTS: C 20%, P 30%, G 30%, S 20%.

?

STREAM#: 226UNCAT04
PURPOSE: REASSESSMENT/TREATMENT

SEGMENT#: EV012 A

LOCATION: EVANS ISLAND, EVANS POINT, SOUTHEAST OF

STREAM NAME:

DATE	OBSERVER OTHER REPS	WORK ORDER DATE	DEMOBIL. DATE	SURFACE OIL SUBSURFACE OIL	TREATMENTS	AMOUNT REMOVED	REMAINING OIL
06/27/91	AIMEE WESEMAN DNR CARLSON HALL, ADEC MATHEWS MUNSEN			AP SOR MOR	MANUAL REMOVAL MANUAL RAKING	7 GEO BAGS	OBVIOUS OIL REMAINING INCLUDES THE SMALL PATCH IN AREA B OF 'AP/SOR' AND SOME 'HSOR' SEDIMENTS IN AREA C. SITE WAS NOT DEMOBED. DEC CREW PALNS TO RETURN & COMPLETE.

COMMENTS:

OILY SEDIMENTS IN AREAS A, C WERE REMOVED. ONLY SMALL REMNANTS OF TARMAT REMAINED IN SEC C, IT HAVING BEEN WORKED ON MAYSAP. AREA A HAD NOT BEEN TOUCHED, SO THE MAJORITY OF THE OIL CAME FROM THERE. A SCATTERED, THIN LENS WAS DISCOVERED IN THE LUITZ TO THE WEST OF AREA A & LOOKED TO BE A CONTINUATION OF IT. THIS WAS REMOVED & TILLED.

ENTERED 7/9/91
2

ADEC DAILY SHORELINE ASSESSMENT (rvsd 4-15-91)

LOCATION EVANS Island SEGMENT EV 3 SUBSEG A
DATE 6-28-91 TIME: Begin 1050 End 1106 SITE AF, + G
WEATHER: Cloudy Rain Fog Snow Sunny Other _____
MONITOR(S) Peter Montesano
ENVIRONMENTAL CONSTRAINTS Anad Stream # 226-40 -16590
Subsist. Area.

DESCRIPTION OF TREATMENT SITE:

SHORE COMPOSITION

Surface sediments: R _____ % B 50 % C 30 % P 20 % G _____ % S _____ %

Subsurface sdmnts: R _____ % B _____ % C 20 % P 30 % G 30 % S 20 %

Wave Exposure: Low Moderate High

OIL CHARACTERISTICS Before Treatment

Surface: Mousse Tarball/Patty Pavement Cover Coat Stain SOR

Subsurface: OP HOR MOR LOR OF Depth: _____ Thickness: _____

Across Tidal Zone: Low Mid Upper Supra

TREATMENT PERFORMED:

MANUAL REMOVAL Type: MS TB APC SOR OP OR OF

MANUAL RAKING MECHANICAL TILLING - WITH/WITHOUT TIDAL FLUSH

BERM RELOCATION BIOREMEDIATION granular _____ lbs Inipol _____ gal

OTHER _____

EQUIPMENT USED Shovels + Rakes

WORKERS ON SITE: # ORTS 1 OTHER _____

OTHER REPRESENTATIVES: EXXON Boyer + Nouman

USCG McMahon

OTHER _____

METHOD TO CONTAIN/COLLECT OIL _____

NUMBER OF BAGS COLLECTED: Oiled Sediments 1 Oiled Debris _____
Oiled Vegetation _____ Unooled Debris _____ Oiled Logs Present _____

SEGMENT EV3A MONITOR Montesano DATE 6-28-91

PHOTOGRAPHS: Roll # Frames Reason

VIDEO: TAPE # Reason

COMMENTS: (Observations, problems & efforts made to correct, etc.)

Helo Team, ADFC Permit issued for work near Stream
226-40-16590, and working under a State
work order.

There seemed to be a lack of communication
between the OB/Vico crew and the ADFC
representative on MAYSAP. There was only ~~one~~ small
amounts of oil to pick since there was removal
during MAYSAP in areas that were recommended
for treatment. Virtually all of the work was
done in "G" where 5-6.5x.5 patches of
AP/SOR + MS/I were removed. Areas F+G were
shown as "PU" on the MAYSAP-OB map.

OIL CHARACTERISTICS After Treatment

Surface: Mousse Tarball/Patty Pavement Cover Coat Stain LSOR

Subsurface: OP HOR MOR LOR OF Depth: Thickness:

TAG WORK ORDER COMPLETED? NO YES COMMENTS

WORK ORDER MODIFICATION REQUESTED? NO YES DATE

RECOMMEND FOR FUTURE REASSESSMENT? NO YES (include map
identifying treatment performed and oil remaining)

SIGNATURE Pet Valt

EXXON Valdez Oilspill Cleanup
Anadromous Fish Stream Authorization

Date June 28, 1991

EXXON Authorized Representative Scott Nauman

Shoreline Segment EV003A

Anadromous Fish Stream Number(s) 226-40-16590

Approved Cleanup Techniques Manual removal and filling
of oiled sediments.

Approved Cleanup Period May 15 to July 10, 1991

Alaska Department of Fish and Game

Mark Fink
Authorized Officer

Scott Nauman
Permittee's Signature

EXXON Valdez Oilspill Cleanup

Anadromous Fish Stream Authorization

Date June 28, 1991

EXXON Authorized Representative Scott Nauman

Shoreline Segment EV0034

Anadromous Fish Stream Number(s) 226-40-16590

Approved Cleanup Techniques Manual removal and filling
of oiled sediments.

Approved Cleanup Period May 15 to July 10, 1991

Alaska Department of Fish and Game

Mark Friel
Authorized Officer

Scott Nauman
Permittee's Signature

EAXON Valdez Oilspill Cleanup

Anadromous Fish Stream Authorization

Date

July 15 1991

EAXON Authorized Representative

Keith D. ...

Shoreline Segment

RV-039

Anadromous Fish Stream Number(s)

116-70-10-10

Approved Cleanup Techniques

Hand ...

Approved Cleanup Period

July 15 to July 16 1991

Alaska Department of Fish and Game

Authorized Officer

Permittee's Signature



1991 STATE WORK ORDER
EXXON VALDEZ OIL SPILL PROJECT
STATE OF ALASKA

PRINCE WILLIAM SOUND

SEGMENT: EV0003 SUBDIVISION: A SITE:
anadromous stream, commercial fishing, recreation site,
subsistence use site

226-40-16590

RECOMMENDED TREATMENT:

In area of sites A, F, and G:
- Manually pickup asphalt pavement.

ENVIRONMENTAL SENSITIVITIES:

Open only after eagle nest is cleared.

WORK WINDOW: -

CLEANUP PLAN AND COST ESTIMATE DUE:

DATE SUBMITTED: 05/13/91

STATE ON SCENE COORDINATOR:



226-40-16590



ADEC

NAME

John Hoyer

SIGNATURE

[Signature]

☐ NTR

☒ Treatment Recommended

Portion of segment observed consisted of three pocket beaches, 2 pocket beaches to the North need additional AP pickup in areas A, F, + G identified on sketch map. Recommend sites for cleanup LAP as AP + TB's are easily recoverable + both sites have berms which may still have OSR debris, team does not have time for debris search.

EXXON

NAME

Martinez N.J.

SIGNATURE

[Signature]

☒ NTR

Beach coming back very well. There is a little pick up work that would be good for local response group. Outside of that. I think no other work is needed.

LANDMANAGER

NAME

Steve WARD OF CUC

SIGNATURE

[Signature]

☐ NTR

Very little sub-surface remains. Amount of asphalt and debris makes this area a perfect local response project. See ADEC notes for location.

USCG/NOAA

NAME

HOSEA BAKER

SIGNATURE

[Signature]

☒ NTR

Observed no mobile oil nor sheening. Any additional cleaning would be detrimental to the local ecology.

Small ~ 8cm tar ball and oiled sediment within a rock layer was the only oil observed. Considering the area of this segment, very little oil noted.

RECEIVED
MAY 01 1991

ORIGINAL COPY

1991 MAYSAP EVALUATION

SEGMENT: EV 003 SUB: A REGION: PWS SURVEY

ENVIRONMENTAL SENSITIVITIES:

Work Window(s) RESTRICTED 3/1 - 9/15

Ecological/Constraints (see page two for details) Bayle nest,
Fish harvest area, Anadromous stream, Subsistence - Deer harvest-
ing

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO Signature: _____ Date: _____

<u>RECOMMENDATIONS:</u>	<u>INITIAL</u>	<u>TAG</u>	<u>FOSC</u>
TREATMENT REQUIRED (Y or N)	<u>n</u>	_____	_____
Manual Pickup (Check as Req.)	_____	_____	_____
Spot Washing	_____	_____	_____
Bio-Customblen Only	_____	_____	_____
Bio-Inipol/Customblen	_____	_____	_____
Other _____	_____	_____	_____
Other _____	_____	_____	_____

COMMENTS:

INITIAL: P.U. - anad str.

TAG: ~~RE~~ NTR - State to rearsen

FOSC: _____

TAG APPROVAL DATE: _____ FOSC APPROVAL DATE: _____

ADEC _____ FOSC _____

EXXON _____

USCG _____

NOAA _____

Contains
 anad. stream
 EV003 A
 22640 16590

1991 MAYSAP EVALUATION

SEGMENT: EV 003 **SUB:** A **REGION:** PWS **SURVEY DATE:** 4/26/91

ENVIRONMENTAL SENSITIVITIES:

Work Window(s) RESTRICTED 3/1 - 9/15

Ecological/Constraints (see page two for details) **Eagle nest, Fish harvest area, Anadromous stream, Subsistence - Deer harvesting**

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO Signature: _____ Date: _____

RECOMMENDATIONS:

INITIAL

TAG

FOSC

TREATMENT REQUIRED (Y or N)

n

Manual Pickup (Check as Req.)

Spot Washing

Bio-Customblen Only

Bio-Inipol/Customblen

Other

Other

COMMENTS:

INITIAL: P.U. - anad str.

TAG: ~~RE~~ NTR - State to readdress

FOSC:

TAG APPROVAL DATE:

FOSC APPROVAL DATE:

ADEC

FOSC

EXXON

USCG

NOAA

Arad Stream EV003

226-40-16590

reinsty, ✓ our records
yes in our MSL 1/2 5/6/91

**ECOLOGICAL CONSTRAINTS
1991 FIELD ACTIVITIES**

Eagle Nest: Access restricted from 3/1 to 9/1. USF&WS authorization required. Maintain 1000' vertical and 1/4 mile horizontal buffer.

Fish Harvest Area: Unlimited treatment unless otherwise directed by ADF&G. Sheen containment/recovery procedures required for mechanical treatment.

Anadromous Stream: Unlimited treatment up to stream bank between May 15 and July 10. ADF&G approval required for work after July 10. Fish Habitat Permit required for instream work. ADF&G approval required for bioremediation within 100 meters of anadromous stream after July 10.

Subsistence - Deer Harvesting: Unlimited treatment prior to 8/15.

TEAM NO. OG CHANEYBIO CRANKSEGMENT EV-3ADEC HAYESLANDMANAGER WARD for CVCSUBDIVISION AEXXON MARTINEZUSCG/NOAA DREHER/HODGESDATE Apr. 1, 26/91TIME 16:15 to 17:50TIDE LEVEL 5 ft. to 1 ft.ENERGY LEVEL: ☐ H ☐ M ☒ LSURVEYED FROM: ☒ FOOT ☒ BOAT ☐ HELOWEATHER: ☐ SUN ☐ CLOUDS ☐ FOG ☒ RAIN ☐ SNOWTOTAL LENGTH SHORELINE SURVEYED: 240 mNEAR SHORE SHEEN: ☐ BR ☐ RB ☐ SL ☒ NONEEST. OIL CATEGORY LENGTH: W 0 m M 0 m N 30 m VL 100 m NO 110 m US 383 m?

L O C	SURFACE OIL CHARACTER										SURFACE SEDIMENT TYPE	SHORE SLOPE VHML	AREA		ZONE				NOTES
	AP	MS	TB	SB	CV	CT	ST	FL	DB	NO			WIDTH m	LENGTH m	S	UI	MI	LI	
A	T				T	S					R	M	1	5		✓			Asphalt patche PU
B					T						R	M	1	5		✓			in bedrock cracks
C						B					B	L	0.3	15		✓			Bedrock face
D					T						B	L	4	10			✓		in cracks on boulders
E					T						B	L	3	3		✓			on boulder
F					T						R	M	1	1		✓			in bedrock crevise
G	S										B	L	1	15	✓				distinct patches
H					B						R	M	0.5	10		✓			in bedding planes
I					T	P					R	H	0.3	10		✓			coat on rock face
J					B						R	H	0.5	5		✓			same
K					T	P					B	M	5	1		✓			large boulders
L					T	T					B, R	M	1	10		✓			
M					T						R	L	0.1	1.5		✓			

DISTRIBUTION: C = 91-100%; B = 51-90%; P = 11-50%; S = 1-10%; T = <1%

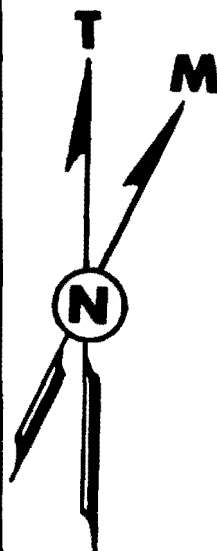
SLOPE: V = VERTICAL; H = HIGH ANGLE; M = MEDIUM ANGLE; L = LOW ANGLE PHOTO ROLL # MAYSAP- 5 - 1FRAMES 1-12

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER							OILED ZONE	CLEAN BELOW	H2O LEVEL	SHEEN COLOR	PIT ZONE				SURFACE- SUBSURFACE SEDIMENTS	NOTES
		OP	HOR	MOR	LOR	OF	TR	NO					S	UI	MI	LI		
1	20							✓	-					✓			P-PCG	
2	30							✓	-					✓			P-PCG	
3	15							✓	-						✓		S-SPL	
4	30							✓	-						✓		P-PGS	
5	20							✓	-		10	-		✓			B-BPG	
6	10			✓				✓	0-10		0	-		✓			B-BCG	possibly 5m ²
7	25							✓	-		5	-		✓			GB-GB	
8	35							✓	-					✓			G-G	
9	25							✓	0-20		10	S			✓		C-CG	

SHEEN: B = BROWN; R = RAINBOW; S = SILVER; N = NONE

OG COMMENTS:

MAYBAP 1991
 OG SKETCH MAP
 GREG CHANEY
 TEAM 5
 SEGMENT: EV-3-A
 DATE: APRIL 26 91
 AIR P.#: PIM 5 005 236

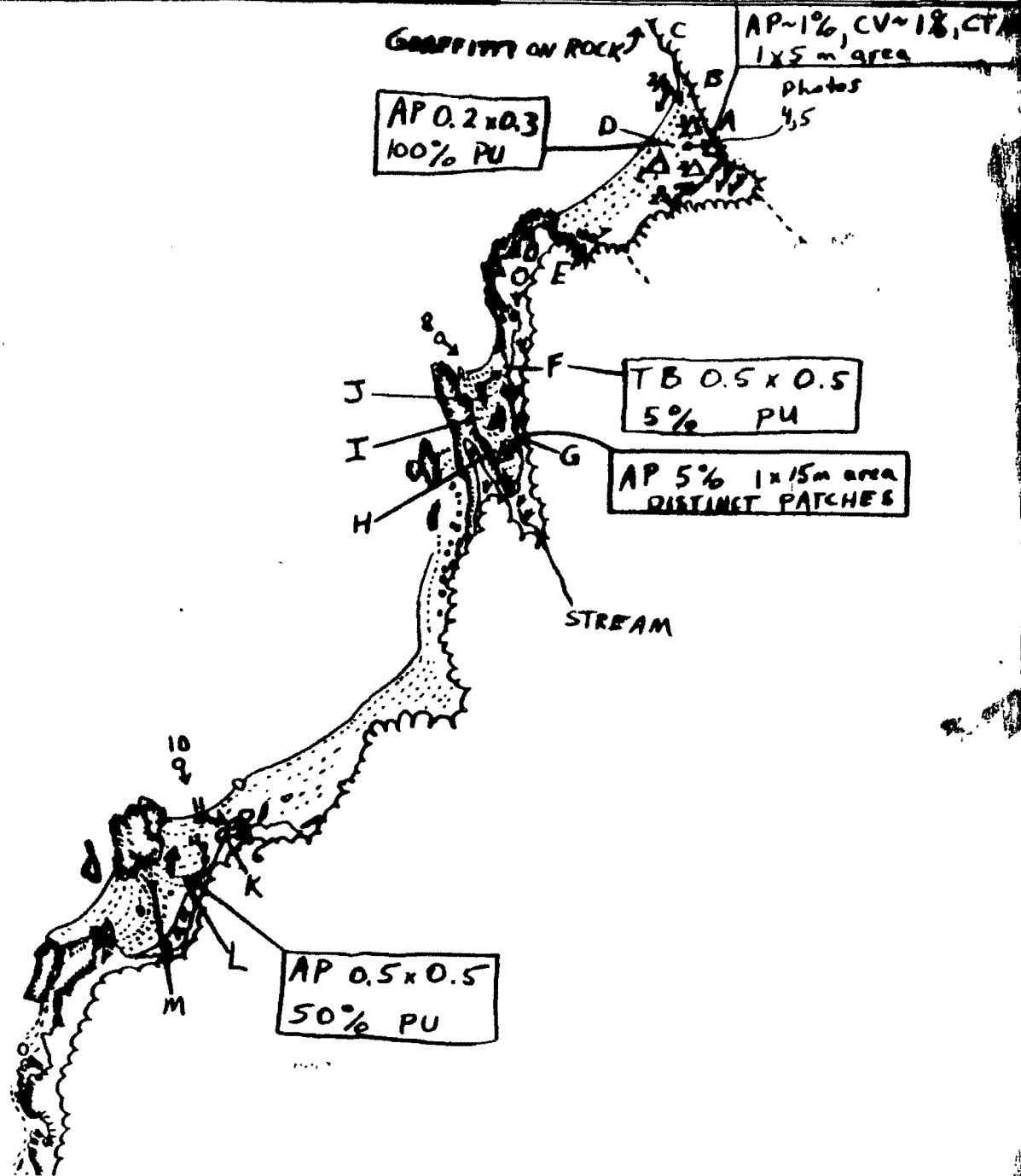


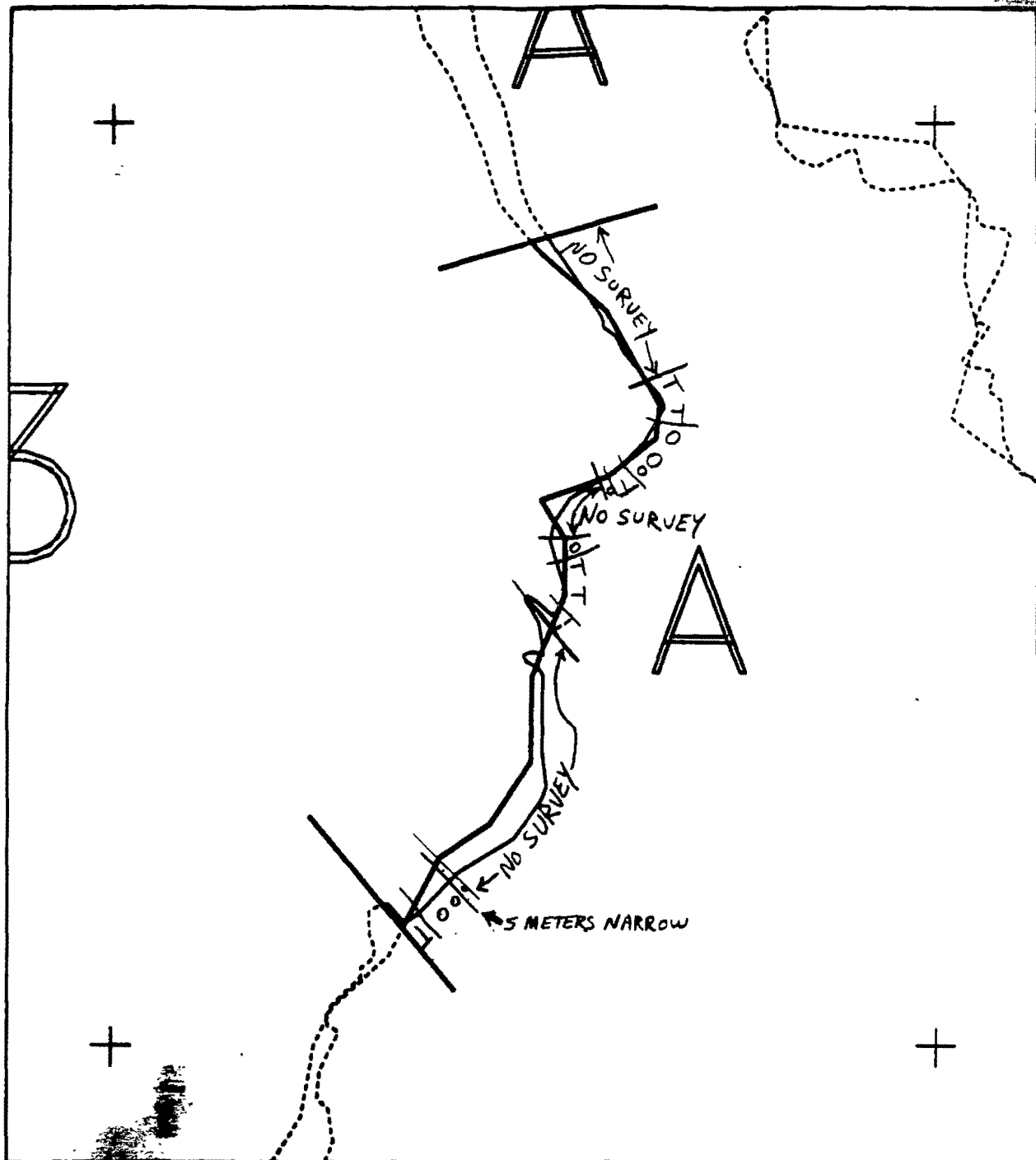
LEGEND

BEDROCK	
BOULDERS	
FINE BED.	
DRIFT LOG	
GRASS	
BRUSH	
FOREST	
OILED PIT	
NO OIL PIT	
PHOTO	

SCALE

APPROX. 100
 METERS





XXXX No Oil
 //// Medium
 ---- Narrow
 TTTT Very Light
 0000 No Oil

EV003 A

ADEC Subsegment Length: 823m

METERS

0 100 200

AK State Plane Zone 4
 960003a

Subdivision Field Map

Map Key: PWSEV003A

Name: Greg Chaney

Date: April 27 91

Date Entered:

TEAM #5

DATE 26 Apr '91

SEGMENT # EY-3

TIDAL HEIGHT (Range) ~+6 → +2

SUBDIVISION A

BIOLOGIST C. Rank

SEA STATE 2

WIND SPEED/DIRECTION 0 → 5 mph direction unknown

PHOTOGRAPHS: ROLL #

FRAME #

COMMENTS/OBSERVATIONS (to be completed in oiled subdivisions only):

(A) Area located high in U1Z; no intertidal organisms in immediate vicinity. Mosses are present on rock face and boulder shoulder ranging in color from green to dark red. Some oil picked up by Vera worker with no ecological disturbance.

(B) Area located low in U1Z along N cliff face and boulder shoulder. There is a sparse to moderate adult barnacle population with a new set present. Patches of *Fucus* with maturing conceptacles, a continuous 1/2 m wide band of mussels along cliff face with several age classes, and a sparse *Littorina* population with a new set. Biota appears healthy.

(C) Area located low in U1Z among boulders. There is a dense *Fucus* population. Maturing conceptacles are present. Area is also being heavily recruited by barnacles as well as being recruited by mussels. A sparse to rare limpet population is present.

(D) Area located in M1Z. Sparse barnacles (adults and seen new set present) Mussel patch with several age classes. Patch (<5cm) of *Scytosiphon* (algae). Asphalt was picked by Vera worker with no ecological disturbance.

(E) Area is located on S rock outcrop and boulder shoulder. There is a moderate to dense *Fucus* bed with maturing conceptacles. Patches of mussels are located at the boulder bases and in the cobble next to the boulders, various age classes. There is a moderate barnacle population with rare to sparse recruitment. There are patches of *Rhodomele laria* (alga) and rare to sparse limpets and *Littorina*. Ribbon worms are present under cobbles.

WILDLIFE OBSERVATIONS

TO BE COMPLETED IN ALL SUBDIVISIONS

BIRDS	# OF SPECIES	TOTAL BIRDS	FISH OBSERVED SPECIES PRESENT
Eagles	1	1	0
Seabirds	2	3	
Waterfowl	2	3	
Gulls/Kittiwakes	1	1	
Shorebirds			
Corvids			
Other Birds			

LAND MAMMALS

MARINE MAMMALS	# OBSERVED	SPECIES	# OBSERVED
Sea Otters	1	Deer	Scat only
Pinnipeds (specify)			
Whales (specify)			

Shoreline subdivision map showing important biological features attached.

Team #5

Date: 26 Apr '91

pg 2 of 4

Segment: EV-3

Tidal Height: ~+6 → +2

Subdivision: A

Biologist: Crank

Sea State: < 1'

Wind Speed/Direction: 0 → 5 mph/unknown

Comments (continued)

Areas A → E are located on a single pocket beach. Sparse biota coverage in the MITZ consisting mainly of barnacles, mussels, Fucus and filamentous greens and Scytosiphon^(algae) on angular cobble and boulders.

Barnacles were not tightly sealing their inner plates when stimulated. Other biota appeared to be healthy.

(F) Area is located in the MITZ on the protected side of the N cliff. Dominant biota present is barnacles; Littorina are rare. Biota appears healthy.

(G) Area is located in the SUPRA. There are rare masses and lichens. No intertidal biota present.

(H) Area is located low in the MITZ on the protected S cliff face. There is a moderate to dense Fucus band (1/2 → 1 m wide) directly below the oil. There is moderate Fucus sporlings and sparse to rare mature plants w/ ^{maturing} ~~concentrations~~. Barnacles are rare to sparse. ~~and~~ rare mussels are found at the boulder bases and in cracks and ~~and~~ Littorina and limpets are sparse with pockets of moderate concentration.

(I) Site is located low in the MITZ on the exposed side of the S cliff face. There is a moderate to dense barnacle population; sparse limpets and rare (with sparse pockets) mussels and Fucus.

Team: #5

Date: 26 Apr '91

pg 3 of 4

Segment: EV-3

Tidal Height: $\sim +6 \rightarrow +2$

Subdivision: A

Biologist: Crank

Sea State: $< 1'$

Wind Speed/Direction: $0 \rightarrow 5$ mph / unknown

Comments (continued)

(J) Area is located low in the U1TZ. There is a sparse $1/2$ m wide mussel band and a sparse 1 m wide barnacle band in the area. Only a few Fucus plants are present and they have maturing conceptacles. Littorina and limpets were also present.

Areas F $\rightarrow$ J are located on a single pocket beach. There is a continuous 1 m mussel band on the exposed side of N cliff face with various age classes. Majority of barnacle did tightly seal their inner plates when stimulated. Anad Stream 226-40-16590 is located on this beach. Deer scat present adjacent to stream in the low SUPRA. Intertidal biota appears healthy.

(K) Area is located in U1TZ boulders. There is a tide pool 1 m west of site with 5 anemones, rare coralline algae; mussels. Within the site barnacles are rare. Mussels are also rare and the majority are juveniles. Filamentous green algae present in small patches (< 10 cm). Below the site MITZ has moderate coverage of Fucus with maturing conceptacles present. Moderate barnacles with spat and moderate Littorina are found underneath Fucus plants. Mussels are present in the cobble near the boulder bases.

(L) Area is located at the bottom edge of the SUPRA and upper edge of the U1TZ. Intertidal biota is not present.

Team #5

Date: 26 Apr '91

pg 4 of 4

Segment: EV-3

Tidal Height: $\pm 6 \rightarrow +2$

Subdivision: A

Biologist: Crank

Sea State: <1'

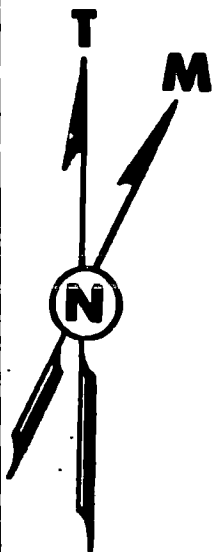
Wind Speed/Direction: $0 \rightarrow 5$ mph / unknown

Comments (cont.)

(M) Area is a rock outcrop low in the U1T2. There are sparse barnacles and a 1×2 m patch of Fucus at the base of the rock. Sparse Littorina and limpets are present and rare mussels are found in the crevices.

Areas K $\rightarrow$ M are on a single pocket beach. The rock outcrops at $\approx +2 \rightarrow +4$ tidal range have a dense biota coverage. Adult, juvenile barnacles are present as well as a new set. Both Fucus sporlings and mature plants with active conceptacles are present. Mussels are present in patches found mainly along cracks and crevices. There is a sparse to moderate Littorina and limpet population. Along the angular cobble beach there are sparse adult barnacles with moderate recruits. Littorina and limpets are also moderate. Littorina egg cases are found on the undersides of cobble. Mussels are rare. Small (<3 in) Oligochaete worms are present under cobble. The beach is healthy. Barnacle did tightly seal their inner pores. Biota on this beach does not appear to be adversely impacted by present oil conditions.

MAYBAP 1991
 OG SKETCH MAP Bio Sketch Map
 GREG CHANEY CRANK
 TEAM 5
 SEGMENT: EV-3-A
 DATE: April 26 91
 AIR P.N.: FM-C-236

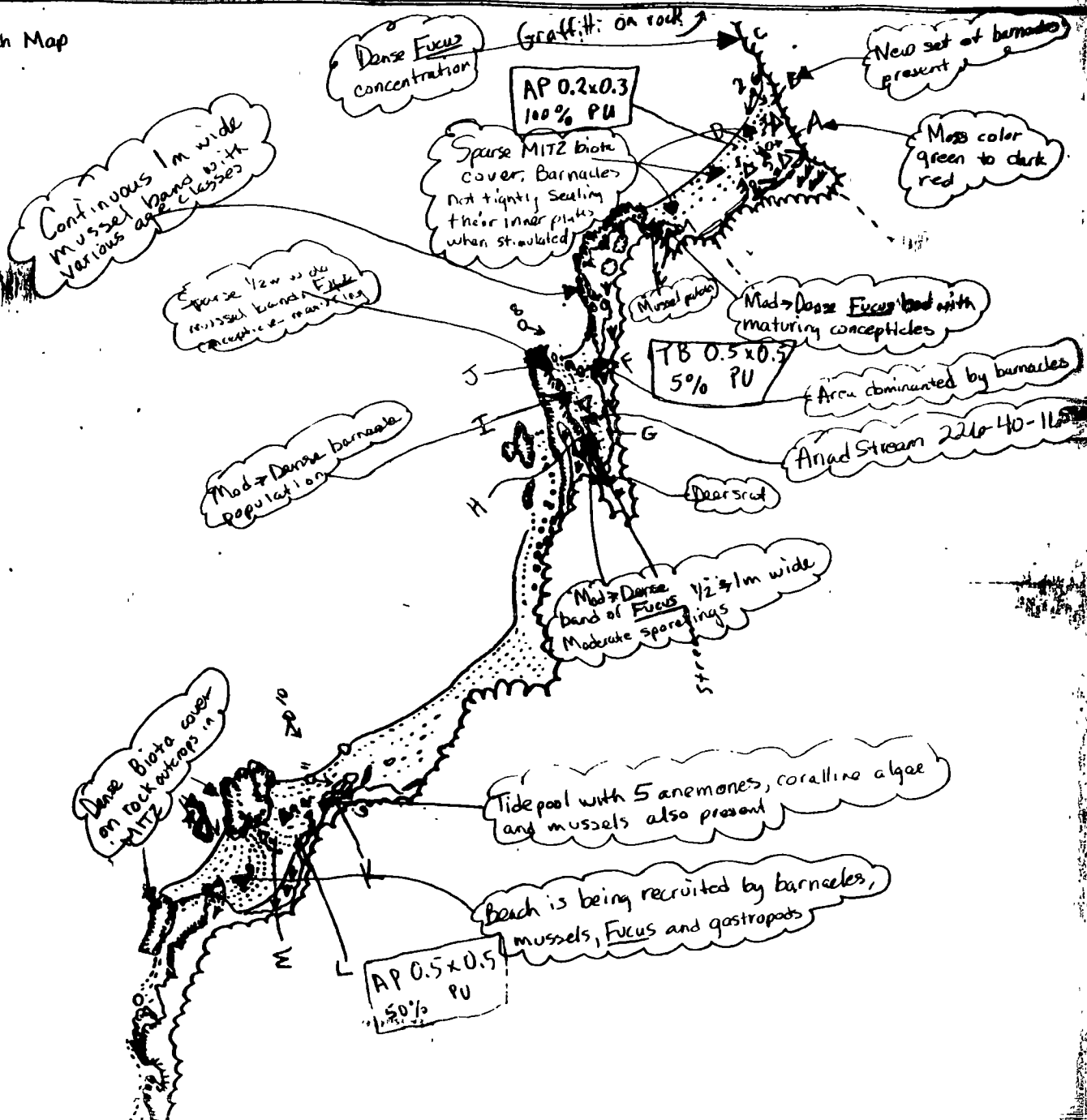


LEGEND

BEDROCK	
BOULDERS	
FINE SED.	
DRIFT LOG	
GRASS	
BRUSH	
FOREST	
OILED PIT	
NO OIL PIT	
PHOTO	

SCALE

Approx. 100
 METERS



1991 MAYSAP EVALUATION

SEGMENT: EV 003 SUB: A REGION: PWS SURVEY DATE: 4/26/91ENVIRONMENTAL SENSITIVITIES:Work Window(s) RESTRICTED 3/1 - 9/15Ecological/Constraints (see page two for details) Eagle nest,
Fish harvest area, Anadromous stream, Subsistence - Deer harvest-
ingARCHAEOLOGICAL CONSTRAINTS:If treatment is planned, a cultural resource evaluation is
required prior to shoreline treatment.SHPO Signature: Charles E. Holmes Date: 5/10/91RECOMMENDATIONS:

INITIAL

TAG

FOSC

TREATMENT REQUIRED (Y or N)

nN

Manual Pickup (Check as Req.)

Spot Washing

Bio-Customblen Only

Bio-Inipol/Customblen

Other

Other

COMMENTS:INITIAL: NAC

04/26/91

05/10/91 TAG: N-1C05/15/91 FOSC: NTCTAG APPROVAL DATE: MAY 10 1991FOSC APPROVAL DATE: 5/15/91

ADEC

EXXON

USCG

NOAA

FOSC

E. E. PAGE, CDR, USCG
CHIEF OF STAFF, FOSCThe state will evaluate
for the need for treatment
at this subdivision John Bauer