

MA-009A

ASC 15044

SOUTH OF MAIN BAY

ACE 1369651



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. (____)
____ '90 Other Documents _____

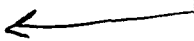
CATALOG NUMBER: 2252015044 SEGMENT#: MA009 A LOCATION: MAINLAND, MAIN BAY, SOUTH OF							
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
04/12/90	PRE-ANADS CAT	1	SURFACE			NO OIL	
MAD vs. OG: COMMENTS: OILED SAUSAGE BOOM AND DIAPERS IN STREAM. PICK UP AND REMOVE. NO OIL ON STREAM BANKS OR WITHIN ONE MILE OF STREAM.							

CATALOG NUMBER: 2252015044 SEGMENT#: MA009 A LOCATION: MAINLAND, MAIN BAY, SOUTH OF							
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
04/26/90	ANADSCAT	1	SURFACE			NO OIL	
MAD vs. OG: COMMENTS: NO OIL AT THIS BEACH. NO TREATMENT.							

CATALOG NUMBER: 2252015044 SEGMENT#: MA009 A LOCATION: MAINLAND, MAIN BAY, SOUTH OF							
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
04/26/90	OG'S ANADSCAT	0					NO OIL FOUND.
MAD vs. OG: AGREE COMMENTS:							

CATALOG NUMBER: 2252015044							SEGMENT#: MA009 A	LOCATION: MAINLAND, MAIN BAY, SOUTH OF	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			NO OIL			
MAD vs. OG: COMMENTS: OILED SAUSAGE BOOM AND DIAPERS IN STREAM. PICK UP AND REMOVE. NO OIL ON STREAM BANKS OR WITHIN ONE MILE OF STREAM.									

CATALOG NUMBER: 2252015044							SEGMENT#: MA009 A	LOCATION: MAINLAND, MAIN BAY, SOUTH OF	SEQ:
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS		
04/26/90	ANADSCAT	1	SURFACE			NO OIL			
MAD vs. OG: COMMENTS: NO OIL AT THIS BEACH. NO TREATMENT.									

CATALOG NUMBER: 2252015044							SEGMENT#: MA009 A	LOCATION: MAINLAND, MAIN BAY, SOUTH OF	SEQ:
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS		
04/26/90	OG'S ANADSCAT	0					NO OIL FOUND.		
MAD vs. OG: AGREE COMMENTS:									

Pre-ANAD-NT-90 ^{ASW}

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: 4-12-90 15 HIGH TIDE TIMES: 1 21 TEAM RECORDER: 12. Gustin

4 START TIME: 1042 16 HIGH TIDE HTS: 1 22 OBSERVERS: 1 pilot

5 STOP TIME: 1050 17 LOW TIDE TIMES: 1 23 AGENCY: ADF&G HAS

6 SEGMENT #: MA 009 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 011 _____

13 LOCATION: BAY ON MAINLAND NORTH FALLS BAY Sediment _____

14 DESCRIPTION: _____ Biological _____

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 _____
Gravel ✓ Sand _____ Mud/silt _____

36 CATALOGED ANAD. FISH SREAM? Y N ^{6-6-90 ASW}

37 CATALOG #: 15044

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: in stream

43 ANADROMOUS FISH PRESENT? Y N

44 ANADROMOUS FISH OBSERVATION

Species	Aerial	Ground

COMMENTS: oiled Sausage boom + diapers
in stream.

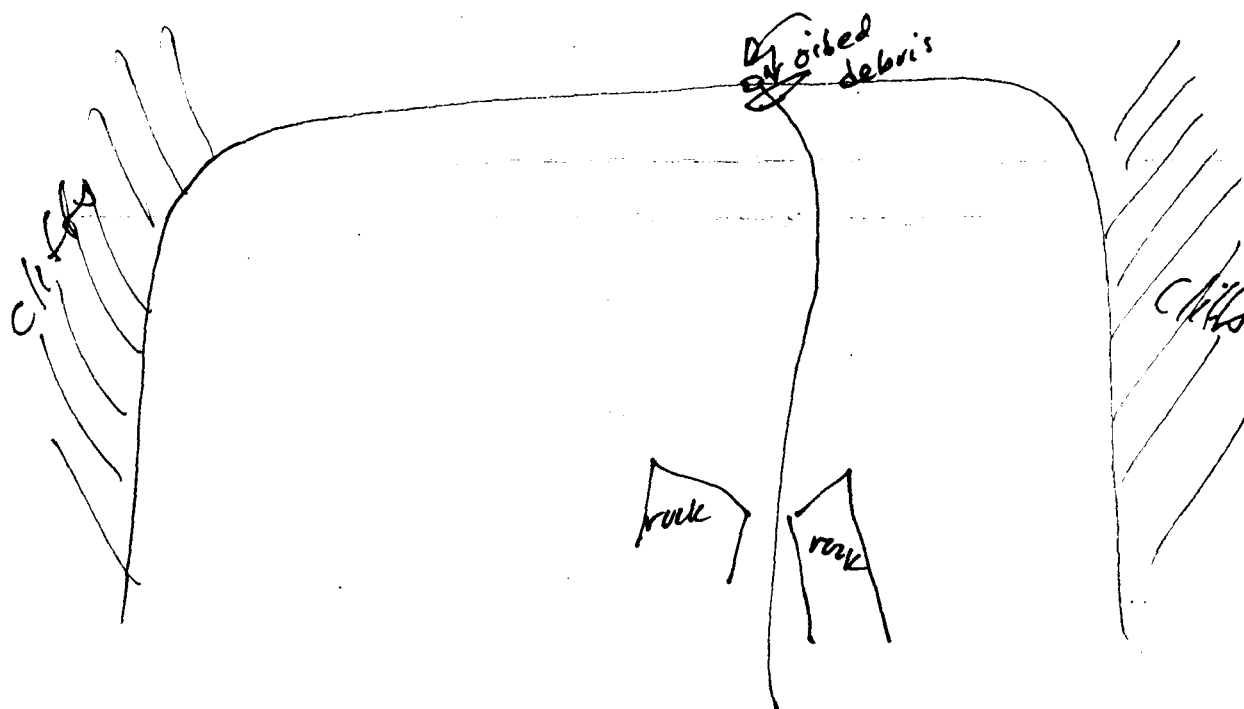
pick up + remove.

ACE 6331725 +15

45 PHOTOLOG

FRAME(S)	DESCRIPTION

46 OIL DISTRIBUTION DIAGRAM



4-12-90

MA009 ASW
226-20-15044

= Sample taken
Photo frame # and
shot direction.

ACE 6331726 -15



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: 4-12-90

15 HIGH TIDE TIMES: 1

21 TEAM RECORDER: 12. Gustin

4 START TIME: 1042

16 HIGH TIDE HTS: 1

22 OBSERVERS: 1 pilot

5 STOP TIME: 1050

17 LOW TIDE TIMES: 1

23 AGENCY: ADFG HAS

6 SEGMENT #: MA 009

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

Oil

13 LOCATION: BAY ON MAINLAND NORTH FALLS BAY

Sediment

14 DESCRIPTION:

Biological

EXTENT OF OIL

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

36 CATALOGED ANAD. FISH STREAM? (Y) N

37 CATALOG #: 225-20 15044 ^{ADW}

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)

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

31 ~~ON TYPE~~: Pooled Mousse Tar Asphalt Sticky Stain

Where: in stream

32 OILED DEBRIS? (Y) N

43 ANADROMOUS FISH PRESENT? Y N

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

44 ANADROMOUS FISH OBSERVATION

34 WAVE EXPOSURE: High Moderate Low

Species	Aerial	Ground

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

COMMENTS: oiled sausage boom + diapers
in stream.

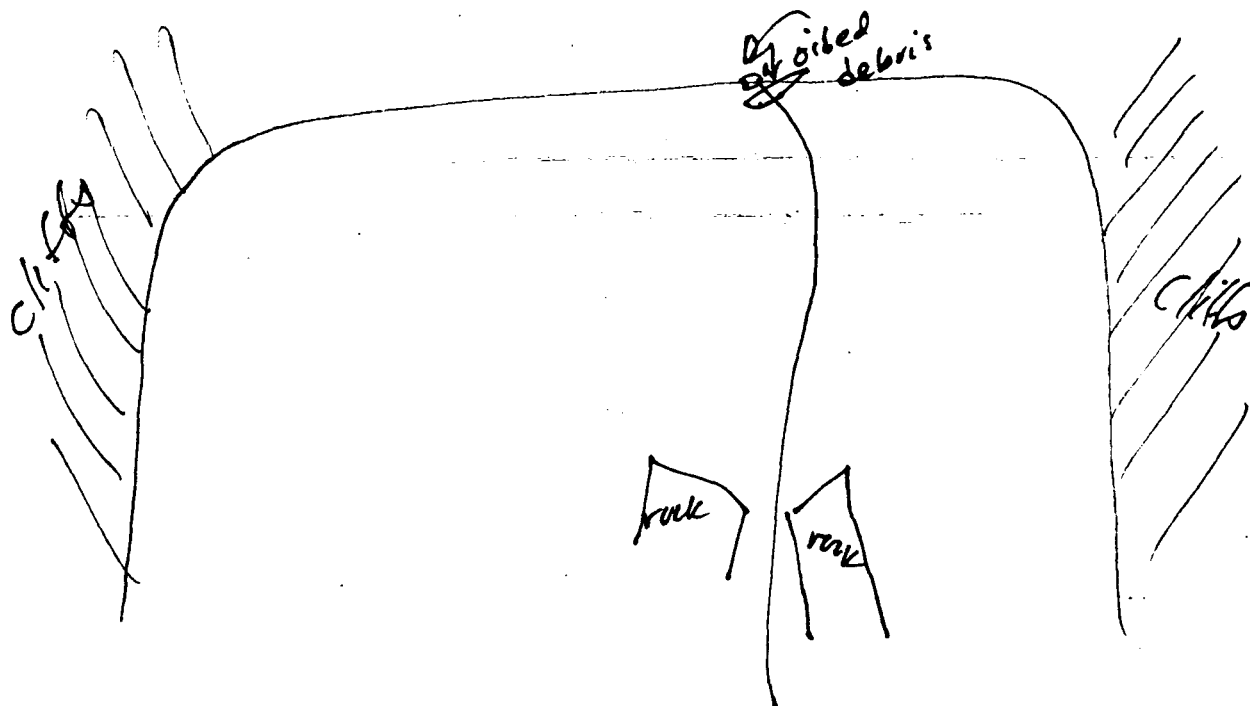
pick up + remove.

45 PHOTOLOG

FRAME(S)

DESCRIPTION

46 OIL DISTRIBUTION DIAGRAM



4-12-90

MA009 ASW
226-20-15044

= Sample taken
= Photo frame # and
shot direction.

ACE 6331726 -15

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

ASC NUMBER: TEAM RECORDER:
 SURVEY TYPE: OBSERVERS:
 METHOD:
 DATE: / / AGENCY(IES):
 START TIME: PHOTOS TAKEN?
 STOP TIME: 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							NO OIL
SITE 2							
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT:

OIL IN STREAM CHANNEL?

SUBSTRATE

Bedrock	Granule
Boulder	Sand
Cobble	Silt
Pebble	Veget.

OIL ON BEACH WITHIN 50M OF STREAM MOUTH?

SPECIES					
COUNT					

COMMENTS:

leave out. OK.

CATALOG NUMBER: 2252015044 STREAM NAME: LOCATION: MAINLAND, MAIN BAY, SOUTH OF							SEGMENT NUMBER: MA009 A SHORELINE TYPE: DATE: 04/12/90 TIME: COVE -1050		
SITE	WIDTH (m)	LENGTH (m)	AREA (sqm)	PERCENT OIL	THICKNESS (cm)	PENETRATION (cm)	SURFACE SUBSURF	OIL TYPES	COMMENTS
1							SURFACE	NO OIL	
COMMENTS: OILED SAUSAGE BOOM & DIAPERS IN STREAM. PICK UP & REMOVE. STREAM BANKS: NO MILE OF STREAM: NO									OIL ON OIL WITHIN 1

CATALOG NUMBER: 2252015044 STREAM NAME: LOCATION: MAINLAND, MAIN BAY, SOUTH OF							SEGMENT NUMBER: MA009 A SHORELINE TYPE: DATE: 04/26/90 TIME: COVE -1110		
SITE	WIDTH (m)	LENGTH (m)	AREA (sqm)	PERCENT OIL	THICKNESS (cm)	PENETRATION (cm)	SURFACE SUBSURF	OIL TYPES	COMMENTS
1							SURFACE	NO OIL	
COMMENTS: NO OIL AT THIS BEACH. NO TREATMENT. STREAM BANKS: NO MILE OF STREAM:									OIL ON OIL WITHIN 1

ADF&G MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS SS DS TS AVS SCHA MMS PTA2 REGION: PWS KP, CI K, APMETHOD: Aerial Ground Boat3 DATE: 4/26/9015 HIGH TIDE TIMES: 152621 TEAM RECORDER: Tom Crown4 START TIME: 104516 HIGH TIDE HTS: +11.2 FT22 OBSERVERS: Mike W. EOMER5 STOP TIME: 111017 LOW TIDE TIMES: 090123 AGENCY: ADF&G ANADSCAT6 SEGMENT #: MA00918 LOW TIDE HTS: -36 F24 PHOTOS TAKEN: Y N

7 STATION #:

19 TIDE HT AT SURVEY: 0

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: BETWEEN MAIN BAY + Foul Bay

14 DESCRIPTION:

EXTENT OF OIL

	SHORELINE				STREAM			
	L	W	M ²	S	L	W	M ²	S
27 SURFACE COVERAGE								
28 SURFACE THICKNESS	(SEE MAPS)							
29 PENETRATION								

30 OVERALL OIL IMPACT: N VL L M H

31 OIL TYPE: Pooled House Tar Asphalt Sticky Stain

32 OILED DEBRIS? Y N33 SHORELINE TYPE: Headland Low-lying Rocks Beach Cave
Lagoon Marsh34 WAVE EXPOSURE: V-High Moderate Low

35 SUBSTRATE TYPE: Bedrock Boulder Cobble

Gravel X Sand Mud/silt

36 CATALOGED ANAD. FISH SREAM? Y N

37 CATALOG #: 226-20-1524438 STREAM NAME: 139 OIL IN STREAM BED? Y N40 OIL ON STREAM BANKS? Y N41 OIL ON BEACH ADJACENT TO MOUTH? Y N
(within 50 meters)

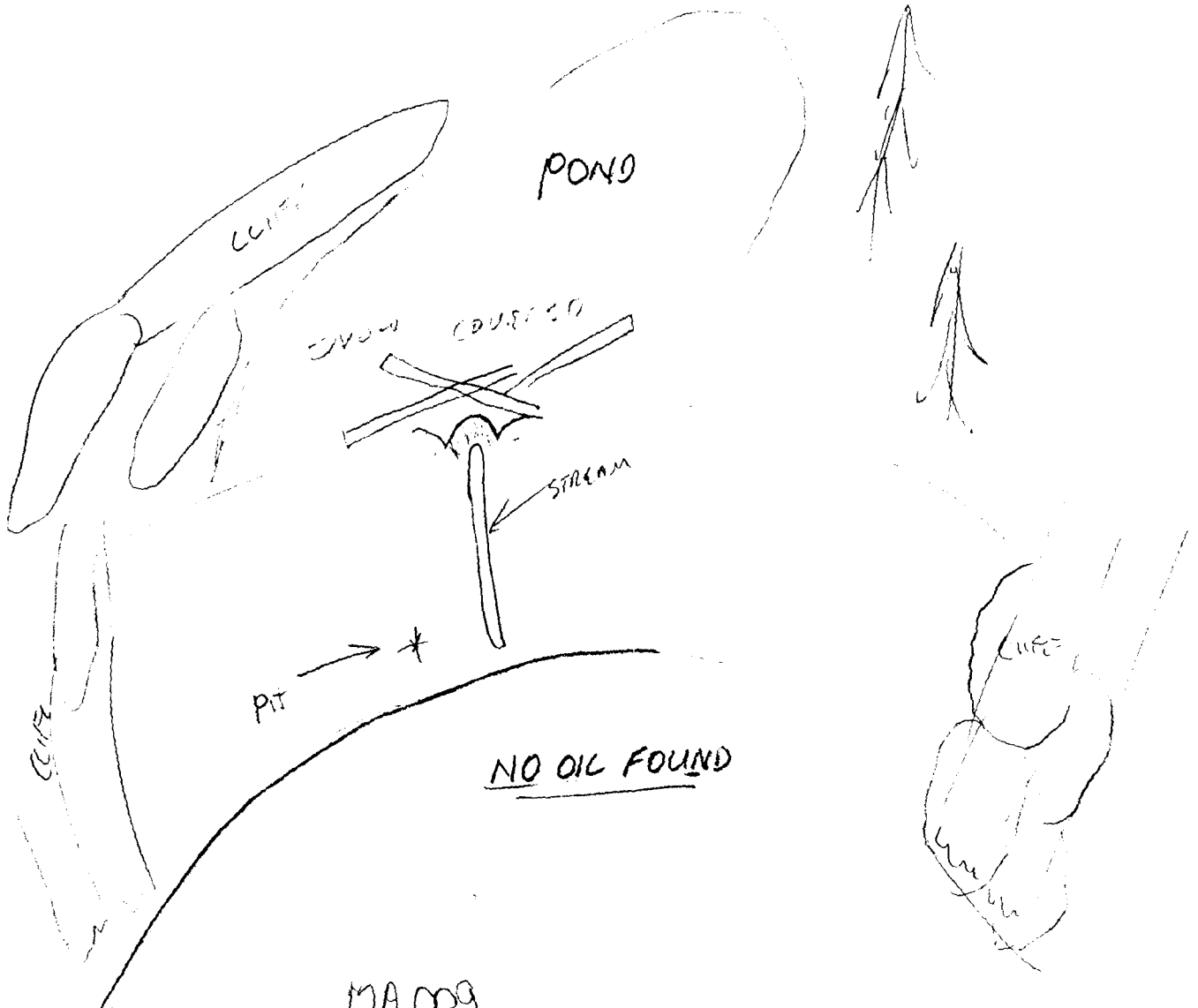
42 OIL WITHIN 1 MILE OF STREAM? Y N

Where:

43 ANADROMOUS FISH PRESENT? Y N

44 ANADROMOUS FISH OBSERVATION
Species Aerial Ground

COMMENTS: NO OIL AT THIS BEACH
NO TREATMENT



MA 009
226-20-15044
4/26/90

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

ASC NUMBER:	TEAM RECORDER:
SURVEY TYPE:	OBSERVERS:
METHOD:	
DATE: / /	AGENCY(IES):
START TIME:	
STOP TIME:	PHOTOS TAKEN?
	Roll #: Frames:
WAVE EXPOS:	VIDEO TAKEN? Tape Number:
	Counter Start:
SAMPLES TAKEN?	
SAMPLE I.D. NUMBERS: 1.	2.
4.	3.
	5.
	6.

	LENGTH	WIDTH	M2	%	THICK	PEN	OIL TYPE
SITE 1							NO OIL
SITE 2							
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT:

OIL IN STREAM CHANNEL?

OIL ON BEACH WITHIN 50M OF STREAM MOUTH?

SUBSTRATE

Bedrock	Granule
Boulder	Sand
Cobble	Silt
Pebble	Veget.

SPECIES

COUNT

COMMENTS:

6/42

ACF&G MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS SS CS TS AVS SCH MMS PTA

2 REGION: PWS KP,CI K,AP

METHOD: Aerial Ground Boat

3 DATE: 4/26/90

15 HIGH TIDE TIMES: 1526

21 TEAM RECORDER: Tom Crowe

4 START TIME: 1045

16 HIGH TIDE HTS: +112 FT

22 OBSERVERS: Mike W. EOMER

5 STOP TIME: 1110

17 LOW TIDE TIMES: 0901

23 AGENCY: ADFG ANAD SEAT

6 SEGMENT #: MA009

18 LOW TIDE HTS: -36 FT

24 PHOTOS TAKEN: Y N

7 STATION #:

19 TIDE HT AT SURVEY: 0

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 Loren

Oil

13 LOCATION: BETWEEN MAIN BAY + Foul Bay

Sediment

14 DESCRIPTION:

Biological

Water

EXTENT OF OIL

	SHORELINE				STREAM			
	L	Y	M ²	%	L	Y	M ²	%
27 SURFACE COVERAGE								
28 SURFACE THICKNESS			(SEE MAPS)					
29 PENETRATION								

36 CATALOGED ANAD. FISH SKEIN? Y N

37 CATALOG #: 226-20-15044

38 STREAM NAME: r

39 OIL IN STREAM BED? Y N

40 OIL ON STREAM BANKS? Y N

30 OVERALL OIL IMPACT: N VL L M H

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

31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain

42 OIL WITHIN 1 MILE OF STREAM? Y N

32 OILED DEBRIS? Y N

Where:

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

43 ANADROMOUS FISH PRESENT? Y N

34 WAVE EXPOSURE: V. High Moderate Low

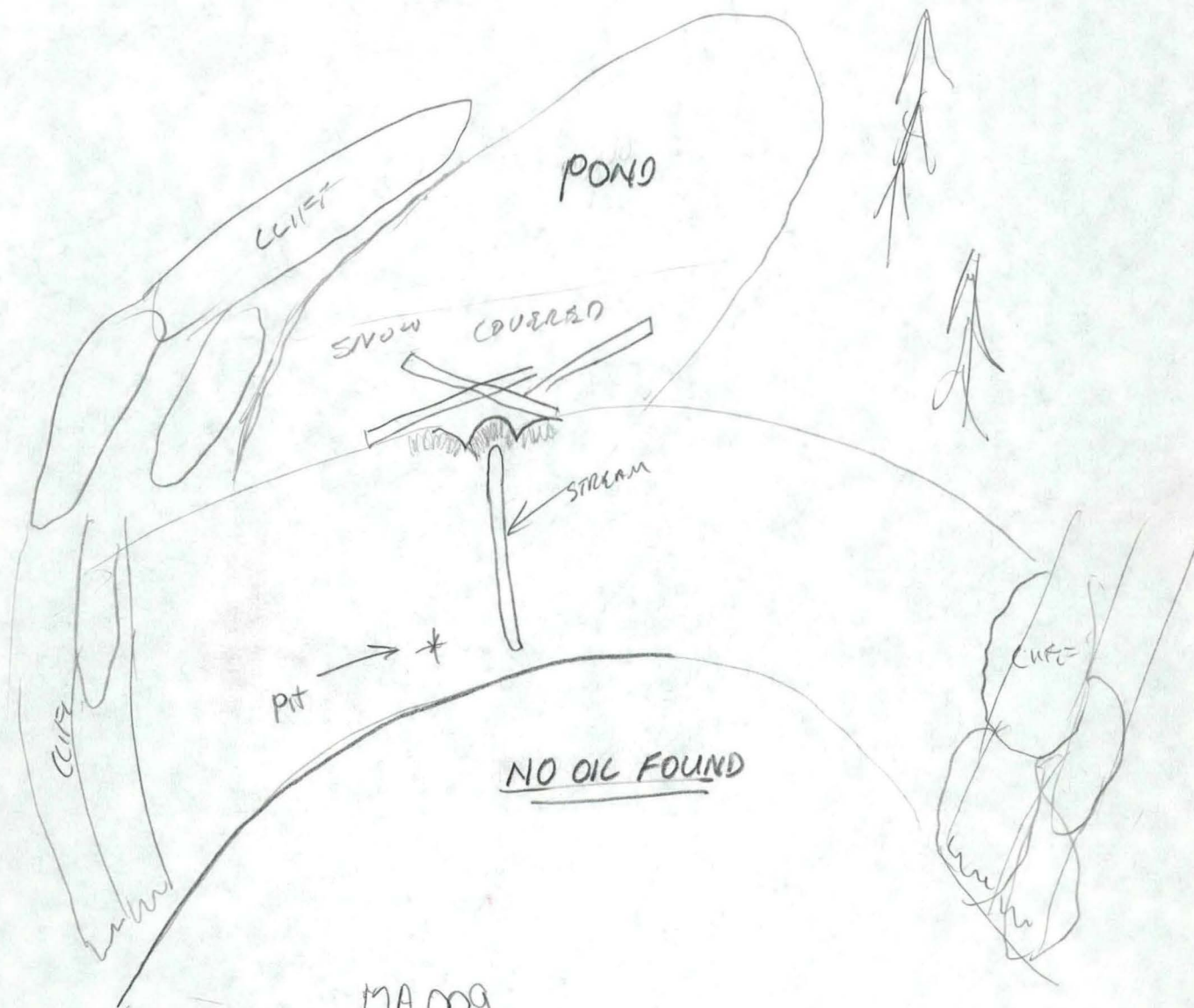
44 ANADROMOUS FISH OBSERVATION
Species Aerial Ground

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

COMMENTS: NO OIL AT THIS BEACH

NO TREATMENT

I agree. M. J. Fawcett



MA 009
226-20-15044
4/26/90

Alaska Department of Fish and Game

ANADSCAT Observations and Recommendations
Team 15 - Michael Wiedmer and Tom Crowe

26 April 1990

ASC # 226-20-16180

Segment CH-002

2 Observations The intertidal zone surrounding this channel is confined to a low energy, elongated cove. Southeast of the channel, mousse patties are broadly scattered through the intertidal zone. Northwest of the channel, heavy tar occurs throughout the upper- and mid-intertidal zone. A large portion of the tar in this area is buried by a mobile gravel berm. In the supra-tidal zone, a grassy area contains intermittent tar patties.

Treatment Recommendations Manually remove all tar mats and patties. Uncover the tar mats buried by the gravel berm and manually remove oil. See the ADF&G Multi-Assessment Data Form for additional treatment suggestions.

ASC # 226-20-15060

✓ 1 Segment EB-001

Observations The only oil observed at the site was a very light stain in a small upper-intertidal area south of the channel.

Treatment Recommendations No treatment is required.

ASC # 226-20-15044

Segment MA-009

W 1 Observations The intertidal portion of this site is composed of a very unstable, mobile gravel substrate. No oil was observed either surface or subsurface.

Treatment Recommendations No treatment is recommended.

SHORELINE OILING SUMMARY (ANAD.)

REVISION NO. 04

OG WILLIAM LED USCG McMAHON GMENT ST/ MA009 8/42
 BIO MICHAEL FAWCETT LAND REP TOM CROWE - ADFG STREAM 225-20-150-441 OF
 EXXON CUS GARCIA ADFG MIKE VIEDMER TIME 10:45 to
 TEAM NO. 15 TIDE LEVEL -0.5 ft DATE 26 / APR / 90
 EST. SUBDIVISION LENGTH: 60 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R 30 % B 70 % C 30 % P 70 % G 70 % S 70 % M 70 % V
 SLOPE: Lang 25 % Hang 75 % Vert 75 % WAVE EXPOSURE: ☐ Low ☐ Med ☒ High
 OIL CATEGORY LENGTH: W 60 m M 60 m N 60 m VL 60 m NO 60

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR						IMPACTED ZONES			
	IC	IS	IP	IS	BR	OR	OL	OF	NO	CH	SU	U	M	U
ASPHALT PAVEMENT														
POOLED														
COVER														
COAT														
STAIN														
MOUSSE														
PATTIES														
TARBALLS														
FILM														
NO OIL	NONE													

PAVEMENT H F S 60 sq. m by 60PATTIES / TARBALLS 60 BANEAR SHORE SHEEN? ☒ NO BR RW SL T

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

Did you collect DEBRIS
☐ YES ☒ NO

TYPE 60#BAGS 60

Photographs:

Roll No. A5-15-6Frames 19-20

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		UO	UC	BR	OR	OL	OF	NO	CH	SU	U	M	U			
1	35					X	-											X			N	P/C
2	40					X	-											X			N	P/C
3	40					X	-									X					N	P/C
							-															
							-															
							-															

COMMENTS

UNSTABLE & HIGHLY MOBILE SEDIMENTS

REVIEWED 60 DATE 60

ACE 6331706

8/17/90

OG WILLIAM REID

SEGMENT ST/ MAC009

STREAM 226-20-15044

DATE 26 / 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
Pit - No Subsurface Oil
- 2 $\blacktriangle$
Pit - Subsurface Oil
- CT/C

Continuous Distribution
- CT/B

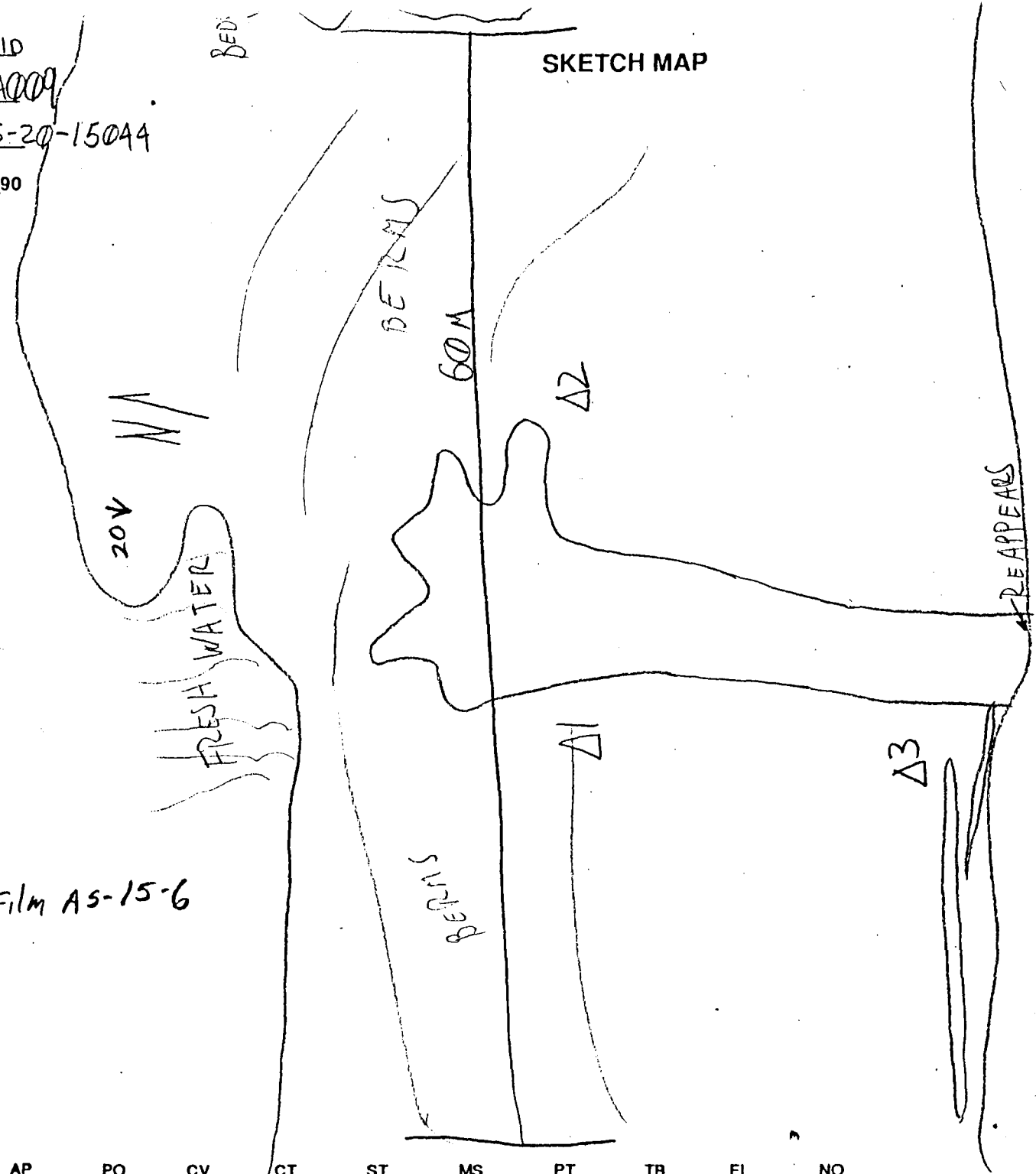
Broken Distribution
- CT/P

Patchy Distribution
- CT/S

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

Film A5-15-6

SKETCH MAP



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

REVISION: 03/24/90

ACE 6331707

Segment MA 009
Stream 226-20-15044
Ecological Summary

4/26/90
Michael Fawcett

This stream enters a high-energy pebble/
gravel beach. At present the stream
emerges from the base of a 15 ft high
berm and flows only about 20 m before
sinking into the pebbles again (at a minus tide).
Since the beach sediments are highly mobile,
there is no evident macro-biota.
No oil was found. No cleanup is needed.

M H Fawcett

FIELD SHORELINE COMMENT SHEET

5/42

SEGMENT ST 1 MA 00 9 SUBDIVISION: 15044 DATE 4/26/90

USCG

NAME CWO MC MAHON SIGNATURE [Signature]

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

ADEC

NAME TOM CROWE SIGNATURE [Signature]

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

LAND MANAGER

NAME _____ SIGNATURE _____

☐ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

ACE 6331703

OPERATIONS FIELD NOTES

See Back for Instructions

4/42

SEGMENT ID ANAD MA-009
 STREAM ID # 226-20-15044
 ANNOTATED MAP INCLUDED Y(N)

DATE 4-26-90
 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	NONE									
Medium Band										
Narrow Band										
Very Light										
TOTAL MANDAYS						0		0		0

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									
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								
"Pocket" #3								
Random/Continuous								

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

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

GENERAL
 Wave Exposure (H) M/L Snow covering 60 % 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? Y(N) # of Times —

COMMENTS: NO TREATMENT RECOMMENDED FOR THIS STREAM.

ANA MOUS FISH STREAM EVALUAT

SEGMENT ST/ MA-09 STREAM NO: 226-20-15044 DATE 4/26/90

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)
1E Main Bay Hatchery release (4/20 to 6/15)
1L Set net sites (6/11 to 7/25)
6Y Recreation: Special use destination

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 within Subdivision A (1 of 1).

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: J. Daniel McMahon DATE: 5/9/90

Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

<u>X</u> No Treatment Recommended	<u> </u> Snare/Absorbent Booms
<u> </u> Treatment Recommended	<u> </u> Oil Snares (pom poms)
<u> </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:

TAG COMMENTS:

TAG APPROVAL DATE: 5/9/90
ADEC Art Weiner
EXXON Andy
NOAA Burt Weir
USCG D.D. Rome

FOSC: W L DATE: 5-15-90

2416

00 WILLIAM KEID

SEGMENT ST/ 11000

STREAM 226120-15044

DATE 26 / APR 90

CHECKLIST

- ☐ N Area
- ☐ Approx. Grid
- ☐ Sample Grid
- ☐ CI Dist
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HWA/LAR
- ☐ SS
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ PI Location(s)
- ☐ Photo Location(s)

LEGEND

1 Δ
PI - No Substrate CI

2 Δ
PI - Substrate CI

CT/C
Continuous Distribution

CT/D
Patchy Distribution

CT/E
Patchy Distribution

CT/F
Spotted Distribution

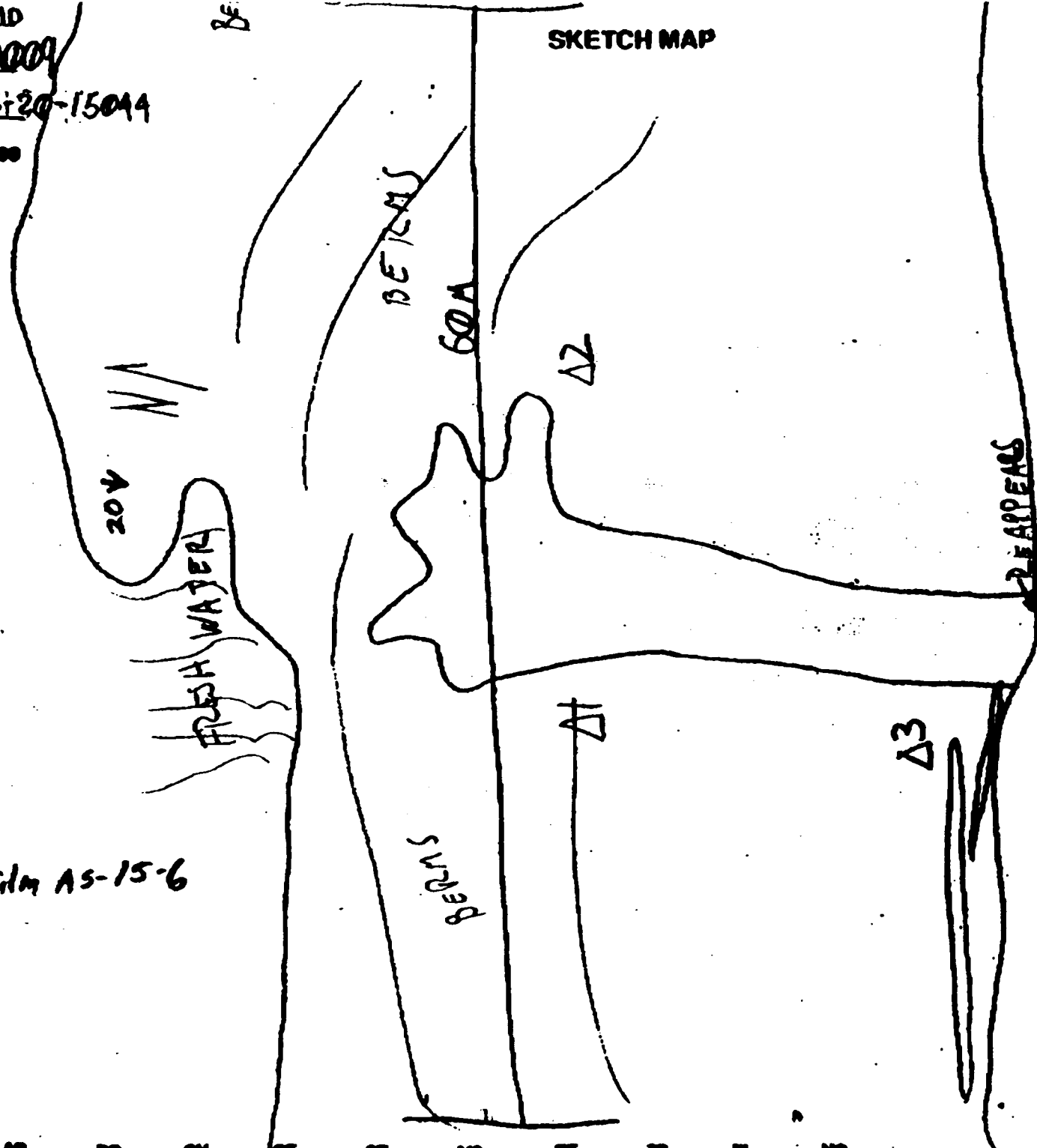
lll
Other Vegetation

1 00
Photo location, direction,
and number

Film AS-15-6

CI Character Length (m): AP PO OV CT ST MB PT TB FL NO

SKETCH MAP



19V
P/C BERN + SNOW

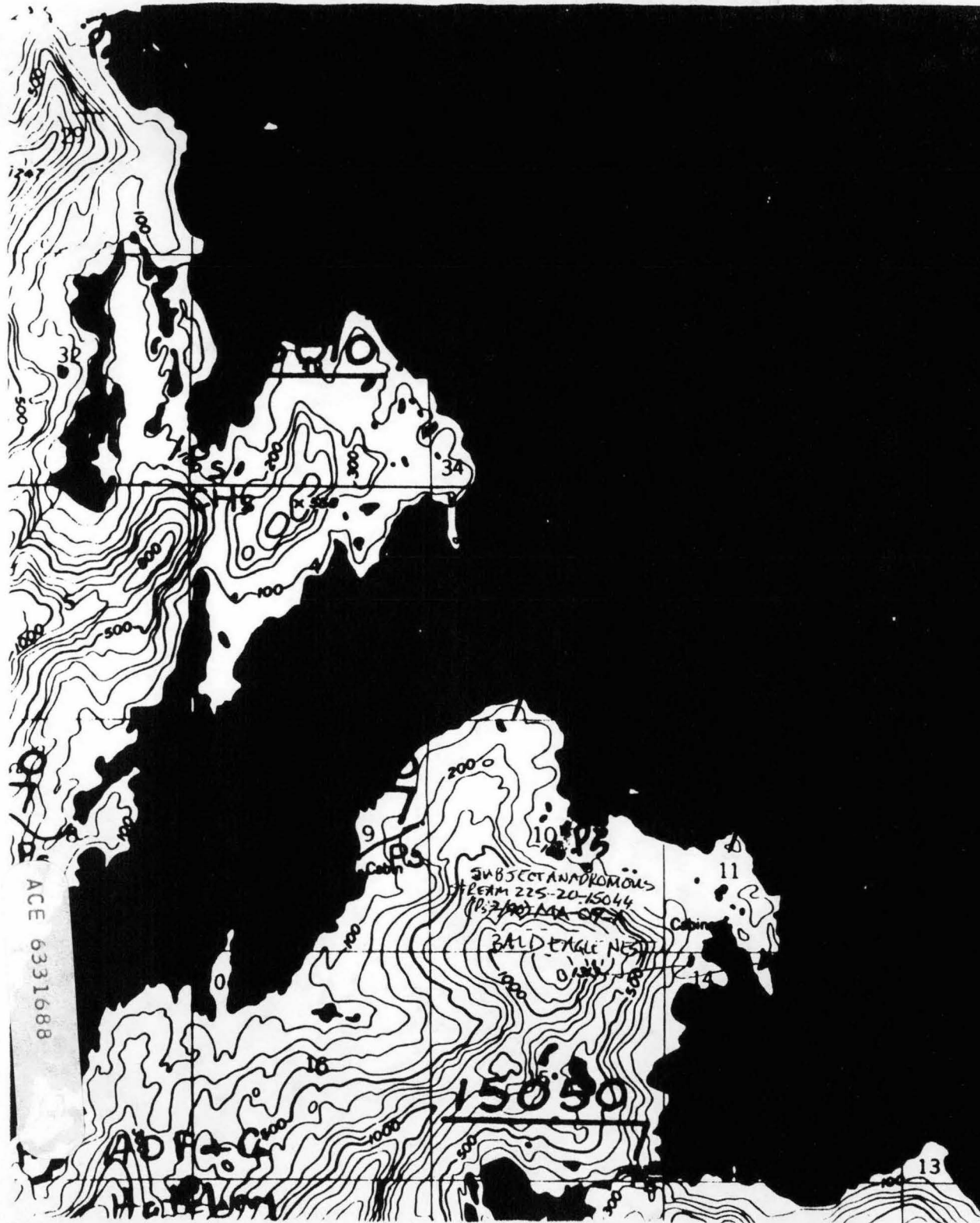
DISAPPEARS

ACE 6331687

REVISION

ECOLOGICAL MAP
MA-009-A (1 of 1)

1A, 1B
1E, 1L



10/42

SSAT DATA ENTRY FORM

PAGE 1 OF 2

GENERAL DATA

226-20-
SEG ID: MA 009 SUBDIV: 15044 TEAM: AS-15 SURVEY DATE: 4/26/90
PAVEMENT: CHAR — AREA 0 THICKNESS 0 TARBALLS 0
OILED: LGS — VEG — TRH — DBR — WAVE EXP: LW — MD — HG X
FAX RCVD: — DT: — AGENCY DISAGREE: —
EST SUBDIV LGTH: 60 OIL CATEGORY: W 0 M 0 N 0 VL 0 NO 60 U 0

SURFACE DATA

SURFACE SEDIMENT: BRK 0 BLD 0 COB 30 PEB 70 GRN 0 SAN 0 MUD 0 VEG 0

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 —

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 —

11/42

SSAT DATA ENTRY FORM

SUBSURFACE DATA

PAGE 2 OF 2

SEGMENT ID: MA009 SUBDIV: 226-20-15044

PIT # 1 PIT DEPTH 35 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 40 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 # 3 PIT DEPTH 40 OIL CHARACTER - OIL INTVAL: FROM 0 TO 0
QUANT: - OIL CLR: - FLM CLR: - ZONE: SU - UI X MI - LI -
SUBSURF SEDIMENT: BRK - BLD - 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:

*Received
5/8/90
gm*

RECEIVED
MAY 05 1990

DEPT. OF
ENVIRONMENTAL CONSERVATION

ANADROMOUS FISH STREAM ASSESSMENT

REGION: PRINCE WILLIAM SOUND

SEGMENT: MA-09

STREAM NO: 226-20-15044

CONCUR

*NO CHANGE
TC*

- ✓ 1A Salmon stream mouth - fry outmigration to 5/15)
 ✓ 1B Salmon stream mouth - spawning (7/10 /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 (6/15 to 9/15)
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts. No application of Inipol within two weeks of arrival dates (work window at these sites is limited to 7/2 to 7/31). Contact ADF&G and USFWS prior to treatment for confirmation.
 AGENCY CONTACT PERSON: US National Marine Fisheries Service Steve Zimmerman 586-7235
 ADF&G Don Calkins 267-2403
- 5R Seabird colony (5/1 to 9/1)
 Restrict air and boat traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance from colony. Contact USFWS prior to treatment.
 AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
- 5S Shorebird/waterfowl concentration (4/1 to 5/15)
 Restrict all activity to essential minimum, especially air traffic. Contact USFWS and ADF&G for confirmation.
 AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
 ADF&G Tom Roth 267-2206
- 5T All Bald Eagle nests (3/1 to 6/1)
 Active Bald Eagle nests (3/1 to 9/1)
 Restrict air traffic and all disturbance to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates.
 AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
- 6U Recreation: Tent sites (6/1 to 9/15)
 6V Anchorages (6/1 to 9/15)
 6W Forest Service cabins (6/1 to 9/15)
 ✓ 6X Lodge (6/1 to 9/15)
 6Y Special use destination
- 7Z Subsistence area: Salmon harvesting (5/1 to 9/30)
 7HH Finfish harvesting
 7II Deer harvesting (6/15 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

ACE 6331692

Final Anadromous Stream Treatment Information

Segment ID - Stream ID	NTR	Bio	Bio Start	Bio End	Man	Man Start	Man End
K0911-CD020 262-10-10080					X	6/28/90	6/28/90
K0911-CD020 262-10-10092					X	6/28/90	6/28/90
K0917-CC100 262-15-10040	X						
K0919-HB001 262-20-10040					X	6/12/90	6/14/90
K0919-HB004 262-20-10030	X						
K1002-AB002 262-65-655					X	7/7/90	7/8/90
K1007-PB001 262-70-10025					X	6/23/90	6/24/90
K1007-PB016 262-70-10010					X	7/10/90	7/10/90
K1009-DB008 262-75-10020	X						
KN0103 226-10-16922		X	7/7/90	9/1/90	X	7/7/90	7/7/90
KN0106 226-10-16890					X	6/30/90	6/30/90
KN0110 226-10-16928	X						
KN0120 226-10-16940	X						
KN0129 226-10-16975					X	5/30/90	5/30/90
KN0129 KN0129-UNCAT		X	6/19/90	6/19/90	X	5/30/90	5/30/90
KN0132 226-10-16982		X	6/19/90	9/11/90	X	5/26/90	5/29/90
KN0134 226-30-16865		X	6/23/90	6/23/90	X	6/23/90	6/23/90
KN0201 226-30-16872					X	6/1/90	6/1/90
KN0205 226-30-16860					X	6/1/90	6/3/90
KN0211 226-10-16875		X	7/1/90	7/9/90	X	7/1/90	7/9/90
KN0211 226-10-16880					X	7/1/90	7/1/90
KN0213 226-30-16853		X	7/1/90	7/6/90	X	7/1/90	7/6/90
KN0401 226-30-16820					X	6/30/90	6/30/90
KN0500 226-10-16992		X	7/5/90	9/11/90	X	7/5/90	7/7/90
KN0500 226-10-16996		X	7/7/90	9/11/90	X	7/5/90	7/7/90
KN0601 226-40-16855	X						
KN0602 226-40-16851	X						
KN0602 226-40-16853	X						
KN0701 226-30-16840		X	6/30/90	9/13/90	X	6/30/90	7/27/90
KN0704 226-30-16844	X						
LA015 226-40-16782		X	7/3/90	7/8/90	X	7/3/90	7/8/90
LA018 226-40-16780		X	7/3/90	8/26/90	X	6/15/90	7/4/90
LA021 226-40-16774		X	6/17/90	6/17/90	X	6/13/90	6/14/90
LA021 226-40-16776	X						
LA023 226-40-16772	X						
LA029 226-40-16788	X						
LA031 226-40-16785	X						
MA009 226-20-15044	X						
MN001 227-20-17570	X						
NA026 226-40-12950	X						
NK001 232-21-10230		X	7/3/90	7/4/90	X	7/3/90	7/4/90
PD002 242-42-10450					X	6/21/90	6/23/90
PD003 242-42-10460					X	6/21/90	6/23/90
TB002 232-10-10340					X	7/1/90	7/1/90
TB003 232-10-10342					X	6/20/90	7/1/90
WB001 242-32-10155					X	6/19/90	6/19/90
WB003 242-32-10160					X	6/19/90	6/19/90
WH003 226-40-16322		X	7/8/90	7/8/90	X	7/8/90	7/8/90

Date: 8/15/90

**ADEC DEMOBILIZATION REPORT
FOR INIPOL AND CUSTOMBLEN TREATMENT**

~~X~~ *Reapplication* ~~X~~

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 MA-09 SUBSEGMENT NUMBER A

ADEC REP Chris Strand USCG REP Dan Percy

EXXON REP Frank Box BOAT NAME/SQUAD NUMBER Don Bellinger/squad #3

Site #	Length (along shore m)	Area m ²	Inipol (gallons)	Customblen (lbs.)
<u>See Attached</u>				

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

A Areas of previous treatment revised as per original work order and monitor consensus.

Describe the amount of oil remaining (type, size of area and location). South east site around bedrock outcrop (~10m from stream indent): Boulder/cobble/minor pebble over burden has coat/cover sporadically patched, light-moderate residue in pebble/granule/sand submatrix. Central site has angular small boulder/cobble beach with sub surface light - minor moderate residue. North site has very firm oil nook collections in vertical fractured foliating shales; coat/cover over general bedrock area, extending into upper shoulder region; minor residue in granule/sand ~~sub~~ submatrix, with coat/cover also present on scattered boulder/cobbles.

Additional Comments (keep objective)

Northern area busted up with shovels and rakes for 5 minutes prior to bio.

signature C. Strand 8/15/90

Date and time of demobilization from segment 8/15/90, 1105
Shoremon/Demob.bio 55/30/90

ACE 6331682
+151AC

ADEC DEMOBILIZATION REPORT FOR INIPOL AND CUSTOMBLIN 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 MA-09 SUBSEGMENT NUMBER A

ADEC REP Chris Strand

USCG REP Chris Van Pelt

EXXON REP Al Snook

BOAT NAME/SQUAD NUMBER Arctic Salvor, Squad #4

Site #	Length (along shore m)	Area m ²	Inipol (gallons)	Customblin (lbs.)
①	12	108	—	30
	13	39	—	
②	12 (60%)	79.2	7	3
③	24	182	14.5	7

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.

After inspection, only southern 3 sites still contained observable oil. These were minimally tilled, and applied with Inipol and Customblin as was applicable. This conforms to work order and on scene coast guard requests.

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

Only locatable oil was in described sites above. These were patches of film and residue in cobble/pebble/gravel matrixes, and solid asphalt in collections of cracks atop vertical slate bedrock.

Additional Comments (keep objective)

Above data (numbers) represent oil geomorphologists' estimates. Today was final allowable work day within restrictions, and notification of this duty roster came less than 24 hours prior. This creates unneeded pressures to demobilize site, and crews worked past 2000 to capture tidal window.

signature C. Strand 6/7 '90

Date and time of demobilization from segment 6/7 '90 2210

Shoremon\Demob.bio 55/30/90

X
10/9/12

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 MA-09 SUBSEGMENT NUMBER A

DEC REP JEFF GUALIAS USCG REP SCOTT RAINSFORD

EXXON REP RANDY BOYER BOAT NAME/SQUAD NUMBER REGULAH LANDS
SQUAD # 6

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, BUT FOR BIOREMEDIATION

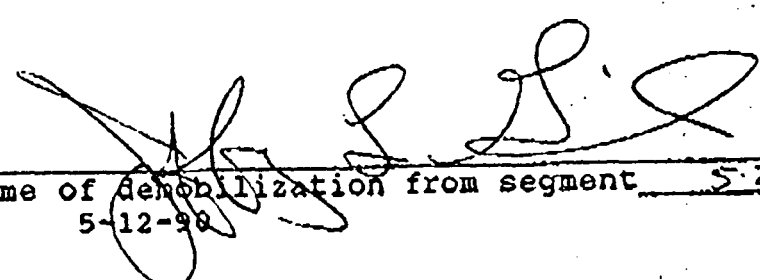
Is there additional oil remaining which can be removed with further physical/mechanical treatment? If yes what is the recommended treatment method.

NO

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

NONE, OTHER THAN INCIDENTAL OIL IN
SUBSTRATE ON FRINGE OF TARMAT REMOVAL AREA

Additional Comments (keep objective)

signature 

Date and time of demobilization from segment 5-24-90 17:20
Shoremon\55 5-12-90

[illegible]

500.0

OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed

Distance In Meters

ADEC Sep/Oct 1989 Survey

walk-a-tron
89

ACE 6331727

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: MA009
LOCATION: S OF MAIN BAY

DATE: 09/13/89
TIME: 11:00

Survey Type: Boat, Ground
Team: G. Pavia, B. McCready

WEATHER AND SEA CONDITIONS

Weather: Sunny
Sea State: Calm

Wind Direction: 0
Knots: 0

Low Tide: 6:40	Feet: -0.3	High Tide: 13:01	Feet: 11.1
Low Tide: 18:47	Feet: 2.09	High Tide: 0:01	Feet: 12.2

SHORELINE DESCRIPTION

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

Wave Exposure: H,M (H=high, M=moderate, L=low)

Shoreline Composition: R,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

Degree of Oiling: N,VL,L,M,H
(N=none, VL=very light, L=Light, M=moderate, H=heavy)

Area of Impact: H
(S=supratidal, H=high intertidal, M=mid tidal, L=low intertidal)

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)

Max. Oil Penetration: 20 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%

Presence of Oiled Driftwood (y/n): n

Oil Types: M,SY,T,ST

(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)

Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

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

SOLID WASTE FOUND

Type: None

Bags Collected: 0

Draft

Printed: 12/12/89 11:49

ACE 6331680

Walk-a-thon

*Process
4/25
RH.*

RECEIVED

APR 23 1990

DEPT. OF
ENVIRONMENTAL CONSERVATION

REGION: PRINCE WILLIAM SOUND

SEGMENT: ST/MA-09

SUBDIVISIONS: A (1 OF 1)

*Canoe & pic'd
by Bonnie Turner*

SHORELINE EVALUATION

SEGMENT ST/ MA-09 SUBDIVISION A (1 OF 1) DATE 4/7/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

ADF&G Anadromous stream no. 225-20-15044

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

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

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

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

6Y Recreation: Special use destination

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 _____ m: Medium _____ m: Narrow _____ m: V.Light _____ m: No Oil _____ m
Subsurface Oil Observed: Yes X No _____ Maximum Depth 10 cm

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 activities include 1) remove oiled debris, 2) breakup tarmat and 3) bioremediate areas indicated on map. Work should be conducted between 5/16 and 7/9 due to above listed constraints.

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____

EXXON _____

NOAA _____

USCG _____

FOSC: _____ DATE: _____

ACE 6331715

PWS, SEWARD AND HOMER ECOLOGICAL CONSTRAINTS

- 1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
- 1B 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. 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) 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
- 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 unopened 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
- 7H Deer harvesting (8/15 to 2/28)
- 7JJ Invertebrate harvesting
For Codes 7Z through 7JJ contact ADF&G and Chenega Corporation for specific dates, locations, and constraints.

FIELD SHORELINE COMMENT SHEET

SEGMENT ST/ MA-09 SUBDIVISION: A-1 of 1 DATE 04/07/90

USCG

NAME David S. Thomas

SIGNATURE [Signature]

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

ADEC

NAME Clara Crosby

SIGNATURE Clara S. Crosby

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

Supratidal not observed, due to snow cover to 3 feet.
Heavy storm berm prevented thorough view of VI - in some
pocket beaches - (High energy) - The South Eastern beach -
of heavy coverage: Diking will be only partially inundated
every month.
Suggest manual pickups of AP's debris -

LAND MANAGER

NAME MARSHA MARTIN/DNR

SIGNATURE Marsha Martin

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

Shore fishery LEASE ADL 32881 located at
South East portion segment. Roll 1, photo 21
of oiling under Rock ON Bedrock.

SHORELINE OILING SUMMARY

REVISION NO 03/22/99

OG Rick GILLIE USCG bm 1 Thomas SEGMENT ST/ MA-09
 BIO DAVE Lohr LAND REP Marsha Martin SUBDIVISION A-10f1
 EXXON FRANK Dry ADEC Chara Crosby (ADNR) TIME 16:10 to 18:55
 TEAM NO.: 13 TIDE LEVEL: +5 10 0 DATE 04/07/90
 EST. SUBDIVISION LENGTH: 2,738 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☐ Rock 1-2' SNOW IN SUPRA-TIDAL
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: N to S
 SURFACE SEDIMENTS: R 40 % B 20 % C 20 % P 20 % G 0 % S 0 % M 0 % V 0 %
 SLOPE: Lang 40 % Hang 30 % Vert 30 % WAVE EXPOSURE: ☐ Low ☐ Med ☒ High
 OIL CATEGORY LENGTH: W 50 m M 80 m N 0 m VL 1,200 m NO 1,409 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	C	E	P	S	* /	/	/	/	/	/	/	/	SU	U	M	U
ASPHALT PAVEMENT		✓	X			✓							✓			
POOLED																
COVER																
COAT	*		X	✓	*	✓							*	✓		
STAIN																
MOUSSE																
PATTIES				X		X							X			
TARBALLS																
FILM				X			X						X			
NO OIL													X		X	X

PAVEMENT: H F S 20 sq. m by 5 cmPATTIES / TARBALLS 0.1 BAGSNEAR SHORE SHEEN? NO BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris	X		

DEBRIS COLLECTED
☐ YES ☒ NOTYPE N/A#BAGS N/A

Photographs:

Roll No. ST-13-3Frames 14-17

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CH)	BELOW		OIL / FILM COLOR								PIT ZONE				A N A	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		VO	UC	SP	BP	OP	BP	OT	BP	TR	UC	SU	U	M	U		
1	20					X	.										X					P	
2	30					X	.										X					P	
3	15	X					5-10		X		X						X					C, P, G, M	
4	20		X				5-10		X		X						X					G/S Veg	
5	10		X				5-10		X		X						X					C, G, D, M	
6	40					X	.										X					P, G	

COMMENTS

ACE 6331718

SEGMENT ST/ MA-09 SUBDIVISION A, 1 of 1

REVISION 03/22/90

[illegible]

COMMENTS

REVIEWED _____ DATE _____

ACE 6331719

SHORELINE ECOLOGICAL SUMMARY

REVISION: 08/22/90

Segment ST / MA 009 Subdivision A Date (mo / day / yr) 4-7-90

Time (24 hr) 15:30 Biologist David Cohen

(A) Substrate type and % of segments:
(1) Bedrock 40 (2) Boulder 20 (3) Cobble 20 (4) Pebble 20 (5) Sand (6) Silt

(B) Overall % cover of biota (% of segment): Dense 30 Moderate 30 Low 40

(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: ST-13-3
Roll No.

Frames 14-17

BARNACLES

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	X	2	X	X	2	X	2	X
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

NOT PRESENT

MYTILUS

Dense			Moderate			Sparse			Rare		
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

NOT PRESENT

GASTROPODS

Dense			Moderate			Sparse			Rare		
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

NOT PRESENT

FUCUS

Dense			Moderate			Sparse			Rare		
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

NOT PRESENT

Wildlife Observations/ General Comments:

See page 2

Ecological Considerations:

1E, 1L, 6Y - no comment

1B - 5 running streams located in segment. All 5 were covered with snow above high tide line. Streams 1-4 had no oil in intertidal region. Stream 5 the easternmost stream (close to border of MA 010) had oil present in intertidal area.

Shoeline Ecological Summary

Lot 2

Seymour ST-MA009

Subdivision A

4-7-90

Biologist: David Lohr

Wildlife Observations / General Comments

1. present in low intertidal: Halosarcia, coralline algae, ~~Anthopleura~~,
Anthopleura, Entromorpha, Scytosiphon

mid intertidal: Cladophora, Entromorpha, Ulva, Scytosiphon,
coralline algae, Halosarcia, Ectocarpus, Sculp,
Pagurus, unidentified red algal "branch",
Zostera? (mid intertidal pools)

2. 1 mature bald eagle spotted

3. Bear and deer tracks spotted above high tide line

4. Bald eagle tracks and tracks of small animal found together
at high tide line. Both sets of tracks converged on an area where
the sand was greatly disturbed.

5. Mortality of mussels in mid-intertidal puddles ranged from
35-90%.

6. One freshly dead squid found washed up on high ~~low~~ intertidal
bedrock.

7. There were many high intertidal tide pools. Entromorpha and
gastropods (mostly Littorina) were mod-dense in these pools.

8. Entromorpha dense in some areas on low intertidal cobble and boulder

OG RICK GILLIE

SEGMENT ST/ MA-09

SUBDIVISION A-10f1

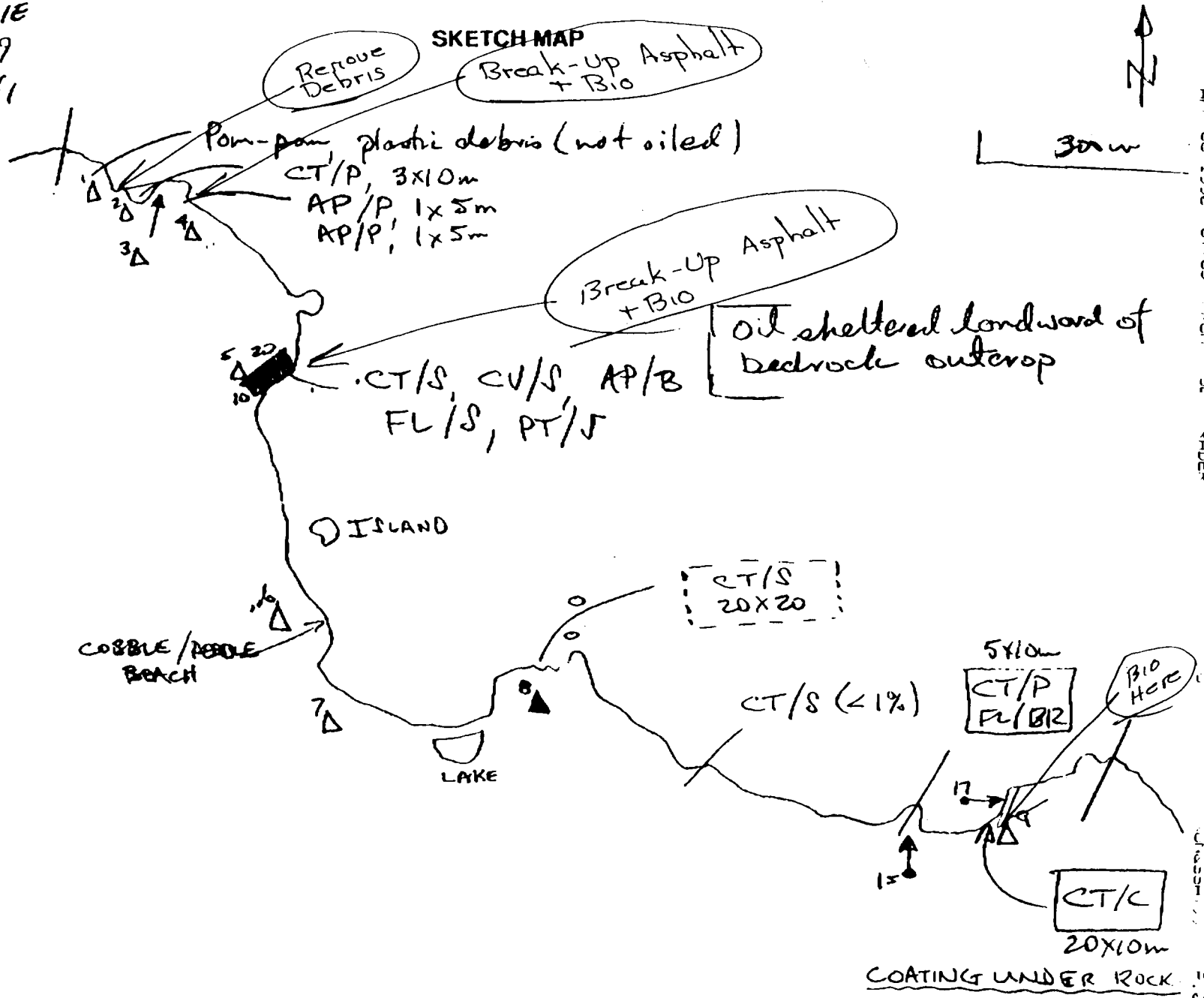
DATE 04, 07 90

CHECKLIST

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

LEGEND

- 1 Δ
- Pt - No Subsurface Oil
- 2 Δ
- 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



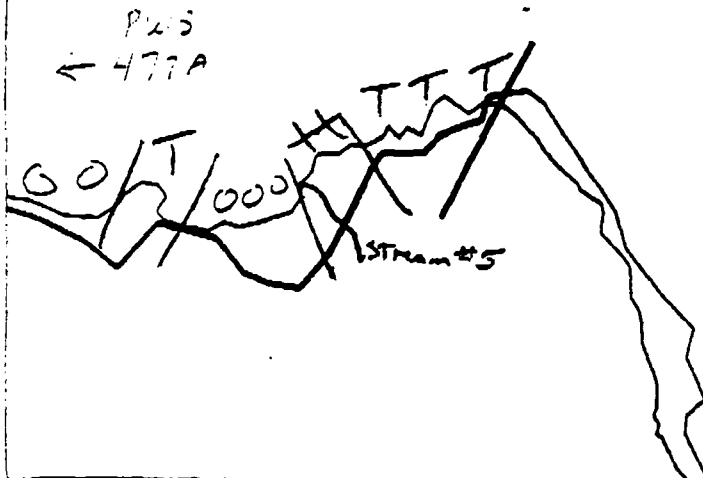
Oil Character Length (m): AP 14 PO 0 CV 2 CT 39 ST 0 MS 0 PT 2 TB 0 FL 5 NO 2676

REVISION: 02/24/90

ACE 6331722

SEGMENT 3 ST/MA-09
SUBDIVISION: A-1 of 1

PART 2



XXXX Wide

//// Medium

--- Narrow

TTTT Very Light

0000 No Oil

MA-9

ADEC Segment Length: 2564m



Map Key: PWS-477b

Name: _____

Date: _____

Data Entered: _____

ACE 6331723

PART I

MA —

PWS
477B →

Data Entered:

ACE 6331724 - 15

ISEWARD C-4

PORT

NELLIE

JUAN

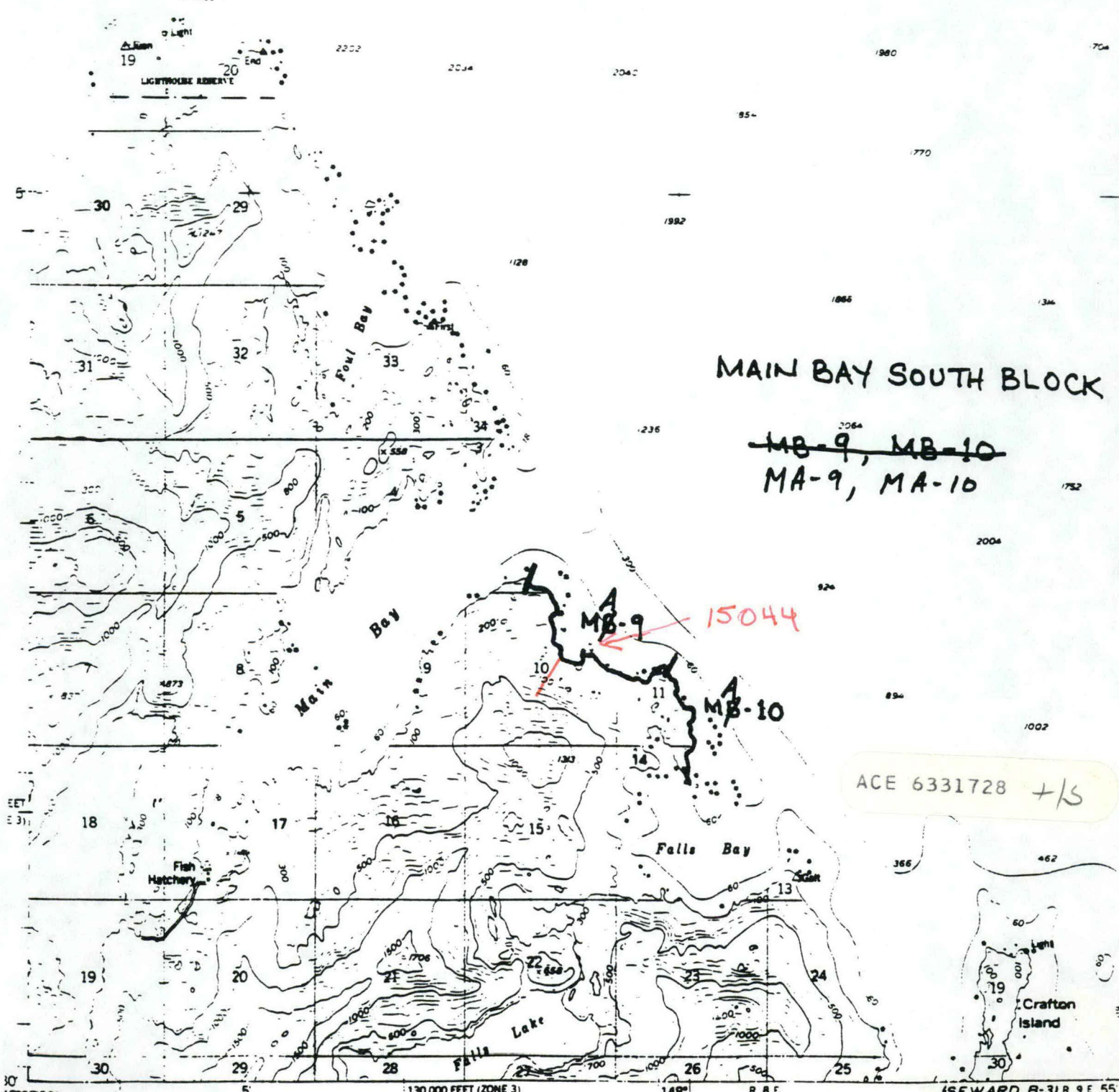
PRINCE

WILL

MAIN BAY SOUTH BLOCK

~~MB-9, MB-10~~
MA-9, MA-10

ACE 6331728 +/S



(version 5/24/89)

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Location (see enclosed map): MAIN BAY SOUTH BLOCK

Includes Shoreline Segments: MA-9, MA-10

Submitted : M.C. Ross Date: 6/3/89
(for Exxon)

ISCC Approval: _____ Date: _____

FOSC Approval: _____ Date: _____

The cleanup procedures identified in the Shoreline Cleanup Program are recommended. Modifications to these systems can be made in the field. Exxon and other field personnel are encouraged to suggest innovations and productivity enhancements to the OSC's on-scene representative. The OSC's representative has the authority to approve on-site modifications. The Field Resource Team should be consulted if these actions do not fit within the Ecological Constraints of the Shoreline Cleanup Program. Requirements for safety and the protection of cultural material must be observed.

Distribution:

Exxon Shoreline Coordinator
Exxon Shoreline Supervisor
Exxon SCAT file

FOSC
CDFU
NOAA
EPA
USDA (FS)
USFW
A.DEC
A.FG
A.DNR
CAC
PWSCA
USFS
SHPO

General:
High priority for mo. ...
No ... 7/24/89
to ...
...
...

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 6/2/89

SHORELINE SEGMENT MA-9

LOCATION: (see enclosed map) Main Bay

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 5/26/89

Recommended Cleanup Activity(ies):

- Manual cleanup of oiled fucus and rocks.
- Use appropriate method to clean heavily oiled beach patches and headlands

Priorities Considerations:

Class 4B, except for risk of oil and fucus patches

Ecological Constraints (from site survey): Recommend manual removal of oiled fucus patches and tarballs. Wash local areas of heavy oiling at mid to high tide.

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.

Charles E. Holmes
State Historic Preservation Officer *

Date: June 2, 1989

EXXON: H.C. Ross

Date: 6/3/89

FOSC: _____

Date: _____

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

SHORELINE OIL EVALUATIONDate: 5/26/89 Time: 8:11Observer: Rick GillieSurveyed From: Foot/Boat/Helio/PlaneWeather: Sun/Cloud/Rain/Snow/FogLOCATION

LOCATION

MAIN BAY

SEGMENT NUMBER

M4
M4-9LENGTH OF SHORELINE SEGMENT: 2,400 mACCESS: Foot/Vehicle/Boat/Barge/Helio/Float PlaneSHORELINE:Shoreline Type: SPI/BEA/COV/HLD/STRTSlope: LANG/HANG/VERWave Exposure: High/Med/LowSediment: B 10% / C 20% / P 30% / G ___% / S ___% / M ___% / R 40%Drift Debris on Beach: Yes/NoSupra/Upper/Mid/Lower TypeLogs
FucusOILDegree of Oiling: Heavy/Moderate/Light/No Oil/UnobservedArea of Beach Impact: SU / SP / H / M / L

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

Sporadic: Y/N % of Segment 10

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

Pooled Oil: _____% "Free" Oil: _____% Coated: H 20% / M 50% / L 30%Fresh 40% Mousse 50% Tar Formation: 10%Drift Debris Oiled? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L

Comments: (Refer to map in back)

- Access is hindered by nearshore reefs.

- ① Pocket beach with tar balls.

② Sporadic oiled Fucus patches.

③ Sporadic oiled Fucus patches.

④ Rocky headland with heavily oiled rock at high tide

⑤ Heavy oiling in patches.

DOCUMENTATION:

Map/Aerial photo marking segment boundaries SEE ATTACHED MAP

VTR: Y/N) Tape Number(s) _____

Photography: ~~Y~~ Roll Number(s) TSG-1, Frames 1-4

Sample Numbers Collected: N/A

ECOLOGICAL EVALUATION

LOCATION: Main Bay SITE: South of Main Bay OBSERVER: Greg Chaney

LOCATION PREFIX: MBA SEG. NO.: 9 LENGTH: 2400 (M)

DATE: May 126/89 TIME (HHMM): 8:15 AM TIDE HT.: ~ 1.5 (M)

OILED ZONE: Splash High Medium Low

SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud

LIVE BIOTA

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

The bedrock outcrops have lush beds of fucus. Heavy oiling in some regions. Some are turning brown & defoliating.

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

Mussels get more concentrated toward southern portion of section. Little mussel mortality observed in oiled areas.

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

Sparse and discontinuous but those in oiled zone reacted to touch in oiled zone.

Littorina

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

Common on unoiled fucus.

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

Very few limpets observed.

OTHER OBSERVATIONS: Thick school of small fish offshore 3 to 6 cm.

Cleanup access may be difficult due to rocks off shore

CLEANUP PRECAUTIONS: Recommend hand removal of oiled fucus patches and tar balls. Wash local areas of heavy oiling at mid to high tide.

MAMMALS: Otters 5 Harbor Seals — Sea Lions — Whales —
Other Mink

BIRDS: 1 seagull, BARNABAT

GENERAL OBSERVATIONS: Some areas are moderate to heavily oiled but these patches are localized and too small to map. Strongly recommend scouting of local area to be conducted by cleanup crew.

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 5-26-89 Location Main Bay Site _____

Location Prefix ~~MA~~ MA Segment # 9 Length 2,400 m.

Survey Method:

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

Ground X (G - indicate on map)

Known cultural resources (AHRS #) _____ Data Source _____

Oil conditions/beach visibility light to medium oil cover, noncontinuous.

Width of beach zone surveyed 5-35 m Tree fringe surveyed 10 m.

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 1/2 shoreline is rock outcrop & 1/2 is cobble beach w/ slight slope.

Fresh Water Sources Some streams & seeps

Sea Exposure Open to the North

Access/Safety poor access due to rocky beaches

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) ANDREFSKY

Time survey started 8:15 AM Time survey ended 12:40 PM

Cultural resource considerations/restraints:

If unidentified cultural resources are discovered during cleanup

contact Exxon archaeologists immediately.

ACE 6331734
-7/5/ACAF

extra copies

ADF&G MULTI-ASSESSMENT DATA FORM

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

2 REGION: PWS KP,CI K,AP

METHOD: Aerial Ground Boat

3 DATE: 4/26/90

15 HIGH TIDE TIMES: 1526

21 TEAM RECORDER: Tom Crowe

4 START TIME: 1045

16 HIGH TIDE HTS: +11.2 FT

22 OBSERVERS: Mike Wiemer

5 STOP TIME: 1110

17 LOW TIDE TIMES: 0901

23 AGENCY: ADF&G ANAD SEAT

6 SEGMENT #: MA009

18 LOW TIDE HTS: -36 F

24 PHOTOS TAKEN: Y N

7 STATION #:

19 TIDE HT AT SURVEY: 0

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 Loren

13 LOCATION: BETWEEN MAIN BAY + Foul Bay

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			(SEE MAPS)					
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: V. High Moderate Low

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

36 CATALOGED ANAD. FISH SREAM? Y N

37 CATALOG #: 226-20-15044

38 STREAM NAME: 1

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

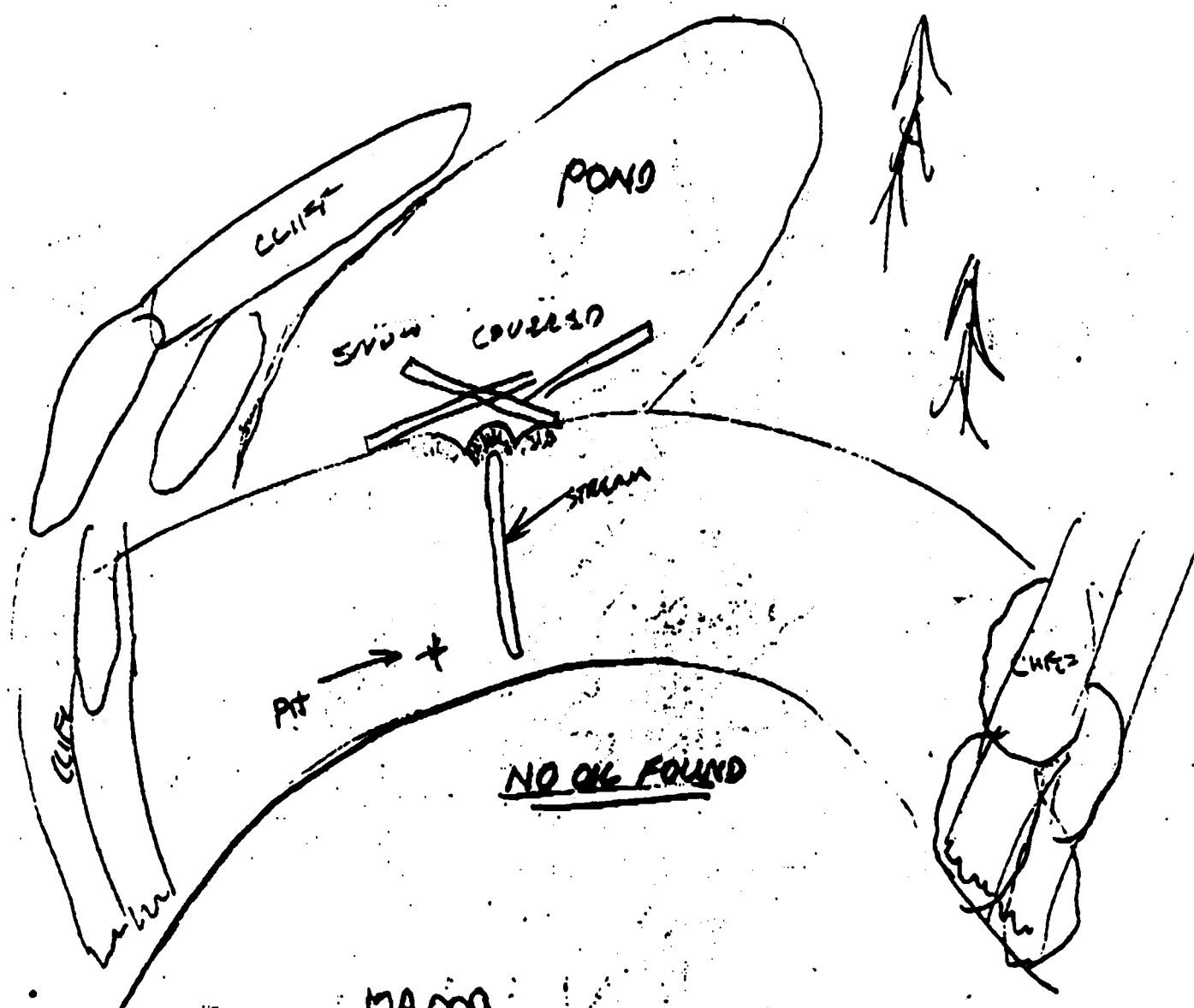
44 ANADROMOUS FISH OBSERVATION

Species Aerial Ground

COMMENTS: NO OIL AT THIS BEACH

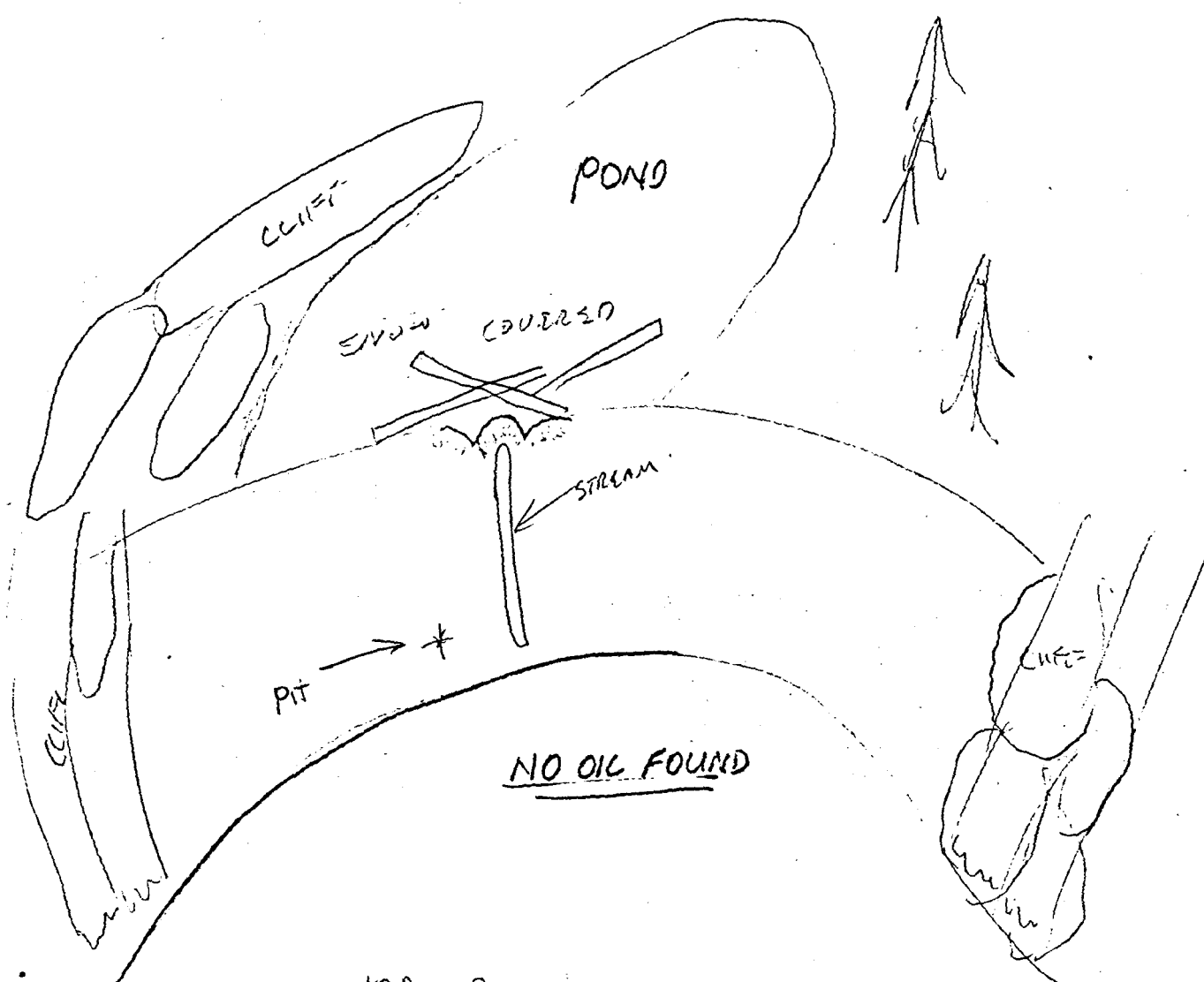
NO TREATMENT

7/42



MA 009
226-20-15044
4/26/90

7/42



MA 009
226-20-15044
4/26/90

ANA MOUS FISH STREAM EVALUAT

SEGMENT ST/ MA-09 STREAM NO: 226-20-15044 DATE 4/26/90

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)

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

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

6Y Recreation: Special use destination

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 within Subdivision A (1 of 1).

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: _____ DATE: _____

Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

X No Treatment Recommended

_____ Treatment Recommended

_____ Manual Pickup

_____ Bioremediation

_____ Tarmat Removal

_____ Snare/Absorbent Booms

_____ Oil Snares (pom poms)

_____ Absorbents (pads, rolls, etc)

_____ Spot Washing: _____ Wands

_____ Beach Cleaner

_____ Other (see comments)

COMMENTS: _____

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____

EXXON _____

NOAA _____

USCG _____

FOSC: _____ DATE: _____

5/42

FIELD SHORELINE COMMENT SHEET

SEGMENT ST MA 009 SUBDIVISION: 15044 DATE 1/26/90

USCG

NAME CWO MC MALIN SIGNATURE [Signature]

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

ADEC

NAME TOM CROWE SIGNATURE [Signature]

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

LAND MANAGER

NAME _____ SIGNATURE _____

☐ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

APR-25-1990 20:06 FROM EMAN AND GORDON

BOAT TEAM P. 39

9142

SEGMENT ST/ MA009

STREAM 226+20-15044

DATE 26 / APR 90

CHECKLIST

- ☐ N Area
- ☐ Approx. Scale
- ☐ Soap/Suds Study
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Ext. HAZARD
- ☐ SST
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ PO Location(s)
- ☐ Photo Location(s)

LEGEND

1 Δ

PO - No Subsurface Oil

2 Δ

PO - Subsurface Oil

CT/C

Controlled Distribution

CT/D

Broken Distribution

CT/E

Patchy Distribution

CT/F

Spotted Distribution

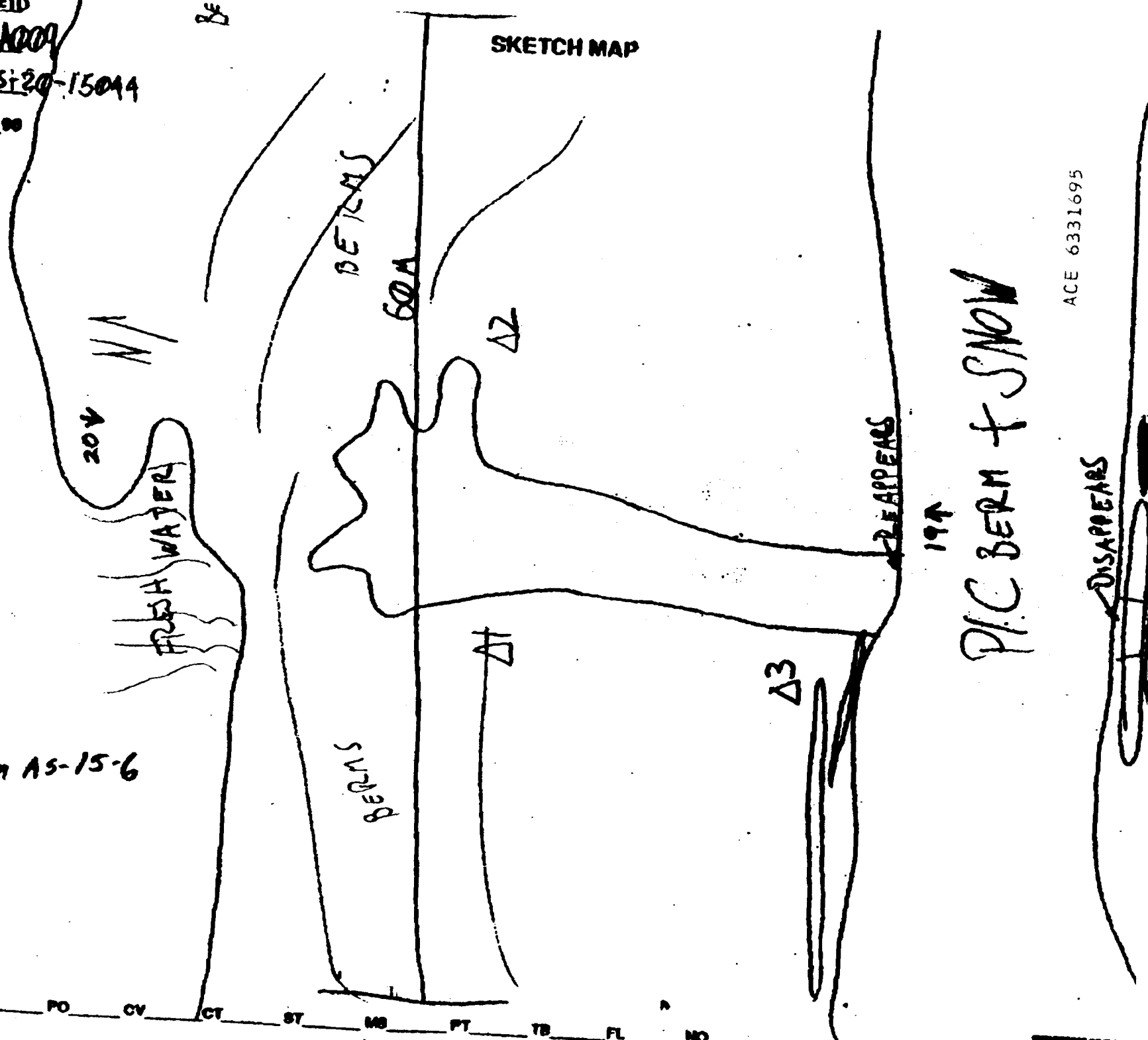
eee
Old Vegetation

1 →

Photo location, direction,
and number

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

SKETCH MAP



PIC BERN + SNOW

ACE 6331695

12/42

Segment MA 009

Stream 226-20-15044

Ecological Summary

4/26/90

Michael Fawcett

This stream enters a high-energy pebble/
gravel beach. At present the stream
emerges from the base of a 15 ft high
berm and flows only about 20 m before
sinking into the pebbles again (at a minus tide).
Since the beach sediments are highly mobile,
there is no evident macro-biota.

No oil was found. No cleanup is needed.

M Fawcett

ECOLOGICAL MAP

MA-009-A (1 of 1)

1A, 1B

1E, 1L



6/42

ADPAC MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: 22 1 05 TS AVS SCM MMB PTA 2 REGION: PAC 1P,C1 KAP

METHOD: Aerial Ground Boat

3 DATE: 4/26/90 15 HIGH TIDE TIMES: 1526 21 TEAM RECORDER: Tom Crou

4 START TIME: 1045 16 HIGH TIDE HTS: +152 FT 22 OBSERVERS: MKE WILSON

5 STOP TIME: 1100 17 LOW TIDE TIMES: 0901 23 AGENCY: ADPAC AWARD SCAT

6 SEGMENT #: MAP 18 LOW TIDE HTS: -36 FT 24 PHOTOS TAKEN: Y 0

7 STATION #: 0 19 TIDE HT AT SURVEY: 0 Roll #: 0 Frame: 0

8 K-UNIT: 0 20 VIDEO TAKEN: Y 0 TAPES: 0

9 STAT AREA: 0 21 USGS GAGE: 0 Starts: 0 Ends: 0

10 LAT: 0 22 LONG: 0 23 SAMPLE TAKEN: Y 0 0

11 SOURCE: Map Loran 24 OIL: 0

12 LOCATION: BETWEEN MAIN BAY + FINE BAY 25 Seafloor: 0

13 DESCRIPTION: 0 26 Biological: 0

27 EXTENT OF OIL: 0 27 Water: 0

28 SURFACE COVERAGE: 0 28 CATALOGED MAR. FISH SIGHT: Y N

29 SURFACE THICKNESS: (SEE MAPS) 29 CATALOG #: 226-20-15044

30 PENETRATION: 0 30 STREAM NAME: 0

31 OVERALL OIL IMPACT: 0 VL L N N 31 OIL IN STREAM BED: Y N

32 OIL TYPE: Poos Mucos Tar Asphalt Sludge Seal 32 OIL ON STREAM BANK: Y N

33 OILED DEBRIS: Y 0 33 OIL ON BEACH ADJACENT TO MOUTH: Y N

34 SHORELINE TYPE: Headland Low-lying Beach Beach Cove 34 OIL WITHIN 1 MILE OF STREAM: Y N

35 WAVE EXPOSURE: High Moderate Low 35 Where: 0

36 SUBSTRATE TYPE: Bedrock Shoulder Cobble 36 AMBUSHOUS FISH PRESENT? Y N

37 Gravel: X Sand: 0 Mud/silt: 0 37 AMBUSHOUS FISH OBSERVATION

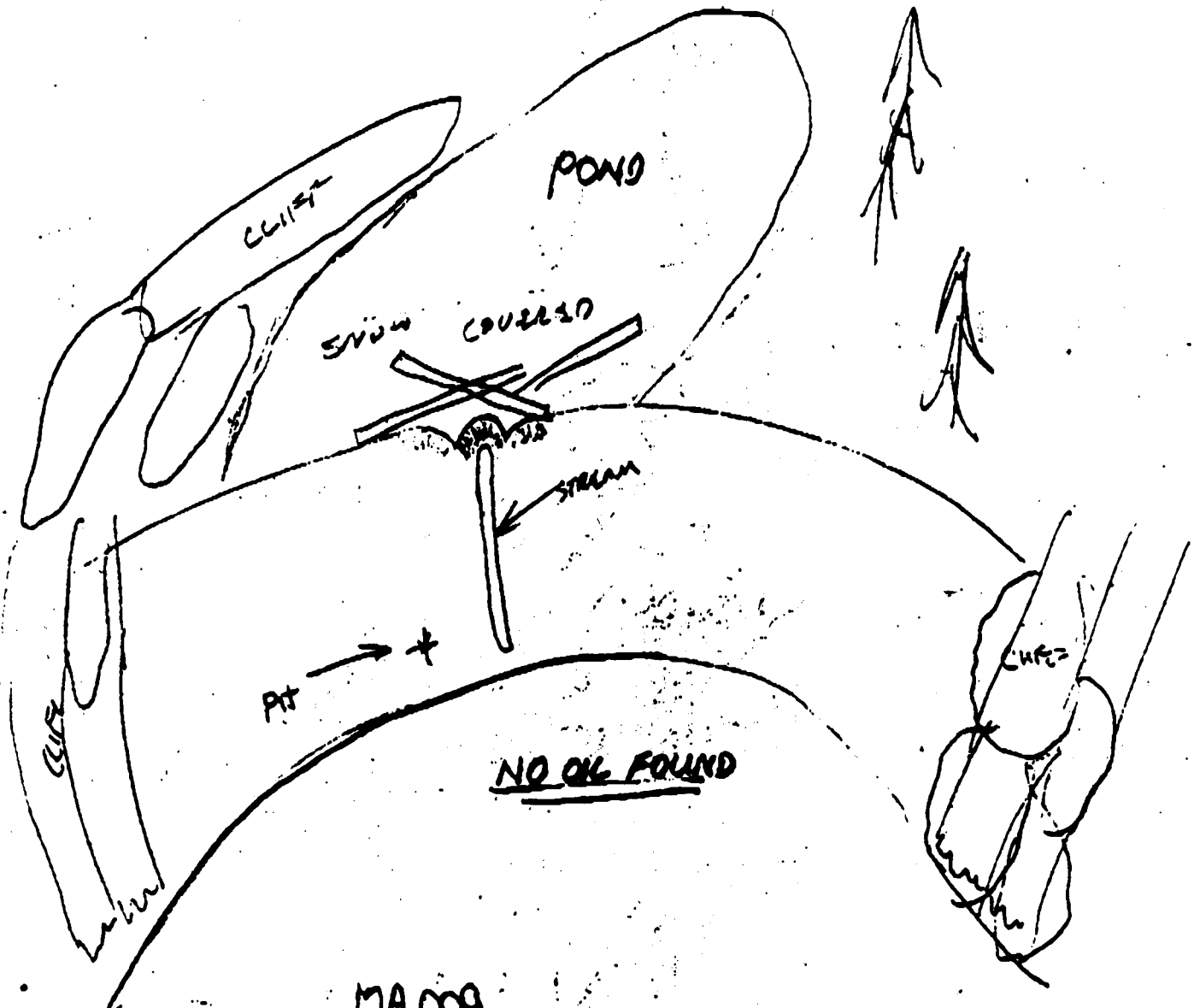
38 Species: 0 Aerial: 0 Ground: 0

39 NO OIL AT THIS BEACH

40 NO TREATMENT

41 I agree M&T Fournier

7/42



MA 009
226-20-15044
4/26/90