

BP-004

ASC: 226-40-16395

Point Counters

ACE 1369516

- 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. survey)
____ '90 ASAP Survey ____ ASAP Rec. ____ ADEC Rec. (Fall)
____ '90 Other Documents _____

ADF&G MULTI-ASSESSMENT DATA FORM

- 1) SURVEY TYPE: BS SS 2) REGION: PWS KP, CI K, AP
- 3) METHOD: Aerial Ground Boat
- 4) DATE: 5/9/91 16) HIGH TIDE TIME: 1932 22) TEAM RECORDER: TOM Crowe
- 5) START TIME: 1650 17) HIGH TIDE HTS: 9.5 23) OBSERVERS: _____
- 6) STOP TIME: 1722 18) LOW TIDE TIMES: 1238 24) AGENCY: ADF+G
- 7) SEGMENT #: BPO04 19) LOW TIDE HTS: 1.6 25) PHOTOS TAKEN: Y (N)
- 8) K-UNIT: _____ 20) TIDE HT AT SURVEY: 7^{FT} ROLL #: _____ FRAMES: _____
- 9) LAT: _____ Ebb Slack Flood Slack 26) VIDEO TAKEN: Y (N)
- 10) LONG: _____ 21) USCG QUAD: _____ TAPE #: _____
- 11) ASC #: 226-20-16395 START: _____ STOP: _____
- 12) STREAM NAME: _____ 27) SAMPLES TAKEN? Y (N)
- 13) LOCATION: Point Contess SAMPLE I.D. _____
- 14) WAVE EXPOSURE: High Moderate Low
- 15) SHORELINE TYPE: Headland Low-lying Rocks Beach
- Cove Lagoon Marsh

28) EXTENT OF OIL

	LENGTH m	WIDTH m	M2	%	THICK cm	PEN cm	OIL TYPE
SITE 1	<u>10</u>	<u>1</u>		<u>70%</u>			<u>AP</u>
SITE 2							
SITE 3							
SITE 4							
SITE 5							

- 29) OVERALL OIL IMPACT: 33) ANADROMOUS FISH PRESENT: Y (N)
- H = >6m band with $\geq 50\%$ oil coverage
- M = >6m band with $\leq 50\%$ oil coverage or $\geq 3m$ to $\leq 6m$ with $\geq 10\%$ oil coverage
- L = <3m band with $> 10\%$ oil coverage
- VL = $\leq 10\%$ oil coverage regardless of band width
- N = No oil observed
- 30) OIL IN STREAMBED: Y (N) 34) WILDLIFE OBSERVATION
- 31) OIL ON BEACH ADJACENT TO MOUTH: Y (N)
- 32) SUBSTRATE TYPE (PERCENT):
- Bedrock _____ Boulder 40% Gravel 60% Sand _____ Cobble _____ Mud/Silt _____
- Species _____ Number _____
- sea otter 1

- 35) COMMENTS: NIO TREATMENT ONE URG BAG ASPHALT PICKED UP,
PICKUP DONE AT SITE. THIS SITE WAS SURVEYED IN A RUSH
AS WE MISSED THE TIDE (SEE TIME/TIDE) SUGGEST RE-
ASSESSMENT!

SITE #1

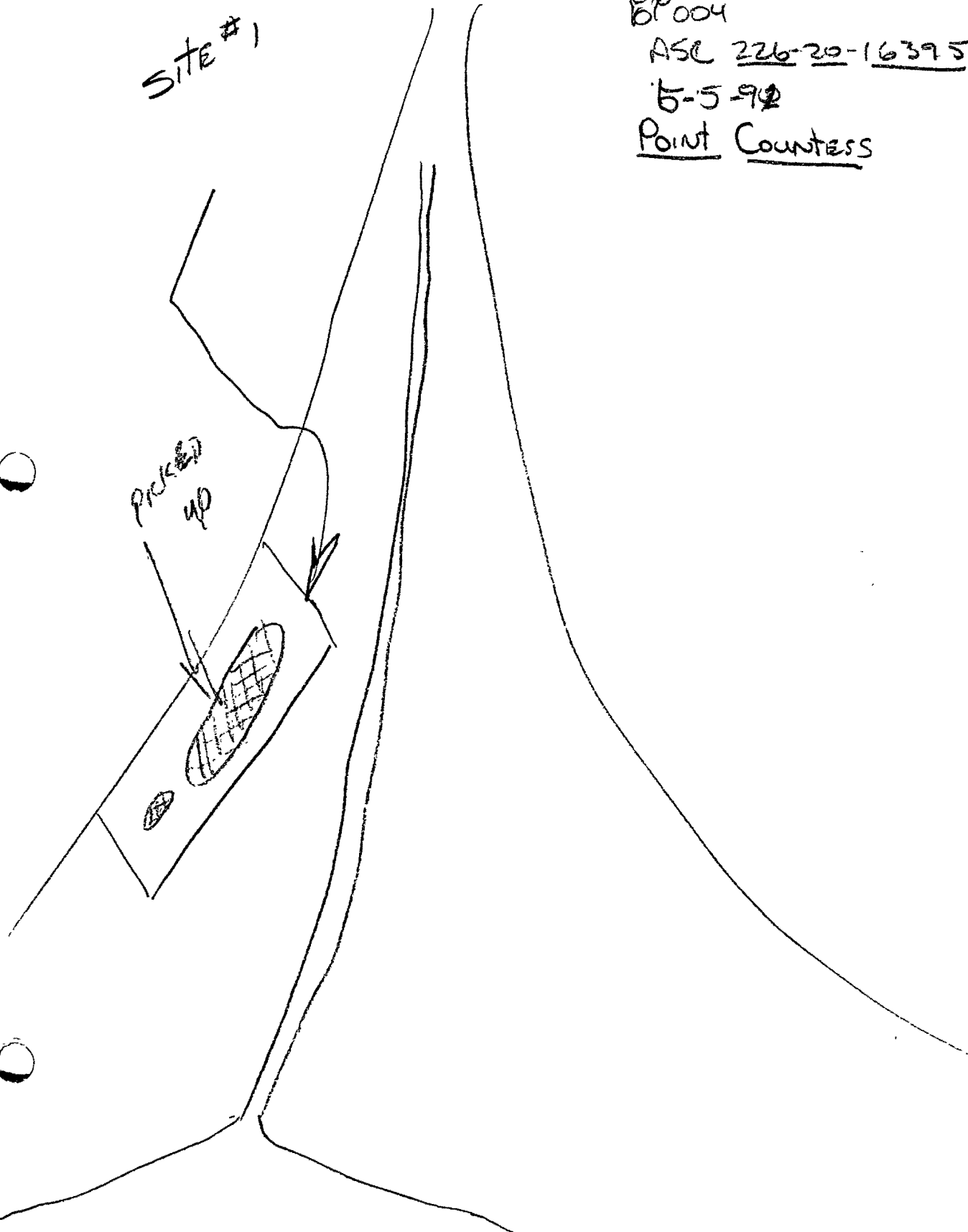
PRICKED
UP

BP004

ASC 226-20-16395

5-5-92

Point Counters





ADFW
Pre-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: 4/13/90

15 HIGH-TIDE TIMES: 1

21 TEAM RECORDER: TOM CROWL

4 START TIME: 1010

16 HIGH TIDE HTS: 1

22 OBSERVERS: GREG CHANEY (EXXON)

5 STOP TIME: 1018

17 LOW TIDE TIMES: 1

23 AGENCY: ADFG

6 SEGMENT #: BP004

18 LOW TIDE HTS: 1

24 PHOTOS TAKEN: Y N

7 STATION #:

19 TIDE HT AT SURVEY:

Roll #: Frames:

8 K-UNIT:

Ebb Slack Flood Slack

25 VIDEO TAKEN: Y N TAPE#:

9 STAT AREA:

20 USCG QUAD:

Start: End:

10 LAT:

11 LONG:

26 SAMPLES TAKEN? Y N Number

12 SOURCE: Map Loran

13 LOCATION: PT. COUNTRESS

14 DESCRIPTION: STREAM

Oil

Sediment

Biological

Water

EXTENT OF OIL

SHORELINE

STREAM

L

M

M²

%

L

M

M²

%

27 SURFACE COVERAGE

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

28 SURFACE THICKNESS

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

29 PENETRATION

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

30 OVERALL OIL IMPACT: N VL L M H

31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain

32 OILED DEBRIS? Y N

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

34 WAVE EXPOSURE: High Moderate Low

35 SUBSTRATE TYPE: Bedrock Boulder Cobble X

Gravel X Sand Mud/silt

36 CATALOGED ANAD. FISH STREAM? Y N

37 CATALOG #: 76395 226 20 16395

38 STREAM NAME:

39 OIL IN STREAM BED? Y N

40 OIL ON STREAM BANKS? Y N

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

42 OIL WITHIN 1 MILE OF STREAM? Y N

Where:

43 ANADROMOUS FISH PRESENT? Y N

44 ANADROMOUS FISH OBSERVATION

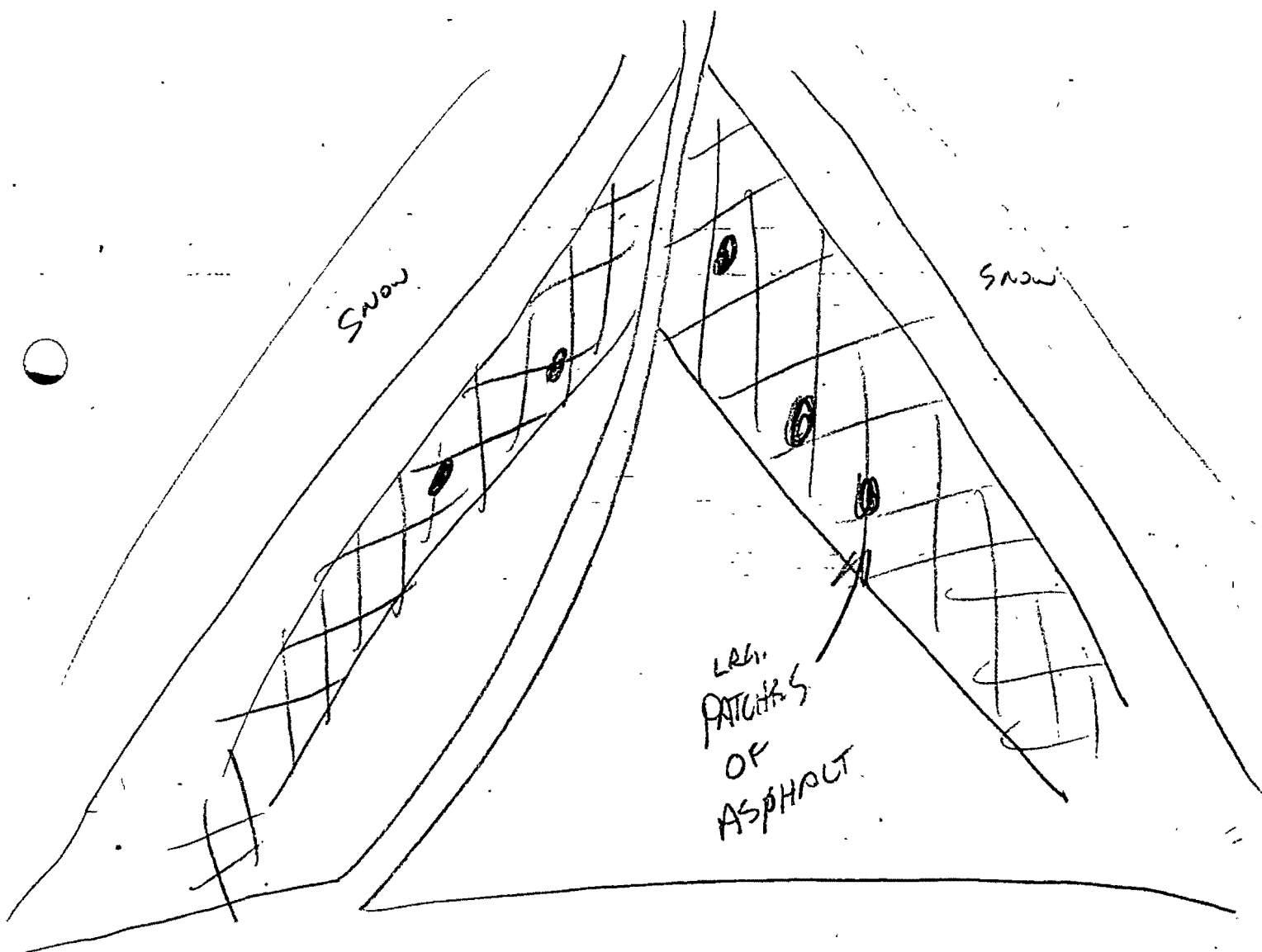
Species Aerial Ground

COMMENTS:

HEAVY TAR/ASPHALT IN UPPER INTERIOR

ACE 6976473 +15

ME(S)	DESCRIPTION
	TWC
226-20-16395	PT COUNTRESS
	RP 004
	4/13/90

46 OIL DISTRIBUTION DIAGRAM

= Sample taken
 = Photo frame # and
 shot direction.

ASC NUMBER:	SEGMENT NUMBER:	YR CATALOGED:
LOCATION:		
STREAM NAME:		LATITUDE:
DIAK K-UNIT: .	LOCAL STREAM #:	LONGITUDE:
USGS QUADRANGLE:		LEGAL:
SHORELINE TYPE:	ALL SEGMENTS:	
WAVE EXPOSURE:		

ASC NUMBER: 226-20-16395
SURVEY TYPE:
METHOD:
DATE: 4/13/90
START TIME:
STOP TIME:

TEAM RECORDER:
OBSERVERS:

AGENCY (IES) :

PHOTOS TAKEN?

Roll #: Frames:

VIDEO TAKEN? Tape Number:

Counter Start:

SAMPLES TAKEN?

SAMPLE I.D. NUMBERS: 1.
4.

2. 3.
5. 6.

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

OVERALL OIL IMPACT: *H*

OIL IN STREAM CHANNEL? *yes*

-SUBSTRATE.

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

Bedrock	Granule X
Boulder	Sand
Cobble	Silt
Pebble	Veget.

SPECIES					
COUNT					

COMMENTS:



A-NADSCAT '90

ADF&G MULTI-ASSESSMENT DATA FORM

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

2 REGION: FWS KP, CI K, AP

METHOD: Aerial Ground Boat

3 DATE: 4/23/90

15 HIGH TIDE TIMES: 0021 / 1257

21 TEAM RECORDER: M. WIEDMER

4 START TIME: 1850

16 HIGH TIDE HTS: 11.5' / 10.5'

22 OBSERVERS: T. CROWE

5 STOP TIME: 1915

17 LOW TIDE TIMES: 0648 / 1855

23 AGENCY: ADF&G

6 SEGMENT #: BP-004

18 LOW TIDE HTS: -0.8' / 0.5'

24 PHOTOS TAKEN: Y (N)

7 STATION #: 226-40-16395 TIDE HT AT SURVEY: 0.5'

Roll #: Frame:

8 K-UNIT: 226-20-16395 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: Point Countess

Sediment

14 DESCRIPTION:

Biological

EXTENT OF OIL

Water

	SHORELINE				STREAM			
	L	W	M ²	%	L	W	M ²	%
27 SURFACE COVERAGE	100	75			75	1		0

36 CATALOGED ANAD. FISH SREAM? Y (N)

	5mm	1mm	2cm	0	0	0
28 SURFACE THICKNESS						

37 CATALOG #: 226-40-16395

	5cm	5cm	10cm	0	0	0
29 PENETRATION						

226-20-16395

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

38 STREAM NAME:

31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain

39 OIL IN STREAM BED? Y (N)

32 OILED DEBRIS? Y N

40 OIL ON STREAM BANKS? Y (N)

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

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

34 WAVE EXPOSURE: High Moderate Low

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

35 SUBSTRATE TYPE: Bedrock Boulder 10 Cobble 45 Gravel 45 Sand Mud/silt

Where:

43 ANADROMOUS FISH PRESENT? Y (N)

ALVIN PRESUMED

44 ANADROMOUS FISH OBSERVATION

Species Aerial Ground

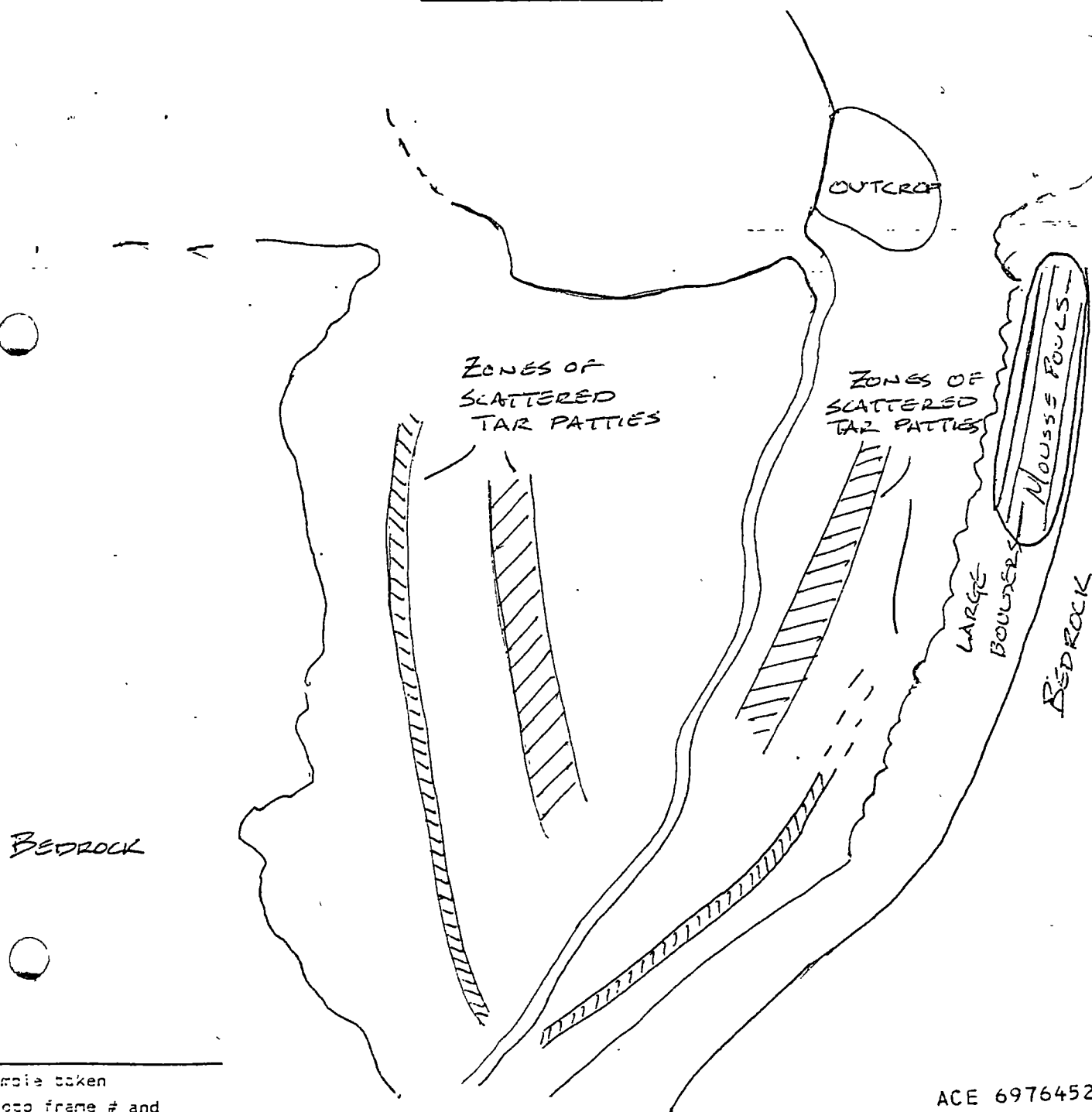
COMMENTS: Tar patties in two rings along mid and upper intertidal zones (in gravels & small cobbles). Some patties are partially to completely buried. Pools of Mousse in large boulders east of channel.

ACE 6976451 +15

DESCRIPTION

RECOMMENDATIONS: MANUAL REMOVAL OF ALL TAR PATTIES.
 MANUAL REMOVAL OF MOUSSE FOULS BETWEEN BULDERS -
 WILL REQUIRE TROWELS ETC.
 REMOVE OILED LOGS.

46 OIL DISTRIBUTION DIAGRAM



YR CATALOGED:

LOCATION:

STREAM NAME:

DIAM K-UNIT: .

USGS QUADRANGLE:

SHORELINE TYPE:

WAVE EXPOSURE:

LOCAL STREAM #:

ALL SEGMENTS:

LATITUDE:

LONGITUDE:

LEGAL:

ASC NUMBER: 226-20-16395

SURVEY TYPE:

METHOD:

DATE: 4/23/90

START TIME:

STOP TIME:

TEAM RECORDER:

OBSERVERS:

AGENCY (IES) :

PHOTOS TAKEN?

Roll #:

Frames:

VIDEO TAKEN?

Tape Number:

Counter Start:

SAMPLES TAKEN?

SAMPLE I.D. NUMBERS: 1.

2.

3.

4.

5.

6.

	LENGTH m	WIDTH m	M2	%	THICK cm	PEN cm	OIL TYPE
SITE 1							FB PJ
SITE 2							FB PJ
SITE 3							MS
SITE 4							
SITE 5							

OVERALL OIL IMPACT:

OIL IN STREAM CHANNEL?

-SUBSTRATE-

OIL ON BEACH WITHIN 50M OF STREAM MOUTH?

SUBSTRATE	
Bedrock	Granule
Boulder	Sand
Cobble	Silt
Pebble	Veget.

SPECIES	PISA				
COUNT					

COMMENTS:

Alevins presumed

Recommendations: Manual removal of all tar patches.

Manual removal of mousepools between boulders.

Will require travels, etc.

Remove oiled logs.



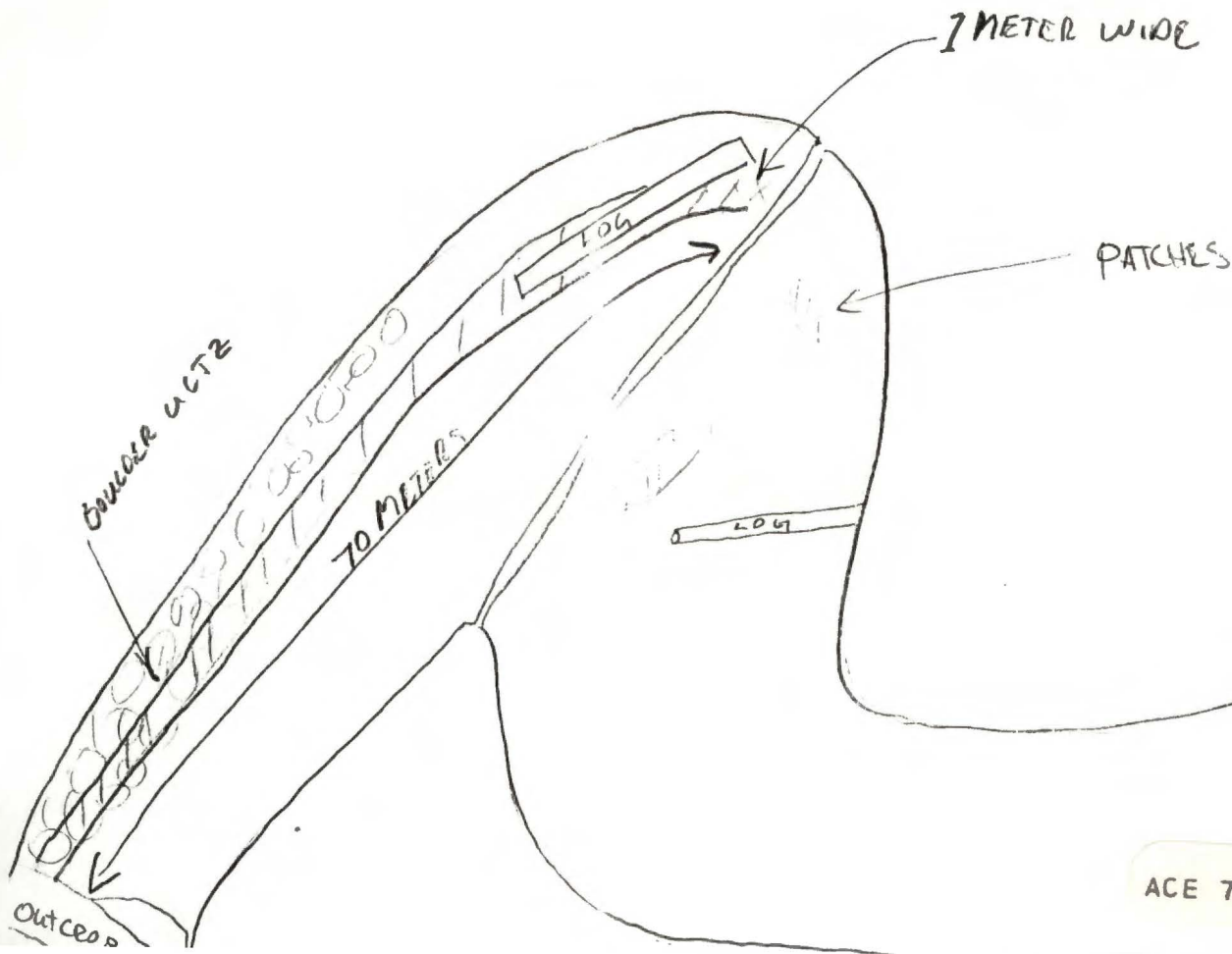
ANADROMOUS FISH STREAMS/OILING CONDITION

PWS

Segment # BPO04 ASC# 226-²⁰~~10~~-16395 Location POINT COUNTES
Date 8/8/90 Recorder/Observer TOM CROWE / AMEE WESEMAN
Oil in streambed N Oil on streambanks Y
Oil within 50m of mouth Y Anadromous Fish present Y
500 PINK SALMON A MOUTH OF STREAM 1 DEAD (P) ON BANK

Description of oil and comments SCATTERED AREAS OF TAR MAT
IN UITE. MOST OF REMAINING TAR OCCURS IN POWDER
ALONG RIGHT BANK UITE. RECOMMEND MANUAL REMOVAL
OF ALL REMAINING TARED/CONTAMINATED GRAVEL. A MORE
COMPLETE JOB OF REMOVING TAR COULD BE ACCOMPLISHED
BY A CREW IN 1/2 DAY

Oil Distribution Diagram



* (Dup)

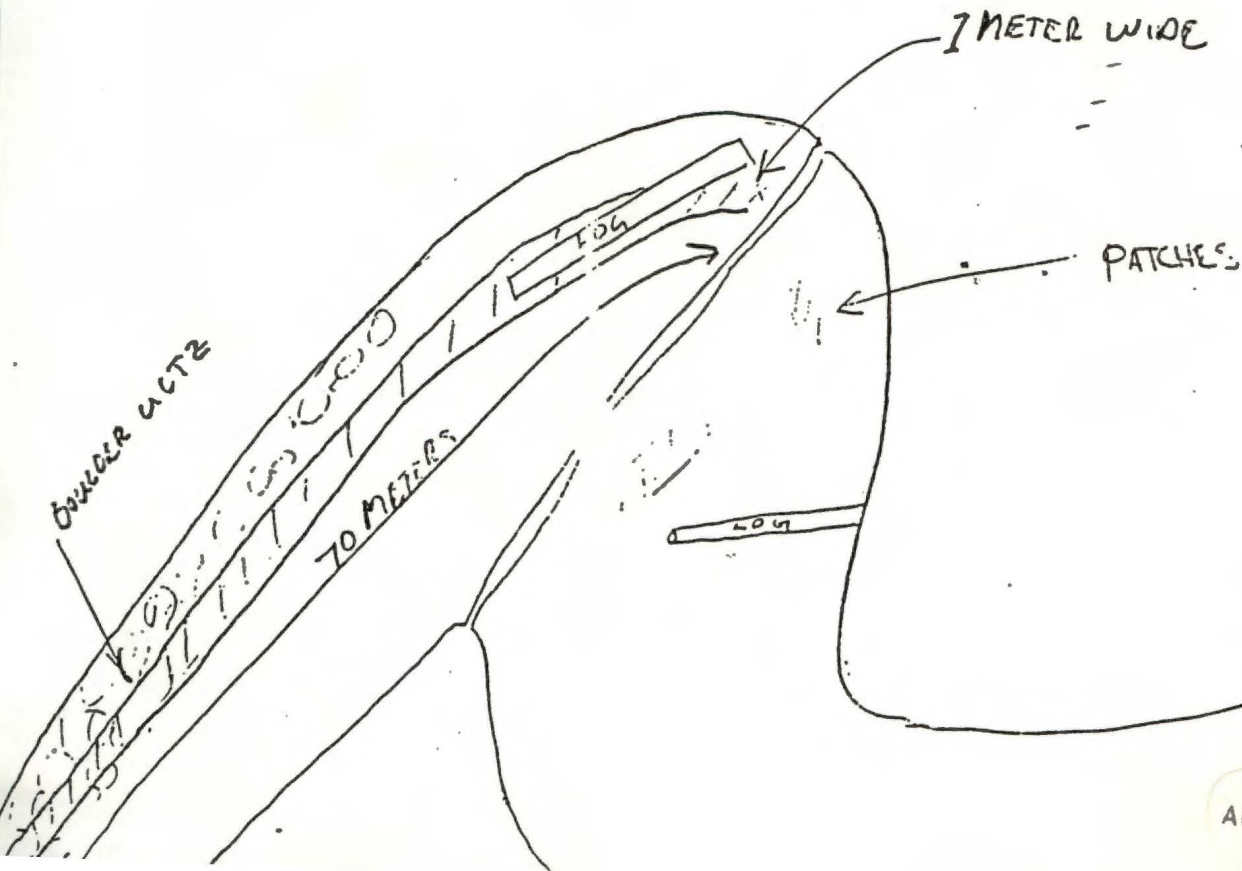
ANADROMOUS FISH STREAMS/OILING CONDITION
PWS

Segment # BP004 ASC# 22610-16395 Location PULLI (OUTLET)
Date 8/8/90 Recorder/Observer TOM CROWE / AMEL WILSON
Oil in streambed N Oil on streambanks Y
Oil within 50m of mouth Y Anadromous Fish present Y

500 PINK SALMON AT MOUTH OF STREAM, 1 DEAD PINK SALMON

Description of oil and comments SCATTERED AREAS OF TAR IN
IN UTZ. MOST OF REMAINING TAR OCCURS IN FOULED
AGEE RIGHT BANK UTZ. RECOMMEND MANUAL REMOVAL
OF ALL REMAINING TAR/CONTAMINATED GRAVEL. A MORE
COMPLETE STUDY REMOVING TAR COULD BE ACCOMPLISHED
BY A CREW IN 1 DAY

Oil Distribution Diagram



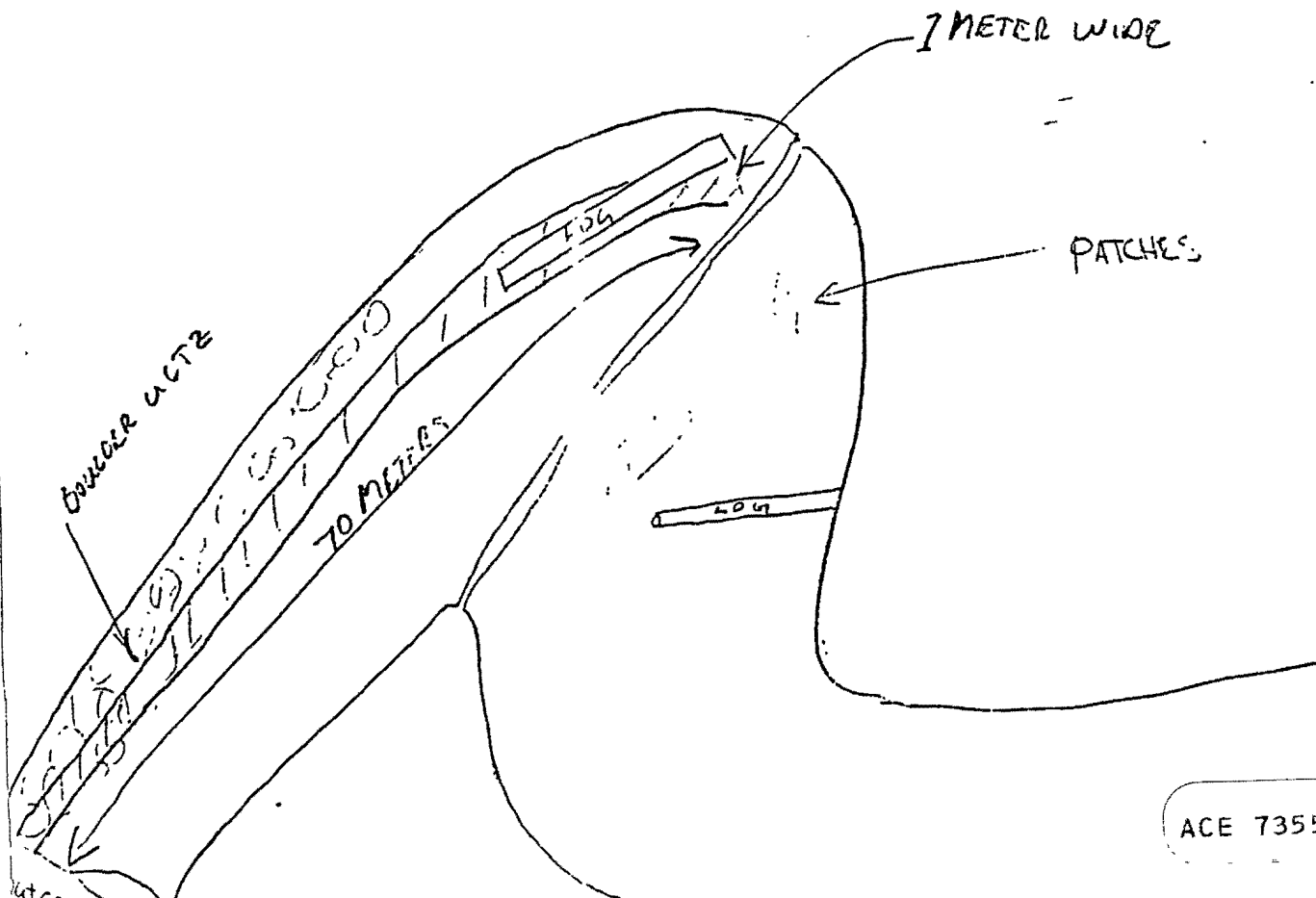
ACE 7355384

ANADROMOUS FISH STREAMS/OILING CONDITION
PWS

Segment # BPO04 ASC# 22610-16395 Location PJHJL (COUNTY)
Date 8/8/90 Recorder/Observer TOM CROWE / AMEL WOLFE
Oil in streambed N Oil on streambanks Y
Oil within 50m of mouth Y Anadromous Fish present Y
500 PINK SALMON A MOUTH OF STREAM, 1 DEAD P. ON BANK

Description of oil and comments SCATTERED AREAS OF TNL IN
IN UTZ. MOST OF REMAINING TAR OILS IN FOUNTAIN
ARE RIGHT BANK UTZ. RECOMMEND MANUAL REMOVAL
OF ALL REMAINING TAR/CONTAMINATED GRAVEL. A MORE
COMPLETE STUDY REMOVING TAR COULD BE ACCOMPLISHED
BY A CREW IN 1/2 DAY

Oil Distribution Diagram

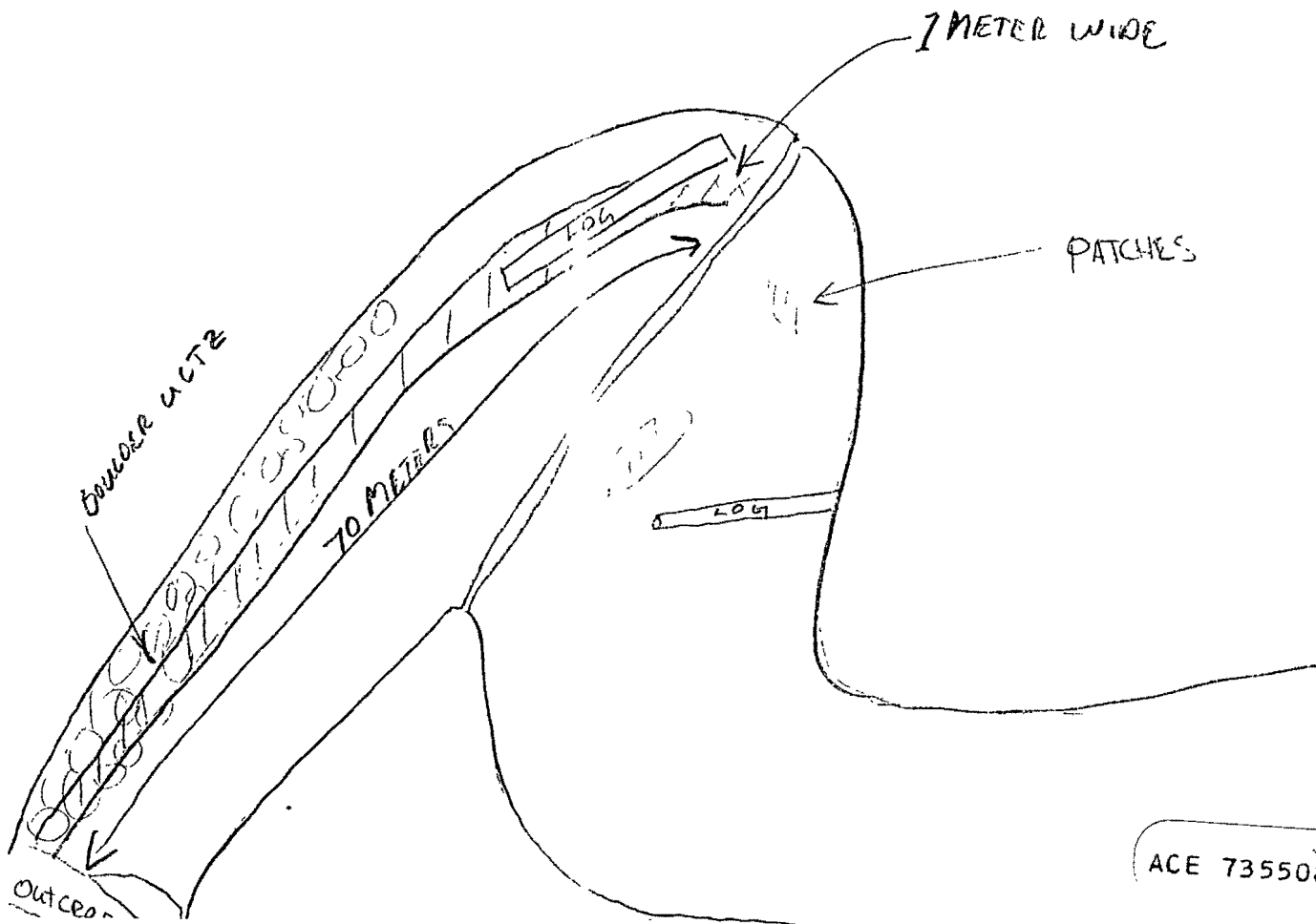


ANADROMOUS FISH STREAMS/OILING CONDITION
PWS

Segment # BPO04 ASC# 226-10-16395 Location POINT COUTESE
Date 8/8/90 Recorder/Observer TOM CROWE / AMEE WESEMAN
Oil in streambed N Oil on streambanks Y
Oil within 50m of mouth Y Anadromous Fish present Y
500 PINK SALMON AT MOUTH OF STREAM 1 DEAD(P) ON BANK

Description of oil and comments SCATTERED AREAS OF TAR MAT
IN CUTZ. MOST OF REMAINING TAR OCCURS IN DOWNCUT
AREA AIGHT BANK CUTZ. RECOMMEND MANUAL REMOVAL
OF ALL REMAINING TARRED/CONTAMINATED GRAVEL. A MORE
COMPLETE JOB OF REMOVING TAR COULD BE ACCOMPLISHED
BY A CREW IN 1/2 DAY

Oil Distribution Diagram



ACE 7355084

CATALOG NUMBER: 2262016395 SEGMENT#: BP004 A LOCATION: MAINLAND, BAINBRIDGE PASSAGE, POINT COUNTESS							
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
04/13/90	PRE-ANADS CAT	1	SURFACE			AP	UITZ - HEAVY AP/TAR, OIL ON STREAM BANKS.
MAD vs. OG: COMMENTS:							

CATALOG NUMBER: 2262016395 SEGMENT#: BP004 A LOCATION: MAINLAND, BAINBRIDGE PASSAGE, POINT COUNTESS							
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
04/23/90	ANADSCAT	1	SURFACE	11-50		PT	TWO ZONES OF SCATTERED TAR PATTIES IN MITZ AND UITZ ON WEST SIDE.
04/23/90	ANADSCAT	2	SURFACE	11-50		PT	EAST SIDE: ZONES OF SCATTERED TAR PATTIES IN MITZ.
04/23/90	ANADSCAT	3	SURFACE			MS	EAST SIDE: MOUSSE POOLS IN UITZ.
04/23/90	ANADSCAT	4	SURFACE			PT	EAST SIDE: TARBAND IN MITZ AND UITZ.
MAD vs. OG: COMMENTS: TAR PATTIES IN TWO RINGS ALONG MID AND UPPER INTERTIDAL ZONES (IN GRAVELS AND SMALL COBBLES). SOME PATTIES ARE PARTIALLY TO COMPLETELY BURIED. POOLS OF MOUSSE IN LARGE BOULDERS EAST OF CHANNEL. OIL ON STREAM BANKS. RECOMMENDATIONS: MANUAL REMOVAL OF ALL TAR PATTIES. MANUAL REMOVAL OF MOUSSE POOLS BETWEEN BOULDERS - REMOVE OILED LOGS.							

CATALOG NUMBER: 2262016395 SEGMENT#: BP004 A LOCATION: MAINLAND, BAINBRIDGE PASSAGE, POINT COUNTESS							
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS

04/23/90	OG'S ANADSCAT	1	SURFACE	11-50		PT MS	WEST SIDE OF STREAM - PATCHY TAR PATTIES AND MOUSSE THROUGH MITZ AND UITZ.
04/23/90	OG'S ANADSCAT	2	2 x 20 SURFACE	11-50	5	PT MS	EAST SIDE OF STREAM - BROKEN AND PATCHY TAR PATTIES AND MS IN UITZ' AND MITZ. (DIMENSIONS FROM OFN).
04/23/90	OG'S ANADSCAT	3	3 x 20 SURFACE	11-50	5	TB MS	EAST SIDE - MOUSSE AND TAR BALLS BETWEEN LARGE BOULDERS. PATCHY DISTRIBUTION.
04/23/90	OG'S ANADSCAT	4	1 x 1.5 SUBSURF		10	OR 3-10	WEST SIDE OF STREAM (LABELED B ON SKETCH) - PIT #1 - OILED INTERVAL OF 3-10CM; 5 PITS DUG ALONG STREAM IN THE UITZ - OIL IN ONE.

MAD vs. OG:
COMMENTS:

CATALOG NUMBER: 2262016395 SEGMENT#: BP004 A LOCATION: MAINLAND, BAINBRIDGE PASSAGE, POINT COUNTESS

DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
08/08/90	PRE-ASAP	1	1 x 70 SURFACE			AP	EAST BANK: PER SKETCH, BAND PARALLELS STREAM, TOUCHES BANK, EXTENDS INTO BOULDER FIELD.
08/08/90	PRE-ASAP	2	SURFACE	11-50		AP	WEST BANK: PER SKETCH, TWO PATCHES OF SCATTERED TARMAT IN UITZ.

MAD vs. OG:
COMMENTS:

SCATTERED AREAS OF TARMAT IN UITZ. MOST OF REMAINING TAR OCCURS IN BOULDER AREA RIGHT BANK UITZ. RECOMMEND MANUAL REMOVAL OF ALL REMAINING TARED/CONTAMINATED GRAVEL. A MORE COMPLETE JOB OF REMOVING TAR COULD BE ACCOMPLISHED BY A CREW IN HALF A DAY. 500 PINK SALMON AT MOUTH OF STREAM. 1 DEAD PINK ON BANK. OIL OBSERVED ON STREAM BANKS.

CATALOG NUMBER: 2262016395 SEGMENT#: BP004 A LOCATION: MAINLAND, BAINBRIDGE PASSAGE, POINT COUNTESS

DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
05/05/91	MAYSAP	1	1 x 10 SURFACE	70		AP	EAST SIDE: UITZ.

MAD vs. OG:
COMMENTS:
NO TREATMENT. ONE LARGE BAG ASPHALT PICKED UP, PICK UP DONE AT SITE. THIS SITE WAS SURVEYED IN A RUSH AS WE MISSED THE TIDE (SEE TIME/TIDE) SUGGEST REASSESSMENT!!

CATALOG NUMBER: 2262016395 SEGMENT#: BP004 A LOCATION: MAINLAND, BAINBRIDGE PASSAGE, POINT COUNTESS

DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
07/30/91	POST TREATMENT	A	2 x 5 SURFACE	<10		HSOR	EAST SIDE: UITZ.
07/30/91	POST TREATMENT	B	.5 x .5 SURFACE			TB	EAST SIDE: UITZ.

MAD vs. OG:
COMMENTS:
THE STREAM AREA LOOKS GOOD - A GOOD JOB OF TREATMENT! REMOVED ONE GEOBAG OF OILED SEDIMENTS FROM AREAS A AND B. NO REASSESSMENT RECOMMENDED IN 1992. *SURVEY FOCUSED ON DOCUMENTED OILING TREATED IN 1991.

CATALOG NUMBER: 2262016395							SEGMENT#: BP004 A	LOCATION: MAINLAND, BAINBRIDGE PASSAGE, POINT COUNTESS	SEQ:
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS		
04/13/90	PRE-ANADS CAT	1	SURFACE			AP	<u>UITZ - Heavy AP/tar, oil on stream banks</u>		
MAD vs. OG: COMMENTS: HEAVY TAR/ASPHALT IN UPPER INTERTIDAL ZONE. OIL ON STREAM BANKS. ON BANKS. OIL WITHIN 1 MILE OF STREAM, <i>delete box</i>									

CATALOG NUMBER: 2262016395							SEGMENT#: BP004 A	LOCATION: MAINLAND, BAINBRIDGE PASSAGE, POINT COUNTESS	SEQ:
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS		
04/23/90	ANADSCAT	1	SURFACE	11-50		PT	TWO ZONES OF SCATTERED TAR PATTIES IN MITZ AND UITZ ON WEST SIDE. <u>zones</u>		
04/23/90	ANADSCAT	2	SURFACE	11-50		PT	EAST SIDE: ZONES OF SCATTERED TAR PATTIES IN MITZ.		
04/23/90	ANADSCAT	3	SURFACE			MS	EAST SIDE: MOUSSE POOLS IN UITZ.		
04/23/90	ANADSCAT	4	SURFACE			PT	EAST SIDE: TARBAND IN MITZ AND UITZ.		
MAD vs. OG: <u>-mad does not mention small area of subsurface, otherwise, OK (OG Anadscat)</u> COMMENTS: TAR PATTIES IN TWO RINGS ALONG MID AND UPPER INTERTIDAL ZONES (IN GRAVELS AND SMALL COBBLES). SOME PATTIES ARE PARTIALLY TO COMPLETELY BURIED. POOLS OF MOUSSE IN LARGE BOULDERS EAST OF CHANNEL. OIL ON STREAM BANKS. RECOMMENDATIONS: MANUAL REMOVAL OF ALL TAR PATTIES. MANUAL REMOVAL OF MOUSSE POOLS BETWEEN BOULDERS - REMOVE OILED LOGS. OIL WITHIN 1 MILE OF STREAM. OIL ON BANKS.									

CATALOG NUMBER: 2262016395							SEGMENT#: BP004 A	LOCATION: MAINLAND, BAINBRIDGE PASSAGE, POINT COUNTESS	SEQ:
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS		

04/23/90	OG'S ANADSCAT	1	SURFACE	11-50		PT MS	WEST SIDE OF STREAM - PATCHY TAR PATTIES AND MOUSSE THROUGH MITZ AND UITZ.
04/23/90	OG'S ANADSCAT	2	2 x 20 SURFACE	30 <u>11-50</u>	5	PT MS	EAST SIDE OF STREAM - BROKEN AND PATCHY TAR PATTIES AND MS IN UITZ AND MITZ. (DIMENSIONS FROM OFN).
04/23/90	OG'S ANADSCAT	3	3 x 20 SURFACE	11-50	5	TB MS	EAST SIDE - MOUSSE AND TAR BALLS BETWEEN LARGE BOULDERS. PATCHY DISTRIBUTION.
04/23/90	OG'S ANADSCAT	4	1 x 1.5 SUBSURF E		10	OR <u>3-10</u>	WEST SIDE OF STREAM (LABELED B ON SKETCH) ; PIT #1 - OILED INTERVAL OF 3-10 CM 5 5 PITS DUG ALONG STREAM - OIL IN ONE. <i>in UITZ</i>

MAD vs. OG:
COMMENTS:

delete

CATALOG NUMBER: 2262016395 SEGMENT#: BP004 A LOCATION: MAINLAND, BAINBRIDGE PASSAGE, POINT COUNTESS SEQ:

DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
08/08/90	PRE-ASAP	1	1 x 70 SURFACE			AP	EAST BANK: PER SKETCH, BAND PARALLELS STREAM, TOUCHES BANK, EXTENDS INTO BOULDER FIELD.
08/08/90	PRE-ASAP	2	SURFACE	11-50		AP	WEST BANK: PER SKETCH, TWO PATCHES OF SCATTERED TAR MAT IN UITZ.

MAD vs. OG:
COMMENTS:

SCATTERED AREAS OF TARMAT IN UITZ. MOST OF REMAINING TAR OCCURS IN BOULDER AREA RIGHT BANK UITZ. RECOMMEND MANUAL REMOVAL OF ALL REMAINING ~~TAR~~/CONTAMINATED GRAVEL. A MORE COMPLETE JOB OF REMOVING TAR COULD BE ACCOMPLISHED BY A CREW IN HALF A DAY. 500 PINK SALMON AT MOUTH OF STREAM. 1 DEAD PINK ON BANK. OIL OBSERVED ON STREAM BANKS.

CATALOG NUMBER: 2262016395 SEGMENT#: BP004 A LOCATION: MAINLAND, BAINBRIDGE PASSAGE, POINT COUNTESS SEQ:

DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
05/05/91	MAYSAP	1	1 x 10 SURFACE	70		AP	<u>east side of stream -UITZ</u>

MAD vs. OG:

COMMENTS:

NO TREATMENT. ONE LARGE BAG ASPHALT PICKED UP, PICK UP DONE AT SITE. THIS SITE WAS SURVEYED IN A RUSH AS WE MISSED THE TIDE (SEE TIME/TIDE) SUGGEST REASSESSMENT!!

OG records: east side - Broken AP/HSOR < 10% 0.5 x 20' x 1 x 2, 40% AP. west side - Broken AP/HSOR 60% 0.1 x 0.1
some cover both sides~~Nancy: Disregard OG records. It's on a data entry sheet for OGOL.~~

CATALOG NUMBER: 2262016395

SEGMENT#: BP004 A

LOCATION: MAINLAND, BAINBRIDGE PASSAGE, POINT COUNTESS

SEQ:

DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL (cm)	SITE SPECIFIC COMMENTS
07/30/91	POST TREATMENT	A	2 x 5 <u>SURFACE</u>	<10		HSOR	<u>East side of stream - U1T2</u>
07/30/91	POST TREATMENT	B	.5 x .5 <u>SURFACE</u>			TB	<u>East side of stream - U1T2</u>

MAD vs. OG:

COMMENTS:

THE STREAM AREA LOOKS GOOD - A GOOD JOB OF TREATMENT! REMOVED ONE GEOBAG OF OILED SEDIMENTS FROM AREAS A AND B. NO REASSESSMENT RECOMMENDED IN 1992. *SURVEY FOCUSED ON DOCUMENTED OILING TREATED IN 1991.

RECORDED: *LS*

REC-DATE: 10/25/91

PAGE

CATALOG NUMBER: 22620 16395
STREAM NAME:
LOCATION:

SEGMENT NUMBER: BPO04 A
SHORELINE TYPE:
DATE: 05/05/91

OG vs. MAD: more detailed than MAD.

[illegible]

OG SUPPLEMENTAL INFO TO MAD

RECORDER: Wesemon RED-DATE: 10-2-91

PAGE

CATALOG NUMBER: 226-20-16395

STREAM NAME:

LOCATION: Bainbridge Pass

SEGMENT NUMBER: 13P004

SHORELINE TYPE: Cove

DATE: 4/23/90 TIME:

MAD mentions that some of the tarpatties are buried. OG does not. OG shows subsurface

OG vs. MAD: buried. OG does not, OG shows subsurface

[illegible]

CATALOG NUMBER: 2262016395

STREAM NAME:

LOCATION: MAINLAND, BAINBRIDGE PASSAGE, POINT COUNTESS

SEGMENT NUMBER: BP004 A

SHORELINE TYPE:

DATE: 04/13/90 TIME: BEACH-1018

SITE	WIDTH (m)	LENGTH (m)	AREA (sqm)	PERCENT OIL	THICKNESS (cm)	PENETRATION (cm)	SURFACE SUBSURF	OIL TYPES	COMMENTS
1							SURFACE	AP	

COMMENTS:

HEAVY TAR/ASPHALT IN UPPER INTERTIDAL ZONE.
ON BANKS.

OIL WITHIN 1 MILE OF STREAM,

CATALOG NUMBER: 2262016395

STREAM NAME:

LOCATION: MAINLAND, BAINBRIDGE PASSAGE, POINT COUNTESS

SEGMENT NUMBER: BP004 A

SHORELINE TYPE:

DATE: 04/23/90 TIME: BEACH-1915

SITE	WIDTH (m)	LENGTH (m)	AREA (sqm)	PERCENT OIL	THICKNESS (cm)	PENETRATION (cm)	SURFACE SUBSURF	OIL TYPES	COMMENTS
1				11-50			SURFACE	PT	westside
2				11-50			SURFACE	PT	2 zones of scattered tar patties m+u ITZ
3							SURFACE	MS	East side - zone of scattered tar patties - m+ITZ
4								PT	East side - mousse pools - u+ITZ

COMMENTS:

TAR PATTIES IN TWO RINGS ALONG MID AND UPPER INTERTIDAL ZONES (IN GRAVELS & SMALL COBBLES). SOME PATTIES ARE PARTIALLY TO COMPLETELY BURIED. POOLS OF MOUSSE IN LARGE BOULDERS EAST OF CHANNEL.

RECOMMENDATIONS: MANUAL REMOVAL OF ALL TAR PATTIES. MANUAL REMOVAL OF MOUSSE POOLS BETWEEN BOULDERS - REMOVE OILED LOGS.

OIL WITHIN 1 MILE OF STREAM. OIL ON BANKS.

CATALOG NUMBER: 2262016395

STREAM NAME:

LOCATION: MAINLAND, BAINBRIDGE PASSAGE, POINT COUNTESS

SEGMENT NUMBER: BP004 A

SHORELINE TYPE:

DATE: 05/05/91 TIME: BEACH-1722

SITE	WIDTH (m)	LENGTH (m)	AREA (sqm)	PERCENT OIL	THICKNESS (cm)	PENETRATION (cm)	SURFACE SUBSURF	OIL TYPES	COMMENTS
1	1	10		70			SURFACE	AP	

COMMENTS:

NO TREATMENT. ONE LARGE BAG ASPHALT PICKED UP, PICK UP DONE AT SITE. THIS SITE WAS SURVEYED IN A RUSH AS WE MISSED THE TIDE (SEE TIME/TIDE) SUGGEST REASSESSMENT!!

CATALOG NUMBER: 2262016395

STREAM NAME:

LOCATION: MAINLAND, BAINBRIDGE PASSAGE, POINT COUNTESS

SEGMENT NUMBER: BP004 A

SHORELINE TYPE:

DATE: 07/30/91 TIME: BEACH-1406

SITE	WIDTH (m)	LENGTH (m)	AREA (sqm)	PERCENT OIL	THICKNESS (cm)	PENETRATION (cm)	SURFACE SUBSURF	OIL TYPES	COMMENTS
A B	2 .5	5 .5	10 .25	<10			SURF SURF	HSOR TB	

COMMENTS:

THE STREAM AREA LOOKS GOOD - A GOOD JOB OF TREATMENT! REMOVED ONE GEOBAG OF OILED SEDIMENTS FROM AREAS A AND B. NO REASSESSMENT RECOMMENDED IN 1992. *SURVEY FOCUSED ON DOCUMENTED OILING TREATED IN 1991.

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: 4/23/90

15 HIGH TIDE TIMES: 0021 / 1257

21 TEAM RECORDER: M. WIEDMER

4 START TIME: 1850

16 HIGH TIDE HTS: 11.5' / 10.5'

22 OBSERVERS: T. CROWE

5 STOP TIME: 1915

17 LOW TIDE TIMES: 0648 / 1855

23 AGENCY: ADF&G

6 SEGMENT #: BP-004

18 LOW TIDE HTS: -0.8' / 0.5'

24 PHOTOS TAKEN: Y (N)

7 STATION #: 226-40-16392 TIDE HT AT SURVEY: 0.5'

Roll #: _____ Frame: _____

8 K-UNIT: 226-20-16395 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: POINT COUNTERS

Sediment _____

14 DESCRIPTION: _____

Biological _____

Water _____

EXTENT OF OIL

	SHORELINE				STREAM			
	L	W	M ²	%	L	W	M ²	%
27 SURFACE COVERAGE	100	75			75	1		<u>(O)</u>

36 CATALOGED ANAD. FISH SREAM? (Y) N

37 CATALOG #: 226-40-16392

226-20-16395

38 STREAM NAME: _____

	SURFACE THICKNESS			PENETRATION		
	5mm	1mm	2cm	5cm	5cm	10cm
28 SURFACE THICKNESS	<u>(O)</u>	<u>(O)</u>	<u>(O)</u>	<u>(O)</u>	<u>(O)</u>	<u>(O)</u>
29 PENETRATION	<u>(O)</u>	<u>(O)</u>	<u>(O)</u>	<u>(O)</u>	<u>(O)</u>	<u>(O)</u>

39 OIL IN STREAM BED? Y (N)

40 OIL ON STREAM BANKS? (Y) N

30 OVERALL OIL IMPACT: N VL (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

ALEVIN PRESUMED

34 WAVE EXPOSURE: High Moderate (Low)

44 ANADROMOUS FISH OBSERVATION

35 SUBSTRATE TYPE: Bedrock _____ Boulder 10 Cobble 45
Gravel 45 Sand _____ Mud/silt _____

Species	Aerial	Ground

COMMENTS: TAR PATTIES IN TWO RINGS ALONG MID AND UPPER
INTERTIDAL ZONES (IN GRAVELS & SMALL COBBLES). SOME PATTIES
ARE PARTIALLY TO COMPLETELY BURIED. POOLS OF MOUSSE IN LARGE
BOULDERS EAST OF CHANNEL.

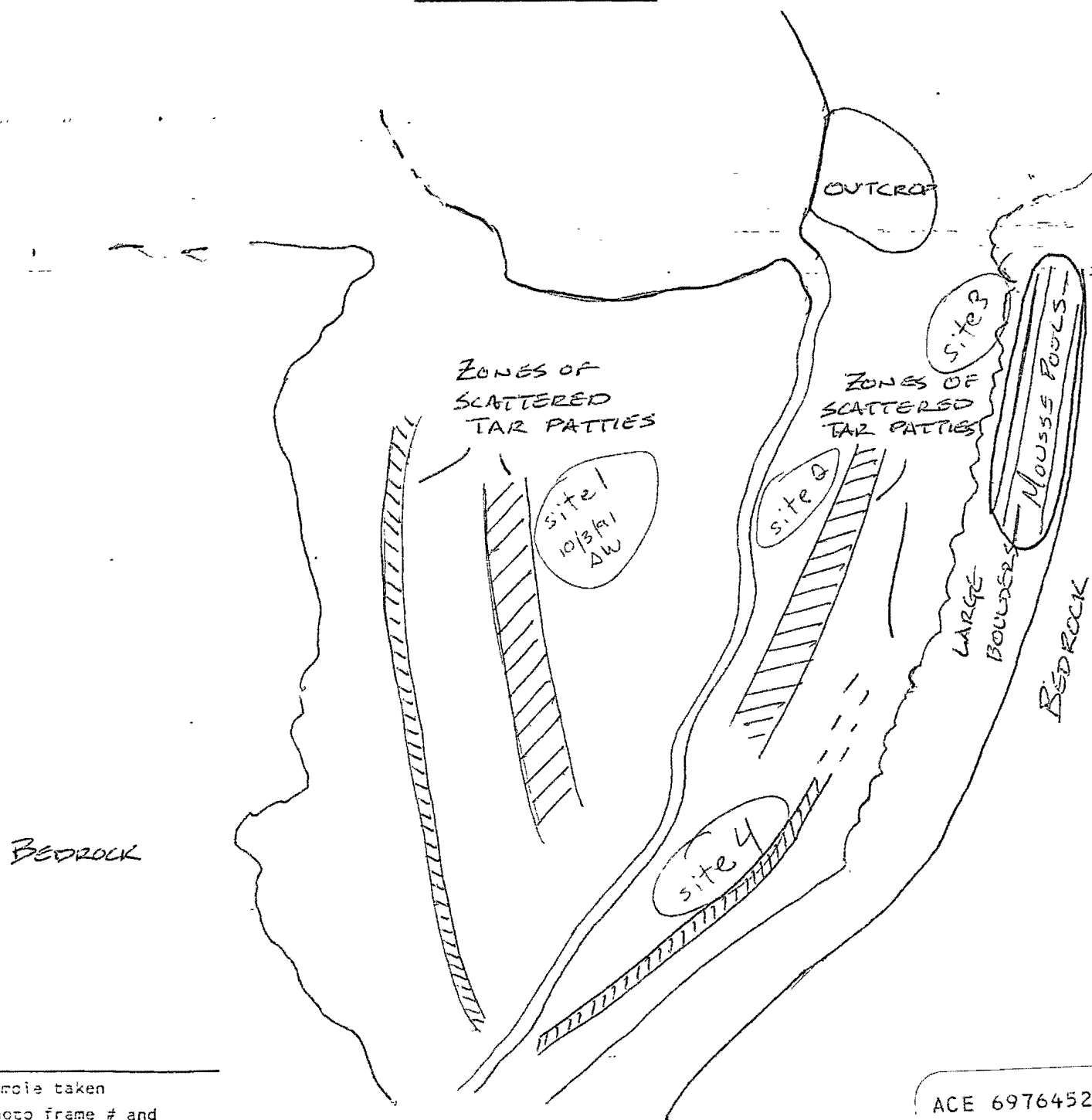
ACE 6976451 + IS

FRAME(S)

DESCRIPTION

RECOMMENDATIONS: MANUAL REMOVAL OF ALL TAR PATTIES.
 MANUAL REMOVAL OF MOUSSE POOLS BETWEEN BOULDERS -
 WILL REQUIRE TROWELS ETC.
 REMOVE OILED LOGS.

46 OIL DISTRIBUTION DIAGRAM



ACE 6976452 -18

OPERATIONS FIELD NOTES

See Back for Instructions

44/53

SEGMENT ID ANAD BP-004
STREAM ID # 226-40-16395
ANNOTATED MAP INCLUDED ☒ Y/N

DATE 4-23-90
NAME GARCIA
TEAM # 15

SURFACE OIL	Quantities in Meters			None	Treatment Recommendation					
					Bioremediation		Tilling		Spot Hot Water	
	Length	Width	Area		Y/N	% Treat	Y/N	% Treat	Y/N	% Treat
Wide Band	VERY	SPORADICALLY		NONE						
Medium Band	STAINED,	LESS THAN								
Narrow Band	1%.									
Very Light										
TOTAL MANDAYS					0		0		0	

SUBSURFACE OIL YES. 3-10 CM IN DEPTH IN AREA 'B' (1M X 1/2M). MANUALLY REMOVE.

Other (Describe)?	

TARMATS	Quantities in Meters			Treatment Rec			# of Bags	Mandays Required	
	Length	Width	Thick(cm)	None	Breakup	Remove		Breakup	Remove
Area #1	VERY	FEW & SCATTERED				✓	4		1
Area #2 30% OF AREA	20	2	5			✓	10		1
Area #3 BROKEN	20	3	5			✓	5		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		NONE						
"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 Snow covering 10 % of the Supratidal Zone?

Wave Exposure H/M/L 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:

MANUALLY REMOVE OILED LOGS, TARMATS, AND MOUSSE AS PER ATTACHED MAP. NO OTHER TREATMENT RECOMMENDED. TOTAL MANDAYS REQUIRED FOR THIS STREAM IS 8.

ACE 6976453 4/5

45/5 OG WILLIAM REID

SEGMENT ST/ B700A

STREAM 226-40-16395

DATE 23 / APR 90

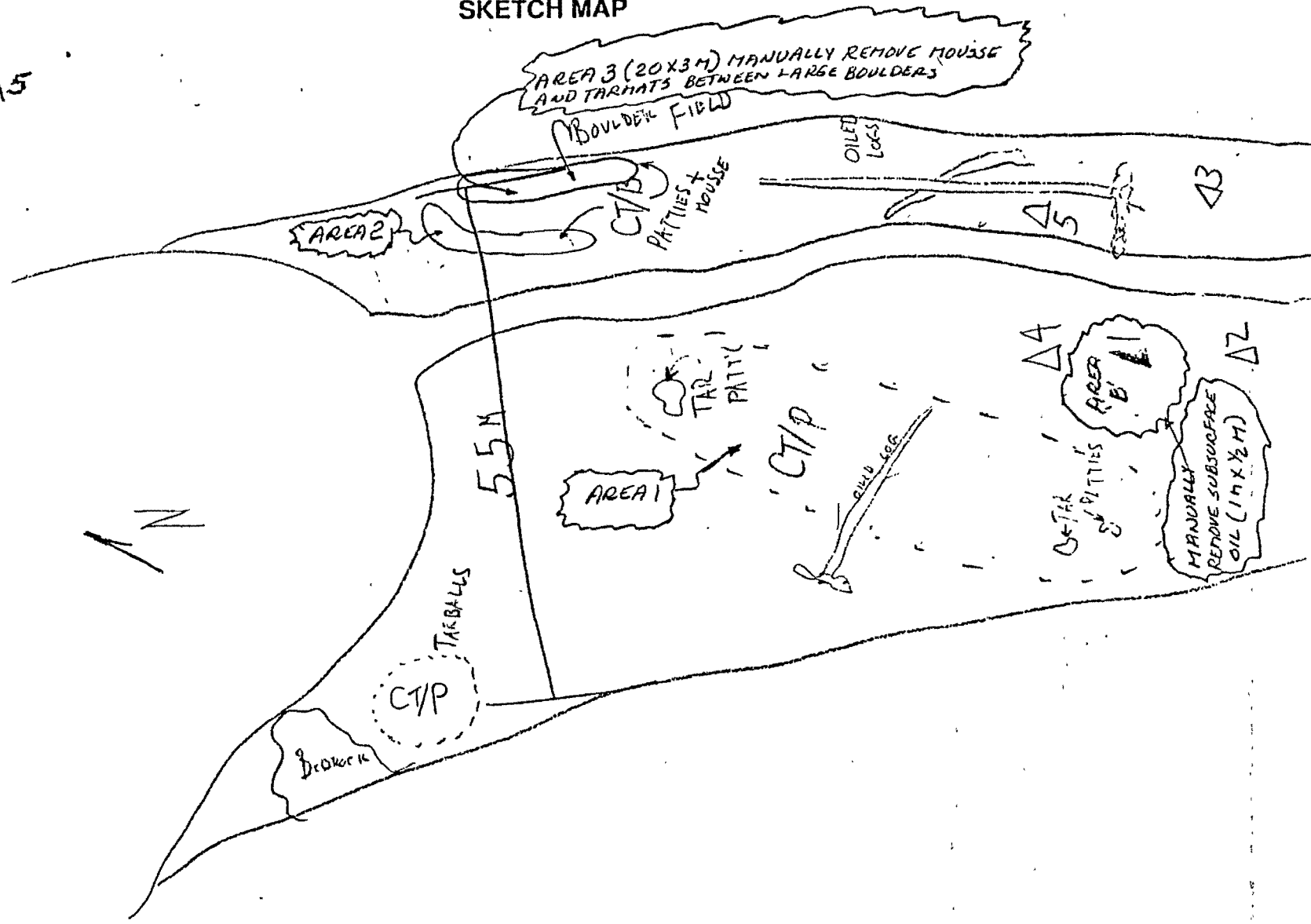
CHECKLIST

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

LEGEND

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

SKETCH MAP



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

ACE 6976454

46/53

FIELD SHORELINE COMMENT SHEET

SEGMENT ST 1 BP 004 SUBDIVISION: 16395 DATE 4/23/90

USCG

NAME CWO MC NATION SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

1. MANUAL TREATMENT: REMOVE TAR MATS LEFT+RIGHT

ADEC

NAME ADF+G
NO Team member SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

MANUALLY REMOVE TARMATS BETWEEN LARGE BOULDERS AND
TIDAL BANDS OF SCATTERED TAR PATTIES. TROWELS MAY BE
REQUIRED TO REMOVE TAR/MOUSSE BETWEEN BOULDERS.

LAND MANAGER

NAME NO Team member SIGNATURE _____

☐ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

ACE 6976455

47/53

ADF&G MULTI-ASSESSMENT DATA FORM

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

METHOD: Aerial Ground Boat

3 DATE: 4/23/90 15 HIGH TIDE TIMES: 0021 / 1257 21 TEAM RECORDER: M. WIEDMER

4 START TIME: 1850 16 HIGH TIDE HTS: 11.5' / 10.5' 22 OBSERVERS: T. CROWE

5 STOP TIME: 1915 17 LOW TIDE TIMES: 0648 / 1855 23 AGENCY: ADF&G

6 SEGMENT #: BP-004 18 LOW TIDE HTS: -0.8' / 0.5' 24 PHOTOS TAKEN: Y N

7 STATION #: 226-40-16395 TIDE HT AT SURVEY: 0.5' Roll #: _____ Frame: _____

8 K-UNIT: 226-20-16395 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: POINT COUNTERS Sediment _____

14 DESCRIPTION: _____ Biological _____

Water _____

EXTENT OF OIL

	SHORELINE				STREAM			
	L	M	H ²	%	L	M	H ²	%
27 SURFACE COVERAGE	100	75			75	1		0
28 SURFACE THICKNESS	5mm	1mm	2cm		0	0	0	
29 PENETRATION	5cm	5cm	10cm		0	0	0	
30 OVERALL OIL IMPACT:	N	VL	L	<u>M</u>	H			
31 OIL TYPE:	Pooled	Mousse	<u>Tar</u>	Asphalt	Sticky	Stain		
32 OILED DEBRIS?	Y	N						
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>10</u>	Cobble	<u>45</u>			
	Gravel	<u>45</u>	Sand		Mud/silt			

36 CATALOGED ANAD. FISH STREAM? Y N

37 CATALOG #: 226-40-16395

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
ALEVIN PRESUMED

44 ANADROMOUS FISH OBSERVATION

Species	Aerial	Ground

COMMENTS: TAR PATTIES IN TWO RINGS ALONG MID AND UPPER INTERTIDAL ZONES (IN GRAVELS & SMALL COBBLES). SOME PATTIES ARE PARTIALLY TO COMPLETELY BURIED. POOLS OF MOUSSE IN LARGE BOULDERS EAST OF CHANNEL.

ACE 6976456

FRAME(S)

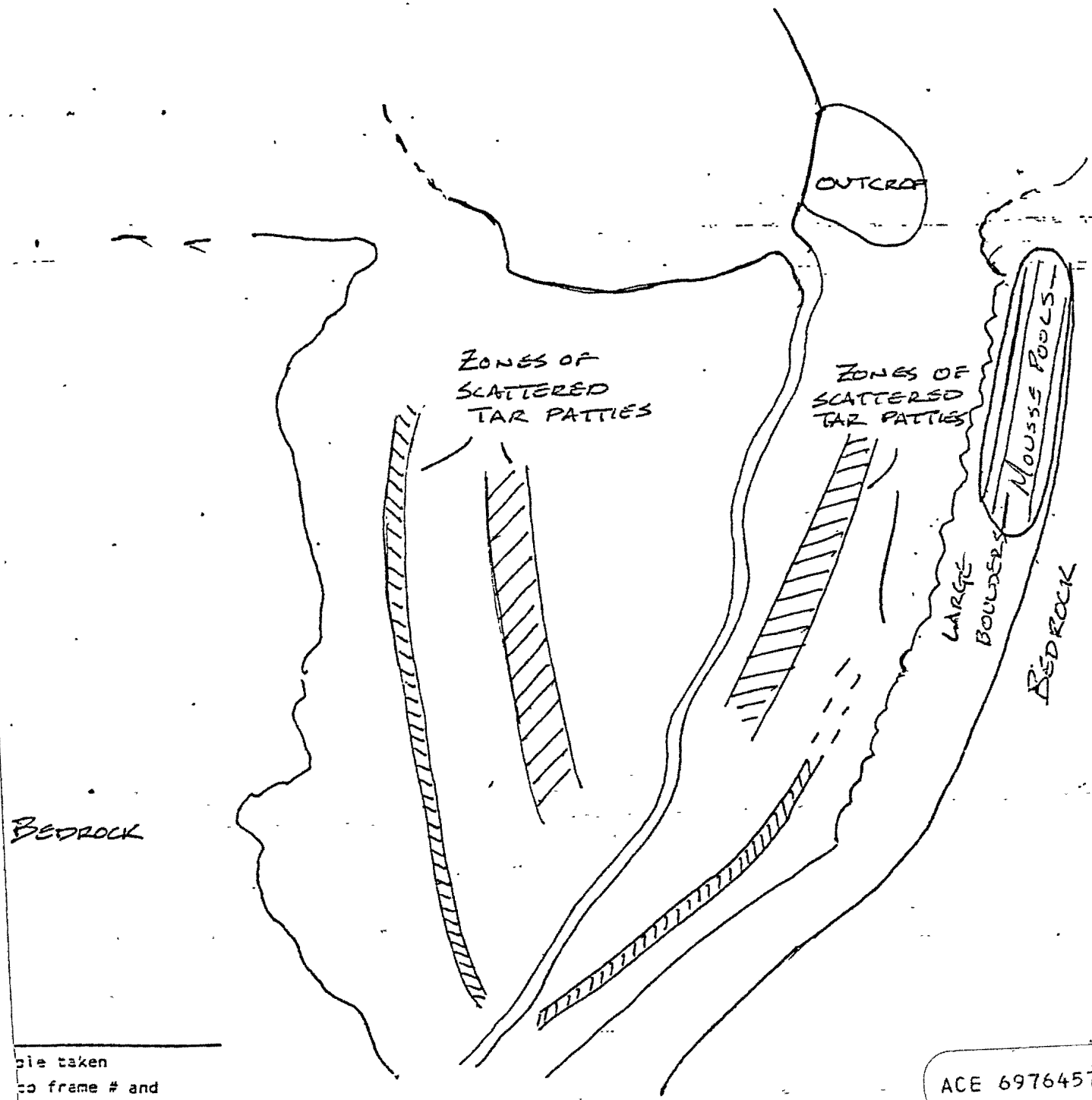
DESCRIPTION

RECOMMENDATIONS: ~~MANUAL~~ REMOVAL OF ALL TAR PATTIES.
MANUAL REMOVAL OF MOUSSE POOLS BETWEEN BOULDERS -
WILL REQUIRE TROWELS ETC.
REMOVE OILED LOGS.

I agree with recommendations.

11/15/84

48 OIL DISTRIBUTION DIAGRAM



Sample taken
to frame # and
direction.

ACE 6976457

OG WILLIAM LEIT USCG McMAHON SEGMENT ST/ BPO04 4/1/55
 BIO MICHAEL FAWCETT LAND REP TOM CROWIE ADFG STREAM 22620-1639T OF
 EXXON CVS GARCIA ADFG MIKE VIEDMER TIME 18:48
 TEAM NO. 15 TIDE LEVEL 0.5 FT DATE 23 / APR / 90
 EST. SUBDIVISION LENGTH: 551 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R 9 % B 1 % C 20 % P 70 % G % S % M % V
 SLOPE: Lang 90 % Hang 10 % Vert % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W m M 35 m N 5 m VL m NO 15

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	C	R	P	S	BR	OR	OL	OF	NO	ICM	CL	UC	SU	U	M	L
ASPHALT																
PAVEMENT																
POOLED																
COVER																
COAT																
STAIN																
MOUSSE																
PATTIES																
TARBALLS																
FILM																
NO OIL																

 PAVEMENT H F S sq. m by

 PATTIES / TARBALLS BA

 NEAR SHORE SHEEN? ☒ NO BR RW SL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

 Did you coll
 DEBRIS
☐ YES ☒ NO

 TYPE

 #BAGS

Photographs:

 Roll No.

 Frames

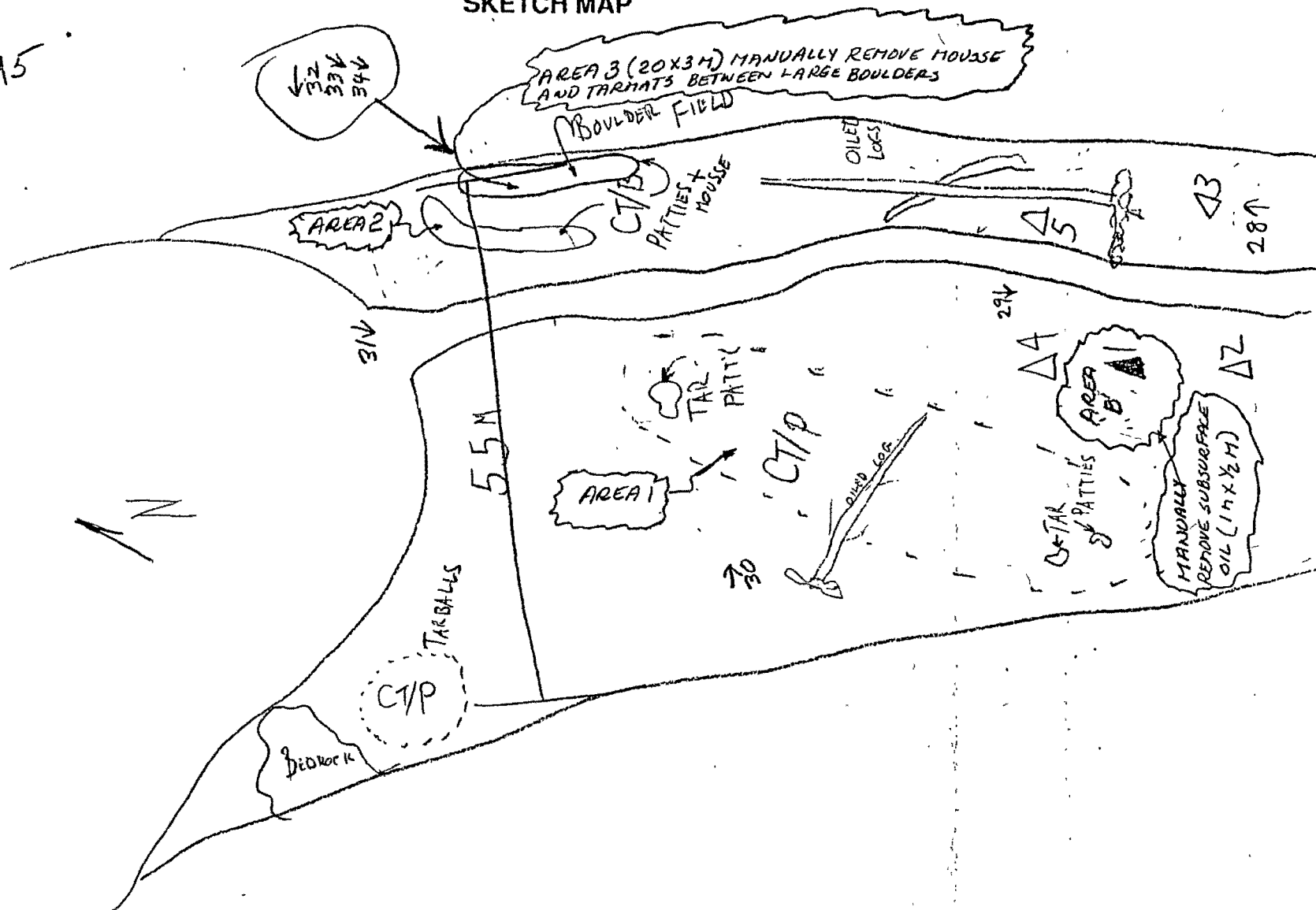
SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM)	BELOW		OIL / FILM COLOR								PIT ZONE				A N A	SHEEN (Y/N)	F	SURFACE SUBSURFA SEDIMENT	
		OP	OR	OL	OF	NO		UO	UC	SR	BR	ORL	FW	GY	SE	URR	TR	LR	SU	U	M					L
1	30		X				3-10		X		X							X						N		P/G/C
2	35					X	.											X						N		P/G/C
3	40					X	.											X						N		P/G
4	35					X	.											X						N		P/G/L
5	20					X	.											X						N		P/G/C
							.																			

COMMENTS

 REVIEWED DATE

ACE 6976458



SSAT DATA ENTRY FORM

GENERAL DATA

226-20-
SEG ID: BP004 SUBDIV: 16395 TEAM: AS-15 SURVEY DATE: 4/23/90
PAVEMENT: CHAR - AREA 0 THICKNESS 0 TARBALLS 0
OILED: LGS MD VEG - TRH - DBR - WAVE EXP: LW - MD X HG -
FAX RCVD: - DT: - AGENCY DISAGREE: -
EST SUBDIV LGTH: 55 OIL CATEGORY: W 0 M 35 N 5 VL 0 NO 15 U 0

SURFACE DATA

SURFACE SEDIMENT: BRK 9 BLD 1 COB 20 PEB 70 GRN 0 SAN 0 MUD 0 VEG 0

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

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

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

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

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

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

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

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

SSAT DATA ENTRY FORM

SUBSURFACE DATA

PAGE 2 OF 2

SEGMENT ID: BP004 SUBDIV: 226-20-16395

PIT # 1 PIT DEPTH 30 OIL CHARACTER 0 OIL INTVAL: FROM 3 TO 10
QUANT: VC OIL CLR: DBL FLM CLR: — ZONE: SU — UI X MI — LI —
SUBSURF SEDIMENT: BRK — BLD — COB X PEB X GRN X SAN — MUD — VEG —

PIT # 2 PIT DEPTH 35 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 X 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 — PEB X GRN X SAN — MUD — VEG —

PIT # 4 PIT DEPTH 35 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 X SAN — MUD — VEG —

PIT # 5 PIT DEPTH 20 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 X 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 BP004
Stream 226-20-16395
Ecological Summary

4/23/90
Michael Fawcett

This small stream enters a sheltered cove via a cobble/gravel/pebble delta, with bedrock at the ends. Patchy dense Fucus occurs along the stream on cobbles and bedrock. Dense barnacles, Fucus, mussels (including recently settled 3-5 mm juveniles), and Littorines (also including new juveniles) occur on bedrock outcrops in MTZ & UTZ. Large old barnacles (Balanus cariosus) are sparsely distributed in LTZ. The sand/gravel beach in LTZ has a surface and infaunal community similar to that at 226-20-16397 (clams, worms, gunnels, etc.). One sea otter watched our activities. Numerous otter holes (from clam digging) were seen in LTZ. About 12 Pycnopodia (sun stars) were observed in an LTZ tidepool on bedrock. Cleanup activities should be conducted with as little disturbance as possible to LTZ area.

M. Fawcett

ANADROMOUS FISH STREAM EVALUATION ADDENDUM

CONSTRAINTS FOR STREAM NO. 226-20-16395

SEGMENT BP-004 SUBDIVISION A

WORK WINDOW

Manual Pickup

CLOSED

ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

1A,1B Salmon Stream

ADF&G catalogued anadromous stream (226-20-16395) is in Subdivision A. No constraint to manual pickup.

5T Bald Eagle Nest

USFWS 6/1/90 map indicates an active nest in Subdivision A. Closed to manual pickup within 400m of active nest.

OTHER ECOLOGICAL CONSIDERATIONS

If eagle nest constraint is removed, other ecological considerations will apply.

SEE SUBDIVISION CONSTRAINT ADDENDUM BP-004A
FOR ADDITIONAL CONSTRAINT INFORMATION.

FOSC

Date

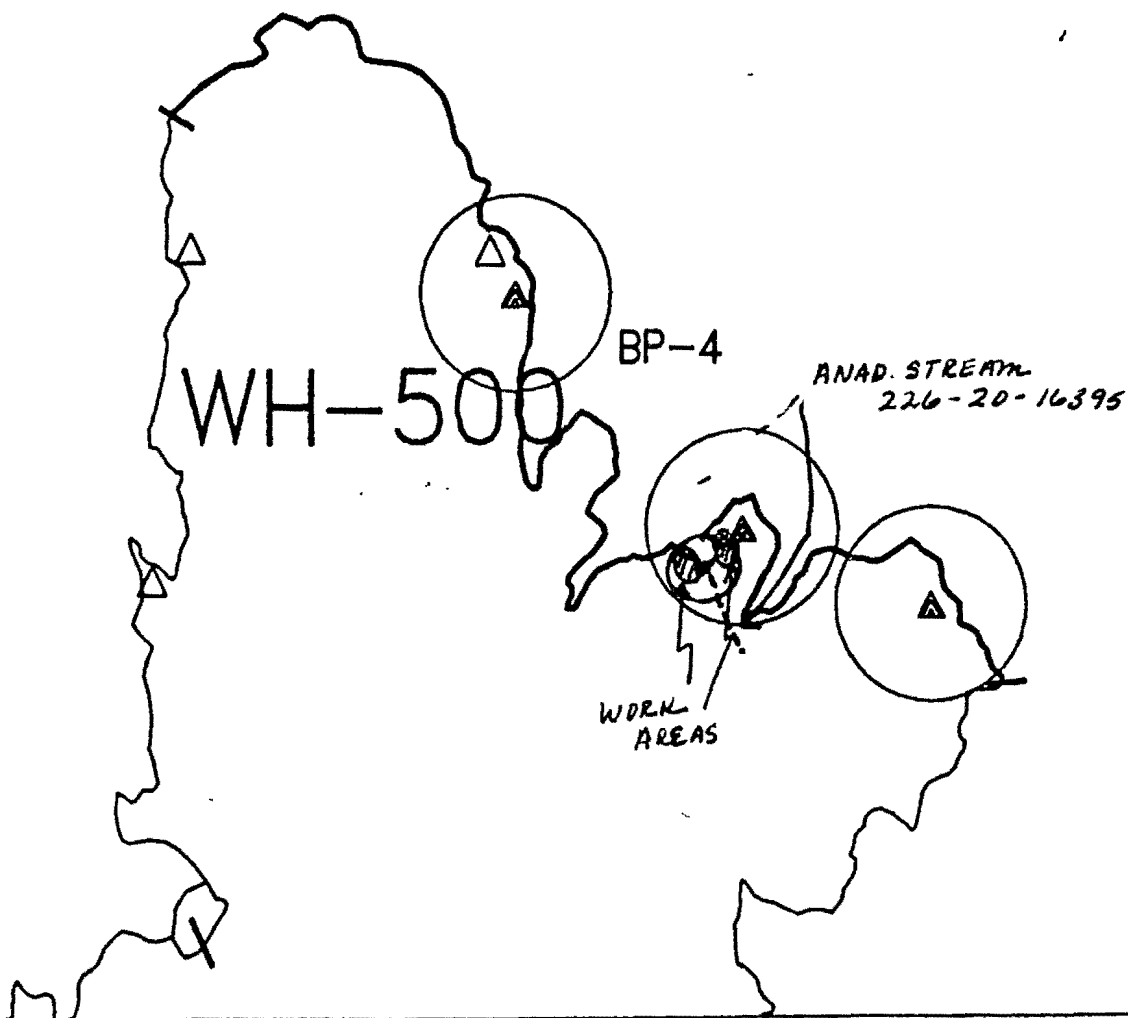
6-14-90

Prepared by

Date

6/16/90

ACE 6976437-1/2/90



Exxon Company, USA
 Map Key: PWS-BP-4
 June 12, 1990

ECOLOGY MAP
 SEGMENT BP-4
 SUBDIVISION A (---of---)
 METERS
 0 100 1619

- ★ Seabird Colony
 - ▲ Active Eagle Nest
 - △ Inactive Eagle Nest
- 1 Inch = 2656 feet

ACE 6976438

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/ BP-04 STREAM NO: 226-20-16395 DATE 4/23/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Four catalogued anadromous streams in BP-04: 226-20-16395, 226-20-16397, 226-20-16392, and 226-20-16388.

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

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

5T-4 All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to uncoiled biota and substrate. 5T - one bald eagle nest is within 400M of stream 226-20-16395. Cleanup activities should be conducted with as little disturbance as possible to the diverse lower tidal area.

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: [Signature] DATE: 5/2/90

Subsurface Oil Observed: Yes X No Maximum Depth 10 cm

RECOMMENDATIONS:

 No Treatment Recommended

X Treatment Recommended

X 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: Recommended treatment includes 1) manual pickup of mousse and tarballs, and 2) bioremediation of area shown on attached sketch map. Work should be conducted between 6/1 to 7/10 based on eagle nest and salmon constraints with approval of USFWS regarding eagle nest.

SEE ADDENDUM dated 6/16/90

TAG COMMENTS: MONITORS TO ASSESS LOGS IN FIELD TO DETERMINE THE SIGNIFICANCE OF THE OIL STAINING.

TAG APPROVAL DATE: 5/7/90

ADEC [Signature]

EXXON [Signature]

NOAA [Signature]

USCG [Signature]

FOSC: [Signature] DATE: 5-18-90

NOTIFY EVE 24 HRS PRIOR TO WORK.

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/ BP-04 STREAM NO: 226-20-16395 DATE 4/23/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Four catalogued anadromous streams in BP-04: 226-20-16395, 226-20-16397, 226-20-16392, and 226-20-16388.

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

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

5T-4 All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to unoiled biota and substrate. 5T - one bald eagle nest is within 400M of stream 226-20-16395. Cleanup activities should be conducted with as little disturbance as possible to the diverse lower tidal area.

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 M. McMan DATE: 5/8/90

Subsurface Oil Observed: Yes X No Maximum Depth 10 cm

RECOMMENDATIONS:

 No Treatment Recommended

 X Treatment Recommended

 X Manual Pickup

 X Bioremediation

 Tarmat Removal

 Snare/Absorbent Booms

 Oil Snares (pom poms)

 Absorbents (pads, rolls, etc)

 Spot Washing: Wands

 Beach Cleaner

 Other (see comments)

COMMENTS: Recommended treatment includes 1) manual pickup of mousse and tarballs, and 2) bioremediation of area shown on attached sketch map. Work should be conducted between 6/1 to 7/10 based on eagle nest and salmon constraints with approval of USFWS regarding eagle nest.

TAG COMMENTS: MONITORS TO ASSESS LOGS IN FIELD TO DETERMINE THE SIGNIFICANCE OF THE OIL STAINING.

TAG APPROVAL DATE: 5/7/90

ADEC Art Weir

EXXON Andy Tate

NOAA Gary Patras

USCG G.A. Fetter

FOSC: W L DATE: 5-18-90

NOTIFY CVE 24 HRS PRIOR TO WORK.

ACE 6976440 +12

Processed
5/7/90 MK

RECEIVED
MAY 03 1990

DEPT. OF
ENVIRONMENTAL CONSERVATION

ANADROMOUS FISH STREAM ASSESSMENT

REGION: PRINCE WILLIAM SOUND

SEGMENT: BP-04

STREAM NO: 226-20-16395

no comment - no bio. due to
limited O/R

see diagram - initials
removed comments +
substituted new ones
on OG sheet also

TAG - manually remove oiled O/R in
vicinity of Pit #1
- assess oiled logs in field
and treat

ACE 6976441

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/ BP-04 STREAM NO: 226-20-16395 DATE 4/23/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Four catalogued anadromous streams in BP-04: 226-20-16395, 226-20-16397, 226-20-16392, and 226-20-16388.

1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
1B Salmon stream mouth - spawning (7/10 to 8/31)
5T-4 All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)
See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to uncoiled biota and substrate. 5T - one bald eagle nest is within 400M of stream 226-20-16395. Cleanup activities should be conducted with as little disturbance as possible to the diverse lower tidal area.

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: _____ DATE: _____

Subsurface Oil Observed: Yes X No _____ Maximum Depth 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 includes 1) manual pickup of mousse and tarballs, and 2) bioremediation of area shown on attached sketch map. Work should be conducted between 6/1 to 7/10 based on eagle nest and salmon constraints with approval of USFWS regarding eagle nest.

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____

EXXON _____

NOAA _____

USCG _____

FOSC: _____ DATE: _____

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

Salmon stream mouth - spawning (7/1 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 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

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

7J Invertebrate harvesting

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

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

FIELD SHORELINE COMMENT SHEET

PWS

4/6/53

226-20^{am}

SEGMENT ST/ BP004 SUBDIVISION: 16395 DATE 1/23/90

USCG

NAME CWO MC NATION SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

1. MANUAL TREATMENT: REMOVE TAR MATS LEFT RIGHT

ADEC

ADF4G

NAME NO TEAM member SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

MANUALLY REMOVE TAR MATS BETWEEN LARGE BUNKERS AND
TIDAL BANDS OF SCATTERED TAR PATCHES. TROWELS MAY BE
REQUIRED TO REMOVE TAR/MOSS BETWEEN BUNKERS.

LAND MANAGER

NAME NO TEAM member SIGNATURE _____

☐ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

ACE 6976444

REVISION NO. 08/21/90

OG WILLIAM LEID USCG McMAHON SEGMENT ST/ BPO 04 49/53
 BIO MICHAEL FAWCER LAND REP TOM E. FAWCER STRIP 22620-163751 OF
 EXXON GUS GARCIA ADFG MIKE VIERMER TIME 18:430
 TEAM NO. 15 TIDE LEVEL 0.5 FT DATE 23 / APR / 90
 EST. SUBDIVISION LENGTH: 55A m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R 9 % S 10 % C 20 % P 70 % G 0 % S 0 % M 0 % V 0
 SLOPE: Long 90 % Hang 10 % Vert 0 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 55 m N 0 m VL 0 m NO 15

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR					IMPACTED ZONES			
	R	S	P	A	1	2	3	4	5	BU	U	M	U
ASPHALT PAVEMENT													
POOLED													
COVER													
COAT													
STAIN													
MOUSSE													
PATTIES													
TARBALLS													
FILM													
NO OIL													

PAVEMENT H F S 0 sq. m by 0

PATTIES / TARBALLS 1 BAK

NEAR SHORE SHEEN? ☒ NO BR RW SL T

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

Did You Collect DEBRIS

☐ YES ☒ NO

TYPE 0

#BAGS 0

Photographs:

Roll No. 0

Frame 0

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

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL	BELOW		OIL / FILM COLOR					PIT ZONE				A N A	Z N A	V	SURFACE SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		NO	NO	1	2	3	4	5	BU	U	M	U				
* 1	30						3.0															P/G/C
2	35						.															P/G/C
3	40						.															P/G
4	35						.															P/G/C
5	20						.															P/G/C

COMMENTS

REVIEWED TW DATE 4-25-9

ACE 6976445

Hand-drawn map of a study area. The map includes several labeled regions and landmarks:

- Top Left:** A circled area labeled "465" with an arrow pointing to a "BOULDER FIELD".
- Top Center:** A label "PATTER X HOUSE" with an arrow pointing to a small structure.
- Top Right:** A label "OILED LOSS" with an arrow pointing to a line.
- Center:** A large area labeled "AREA 1" with a dashed line. To its right is a label "TAR PATTER" with an arrow pointing to a small cloud-like shape.
- Bottom Left:** A label "THERMALS" with an arrow pointing to a dashed circle labeled "P".
- Bottom Center:** A label "5.5M" with an arrow pointing to a line.
- Bottom Right:** A label "AREA 2" with a dashed line. To its right is a label "PATTER X HOUSE" with an arrow pointing to a small structure.
- Far Right:** A label "OILED LOSS" with an arrow pointing to a line.
- Far Bottom Right:** A label "PATTER X HOUSE" with an arrow pointing to a small structure.
- Far Bottom Left:** A label "DEER" with an arrow pointing to a small animal.

Handwritten notes in the bottom right corner:

- "MAKING ABOVE THE PATTER & HOUSE"
- "MALE OILED LOSS SPENTED FROM STREAM AND INJURED RIVER JUS"
- "DROPPING"

ADP&C MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: CS SS CS TS AVS SCM HPH PTA

2 REGION: PNS KP,CI KAP

METHOD: Aerial Ground Boat

3 DATE: 4/23/90

15 HIGH TIDE TIMES: 0021 11257

21 TEAM RECORDER: M. WIEDMER

4 START TIME: 1850

16 HIGH TIDE HTS: 11.5' 10.5'

22 OBSERVERS: T. CROW

5 STOP TIME: 1915

17 LOW TIDE TIMES: 0648 1855

23 AGENCY: ADFC

6 SEGMENT #: BP-004

18 LOW TIDE HTS: -0.8' 0.5'

24 PHOTOS TAKEN: Y (N)

7 STATION #: 236-40-16395 TIDE HT AT SURVEY: 0.5'

Roll #: _____ Frame: _____

8 K-UNIT: 226-20-16395 Ebb (Stack) Flood Stack

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: Point Countess

Sediment _____

14 DESCRIPTION: _____

Biological _____

EXTENT OF OIL

Water _____

	SHORELINE				STREAM			
	L	V	H	N	L	V	H	N
27 SURFACE COVERAGE	100	75			75	1		0

36 CATALOGED ANAD. FISH SKELET (Y) N

37 CATALOG #: 226-20-16395
226-20-16395

38 STREAM NAME: _____

28 SURFACE THICKNESS	5mm	1mm	2cm	0	0	0
29 PENETRATION	5cm	5cm	10cm	0	0	0

39 OIL IN STREAM BED? Y (N)

40 OIL ON STREAM BANK? (Y) N

30 OVERALL OIL IMPACT: N VL L (N) 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

ALEVIN PRESUMED

34 WAVE EXPOSURE: High Moderate (Low)

44 ANADROMOUS FISH OBSERVATION

Species Aerial Ground

35 SUBSTRATE TYPE: Bedrock Boulder 10 Cobble 45
Gravel 45 Sand Mud/silt

COMMENTS: Tar patties in two rings along mid and upper
intertidal zones (in gravels & small cobbles). Some patties
are partially to completely buried. Pools of mousse in large
boulders east of channel.

S(S)

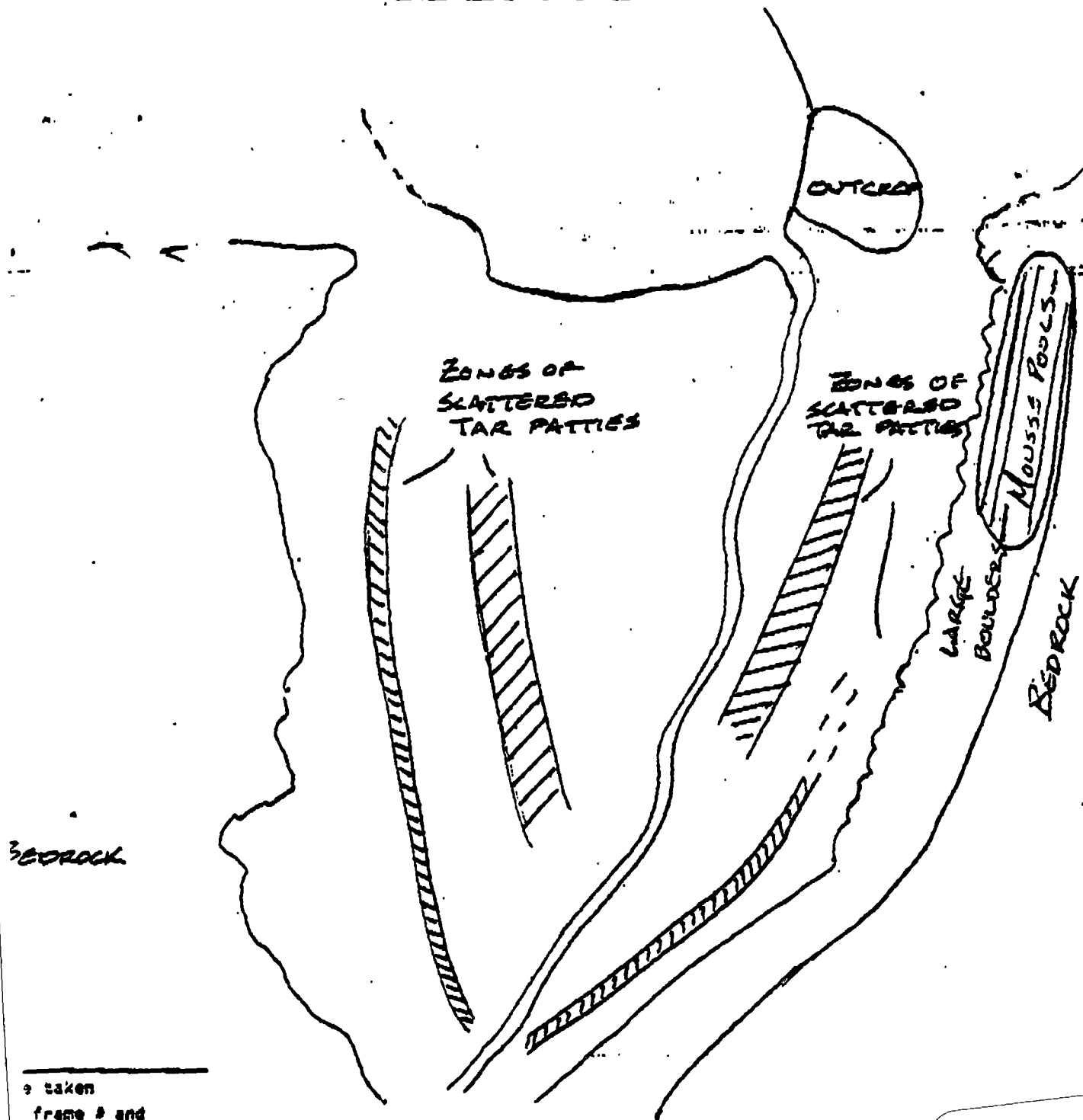
DESCRIPTION

RECOMMENDATIONS: MANUAL REMOVAL OF ALL TAR PATTIES.
 MANUAL REMOVAL OF MOUSSE POOLS BETWEEN BOULDERS -
 WILL REQUIRE TROWELS ETC.
 REMOVE OILED LOGS.

I agree with recommendations.

W. H. F. 10/10/78

48 OIL DISTRIBUTION DIAGRAM



9 taken
 frame 9 and
 direction.

ACE 6976448

Segment B P004
Stream 226-20-16395
Ecological Summary

4/23/90
Michael Fawcett

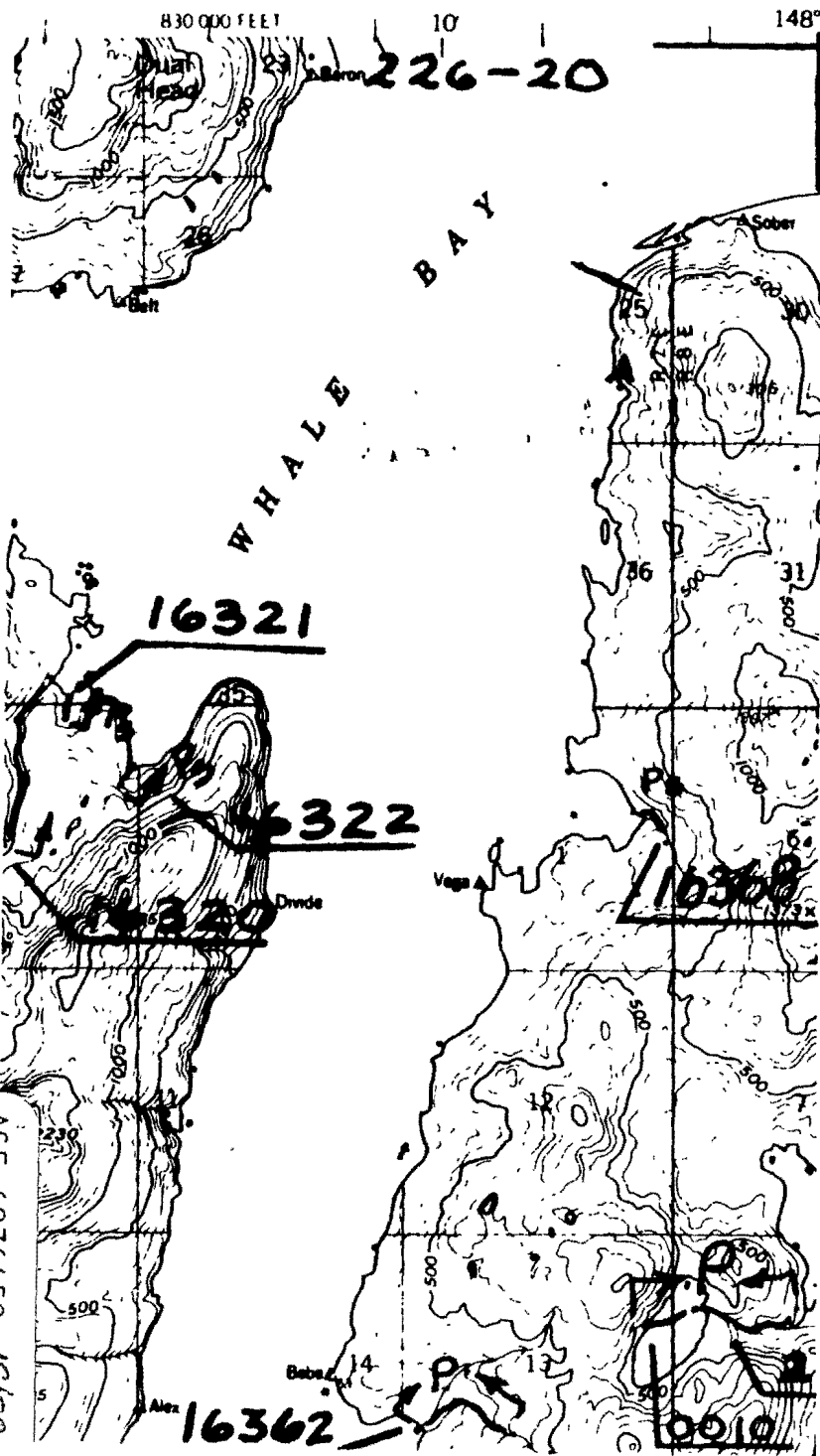
This small stream enters a sheltered cove via a cobble/gravel/pebble delta, with bedrock at the ends. Patchy dense Fucus occurs along the stream on cobbles and bedrock. Dense barnacles, Fucus, mussels (including recently settled 3-5mm juveniles), and Littorines (also including new juveniles) occur on bedrock outcrops in MTZ & UTZ. Large old barnacles (Balanus cariosus) are sparsely distributed in LTZ. The sand/gravel beach in LTZ has a surface and infaunal community similar to that at 226-20-16397 (clams, worms, gnnels, etc.) One sea otter watched our activities. Numerous otter holes (from clam digging) were seen in LTZ. About 12 Pycnopodia (sun stars) were observed in an LTZ tidepool on bedrock. Cleanup activities should be conducted with as little disturbance as possible to LTZ area.

M H Fawcett

SEWARD (A-4) QUADRANGLE

ALASKA

1:63,360 SERIES (TOPOGRAPHIC)

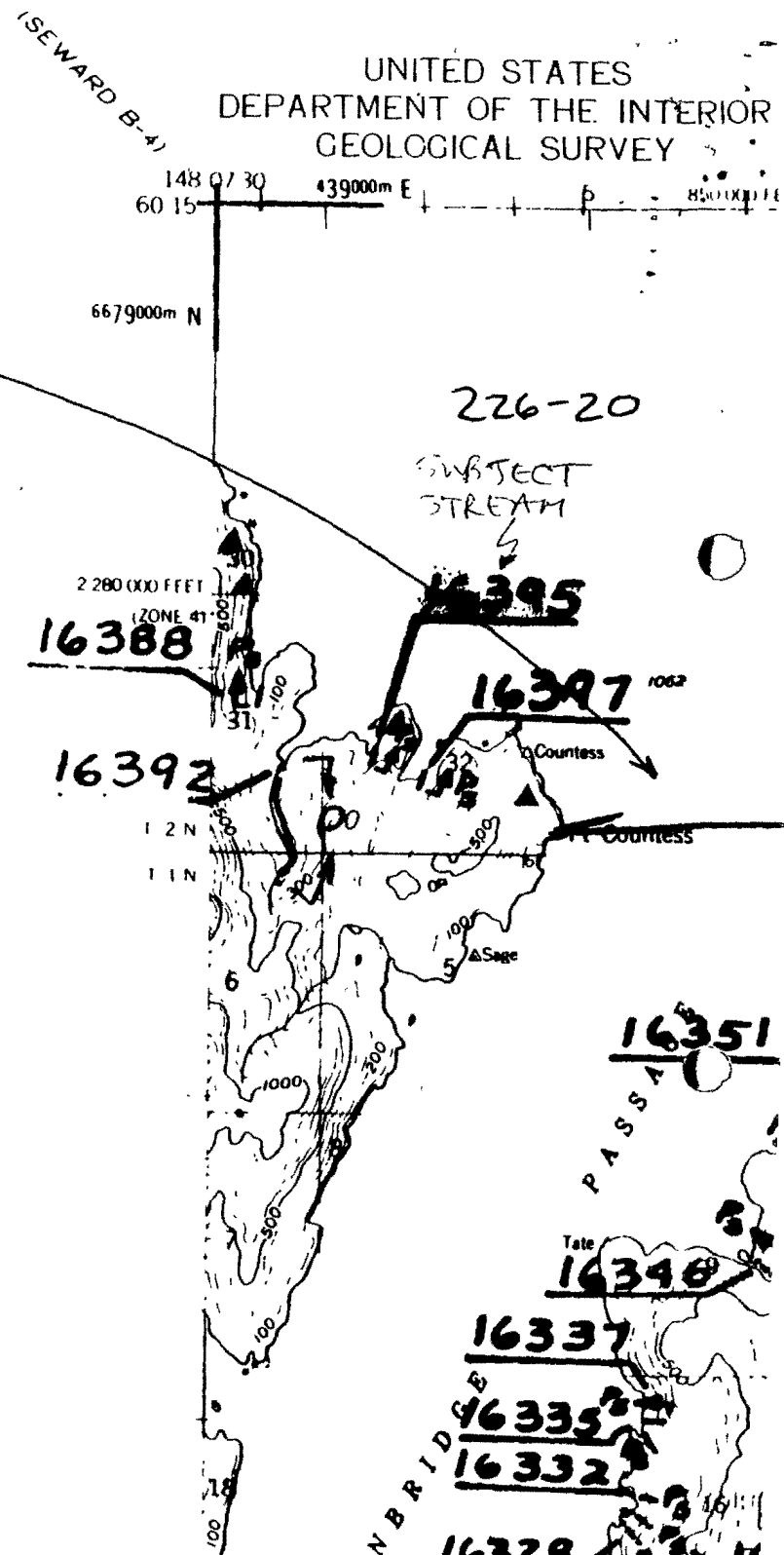


ECOLOGY MAP

BP-4

▲ = Eagle Nests

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



SKETCH MAP

SEGMENT ST/ BP-004

SUBDIVISION 226-20-16395

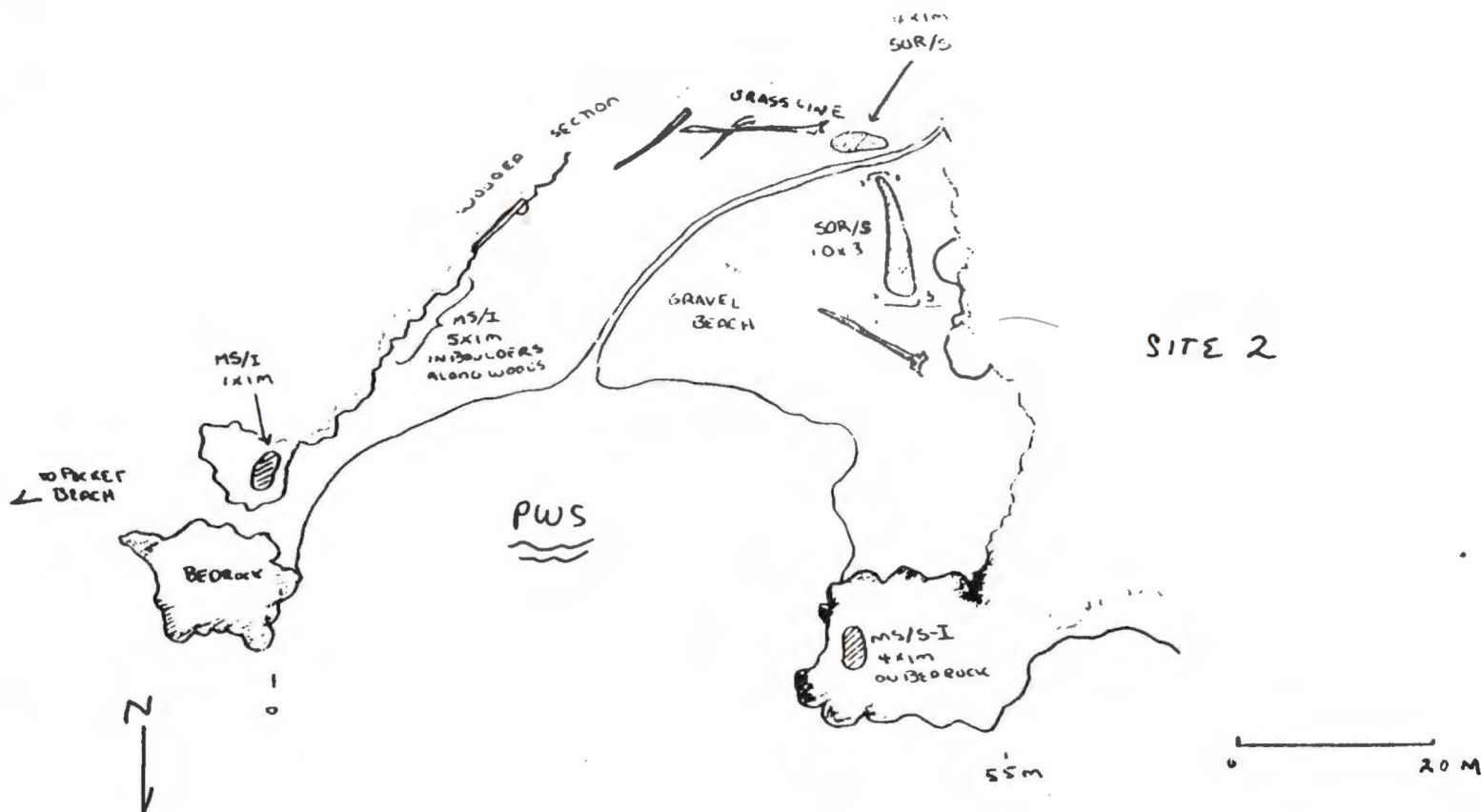
DATE AUG 15/ 90 p645

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 Δ⁺
Pit Subsurface Oil
- CT/C
Continuous Distribution
- CT/D
Broken Distribution
- CT/P
Patchy Distribution
- CT/S
Splashed Distribution
- llk
Oiled Vegetation
- 1 ●→
Photo location, direction, and number



226-20-16395

SEGMENT AS / BP-104 SUBDIVISION: ANADROMOUS SITE: 2 DATE 15 AUG 1990**USCG**NAME DON CRUIS, GM, USCG SIGNATURE [Signature]☒ YES☐ NO

PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

LIGHT OILING NOTED ON ANADROMOUS STREAM SITE. SOME INTERSTITIAL MOUSSE NOTED IN BOULDERS AND BEDROCK OUTCROPS. TWO BANDS OF "SOR" LOCATED TOWARD EDGE OF WOODS NEXT TO STREAM. REMOVAL OF ANY DEPOSITS AND RAKING OF "SOR" BANDS RECOMMENDED. REASSESSMENT IN 1991, DUE TO ANADROMOUS STREAM SEGMENT

ADECNAME Bob McCreedy SIGNATURE Robert G. McCreedy☒ YES☐ NO

PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

Very little oiling found on this segment. A small amount of interstitial mousse was found as well as some SOR at the SW corner of segment next to stream. The manual removal of remaining surface submerger, followed by tilling and bioremediation is recommended. Reassess in '91.

AND MANAGER NOAANAME DON CLINE SIGNATURE [Signature]☒ YES☐ NO

PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

MOUSSE EXISTS ON SHALY BEDROCK OUTCROPS. SOR OCCURS NEAR STREAM OUTLET. SPORADIC MOUSSE PATCHES SHOULD BE REMOVED RAKING TO REMOVE SOR IS RECOMMENDED

XXONNAME Al Snook SIGNATURE Al Snook☐ YES☒ NO

PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

VERY LIGHT DEGREE OF OILING REMAINS AFTER THIS SUMMER'S CLEANUP; NEGLIGIBLE AMOUNT OF RECOVERABLE OIL REMAINS. BEACH FACES NORTH & IS MEDIUM TO HIGH ENERGY; THEREFORE NO REASON TO REASSESS IN 1991.

VECO CREW REMOVED SEVERAL PT/TB ON THIS SITE.

REVISION NO. 7/26/90

ACE 6976511 +12

3

EXXON

AL SNOOK

SEGMENT AS

BP004

OG LINOSAY NAKASIMUSCG DON ORLINS

SUBDIVISION 226-20-16395

ADEC Bob McCreary

LAND REP STEVE WARD

TOTAL NO. SITES 4

DATE 8/15/90

TIME 6:41 7:06 12:44

TIDE LEVEL $+3.5$ to $+3.5$

TOTAL EST LENGTH OF SHORELINE SURVEYED: 120 m ^{DOCK CLING}

SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo **WEATHER:** ☐ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow

OIL CATEGORY LENGTH: W m M m N 10 m VL 14 m NO 96 m US m

SURFACE OIL

SITE # 2

~~SITE 2~~

~~STATE-3~~

CHARACTER	DISTRIBUTION				OILED ZONES			
	/C	/B	/P	/S	SU	UI	MI	LI
ASPHALT								
S.O.R.				X		X		
POOLED								
COVER								
COAT								
STAIN								
MOUSSE				I		X		
PATTIES/T.B.								
FILM								
NO OIL					X		X	X
EST. SITE LENGTH					120 m			

[illegible][illegible]

SITE 2
BP 4
ANAD STR

347 Aug 90

SUBSURFACE OIL

[illegible]

Photographs:

Roll No. _____

Frames _____

COMMENTS

COMMENTS
- ms/I in interstices of bedrock outcrop on southside of the stream - the same applied to the northside where a large bedrock outcrop occurred

-THE HEAD OF THE POCKET RECENT EXAMINED SOPS ON EACH SIDE OF THE STREAM

- FIELD CREW WORKED THE AREA

REVISION NO. 7/27/88

ACE 6976512

WH-500

BP-4

226-20-16388

SITE #2
(YES)

10m NARROW

226-20-16395

226-20-16392

226-20-16397

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

BP-4

ADEC Subsegment Length: 0m
METERS

0 457 814
AK State Plane Zone 4 1:18000
pbp-4a



Subdivision Field Map

Map Key: PWSBP-4a

Name: TRIM FOR NAKASHIMA

Date: 24 Aug '90

Data Entered:

ACE 6976514

WH-500

BP-4

226-20-16388

SITE #2

226-20-16395

226-20-16392

226-20-16397

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

BP-4

ADEC Subsegment Length: 0m

METERS

0 457 914
AK State Plane Zone 4 1:18000
pbp-4a



Subdivision Field Map

Map Key: PWSBP-4a

Name: TRIM FOR NAKASHIMA

Date: 24 Aug 90

Data Entered:

ACE 6976515 -12



OFFICIAL PHOTOGRAPH ADF&G EXXON VALDEZ OIL SPILL

OFFICE: VALDEZ

DATE: 09/16/89

TIME: -0-

SEGMENT#: -0-

STATION#: -0-

LOCATION: PT. COUNTESS, BAINBRIDGE PASSAGE

REASON FOR TAKING PHOTO: DOCUMENTING UNDOCUMENTED SALMON SPAWNING
STREAM (148°00'35"/60°13'13"). (AERIAL PHOTO OF
INTERTIDAL AREA).

TAKEN BY: RICK GUSTIN

INITIALS: _____

ROLL #: 89RLG008V FRAME #: 08

EVIDENCE ID#: 10211

ACE 6976427

LIST OF ASAP REPORTS and TAG RECOMMENDATIONS
CONTAINING ANDROMOUS STREAMS

9/10/90

<u>SEGMENT</u>	<u>CATALOG #</u>	<u>TAG RECOMMENDATION</u>
BA002A	226-40-16450	
BP004	226-20-16392	
BP004	226-20-16397	Bio/Customblen
BP004	226-20-16388	
BP004	226-20-16395	
CH002A	226-20-16180	
CH009B	226-20-16182	Tarmat removal/Bio
CH900A	226-20-16200	
CU014A	224-20-13036	
CU013A	224-20-13030	
EL052B	226-10-16902	NTR
EV014A	226-40-16640	
EV017A	226-40-16620	
EV025A	226-40-16613	
EV071B	228-40-16484	
GR007A	NOT CATALOGED	
GR103A	227-20-17880	
KN213B	226-30-16853	NTR
KN129A	226-10-16975	
KN129B	NOT CATALOGED	
KN132B	226-10-16982	
KN135A	226-30-16285	
KN211E	226-10-16875	NTR
KN401A	226-30-16820	
KN500A	226-10-16992	NTR
KN701B	226-30-16840	NTR
LA018A	226-40-16780	
LA021B	226-40-16776	
LA021A	226-40-16774	

Final Anadromous Stream Treatment Information

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

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: BP004
LOCATION: BAINBRIDGE PASSAGE

DATE: 10/12/89
TIME: 17:00

Survey Type: Boat, Ground
Team: J. Krieger, K. Dutcher

WEATHER AND SEA CONDITIONS

Weather: Sunny
Sea State: Calm

Wind Direction: variable
Knots: 0-15

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

SHORELINE DESCRIPTION

Shoretypes: H,LR,B,C
(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,B,C,G
(R=bedrock, B=boulder, C=cobble, G=gravel, S=sand, M=silt)

OIL CHARACTERISTICS

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

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

Percent Segment Categorized as Oiled: 0%
Presence of Oiled Driftwood (y/n): n
Oil Types: none
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: none / none / none / none

DAMAGED OR OILED ORGANISMS

Fucus (y/n): n 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 11:00

Walk-a-thon

ACE 6976430+/AC

ASAP survey - 90

226-20-16395

D362

SEGMENT AS / BP 404 SUBDIVISION: Anonymous SITE: 2 DATE 15 AUG 1990

COC

NAME DON CRUIS, GM, USCG SIGNATURE *Don Cruis*☒ YES☐ NO

PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

LIGHT OILING NOTED ON ANONYMOUS STREAM SITE. SOME INTERSTITIAL MOUSSE NOTED IN BOULDER AND BEDROCK OUTCROPS. TWO BANDS OF "SOR" LOCATED TOWARD EDGE OF WOODS NEXT TO STREAM. REMOVAL OF ANY DEPOSITS AND RAKING OF "SOR" BANDS RECOMMENDED. REASSESSMENT IN 1991, DUE TO ANONYMOUS STREAM SEGMENT

DEC

NAME *Bob McCreary* SIGNATURE *Robert G. McCreary*☒ YES☐ NO

PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

Very little oiling found on this segment. A small amount of interstitial mousse was found as well as some SOR at the SW corner of segment next to stream. The manual removal of remaining surface submerfer, followed by tilling and bioremediation is recommended. Reassess in '91.

MANAGER NOAA

NAME DON CLINE SIGNATURE *Don Cline*☒ YES☐ NO

PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

MOUSSE EXISTS ON SHALY BEDROCK OUTCROPS. SOR OULETS NEAR STREAM OUTLET. SPORADIC MOUSSE PATCHES SHOULD BE REMOVED RAKING TO REMOVE SOR IS RECOMMENDED

XXON

NAME *Al Snook* SIGNATURE *Al Snook*☐ YES☒ NO

PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

VERY LIGHT DEGREE OF OILING REMAINS AFTER THIS SUMMER'S CLEANUP; NEGLIGIBLE AMOUNT OF RECOVERABLE OIL REMAINS. BEACH FACES NORTH & IS MEDIUM TO HIGH ENERGY; THEREFORE NO REASON TO REASSESS IN 1991. UECO CREW REMOVED SEVERAL PT/TB ON THIS SITE.

REVISION NO. 1/76/90

ACE 6976431-1/3

SURFACE OIL

SITE # 2

~~SITE 2~~

~~SAFE-3~~

[illegible][illegible]

3A7 Aug 90

SUBSURFACE OIL

[illegible]

Photographs:

Roll No.

Frames

ACE 6976432

7MMENTS

7. COMMENTS
- MS/I in interstices of bedrock outcrop on southside of the stream - the same applied to the northside where a large bedrock outcrop occurred
- THE HEAD OF THE POCKET REACH EXAMINED SOPS ON EACH SIDE OF THE STREAM

KETCH MAP

SI-GMI NT ST/BP-004

SUBDIVISION 226-20-16395

DATE AUG 15/ 90 6045

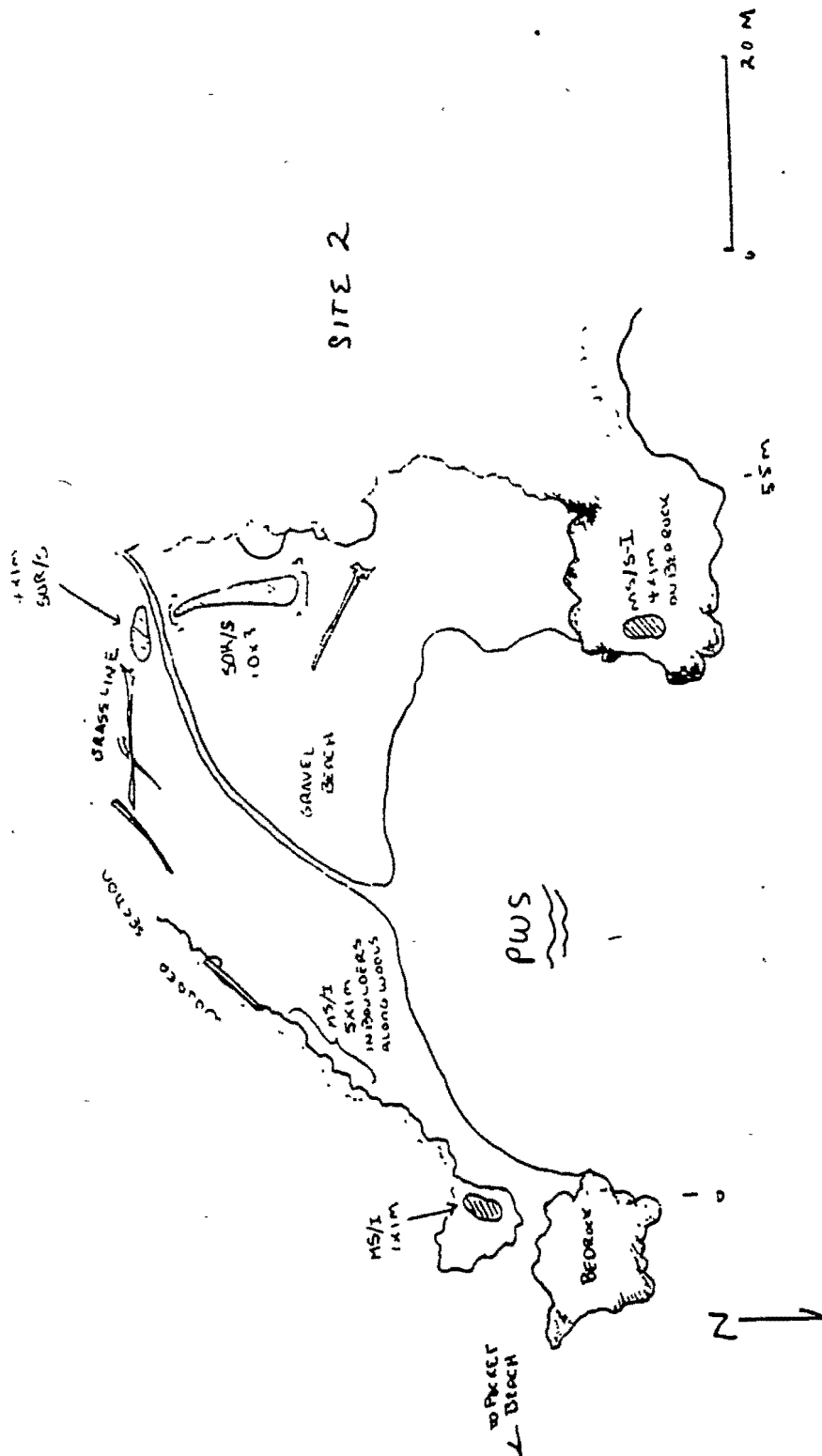
CHECKLIST

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

LEGEND

- 1 Δ Pit No Subsurface Oil
- 2 Δ Pit Subsurface Oil
- CT/C Continuous Distribution
- CT/B Broken Distribution
- CT/P Patchy Distribution
- CT/S Splashed Distribution
- RLK Oiled Vegetation

Photo location, direction, and number



ACE 6976433

Oil Character Length (m) AP

PO

CV

CT

ST

MS

PT

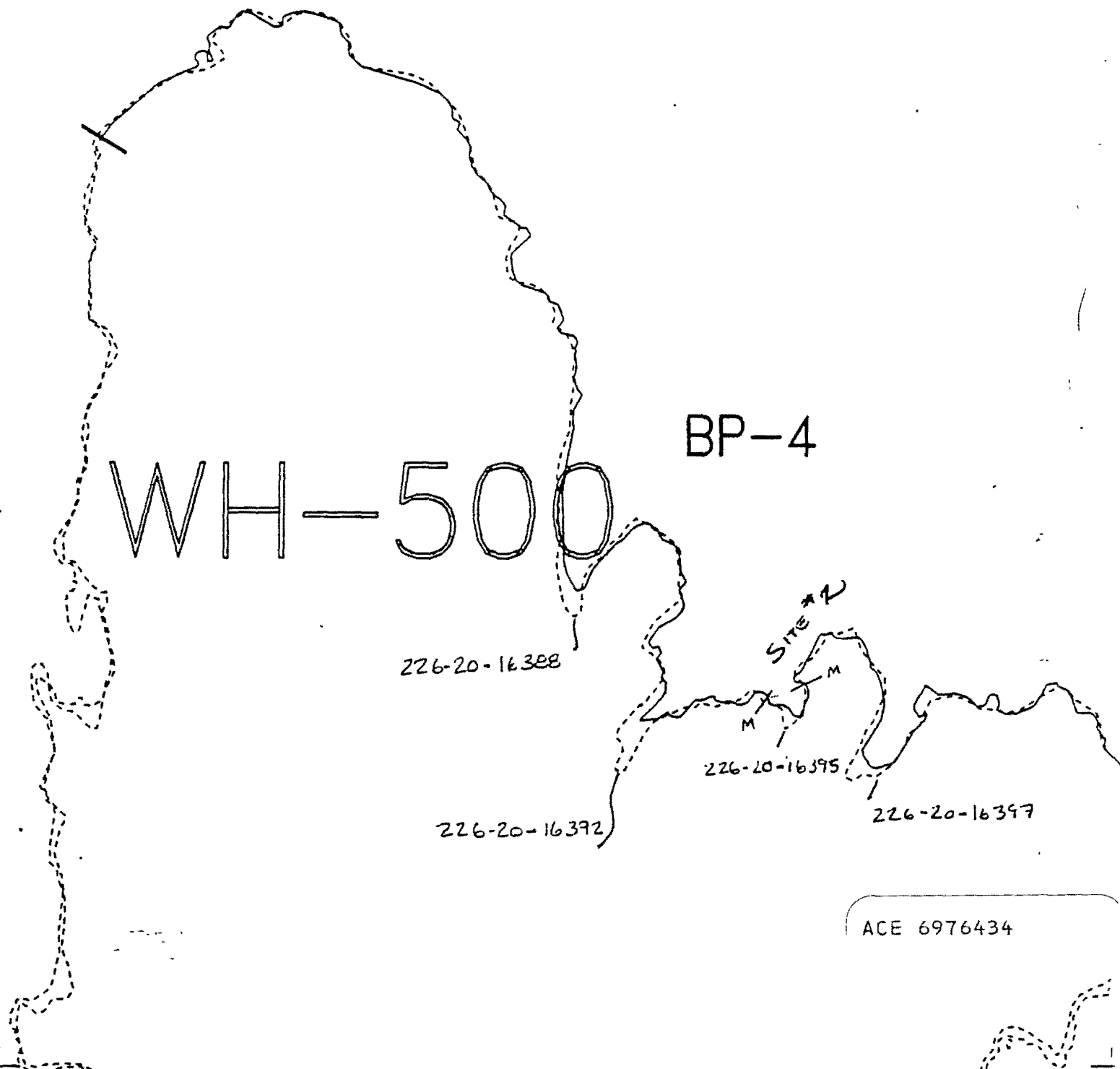
TB

FL

NO

SOK 14

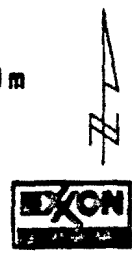
REVISED 08/01/90



ACE 6976434

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

BP-4
ADEC Subsegment Length: 0m
METERS
0 457 914
AK State Plane Zone 4 1:18000
pbp-4a



Subdivision Field Map
Map Key: PWSBP-4a
Name: TRIM FOR NAKASHIMA
Date: 24 AUG 90
Data Entered:

A.S.A.P.

BP 04-anad
site 2

August 15, 1990

ADEC recommends the following treatment:

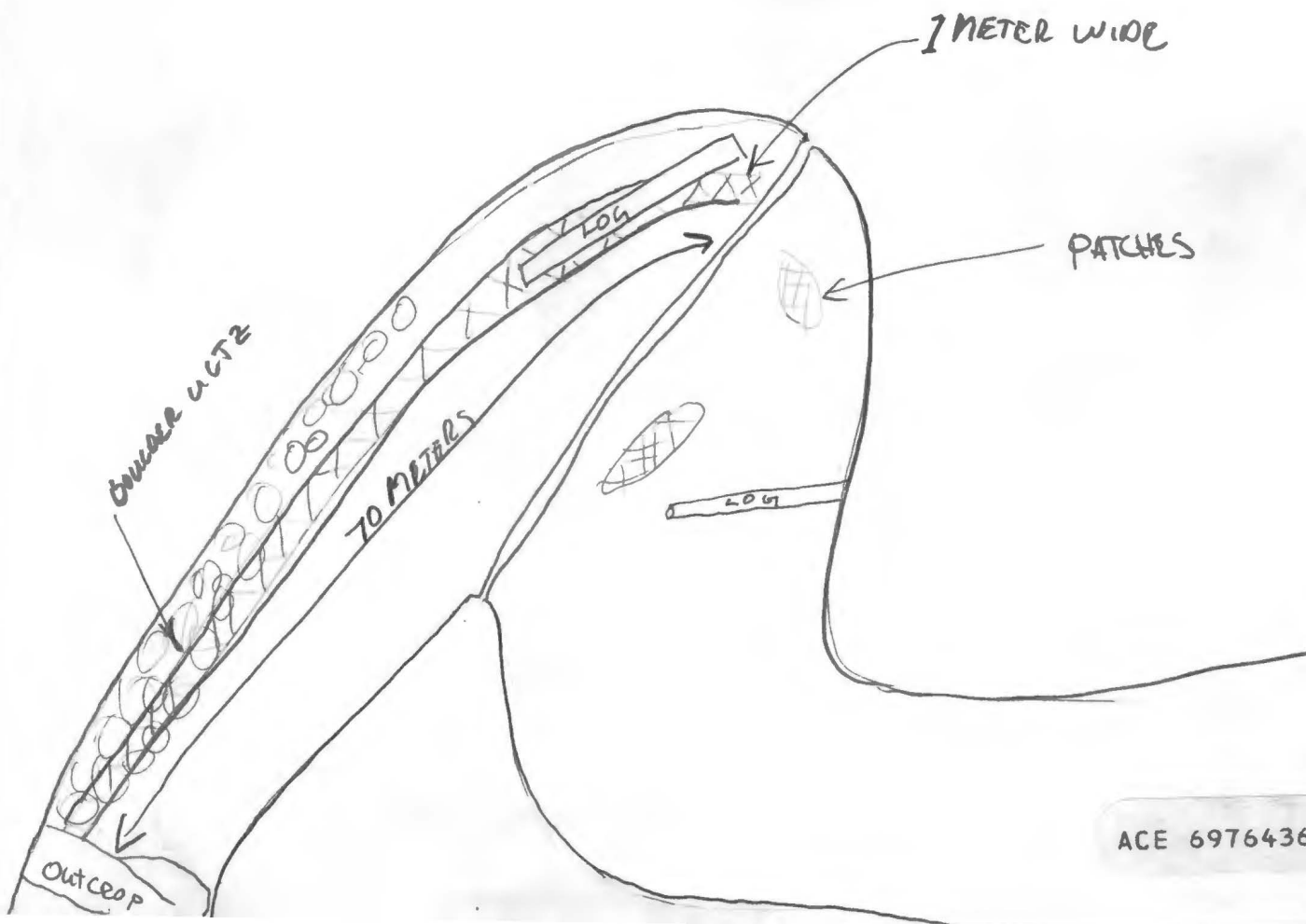
- 1) Manually remove all AP, SOR, MS and subsurface oil
- 2) Till and bioremediate all treatment areas/ and those locations that have residual oiling - with ADF&G approval

ANADROMOUS FISH STREAMS/OILING CONDITION
PWS

Segment # BPO04 ASC# 22610-16395 Location POINT COWTRESS
Date 8/8/90 Recorder/Observer TOM CROWE / AMEE WESEMAN
Oil in streambed N Oil on streambanks Y
Oil within 50m of mouth Y Anadromous Fish present Y
500 PINK SALMON AT MOUTH OF STREAM 1 DEAD (P) ON BANK

Description of oil and comments SCATTERED AREAS OF TAR MAT
IN UUTZ. MOST OF REMAINING TAR OCCURS IN BOULDER
AREA RIGHT BANK UUTZ. RECOMMEND MANUAL REMOVAL
OF ALL REMAINING TARED/CONTAMINATED GRAVEL. A MORE
COMPLETE JOB OF REMOVING TAR COULD BE ACCOMPLISHED
BY A CREW IN 1/2 DAY

Oil Distribution Diagram



ACE 6976436

OPERATIONS FIELD NOTES

See Back for Instructions

SEGMENT ID ANAD BP-004
STREAM ID # 226-40-16395
ANNOTATED MAP INCLUDED YIN

DATE 4-23-90
NAME GARCIA
TEAM # 15

SURFACE OIL	Quantities in Meters			None	Treatment Recommendation					
	Length	Width	Area		Bioremediation		Tilling		Spot Hot Water	
					Y/N	% Treat	Y/N	% Treat	Y/N	% Treat
Wide Band	VERY	SPORADICALLY		None						
Medium Band	STAINED, LESS THAN									
Narrow Band	170.									
Very Light										
TOTAL MANDAYS					0		0		0	

SUBSURFACE OIL YES, 3-10 CM IN DEPTH IN AREA 'B' (1M X 2M). MANUALLY REMOVE.

Other (Describe)?	

TARMATS	Quantities in Meters			Treatment Rec			# of Bags	Mandays Required	
	Length	Width	Thick(cm)	None	Breakup	Remove		Breakup	Remove
Area #1	VERY	FEW & SCATTERED				✓	4		1
Area #2 30% OF AREA	20	2	5			✓	10		1
Area #3 BROKEN	20	3	5			✓	5		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>YIN</u>	OILING <u>H/M/L</u>	QUANTITY <u>L/M/S</u>	BURN <u>YIN</u>
-----------------------	---------------------	-----------------------	-----------------

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

GENERAL Snow covering 70 % of the Supratidal Zone?

Wave Exposure H/M/L 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:

MANUALLY REMOVE OILED LOGS, TARMATS, AND MOUSSE AS PER ATTACHED MAP. NO OTHER TREATMENT RECOMMENDED. TOTAL MANDAYS REQUIRED FOR THIS STREAM IS 8.

45/5/ OG WILLIAM REID

SEGMENT ST/ BPO04

STREAM 226-40-16395

DATE 23 / 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 ▲

Pit - No Subsurface Oil

2 ▲

Pit - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

Splashed Distribution

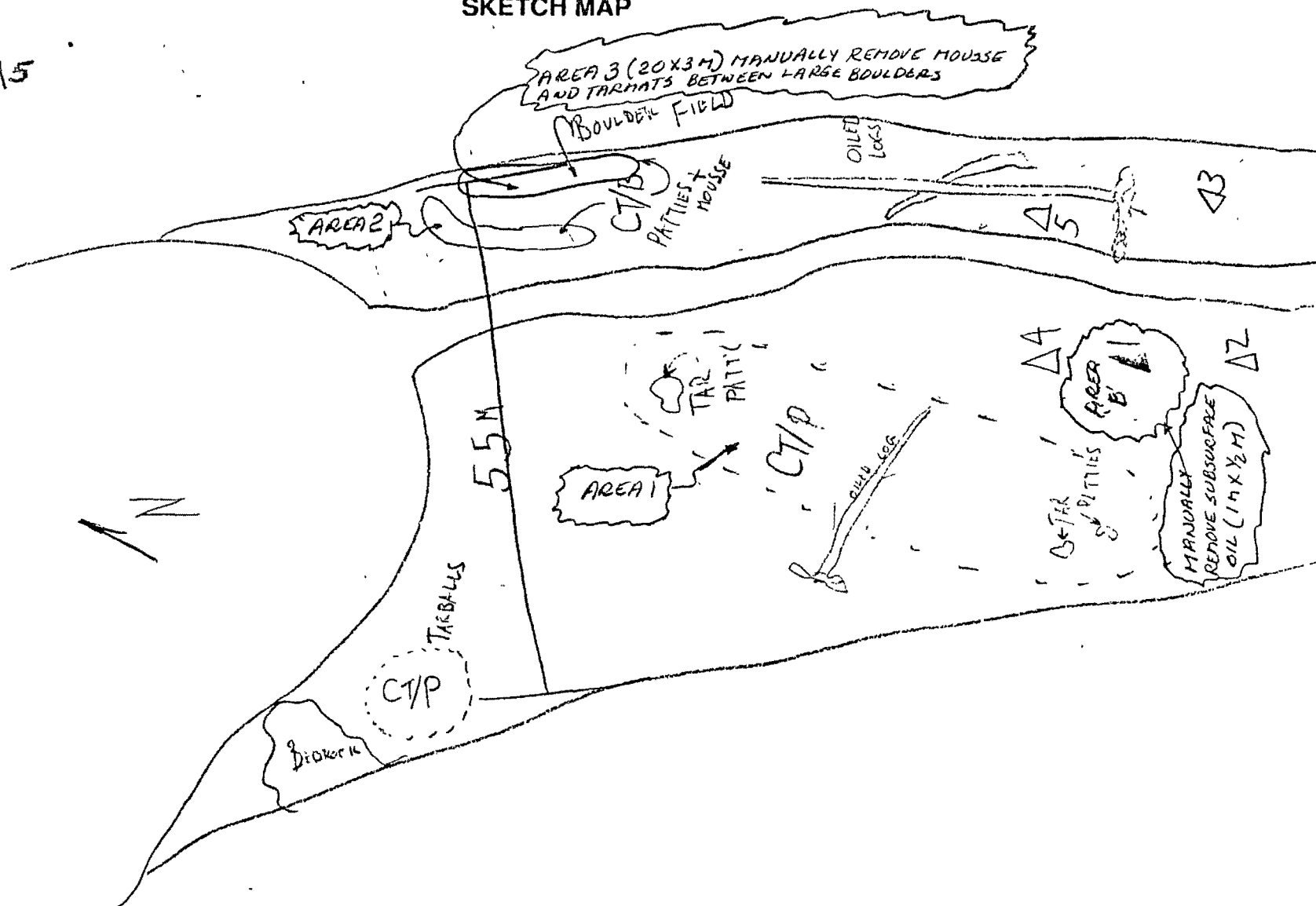
eee

Oiled Vegetation

1 ➔

Photo location, direction,
and number

SKETCH MAP



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

REVISION: 03/24/90

ACE 6976464

FIELD SHORELINE COMMENT SHEET

SEGMENT ST 1 BP 004 SUBDIVISION: 16395 DATE 4/23/90

USCG

NAME CWO MC NATION SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED
COMMENTS

1. MANUAL TREATMENT: REMOVE TAR MATS LEFT+RIGHT

ADEC

NAME ADF+G
NO Team member SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED
COMMENTS

MANUALLY REMOVE TARMATS BETWEEN LARGE BOULDERS AND
TIDAL BANDS OF SCATTERED TAR PATCHES. TROWELS MAY BE
REQUIRED TO REMOVE TAR/MOUSSE BETWEEN BOULDERS.

LAND MANAGER

NAME NO Team member SIGNATURE _____

☐ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED
COMMENTS

ACE 6976465

ADF&G MULTI-ASSESSMENT DATA FORM

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

METHOD: Aerial Ground Boat

3 DATE: 4/23/90 15 HIGH TIDE TIMES: 0021 / 11257 21 TEAM RECORDER: M. WIEDMER

4 START TIME: 1850 16 HIGH TIDE HTS: 11.5' / 10.5' 22 OBSERVERS: T. CROWE

5 STOP TIME: 1915 17 LOW TIDE TIMES: 0648 / 1855 23 AGENCY: ADF&G

6 SECTENT #: BP-004 18 LOW TIDE HTS: -0.8' / 0.5' 24 PHOTOS TAKEN: Y (N)

7 STATION #: 226-40-16392 TIDE HT AT SURVEY: 0.5' Roll #: _____ Frames: _____

8 K-UNIT: 226-20-16395 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: POINT COUNTERSS Sediment _____

14 DESCRIPTION: _____ Biological _____

Water _____

EXTENT OF OIL

	SHORELINE				STREAM			
	L	W	M ²	%	L	W	M ²	%
27 SURFACE COVERAGE	100	75			75	1		0
28 SURFACE THICKNESS	5mm	1mm	2cm		0	0	0	
29 PENETRATION	5cm	5cm	10cm		0	0	0	
30 OVERALL OIL IMPACT:	N	VL	L	<u>(M)</u>	H			
31 OIL TYPE:	Pooled	Mousse	<u>(Tar)</u>	Asphalt	Sticky	Stain		
32 OILED DEBRIS?	Y	N						
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>10</u>	Cobble	<u>45</u>			
	Gravel	<u>45</u>	Sand		Mud/silt			

36 CATALOGED ANAD. FISH SKEIN? (Y) N

37 CATALOG #: 226-40-16392
226-20-16395

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
ALEVIN PRESUMED

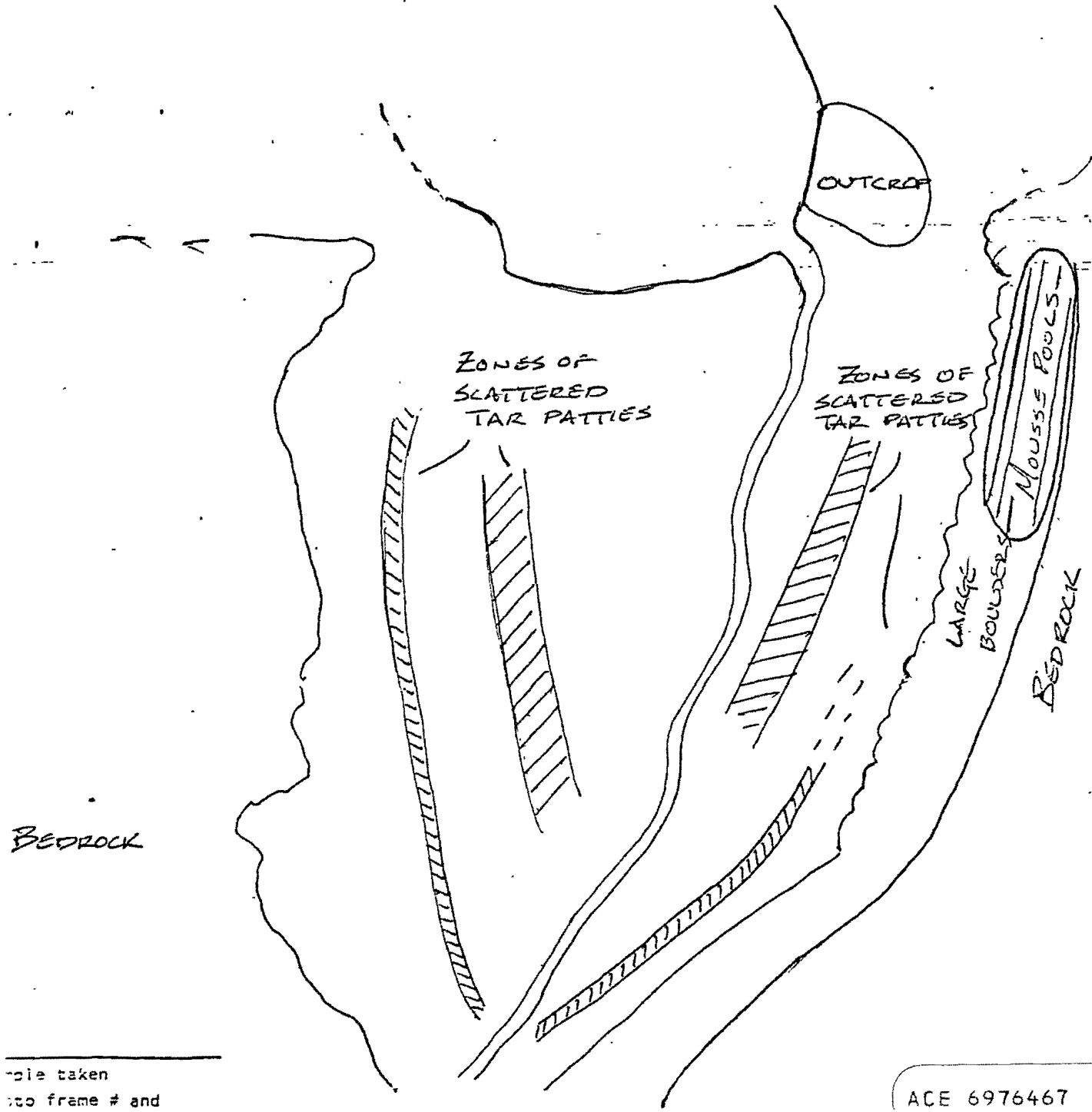
44 ANADROMOUS FISH OBSERVATION

Species	Aerial	Ground

COMMENTS: * TAR PATTIES IN TWO RINGS ALONG MID AND UPPER
INTERTIDAL ZONES (IN GRAVELS & SMALL COBBLES). SOME PATTIES
ARE PARTIALLY TO COMPLETELY BURIED. POOLS OF MOUSSE IN LARGE
BOULDERS EAST OF CHANNEL.

PIPE(S)	DESCRIPTION
	RECOMMENDATIONS: MANUAL REMOVAL OF ALL TAR PATTIES.
	MANUAL REMOVAL OF MOUSSE POOLS BETWEEN BOULDERS -
	WILL REQUIRE TROWELS ETC.
	REMOVE OILED LOGS.
	I agree with recommendations. <i>[Signature]</i>

48 OIL DISTRIBUTION DIAGRAM



Hole taken
 to frame # and
 direction.

OG WILLIAM REIT USCG McMAHON SEGMENT ST/ BPODA 49/53
 BIO MICHAEL FAWCETT LAND REP TOM CROWE ADFG STREAM 226-20-16395 OF
 EXXON GUS GARCIA ADFG MIKE WIEDMER TIME 18:48
 TEAM NO. 15 TIDE LEVEL 0.5 FT DATE 23 / APR / 90
 EST. SUBDIVISION LENGTH: 55M m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R 9 % B 1 % C 20 % P 70 % G % S % M % V
 SLOPE: Lang 90 % Hang 10 % Vert % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W m M 35 m N 5 m VL m NO 15

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	IC	IS	IP	IR	BR	BL	BY	GY	GR	TR	LR		SU	U	M	L
ASPHALT PAVEMENT																
POOLED																
COVER																
COAT																
STAIN																
MOUSSE			X							X				X		
PATTIES		X	X							X				X	X	
TARBALLS			X							X				X		
FILM																
NO OIL																

PAVEMENT H F S sq. m by PATTIES / TARBALLS BAGNEAR SHORE SHEEN? ☒ NO BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs		X	
Vegetation			
Trash			
Debris			

Did you COLLECT
 DEBRIS
☐ YES ☒ NO

TYPE #BAGS

Photographs:

Roll No. Frames

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM)	BELOW		OIL / FILM COLOR								PIT ZONE				A N A	Z SHEEN (Y/N)	T	SURFACE SUBSURFACE SEDIMENT
		OP	OR	OL	OF	NO		UO	UC	BR	BL	BY	GY	GR	TR	LR		SU	U	M	L				
1	30		X				3-10		X		X								X				N		P/G/C
2	35					X	.												X				N		P/G/C
3	40					X	.												X				N		P/G
4	35					X	.												X				N		P/G/C
5	20					X	.												X				N		P/G/C
							.																		

COMMENTS

REVIEWED DATE

ACE 6976468

film AS-15-4, frames 28-34

SKETCH MAP

STREAM 226-20-16395

DATE 23 / 11 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

Plt - No Subsurface Off

2 ▲

Plt - Subsurface Off

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

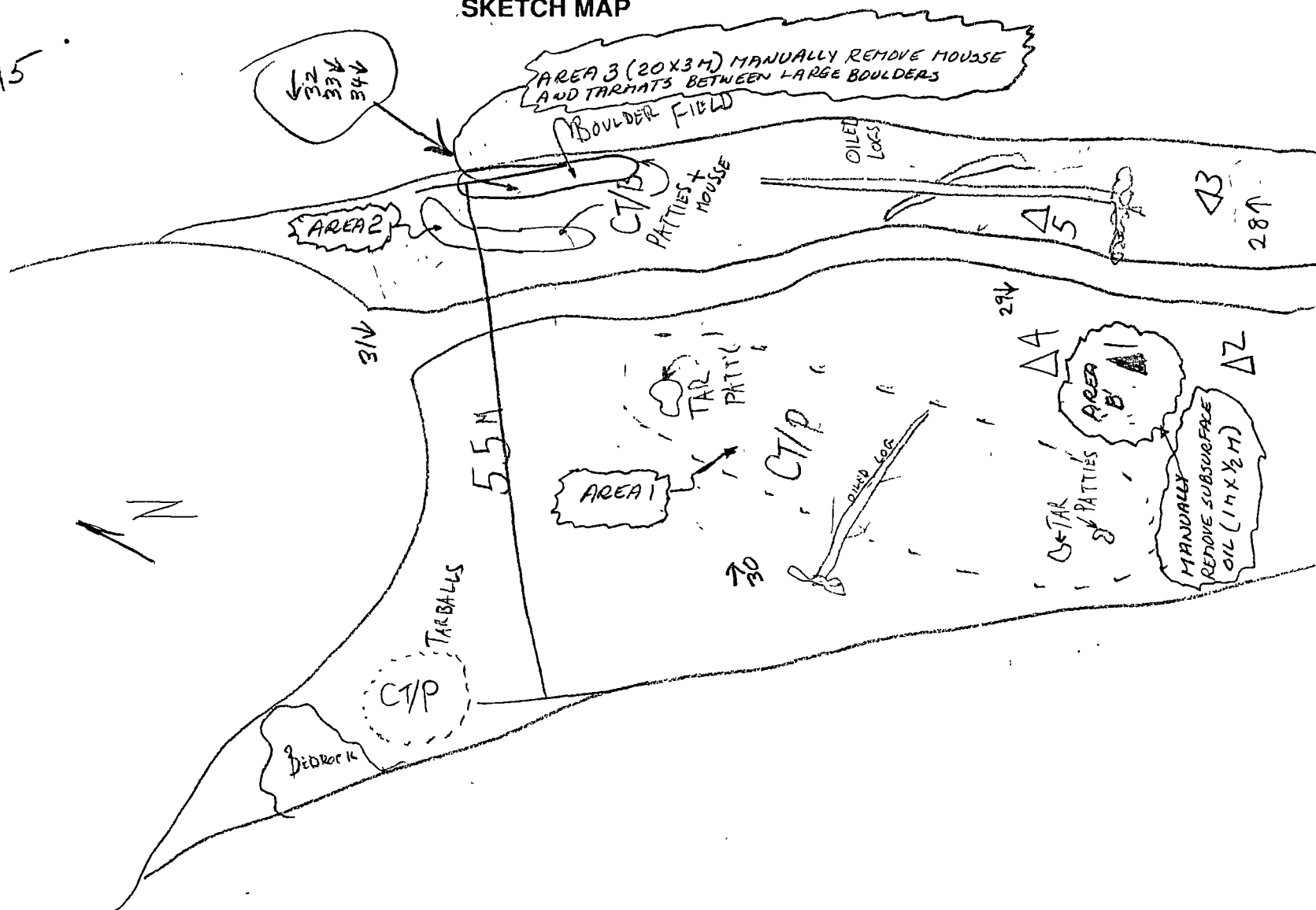
Patchy Distribution

CT/S

Splashed Distribution

Oiled Vegetation

1

Photo location, direction,
and number

ACE 6976469

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

REVISION:03/24/00

GENERAL DATA

226-20-
SEG ID: BP004 SUBDIV: 16395 TEAM: AS-15 SURVEY DATE: 4/23/90
PAVEMENT: CHAR — AREA 0 THICKNESS 0 TARBALLS 0
OILED: LGS MD VEG — TRH — DBR — WAVE EXP: LW — MD X HG —
FAX RCVD: — DT: — AGENCY DISAGREE: —
EST SUBDIV LGTH: 55 OIL CATEGORY: W 0 M 35 N 5 VL 0 NO 15 U 0

SURFACE DATA

SURFACE SEDIMENT: BRK 9 BLD 1 COB 20 PEB 70 GRN 0 SAN 0 MUD 0 VEG 0

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

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

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

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

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

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

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

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

SSAT DATA ENTRY FORM

SUBSURFACE DATA

PAGE 2 OF 2

SEGMENT ID: BP004 SUBDIV: 226-20-16395

PIT # 1 PIT DEPTH 30 OIL CHARACTER 0 ROIL INTVAL: FROM 3 TO 10
 QUANT: UC OIL CLR: DEL FLM CLR: — ZONE: SU — UI X MI — LI —
 SUBSURF SEDIMENT: BRK — BLD — COB X PEB X GRN X SAN — MUD — VEG —

PIT # 2 PIT DEPTH 35 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 X 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 — PEB X GRN X SAN — MUD — VEG —

PIT # 4 PIT DEPTH 35 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 X SAN — MUD — VEG —

PIT # 5 PIT DEPTH 20 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 X 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 BP004

4/23/90

Stream 226-20-16395

Michael Fawcett

Ecological Summary

This small stream enters a sheltered cove via a cobble/gravel/pebble delta, with bedrock at the ends. Patchy dense Fucus occurs along the stream on cobbles and bedrock. Dense barnacles, Fucus, mussels (including recently settled 3-5mm juveniles), and Littorines (also including new juveniles) occur on bedrock outcrops in MTZ & UTZ. Large old barnacles (Balanus cariosus) are sparsely distributed in LTZ. The sand/gravel beach in LTZ has a surface and infaunal community similar to that at 226-20-16397 (clams, worms, gunnels, etc). One sea otter watched our activities. Numerous otter holes (from clam digging) were seen in LTZ. About 12 Pycnopodia (sun stars) were observed in an LTZ tidepool on bedrock. Cleanup activities should be conducted with as little disturbance as possible to LTZ area.

M H Fawcett

ATW
Pre-ANADSCAT-90

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: 4/13/90

15 HIGH-TIDE TIMES: 1

21 TEAM RECORDER: Tom Crowe

4 START TIME: 1010

16 HIGH TIDE HTS: 1

22 OBSERVERS: GREG CHERRY (EXAM)

5 STOP TIME: 1018

17 LOW TIDE TIMES: 1

23 AGENCY: ADF&G ATW

6 SEGMENT #: 8P004

18 LOW TIDE HTS: 1

24 PHOTOS TAKEN: Y (N)

7 STATION #: _____

19 TIDE HT AT SURVEY: _____

Roll #: _____ Frames: _____

8 K-UNIT: _____

Ebb Slack Flood Slack

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

9 STAT AREA: _____

20 USCG QUAD: _____

Start: _____ End: _____

10 LAT: _____

11 LONG: _____

26 SAMPLES TAKEN? Y (N) Number _____

12 SOURCE: Map Loran

OIL _____

13 LOCATION: PT. COUNTRESS

Sediment _____

14 DESCRIPTION: STREAM

Biological _____

Water _____

EXTENT OF OIL

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

30 OVERALL OIL IMPACT: N VL L M H

31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain

32 OILED DEBRIS? Y N

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

34 WAVE EXPOSURE: High Moderate Low

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

36 CATALOGED ANAD. FISH SREAM? (Y) N

37 CATALOG #: 226007 16395

38 STREAM NAME: _____

39 OIL IN STREAM BED? (Y) N

40 OIL ON STREAM BANKS? (Y) N

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

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

Where: _____

43 ANADROMOUS FISH PRESENT? Y N

44 ANADROMOUS FISH OBSERVATION
Species Aerial Ground

COMMENTS: HEAVY TAR/ASPHALT IN UPPER INTERTIDAL

ACE 6976473 +15

FRAME(S)

DESCRIPTION

FWC

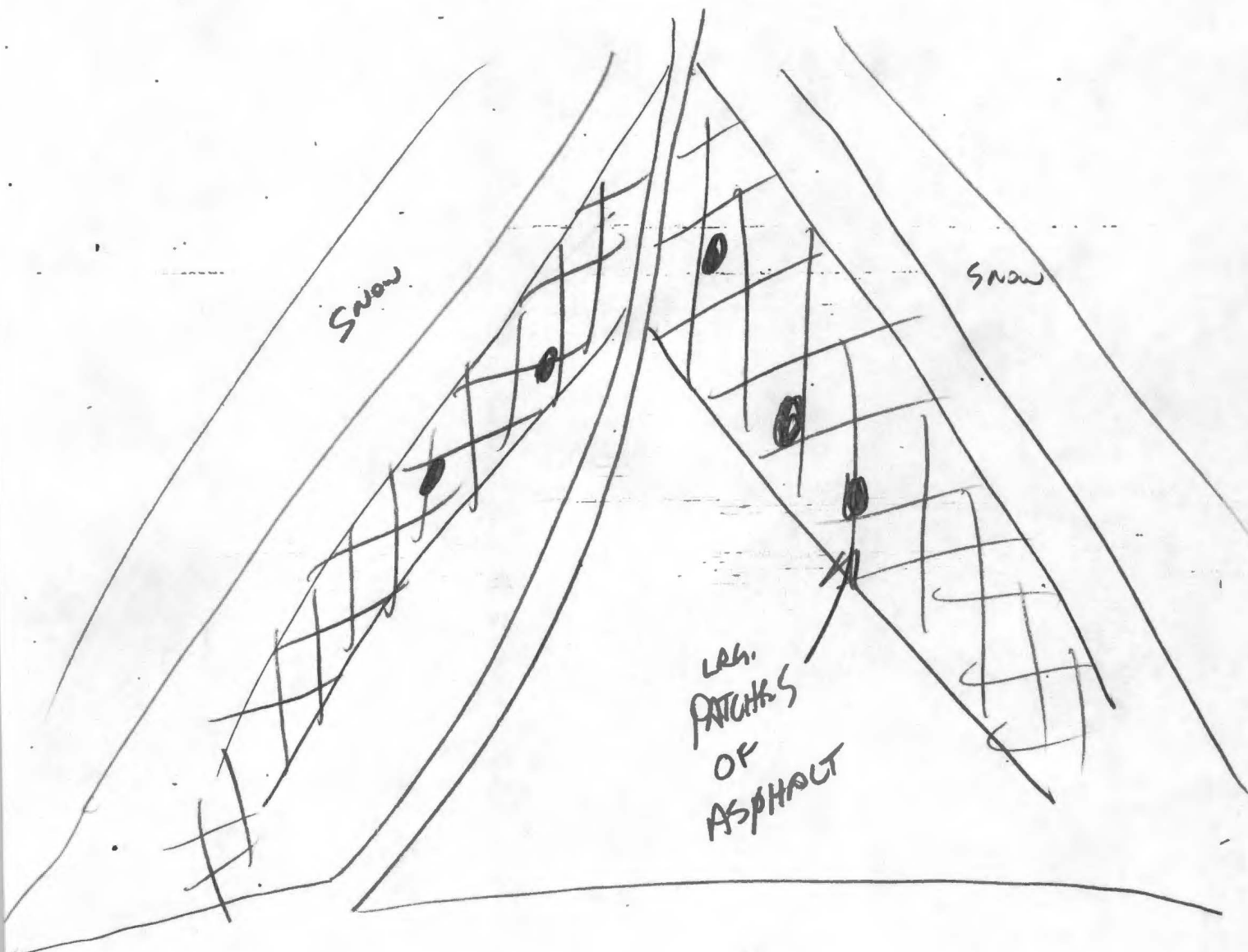
226-20-16395
ATW

PT COUNTRESS

BP 004

4/13/90

46 OIL DISTRIBUTION DIAGRAM



= Sample taken
 = Photo frame # and
 shot direction.

ACE 6976474 -14/5/90

- 1) SURVEY TYPE: BS SS 2) REGION: PWS KP, CI K, AP
- 3) METHOD: Aerial Ground Boat
- 4) DATE: 7/30/91 16) HIGH TIDE TIME: _____ 22) TEAM RECORDER: M. Fink
- 5) START TIME: 1:47 17) HIGH TIDE HTS: _____ 23) OBSERVERS: Kuwada, Middleton, Weseman
- 6) STOP TIME: 2:06 18) LOW TIDE TIMES: _____ 24) AGENCY: F+G
- 7) SEGMENT #: BP-004A 19) LOW TIDE HTS: _____ 25) PHOTOS TAKEN: Y N
- 8) K-UNIT: _____ 20) TIDE HT AT SURVEY: +6 - +10 ft ROLL #: _____ FRAMES: _____
- 9) LAT: _____ Ebb Slack Flood Slack 26) VIDEO TAKEN: Y N
- 10) LONG: _____ 21) USCG QUAD: _____ TAPE # _____
- 11) ASC #: 226-20-16395 START: _____ STOP: _____
- 12) STREAM NAME: _____ 27) SAMPLES TAKEN? Y N
- 13) LOCATION: West of Pt Countess on Mainland SAMPLE I.D. _____
- 14) WAVE EXPOSURE: High Moderate Low
- 15) SHORELINE TYPE: Headland Low-lying Rocks Beach
- Cove Lagoon Marsh

28) EXTENT OF OIL

	LENGTH m	WIDTH m	M2	%	THICK cm	PEN cm	OIL TYPE
<u>SITE 2A</u>	<u>5</u>	<u>2</u>	<u>10</u>	<u><10</u>	<u>-</u>	<u>-</u>	<u>H5012</u>
<u>SITE 2B</u>	<u>0.5</u>	<u>0.5</u>	<u>0.25</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>TB</u>
SITE 3							
SITE 4							
SITE 5							

29) OVERALL OIL IMPACT:

H = >6m band with ≥50% oil coverageM = >6m band with ≤50% oil coverage or ≥3m to ≤6m with ≥10% oil coverageL = <3m band with >10% oil coverageVL = ≤10% oil coverage regardless of band widthN = No oil observed33) ANADROMOUS FISH PRESENT: Y N

34) WILDLIFE OBSERVATION

Species Number

30) OIL IN STREAMBED: Y N31) OIL ON BEACH ADJACENT TO MOUTH: Y N

32) SUBSTRATE TYPE (PERCENT):

Bedrock ✓ Boulder ✓ Gravel ✓ Sand ✓ Cobble ✓ Mud/Silt ✓ Pebble35) COMMENTS: The stream area looks good — a good job of treatment!Removed one geobag of oiled sediments from areas A+B.No reassessment recommended in 1992.* Survey focused on documented oiling treated in 1991.

PAGE 1 OF 3

16388

Observers: Weseman Middleton

SUBDIVISION A

DATE 7 / 30 / 91

TIDE LEVEL + 6 ft. to + 10 ft.

ENERGY LEVEL: ☐ H ☐ M ☒ L

WEATHER: ☐ SUN ☒ CLOUDS ☐ FOG ☐ RAIN ☐ SNOW

TOTAL LENGTH SHORELINE SURVEYED: _____ m

NEAR SHORE SHEEN: ☐ BR ☐ RB ☐ SL ☒ NONE

EST. OIL CATEGORY LENGTH: W_____m M_____m N_____m VL_____m NO_____m US_____m

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 #

FRAMES

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

OG COMMENTS: 226-20-16375 → A good job on the treatment! 226-20-16345 looks good.

No pinks observed.

Removed one geobag of oiled sediments.

226-20 16397 → Pinks observed. Tilled AP/HOR where located. More, undoubtedly, under Fucus wash line. No reassessment recommended in 1992.

226-20-163388 → Tide too high to survey.
~200 pinkies seen near the mouth.

NOT
Recommended
for
reassessing
in
1991.

* Survey focused on documented oiling treated in 1991.

1991 Post Treatment
Assessment

SITE 2 226-20-16395



BP-004-A

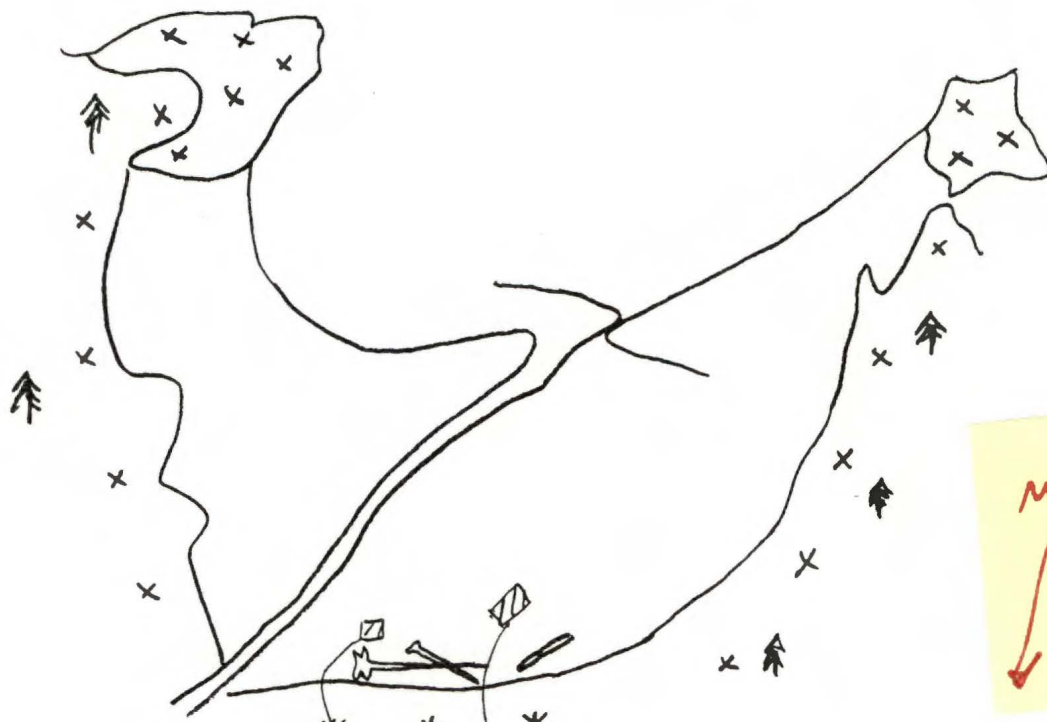
7/30/91

1:47-2:06

FINK, ADF & G



KNIGHT ISLAND
PASSAGE



no pits,
don't
enter

ANADROMOUS
STREAM
226-20-16395

PIT # TO OIL clean below sheer H₂O sedts zone

①

②

③

A
HSOR 2x5m
<10%

P.U.

B
0.5x0.5m
TB

P.U.

ADF&G MULTI-ASSESSMENT FORM
1991 GENERAL ENTRY CHECKLIST

STREAM#: 2262016395
SEGMENT: BP004

PAGE 5

DATE PRINTED: 08/26/91

LOCATION: MAINLAND, BAINBRIDGE PASSAGE, POINT COUNTESS

SURVEY TYPE: 91 POST TREATMENT - SS

METHOD: GROUND

DATE: 07/30/91

TEAM RECORDER: FINK

START TIME: 1347

OBSERVERS: KUWADA MIDDLETON WESEMAN

END TIME: 1406

TIDES: ~~4~~ 6-10 FLOOD

OG/HAB DISCREPANCIES: -

AGENCY: FG

PHOTOS TAKEN: N

STATION: 2262016395

ROLL#: -0-

FRAME: -0-

VIDEO TAKEN: N

TAPE#: -0-

START: -0-

END: -0-

SAMPLES TAKEN: N

SAMPLE NUMBERS: -0-

-0-

-0-

-0-

-0-

-0-

OIL IN STREAM BED: ✓

OVERALL OIL IMPACT: -0-

OIL ON BEACH BY MOUTH: -Y

WAVE EXPOSURE: LOW

SHORELINE TYPE: BEACH COVE

SUBSTRATE TYPE: BEDROCK Y

BOULDER -0-

COBBLE Y

VEGETAT -0-

GRAVEL Y

SAND Y

MUD/SILT -0-

GRANULE -0-

ANADROMOUS FISH PRESENT: N

SPECIES: -0-

COUNT: -0-

-0-

-0-

-0-

-0-

-0-

-0-

-0-

-0-

ADF&G MULTI-ASSESSMENT FORM
1991 OILING ENTRY CHECKLIST

PAGE 7

DATE PRINTED: 08/26/91

STREAM# : 2262016395
SEGMENT#: BP004

SURVEY TYPE : 91 POST TREATMENT - SS LOCATION: MAINLAND, BAINBRIDGE
DATE: 07/30/91 PASSAGE, POINT COUNTESS
TIMES: 1347 - 1406 TEAM RECORDER: FINK

-- OILING EXTENT --

SITE#	SITE TYPE	DEPTH (cm)	LENGTH (m)	WIDTH (m)	AREA (m)	%	THICK (cm)	PEN (cm)	OIL TYPE CODES
A	SURF	-0-	5	2	10	<10	-0-	-0-	HSOR
B	SURF	-0-	.5	.5	.25	-0-	-0-	-0-	TB

COMMENTS:
THE STREAM AREA LOOKS GOOD - A GOOD JOB OF TREATMENT! REMOVED ONE GEOBAG
OF OILED SEDIMENTS FROM AREAS A AND B. NO REASSESSMENT RECOMMENDED IN
1992. *SURVEY FOCUSED ON DOCUMENTED OILING TREATED IN 1991.

EXXON Valdez Oilspill Cleanup

Anadromous Fish Stream Authorization

Date July 5, 1991

EXXON Authorized Representative Jon Garnecki

Shoreline Segment BP004A

Anadromous Fish Stream Number (S) 226-20-16395

Approved Cleanup Techniques Manual Removal of oiled
sediments, mechanical tilling with tide and recovery
of oil

Approved Cleanup Period May 15 - July 10, 1991

If extension is needed, it can be issued with ADFG authorization.

Alaska Department of Fish and Game

Aimee Weseman
Authorized Officer

Jon Garnecki
Permittee's Signature

SEGMENT: BP 04 SUB: A REGION: PWS SURVEY DATE: ADEC**ENVIRONMENTAL SENSITIVITIES:**

Work Window(s) _____

Ecological/Constraints (see page two for details) _____

ARCHAEOLOGICAL CONSTRAINTS:

Consultation and inspection with an Exxon archaeologist is required prior to treatment. Specific on-site monitoring requirements will be determined at that time. PHONE 564-3276; 564-3657; (Anchorage) or 229-1514 (24 hrs.).

Timothy A. Smith for SHAD July 2, 1991

RECOMMENDATIONS:

INITIAL

TAG

FOSC

TREATMENT REQUIRED (Y or N) _____

Manual Pickup (Check as Req.) _____

Spot Washing _____

Bio-Customblen Only _____

Bio-Inipol/Customblen _____

Other MECHANICAL TILL _____

Other _____

COMMENTS:

INITIAL: _____

TAG: MANUAL PICKUP OF AP AT LOCATION B FOLLOWED BY MECHANICAL
TILLING WITH THE RISING TIDE USE SARES TO RECOVER MOBILIZED
OIL FOLLOWED BY BIO.

LOCATIONS E + I - MANUAL PICKUP OF AP ALSO LOCATIONS D + C

FOSC: _____

TAG APPROVAL DATE: July 2 1991

FOSC APPROVAL DATE: _____

ADEC John Bauer

FOSC _____

EXXON PaulUSCG T. J. MangelsNOAA Long

1991 MAYSAP EVALUATION

SEGMENT: BP 004 SUB: A REGION: PWS SURVEY DATE: 5/5/91

ENVIRONMENTAL SENSITIVITIES:

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

Ecological/Constraints (see page two for details) Eagle nest, Anadromous stream

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO Signature: Rachel Dan O'Leary Date: 5/21/91

RECOMMENDATIONS:

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

COMMENTS:

INITIAL: _____

TAG: _____

FOSC: DUE TO PROXIMITY TO ANADROMOUS FISH STREAMS - RESTRICTED SUBSISTENCE ESTUARIES OIL IN FORM OF ASPHALT & MOUSSES IN SITES 2 + 4 SHALL BE REMOVED/COLLECTED - 112

TAG APPROVAL DATE: MAY 21 1991 FOSC APPROVAL DATE: 5/21/91

ADEC [Signature]
 EXXON [Signature]
 USCG [Signature]
 NOAA [Signature]

FOSC E. E. PAGE, CDR, USCG
 CHIEF OF STAFF, FOSC

→ The state will evaluate the need for further treatment

1991 MAYSAP EVALUATION

SEGMENT: BP 004 **SUB:** A **REGION:** PWS **SURVEY DATE:** 5/5/91

ENVIRONMENTAL SENSITIVITIES:

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

Ecological/Constraints (see page two for details) Eagle nest,
Anadromous stream

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)	<u>N</u>	_____	_____
Manual Pickup (Check as Req.)	_____	_____	_____
Spot Washing	_____	_____	_____
Bio-Customblen Only	_____	_____	_____
Bio-Inipol/Customblen	_____	_____	_____
Other _____	_____	_____	_____
Other _____	_____	_____	_____

COMMENTS:

INITIAL: Manually remove & fill site 4, areas C, D, E, F AP/H50R

5/10 site 3, area B; site 1, area J, K; site 2, area D, P
Man. pickup AP/H50R/MS sites 2, 3, 4

5/1 **TAG:** Site to reevaluate for rework

FOSC: _____

TAG APPROVAL DATE: _____ **FOSC APPROVAL DATE:** _____

ADEC _____ **FOSC** _____

EXXON _____

USCG _____

NOAA _____

**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.

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.

ADF&G MULTI-ASSESSMENT DATA FORM

- 1) SURVEY TYPE: BS SS 2) REGION: PWS KP, CI K, AP
- 3) METHOD: Aerial Ground Boat
- 4) DATE: 5/5/91 16) HIGH TIDE TIME: 1932 22) TEAM RECORDER: TOM Crowe
- 5) START TIME: 1650 17) HIGH TIDE HTS: 9.5 23) OBSERVERS: _____
- 6) STOP TIME: 1722 18) LOW TIDE TIMES: 1238 24) AGENCY: ADF&G
- 7) SEGMENT #: BPO04 19) LOW TIDE HTS: 1.6 25) PHOTOS TAKEN: Y N
- 8) K-UNIT: _____ 20) TIDE HT AT SURVEY: 7^{FT} ROLL #: _____ FRAMES: _____
- 9) LAT: _____ Ebb Slack Flood Slack 26) VIDEO TAKEN: Y N
- 10) LONG: _____ 21) USCG QUAD: _____ TAPE #: _____
- 11) ASC #: 226-20-16395 START: _____ STOP: _____
- 12) STREAM NAME: _____ 27) SAMPLES TAKEN? Y N
- 13) LOCATION: Point Contress SAMPLE I.D. _____
- 14) WAVE EXPOSURE: High Moderate Low _____
- 15) SHORELINE TYPE: Headland Low-lying Rocks Beach _____
- Cove Lagoon Marsh _____

28) EXTENT OF OIL

	LENGTH m	WIDTH m	M2	%	THICK cm	PEN cm	OIL TYPE
SITE 1	<u>10</u>	<u>1</u>		<u>70%</u>			<u>AP</u>
SITE 2							
SITE 3							
SITE 4							
SITE 5							

- 29) OVERALL OIL IMPACT: 33) ANADROMOUS FISH PRESENT: Y N
- H = >6m band with ≥50% oil coverage
- M = >6m band with ≤ 50% oil coverage or ≥3m to ≤6m with ≥10% oil coverage
- L = <3m band with >10% oil coverage
- VL = ≤10% oil coverage regardless of band width
- N = No oil observed
- 30) OIL IN STREAMBED: Y N 34) WILDLIFE OBSERVATION
- 31) OIL ON BEACH ADJACENT TO MOUTH: Y N
- 32) SUBSTRATE TYPE (PERCENT):
- Bedrock _____ Boulder 40% Gravel 60% Sand _____ Cobble _____ Mud/Silt _____
- 35) COMMENTS: NIO TREATMENT ONE URG BAG ASPHALT PICKED UP,
PICKUP DONE AT SITE. THIS SITE WAS SURVEYED IN A RUSH
AS WE MISSED THE TIDE (SEE TIME/TIDE) SUGGEST RE-
ASSESSMENT!

SITE #1

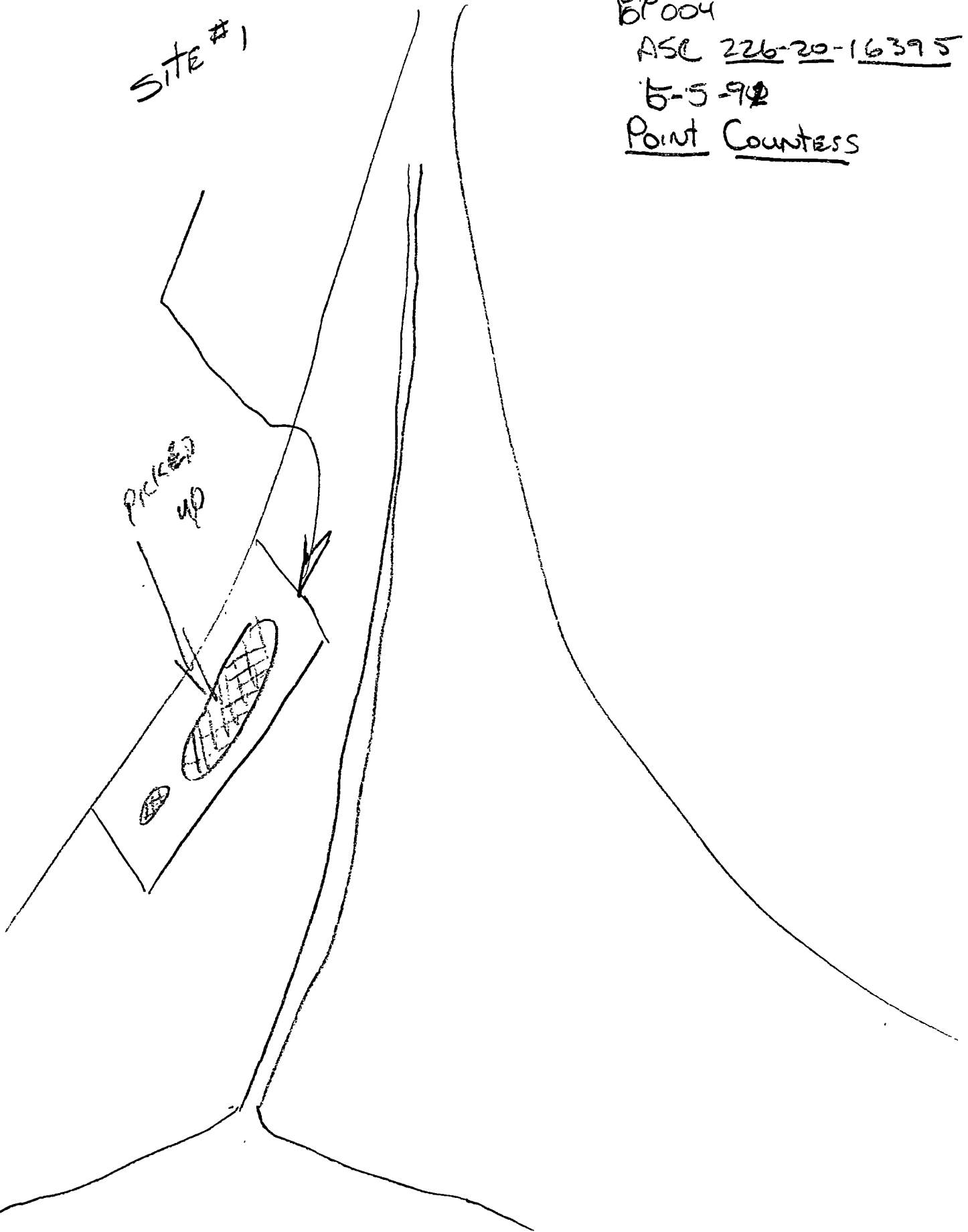
BP004

ASC 226-20-16395

5-5-94

Point Counters

PICKED
UP



MAYSAP SHORELINE OILING SUMMARY

PAGE 1 OF 2

TEAM NO. 6

OG D.I. LITTLE

BIO T. SCHROEDER

SEGMENT BP-004

ADEC A. WISEMAN / T. CROWE

LANDMANAGER C. SELANOFF for CVC

SUBDIVISION A

EXXON SCOTT NAUMAN

USCG/NOAA CWO SPURR / R. HOFF

DATE 05 / 05 / 91

TIME 14 : 30 to 17 : 40

TIDE LEVEL 3 1/2 ft. to 7 ft.

ENERGY LEVEL: ☐ H ☒ M ☒ L

SURVEYED FROM: ☒ FOOT ☐ BOAT ☐ HELO

WEATHER: ☐ SUN ☒ CLOUDS ☐ FOG ☒ RAIN ☐ SNOW

TOTAL LENGTH SHORELINE SURVEYED: _____ m

NEAR SHORE SHEEN: ☐ BR ☐ RB ☐ SL ☒ NONE

EST. OIL CATEGORY LENGTH: W _____ m M _____ m N _____ m VL _____ m NO _____ m US _____ m

L O C	SURFACE OIL CHARACTER										SURFACE SEDIMENT TYPE	SHORE SLOPE VHML	AREA		ZONE				NOTES
	AP	MS	TB	SOR	CV	CT	ST	FL	DB	NO			WIDTH m	LENGTH m	S	UI	MI	LI	
A		P									boulder	VH	0.5	1	X				80% PU moss on bd. site 3
B				P							pcg	L	0.5	5		X			heavy (most PU). site 3
C		P									rock	H	2	3	X				in moss on bedrock site 4
D	S										pg	M	10	30		X			PU " "
E	S										g (veg)	M	2	10	X				" "
F	S										pg	L	2	15		X			broken up " "
G		T									B	H	3	10	X	X			in rock crevices " "
H						T	T				BC	H	1	10	X	X			" " site 1
J				T							pg	L	1	20		X			PU site 1
K	T				T						pcg	M	1	15	X	X			site 1
L					S						b rock	M	0.1	0.1	X	X			SITE 2 site 2
M					S						b rock	M	0.5	1		X			" "
N	P												1	2		X			PU (all) " "
O	S			SH							pg	M	0.5	20		X			Broken up " "
P	B			BH							pgc	L	0.1	0.1			X		Broken up " "
Q											rock	HV	0.5	0.5		X			" "

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- _____ FRAMES _____

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER							OILED ZONE cm-cm	CLEAN BELOW Y/N	H2O LEVEL (cm)	SHEEN COLOR B R S N	PIT ZONE				SURFACE-SUBSURFACE SEDIMENTS	NOTES
		OP	HOR	MOR	LOR	OF	TR	NO					S	UI	MI	LI		
1	20							X	—	Y	10	N			X		gc/g	site 3
2	25							X	—	Y	—	N			X		pg/sg	" "
3	25							X	—	Y	—	N		X			gp/gs	site 4
4	30							X	—	Y	—	N			X		pc/gp	" "
5	20							X	—	Y	—	N			X		p/gsp	" "
6	15							X	—	Y	—	N			X		gp/gp	site 1
7	25							X	—	Y	—	N		X			gp-gs	" "
8	25							X	—	Y	—	N			X		p-gp	" "
9	30							X	—	Y	—	N		X			pg-gp	" "

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

OG COMMENTS:

Surface oil was found in very sporadic patches, usually in the LITZ and occasionally in the SUTZ., however, much was picked up or broken up in situ, leaving (L) SOR at most. No oiled sediments were found in the MITZ which were not treated. By wading and puddling LITZ sediments underwater, it is unlikely that oil is present there because no oil sheens were seen.

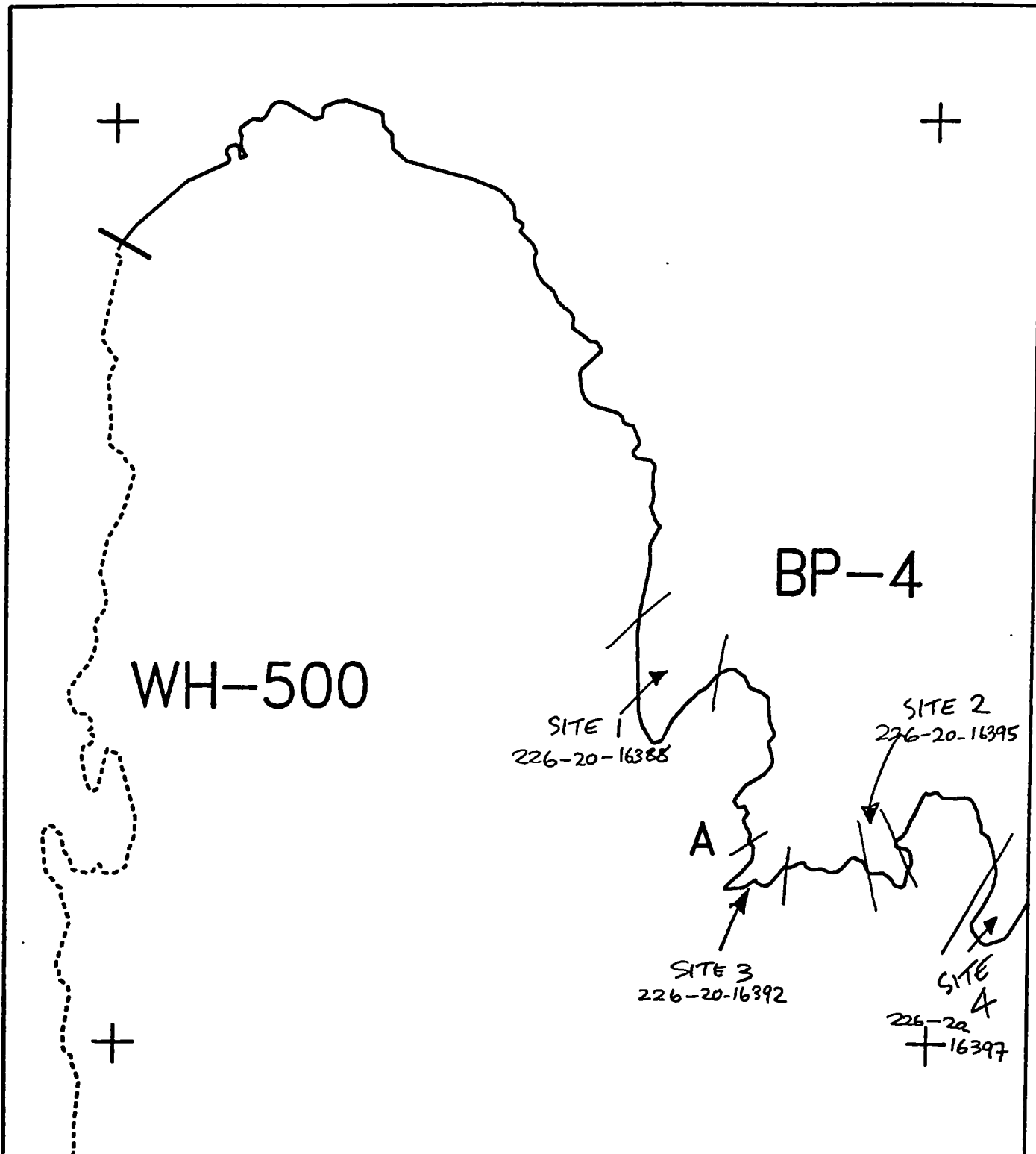
No subsurface oil was observed in a total of eleven pits.

PAGE 2 OF 2

DATE 05 / 05 / 91

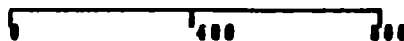
SHEEN COLOR: B = BROWN; R = RAINBOW; S = SILVER; N = NONE

OG COMMENTS:



BP004 A

METERS



AK State Plane Zone 4
NAD83

Subdivision Field Map

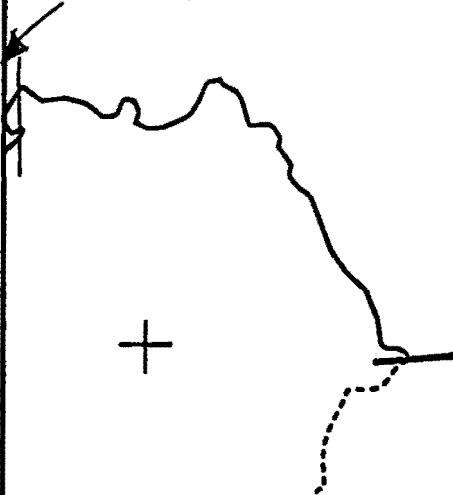
Map Key: PWSBP004Aa

Name: DAVID LITTLE

Date: 05/05/91

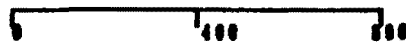


PART of site 4



BP004 A

METERS



AK State Plane Zone 4
NAD83

Subdivision Field Map

Map Key: PVSBP004Ab

Name: DAVID LITTLE

Date: 05/05/91

SITE 2 226-20-16395

BP-004-A

OG. map

05/05/91

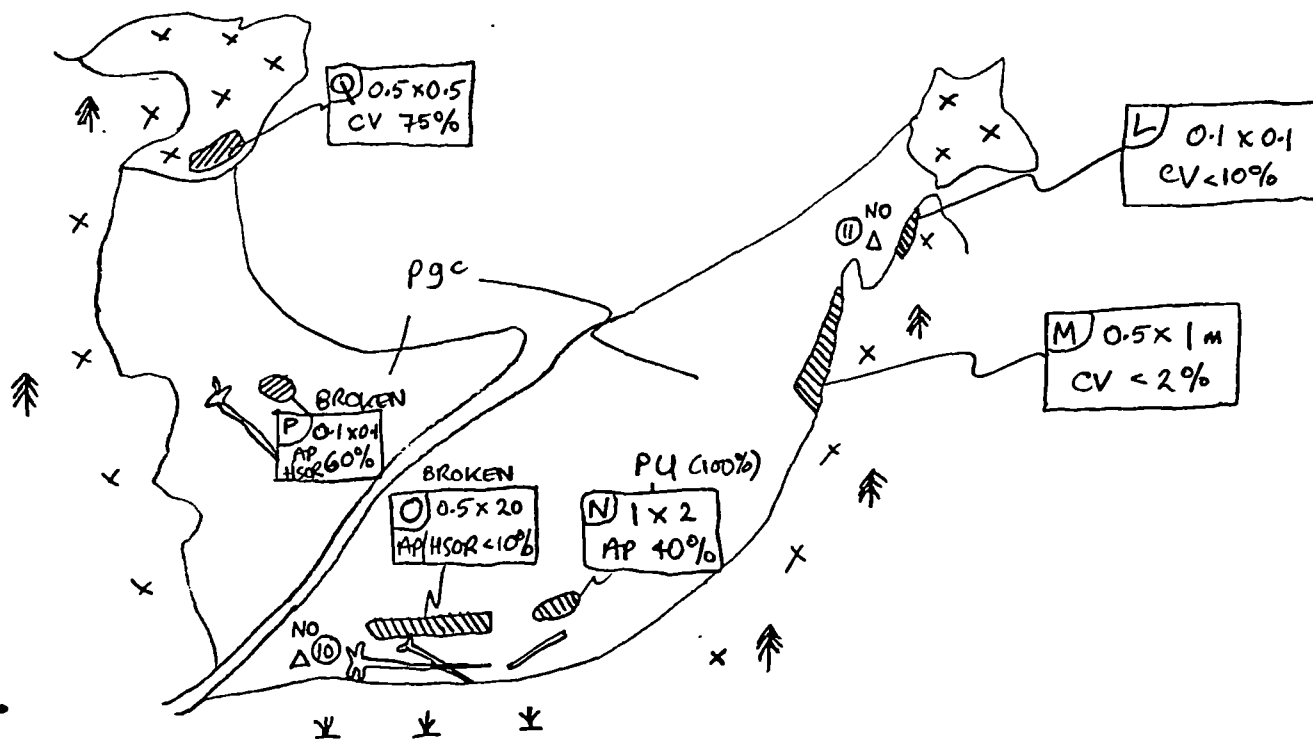
D.J. Little

1700-1740

[Continued from
BP-004 sites 1, 3 & 4.]

0 15m

KNIGHT ISLAND
PASSAGE



ANADROMOUS
STREAM
226-20-16395

PIT # To oil clean below sheen H₂O Sds zone

PIT #	To oil	clean	below	sheen	H ₂ O	Sds	zone
⑩	20	NO	4	N	—	g-g	SUTZ
⑪	25	NO	4	N	—	pg-gpm	UITZ

MAYSAP BIOLOGICAL SUMMARY FORM

TEAM # 6
 DATE 5/5/91
 SEGMENT # BP-004
 TIDAL HEIGHT(Range) +6 1/4 to +7 ft
 SUBDIVISION A (Site 2)
 BIOLOGIST T.R. Schroeder
 SEA STATE calm
 WIND SPEED/DIRECTION calm
 PHOTOGRAPHS: ROLL #
 FRAME #

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

Tides were high when we reached this beach but again water clarity allowed observation down to about the zero tide level. Only one mussel bed was observed along the eastern shoreline. Main portion of beach was loose gravel and pebbles with little algal growth except in the anadromous stream bed where filamentous algae was very thick. Most oil washed was broken up or picked up.

WILDLIFE OBSERVATIONS

TO BE COMPLETED IN ALL SUBDIVISIONS

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

LAND MAMMALS

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

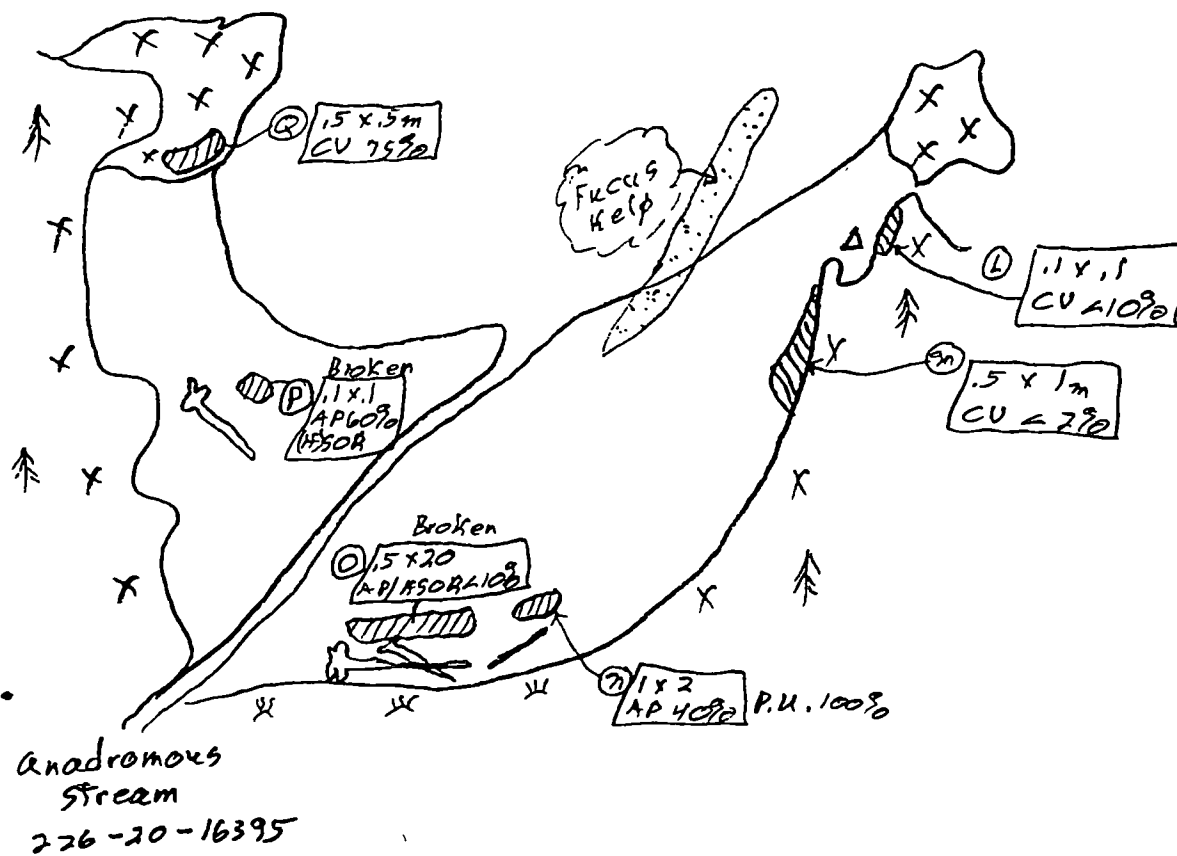
Shoreline subdivision map showing important biological features attached.

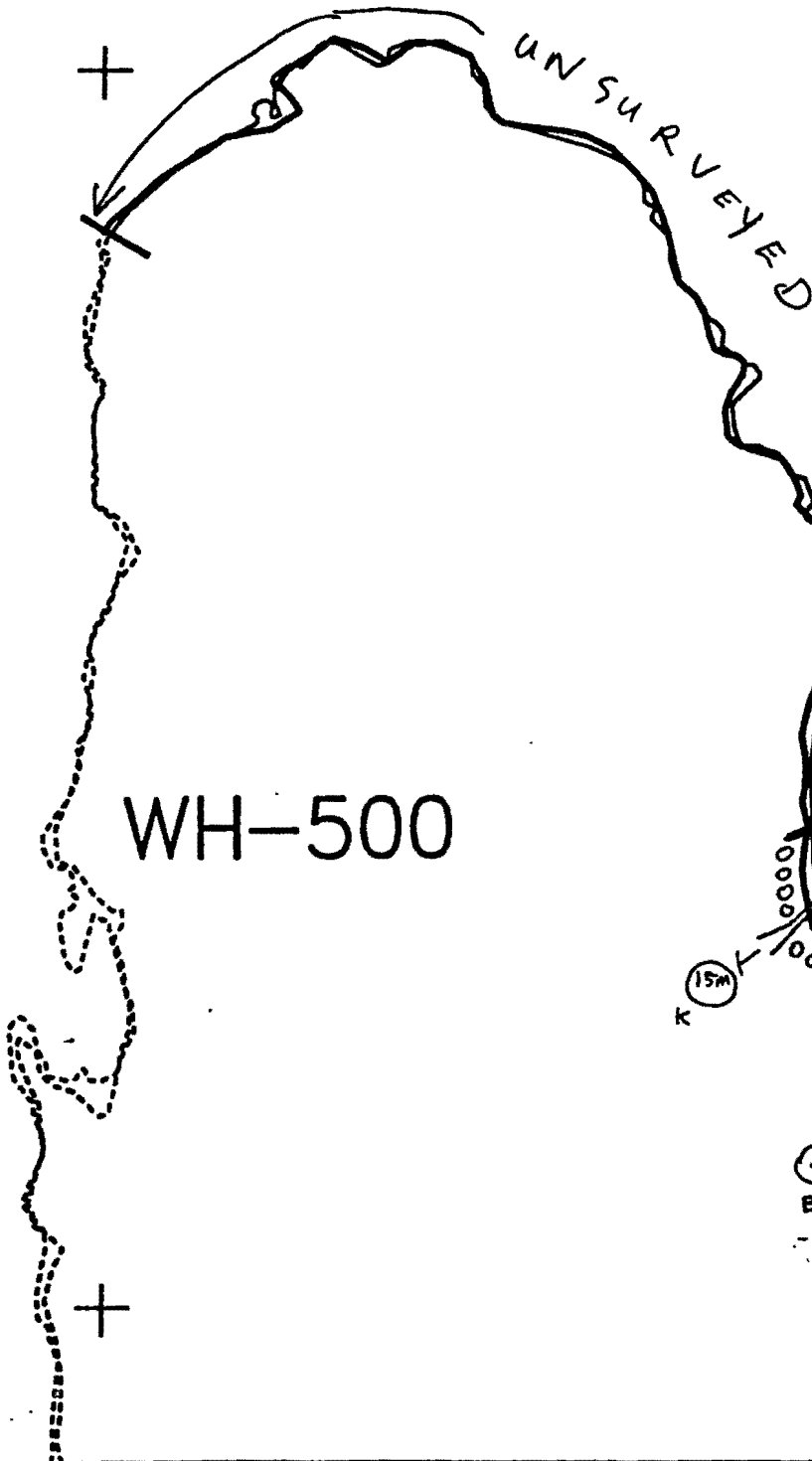
Site 2



BP-004-A 5/5/91
Bio. Map(42) T.R. Schroeder
1700 - 1740

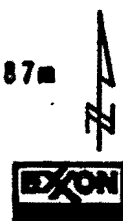
0 15
meters





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

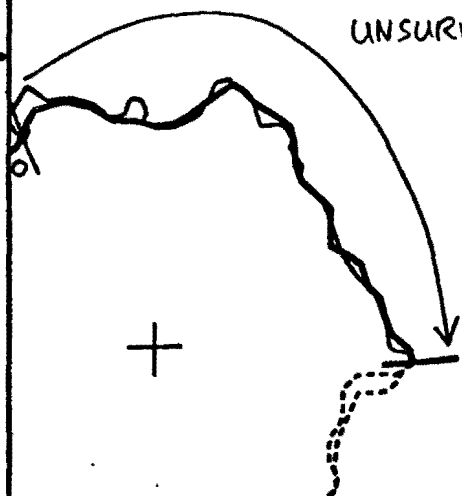
BP004 A
 ADEC Subsegment Length: 8287m
 METERS
 0 100 200
 AK State Plane Zone 4
 phg88400



Subdivision Field Map
 Map Key: PWSBP004Aa
 Name: DAVID LITTLE
 Date: 05/05/91
 Date Entered:



UNSURVEYED



XXXX
////

TTTT
0000

Wide
Medium
Narrow
Very Light
No Oil

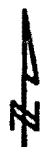
BP004 A

ADEC Subsegment Length: 8287m

METERS



AK State Plane Zone 4
ph004ab



Subdivision Field Map

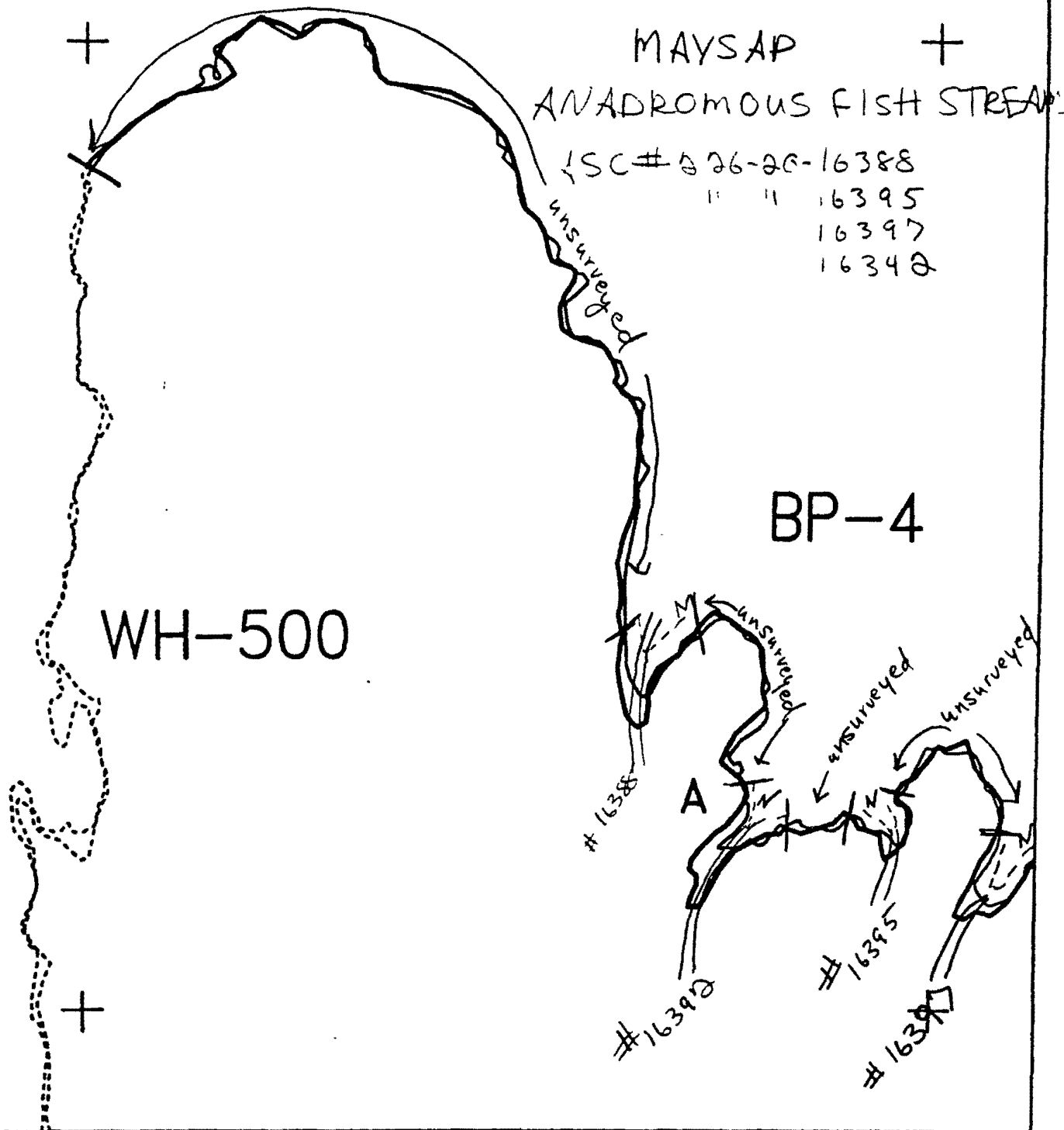
Map Key: PWSBP004Ab

Name: DAVID LITTLE

Date: 05/05/91

Date Entered:

ADEC comments cont...



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

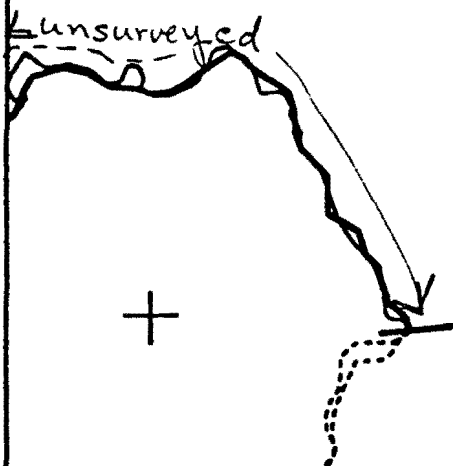
BP004 A
 ADEC Subsegment Length: 8287m
 METERS
 0 400 800
 AK State Plane Zone 4
 pp004aa

Subdivision Field Map
 Map Key: PWSBP004Aa
 Name: A. Weseman
 Date: 5/5/91
 Date Entered:



ADEC Comments cont ..

MAYSAP



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

BP004 A

ADEC Subsegment Length: 8207m
METERS

AK State Plane Zone 4
pbp004ab



Subdivision Field Map

Map Key: PWSBP004Ab

Name: A. Weseman

Date: 5/5/91

Date Entered:



MAYSAP FIELD SHORELINE COMMENT SHEET

TEAM NO. 6 SEGMENT BP 004 SUBDIVISION A DATE 5/5/91

ADEC/ADF46

NAME Aimee WesemanSIGNATURE Aimee Weseman

☐ NTR ☒ Treatment Recommended. 4 Anad fish streams Resource Uses-Commercial Fishing & Recreation. Survey was rushed due to incoming tide & full extent of oiling may not have been documented.

ASC# 226-20-16397-site 4 = This beach stream area still contains AP/Hsor deposits which should be manually removed & tilled. Areas of concern are in the vicinity of sites C, D, E & F. Some PU occurred but not enough.

ASC# 226-20-16395-site 2 = due to short survey & injury, ADF46 monitor unable to determine extent of oiling & how much was removed. A quick inspection of area with removal of AP sediments & or tilling is in order.

EXXON

NAME Scott A. NaumanSIGNATURE Scott A. Nauman☒ NTR

least oil - already on TAG.

All four streams on this subdivision were surveyed. No subsurface oil was found. AP/SOR was either picked up or broken up by the survey team. This subdivision and the four streams are in very good shape - no further work is warranted.

LANDMANAGER

NAME

OF

SIGNATURE

☐ NTRDATA entry note
TREAT = U (undetermined)

comments: (no land manager entry or form)

Other streamers:

2262016397

392

388

USCG/NOAA

NAME CWO SPURR / R. HoffSIGNATURE R. Hoff / Rebecca Hoff☒ NTR

This segment with 4 anadromous streams had little remaining oil. Some asphalt patches were found, and these were mostly picked up or broken apart. The small areas of remaining coat or oil in crevices of boulders is largely inaccessible. The segment requires no further treatment.

TEAM NO. 6 SEGMENT BP-04 SUBDIVISION _____ DATE 5/5/91

ADEC

NAME _____ SIGNATURE _____

☐ NTR

!
!

EXXON

NAME _____ SIGNATURE _____

☐ NTR

LANDMANAGER

NAME CHARLES SELANDOFF OF Chenega Bay SIGNATURE Charles Selandoff

☐ NTR Treatment recommended

A lot of oily debris, rocks and pebbles. This area can be manually worked over with shovels, rakes and tilled by hand. Also this area is consistantly oiled in spots but with a lot of manual work this area can be greatly improved. Heavily used subsistace area.

USCG/NOAA

NAME _____ SIGNATURE _____

☐ NTR

5/13/91

Discrepancy

4

3844

226-26-16395

OG site 2

Review

HAB

Site 1

10 * 1

70%

OG

corresp. site? (See map) assume N

1 * 2

40%

Suggest re-assessment
(finished survey).

1991 STREAM FILE LOG HABITAT

STREAM CATALOG # : 226-20-16395
STREAM NAME : Baimbridge Passage

LOCATION : P.W.S.
SEGMENT : BP-004

[illegible]

2) REGION: PWS KP, CI K, AP

BP004A

22) TEAM RECORDER: M. Fink

23) OBSERVERS: Kusada, Middleton

24) AGENCY: F-G Westman

25) PHOTOS TAKEN: Y ~~N~~

ROLL #: FRAMES:

26) VIDEO TAKEN: Y 

Tape # _____

START: STOP:

27) SAMPLES TAKEN? Y N

SAMPLE I.D.

28) EXTENT OF OIL

	LENGTH m	WIDTH m	M2	%	THICK cm	PEN cm	OIL TYPE
SITE 1A	5	2	10	<10	—	—	H50J2
SITE 2B	0.5	0.5	0.25	—	—	—	TR
SITE 3							
SITE 4							
SITE 5							

33) ANADROMOUS FISH PRESENT: Y N

H = >6m band with >50% oil coverage

M = >6m band with $\leq 50\%$ oil coverage or >3m to $\leq 6\text{m}$ with $\geq 10\%$ oil coverage

L = <3m band with >10% oil coverage

VL = <10% oil coverage regardless of band width

N = No oil observed

34) WILDLIFE OBSERVATION

Species	Number
---------	--------

30) OIL IN STREAMBED: Y (N)

31) OIL ON BEACH ADJACENT TO MOUTH: (Y) N

32) SUBSTRATE TYPE (PERCENT):

Bedrock ✓ Boulder Gravel ✓ Sand ✓ Cobble ✓ Mud/Silt ✓

35) COMMENTS: The stream area looks good — a good job of treatment.

Removed one geobag of oiled sediments from areas A+B.

No reassessment recommended in 1992.

* Survey focused on documented oiling treated in 1991.

36) PHOTOLOG

FRAME(S)

DESCRIPTION

▲ = Sample Taken
 2/ = Photo Frame # and
 Shot Direction

A:EDDATFO
 April 3, 1991

PAGE 1 OF 3

16397, 16388

SEGMENT BP004

SUBDIVISION A

DATE 7 / 30 / 91

TIDE LEVEL + 6 ft. to +10 ft.

ENERGY LEVEL: ☐ H ☐ M ☒ L

SURVEYED FROM: ☒ FOOT ☐ BOAT ☐ HELO

WEATHER: ☐ SUN ☒ CLOUDS ☐ FOG ☐ RAIN ☐ SNOW

3:30, to 3:40

TOTAL LENGTH SHORELINE SURVEYED: _____ m NEAR SHORE SHEEN: ☐ BR ☐ RB ☐ SL ☒ NONE

EST. OIL CATEGORY LENGTH: W_____m M_____m N_____m VL_____m NO_____m US_____m

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 #

FRAMES

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

OG COMMENTS: 226-20-16395 → A good job on the treatment! 226-20-16345 looks good.

No pink observed. Removed one geobag of oiled sediments.

226-2016397 → Pinks observed. Tilled AP/HOR where located. More, undoubtedly under Focus wash line. No. reassessment recommended in 1992.

226-20-163388 → Tide too high to survey.
~200 pinker seen near the mouth.

NOT
Recommended
for
reassessment
in
1991.

* Survey focused on documented oiling treated in 1991.

1991 Post-Treatment
Assessment

SITE 2 226-20-16395

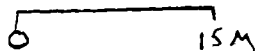


BP-004-A

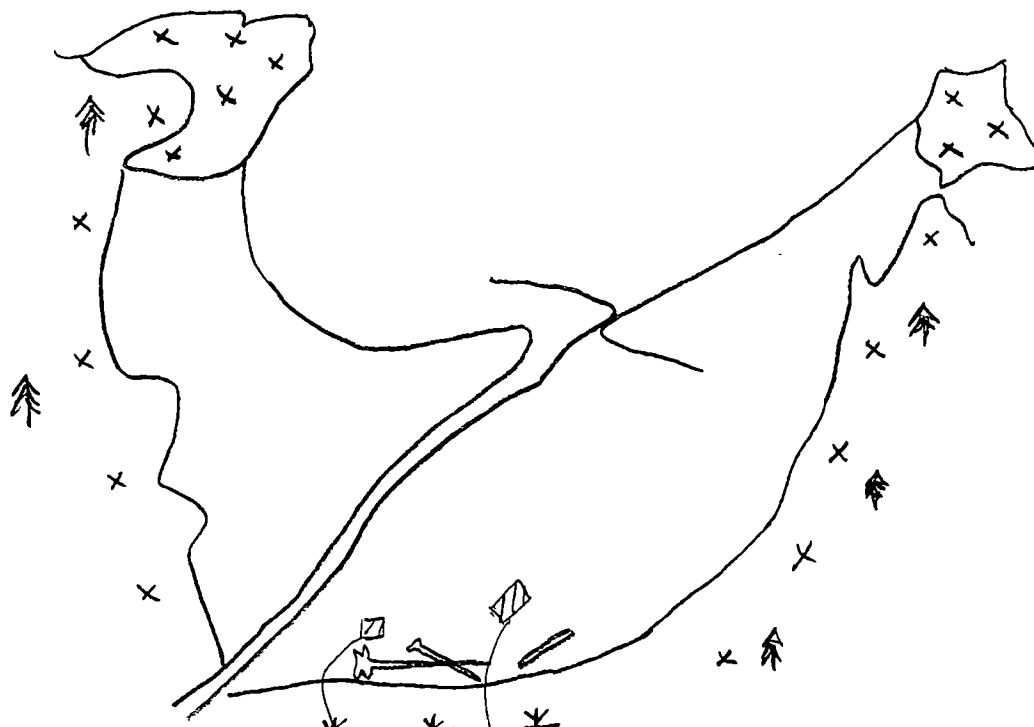
7/30/91

1:47-2:06

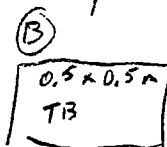
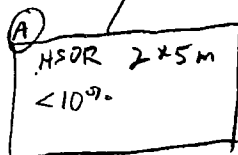
FINK, ADF+G



KNIGHT ISLAND
PASSAGE



ANADROMOUS
STREAM
226-20-16395



PIT#TD oil clean below sheer H₂O sed's zone

①

②

③

EXXON Valdez Oilspill Cleanup

Anadromous Fish Stream Authorization

Date July 5, 1991

EXXON Authorized Representative Jon Garrechi

Shoreline Segment BP004A

Anadromous Fish Stream Number(s) 226-20-16395

Approved Cleanup Techniques Manual Removal of oiled
sediments, mechanical tilling with tide and recovery
of oil

Approved Cleanup Period May 15 - July 10, 1991

If extension is needed, it can be issued with ADFG authorization.

Alaska Department of Fish and Game

Aimee Weseman
Authorized Officer

Jon Garrechi
Permittee's Signature

EXXON Valdez Oilspill Cleanup

Anadromous Fish Stream Authorization

Date July 5, 1991

EXXON Authorized Representative _____

Shoreline Segment BP004A

Anadromous Fish Stream Number(s) 26-20-16395

Approved Cleanup Techniques Manual removal of oiled

sediments, increased filling of tide and recovery

of oil

Approved Cleanup Period May 15 - July 10, 1991

IF not successful, techniques used with AEFIC authorization

Alaska Department of Fish and Game

Aimee Weisman
Authorized Officer

[Signature]
Permittee's Signature

ADF&G MULTI-ASSESSMENT DATA FORM

- 1) SURVEY TYPE: BS (SS) 2) REGION: PWS KP, CI K, AP
- 3) METHOD: Aerial (Ground) Boat
- 4) DATE: 5/5/91 16) HIGH TIDE TIME: 1932 22) TEAM RECORDER: Tom Crowe
- 5) START TIME: 1650 17) HIGH TIDE HTS: 9.5 23) OBSERVERS: _____
- 6) STOP TIME: 1722 18) LOW TIDE TIMES: 1238 24) AGENCY: ADF&G
- 7) SEGMENT #: BPO04 19) LOW TIDE HTS: 1.6 25) PHOTOS TAKEN: Y (N)
- 8) K-UNIT: _____ 20) TIDE HT AT SURVEY: 7^{FT} ROLL #: _____ FRAMES: _____
- 9) LAT: _____ Ebb Slack Flood Slack 26) VIDEO TAKEN: Y (N)
- 10) LONG: _____ 21) USCG QUAD: _____ TAPE # _____
- 11) ASC #: 226-20-16395 START: _____ STOP: _____
- 12) STREAM NAME: _____ 27) SAMPLES TAKEN? Y (N)
- 13) LOCATION: Point Contress SAMPLE I.D. _____
- 14) WAVE EXPOSURE: High Moderate (Low) _____
- 15) SHORELINE TYPE: Headland Low-lying Rocks (Beach) _____
- (Cove) Lagoon Marsh _____

28) EXTENT OF OIL

	LENGTH m	WIDTH m	M2	%	THICK cm	PEN cm	OIL TYPE
SITE 1	10	1		70%			AP
SITE 2							
SITE 3							
SITE 4							
SITE 5							

- 29) OVERALL OIL IMPACT: 33) ANADROMOUS FISH PRESENT: Y (N)
- H = >6m band with $\geq 50\%$ oil coverage
- M = >6m band with $\leq 50\%$ oil coverage or $\geq 3m$ to $\leq 6m$ with $\geq 10\%$ oil coverage
- L = <3m band with $> 10\%$ oil coverage
- (VL) = $\leq 10\%$ oil coverage regardless of band width
- N = No oil observed
- 30) OIL IN STREAMBED: Y (N)
- 31) OIL ON BEACH ADJACENT TO MOUTH: Y (N)
- 32) SUBSTRATE TYPE (PERCENT):
- Bedrock _____ Boulder 40% Gravel 60% Sand _____ Cobble _____ Mud/Silt _____
- 33) WILDLIFE OBSERVATION
- | Species | Number |
|-----------|--------|
| sea otter | 1 |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
- 35) COMMENTS: NO TREATMENT ONE LRG BAG ASPHALT PICKED UP, pickup none at site. THIS SITE WAS SURVEYED IN A RUSH AS WE MISSED THE TIDE (SEE TIME/TIDE) SUGGEST RE-ASSESSMENT!

SITE #1

BP004

ASC 226-20-16395

6-5-92

Point Counters

Picked
up



MAYSAP SHORELINE OILING SUMMARY

PAGE 1 OF 2

TEAM NO. 6

OG D.I. LITTLE

BIO T. SCHROEDER

SEGMENT BP-004

ADEC A. WESEMAN / T. CROWE

LANDMANAGER C. SELANOFF for CVC

SUBDIVISION A

EXXON SCOTT NAUMAN

USCG/NOAA CWO SPURR / R. HOFF

DATE 05 / 05 / 91

TIME 14:30 to 17:40

TIDE LEVEL 3 1/2 ft. to 7 ft.

ENERGY LEVEL: ☐ H ☒ M ☒ L

SURVEYED FROM: ☒ FOOT ☐ BOAT ☐ HELO

WEATHER: ☐ SUN ☒ CLOUDS ☐ FOG ☒ RAIN ☐ SNOW

TOTAL LENGTH SHORELINE SURVEYED: _____ m

NEAR SHORE SHEEN: ☐ BR ☐ RB ☐ SL ☒ NONE

EST. OIL CATEGORY LENGTH: W _____ m M _____ m N _____ m VL _____ m NO _____ m US _____ m

L O C	SURFACE OIL CHARACTER										SURFACE SEDIMENT TYPE	SHORE SLOPE VHML	AREA		ZONE				NOTES
	AP	MS	TB	SOR	CV	CT	ST	FL	DB	NO			WIDTH m	LENGTH m	S	UI	MI	LI	
A		P									boulder	VH	0.5	1	X				80% PU moss on bd.
B				P							pcg	L	0.5	5		X			heavy (most PU). site 3
C		P									rock	H	2	3	X				in moss on bedrock site 4
D	S										pg	M	10	30		X			PU " "
E	S										g (neg)	M	2	10	X				" "
F	S										pg	L	2	15		X			broken up " "
G		T									B	H	3	10	X	X			in rock crevices " "
H					T	T					BC	H	1	10	X	X			" " site 1
J				T							pg	L	1	20		X			PU " site 1
K	T				T						pcg	M	1	15	X	X			site 1
L					S						b rock	M	0.1	0.1	X	X			SITE 2 site 2
M					S						b rock	M	0.5	1		X			" "
N	P												1	2		X			PU (all) " "
O	S			SH							pg	M	0.5	20		X			Broken up " "
P	B			BH							pgc	L	0.1	0.1			X		Broken up " "
Q											rock	HV	0.5	0.5		X			" "

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-

FRAMES

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER							OILED ZONE cm-cm	CLEAN BELOW Y/N	H2O LEVEL (cm)	SHEEN COLOR B R S N	PIT ZONE				SURFACE-SUBSURFACE SEDIMENTS	NOTES
		OP	HOR	MOR	LOR	OF	TR	NO					S	UI	MI	LI		
1	20							X	—	Y	10	N			X		gc/g	site 3
2	25							X	—	Y	—	N			X		pg/sq	" "
3	25							X	—	Y	—	N		X			gp/gs	site 4
4	30							X	—	Y	—	N			X		pc/gp	" "
5	20							X	—	Y	—	N			X		p/gsp	" "
6	15							X	—	Y	—	N			X		gp/gp	site 1
7	25							X	—	Y	—	N		X			gp-gs	" "
8	25							X	—	Y	—	N			X		p-gp	" "
9	30							X	—	Y	—	N		X			pg-gp	" "

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

OG COMMENTS:

Surface oil was found in very sporadic patches, usually in the LITZ and occasionally in the SUTZ., however, much was picked up or broken up in situ, leaving (L) SOR at most. No oiled sediments were found in the MITZ which were not treated. By wading and puddling LITZ sediments underwater, it is unlikely that oil is present there because no oil sheens were seen.

No subsurface oil was observed in a total of eleven pits.

MAYSAP SHORELINE OILING SUMMARY (cont.)

PAGE 2 OF 2

TEAM NO. 6

SEGMENT BP-004

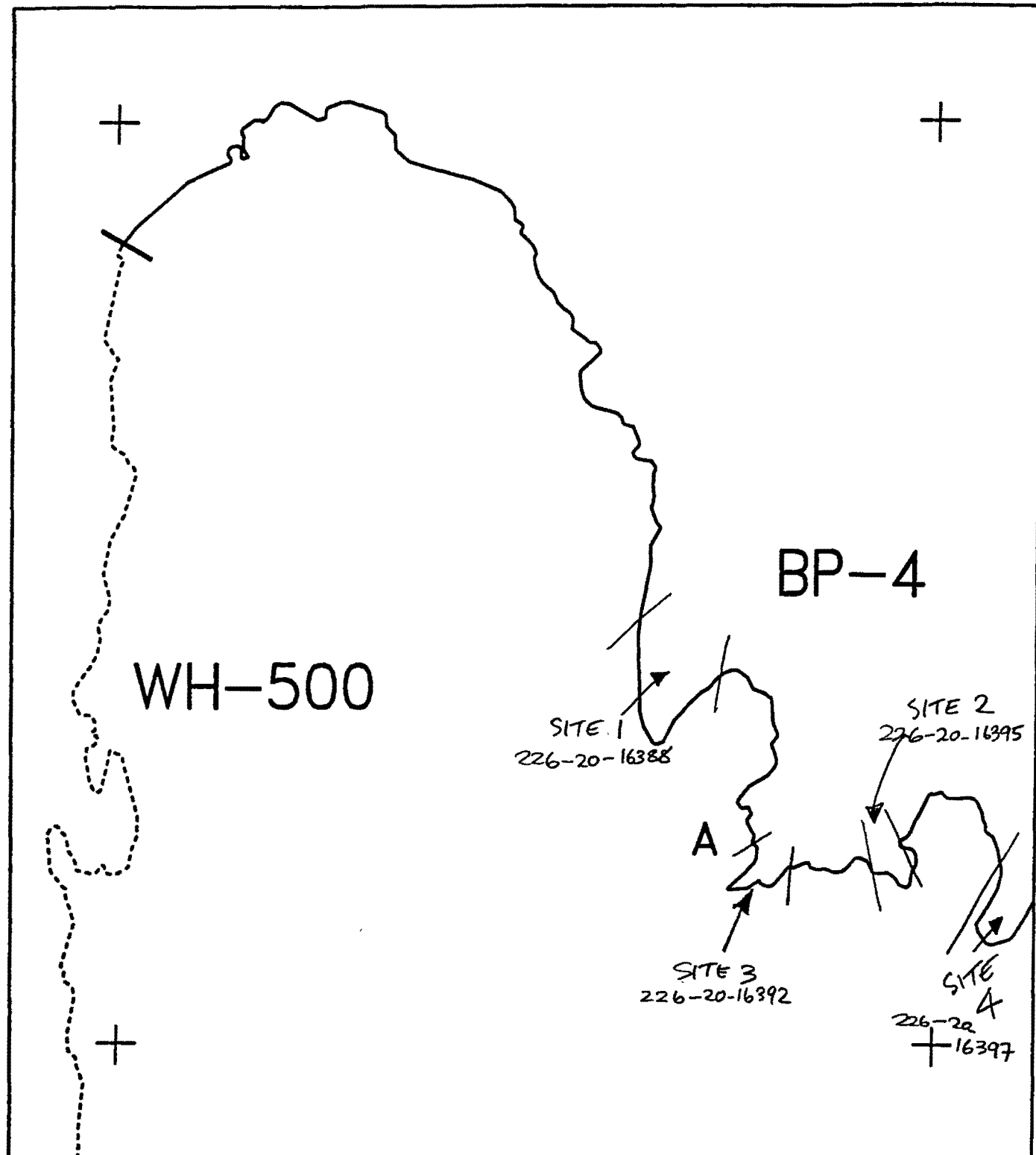
SUBDIVISION A

DATE 05 / 05 / 91

[illegible]

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

OG COMMENTS:



BP004 A

METERS



AK State Plane Zone 4
phys0400

Subdivision Field Map

Map Key: PWSBP004Aa

Name: DAVID LITTLE

Date: 05/05/91

SITE 2

226-20-16395

BP-004-A

OG. map

05/05/91

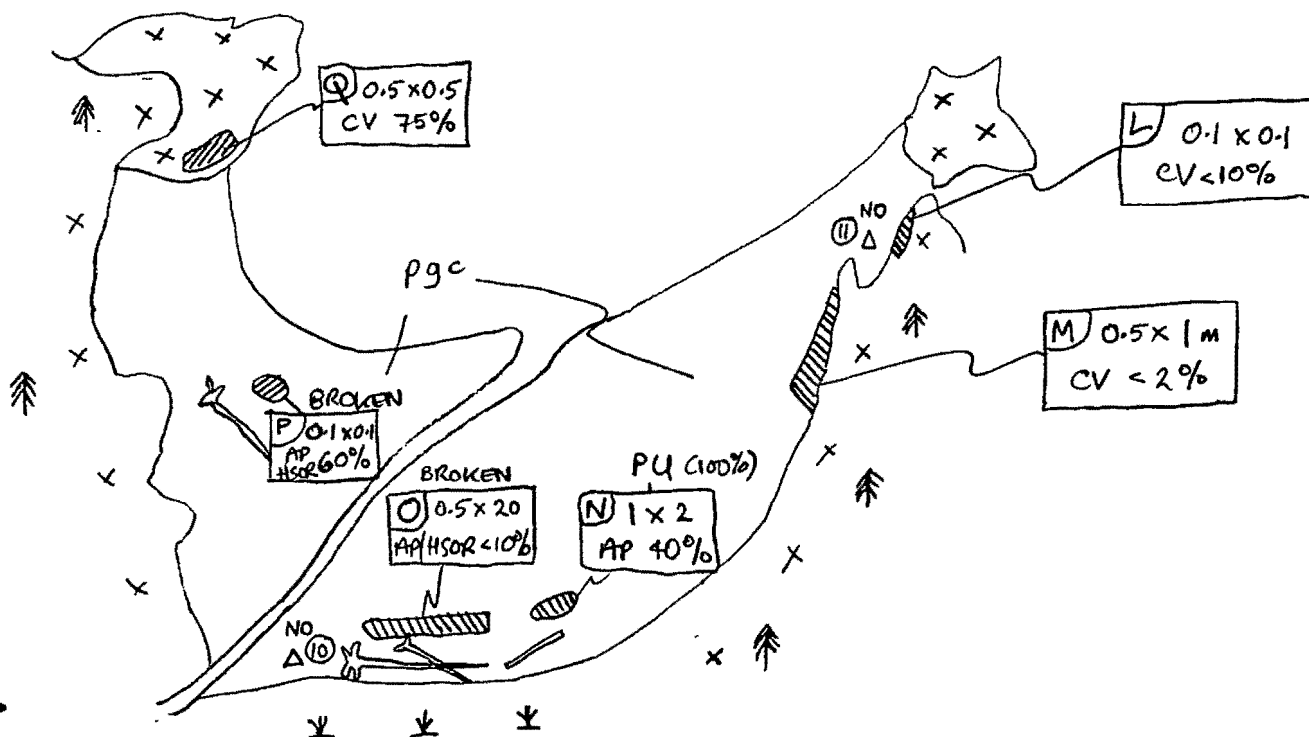
D.I. Little

1700-1740

[Continued from
BP-004 sites 1, 3 & 4.]

0 15 M

KNIGHT ISLAND
PASSAGE



ANADROMOUS
STREAM

226-20-16395

PIT # To oil clean below sheen H₂O Seds zone

⑩	20	NO	4	N	—	g-g	SUT2
⑪	25	NO	4	N	—	pg-gpm	UIT2

MAYSAP BIOLOGICAL SUMMARY FORM

TEAM # 6 DATE 5/5/91
 SEGMENT # BP-004 TIDAL HEIGHT(Range) +6 1/4 to +7 ft
 SUBDIVISION A (Site 2) BIOLOGIST T.R. Schroeder
 SEA STATE calm WIND SPEED/DIRECTION calm
 PHOTOGRAPHS: ROLL # FRAME #

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

Tides were high when we reached this beach but again water clarity allowed observation down to about the zero tide level. Only one mussel bed was observed along the eastern shoreline. Main portion of beach was loose gravel and rubble with little algal growth except in the anadromous stream bed where filamentous algae was very thick. Most oil coated was broken up or picked up.

WILDLIFE OBSERVATIONS

TO BE COMPLETED IN ALL SUBDIVISIONS

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

MARINE MAMMALS	# OBSERVED	LAND MAMMALS SPECIES	# OBSERVED
Sea Otters	1		
Pinnipeds(specify)			
Whales(specify)			

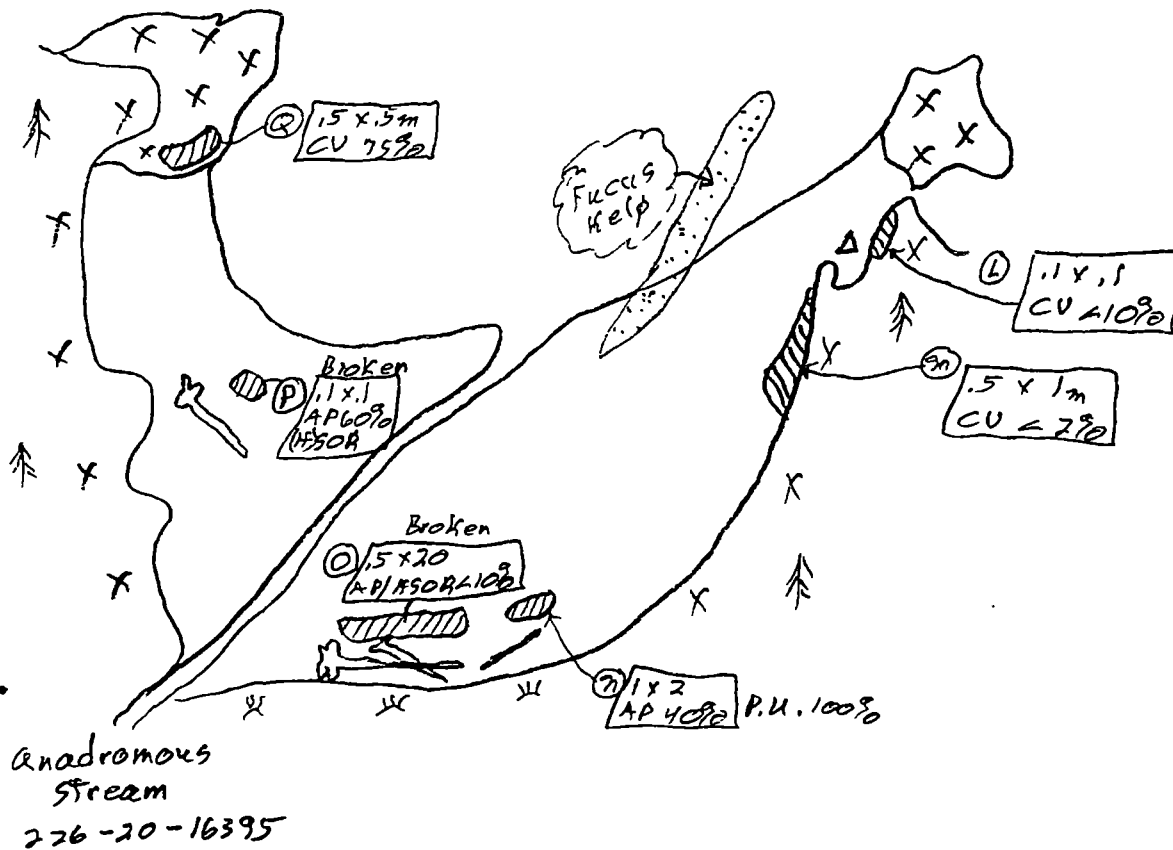
Shoreline subdivision map showing important biological features attached.

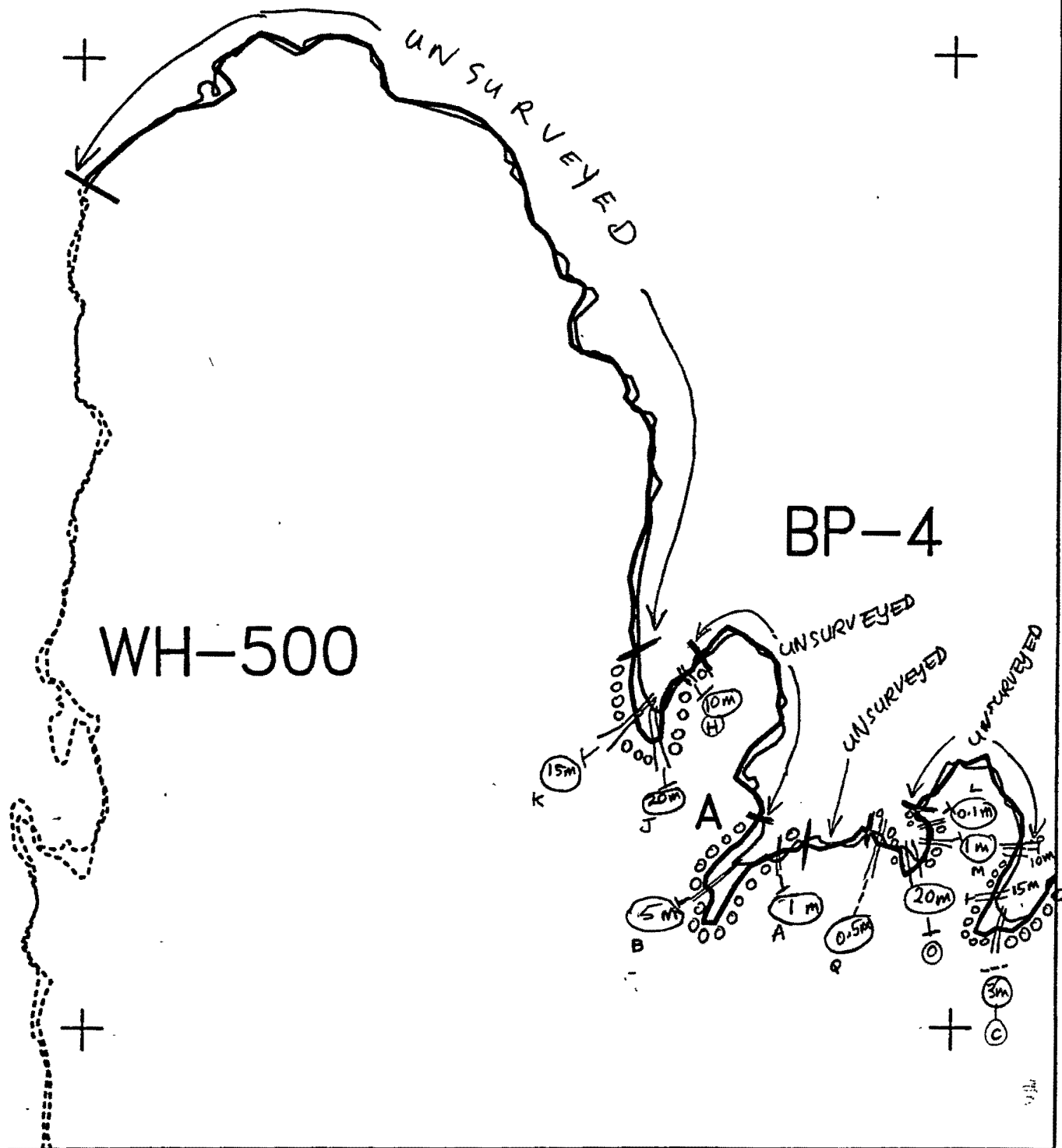
Site 2



BP-004-A 5/5/91
Bio. Map (#2) T.R. Schroeder
1700 - 1740

0 15
meters





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

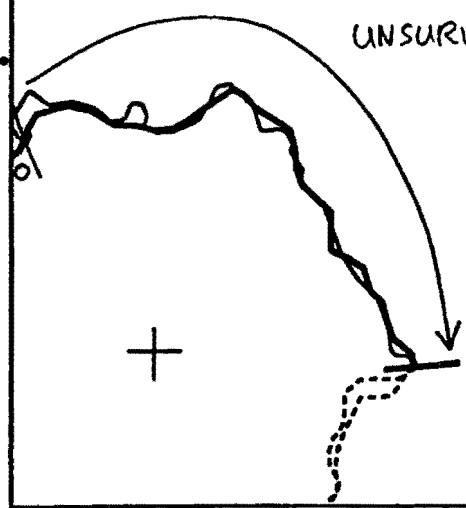
BP004 A
 ADEC Subsegment Length: 8287m
 METERS
 0 100 200
 AK State Plane Zone 4
 ph00400

Subdivision Field Map
 Map Key: PWSBP004Aa
 Name: DAVID LITTLE
 Date: 05/05/91
 Date Entered:



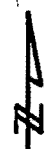


UNSURVEYED



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

BP004 A
ADEC Subsegment Length: 8287m
METERS
AK State Plane Zone 4
phy804ab



Subdivision Field Map
Map Key: PWSBP004Ab
Name: DAVID LITTLE
Date: 05/05/91
Date Entered:

MAYSAP FIELD SHORELINE COMMENT SHEET

TEAM NO. 6 SEGMENT BP 004 SUBDIVISION A DATE 5/5/91

ADEC/ADFG

NAME Aimee Weseman

SIGNATURE Aimee Weseman

☒ Treatment recommended. 4 Anad fish streams Resource Uses - Commercial Fishing & Recreation.
☐ NTR Survey was rushed due to incoming tide & full extent of oiling may not have been documented.

ASC# 226-20-16397-site 4 = This beach stream area still contains AP/Hsok deposits which should be manually removed & tilled. Areas of concern are in the vicinity of sites C, D, E & F. Some PU occurred but not enough.

ASC# 226-20-16395-site 2 = due to short survey & injury, ADFG monitor unable to determine extent of oiling & how much was removed. A quick inspection of area with removal of AP sediments & or tilling is in order.

EXXON

NAME Scott A. Nauman

SIGNATURE Scott A. Nauman

☒ NTR

All four streams on this subdivision were surveyed. No subsurface oil was found. AP/SOR was either picked up or broken up by the survey team. This subdivision and the four streams are in very good shape - no further work is warranted.

LANDMANAGER

NAME _____ OF _____

SIGNATURE _____

☐ NTR

USCG/NOAA

NAME CWO SPURR / R. Hoff

SIGNATURE R. Hoff / Rebecca Hoff

☒ NTR This segment with 4 anadromous streams had little remaining oil. Some asphalt patches were found, and these were mostly picked up or broken apart. The small areas of remaining coat or oil in crevices of boulders is largely inaccessible. The segment requires no further treatment.

TEAM NO. 6 SEGMENT BP-04 SUBDIVISION _____ DATE 5/5/91

ADEC

NAME _____ SIGNATURE _____

☐ NTR

EXXON

NAME _____ SIGNATURE _____

☐ NTR

LANDMANAGER

NAME CHARLES SELANOFF OF Chenega Bay SIGNATURE Charles Selanoff

☐ NTR treatment recommended

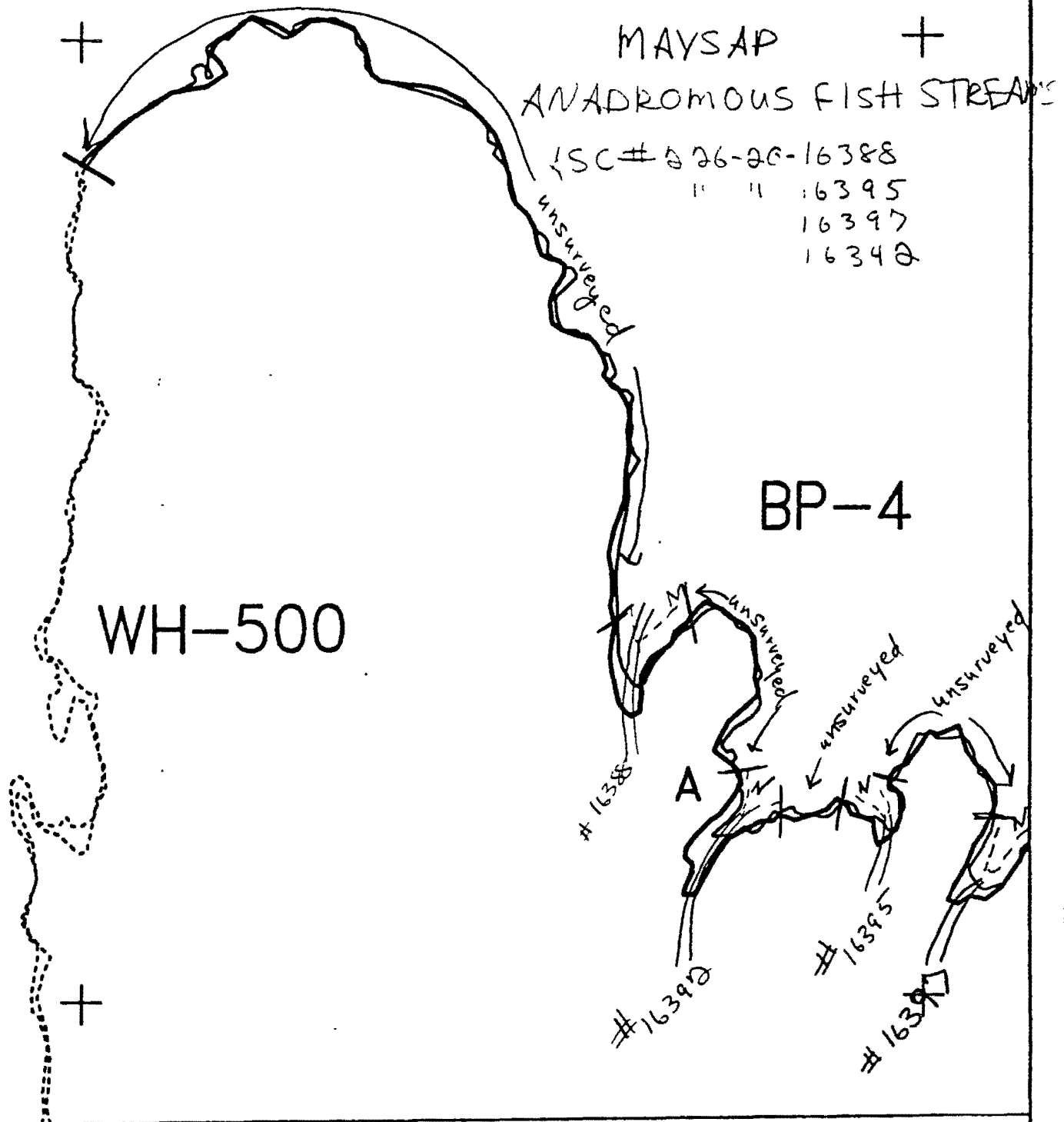
a lot of oily debris, rocks and pebbles. This area can be manually worked over with shovels, rakes and tilled by hand. Also this area is consistantly oiled in spots but with a lot of manual work this area can be greatly improved. Heavily used subsistace area.

USCG/NOAA

NAME _____ SIGNATURE _____

☐ NTR

ADEC comments cont...



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

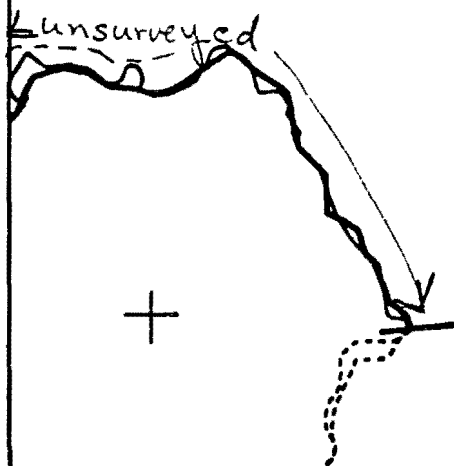
BP004 A
 ADEC Subsegment Length: 8287m
 METERS
 0 400 800
 AK State Plane Zone 4
 980600



Subdivision Field Map
 Map Key: PWSBP004A
 Name: A. Weseman
 Date: 5/5/91
 Date Entered:

ADEC Comments cont...

MAYSAP



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

BP004 A
ADEC Subsegment Length: 6267m
METERS

AK State Plane Zone 4
psg004ab



Subdivision Field Map

Map Key: PWSBP004Ab

Name: A. Weseman

Date: 5/5/91

Date Entered: