

EV-012 A (uncataloged)
EVANS POINT

ACE 1369555



DOCUMENTS IN STREAM FILES

ASC# _____ Segment # _____

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

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

226 UNCAT 04

ANADSCAT - 90

ACF&G MULTI-ASSESSMENT DATA FORM

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

2 REGION: PWS KP, CI K, AP

METHOD: Aerial Ground Boat

3 DATE: 4/22/90

15 HIGH TIDE TIMES: 1205 1 —

21 TEAM RECORDER: M. WIEDMER

4 START TIME: 1645

16 HIGH TIDE HTS: 10.0' 1 —

22 OBSERVERS: T. CROWE

5 STOP TIME: 1710

17 LOW TIDE TIMES: 0603 1 1814

23 AGENCY: ADF&G

6 SEGMENT #: EV-012

18 LOW TIDE HTS: 1.0' 1 0.7'

24 PHOTOS TAKEN: Y N

7 STATION #: EV-012A

19 TIDE HT AT SURVEY: 1.50'

Roll #: _____ Frame: _____

8 K-UNIT: _____

Ebb Slack Flood Slack

25 VIDEO TAKEN: Y N TAPE#: _____

9 STAT AREA: _____

20 USCG GUAD: SEWARD A3

Start: _____ End: _____

10 LAT: _____

11 LONG: _____

26 SAMPLES TAKEN? Y N Number

12 SOURCE: Map Loran

011 _____

13 LOCATION: NORTHEAST END, LATER EVANS IS.

Sediment _____

14 DESCRIPTION: _____

Biological _____

Water _____

EXTENT OF OIL

	SHORELINE				STREAM			
	L	W	M ²	%	L	W	M ²	%
27 SURFACE COVERAGE	100	75		1	75	3		<1

36 CATALOGED ANAD. FISH SREAM? Y N
NOMINATED, NOT CATALOGED

37 CATALOG #: NONE

38 STREAM NAME: _____

28 SURFACE THICKNESS 5mm 5mm 0mm 0 0 0

39 OIL IN STREAM BED? Y N

29 PENETRATION 5cm 5cm 10cm 0 0 0

40 OIL ON STREAM BANKS? Y N

30 OVERALL OIL IMPACT: N VL L M H

41 OIL ON BEACH ADJACENT TO MOUTH? Y N

31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain

42 OIL WITHIN 1 MILE OF STREAM? Y N

32 OILED DEBRIS? Y N

Where: _____

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

43 ANADROMOUS FISH PRESENT? Y N

34 WAVE EXPOSURE: High Moderate Low

FRY PRESUMED

35 SUBSTRATE TYPE: Bedrock _____ Boulder _____ Cobble 25
Gravel 50 Sand 25 Mud/silt _____

44 ANADROMOUS FISH OBSERVATION

Species Aerial Ground

COMMENTS: PREDOMINANTLY FINE GRAINED SUBSTRATE ON LOW EXPOSURE BEACH. TAR MATS 20m x 2m N.W. OF STREAM.

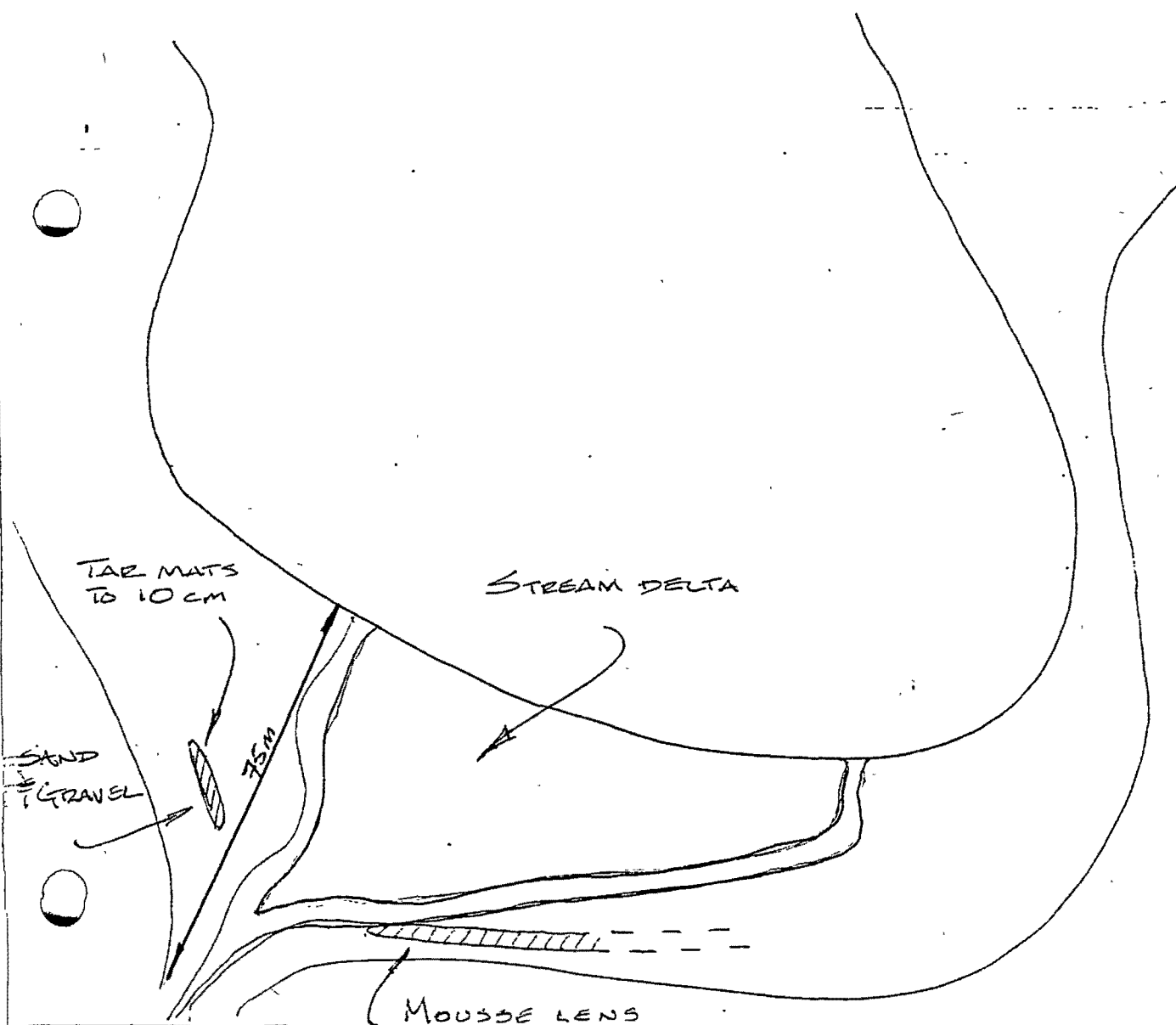
BURIED MOUSSE LENS (5-15 CM BELOW SURFACE; 5-10 CM THICK) E OF STREAM (25m x 1m). TAR MATS IN SMALL GRAVEL/ SAND. MOUSSE LENS IN SAND IN UPPER INTERTIDAL.

45 PHOTOLCC

NAME(S)

DESCRIPTION

RECOMMENDATIONS: MANUAL REMOVAL OF SURFACE
TAR MATS. MANUALLY REMOVE BURIED MOUSSE LENS
(REMOVE ONLY OILED LENS, NOT CLEAN OVERBURDEN)

46 OIL DISTRIBUTION DIAGRAM

sample taken
photo frame # and
shot direction.

MOUSSE LENS
5 CM THICK
5 CM BELOW SAND
CLEAN SAND SUBSTRATE

ACE 7237764-1S

ASC NUMBER:

SEGMENT NUMBER: *EVO12*

YR CATALOGED:

LOCATION:

STREAM NAME:

KODIAK K-UNIT: .

LOCAL STREAM #:

LATITUDE:

USGS QUADRANGLE:

LONGITUDE:

SHORELINE TYPE:

ALL SEGMENTS:

LEGAL:

WAVE EXPOSURE:

ASC NUMBER: *Uncatalogued*

TEAM RECORDER:

SURVEY TYPE:

OBSERVERS:

METHOD:

DATE: *4/22/90*

AGENCY(IES):

START TIME:

PHOTOS TAKEN?

STOP TIME:

Roll #:

Frames:

VIDEO TAKEN?

Tape Number:

Counter Start:

SAMPLES TAKEN?

SAMPLE I.D. NUMBERS: 1.

2.

3.

4.

5.

6.

	LENGTH m	WIDTH m	M2	%	THICK cm	PEN cm	OIL TYPE
SITE 1	<i>20</i>	<i>2</i>					<i>AP/sol</i>
SITE 2	<i>25</i>	<i>1</i>			<i>5</i>	<i>10</i>	<i>MS lens</i>
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT:

OIL IN STREAM CHANNEL?

OIL ON BEACH WITHIN 50M OF STREAM MOUTH?

SUBSTRATE

Bedrock	Granule
Boulder	Sand
Cobble	Silt
Pebble	Veget.

SPECIES

COUNT

COMMENTS: *ANADSCAT - 90**Tarmats to 10 cm*

*Recommendations: Manual Removal of surface tar mats.
Manually remove buried mouse lens (remove only oiled lens, not clean overburden)*

ADF&G MULTI-ASSESSMENT DATA FORM

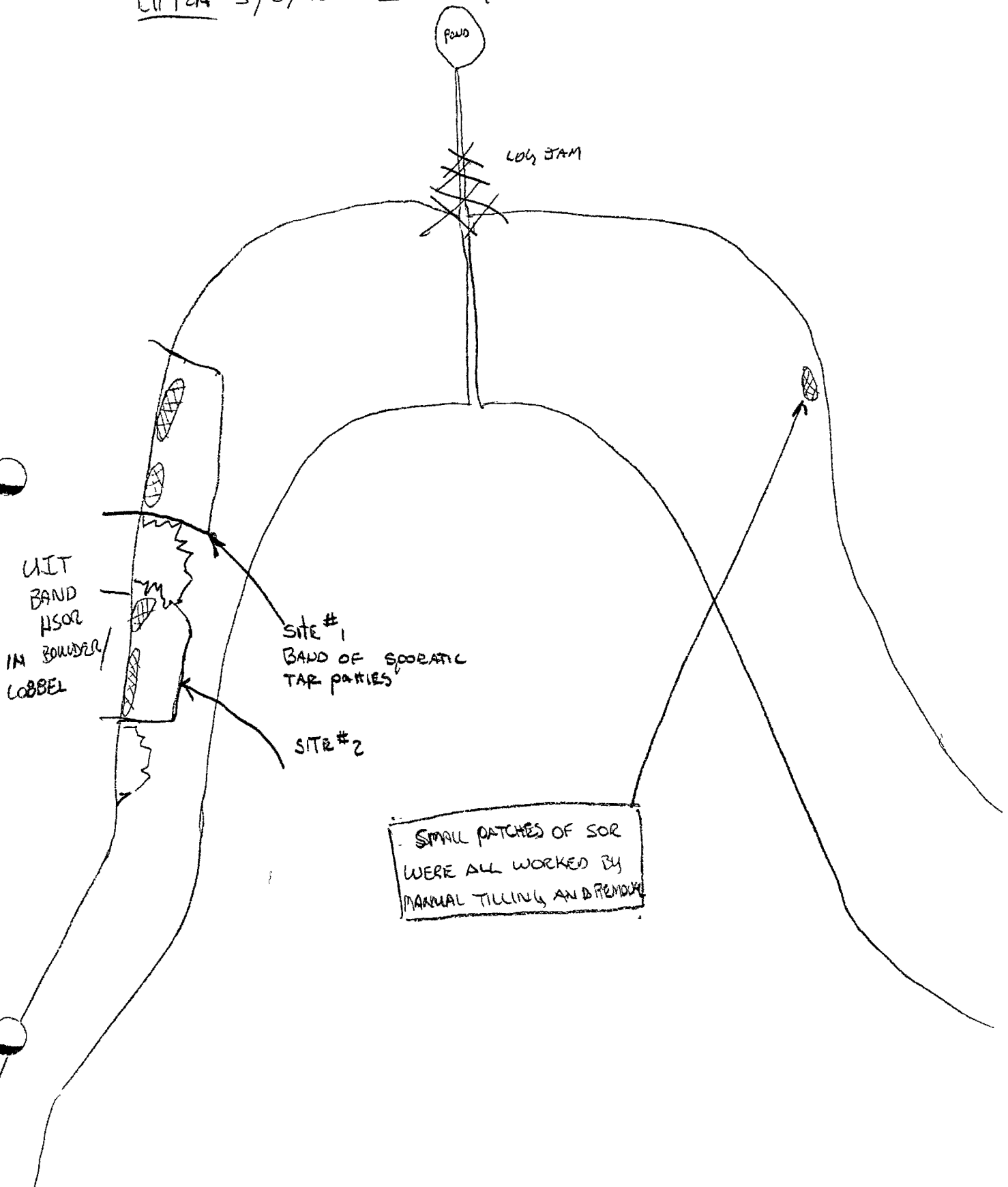
- 1) SURVEY TYPE: BS (SS) 2) REGION: (PWS) KP, CI K, AP
- 3) METHOD: Aerial (Ground) Boat
- 4) DATE: 5/2/91 16) HIGH TIDE TIME: _____ 22) TEAM RECORDER: Tom CROWE
- 5) START TIME: 0736 17) HIGH TIDE HTS: _____ 23) OBSERVERS: AIME & WESEMAN
- 6) STOP TIME: 0900 18) LOW TIDE TIMES: 1000-1030 24) AGENCY: ADF+G
- 7) SEGMENT #: FVRA 19) LOW TIDE HTS: -.5 25) PHOTOS TAKEN: Y (N)
- 8) K-UNIT: _____ 20) TIDE HT AT SURVEY: +2 to +1 ROLL #: _____ FRAMES: _____
- 9) LAT: _____ (Ebb) Slack Flood Slack 26) VIDEO TAKEN: Y (N)
- 10) LONG: _____ 21) USCG QUAD: _____ TAPE #: _____
- 11) ASC #: UNCATALOGED START: _____ STOP: _____
- 12) STREAM NAME: _____ 27) SAMPLES TAKEN? Y (N)
- 13) LOCATION: N Evans I 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	25	5	125	20	3 to 5		AP/SOR
SITE 2	20 M	5	100	20	3 to 5		AP/SOR
SITE 3							
SITE 4							
SITE 5							

- 29) OVERALL OIL IMPACT:
- 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)
- 31) OIL ON BEACH ADJACENT TO MOUTH: Y (N)
- 32) SUBSTRATE TYPE (PERCENT):
- Bedrock _____ Boulder 10% Gravel 85% Sand _____ Cobble 5% Mud/Silt _____
- 33) ANADROMOUS FISH PRESENT: Y (N)
- 34) WILDLIFE OBSERVATION
- | Species | Number |
|----------------|----------------------------|
| OTHER (DEAD) | DEAD OTHER <u>1</u> |
| DEER (CARCASS) | 2 DEER CARCASSES |
| SHRIMP (DEAD) | 2 dead shrimp on beach / 2 |
| | rock blennies 3 |
- 35) COMMENTS: CHARLES PETER - SELANOFF / CHENECA REP
- MOST ALL OF AP/SOR SEDIMENTS IN LITZ SCATTERED IN SOULDER AREA.
- SUGGEST MANUAL TILLING AND SMALL AMOUNT OF AP REMOVAL

EU 12A 5/2/90 UNCATALOGED



226 UNCAT04

Re-ANADSCAT-90

ADF&G MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS SS DS TS AVS SCHA MMS PTA2 REGION: PWS KP, CI K, APMETHOD: Aerial Ground Boat3 DATE: 4/12/9015 HIGH TIDE TIMES: /

21 TEAM RECORDER: _____

4 START TIME: 083716 HIGH TIDE HTS: /22 OBSERVERS: TOM CROW5 STOP TIME: 084617 LOW TIDE TIMES: /23 AGENCY: ADG&G6 SEGMENT #: RVD1218 LOW TIDE HTS: /24 PHOTOS TAKEN: Y N

7 STATION #: _____

19 TIDE HT AT SURVEY: _____

Roll #: _____ Frame: _____

8 K-UNIT: _____

Ebb Slack Flood Slack

25 VIDEO TAKEN: Y N TAPE#: _____

9 STAT AREA: _____

20 USCG QUAD: _____

Start: _____ End: _____

10 LAT: _____

11 LONG: _____

26 SAMPLES TAKEN? Y N Number

12 SOURCE: Map Loran

Oil _____

13 LOCATION: LATOUCHÉ

Sediment _____

14 DESCRIPTION: _____

Biological _____

Water _____

EXTENT OF OIL

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

36 CATALOGED ANAD. FISH SREAM? Y N37 CATALOG #: NONE

38 STREAM NAME: _____

39 OIL IN STREAM BED? Y N40 OIL ON STREAM BANKS? Y N30 OVERALL OIL IMPACT: N VL L M H41 OIL ON BEACH ADJACENT TO MOUTH? Y N
(within 50 meters)31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain42 OIL WITHIN 1 MILE OF STREAM? Y N32 OILED DEBRIS? Y N

Where: _____

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

43 ANADROMOUS FISH PRESENT? Y N

34 WAVE EXPOSURE: High Moderate Low

44 ANADROMOUS FISH OBSERVATION

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

Species Aerial Ground

COMMENTS: LIGHT SHOW WHEN DISTURBED STREAM SUBSTRATE.Heavy ASPHALT/TAR IN STREAM BEAM COVERED WITH OIL.

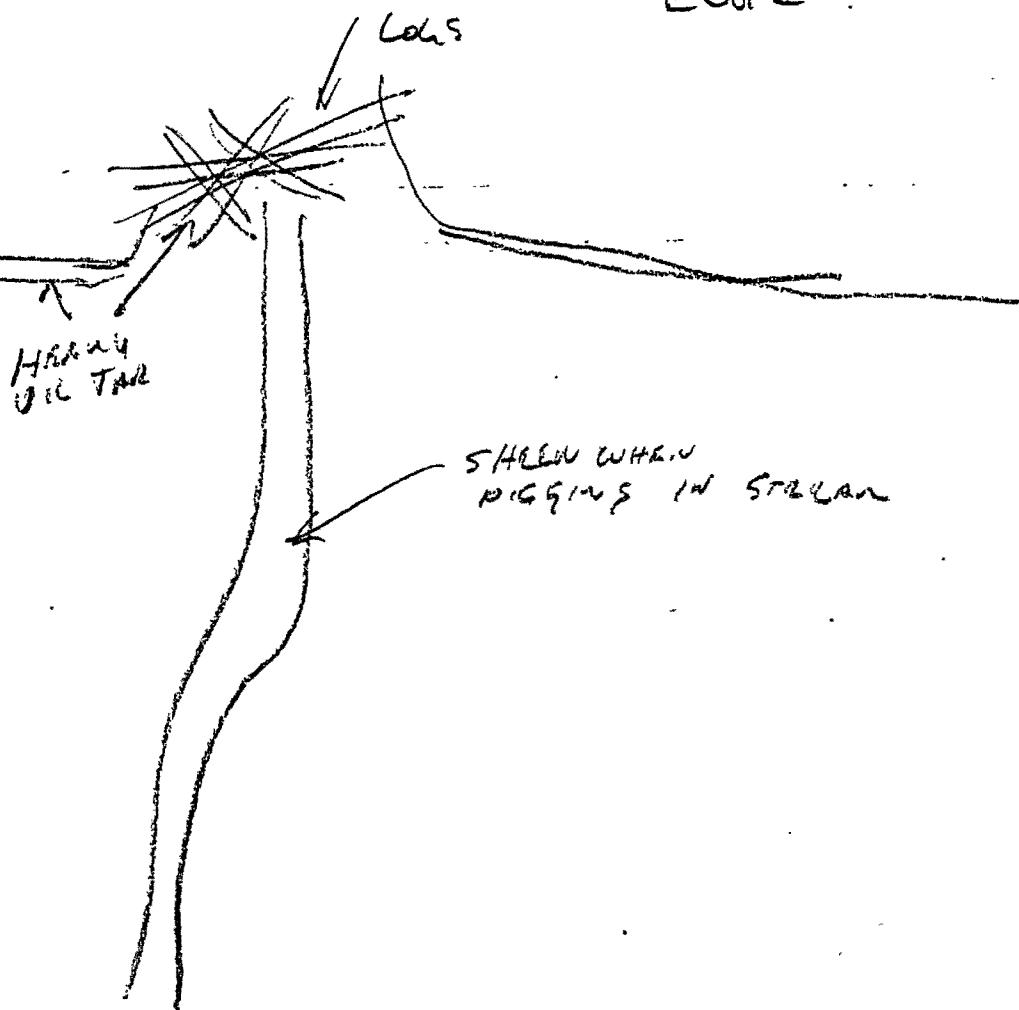
ACE 7237784 +15

NAME(S)	DESCRIPTION

46 OIL DISTRIBUTION DIAGRAM

NO AEC

EUIZ



= Sample taken
 = Photo frame # and
 shot direction.

ACE 7237785-15

ASC NUMBER: SEGMENT NUMBER: *5002* YR CATALOGED:
 LOCATION: STREAM NAME: LATITUDE:
 KODIAK K-UNIT: LOCAL STREAM #: LONGITUDE:
 USGS QUADRANGLE: LEGAL:
 SHORELINE TYPE: ALL SEGMENTS:
 WAVE EXPOSURE:

ASC NUMBER: *Uncat* TEAM RECORDER:
 SURVEY TYPE: OBSERVERS:
 METHOD: AGENCY(IES):
 DATE: *4/12/90* PHOTOS TAKEN?
 START TIME: Roll #: Frames:
 STOP TIME: 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							<i>AP/SOR</i>
SITE 2							
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT:

OIL IN STREAM CHANNEL?

OIL ON BEACH WITHIN 50M OF STREAM MOUTH?

SUBSTRATE

Bedrock Granule
 Boulder Sand
 Cobble Silt
 Pebble Veget.

SPECIES					
COUNT					

COMMENTS: *Pre-ANADSCAT - 9.*



ANADROMOUS FISH STREAMS/OILING CONDITION

PWS

226 uncat 04

Segment # EV12

ASC# uncatalogued

Location north side Evans I

Date 8/4/90

Recorder/Observer Aimee Weseman

1st cove from eastern edge

Oil in streambed none sighted Oil on streambanks none sighted

Oil within 50m of mouth yes Anadromous Fish present none sighted

Description of oil and comments

West side of stream - 4m long x 1m wide patch of tarmat in UITZ
in front of storm berm

East side - OP sediments 13m long x 1m wide - turns into
subsurface oil lense in storm berm

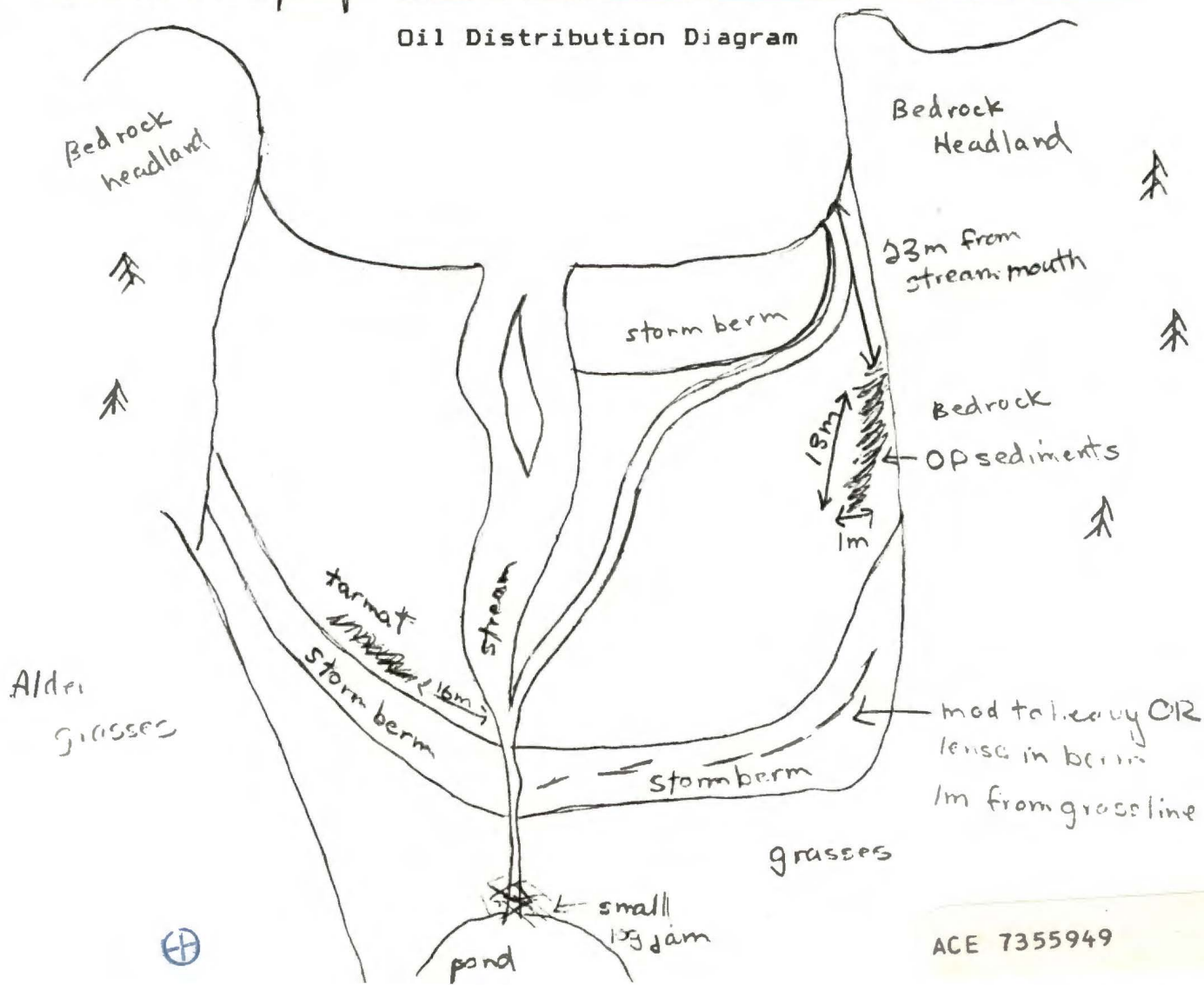
Rec - manual removal of OP sediments by rock wall on east.

" " " tarmat on west side UIZ

Possible tilling of storm berm to expose oil lense

Re-assess in spring lots of deer tracks - No F/VIPOL rec.

Oil Distribution Diagram



ACE 7355949

*Dup

ANADROMOUS FISH STREAMS/OILING CONDITION
PWS

Segment # EVI2 ASC# uncatalogued Location west side Evans T
Date 8/4/90 Recorder/Observer James Weseman ^{1st cave from eastern edge}
Oil in streambed none sighted Oil on streambanks none sighted
Oil within 50m of mouth yes Anadromous Fish present none sighted

Description of oil and comments

West side of stream - 4m long x 1m wide patch of tarmat in UITZ
in front of storm berm

East side - OP sediments 13m long x 1m wide - turns into
subsurface oil lense in storm berm

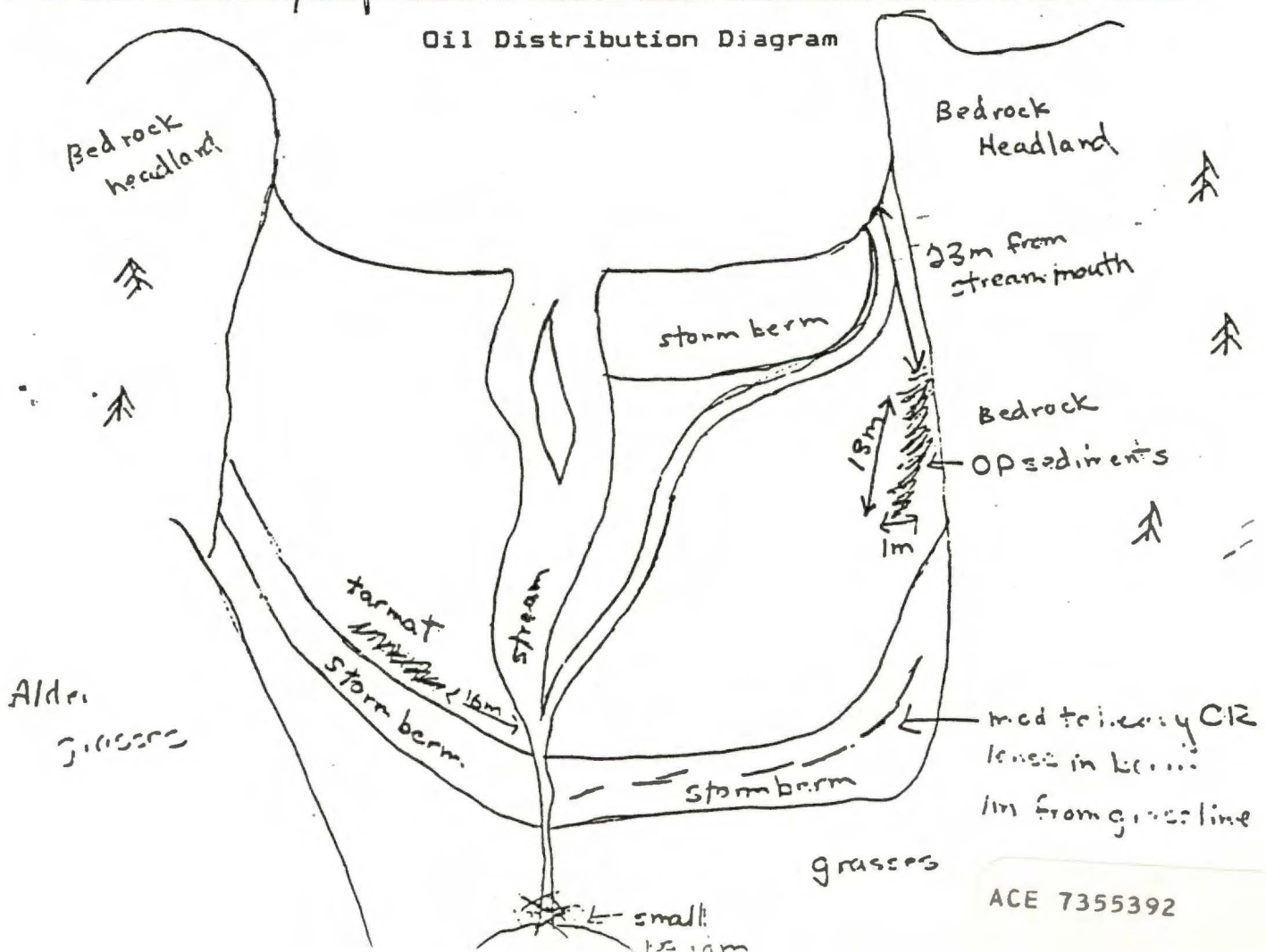
Rec - manual removal of OP sediments by rock wall on east.

" " " tarmat on west side UITZ

Possible tilling of storm berm to expose oil lense

Re-assess in spring lots of deer tracks Ab IN/Pol rec.

Oil Distribution Diagram



ACE 7355392

ANADROMOUS FISH STREAMS/OILING CONDITION
PWS

Segment # EVI2 ASC# uncatalogued Location North side Evans
Date 8/4/90 Recorder/Observer Aimee Wegman ^{1st row from eastern edge}
Oil in streambed none sighted Oil on streambanks none sighted
Oil within 50m of mouth yes Anadromous Fish present none sighted

Description of oil and comments

West side of stream - 4m long x 1m wide patch of tar mat in UITZ
in front of storm berm

East side - OP sediments 13m long x 1m wide - turns into
subsurface oil lense in storm berm

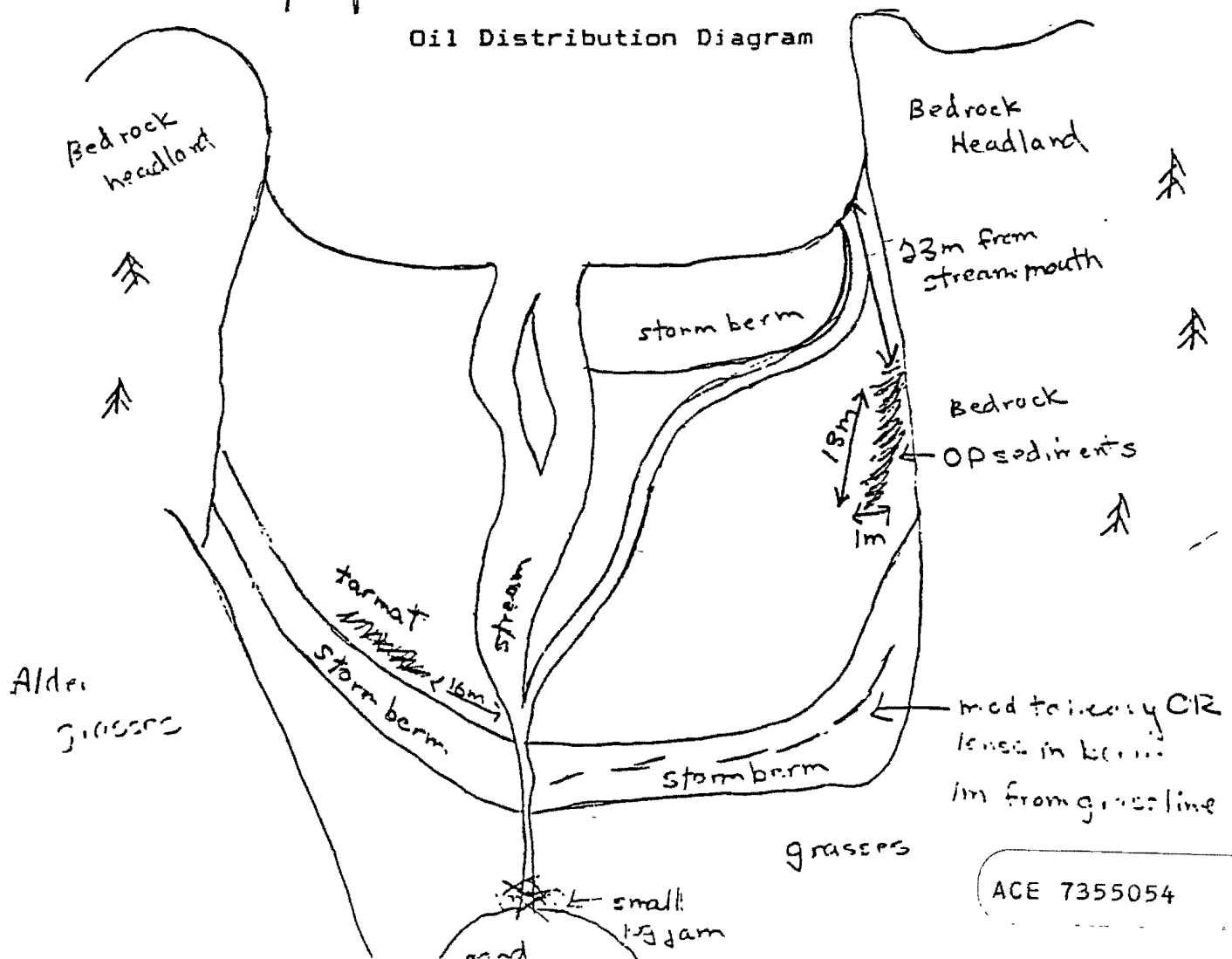
Rec - manual removal of OP sediments by rock wall on east;

" " " " tar mat on west side UIZ

Possible filling of storm berm to expose oil lense

Re-assess in spring lots of deer tracks - No IN/Pol rec.

Oil Distribution Diagram



ACE 7355054

ANADROMOUS FISH STREAMS/OILING CONDITION
PWS

Segment # EVI2 ASC# uncatalogued Location north side Evans I
Date 8/4/90 Recorder/Observer Aimee Weseman ^{1st cove from eastern edge}
Oil in streambed none sighted Oil on streambanks none sighted
Oil within 50m of mouth yes Anadromous Fish present none sighted

Description of oil and comments

West side of stream - 4m long x 1m wide patch of tarmat in UITZ
in front of storm berm

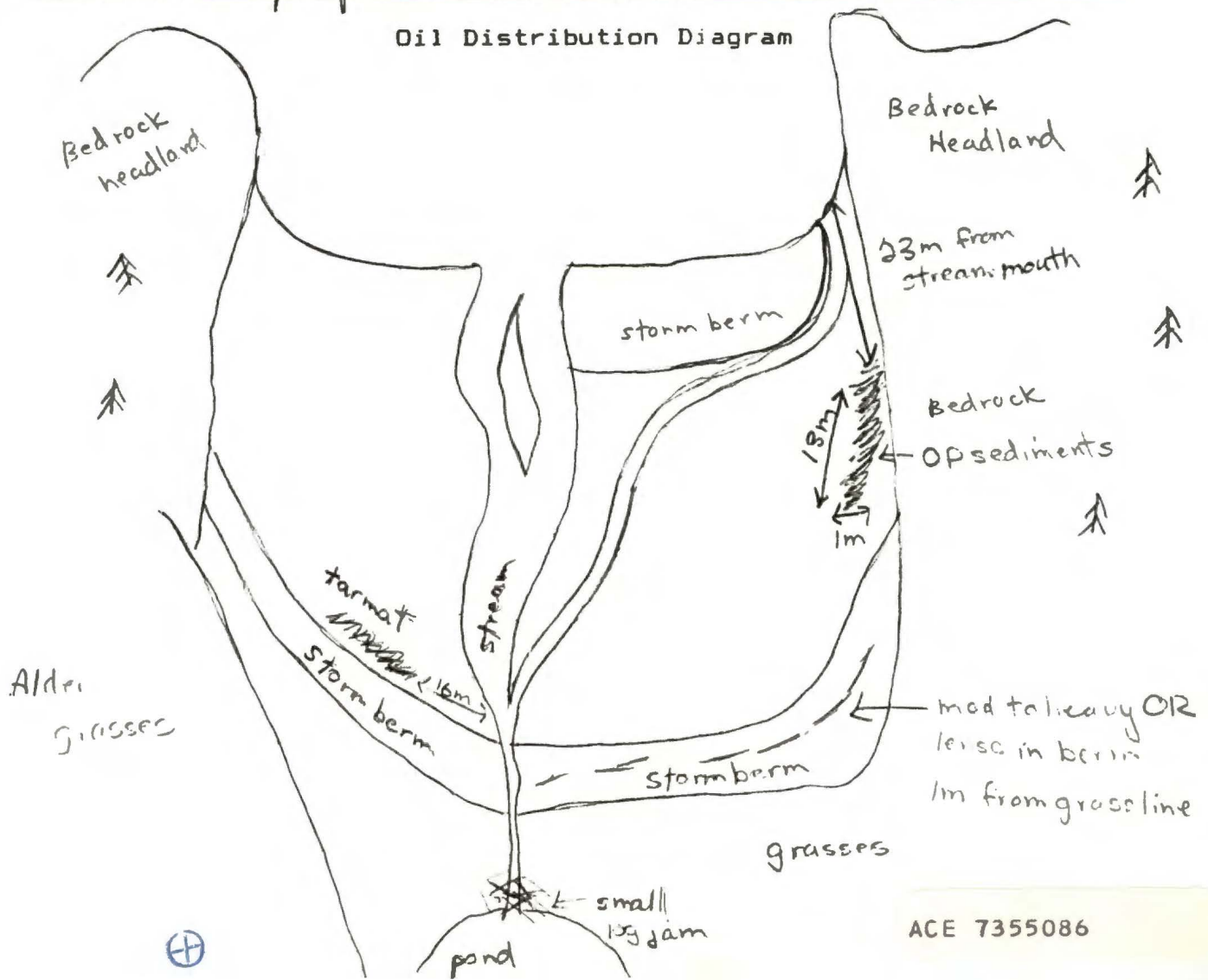
East side - OP sediments 13m long x 1m wide - turns into
subsurface oil lense in storm berm

Rec - manual removal of OP sediments by rock wall on east.
" " " " tarmat on west side UIZ

Possible tilling of storm berm to expose oil lense

Re-assess in spring lots of deer tracks - No F/VIPOL rec.

Oil Distribution Diagram



CATALOG NUMBER: 226UNCAT04 SEGMENT#: EV012 A LOCATION: EVANS ISLAND, EVANS POINT, SOUTHEAST OF							
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
04/12/90	PRE-ANADS CAT	1	SURFACE			AP SOR	EAST BANK AND SIDE OF STREAM.
MAD vs. OG: COMMENTS: LIGHT SHEEN WHEN STREAM SUBSTRATE IS DISTURBED. HEAVY ASPHALT/TAR IN STORM BERM COVERED WITH OIL. SKETCH SHOWS BAND OF HEAVY OIL AND TAR ON EAST BANK PERPENDICULAR TO STREAM AND EXTENDING TOWARDS LOG JAM.							

CATALOG NUMBER: 226UNCAT04 SEGMENT#: EV012 A LOCATION: EVANS ISLAND, EVANS POINT, SOUTHEAST OF							
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
04/22/90	ANADSCAT	1	2 x 20 SURFACE		10	AP SOR	NORTHWEST SIDE: TARMATS.
04/22/90	ANADSCAT	2	1 x 25 SUBSURF	100	5-10	MS LENS 5-15	EAST SIDE: PER SKETCH, BURIED MOUSSE LENSE 5-10 CM THICK, UNDER 5-15CM CLEAN SAND.
MAD vs. OG: COMMENTS: PREDOMINANTLY FINE GRAINED SUBSTRATE ON LOW EXPOSURE BEACH. TARMATS IN SMALL GRAVEL/SAND. MOUSSE LENS IN SAND IN UPPER INTERTIDAL. NO OIL ON STREAM BANKS. RECOMMENDATIONS: MANUAL REMOVAL OF SURFACE TARMATS. MANUALLY REMOVE BURIED MOUSSE LENS (REMOVE ONLY OILED LENS, NOT CLEAN OVERBURDEN).							

CATALOG NUMBER: 226UNCAT04 SEGMENT#: EV012 A LOCATION: EVANS ISLAND, EVANS POINT, SOUTHEAST OF							
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
04/22/90	OG'S ANADSCAT	1	2 x 20 BOTH		10	CT TB AP OR	PIT #5 IN AP AREA REVEALS OR FROM 0-10CM. WIDTH, LENGTH FROM OFN. AREA CLOSE TO STREAM.
04/22/90	OG'S ANADSCAT	2	1.5 x 25 SUBSURF	100	5 10	OL	PITS 3 AND 5. LENSE AT DEPTH OF 5-10CM. PIT 2 DELINEATES LENSE TO WEST. SKETCH SHOWS NO EASTERN LIMIT.

04/22/90	OG'S ANADSCAT	3	1 x 10 SURFACE	100		V L	POCKET OF OILED VEGETATION AND DEBRIS ABOVE SITE 1, IN PROXIMITY TO STREAM. (DIMENSIONS FROM OFN).
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MAD vs. OG: CLOSE - MAD DID NOT INCLUDE SITE 3.
COMMENTS:

CATALOG NUMBER: 226UNCAT04 SEGMENT#: EVO12 A LOCATION: EVANS ISLAND, EVANS POINT, SOUTHEAST OF

DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
08/04/90	PRE-ASAP	1	1 x 4 SURFACE			AP	WEST SIDE: PATCH OF TARMAT IN UITZ IN FRONT OF STORM BERM.
08/04/90	PRE-ASAP	2	1 x 13 BOTH			OP	EAST SIDE: OP BAND TURNS INTO SUBSURFACE OIL LENSE IN STORM BERM.

MAD vs. OG:
COMMENTS:
RECOMMEND - MANUAL REMOVAL OF 'OP' SEDIMENTS BY ROCK WALL ON EAST. ALSO MANUAL REMOVAL OF TARMAT ON WEST SIDE UITZ. POSSIBLE TILLING OF STORM BERM TO EXPOSE OIL LENSE. REASSESS IN SPRING. LOTS OF DEER TRACKS. NO INIPOL RECOMMENDED. NO OIL OBSERVED ON STREAM BANKS.

CATALOG NUMBER: 226UNCAT04 SEGMENT#: EVO12 A LOCATION: EVANS ISLAND, EVANS POINT, SOUTHEAST OF

DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
05/02/91	MAYSAP	1	5 x 25 SURFACE	20	3-5	AP SOR	EAST SIDE: UITZ.
05/02/91	MAYSAP	2	5 x 20 SURFACE	20	3-5	AP SOR	EAST SIDE: UITZ - CONTINUATION OF SITE 1. beyond boulder

West side? No.

MAD vs. OG:
COMMENTS:
CHARLES PETER SELANOFF, CHENEGA REP. MOST ALL OF 'AP/SOR' SEDIMENTS IN UITZ SCATTERED IN BOULDER AREA. SUGGEST MANUAL TILLING AND SMALL AMOUNT OF 'AP' REMOVAL.

CATALOG NUMBER: 226UNCAT04 SEGMENT#: EV012 A LOCATION: EVANS ISLAND, EVANS POINT, SOUTHEAST OF							SEQ:
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL (cm)	SITE SPECIFIC COMMENTS
04/12/90	PRE-ANADSCAT	1	SURFACE			AP SOR	<u>East bank</u> & side of stream
MAD vs. OG: COMMENTS: <i>STREAM SUBSTRATE IS DISTURBED.</i> LIGHT SHEEN WHEN DISTURB <i>↓</i> STREAM SUBSTRATE. HEAVY ASPHALT/TAR IN STORM BERM COVERED WITH OIL. SKETCH SHOWS BAND OF HEAVY OIL AND TAR ON EAST BANK PERPENDICULAR TO STREAM AND EXTENDING TOWARDS LOG JAM.							

CATALOG NUMBER: 226UNCAT04 SEGMENT#: EV012 A LOCATION: EVANS ISLAND, EVANS POINT, SOUTHEAST OF							SEQ:
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL (cm)	SITE SPECIFIC COMMENTS
04/22/90	ANADSCAT	1	2 x 20 SURFACE		10	AP SOR	<u>NW side of stream</u> , TARMATS.
04/22/90	ANADSCAT	2	1 x 25 <u>SUBSURFACE</u>	100	5-10	MS LENS <u>5-15cm</u>	<i>East of stream</i> PER SKETCH: MOUSSE LENSE 5-10 CM THICK, UNDER 50M <i>5-15cm</i> CLEAN SAND. <i>Buried</i>
MAD vs. OG: COMMENTS: PREDOMINANTLY FINE GRAINED SUBSTRATE ON LOW EXPOSURE BEACH. TARMATS 20M X 2M NW OF STREAM. BURIED MOUSSE LENS (5-15 CM BELOW SURFACE; 5-10 CM THICK) E OF STREAM (25M X 1M). TARMATS IN SMALL GRAVEL/SAND. MOUSSE LENS IN SAND IN UPPER INTERTIDAL. NO OIL ON STREAM BANKS. RECOMMENDATIONS: MANUAL REMOVAL OF SURFACE TARMATS. MANUALLY REMOVE BURIED MOUSSE LENS (REMOVE ONLY OILED LENS, NOT CLEAN OVERBURDEN).							

CATALOG NUMBER: 226UNCAT04 SEGMENT#: EV012 A LOCATION: EVANS ISLAND, EVANS POINT, SOUTHEAST OF							SEQ:
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL (cm)	SITE SPECIFIC COMMENTS
04/22/90	OG'S ANADSCAT	1	2 x 20 SURF/SUB		10	CT TB AP OR	PIT #5 IN AP AREA REVEALS OR FROM 0-10CM. WIDTH, LENGTH FROM OFN. AREA CLOSE TO STREAM.
04/22/90	OG'S ANADSCAT	2	1.5 x 25 <u>SUBSURFACE</u>	100	5 10	OL	PITS 3 AND 5. LENSE AT DEPTH OF 5-10CM. PIT 2 DELINEATES LENSE TO WEST. SKETCH SHOWS NO EASTERN LIMIT.

DATE PRINTED: 10/17/91

NON-DUCK STREAMS

04/22/90	OG'S ANADSCAT	3	1 x 10 SURFACE	100		VL V L	POCKET OF OILED VEGETATION AND DEBRIS ABOVE SITE 1, IN PROXIMITY TO STREAM. W AND L FROM OFN. DIMENSIONS from OFN)
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MAD vs. OG: CLOSE - MAD DID NOT INCLUDE SITE 3.
COMMENTS:

CATALOG NUMBER: 226UNCAT04				SEGMENT#: EV012 A		LOCATION: EVANS ISLAND, EVANS POINT, SOUTHEAST OF		SEQ:
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL (cm)	SITE SPECIFIC COMMENTS	
08/04/90	PRE-ASAP	1	1 x 4 SURFACE			AP	WEST SIDE: PATCH OF TAR MAT IN UITZ IN FRONT OF STORM BERM.	
08/04/90	PRE-ASAP	2	1 x 13 SURF/SUB			OP	EAST SIDE: OP BAND TURNS INTO SUBSURFACE OIL LENSE IN STORM BERM.	

MAD vs. OG:
COMMENTS:
~~WEST SIDE OF STREAM - 4M LONG X 1M WIDE PATCH OF TARMAT IN UITZ IN FRONT OF STORM BERM. EAST SIDE - 'OP' SEDIMENTS 13M LONG X 1M WIDE - TURNS INTO SUBSURFACE OIL LENSE IN STORM BERM. REC - MANUAL REMOVAL OF 'OP' SEDIMENTS BY ROCK WALL ON EAST. ALSO MANUAL REMOVAL OF TARMAT ON WEST SIDE UITZ. POSSIBLE TILLING OF STORM BERM TO EXPOSE OIL LENSE. REASSESS IN SPRING. LOTS OF DEER TRACKS. NO INIPOL RECOMMENDED. NO OIL OBSERVED ON STREAM BANKS.~~

CATALOG NUMBER: 226UNCAT04				SEGMENT#: EV012 A		LOCATION: EVANS ISLAND, EVANS POINT, SOUTHEAST OF		SEQ:
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL (cm)	SITE SPECIFIC COMMENTS	
05/02/91	MAYSAP	1	5 x 25 SURFACE	20	3-5	AP SOR	<u>east side of stream - UITZ</u>	
05/02/91	MAYSAP	2	5 x 20 SURFACE	20	3-5	AP SOR	<u>east side of stream - UITZ - continuation of site 1</u>	

MAD vs. OG:

COMMENTS:

CHARLES PETER SELANOFF, CHENEGA REP.

OF 'AP/SOR' SEDIMENTS IN UITZ SCATTERED IN BOULDER AREA. SUGGEST MANUAL TILLING AND SMALL AMOUNT OF 'AP' REMOVAL.

MOST ALL

4/7/90 survey
found. see p 97

RECORDER: SUNDET REC-DATE: 10/3/91

PAGE 1

STREAM NAME: -
LOCATION: EVANS ISLAND, EVANS PT, SE OF

DATE: 04/22/90

OG vs. MAD: close. MAD did not include site 3.

[illegible]

5 cm

Sent to

EDITED: KS 10/9/91.

DATE PRINTED: 10/02/91

PAGE 98

CATALOG NUMBER: 226UNCAT04

STREAM NAME:

LOCATION: EVANS ISLAND, EVANS POINT, SOUTHEAST OF

SEGMENT NUMBER: EV012 A

SHORELINE TYPE:

DATE: 04/12/90 TIME: COVE -0846

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

COMMENTS:

LIGHT SHEEN WHEN DISTURB STREAM SUBSTRATE. HEAVY ASPHALT/TAR IN STORM BERM COVERED WITH OIL.

Sketch shows band of heavy oil + tar on East bank perpendicular to stream and extending towards logjam.

CATALOG NUMBER: 226UNCAT04

STREAM NAME:

LOCATION: EVANS ISLAND, EVANS POINT, SOUTHEAST OF

SEGMENT NUMBER: EV012 A

SHORELINE TYPE:

DATE: 04/22/90 TIME: COVE -1710

SITE	WIDTH (m)	LENGTH (m)	AREA (sqm)	PERCENT OIL	THICKNESS (cm)	PENETRATION (cm)	SURFACE SUBSURF	OIL TYPES	COMMENTS
1	2	20	—	—	10	—	SURFACE	AP SOR	
2	1	25	—	100%/0	5-10	20 Subsurf	SURFACE	MS LENS	Mousse lens 5-10 cm thick, under 5 cm clean sand.

COMMENTS:

PREDOMINANTLY FINE GRAINED SUBSTRATE ON LOW EXPOSURE BEACH. TARMATS 20M X 2M NW OF STREAM. BURIED MOUSSE LENS (5-15 CM BELOW SURFACE; 5-10 CM THICK) E OF STREAM (25M X 1M). TARMATS IN SMALL GRAVEL/SAND. MOUSSE LENS IN SAND IN UPPER INTERTIDAL. FRY PRESUMED.

RECOMMENDATIONS: MANUAL REMOVAL OF SURFACE TARMATS. MANUALLY REMOVE BURIED MOUSSE LENS (REMOVE ONLY OILED LENS, NOT CLEAN OVERBURDEN).

OIL ON STREAM BANKS: NO

YES

OIL WITHIN 1 MILE OF STREAM:

CATALOG NUMBER: 226UNCAT04

STREAM NAME:

LOCATION: EVANS ISLAND, EVANS POINT, SOUTHEAST OF

SEGMENT NUMBER: EV012 A

SHORELINE TYPE:

DATE: 05/02/91 TIME: COVE -0900

SITE	WIDTH (m)	LENGTH (m)	AREA (sqm)	PERCENT OIL	THICKNESS (cm)	PENETRATION (cm)	SURFACE SUBSURF	OIL TYPES	COMMENTS
1	5	25	125	20	3-5		SURFACE	AP SOR	
2	5	20	100	20	3-5		SURFACE	AP SOR	

COMMENTS:

CHARLES PETER SELANOFF, CHENEGA REP.

OF 'AP/SOR' SEDIMENTS IN UITS SCATTERED IN BOULDER AREA. SUGGEST MANUAL TILLING AND SMALL AMOUNT OF 'AP' REMOVAL.

MOST ALL

4.2.5.11
File Ace
1199710STREAM TREATMENT REPORT
Alaska Department of Fish and Game
Tom Crowe

June 22, 1990

ASC # NoneSegment EV-012

Observations The intertidal zone surrounding the stream channel consists mostly of small-grained material. The site has moderate exposure to wind and waves. On the left side of the channel, in the upper-intertidal zone, tar mats are scattered within a 20 m x 2 m area and appear to be part of a buried oil lens. Right side of the channel a 25 m x 1 m lens (5 - 10 cm thick) of mousse is buried beneath 5 - 15 cm of clean sand.

0930

I arrived at the stream site on the TINGLET PRINCESS. The crew was working on removing a large oil lens adjacent to the stream. This lens of oil was covered by up to one ft. clean gravel and the crew had to excavate to remove it. Larry Olson (EXXON) was very cooperative in removing it although it ended up being a continuous band that ran 20 yards from the stream channel. After the OP gravel were removed customblen was applied to the excavated area and one inch of clean gravel raked over the top.

The work that was completed was above and beyond the recommendations of the Tag Anadromous stream work order. Work was completed to the satisfaction of the DEC representative (Wes Gormly) and ADF&G monitor Tom Crowe.

13 supersacks of oiled sediment were removed.

ACE 1967896

EV12A ASC# UNCLASSIFIED AT THIS TIME

ASAP TAG REVIEW SHEET

Segment: EV12 Subd: A Site: 1 Date
PRE-Review 11 AUG 90

Priority For Addressing In 1990

☒ HIGH ☐ MEDIUM ☐ LOW ☐ NTR

Treatment

Recommended: MANUALLY REMOVE - POOLED OIL / AP / SOR
and BIO

NO OG SHEET PROVIDED

Priority Site For Reassessment In 1991

YES NO YES NO YES NO YES NO
☒ CG ☐ ADEC ☒ EXXON ☐ LAND MGR
4
NOMA

TAB 13 AUG 90
Access AP/OP/HOR & BIO

See sketch

ASAP FOLLOWUP RECOMMENDATIONS

Segment: AS/EV-12 Subd.: A (Avalon) Site: _____ Date: 8-7-90 1990

Conditions Observed: On west side of stream is an area of AP, SOR left after Summer '90 treatment. On East side of stream is an area approx 15m x 3m of AP and OR/OR from 15cm-20cm surface penetration.

Followup Recommendations: ASAP/Survey crew recommends the manual removal of surface AP and subsurface OR and heavier oil to a depth of 15cm-30cm. Area on EAST side of stream should be thoroughly tilled and bioremediated as should area requiring manual removal.

Completed by Pickup Crew: ☐ YES ☒ NO

Priority for Addressing in 1990: ☒ High ☐ Mod. ☐ Low

ADEC

Bob McCrea
(name)

Robert E. McCrea
(signature)

Comments: For area East of stream the mechanical removal of small boulders covering oiled OR and OR sediments would greatly facilitate treatment.

Exxon

John Dean
(name)

John Dean
(signature)

Comments: PREVIOUS WORK IN AREA RATHER INTENSIVE. RE-OILING ~~THE~~ SOURCE SEEMS TO BE UNDER LARGE COBBLE/SMALL BOULDERS. MANUAL CREW SHOULD BE ABLE TO ROLL ROCKS ADEQUATELY TO REMOVE THIS SOURCE AND BIO REMEDIATE.

USCG

Don Davis
(name)

Don Davis
(signature)

Comments: MANUAL REMOVAL OF OILY GRAVEL IN AFFECTED AREA BY WORK CREW WITH EXCESS IN PIT ONLY BY ASAP TEAM SHOWN ONLY LIGHT FILM. REAPPLICATION OF "BIO" FOLLOWING MANUAL WORK REQUIRED.

Land Rep.

Steve Wingo
(name)

Steve Wingo
(signature)

Comments: Agree with local comments and recommendations - Above

SEGMENT AS / EV-012 SUBDIVISION: A SITE: 1 DATE 8-7-90

USCG

NAME David Noel NOAA SIGNATURE David C. Noel
Don Davis, GM, USCG

☒ YES ☐ NO PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

Area to east of stream was broken up by ASAP crew and contains little free oil. In contrast, a 3x15m area to the west of the stream contains a large amount of mobile oil despite earlier work efforts. This area should be treated (manual removal, bio, raking) in 1990 and checked in 1991.

ADEC

NAME Rob McCreedy SIGNATURE Rob McCreedy

☒ YES ☐ NO PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

An area east of stream approx 3m x 20m light AP and OR oil requires storage, tillage, distributing sludge beach, and bioremediation. An area west of stream requires manual removal of surface AP and subsurface oil to 20cm followed by storage, tillage and bioremediation. An ASAP Follow-up Recommendations form was submitted calling for these treatment recommendations.

AND MANAGER

NAME Steve Ward CU SIGNATURE Steve Ward

☒ YES ☐ NO PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

Enough oil west of the stream to need more manual in '90. Check Sub Sun Kase oil.

XXON

NAME John Dean SIGNATURE John Dean

☒ YES ☐ NO PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

THE AREA WEST OF STREAM JUSTIFIES ADDITIONAL WORK IN '90 PER "ASAP FOLLOW-UP RECOMMENDATIONS" AND REASSESSMENT IN '91

ASAP FOLLOWUP RECOMMENDATIONS

Segment: AS/EV-12 Subd.: A (ANAD.) Size: _____ Date: 8-7-90 1990

Conditions Observed: On west side of stream is an area of AP, SDR left after Summer '90 treatment. On East side of stream is an area approx 15m x 3m of AP and OP/OR from 15m-20m surface penetration.

Followup Recommendations: ASAP/Survey crew recommends the manual removal of surface AP and subsurface OR and heavier oil to a depth of 15cm-30cm. Then on West side of stream should be thoroughly tilled and bioremediated as should area requiring manual removal.

Completed by Pickup Crew: ☐ YES ☒ NO

Priority for Addressing in 1990: ☒ High ☐ Mod. ☐ Low

ADEC

BOB MCCREARY
(name)

Robert B. McCr
(signature)

Comments: For area East of stream, the mechanical removal of small boulders covering oil and OP and OR sediments would greatly facilitate treatment.

Exxon

JOHN DEAN
(name)

John Dean
(signature)

Comments: PREVIOUS WORK IN AREA RATHER INTENSIVE. RE-DILLING SOURCE SEEMS TO BE UNDER LARGE COBBLE/SMALL BOULDERS. MANUAL CREW SHOULD BE ABLE TO ROLL ROCKS ADEQUATELY TO REACH THIS SOURCE AND BIO REMEDIATE

USCG

DON O'NEILL
(name)

Don O'Neill
(signature)

Comments: MANUAL REMOVAL OF OILY MATERIAL IN DEFECTIVE AREA ON WORK AREA. WATER EXPOSED IN PIT ONLY BY ASAP TEAM SHOWED ONLY LIGHT FILM. REAPPLICATION OF "BIO" FOLLOWING MANUAL WORK REQUIRED.

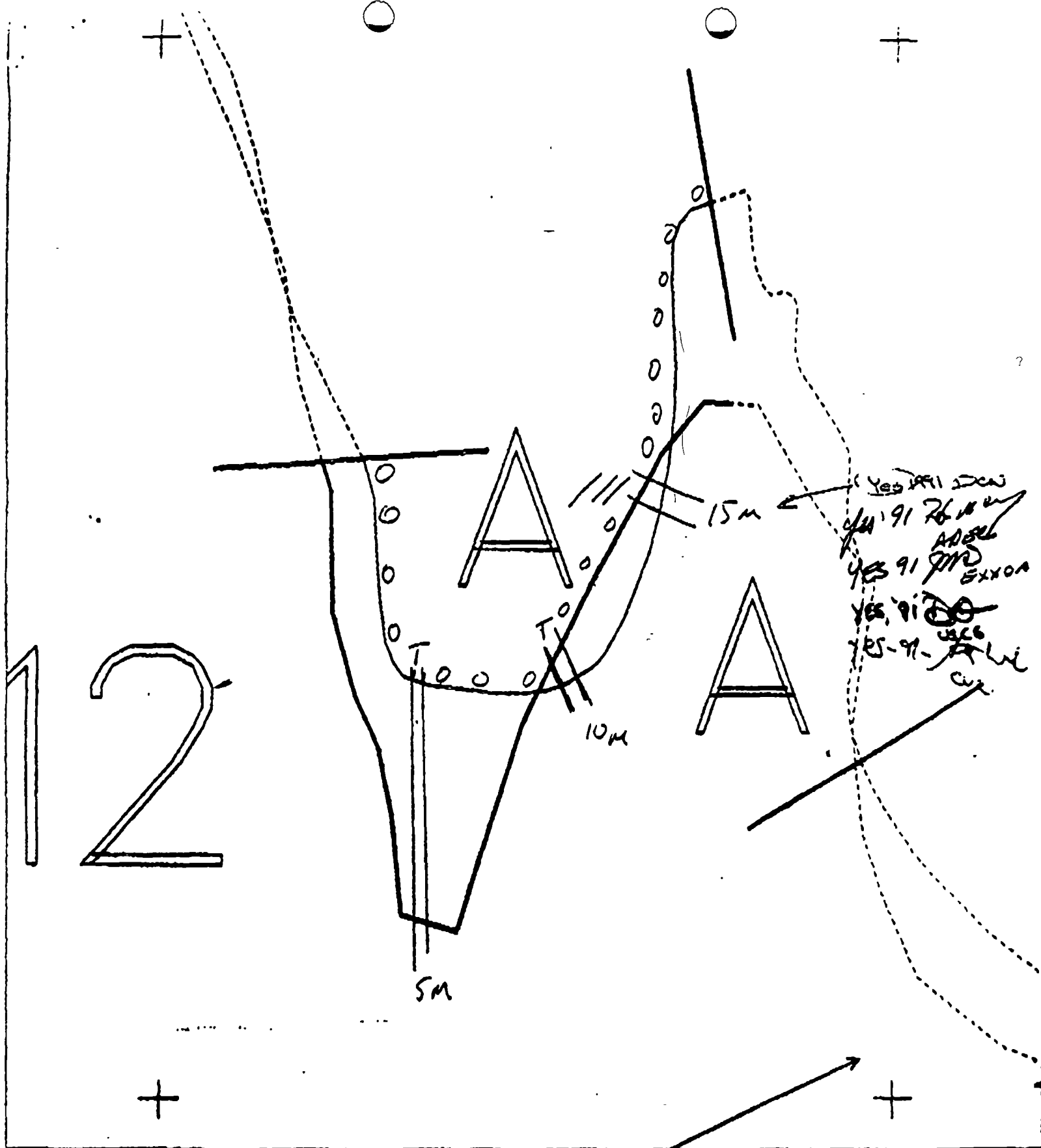
Land Rep.

Steve LINDS CUC
(name)

Steve Linds
(signature)

Comments:

Agrees with local comments and recommendations - 1990



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

EV-12 A
 ADEC Subsegment Length: 667m
 METERS
 0 70 152
 AK State Plane Zone 4 1:2000
 dev-120



Subdivision Field Map
 Map Key: PWSEV-12A
 Name: NAKASHIMA
 Date: NAKASHIMA
 Date Entered:

ACE 7237726

GENERAL DATA

SEG ID: EV012 SBOV: 14 SITE: 1 TEAM: 3 DATE: 8/7/90
 SITE LGTH 667 OIL CATEGORIES: W - M 15 N - VL 15 NO 6370
 1991 REASSESSMENT: USCG: Y ADEC: Y LONGR: Y EXXON: Y

SURFACE DATA

CHAR #: 1 OIL CHAR: SOR OIL DIST: CONT - BRKN - PTCH 1 SPLH 15
 TIDAL ZONE: SU - UI X MI - LI -

CHAR #: 2 OIL CHAR: CV OIL DIST: CONT - BRKN 15 PTCH 1 SPLH -
 TIDAL ZONE: SU - UI X MI - LI -

CHAR #: 3 OIL CHAR: ST OIL DIST: CONT - BRKN - PTCH - SPLH 15
 TIDAL ZONE: SU - UI X MI - LI -

CHAR #: 4 OIL CHAR: NO OIL DIST: CONT - BRKN - PTCH - SPLH -
 TIDAL ZONE: SU X UI - MI X LI X

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

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

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

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

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

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

SUBSURFACE DATA

PAGE 2 OF 2

SEGMENT ID: EUP12 SUBDIV: A SITE: 1PIT # 1 PIT DEPTH 20 OIL CHARACTER OR OIL INTVAL: FROM 0 TO 7
CLEAN BELOW: Y PIT ZONE: SU - UI X MI - LI -SUBSURF SEDIMENT: BRK - BLD - COB - PEB X GRN X SAN X MUD - VEG -PIT # 2 PIT DEPTH 20 OIL CHARACTER OR OIL INTVAL: FROM 0 TO 17CLEAN BELOW: Y PIT ZONE: SU - UI X MI - LI -SUBSURF SEDIMENT: BRK - BLD - COB X PEB X GRN X SAN X MUD - VEG -PIT # PIT DEPTH OIL CHARACTER OIL INTVAL: FROM TO CLEAN BELOW: PIT ZONE: SU UI MI LI SUBSURF SEDIMENT: BRK BLD COB PEB GRN SAN MUD VEG PIT # PIT DEPTH OIL CHARACTER OIL INTVAL: FROM TO CLEAN BELOW: PIT ZONE: SU UI MI LI SUBSURF SEDIMENT: BRK BLD COB PEB GRN SAN MUD VEG PIT # PIT DEPTH OIL CHARACTER OIL INTVAL: FROM TO CLEAN BELOW: PIT ZONE: SU UI MI LI SUBSURF SEDIMENT: BRK BLD COB PEB GRN SAN MUD VEG PIT # PIT DEPTH OIL CHARACTER OIL INTVAL: FROM TO CLEAN BELOW: PIT ZONE: SU UI MI LI SUBSURF SEDIMENT: BRK BLD COB PEB GRN SAN MUD VEG PIT # PIT DEPTH OIL CHARACTER OIL INTVAL: FROM TO CLEAN BELOW: PIT ZONE: SU UI MI LI SUBSURF SEDIMENT: BRK BLD COB PEB GRN SAN MUD VEG PIT # PIT DEPTH OIL CHARACTER OIL INTVAL: FROM TO CLEAN BELOW: PIT ZONE: SU UI MI LI SUBSURF SEDIMENT: BRK BLD COB PEB GRN SAN MUD VEG PIT # PIT DEPTH OIL CHARACTER OIL INTVAL: FROM TO CLEAN BELOW: PIT ZONE: SU UI MI LI SUBSURF SEDIMENT: BRK BLD COB PEB GRN SAN MUD VEG

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

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

ANADROMOUS STREAM CONSTRAINT

TAG
 EXXON
 ADEC
 USCG
 NOAA

Andy Tetz
Richard R. [unclear]
[unclear]
[unclear]

DATED

Aug 15 1990

FOSC

DATED

ACE 7237714 + IAC

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 226-10-16908					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#: EV012
LOCATION: NE EVANS ISLAND

DATE: 10/14/89
TIME: 10:40

Survey Type: Boat, Ground
Team: H. Wood, D. Zobrist

WEATHER AND SEA CONDITIONS

Weather: Rain
Sea State: Rough

Wind Direction: NE
Knots: 0-15

Low Tide: 7:21	Feet: 0.19	High Tide: 13:29	Feet: 14.4
Low Tide: 19:53	Feet: -2.3	High Tide: 1:24	Feet: 12.8

SHORELINE DESCRIPTION

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

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

Max. Oil Thickness: 1 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 25 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 75%
Presence of Oiled Driftwood (y/n): n
Oil Types: T,A,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: EV012-1 / EV012-2 / 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

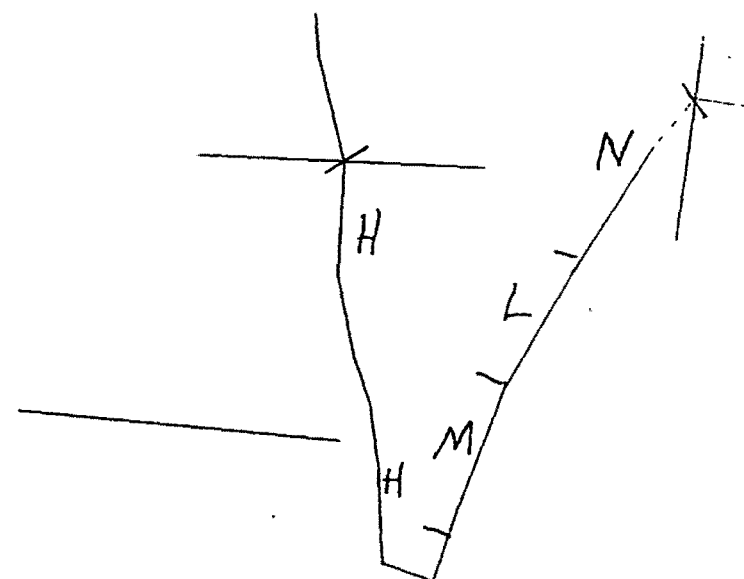
Printed: 12/12/89 11:16

Walk-a-thon

ACE 7237716

EV012

500.0



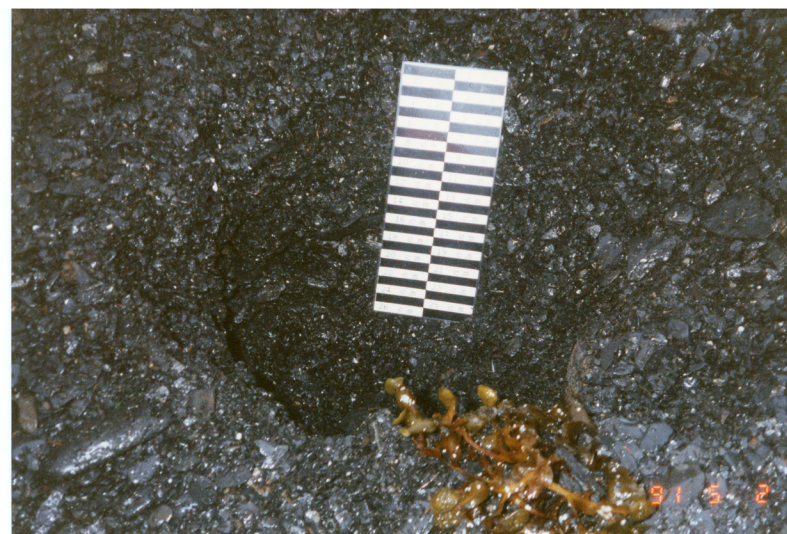
OILING	
H	= Heavy
M	= Moderate
L	= Light
VL	= Very Light
N	= None
NS	= Not Surveyed
Distance In Meters	





Date: 5/02/91 No. 868

Title: EV012A





Segment No EVO12 Subdivision A

Date 5/2/91 Log Frame No 3

Photographer Rebecca Hoff

Location _____

Comments View of dead otter (moved
onto log in upper intertidal)

Roll No MAYSAP- 605 Neg. No 2

Control No 868 (Office Use Only)



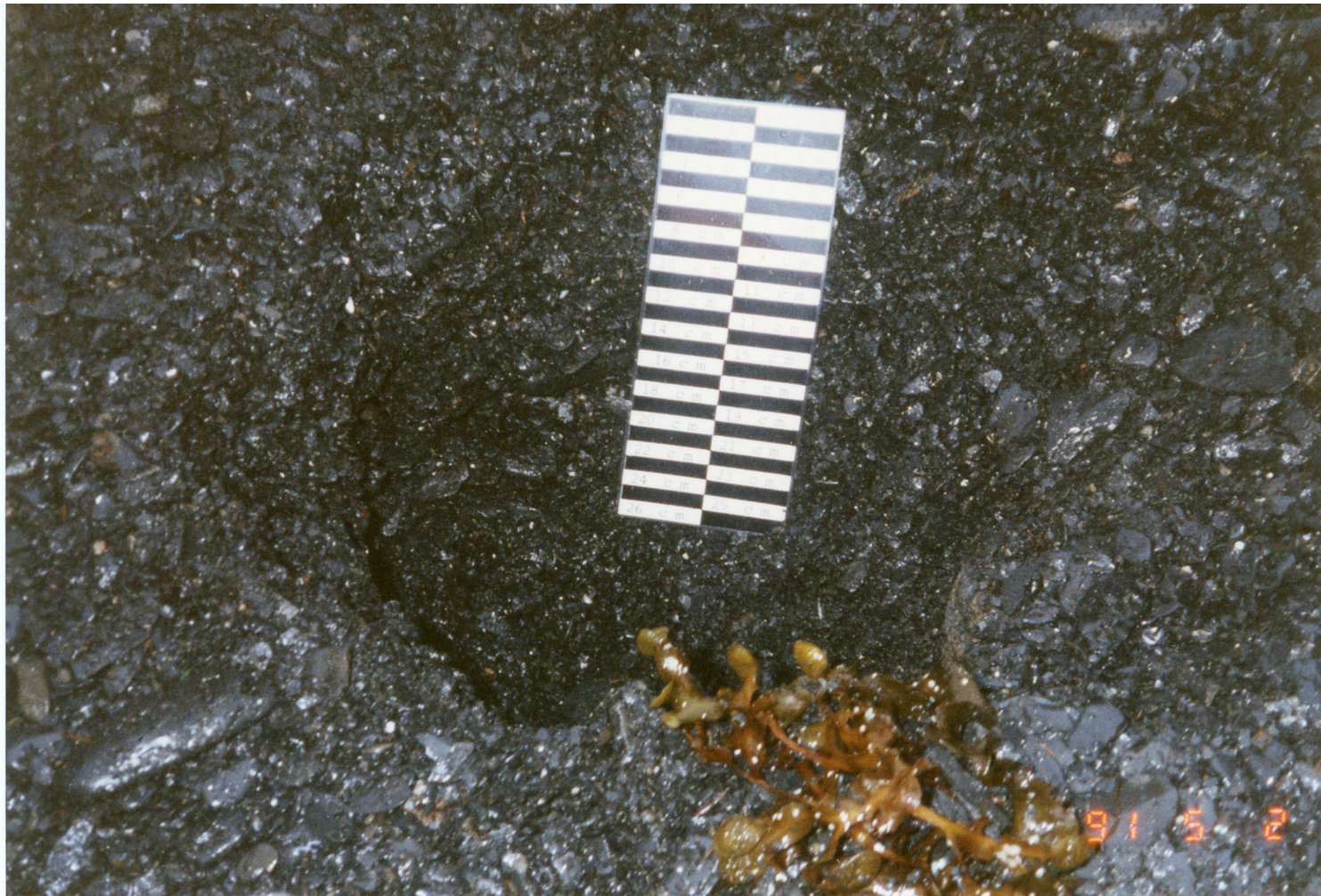
Segment No EV 012 Subdivision H
Date 5/2/91 Log Frame No 1
Photographer Rebecca Hoff
Location _____
Comments looking upstream from mid
intertidal

Roll No MAYSAP- 6-05 Neg. No 0
Control No 868 (Office Use Only)



Segment No EVO12 Subdivision A
Date 5/2/91 Log Frame No 4
Photographer Rebecca Hoff
Location _____
Comments Overview of cave from
eastern end at upper intertidal

Roll No MAYSAP-6-05 Neg. No 3
Control No 868 (Office Use Only)



Segment No EVO12 Subdivision A
Date 5/2/91 Log Frame No 2
Photographer Rebecca Hoff
Location _____
Comments Close up of pit #1 near
stream bank (no oil)

Roll No MAYSAP- 605 Neg. No 1
Control No 868 (Office Use Only)



ADF&G OIL SPILL RESPONSE MONITORING

ASC# uncatalogued

Date: 6/30/91

Stream Name: _____

Observer: Aimee Weseman

Segment-Sub Unit EV12A

Location: N Tip Evans I - 1st cove

Anad. Stream Permit Issued? Y ☐ N ☒

Date: General Permit Issued

Work Order Issued: Y ☐ N ☒

Date: was up for re-assessment

Demob Date: 6/30/91

Oil Characteristics (circle appropriate ones)

Surface: AP, MS, TB, ☒ SOR, ☒ CV, ☒ CT, ST, FL, DB, None
Subsurface: OP, HOR, ☒ MOR, ☒ LOR, ☒ OF, TR, None

Treatment Techniques:

☒ Manual Removal
☒ Manual Raking
Spot Wash
Other

Bioremediation & Type
Mechanical Tilling
Header Flood (Hot/Cold)

Crew Size: 5

Lbs. or Bags of Oil/Sediment Removed 3^{geo} bags = total 10 geo bags for subsegmenting

Other Agency Reps, and Names: Leigh Carlson, Marsha Hall - ADNR
Dianne Munson, Dennis Harwood - ADEC

Photos

Y ☐ N ☒

Roll #

Frames

Video

Tape #

Start

End

NO

Sediment/Oil Samples (Y-N)

Collection Number

Purpose of Trip * treatment

* Form designed primarily for cleanup inspection trips, but should be used for any field trips, i.e., to check on bird rookeries, seal haulouts, special habitat areas, etc.

Describe extent of remaining oil (any comments on expected completion of cleanup).

Stream sediment was demobilized - could be re-assessed this fall or next spring

Known oil deposits were removed as much as possible to LSOR - should be in good shape.

Remaining oil could be manually tilled at some point

Comments: (Are work order procedures being followed?, etc.)

No work order issued

Did not locate small patch of AP on eastern point shown in MAXSAP sketch

A:OPRESP
April 2, 1991

ADF&G OIL SPILL RESPONSE MONITORING



ASC# uncatalogued

Date: 6/07/91

Stream Name: _____

Observer: Aimee Weseman

Segment-Sub Unit ELVIA

Location: North Evans Island

Anad. Stream Permit Issued? Y ☒ N

Date: _____

Work Order Issued: Y ☒ N

Date: _____

Demob Date: _____

Oil Characteristics (circle appropriate ones)

Surface: ☒ AP, MS, TB, ☒ SOR, CV, CT, ST, FL, DB, None
 Subsurface: OP, HOR, ☒ MOR, LOR, OF, TR, None

Treatment Techniques:

Manual Removal ☒
 Manual Raking ☒
 Spot Wash
 Other

Bioremediation & Type
 Mechanical Tilling
 Header Flood (Hot/Cold)

Crew Size: 5 - same as agency Reps.

Lbs. or Bags of Oil/Sediment Removed 7 bags

Other Agency Reps, and Names: Leigh Carlson, Marsha Hall - DNR
Joni Mathews, Dianne Munsen - ADEC

Photos Y ☒ N

Roll #

Frames

Video

Tape #

Start

End

✓

Sediment/Oil Samples (Y ☒ N)

Collection Number

Purpose of Trip * re-assessment / treatment

* Form designed primarily for cleanup inspection trips, but should be used for any field trips, i.e., to check on bird rookeries, seal haulouts, special habitat areas, etc.

Describe extent of remaining oil (any comments on expected completion of cleanup).

Obvious oil remaining includes the ^{small} patch in area B of AP/SOR & some HSCR sediments in area C. Site was not demobed - DEC crew plans to return & complete

Comments: (Are work order procedures being followed?, etc.)

Only sediments in areas A, C were removed. Only small remnants of tar mat remained in sec C, it having been worked on Mays AP. Area A had not been been touched, so the majority of the oil came from there. A scattered, thin lense was discovered in the LUTZ to the west of area A - & looked to be a continuation of it. This was removed & tilled.

A:OPRESP
April 2, 1991

0 50 100

meters

KNIGHT ISLAND DATSAGE

EV-012-A

05/02/91

OG Map

D.I. Little

0745 - 0845

N

EV-13

0.1 x 0.1
AP/SOR 50%

did not locate

boulder talus

main oiled area

0.1 x 5
30% AP

PU leaving SOR (H)

1 x 20 m
AP < 10%

PU leaving SOR (L)

0.1 x 0.5
10%
PU

removed 2 bags - thin lense

EVANS ISLAND

ANDROMEDAS STREAM

PIT TO OIL CLEAN below sed. wt. screen size

#	PIT	TO	OIL	CLEAN	below	sed.	wt.	screen	size
①	35	N	Y	pg/gps	-	-	-	-	MITZ
②	30	N	Y	gp-gps	-	-	-	-	MITZ
③	25	N	Y	gp-gps	-	-	-	-	MITZ
④	30	N	Y	gp-gps	-	-	-	-	MITZ
⑤	20	N	Y	cp-gps	15	-	-	-	MITZ
⑥	25	N	Y	pg-gs	20	-	-	-	MITZ
⑦	20	N	Y	bc-p-gps	15	-	-	-	MITZ
⑧	25	N	Y	pg-gps	-	-	-	-	MITZ

■ - areas treated

6-27-90 1991

Reviewed: MC 5-11-91

revised

0 50 100
meters

EV-012-A

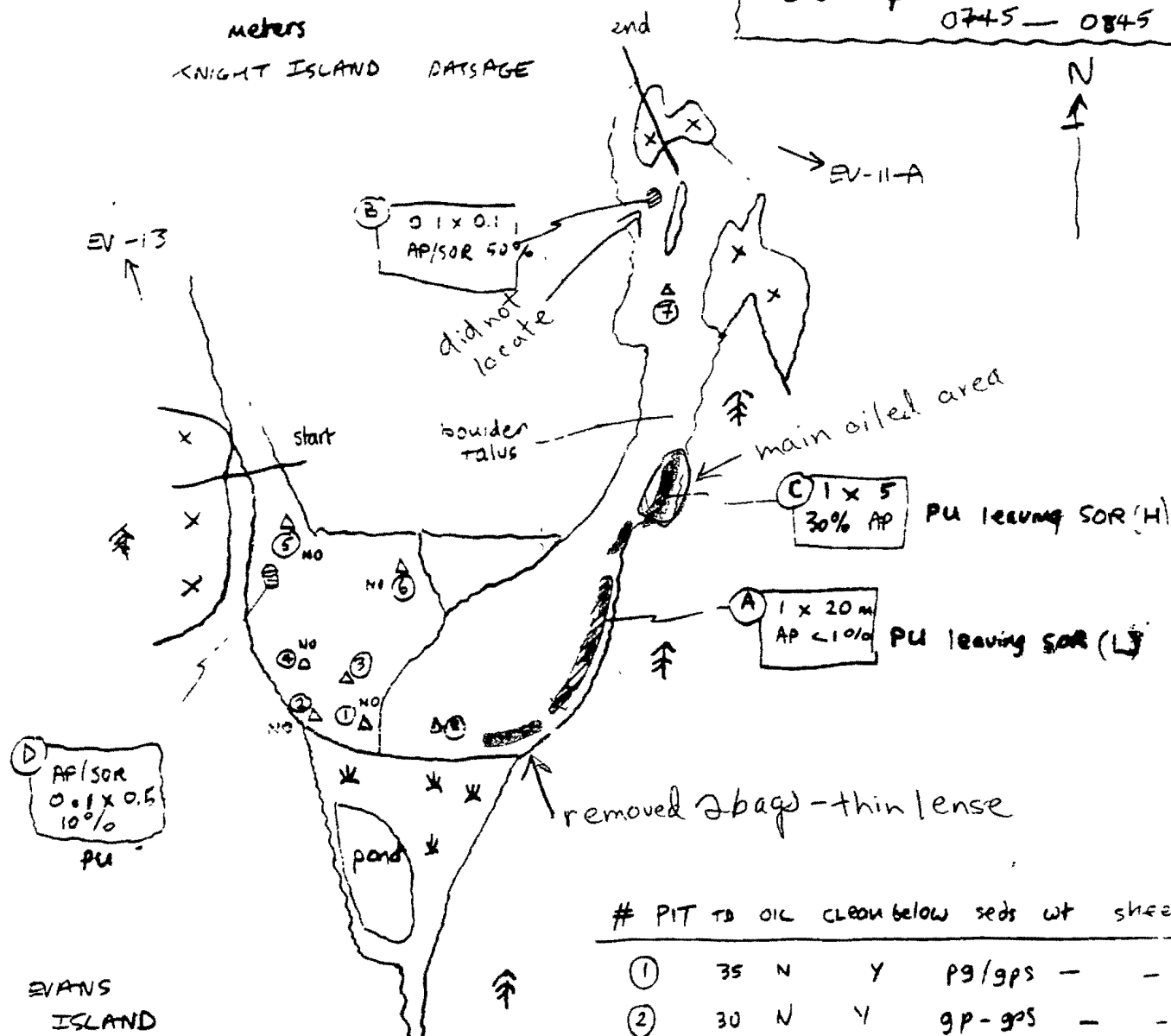
05/02/91

OG Map

D.I. LITAB

0745 — 0845

KNIGHT ISLAND DATSAGE



PIT TO OIL CLEAN below sed. wt. screen size

①	35	N	Y	pg-gps	—	—	MITZ
②	30	N	Y	gp-gps	—	—	MITZ
③	25	N	Y	gp-gps	—	—	MITZ
④	30	N	Y	gp-gps	—	—	MITZ
⑤	20	N	Y	cp-gps	15	—	MITZ
⑥	25	N	Y	pg-gs	20	—	MITZ
⑦	20	N	Y	bc-p-gps	15	—	MITZ
⑧	25	N	Y	pg-gps	—	—	MITZ

areas treated

6-27-30 1991

Reviewed by 5-1-91

revised

1991 MAYSAP EVALUATION

Maysap - 4
226 uncat 04

SEGMENT: EV 012 SUB: A REGION: PWS SURVEY DATE: 5/2/91

ENVIRONMENTAL SENSITIVITIES:

Work Window(s) OPEN 5/1 - 7/10; RESTRICTED 7/10 - 9/15

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

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO Signature: Rachel Ann Owen Date: 5/17/91

RECOMMENDATIONS:

	INITIAL	TAG	FOSC
TREATMENT REQUIRED (Y or N)	<u>N</u>	<u>N</u>	<u>N</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>	<u> </u>
Other <u> </u>	<u> </u>	<u> </u>	<u> </u>

COMMENTS:

INITIAL:

TAG:

FOSC:

TAG APPROVAL DATE: MAY 17 1991 FOSC APPROVAL DATE: 25 MAY 1991

ADEC [Signature] FOSC [Signature]

EXXON [Signature]

USCG [Signature]

NOAA [Signature]

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

The state will evaluate the need for further treatment.

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

PRINCE WILLIAM SOUND

SEGMENT: EV012
anadromous fish stream

SUBDIVISION: A

SITE:

226 UNCAT 04

RECOMMENDED TREATMENT:

The state will evaluate the need for further treatment.

ENVIRONMENTAL SENSITIVITIES:

WORK WINDOW: -

CLEANUP PLAN AND COST ESTIMATE DUE:

DATE SUBMITTED: 05/20/91

STATE ON SCENE COORDINATOR:

[Signature] for E. Piper

1991 MAYSAP EVALUATION

SEGMENT: EV 012 **SUB:** A **REGION:** PWS **SURVEY DATE:** 5/2/91

ENVIRONMENTAL SENSITIVITIES:

Work Window(s) OPEN 5/1 - 7/10; RESTRICTED 7/10 - 9/15

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

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO Signature: _____ **Date:** _____

RECOMMENDATIONS:

INITIAL

TAG

FOSC

TREATMENT REQUIRED (Y or N)

N

Manual Pickup (Check as Req.)

Spot Washing

Bio-Customblen Only

Bio-Inipol/Customblen

Other

Other

COMMENTS:

INITIAL: Usually P.O. HOR, but in this case area so small 1x5 m. NTR. state. will reevaluate need for further treatment.

TAG:

↑

FOSC:

TAG APPROVAL DATE: _____

FOSC APPROVAL DATE: _____

ADEC _____

FOSC _____

EXXON _____

USCG _____

NOAA _____

**ECOLOGICAL CONSTRAINTS
1991 FIELD ACTIVITIES**

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

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

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

STREAM#: 2264016590
PURPOSE: CLEANUP

SEGMENT#: EV003 A

LOCATION: EVANS ISLAND, EVANS POINT

STREAM NAME:

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

COMMENTS:

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

?

STREAM#: 226UNCAT04
PURPOSE: REASSESSMENT/TREATMENT

SEGMENT#: EV012 A

LOCATION: EVANS ISLAND, EVANS POINT, SOUTHEAST OF

STREAM NAME:

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

COMMENTS:

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

DATE: 10/16/91

REGION: PWS

PAGE 5

STREAM#: 226UNCAT04
PURPOSE: TREATMENT

SEGMENT#: EV012 A

LOCATION: EVANS ISLAND, EVANS POINT, SOUTHEAST OF

STREAM NAME:

DATE	OBSERVER OTHER REPS	WORK ORDER DATE	DEMOBIL. DATE	SURFACE OIL SUBSURFACE OIL	TREATMENTS	AMOUNT REMOVED	REMAINING OIL
06/30/91	AIMEE WESEMAN ADNR CARLSON HALL, ADEC MUNSON HARWOOD		06/30/91	SOR CV CT MOR LOR OF	MANUAL REMOVAL MANUAL RAKING	3 GEO BAGS	STREAM SEDIMENT WAS DEMOBED - COULD BE REASSESSED THIS FALL OR NEXT SPRING. KNOWN OIL DEPOSITS WERE REMOVED AS MUCH AS POSSIBLE TO 'LSOR' - SHOULD BE IN GOOD SHAPE. REMAINING OIL COULD BE MANUALLY TILLED AT SOME POINT.

COMMENTS:

NO WORK ORDER ISSUED. GENERAL PERMIT ISSUED. DID NOT LOCATE SMALL PATCH OF 'AP' ON EASTERN POINT SHOWN IN MAYSAP SKETCH.

STREAM#: 2264016640
PURPOSE: TREATMENT

SEGMENT#: EV014 A

LOCATION: EVANS ISLAND, EVANS POINT

STREAM NAME:

DATE	OBSERVER OTHER REPS	WORK ORDER DATE	DEMOBIL. DATE	SURFACE OIL SUBSURFACE OIL	TREATMENTS	AMOUNT REMOVED	REMAINING OIL
06/03/91	AIMEE WESEMAN EXX NAUMAN BOYER, USCG JENSEN	05/25/91	06/03/91	SOR CV CT MOR LOR	MANUAL REMOVAL MANUAL RAKING MANUAL TILLING	<1 BAG	OIL REMAINING INCLUDES SOME 'MOR' & 'LOR' SEDIMENTS NEAR PIT #3, SOR/M & L IN LOCATION D & OTHER LIGHT DEPOSITS IE, CT, CV MENTIONED ON MAYSAP.

COMMENTS:

THIS AREA WAS TREATED 5/15 OR 16, 1991, BY A BOAT CREW. SINCE NO ADF&G REP WAS PRESENT AT TIME OF TREATMENT, ADEC REP DEFERRED "SIGN-OFF" UNTIL WE COULD INSPECT THE SITE. WE TILLED THE AREA OF SUBSURFACE OIL BY PIT #3 AND REMOVED 'AP' IN LOCATION D.

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: 5/2/91 16) HIGH TIDE TIME: _____ 22) TEAM RECORDER: Tom CAWE
- 5) START TIME: 0736 17) HIGH TIDE HTS: _____ 23) OBSERVERS: AMEE WESEMAN
- 6) STOP TIME: 0900 18) LOW TIDE TIMES: 1000-1030 24) AGENCY: ADF&G
- 7) SEGMENT #: FV2A 19) LOW TIDE HTS: -.5 25) PHOTOS TAKEN: Y (N)
- 8) K-UNIT: _____ 20) TIDE HT AT SURVEY: +2 to +1 ROLL #: _____ FRAMES: _____
- 9) LAT: _____ (Ebb) Slack Flood Slack 26) VIDEO TAKEN: Y (N)
- 10) LONG: _____ 21) USCG QUAD: _____ TAPE #: _____
- 11) ASC #: UNCATALOGED START: _____ STOP: _____
- 12) STREAM NAME: _____ 27) SAMPLES TAKEN? Y (N)
- 13) LOCATION: N Evans I SAMPLE I.D. _____
- 14) WAVE EXPOSURE: High (Moderate) Low
- 15) SHORELINE TYPE: Headland Low-lying Rocks (Beach)
- (Cove) Lagoon Marsh

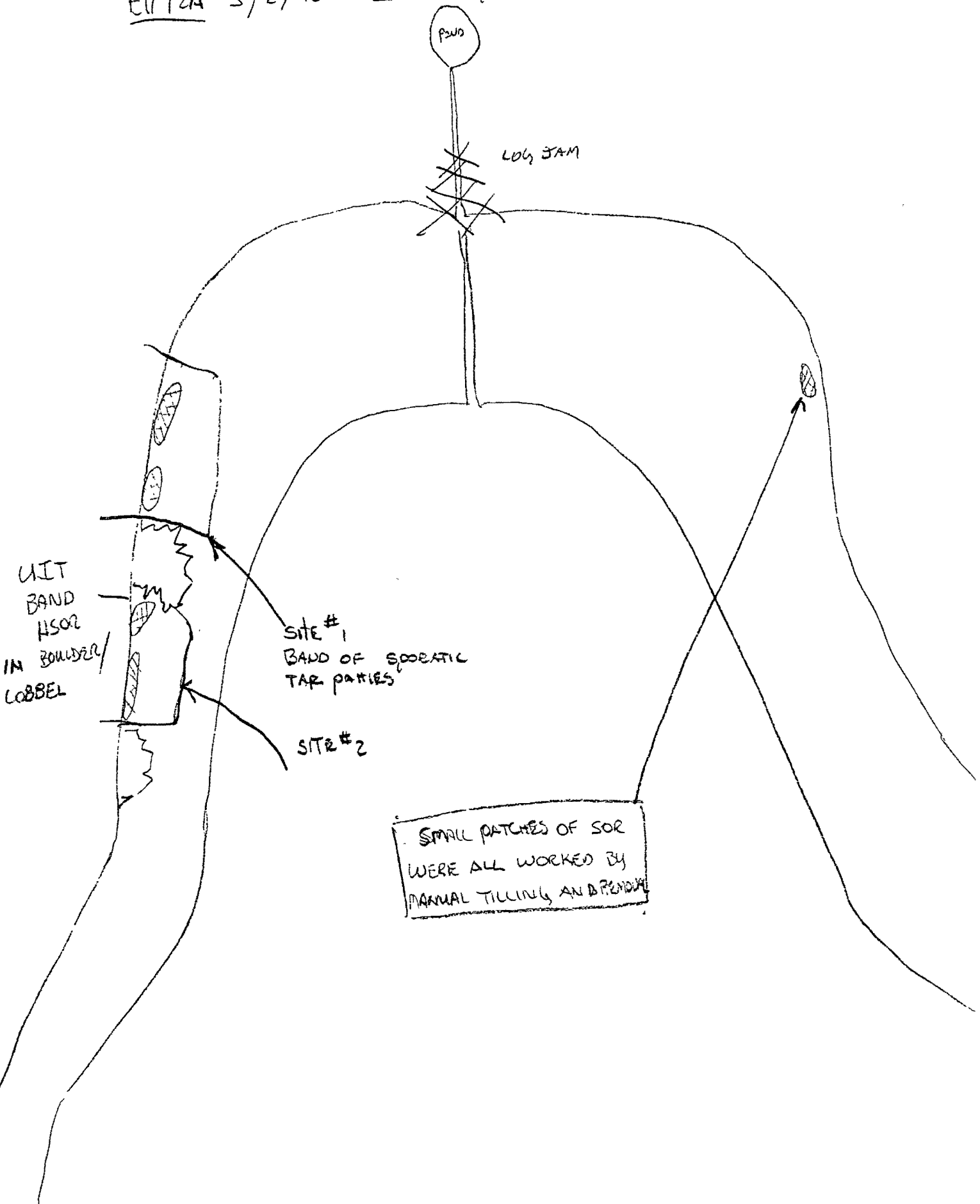
28) EXTENT OF OIL

	LENGTH m	WIDTH m	M2	%	THICK cm	PEN cm	OIL TYPE
SITE 1	25	5	125	20	3 to 5		AP/SOR
SITE 2	20 M	5	100	20	3 to 5		AP/SOR
SITE 3							
SITE 4							
SITE 5							

- 29) OVERALL OIL IMPACT:
- 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 $\geq 10\%$ 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 10% Gravel 85% Sand _____ Cobble 5% Mud/Silt _____
- 33) ANADROMOUS FISH PRESENT: Y (N)
- 34) WILDLIFE OBSERVATION
- Species _____ Number _____
- DEAD OTTER = 0.
- 2 DEER CARCASSES
- Rock Blennies 3
- Dead Shrimp on beach 12
- 35) COMMENTS: CHARLES PETER SELANOFF/CHENEKA RD
- MOST ALL OF AP/SOR SEDIMENTS IN LITTE SCATTERED IN BOULDER AREA.
- SUGGEST MANUAL TILLING AND SMALL AMOUNT OF AP REMOVAL

226 UNCAT 64

EU 12A 5/2/90 UNCATALOGED



PAGE 1 OF 1

No subsurface oil was observed in 8 logged pits and numerous shallow "scrapes."

Reviewed: 5/9/91 mc
reviewed 5/8/91

MAYSAP BIOLOGICAL SUMMARY FORM

TEAM # 6
 DATE 5/2/91
 SEGMENT # EV-012
 TIDAL HEIGHT (Range) +4 1/4 ft to +1 ft
 SUBDIVISION A
 BIOLOGIST T.R. Schroeder
 SEA STATE 1-2 ft. chop
 WIND SPEED/DIRECTION E-15 mph
 PHOTOGRAPHS: ROLL #
 FRAME #

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

(A, C + D) = Intertidal area around and below these areas very clean and unproductive. Black sand/shale beach probably is in continual shifting mode during any major northerly storms.

(B) = Extreme eastern end of this section has a very thick lush growth of fucus kelp, red and green algae. Barnacles, sand fleas, mussels and rock blennies are abundant in this area. Larger, more stable rocks and protective reefs are providing an excellent shelter for numerous animals.

In general this beach is one of the least productive surveyed to date. Most likely this is due to the substrate composed of shale to fine black sand that does not provide a stable environment.

WILDLIFE OBSERVATIONS

TO BE COMPLETED IN ALL SUBDIVISIONS

BIRDS	# OF SPECIES	TOTAL BIRDS	FISH OBSERVED SPECIES PRESENT
Eagles			12 dead shrimp on beach
Seabirds			
Waterfowl	2	7	3-rock blennies
Gulls/kittiwakes	1	3	
Shorebirds			
Corvids			
Other Birds			

LAND MAMMALS

MARINE MAMMALS	# OBSERVED	SPECIES	# OBSERVED
Sea Otters	1 dead	Lots of deer tracks	
Pinnipeds (specify)			
Whales (specify)			

Shoreline subdivision map showing important biological features attached.

0 50 100
meters

EV-012-A 5/2/91
Bio. Map T.R. Schroeder
0745-0845

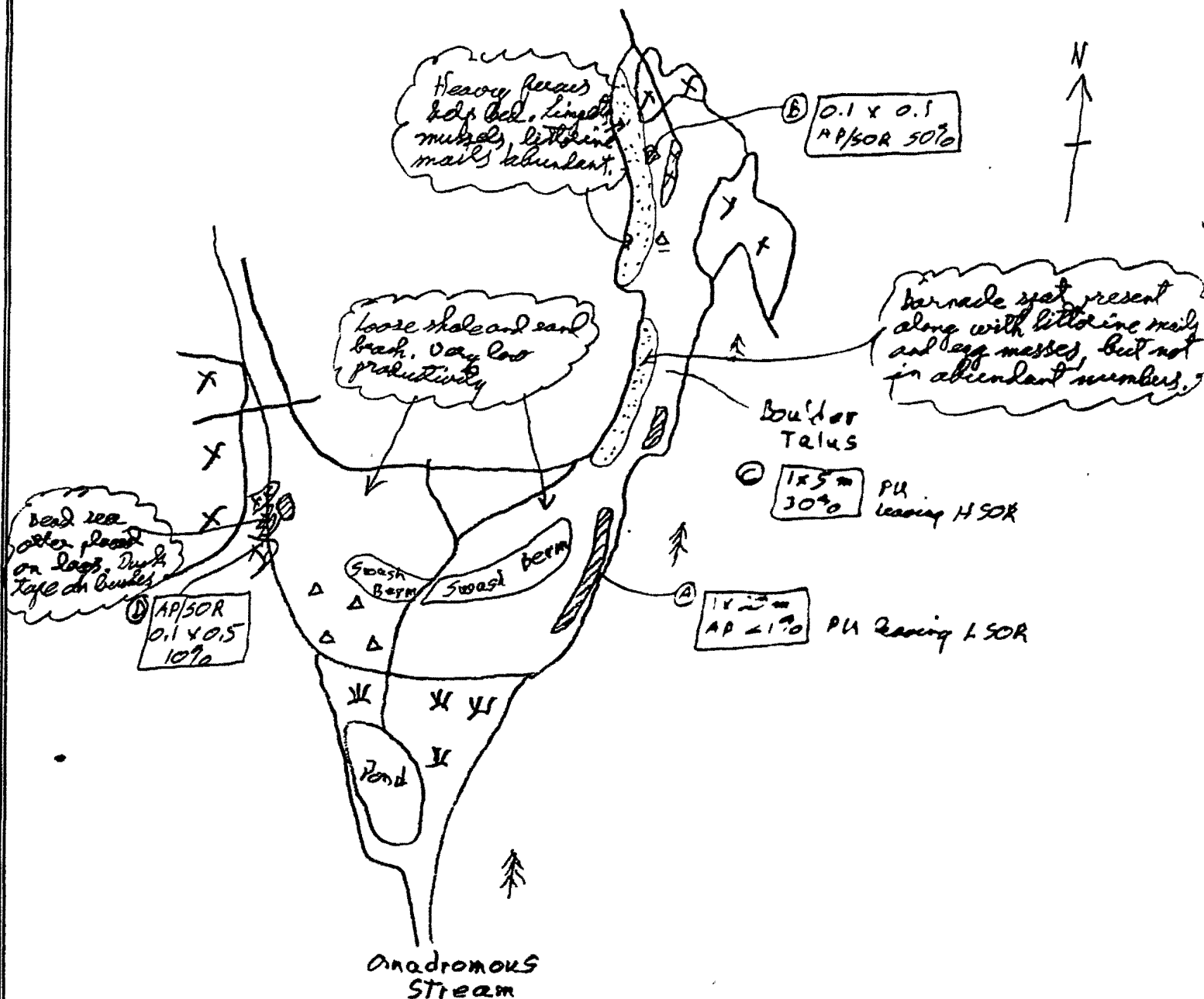


Photo Locations

Maysep 6-05 # 1-4

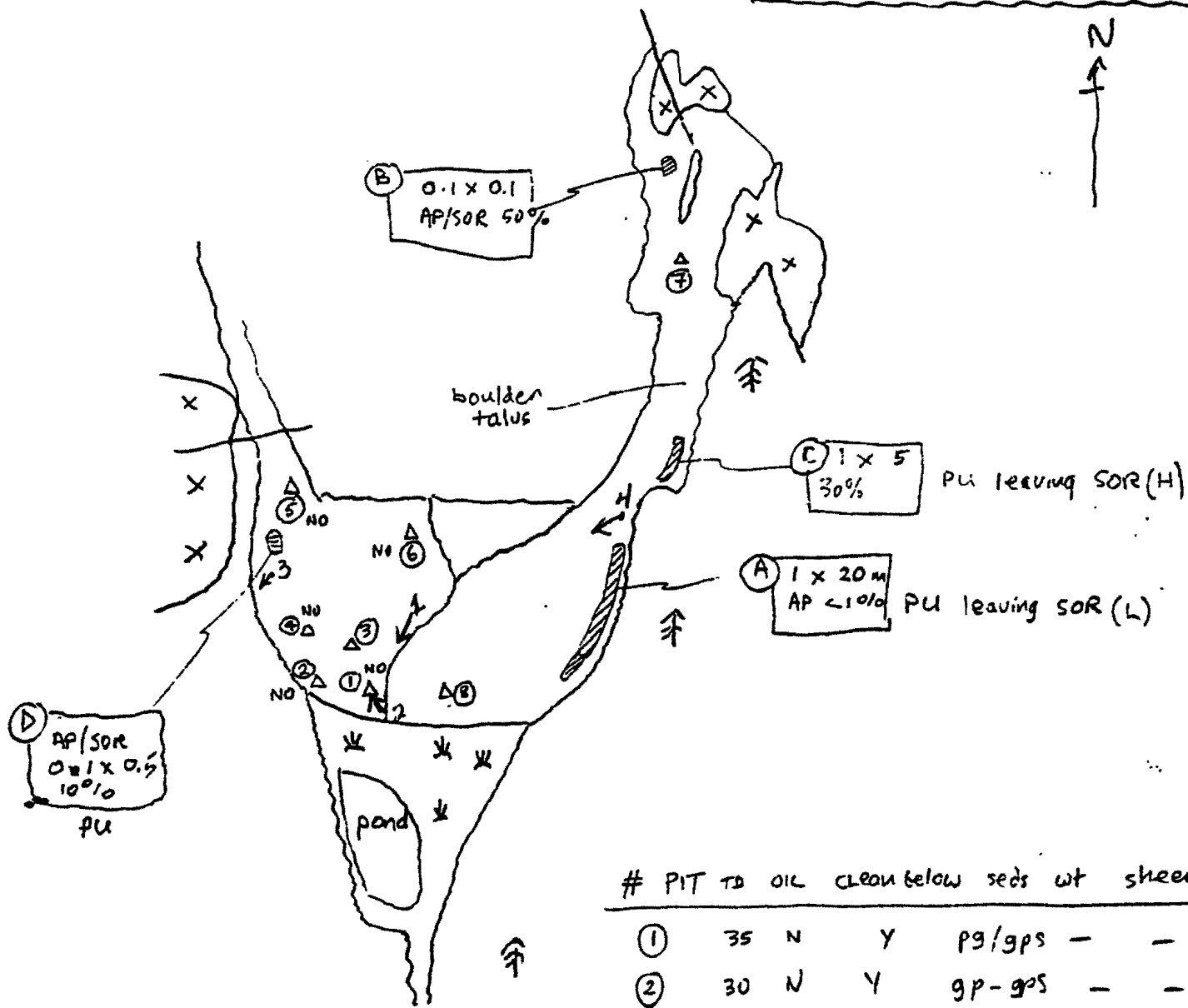
EV-012-A

05/02/91

OG Map

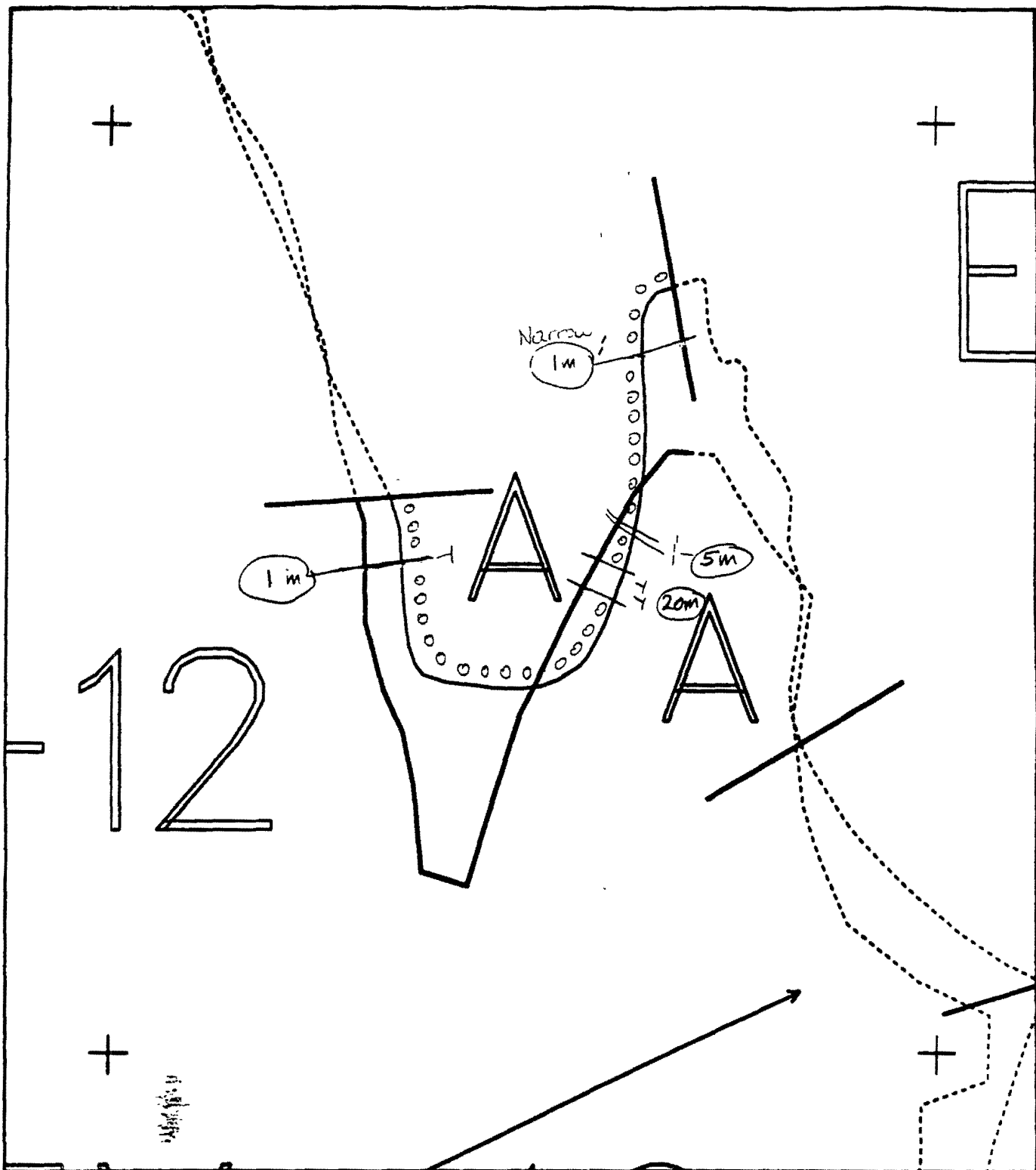
D.I. Little

0745 — 0845



PIT TO OIL clean below seeds wt shreen level

①	35	N	Y	pg/gps	—	—	UITZ
②	30	N	Y	gp-gps	—	—	SUTZ
③	25	N	Y	gp-gps	—	—	UITZ
④	30	N	Y	gp-gps	—	—	UITZ
⑤	20	N	Y	cp-gps	—	—	MITZ
⑥	25	N	Y	pg-gs	—	—	LITZ
⑦	20	N	Y	bc p-gps	—	—	MITZ
⑧	25	N	Y	pg-gps	—	—	UITZ



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

EV012 A

ADEC Subsegment Length: 887m

METERS

0 100 200

AK State Plane Zone 4
 pv012a



Subdivision Field Map

Map Key: PVSEV012A

Name: DAVID LITTLE

Date: 05/02/91

Date Entered:

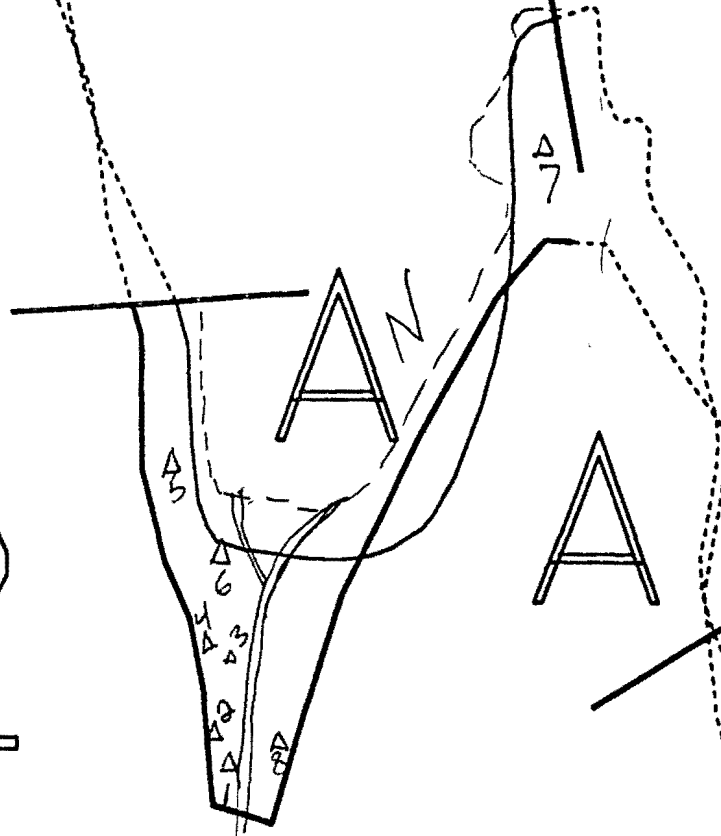
REVISED: MC 5/9/91
 revised 5/8/91 KC

ADEC comment sheet cont..

EV012A - May SAP

ASC# - uncatalogued

12



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

EV012 A
ADEC Subsegment Length: 667m
METERS

6 100 200
AK State Plane Zone 4
psv012a



Subdivision Field Map

Map Key: PWSEV012A

Name: Aimee Weseman

Date: 5/12/91

Date Entered:

MAYSAP FIELD SHORELINE COMMENT SHEET



TEAM NO. 6 SEGMENT EV-012 SUBDIVISION A DATE 05/02/91

ADEC / ADFG

NAME Aimee Weseman

SIGNATURE Aimee Weseman

☐ NTR ☒ Treatment Recommended Anadromous Fish Stream, Commercial Tourism
The areas in need of treatment at this site are A & C, the heavier contaminated sediment being located in C. Located in a somewhat protected area of the beach, the oil is still in a liquid state & slopes generally down towards the stream. Approximately 50% of the SOR(H) was removed. The remaining heavily oiled sediments should be manually removed & lighter oily sediments-filled

EXXON

NAME RANDALL K. BOYER

SIGNATURE Randall K. Boyer

☒ NTR Oiling conditions on this subdivision have improved significantly this year. 1990 treatment and weathering have had an effect. VECO TREATED SURFACE OILING CONDITIONS THROUGH COLLECTION AND DISRUPTING THE SURFACE. LOW CONCENTRATIONS IN SMALL OILED (EOR) AREAS WARRANT NO FURTHER TREATMENT. AREAS OF AP THAT PREVIOUSLY EXISTED HAVE BEEN REDUCED TO RESIDUE. THIS MEDIUM ENERGY ZONE EXHIBITS HEALTHY BGA THROUGH OUT THE BEACH FACE.

LANDMANAGER

NAME CHARLES SELANDOFF OF CHENEBA BAY

SIGNATURE Charles Selandoff

☐ NTR Observed oil in test pits along side of stream and shore berm. Also a lot of tar balls was noticed in the heavier rocks. Oily debris on storm berm should be picked up manually (at the mouth of stream). It is my recommendation that this area be more thoroughly cleaned-up.

USCG/NOAA

NAME CWD SPURR / Rebecca Hoff

SIGNATURE R.P. Spurr / Rebecca Hoff

☒ NTR Small patches of remaining asphalt in the upper intertidal were picked up, leaving some surface oil residue that should weather fine naturally. No oil was found near the anadromous stream.

EVO12A

5/15/91 $\frac{1}{2}$

These comments are to be put into the workcopy only. They constitute a quick discrepancy check for OG vs Habitat assessments among corresponding sites.

Hopefully both sides of the assessment can be evaluated.

EVO12A 22UNCAT04 Review?

This was a foot survey, not aerial.

<u>HAB</u>		<u>OG</u>
Site 1		Site A
25' x 5 m, AP, SON	- Δ -	1 x 20 m, AP
20%		30%
Site 2		Site C
20 x 5, AP, SON	- Δ -	1 x 5, AP
20%	- Δ -	< 1%

1991 STREAM FILE LOG HABITAT

STREAM CATALOG # : 226-uncat-04
STREAM NAME : Evans Island

LOCATION : P.W.S.
SEGMENT : EV-012A

[illegible]

ADF&G OIL SPILL RESPONSE MONITORING

ASC# uncatalogued

Date: 6/30/91

Stream Name: _____

Observer: Aimee Weseman

Segment-Sub Unit EV12A

Location: N.Tip Evans I-1st Cove

Anad. Stream Permit Issued? Y ☐ N ☒

Date: General Permit Issued

Work Order Issued: Y ☐ N ☒

Date: was up for re-assessment

Demob Date: 6/30/91

Oil Characteristics (circle appropriate ones)

Surface: AP, MS, TB, ☒ SOR, ☒ CV, ☒ CT, ST, FL, DB, None
 Subsurface: OP, HOR, ☒ MOR, ☒ LOR, ☒ OF, TR, None

Treatment Techniques:

- ☒ Manual Removal
- ☒ Manual Raking
- Spot Wash
- Other

- Bioremediation & Type
- Mechanical Tilling
- Header Flood (Hot/Cold)

Crew Size: 5

Lbs. or Bags of Oil/Sediment Removed 3^{geo} bags = total 10 geo bags for subsegment in '91

Other Agency Reps, and Names: Leigh Carlson, Marsha Hall-ADNR
Dianne Munson, Dennis Harwood-AD&C

Photos

Y ☐ N ☒

Roll #

Frames

Video

Tape #

Start

End

NO

Sediment/Oil Samples (Y-N)

Collection Number

Purpose of Trip * treatment

* Form designed primarily for cleanup inspection trips, but should be used for any field trips, i.e., to check on bird rookeries, seal haulouts, special habitat areas, etc.

Describe extent of remaining oil (any comments on expected completion of cleanup).

Stream sediment was demohed. - could be re-assessed this fall or next spring

Known oil deposits were removed as much as possible to L502 - should be in good shape.

Remaining oil could be manually filled at some point

Comments: (Are work order procedures being followed?, etc.)

No work order issued

Did not locate small patch of Ap on eastern point shown in MAXSAP sketch

A:OPRESP
April 2, 1991

ADF&G OIL SPILL RESPONSE MONITORING

ASC# Uncatalogued

Date: 6/27/91

Stream Name: _____

Observer: Aimee Weseman

Segment-Sub Unit EV12A

Location: North Evans Island

Anad. Stream Permit Issued? Y ☒ N

Date: _____

Work Order Issued: Y ☒ N

Date: _____

Demob Date: _____

Oil Characteristics (circle appropriate ones)

Surface: ☒ AP, MS, TB, ☒ SOR, CV, CT, ST, FL, DB, None
Subsurface: OP, HOR, ☒ MOR, LOR, OF, TR, None

Treatment Techniques:

Manual Removal ☒
Manual Raking ☒
Spot Wash
Other

Bioremediation & Type
Mechanical Tilling
Header Flood (Hot/Cold)

Crew Size: 5 - same as agency Reps.

Lbs. or Bags of Oil/Sediment Removed 7 bags

Other Agency Reps, and Names: Leigh Carlson, Marsha Hall - DNR
Tom Mathews, Dianne Munsen - ADF&G

Photos Y ☒ N

Roll #

Frames

Video

Tape #

Start

End

Sediment/Oil Samples (Y ☒ N)

Collection Number

Purpose of Trip * re-assessment / treatment

* Form designed primarily for cleanup inspection trips, but should be used for any field trips, i.e., to check on bird rookeries, seal haulouts, special habitat areas, etc.

Describe extent of remaining oil (any comments on expected completion of cleanup).

Obvious oil remaining includes the ^{small} patch in area B of AP/SOP & some HSOR sediments in area C. Site was not demobed - DFC crew plans to return & complete

Comments: (Are work order procedures being followed?, etc.)

Bily sediments in areas A, C were removed. Only small remnants of tar mat remained in sec C, it having been worked on MaysAP. Area A had not been been touched, so the majority of the oil came from there. A scattered, thin lense was discovered in the LUTZ to the west of area A - & looked to be a continuation of it. This was removed & tilled.

A:OPRESP
April 2, 1991

0 50 100
meters

KNIGHT ISLAND PASSAGE

EV-012-A

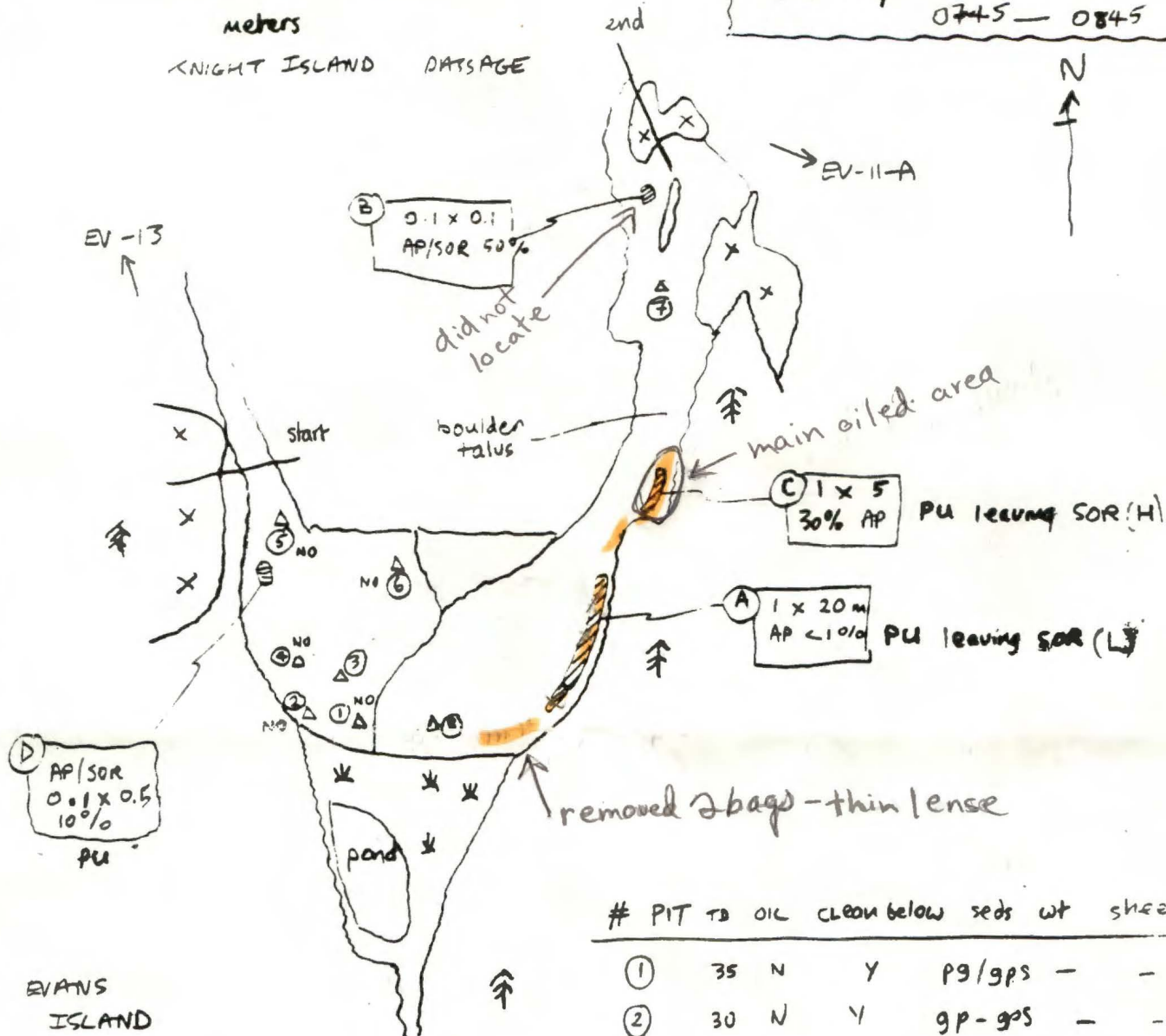
05/02/91

OG Map

D.I. Little

0745 - 0845

N



#	PIT	TO	OIL	CLEAN	below	seeds	wt	sheen	area
①	35	N	Y	pg-gps	-	-	-	-	MITZ
②	30	N	Y	gp-gps	-	-	-	-	MITZ
③	25	N	Y	gp-gps	-	-	-	-	MITZ
④	30	N	Y	gp-gps	-	-	-	-	MITZ
⑤	20	N	Y	cp-gps	15	-	-	-	MITZ
⑥	25	N	Y	pg-gs	20	-	-	-	MITZ
⑦	20	N	Y	bcp-gps	15	-	-	-	MITZ
⑧	25	N	Y	pg-gps	-	-	-	-	MITZ

areas treated

6-27-30 1991

Reviewed by 5/11/91

reviewed

Map 6-05 + 1-4

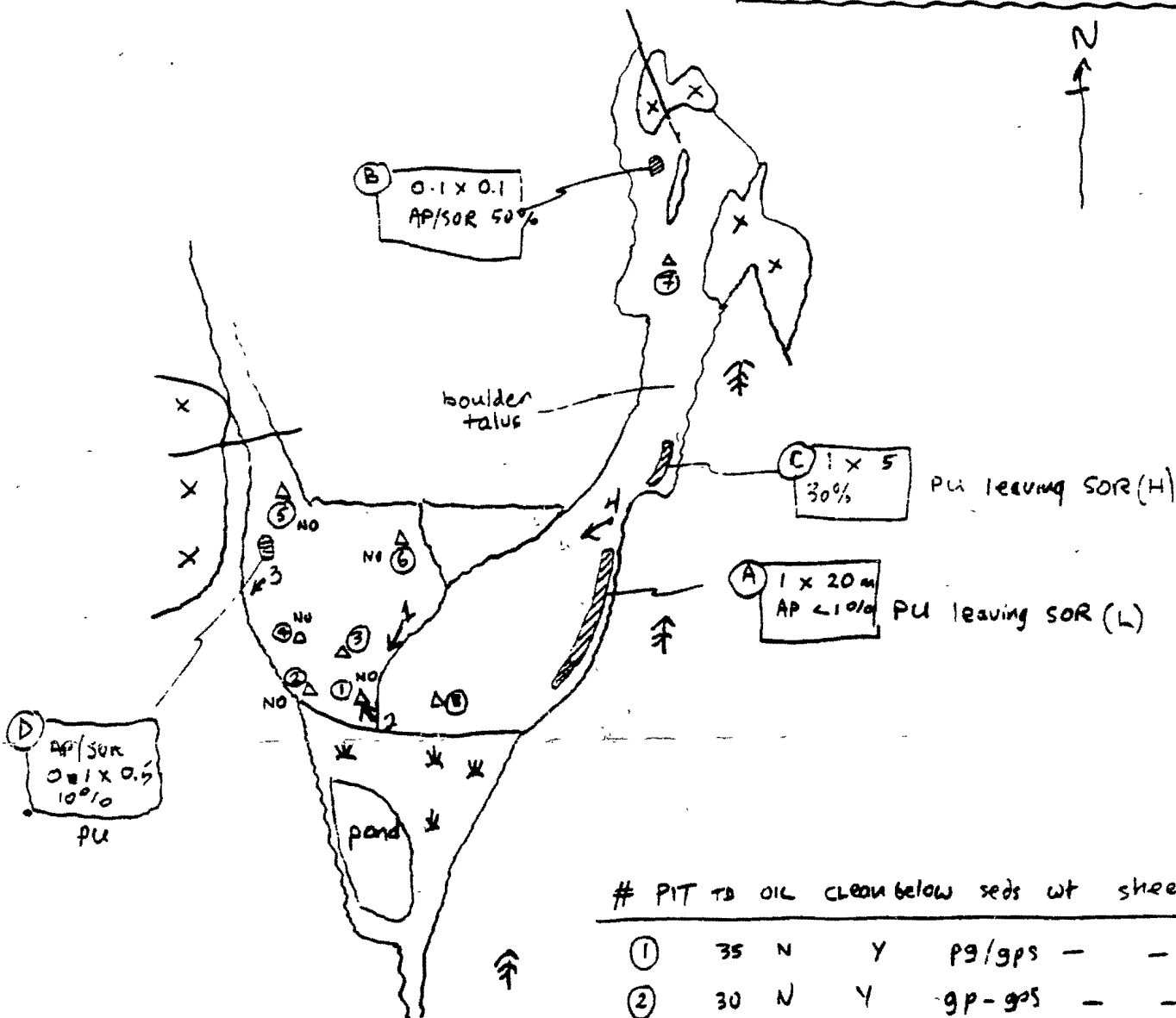
EV-012-A

05/02/91

OG Map

D. I. Little

0745 - 0845



#	PIT	TD	OIL	clean below	seeds	wt	screen	level
①	35	N	Y	pg/gps	-	-	UITZ	
②	30	N	Y	gp-gps	-	-	SUTZ	
③	25	N	Y	gp-gps	-	-	UITZ	
④	30	N	Y	gp-gps	-	-	UITZ	
⑤	20	N	Y	cp-gps	-	-	MITZ	
⑥	25	N	Y	pg-gs	-	-	LITZ	
⑦	20	N	Y	bc-p-gps	-	-	MITZ	
⑧	25	N	Y	pg-gps	-	-	UITZ	

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: 5/2/91 16) HIGH TIDE TIME: _____ 22) TEAM RECORDER: Tom Crowe
- 5) START TIME: 0736 17) HIGH TIDE HTS: _____ 23) OBSERVERS: Aimee Wiseman
- 6) STOP TIME: 0900 18) LOW TIDE TIMES: 1000-1030 24) AGENCY: ADF&G
- 7) SEGMENT #: FVBA 19) LOW TIDE HTS: -.5 25) PHOTOS TAKEN: Y N
- 8) K-UNIT: _____ 20) TIDE HT AT SURVEY: +20+1 ROLL #: _____ FRAMES: _____
- 9) LAT: _____ Ebb Slack Flood Slack 26) VIDEO TAKEN: Y N
- 10) LONG: _____ 21) USCG QUAD: _____ TAPE # _____
- 11) ASC #: UNCLASSIFIED START: _____ STOP: _____
- 12) STREAM NAME: _____ 27) SAMPLES TAKEN? Y N
- 13) LOCATION: N Evans I 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	25	5	125	20	3 to 5		AP/SOR
SITE 2	20 M	5	100	20	3 to 5		AP/SOR
SITE 3							
SITE 4							
SITE 5							

29) OVERALL OIL IMPACT:

H = >6m band with $\geq 50\%$ oil coverageM = >6m band with $\leq 50\%$ oil coverage or $\geq 3m$ to $\leq 6m$ with $\geq 10\%$ oil coverageL = $\leq 3m$ band with $\geq 10\%$ oil coverageVL = $\leq 10\%$ oil coverage regardless of band width

N = No oil observed

33) ANADROMOUS FISH PRESENT: Y N30) OIL IN STREAMBED: Y N31) OIL ON BEACH ADJACENT TO MOUTH: Y N

32) SUBSTRATE TYPE (PERCENT):

Bedrock _____ Boulder 10% Gravel 85% Sand _____ Cobble 5% Mud/silt _____35) COMMENTS: CHARLES PETER - SELIANOFF/CHENEKA REPMOST ALL OF AP/SOR SEDIMENTS IN LITTE SCATTERED IN BOULDER AREA.SUGGEST MANUAL TILLING AND SMALL AMOUNT OF AP BEADUAL

34) WILDLIFE OBSERVATION

Species Number

DEAD OTTER - 02 DEER CARCASSESdead shrimp on beach / 0rock blennies 3

36) PHOTOLOG

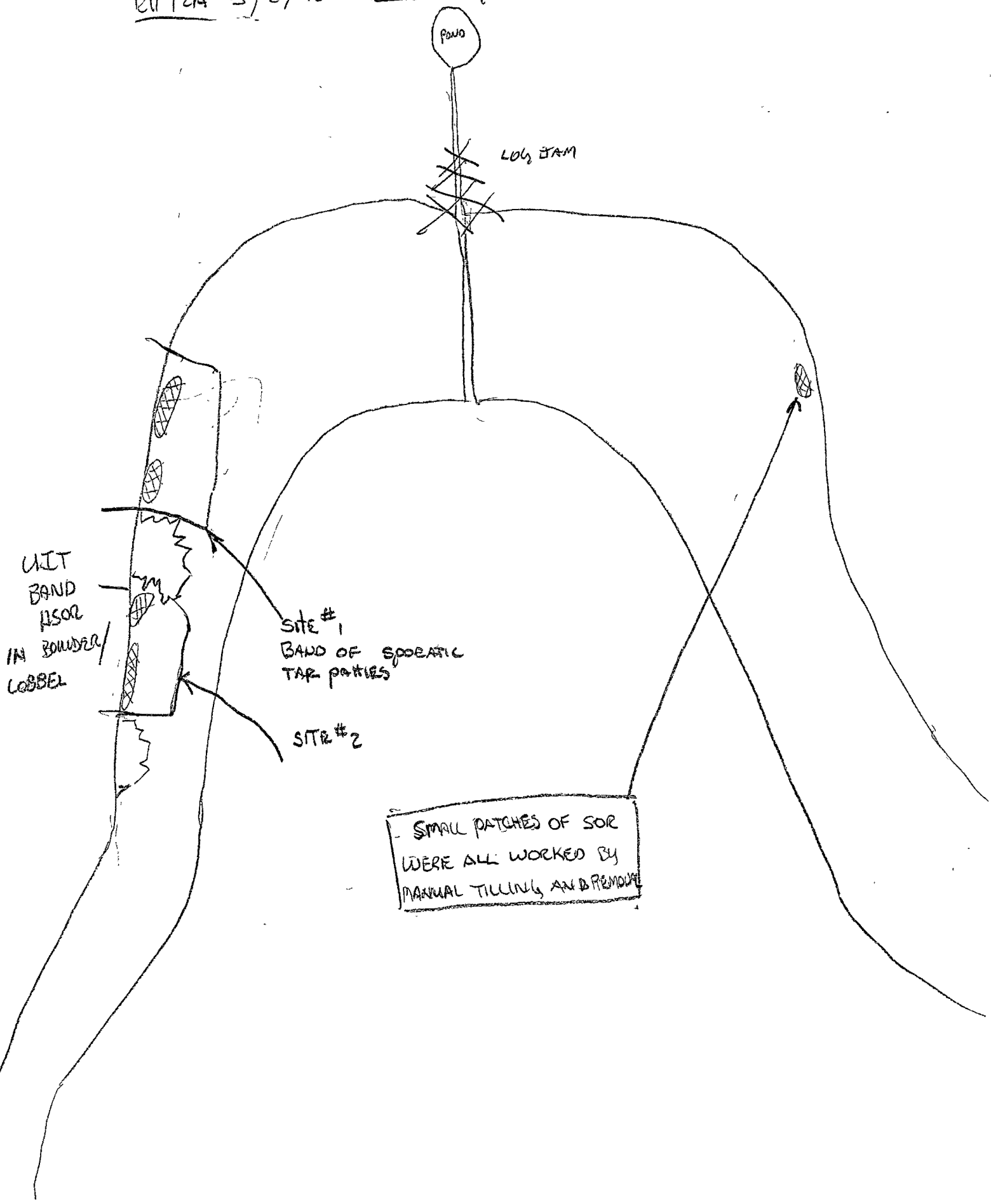
FRAME(S)

DESCRIPTION

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

A:EDDATFO
 April 3, 1991

EU 12A 5/2/90 UNCLASSIFIED



PAGE 1 OF 1

No subsurface oil was observed in 8 logged pits and numerous shallow "scrapes."

0 50 100
meters

KNIGHT ISLAND PASSAGE

EV-012-A

05/02/91

OG. Map

D. L. Little

0745 — 0845

end

N

EV-11-A

EV-13

(B) 0.1 x 0.1
AP/SOR 50%

start

boulder
talus

(C) 1 x 5
30% AP

PU leaving SOR (H)

(A) 1 x 20 m
AP < 10%

PU leaving SOR (L)

(D) AP/SOR
0.1 x 0.5
10%

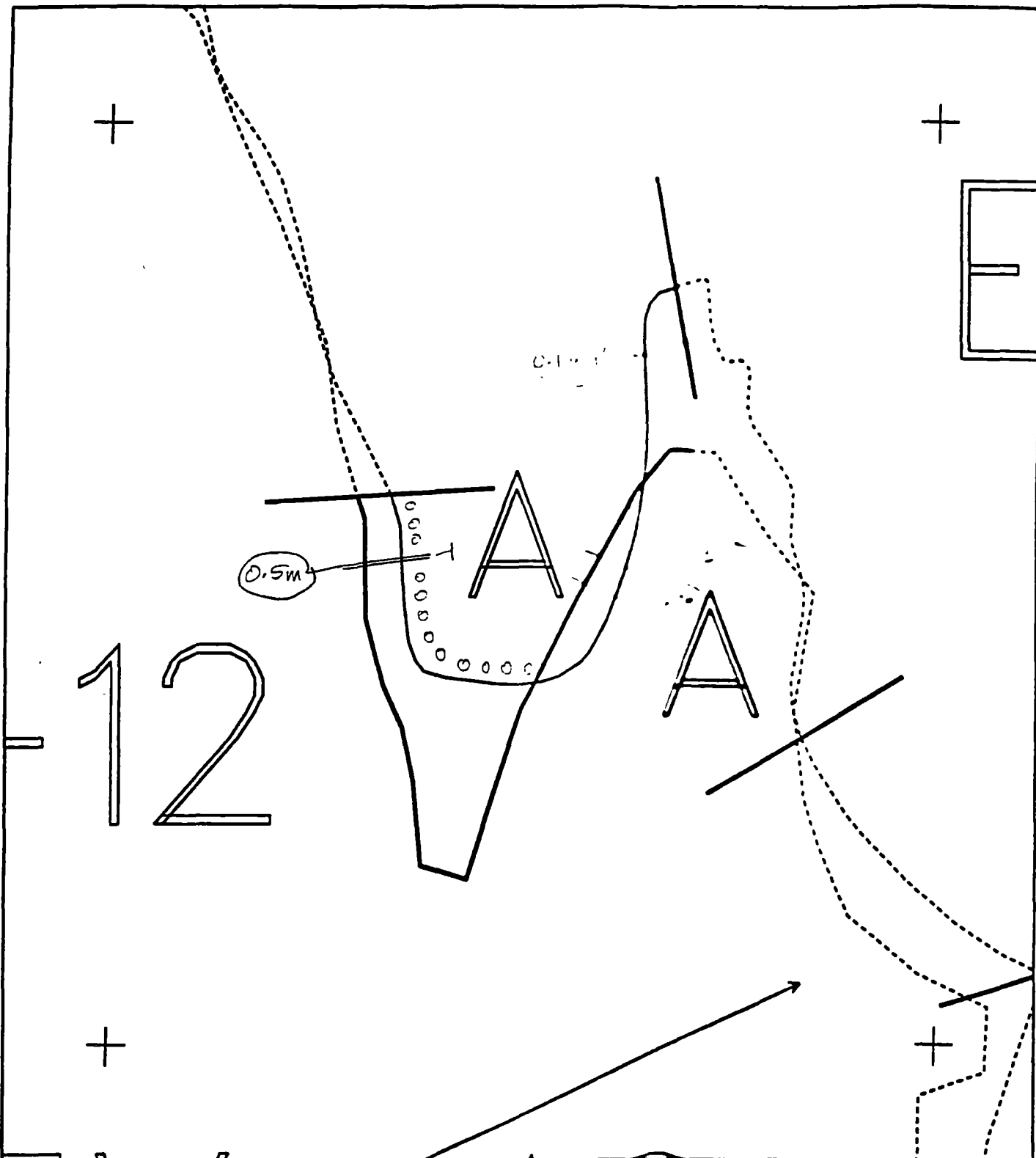
• PU

EVANS
ISLAND

pond

ANADROMOUS
STREAM

#	PIT	TD	OIL	clean below	seeds	wt	screen	level
①	35	N	Y	pg/gps	—	—	UITZ	
②	30	N	Y	gp-gps	—	—	SUTZ	
③	25	N	Y	gp-gps	—	—	UITZ	
④	30	N	Y	gp-gps	—	—	UITZ	
⑤	20	N	Y	cp-gps	15	—	MITZ	
⑥	25	N	Y	pg-gps	20	—	LITZ	
⑦	20	N	Y	bcp-gps	15	—	MITZ	
⑧	25	N	Y	pg-gps	—	—	UITZ	



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

EV012 A

ADEC Subsegment Length: 667m
 METERS

5 100 200

AK State Plane Zone 4
 prv012a



Subdivision Field Map

Map Key: PWSEV012A

Name: DAVID LITRE

Date: 05/02/91

Date Entered:

MAYSAP BIOLOGICAL SUMMARY FORM

TEAM # 6 DATE 5/2/91
 SEGMENT # EV-012 TIDAL HEIGHT(Range) +4 1/4 to +1 ft
 SUBDIVISION A BIOLOGIST T.R. Schroeder
 SEA STATE 1-2 ft. chop WIND SPEED/DIRECTION E-15 mph
 PHOTOGRAPHS: ROLL # FRAME #

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

(A, C & D) = Intertidal area around and below these areas
 very clean and unproductive. Black sand/shale
 beach probably is in continual shifting mode
 during and major northerly storms.

(B) = Extreme eastern end of this section has a very
 thick lush growth of fucus help, red and green
 algae. Barnacles, sand fleas, snails and rock
 blennies are abundant in this area. Larger,
 more stable rocks and protective reef are
 providing an excellent shelter for numerous
 animals.

In general this beach is one of the least productive
 surveyed to date. Most likely this is due to the
 substrate composed of shale to fine black sand
 that does not provide a stable environment.

WILDLIFE OBSERVATIONS

TO BE COMPLETED IN ALL SUBDIVISIONS

BIRDS	# OF SPECIES	TOTAL BIRDS	FISH OBSERVED SPECIES PRESENT
Eagles			12 dead shrimp
Seabirds			on beach
Waterfowl	2	7	3-rock blennies
Gulls/Kittiwakes	1	3	
Shorebirds			
Corvids			
Other Birds			

MARINE MAMMALS	# OBSERVED	LAND MAMMALS SPECIES	# OBSERVED
Sea Otters	1 dead	Lots of deer tracks	
Pinnipeds(specify)			
Whales(specify)			

Shoreline subdivision map showing important biological features attached.

0 50 100
meters

EV-012-A 5/2/91
Bio. Map J.R. Schroeder
0745-0845

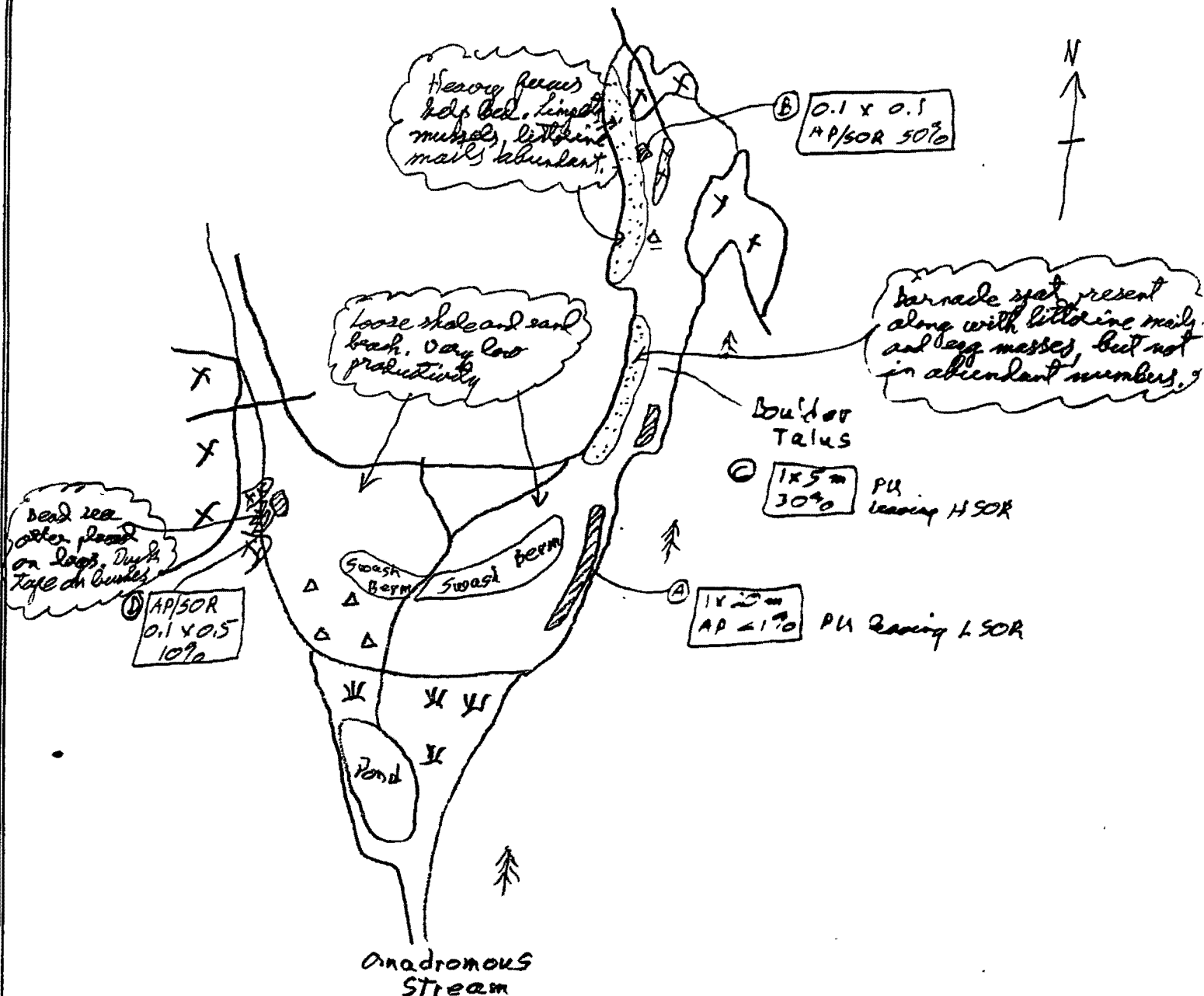


Photo locations

Maypap 6-05 # 1-4

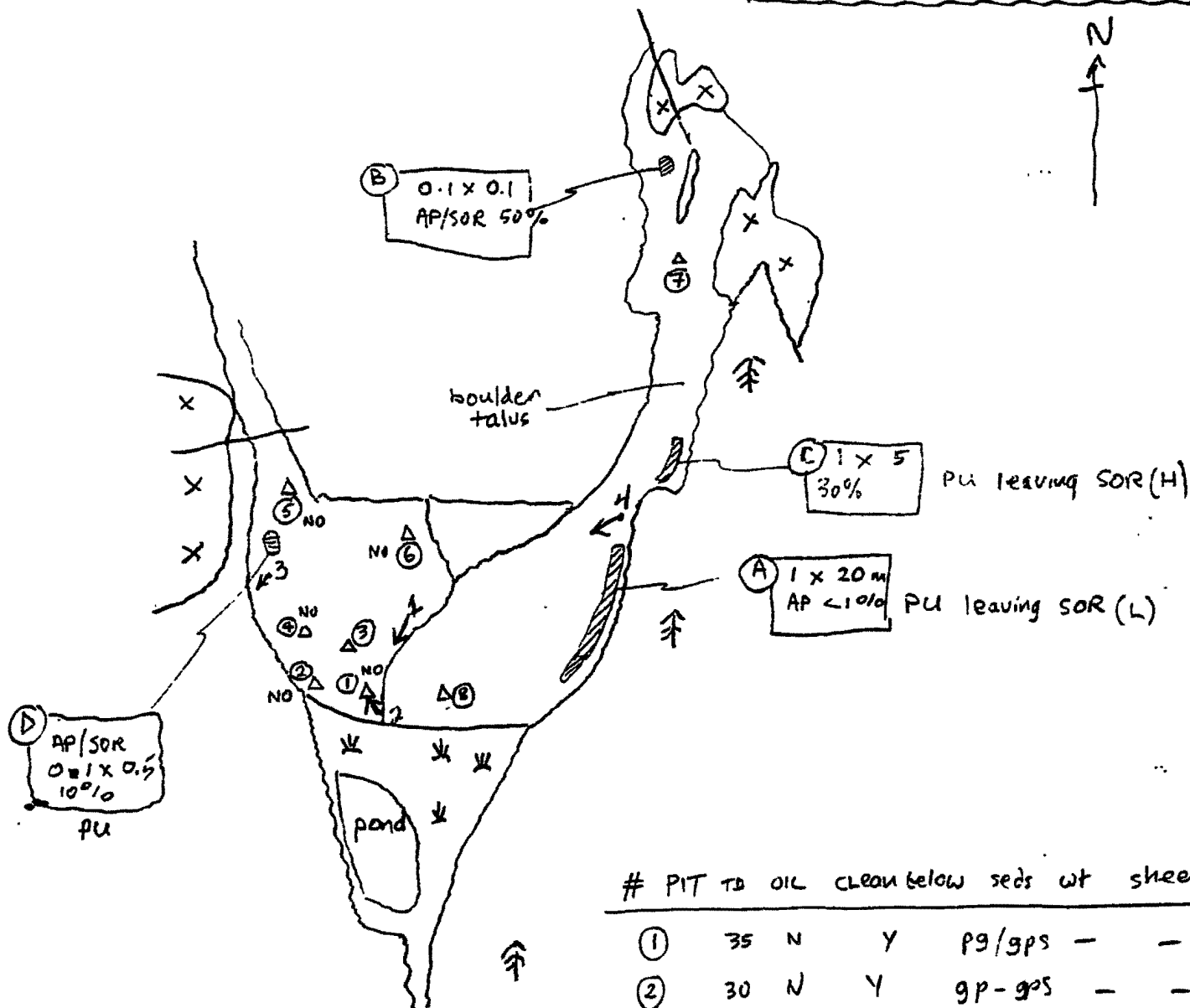
EV-012-A

05/02/91

OG Map

D. I. Little

0745 - 0845



#	PIT	TD	OIL	clean below	seeds	wt	screen	level
①	35	N	Y	pg/gps	-	-	UITZ	
②	30	N	Y	gp-gps	-	-	SUTZ	
③	25	N	Y	gp-gps	-	-	UITZ	
④	30	N	Y	gp-gps	-	-	UITZ	
⑤	20	N	Y	cp-gps	-	-	MITZ	
⑥	25	N	Y	pg-gs	-	-	LITZ	
⑦	20	N	Y	bc p-gps	-	-	MITZ	
⑧	25	N	Y	pg-gps	-	-	UITZ	

ADEC comment sheet cont...

EV012A - May SAP

ASC# - uncatalogued

-12

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

EV012 A

ADEC Subsegment Length: 667m

METERS

AK State Plane Zone 4
psv012a



Subdivision Field Map

Map Key: PWSEV012A

Name: Aimee Woseman

Date: 5/12/91

Date Entered:

MAYSAP FIELD SHORELINE COMMENT SHEET

TEAM NO. 6 SEGMENT EV-012 SUBDIVISION A DATE 05/02/91

ADEC / ADFG

NAME Aimee Weseman

SIGNATURE Aimee Weseman

- ☐ NTR ☒ Treatment Recommended Anadromous Fish Stream, Commercial Tourism
- The areas in need of treatment at this site are A & C, the heavier contaminated sediments being located in C. Located in a somewhat protected area of the beach, the oil is still in a liquid state & slopes generally down towards the stream. Approximately 50% of the SORCH was removed. The remaining heavily oiled sediments should be manually removed & lighter oily sediments-filled

EXXON

NAME RANDALL K. BOYER

SIGNATURE Randall K. Boyer

- ☒ NTR Oiling conditions on this subdivision have improved significantly this year. 1990 treatment and weathering have had an effect. VECO TREATED SURFACE OILING CONDITIONS THROUGH COLLECTION AND DISRUPTING THE SURFACE. LOW CONCENTRATIONS IN SMALL OILED (EOR) AREAS WARRANT NO FURTHER TREATMENT. AREAS OF AP THAT PREVIOUSLY EXISTED HAVE BEEN REDUCED TO RESIDUE. THIS MEDIUM ENERGY ZONE EXHIBITS HEALTHY BETA THROUGH OUT THE BEACH FACE.

LANDMANAGER

NAME CHARLES SELANOFF OF CHENEGA BAY

SIGNATURE Charles Selanoff

- ☐ NTR Observed oil in test pits along side of stream and shore berm. Also a lot of tar balls was noticed in the heavier rocks. Oily debris on storm berm should be picked up manually (at the mouth of stream). It is my recommendation that this area be more thoroughly cleaned-up.

USCG/NOAA

NAME CWD SPURR / Rebecca Hoff

SIGNATURE R.P. Spurr / Rebecca Hoff

- ☒ NTR Small patches of remaining asphalt in the upper intertidal were picked up, leaving some surface oil residue that should weather fine naturally. No oil was found near the anadromous stream.

• STREAM TREATMENT REPORT
Alaska Department of Fish and Game
Tom Crowe

June 22, 1990

ASC # None

Segment EV-012

Observations The intertidal zone surrounding the stream channel consists mostly of small-grained material. The site has moderate exposure to wind and waves. On the left side of the channel, in the upper-intertidal zone, tar mats are scattered within a 20 m x 2 m area and appear to be part of a buried oil lens. Right side of the channel a 25 m x 1 m lens (5 - 10 cm thick) of mousse is buried beneath 5 - 15 cm of clean sand.

0930

I arrived at the stream site on the TINGLET PRINCESS. The crew was working on removing a large oil lens adjacent to the stream. This lens of oil was covered by up to one ft. clean gravel and the crew had to excavate to remove it. Larry Olson (EXXON) was very cooperative in removing it although it ended up being a continuous band that ran 20 yards from the stream channel. After the OP gravel were removed customblen was applied to the excavated area and one inch of clean gravel raked over the top.

The work that was completed was above and beyond the recommendations of the Tag Anadromous stream work order. Work was completed to the satisfaction of the DEC representative (Wes Gormly) and ADF&G monitor Tom Crowe.

13 supersacks of oiled sediment were removed.

ACE 7237717

4213
8

ADEC DEMOBILIZATION REPORT
FOR INIPOL AND CUSTOMBLEN TREATMENT

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

Attn: John Bauer
FAX 265-4666

From: _____ (please print)

RE: SEGMENT NUMBER EU-12 SUBSEGMENT NUMBER A (AND STREAM TO WEST, UNCATALOGED)

ADEC REP JEFF GINALIAS USCG REP Chris Van Pelt

EXXON REP Chris Katsimanolis BOAT NAME/SQUAD NUMBER Arctic Salvor

COPS: Dave Bellow CG: Cynthia Dillon SQUAD # 4

Site #	Length (along shore m)	Area m ²	Inipol (gallons)	Customblen (lbs.)
--------	---------------------------	------------------------	---------------------	----------------------

1	83 x 17 @ 90%	1270	—	259
---	---------------	------	---	-----

2	12 x 4 @ 100%	48	3.5	1.5
---	---------------	----	-----	-----

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

Yes - THIS IS A 3rd treatment

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

Residual in sediments, some stains on boulders in SE corner. Some of the residual in sediments is subsurface 4-8 cm. Light O/R to GF. Appears to run fairly constant across segment.

Additional Comments (keep objective)

Reheat site - Manual completed by Adele Sanders crew just prior to bio application.

- NO work near stream bed -

signature _____

Date and time of demobilization from segment 8-31-90 16:36

Shoremon\Demob.bio 55/10/90

ADEC BIOREMEDIATION DAILY REPORT

1813
6DATE: 8-31-90ADEC Monitor: JEFF GINALIAS

TIDES: TIME: HEIGHT:

Low	_____	_____
High	_____	_____
Low	_____	_____
High	_____	_____

WEATHER: Cloudy Rain Fog Sun

TEMP: 65° SEA COND: Calm

WIND DIR: N-NE-E-SE-S-SW-W-NW

WIND SPEED 0-15 16-30 30+USCG Chas VAN PeltExxon Chas KatsimpalisOOPS DAVE BellowOther CVC: STEVE WARDOGS Cynthia Dillon / DALE PARENT

Segment	Sub	No. sites	Inipol (gal)	Custom (lbs.)	Comments
---------	-----	-----------	--------------	---------------	----------

DA-Q1	A	1	6.5	16.5	2nd treatment - Some tar mat / heavy O/R Removal
		2	-	20.5	
		3	-	4.5	
		4	17.5	8	
		5	-	85	

EV-12	A	1	-	259	3rd treatment - FAIRLY CONSTANT LIGHT O/R - OF SUBSURFACE OIL ACROSS SEGMENT
		2	3.5	1.5	

EV-15	A	1	2.5	1	2nd treatment See Demob Report
		2	3	1.5	

EV-25	A (ANAD)	1	-	128	2nd treatment AWAY STREAM - IF WORKED IN SPRING 1991, MIGHT WANT TO CONSIDER INIPOL
		2	-	122	

EV-S3	B	1	7.5	4	2nd treatment See Demob report
-------	---	---	-----	---	-----------------------------------

\shorelin\rowann\biorept 8/7/90

- ALL MAPS PROVIDED COURTESY OF C. DILLON W/C

ACE 7237720

ANADROMOUS FISH STREAMS/OILING CONDITION
PWS

Segment # EV12A ASC# uncatalogued Location north side Evans I
Date 8/4/90 Recorder/Observer Aimee Weseman ^{1st cove from eastern edge}
Oil in streambed none sighted Oil on streambanks none sighted
Oil within 50m of mouth yes Anadromous Fish present none sighted

Description of oil and comments

West side of stream - 4m long x 1m wide patch of tarmat in UITZ
in front of storm berm

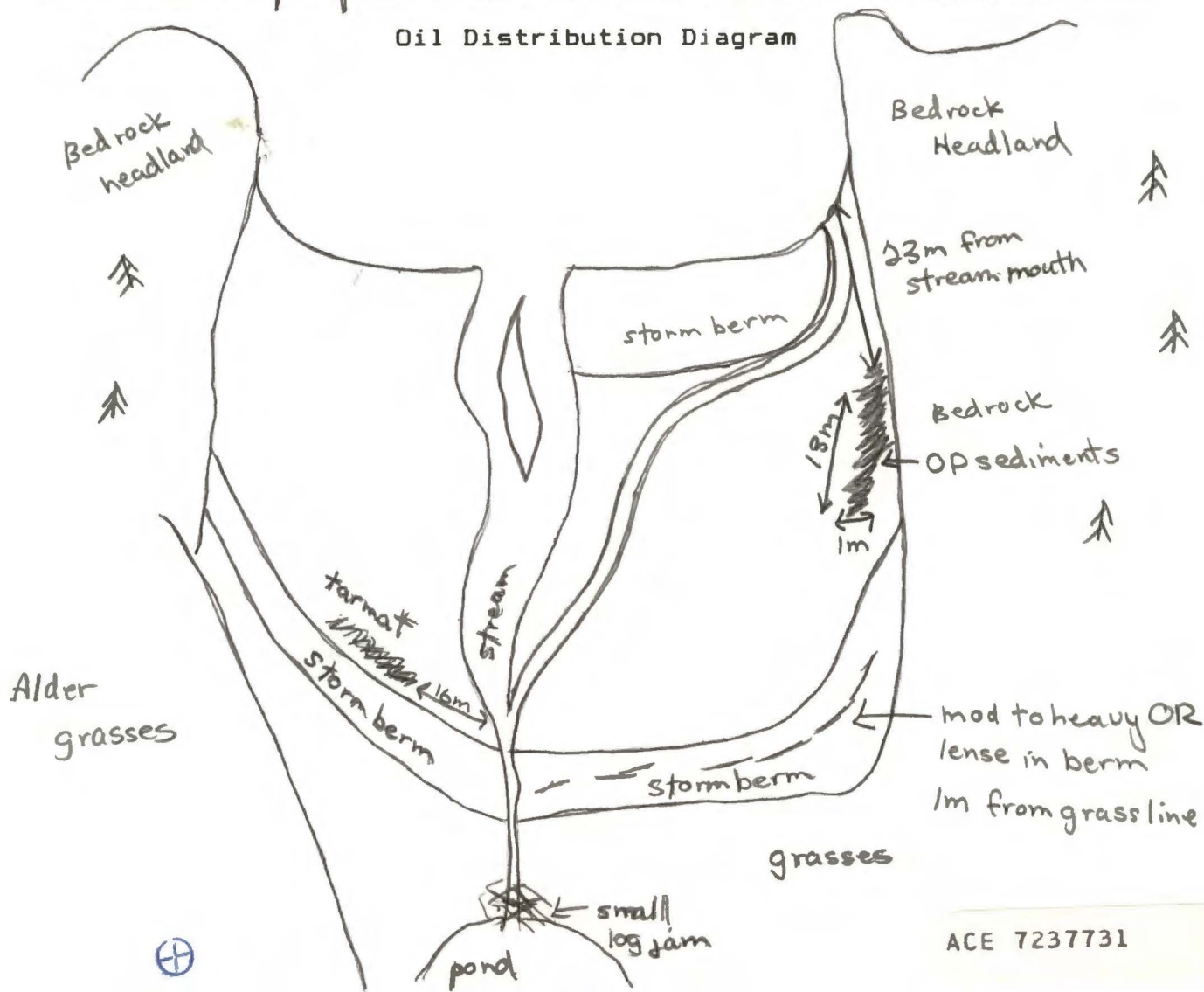
East side - OP sediments 13m long x 1m wide - turns into
subsurface oil lense in storm berm

Rec - manual removal of OP sediments by rock wall on east.
" " " tarmat on west side UIZ

Possible filling of storm berm to expose oil lense

Re-assess in Spring lots of deer tracks - No INIPOL rec.

Oil Distribution Diagram



ANADROMOUS FISH STREAMS/OILING CONDITION
PWS

Segment # EV12 ASC# uncatalogued Location west side Euangel
Date 8/4/90 Recorder/Observer Aimee Wageman
Oil in streambed none sighted Oil on streambanks none sighted
Oil within 50m of mouth yes Anadromous Fish present none sighted

Description of oil and comments

West side of stream - 4m long x 1m wide patch of tar mat in UITZ
in front of storm berm

East side - OP sediments 13m long x 1m wide - turns into
subsurface oil lense in storm berm

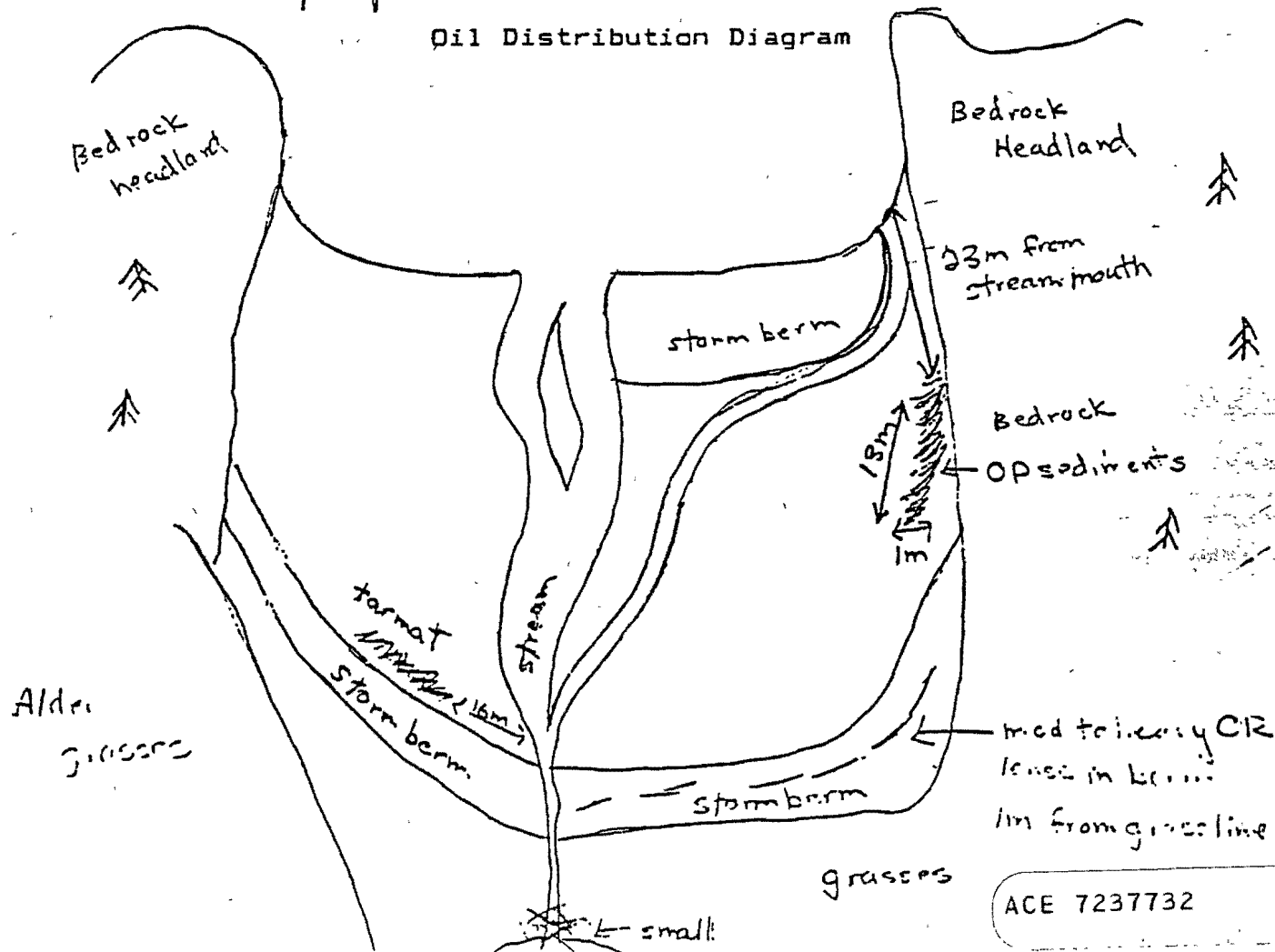
Rec - manual removal of OP sediments by rock wall on east.

" " " " tar mat on west side UITZ

Possible tilling of storm berm to expose oil lense

Re-assess in spring lots of deer tracks. No E/NIPol rec.

Oil Distribution Diagram



ACE 7237732

ASAP survey - 80

JAB

SEGMENT AS / EV-012 SUBDIVISION: A SITE: 1 DATE 8-7-90

IRCC

NAME David Nae NBAA SIGNATURE David Nae NBAA
Don Davis, GM, USCG

☒ YES ☐ NO PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

Area to east of stream was broken up by ASAP crew and contains little free oil. In contrast, a 3x15m area to the west of the stream contains a large amount of mobile oil despite earlier work efforts. This area should be treated (manual removal, bio, raking) in 1990 and checked in 1991.

ADEC

NAME Bob McCreedy SIGNATURE Bob McCreedy

☒ YES ☐ NO PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

An area east of stream approx 3m x 20m light AP and OR oil requires thorough tillage, distributing down beach, and bio remediation. An area west of stream requires manual removal of surface AP and subsurface oil to 20cm followed by thorough tillage and bio remediation. An ASAP Follow-up Recommendations form was submitted calling for these treatment recommendations.

A J MANAGER

NAME Steve Ward CV SIGNATURE Steve Ward

☒ YES ☐ NO PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

Enough oil west of the stream to need more manual in 90. Check Sub Surface oil.

XXON

NAME John Dean SIGNATURE John Dean

☒ YES ☐ NO PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

THE AREA WEST OF STREAM JUSTIFIES ADDITIONAL WORK IN '90 PER "ASAP FOLLOW-UP RECOMMENDATIONS" AND REASSESSMENT IN '91

REVISION NO. 7/8/90

ACE 7237733 H/S

OG Rem. 1

SEGMENT SV_F

SUBOMINO

DATE

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98
99
100

LEGEND

1 A

Pt - No Substation

2 A

Pt - Substation On

CTAC

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

Spotted Distribution

Other Vegetation

1 00

Phase location, direction, and number

ACE 7237734

EVANS ISLAND

Access & remove
AP 1 OP 1 SOR/H
& BIO

8/7/90
SOR/E
10M (ST/S)

8/7/90
PT1

8/7/90
SOR/S (ST/S)
5X1M
BROKEN BY
FIELD CORP

8/7/90
PT2

8/7/90
CU/B
15X3M

8/7/90
STREAM
UNCONTAINED
AS PER ANNO SUMMARY

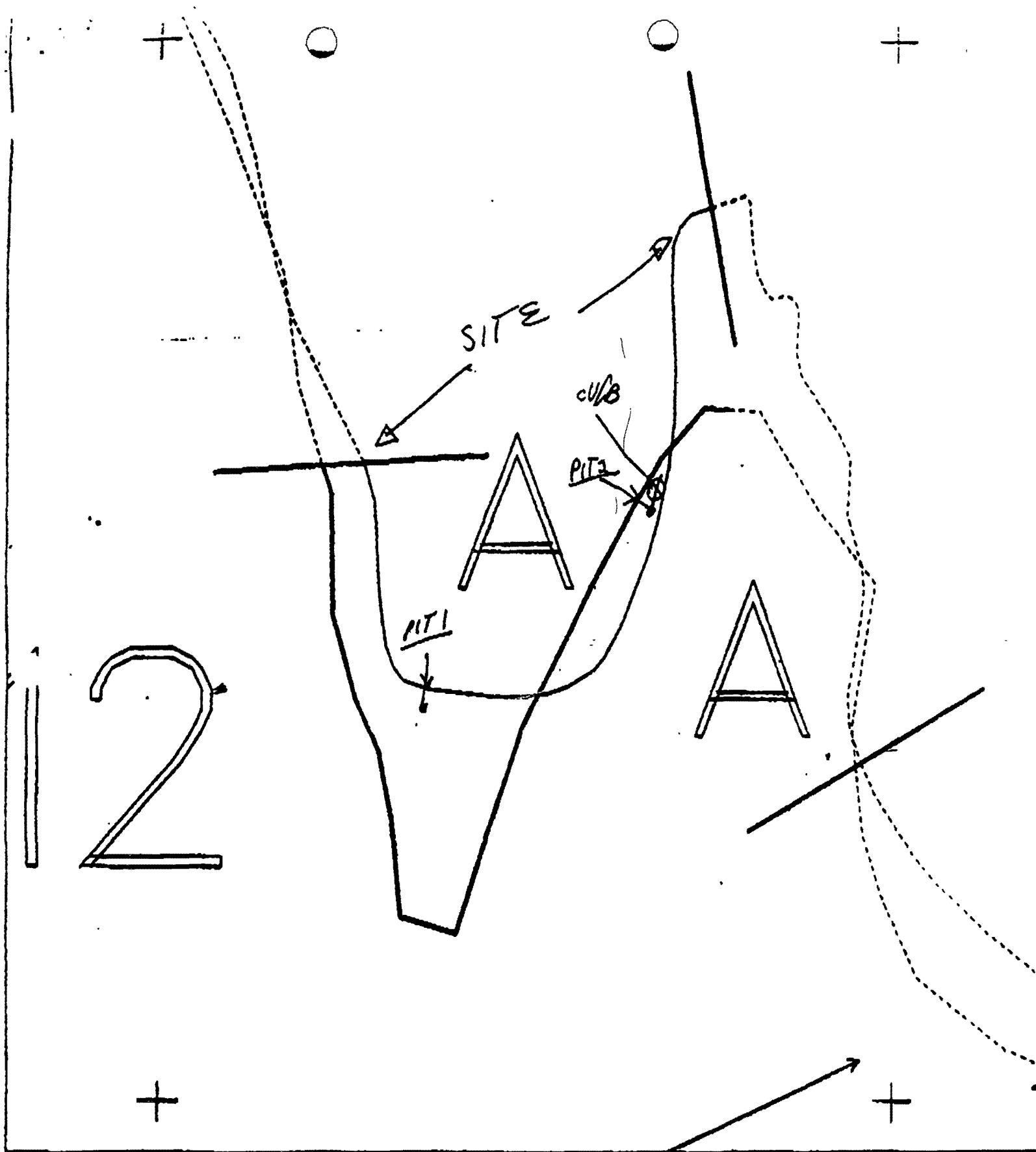
PWS

0 50 100 150
meters

N
North

Character Length (m) AP 8 PO - CV 185 CT - ST - MS 25 PT - TB - FL - NO 332

REVISION 01/10



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

EV-12 A
 ADEC Subsegment Length: 667m
 METERS

0 70 152
 AK State Plane Zone 4 1:2500
 PV-120



Subdivision Field Map
 Map Key: PWSEV-12A
 Name: NAKASHIMA
 Date: 8/7/90
 Date Entered:

ACE 7237736

GENERAL DATA

SEG ID: EV012 SBOV: A SITE: 1 TEAM: 3 DATE: 8/7/90
SITE LGTH 667 OIL CATEGORIES: W - M 15 N - VL 15 NO 637 U -
1991 REASSESSMENT: USCG: Y ADEC: Y LONGR: Y EXXON: Y

SURFACE DATA

CHAR #: 1 OIL CHAR: SOR OIL DIST: CONT - BRKN - PTCH - SPLH 15
TIDAL ZONE: SU - UI X MI - LI -

CHAR #: 2 OIL CHAR: CV OIL DIST: CONT - BRKN 15 PTCH - SPLH -
TIDAL ZONE: SU - UI X MI - LI -

CHAR #: 3 OIL CHAR: ST OIL DIST: CONT - BRKN - PTCH - SPLH 15
TIDAL ZONE: SU - UI X MI - LI -

CHAR #: 4 OIL CHAR: NO OIL DIST: CONT - BRKN - PTCH - SPLH -
TIDAL ZONE: SU X UI - MI X LI X

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

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

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

SUBSURFACE DATA

PAGE 2 OF 2SEGMENT ID: EV012 SUBDIV: A SITE: 1PIT # 1 PIT DEPTH 20 OIL CHARACTER OR OIL INTVAL: FROM 0 TO 7
CLEAN BELOW: Y PIT ZONE: SU - UI X MI - LI -SUBSURF SEDIMENT: BRK - BLD - COB - PEB X GRN X SAN X MUD - VEG -PIT # 2 PIT DEPTH 20 OIL CHARACTER OR OIL INTVAL: FROM 0 TO 17CLEAN BELOW: Y PIT ZONE: SU - UI X MI - LI -SUBSURF SEDIMENT: BRK - BLD - COB X PEB X GRN X SAN X MUD - VEG -PIT # PIT DEPTH OIL CHARACTER OIL INTVAL: FROM TO CLEAN BELOW: PIT ZONE: SU UI MI LI SUBSURF SEDIMENT: BRK BLD COB PEB GRN SAN MUD VEG PIT # PIT DEPTH OIL CHARACTER OIL INTVAL: FROM TO CLEAN BELOW: PIT ZONE: SU UI MI LI SUBSURF SEDIMENT: BRK BLD COB PEB GRN SAN MUD VEG PIT # PIT DEPTH OIL CHARACTER OIL INTVAL: FROM TO CLEAN BELOW: PIT ZONE: SU UI MI LI SUBSURF SEDIMENT: BRK BLD COB PEB GRN SAN MUD VEG PIT # PIT DEPTH OIL CHARACTER OIL INTVAL: FROM TO CLEAN BELOW: PIT ZONE: SU UI MI LI SUBSURF SEDIMENT: BRK BLD COB PEB GRN SAN MUD VEG PIT # PIT DEPTH OIL CHARACTER OIL INTVAL: FROM TO CLEAN BELOW: PIT ZONE: SU UI MI LI SUBSURF SEDIMENT: BRK BLD COB PEB GRN SAN MUD VEG PIT # PIT DEPTH OIL CHARACTER OIL INTVAL: FROM TO CLEAN BELOW: PIT ZONE: SU UI MI LI SUBSURF SEDIMENT: BRK BLD COB PEB GRN SAN MUD VEG PIT # PIT DEPTH OIL CHARACTER OIL INTVAL: FROM TO CLEAN BELOW: PIT ZONE: SU UI MI LI SUBSURF SEDIMENT: BRK BLD COB PEB GRN SAN MUD VEG

A.S.A.P.

EV 12-a
site 1

August 7, 1990

ADEC recommends the following treatment:

- 1) Manually or mechanically relocate clean surface cobble and small boulders to expose all AP and OP/OR surface oiling.
- 2) Manually remove AP and OP/OR subsurface sediments.
- 3) Manual till all areas of treatment thoroughly.
- 4) Bioremediate using Inipol and Customblen.

ACE 7237739

ASAP FOLLOWUP RECOMMENDATIONS

Project: AS/EV-12 Subd.: A (Avalanche) Site: _____ Date: 8-17-90 1990

Conditions Observed: On west side of stream is an area of AP
SOR left after Summer '90 treatment. On east side of stream
is an area approx 15m x 3m of AP and OR/OR from 15m-20m
surface penetration.

Followup Recommendations: ASAP/Survey crew recommends the
manual removal of surface AP and sub-surface OR and
heavy oil to a depth of 15cm-30cm. Area on west
side of stream should be thoroughly tilled and
bioremediated as should area requiring manual
removal.

Completed by Pickup Crew: ☐ YES ☒ NO

Priority for Addressing in 1990: ☒ High ☐ Mod. ☐ Low

ADEC

BOB MCCREAN
 (name)

Robert B. McClean
 (signature)

Comments: For area east of stream the mechanical removal
of small boulders covering oil and OR and OR sediments
would greatly facilitate treatment.

Exxon

JOHN DEAN
 (name)

John Dean
 (signature)

Comments: PREVIOUS WORK IN AREA RATHER INTENSIVE. RE-DIGGING SOURCE SEEMS
TO BE UNDER LARGEST CAUSEWAY/SIG. BURNING. RE-DIGGING SHOULD BE DONE
TO ROLL ROCKS ADEQUATELY TO REMOVE THIS SOURCE AND BIO REMEDIATE

USCG

DON OREVIS
 (name)

Don Orevis
 (signature)

Comments: MANUAL REMOVAL OF OIL FROM AREA TO BE DONE BY ASAP TEAM. WORK CASE
WATER EXPOSED IN PIT DUG BY ASAP TEAM SHOWED ONLY LIGHT FUM.
REAPPLICATION OF "BIO" FOLLOWING MANUAL WORK REQUIRED.

Land Rep.

Steve WARD
 (name)

Steve Ward
 (signature)

Comments: Agree with local community and recommendations - follow

ACE 7237740

TOTAL P.02

SEGMENT: V-15

SUBDIVISION A

DATE 4, 20 80

Scale



10 m

CHECKLIST

- ☐ H Area
- ☐ Approx. Scale
- ☐ Daylight Only
- ☐ CD Box
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ For FORSLAND 1
- ☐ Silt
- ☐ Folia Location(s)
- ☐ Foliage
- ☐ FA Location(s)
- ☐ Photo Location(s)

LEGEND

▲
P2 - Substrate CD

▲
P2 - Substrate CD

CT/C

CT/B

ST/C

ST/B

ST/B

ST/B

ST/B

ST/B

ST/B

ST/B

EVANS ISLAND

8/7/90

CT 30

MS 30

US 989

NO 36

ST 30

2PWS

8/7/90

MS/P 10x2m
CT/P-I
ST/P-I

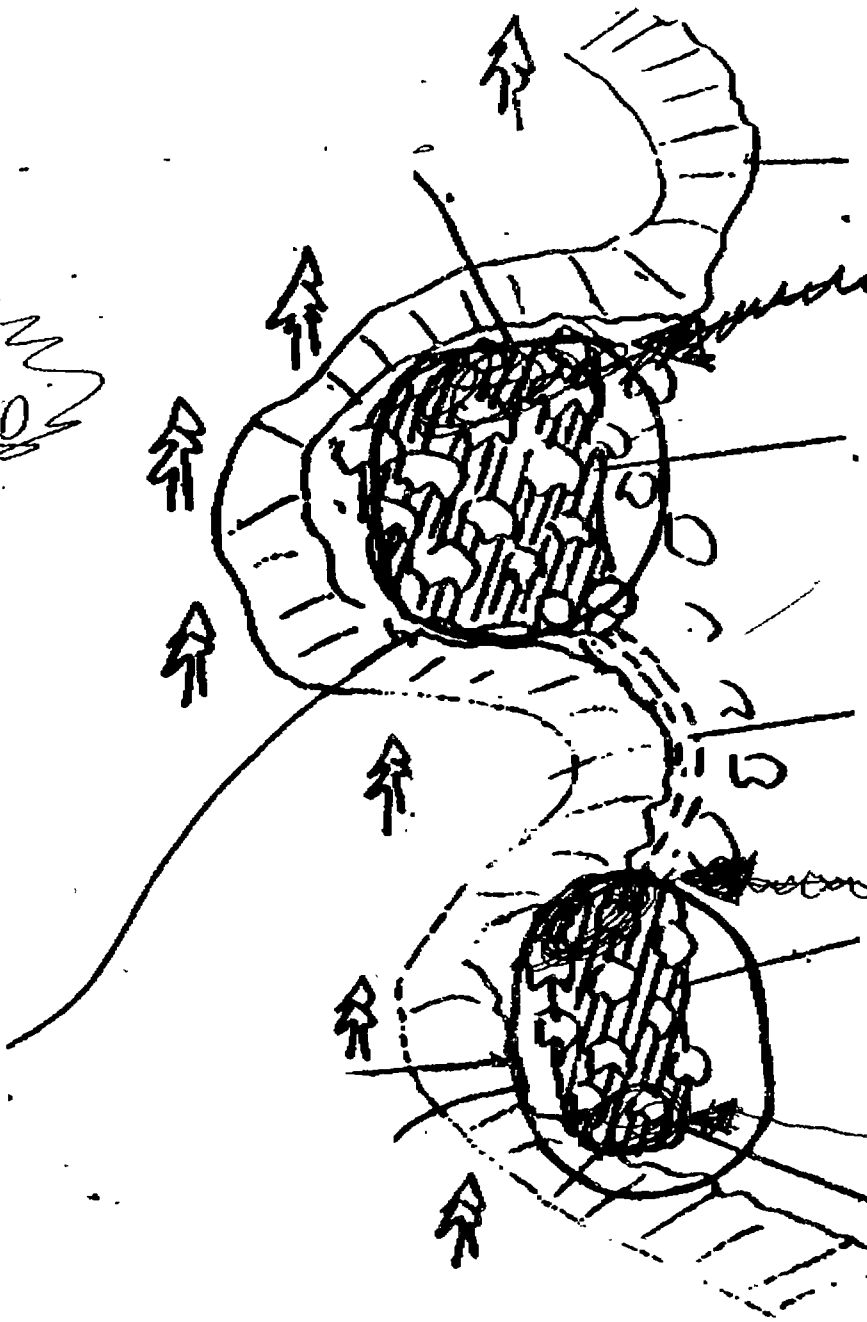
PWS

8/7/90

MS/P 10x20m
ST/B
CT/B

8/7/90

MS/P 10x6m
ST/B
CT/B



ACE 7237741 -15

for map 1

CD Character Length: AP PO CV CT ST MS PT TS PL NO

7/1/90

ADEC DEMOBILIZATION REPORT
FOR INIPOL AND CUSTOMBLEN TREATMENT

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

Attn: John Bauer
FAX 265-4666

From: Mike Ebel (please print)

RE: SEGMENT NUMBER EU-12 SUBSEGMENT NUMBER A; site #1

ADEC REP Mike Ebel USCG REP Chris Van Pelt

EXXON REP Chris Katsimpalis BOAT NAME/SQUAD NUMBER MU/Arctic Salvor
Squad #4

Site #	Length (along shore m)	Area m ²	Inipol (gallons)	Customblen (lbs.)
--------	---------------------------	------------------------	---------------------	----------------------

* I	50 m L x 17 m W	850 m ²	0	175 #
-----	-----------------	--------------------	---	-------

* Note: area worked overlapped former sites in places of the UTZ (former termite) and also to the eastern side of beach below the bedrock (near fractured boulders)

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

yes, but recommend SCAT

Team assigned to STZ survey to examine storm berm to determine if relocation is necessary. Limited time here for me did not allow this.

Describe the amount of oil remaining (type, size of area and location). This mostly pebble/cobble beach had been used as a buffer zone for

treatment distance away from the Anadromous stream (uncatalogued). later, the stream itself was bioremediated with customblen. No one went back to treat the majority of the gravel beach east of the stream. It appeared that in a few spots along the UTZ termite had been removed and customblen applied to these patches. The oiling that remained was found from the STZ through the MTZ (most noteworthy in the UTZ). A few patches of OR

Additional Comments (keep objective)

seeds were found on the surface and crews were to take @ 5 gal. buckets and remove just the OP. On the eastern end of beach near the bedrock a small area (that had formerly been treated) ~ 3 m L x .75 m W had a veneer of OP and one patch of mousse under rocks ~ 30 cm². This along with other patches were tilled and removed where appropriate. Most of the area had near-surface OR-OF seeds throughout the UTZ-MTZ from 1-7 cm deep in a 1C disk. Overall all this widespread

Signature Michael J. Ebel

Date and time of demobilization from segment EU-12-A 1320 hrs

Shoremon/Demob.bio 55/30/90

(Refer to OG bio sketches)

oiling was not heavy, but since it went all across the ~ 90 m long beach this was significant. Our crew worked about 1/2 of this length, to around 17 m W. We took Tom Crow's advice on where to stop based on work done to stream area to the

ACE 7237742
JLC

EV-12A Status Report 7/1/90

On the morning of July 1, 1990 members of Squad 4 Bio Team, accompanied by monitors from ADFG, USCG, ADEC, and CVC land manager began additional treatment on segment EV-12A after surveying the segment the previous evening. Although the segment had been demobilized it was determined that additional raking and Customblen application would be necessary. After defining the borders of the work area, we then proceeded with the prescribed work to the satisfaction of all parties.

The area treated could possibly have been left due to its proximity to the anadromous stream within the segment. Upon advisement of Mr. Tom Crow of ADFG, we were able to make an onsite decision to work in this area. We also re-treated the area already treated with Inipol on the eastern end of the segment after re-tilling the area. This was done to enhance the cleanup previously completed as this area is frequently used by members of the CVC.

This segment was then re-demobilized with the consensus of all parties involved.

ADFG: Tom Crow
ADEC: Mike Ebel *ME*
USCG: Chris Van Pelt *crp*
CVC : Mike Eleshansky
OG : Doug Reimer *DR*
Exxon: Chris Katsimpalis *cm*

ADEC DEMOBILIZATION REPORT
FOR PHYSICAL/MECHANICAL TREATMENT AND CUSTOMER

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

RE: SEGMENT NUMBER EV-12 SUBSEGMENT NUMBER A

DEC REP Wesley Ghormley USCG REP John Aguilon

EXXON REP Larry Olson BOAT NAME/SQUAD NUMBER Adele Cundies / Squad 5

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

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

- Eastern Portion of stream has an area consisting of pieces of tar mat that somehow got bioremediated. Bio shows no improvement. I believe it will have to be manually removed in the future. Due to lack of bio training my crew would not manually remove bioed area. Inipol smell was very strong.

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

Eastern Portion of Anad segment

30 x 6 m area consisting of pieces of tar mat, heavily saturated sediment.

Additional Comments (keep objective)

- Bioed area should never have been bioremediated. Bio Monitors should do a better job to see that this type of situation does not happen.

signature

Wesley Ghormley

Date and time of demobilization from segment 6/23/90 - 1035 Hrs.
Shoremon\55 5-12-90

STREAM TREATMENT REPORT
Alaska Department of Fish and Game
Tom Crowe

June 22, 1990

ASC # None

Segment EV-012

Observations The intertidal zone surrounding the stream channel consists mostly of small-grained material. The site has moderate exposure to wind and waves. On the left side of the channel, in the upper-intertidal zone, tar mats are scattered within a 20 m x 2 m area and appear to be part of a buried oil lens. Right side of the channel a 25 m x 1 m lens (5 - 10 cm thick) of mousse is buried beneath 5 - 15 cm of clean sand.

0930

I arrived at the stream site on the TINGLET PRINCESS. The crew was working on removing a large oil lens adjacent to the stream. This lens of oil was covered by up to one ft. clean gravel and the crew had to excavate to remove it. Larry Olson (EXXON) was very cooperative in removing it although it ended up being a continuous band that ran 20 yards from the stream channel. After the OP gravel were removed customblen was applied to the excavated area and one inch of clean gravel raked over the top.

The work that was completed was above and beyond the recommendations of the Tag Anadromous stream work order. Work was completed to the satisfaction of the DEC representative (Wes Gormly) and ADF&G monitor Tom Crowe.

13 supersacks of oiled sediment were removed.

ACE 7237745

ADEC DEMOBILIZATION REPORT FOR INIPOL AND CUSTOMBLEN TREATMENT

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

Attn: John Bauer
FAX 265-4666

From: Chris Strand (please print)

RE: SEGMENT NUMBER EV-12 SUBSEGMENT NUMBER A

ADEC REP Chris Strand

USCG REP Chris Van Pelt

EXXON REP Al Snook

BOAT NAME/SQUAD NUMBER Arctic Venture, Squad #4

Site #	Length (along shore m)	Area m ²	Inipol ☒ ^{sec} com (gallons)	Customblen ☒ ^{sec} com (lbs.)
①	~5	10	2.5	12
②	~12	36	5.75	2.75

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

Both sites were cleared for bioremediation, and above approximate amounts were applied, as stated on work order.

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

depth (~3cm) → The two above described sites were cobble/pebble/gravel matrix with film and residue consistencies. Two additional sites were assessed with Fish & Game personnel present, due to the reclassification of the on segment stream as anadromous. These sites are both mainly pebble/gravel/sand matrix with film and residue consistencies to a depth of ~3cm, and were not biced due to their proximity within 100m of sand stream. Approximate total area of these is 30m².

Additional Comments (keep objective)

☒ → ☒ As per OQ estimations of proper application amounts. These numbers do not represent actual amount applied, but systems are presently being introduced to improve accuracy.

signature C. Strand 6/6/90

Date and time of demobilization from segment 2100, 6/6/90

Shoremon\Demob.bio 55/30/90

ADEC DEMOBILIZATION REPORT
FOR PHYSICAL/MECHANICAL TREATMENT AND CUSTOMER

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

Attn: John Bauer
FAX 265-4666, 265-4656

RE: SEGMENT NUMBER EV-12 SUBSEGMENT NUMBER A

DEC REP Chris Strand USCG REP Ken Trebue

EXXON REP Frank Box BOAT NAME/SQUAD NUMBER Arctic Salvor, squad # 4

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

Labeled tar mat and asphalt removed, as stated on work order, and no oiled debris was found.

Is there additional oil remaining which can be removed with further physical/mechanical treatment? If yes, what is the recommended treatment method. No.

With removal of the 3 stated patches of asphalt, all that remained was thin residual and film oil in substrate to a depth of less than 2cm. This should readily be weathered away on high energy shore.

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

Isolated discontinuous patches of asphalt and tar patties which were not located on TAG report were killed, and in some instances removed. The more prominent of these were in the bedrock crevices on the northeast point.

Additional Comments (keep objective)

Extensive log collection along stream outlet has approximately half a dozen which are stained with oil, located along base of pile. Also, sediments of this area (g/p/s) have light filming of oil, not stated on TAG report.

signature

C. Kim Strand

5/25 '90

Date and time of demobilization from segment 5/25 '90, 1045

Shoremon\55 5-12-90

ANADROMOUS FISH STREAM EVALUATION ADDENDUM

CONSTRAINTS FOR STREAM NO. UNCATALOGUED

SEGMENT EV-12 SUBDIVISION A

WORK WINDOW

Manual Pickup

OPEN

Bioremediation and Manual Raking
Less Than 100m From Stream

WORK PRIOR TO 7/10
(ADF&G MONITOR REQ.)

ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

1A,1B Salmon Stream

An ADF&G uncatalogued anadromous stream is in Subdivision A. This subdivision is closed to bioremediation less than 100m from stream 7/10 to 8/31. Before 7/10, bioremediation is permitted less than 100m from stream with on-site ADF&G monitor or ADEC alternate present. No constraint to bioremediation more than 100m from stream. No constraint to manual pickup.

1K Purse Seine Area

Closed to bioremediation and manual raking after 7/25. No constraint to manual pickup.

7II Subsistence: Deer Harvesting

Closed to bioremediation and manual raking after 8/15. No constraint to manual pickup.

OTHER ECOLOGICAL CONSIDERATIONS

No disturbance to stream bed or banks. No flushing of pollutants or sediments into stream drainage; do not allow Inpol to enter stream flow. On-site examination and consultation by ADF&G monitor is required prior to bioremediation in order to authorize a setback distance from the stream during chemical application; if ADF&G monitor's presence is impossible, authorization may be given by the ADEC monitor. Restrict boat and air traffic and beach disturbance to essential minimum after 7/20. Avoid any unnecessary disturbance or damage to uncollected biota and substrate.

SEE SUBDIVISION CONSTRAINT ADDENDUM EV-12A
FOR ADDITIONAL CONSTRAINT INFORMATION.

FOSC

[Signature]

Date

6/14/90

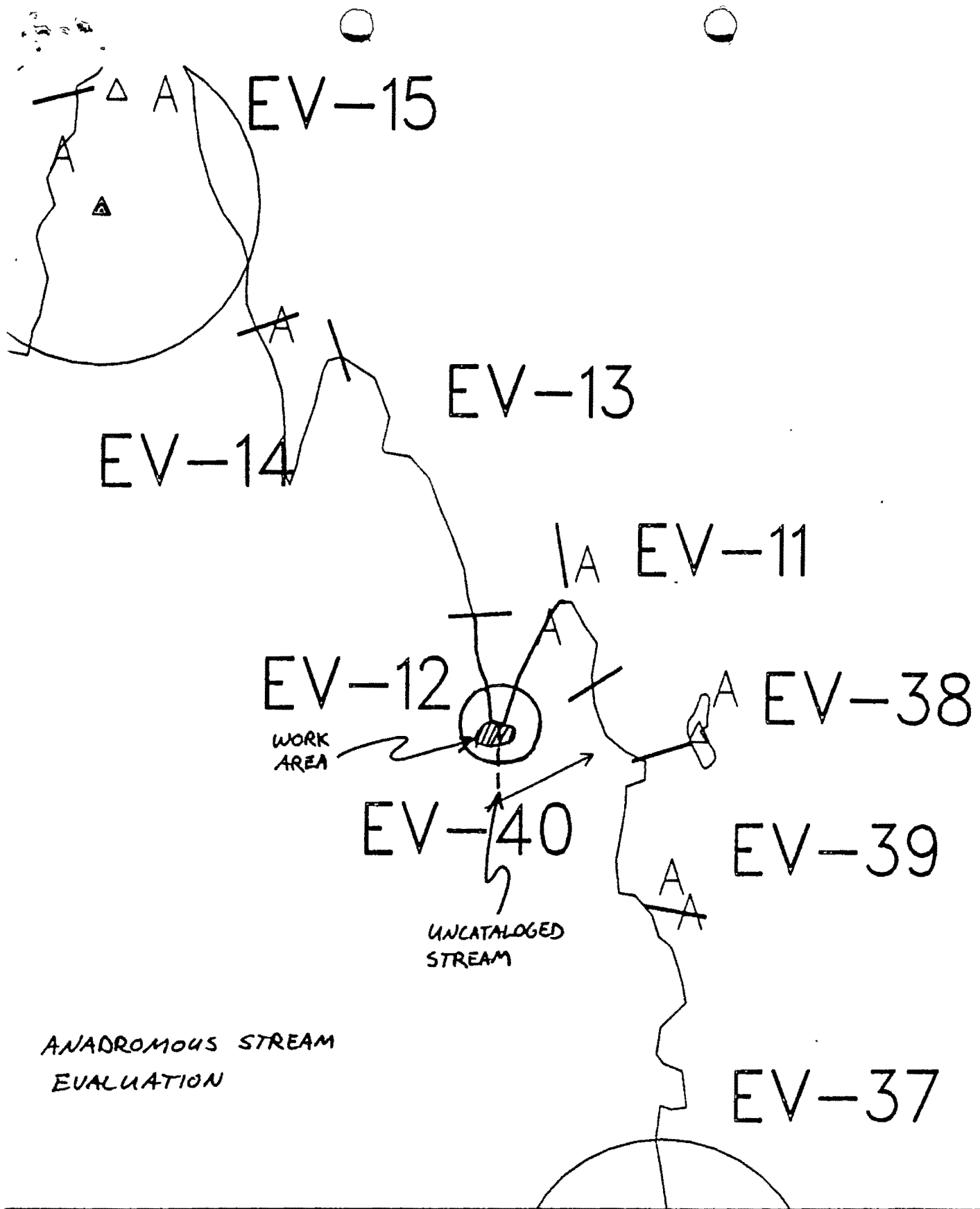
Prepared by

[Signature]

Date

6/14/90

ACE 7237748 +15/SG



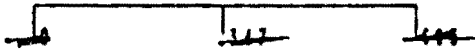
ANADROMOUS STREAM
EVALUATION



Exxon Company, USA
Map Key: PWS-EV-12
June 04, 1990



ECOLOGY MAP
SEGMENT EV-12
SUBDIVISION A (1 of 1)
METERS



- ★ Seabird Colony
- ▲ Active Eagle Nest
- △ Inactive Eagle Nest

1 inch = 1130 feet

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/ EV-12 STREAM NO: UNCATALOGUED DATE 4/22/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

- 1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
 - 1B Salmon stream mouth - spawning (7/10 to 8/31)
 - 7II Subsistence area: Deer harvesting (8/15 to 2/28)
- See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: [Signature] DATE: 5/8/90

Subsurface Oil Observed: Yes X No Maximum Depth 10 cm

RECOMMENDATIONS:

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

COMMENTS: Recommended treatment includes 1) manual pickup of tar patties and debris, 2) bioremediation of areas of surface and subsurface oil shown on attached sketch map. Work should be conducted between 5/15 and 7/10 based on anadromous stream constraints.

TAG COMMENTS: IN AREA INDICATED ON THE SKETCH: MANUAL PICKING SURFACE MATERIAL TO EXPOSE SUBSURFACE MOUSSE, MANUALLY REMOVE MOUSSE IN THIS BERM, FOLLOWUP WITH BIOREMEDIATION.

TAG APPROVAL DATE: 5/7/90

ADEC ART WETZEL

EXXON ANDY TEAL

NOAA GARY PATRICK

USCG G.A. REITER

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

NOTIFY CWR 24 HRS PRIOR TO WORK

ACE 7237750+15

Processed
5-7-90
MK

RECEIVED
MAY 03 1990

DEPT. OF
ENVIRONMENTAL CONSERVATION

ANADROMOUS FISH STREAM ASSESSMENT

REGION: PRINCE WILLIAM SOUND

SEGMENT: EV-12

STREAM NO: UNCATALOGUED

NO CONCERN -
Manual removal
of oil lens

TAG: Remove mousse (lens) from oil
beam & bio any residual film

ACE 7237751

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/ EV-12 STREAM NO: UNCATALOGUED DATE 4/22/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

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

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

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

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: _____ DATE: _____

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 tar patties and debris, 2) bioremediation of areas of surface and subsurface oil shown on attached sketch map. Work should be conducted between 5/15 and 7/10 based on anadromous stream constraints.

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____

EXXON _____

NOAA _____

USCG _____

FOSC: _____ DATE: _____

ACE 7237752

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

Salmon stream mouth - spawning (3/10 to 8/31)

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

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

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

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

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

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

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

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

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

1H Remote release site

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

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

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

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

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

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

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

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

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

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

Contact ADF&G for confirmation - dates and locations may vary. Restrict boat traffic to essential minimum. Avoid damage to unloiled 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 267-2208

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

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

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

AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377

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

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

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

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

6Y Special use destination

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

7HH Finfish harvesting

Deer harvesting (8/15 to 2/28)

7JJ Invertebrate harvesting

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

AGENCY CONTACT PERSON: ADF&G Jim Fall 267-2358

ACE 7237753

FIELD SHORELINE COMMENT SHEET

SEGMENT ST/ EV 012 SUBDIVISION: NO ASCA DATE 4/22/98

USCG

NAME

AND J. MC MAHON

SIGNATURE

[Signature]☐ NO TREATMENT RECOMMENDED☒ TREATMENT SUGGESTED

COMMENTS

1. MANUAL CLEAN-UP; REMOVAL TAR BALLS
+ ASPHALT.
2. BIOREMEDIATION OF LEFT BERM (LOOKING
ON SHORE)

~~ADFC~~
~~ADEC~~

Michael Wiedmer

NAME

NO Team member

SIGNATURE

[Signature]☐ NO TREATMENT RECOMMENDED☒ TREATMENT SUGGESTED

COMMENTS

BIOREMEDIATION NOT SUGGESTED,

LAND MANAGER

NAME

NO Team member

SIGNATURE

☐ NO TREATMENT RECOMMENDED☐ TREATMENT SUGGESTED

COMMENTS

OG William Reid USCG McMAHON SEGMENT ST/ EVO12
BIO RICHARD FAYCETT LAND REP Tom C. Rowe ADPC 5-5 STRAIN No NUMBER 1 OF
EXXON Gus Garcia ADPC Mike Wiedner Time 16:00/13:15
TEAM NO. 15 TIDE LEVEL 2 ft DATE 22 / APR / 90
EST. SUBDIVISION LENGTH: 80 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
UPLANDS DESCRIPTION: ☐ Grass ☐ Forest ☐ Rock
SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
SURFACE SEDIMENTS: R 0 % S 0 % C 2.5 % P 75 % G 0 % M 0 % V 0 %
SLOPE: Long 90 % Hang 10 % Vert 0 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
OIL CATEGORY LENGTH: W 0 m M 0 m N 50 m VL 0 m NO 30

SURFACE OIL

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

PAVEMENT H F S 0 sq. m by 0

PATTIES / TARBALLS 10 BAG

NEAR SHORE SHEEN? NO BR RW SL TI

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

Did you collect DEBRIS ☐ YES ☒ NO

TYPE

BAGS

Photographs:

Roll No.

Frames

SUBSURFACE OIL * OILED INTERVAL < 5cm IN PIT 5 DOES NOT CONSTITUTE SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL	BELOW		OIL / FILM COLOR					PIT ZONE				A N A	SHEEN (Y/N)	T	SURFACE SUBSURFA SEDIMENT
		OP	OR	EL	OF	NO		NO	NO	1	2	3	4	5	SW	W	W	U				
1	35			X			5-10	X				X			X					N		P/G/C
2	30					X	.								X					N		P/G/C
3	20			X			5-10	X				X			X					N		P/G/C
4	35					X	.								X					N		P/G/C
* 5	25	X					0-10	X				X			X	X				Y		P/G/C
6	40					X	.								X					N		P/G

COMMENTS

REVIEWED JW DATE 4-26-90

ACE 7237755

00 WILLIAM REID

SKETCH MAP

29/55 SEGMENT ST/ EVQ12

STREAM NO NUMBER

DATE 22 APR 80

CHECKLIST

- ☐ N Area
- ☐ Approx. Scale
- ☐ Background
- ☐ Oil Out
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HULLAGE
- ☐ SCL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ PI Location(s)
- ☐ Photo Location(s)

LEGEND

1 Δ
PI - No Substrate Oil

2 Δ
PI - Substrate Oil

CT/C
Continuous Distribution

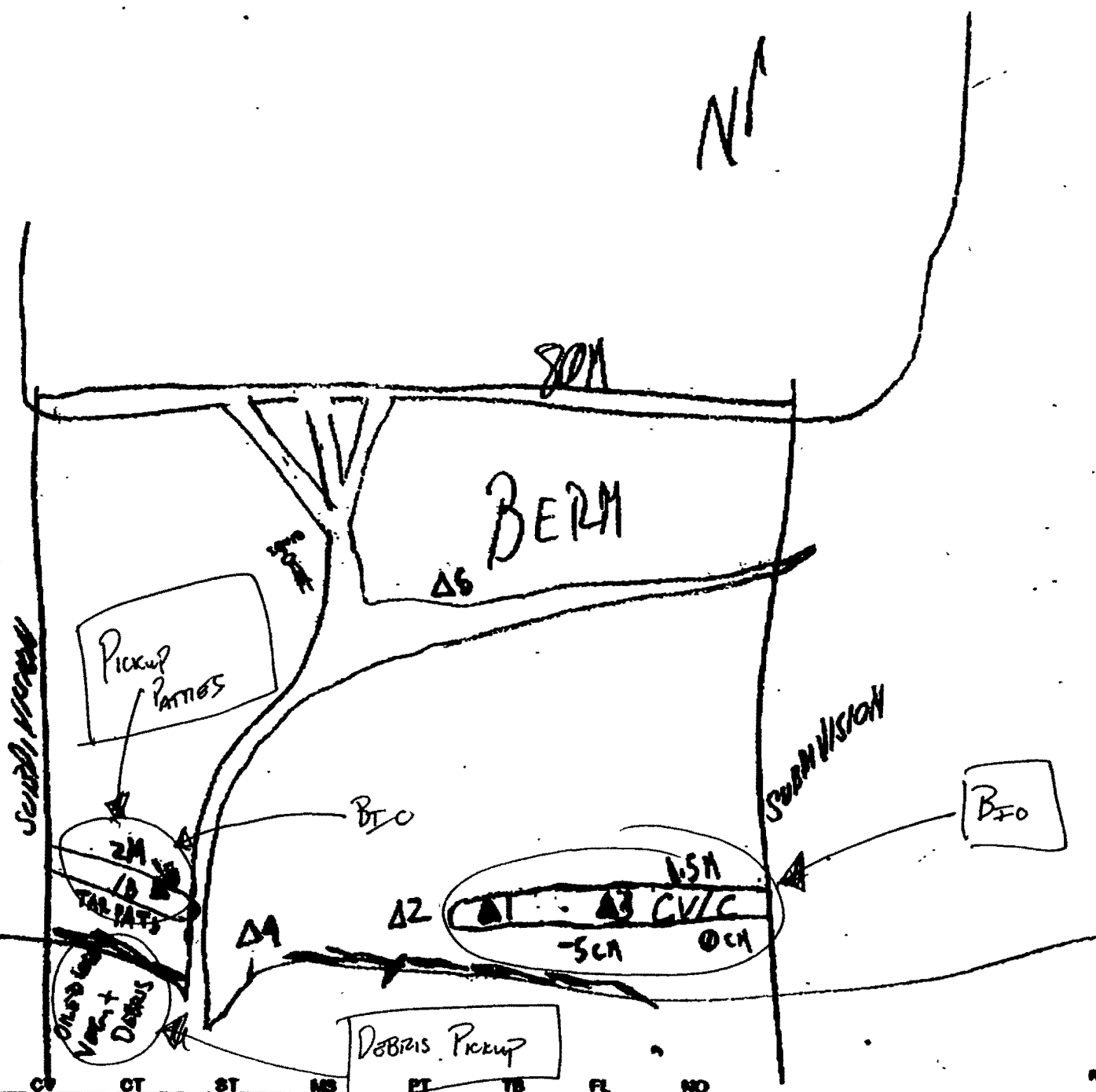
CT/B
Broken Distribution

CT/P
Patchy Distribution

CT/S
Spotted Distribution

lll
Clad Vegetation

1 →
Photo location, direction,
and number



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

P.19 SCAT TEAM

TO

EXXON CMD CORDOVA

FROM 68:59 0001-1990

FACE 7237756

17/55

ADPAC MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: SS 35 CS TS AVS SCA MSB PTA2 REGION: P15 XP,C1 K,JPMETHODS: Aerial Ground Boat3 DATE: 4/22/9015 HIGH TIDE TIMES: 1205 1 —21 TEAM RECORDER: M. WISSEMER4 START TIME: 164516 HIGH TIDE HTS: 10.0' 1 —22 OBSERVERS: T. CROWE5 STOP TIME: 171017 LOW TIDE TIMES: 0603 1 181423 AGENCY: ADPAC6 SEGMENT #: EV-01218 LOW TIDE HTS: 1.0' 1 10.7'24 PHOTOS TAKEN: Y (N)7 STATION #: EV-012A19 TIDE HT AT SURVEY: 1:50'

Roll #: _____ Frame: _____

8 K-UNIT: _____

20 USCG QUAD: SEWARD A325 VIDEO TAKEN: Y (N) TAPES: _____

9 STAT AREA: _____

26 SAMPLE TAKEN? Y (N) Number

Starts: _____ Ends: _____

10 LAT: _____

11 LONG: _____

28 OIL

12 SOURCE: Map Loran13 LOCATION: NORTHEAST END, LAGOON EVANS IS.

14 DESCRIPTION: _____

Sediment: _____

Biological: _____

Water: _____

EXTENT OF OIL

	SHORELINE				STREAM			
	L	V	H	S	L	V	H	S
27 SURFACE COVERAGE	100	75		1	75	3		41

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

30 OVERALL OIL IMPACT: N VL (L) N H31 OIL TYPE: Pooled Masses Tar Asphalt Sticky Stain32 OILED OVERLST Y (N)33 SHORELINE TYPE: Headland Low-lying Rocks Beach (Cove)Lagoon Marsh34 WAVE EXPOSURE: High Moderate (Low)35 SUBSTRATE TYPE: Bedrock Boulder Cobble 25Gravel 50 Sand 25 Mud/silt36 CATALOGED ANAD. FISH STREAM? Y (N)
NOMINATED, NOT CATALOGED37 CATALOG #: NONE

38 STREAM NAME: _____

39 OIL IN STREAM BED? Y (N)40 OIL ON STREAM BANKS? Y (N)41 OIL ON BEACH ADJACENT TO MOUTH? Y (N)
(within 50 meters)42 OIL WITHIN 1 MILE OF STREAM? Y (N)

Where: _____

43 ANADROMOUS FISH PRESENT? Y (N)FRY PERCEIVED

44 ANADROMOUS FISH OBSERVATION

Species Aerial Ground

COMMENTS: PREDOMINANTLY FINE GRAINED SUBSTRATE ON LOW
EXPOSURE BEACH. TAR MATS 20m x 2m N.W. OF STREAM.

BURIED HOUSE LENS (5-15cm BELOW SURFACE; 5-10cm THICK)
E OF STREAM (25m x 1m). TAR MATS IN SMALL GRAVEL

18/55

48 PHOTOLOG

PHOTO(S)

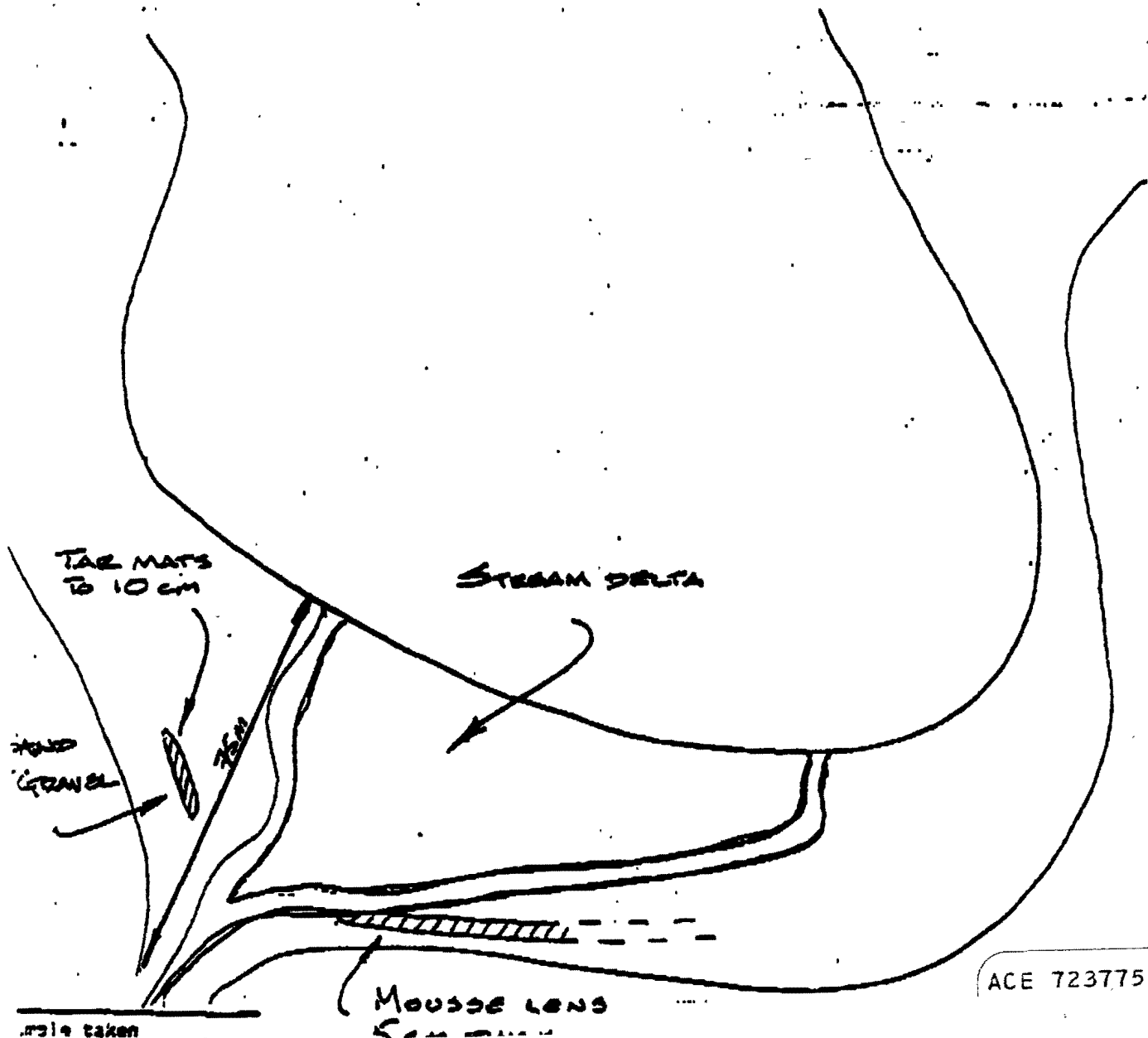
DESCRIPTION

RECOMMENDATIONS: MANUAL REMOVAL OF SURFACE
TAR MATS. MANUALLY REMOVE BUOYED MOUSSE LENS
(REMOVE ONLY OILED LENS, NOT CLEAN OVERBURDEN)

I agree with recommendations.

M. H. Fauriol

48 OIL DISTRIBUTION DIAGRAM



ACE 7237758

23/55

segment EV 012

4/22/90

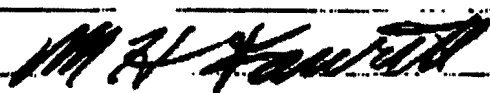
no stream number

Michael Fawcett

Ecological summary

This small stream enters via a biologically barren boulder/cobble/pebble/gravel beach in a small cove. More stable sediments and boulders on either end of cove have healthy community of Fucus, barnacles, mussels, etc. Two or three harbor seals were hauled out on rocky point at east end of cove when we arrived. One sea otter and a pair of red-breasted mergansers were also seen.

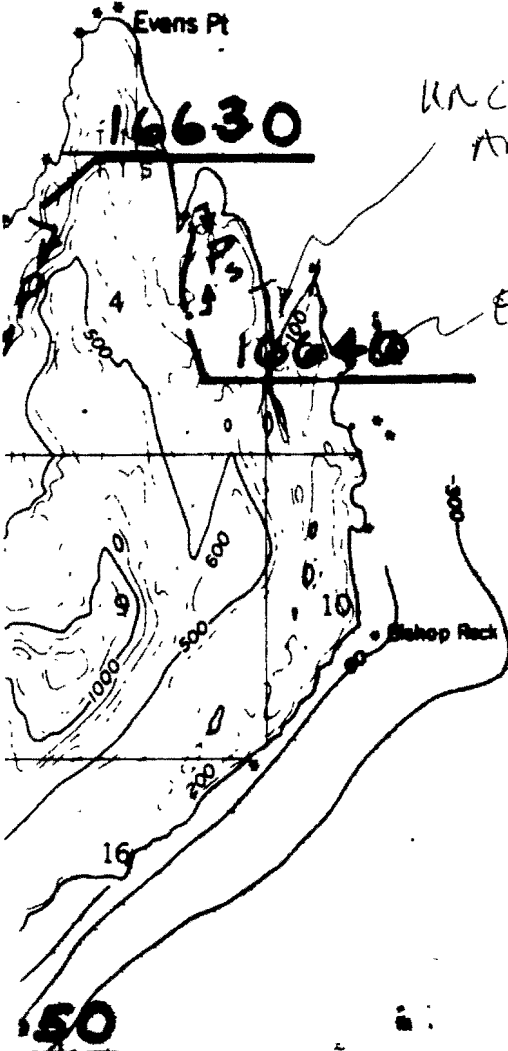
No ecological constraints re: cleanup procedures



ECCOLOGICAL
MAP

EV-012

P
A
S
S
A
G
E



EV-13

EV-

EV-12

SUBJECT SITE
WITHIN EV-12 A
(1 OF 2)

EV-40

XXXX Wide

//// Medium

---- Narrow

TTTT Very Light

0000 No Oil

EV-12

ADEC Segment Length: 667m

0 100 200 300
METERS



Map Key: PWS-180

Name: Reimer

Date: 4/7/90

Date Entered:

ACE 7237761-JS/SG

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/ EV-12 STREAM NO: UNCATALOGUED DATE 4/22/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

- 1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
 - 1B Salmon stream mouth - spawning (7/10 to 8/31)
 - 7II Subsistence area: Deer harvesting (8/15 to 2/28)
- See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: [Signature] DATE: 5/8/90

Subsurface Oil Observed: Yes X No Maximum Depth 10 cm

RECOMMENDATIONS:

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

COMMENTS: Recommended treatment includes 1) manual pickup of tar patties and debris, 2) bioremediation of areas of surface and subsurface oil shown on attached sketch map. Work should be conducted between 5/15 and 7/10 based on anadromous stream constraints.

TAG COMMENTS: IN AREA INDICATED ON THE SKETCH: MANUAL PICKING SURFACE MATERIAL TO EXPOSE SUBSURFACE MOUSSE, MANUALLY REMOVE MOUSSE IN THIS BEACH, FOLLOWUP WITH BIOREMEDIATION.

TAG APPROVAL DATE: 5/7/90

ADEC ART WELTON

EXXON ANDY TELL

NOAA GARY PETRUS

USCG G.A. REITER

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

NOTIFY CWC 24 HRS PRIOR TO WORK

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

4 START TIME: 1645 16 HIGH TIDE HTS: 10.0' 1 — 22 OBSERVERS: T. CROWE

5 STOP TIME: 1710 17 LOW TIDE TIMES: 0603 1 1814 23 AGENCY: ADFG

6 SEGMENT #: EV-012 18 LOW TIDE HTS: 1.0' 1 0.7' 24 PHOTOS TAKEN: Y N

7 STATION #: EV-012A 19 TIDE HT AT SURVEY: 1.50' Roll #: _____ Frame: _____

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

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

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

12 SOURCE: Map Loran 011 _____

13 LOCATION: NORTHEAST END, LATER EVANS IS. Sediment _____

14 DESCRIPTION: _____ Biological _____

Water _____

EXTENT OF OIL

	SHORELINE				STREAM			
	L	W	M ²	%	L	W	M ²	%
27 SURFACE COVERAGE	100	75		1	75	3		41
28 SURFACE THICKNESS	5mm	5mm	0mm	0	0	0	0	0
29 PENETRATION	5cm	5cm	10cm	0	0	0	0	0

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 25
Gravel 50 Sand 25 Mud/silt _____

36 CATALOGED ANAD. FISH SREAM? Y N
NOMINATED, NOT CATALOGED

37 CATALOG #: NONE

38 STREAM NAME: _____

39 OIL IN STREAM BED? Y N

40 OIL ON STREAM BANKS? Y N

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

42 OIL WITHIN 1 MILE OF STREAM? Y N

Where: _____

43 ANADROMOUS FISH PRESENT? Y N
FRY PRESUMED

44 ANADROMOUS FISH OBSERVATION
Species Aerial Ground

COMMENTS: PREDOMINANTLY FINE GRAINED SUB
EXPOSURE BEACH. TAR MATS 20m x 2m N.W.
BURIED MOUSSE LENS (5-15 CM BELOW SURF)
E OF STREAM (25m x 1m). TAR MAT
SAND. MOUSSE LENS IN SAND IN UPPER INTERTIDAL.

ACE 7237763 +15

ADF&G MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: ES SS OS TS AVS SCHA MMS PTA 2 REGION: PWS KP,CI K,AP
 METHOD: Aerial Ground Boat
 3 DATE: 4/22/90 15 HIGH TIDE TIMES: 1205 1 — 21 TEAM RECORDER: M. WIEDMER
 4 START TIME: 1645 16 HIGH TIDE HTS: 10.0' 1 — 22 OBSERVERS: T. CROWE
 5 STOP TIME: 1710 17 LOW TIDE TIMES: 0603 1 1814 23 AGENCY: ADF&G
 6 SECTENT #: EV-012 18 LOW TIDE HTS: 1.0' 1 0.7' 24 PHOTOS TAKEN: Y N
 7 STATION #: EV-012A 19 TIDE HT AT SURVEY: 1.50' Roll #: _____ Frame: _____
 8 K-UNIT: _____ Ebb Slack Flood Slack 25 VIDEO TAKEN: Y N TAPE#: _____
 9 STAT AREA: _____ 20 USCG QUAD: SEWARD A3 Start: _____ End: _____
 10 LAT: _____ 11 LONG: _____ 26 SAMPLES TAKEN? Y N Number _____
 12 SOURCE: Map Loran Oil _____
 13 LOCATION: NORTHEAST END, LATER EVANS IS. Sediment _____
 14 DESCRIPTION: _____ Biological _____
 Water _____

EXTENT OF OIL

	SHORELINE				STREAM			
	L	M	M ²	%	L	M	M ²	%
27 SURFACE COVERAGE	100	75		1	75	3		<1
28 SURFACE THICKNESS	5mm	5mm	0mm	0	0	0	0	0
29 PENETRATION	5cm	5cm	10cm	0	0	0	0	0
30 OVERALL OIL IMPACT:	N	VL	<u>L</u>	M	H			
31 OIL TYPE:	Pooled	<u>Mousse</u>	<u>Tar</u>	Asphalt	Sticky	Stain		
32 OILED DEBRIS?	Y	<u>N</u>						
33 SHORELINE TYPE:	Headland	Low-lying Rocks	Beach	<u>Cove</u>				
		Lagoon	Marsh					
34 WAVE EXPOSURE:	High	Moderate	<u>Low</u>					
35 SUBSTRATE TYPE:	Bedrock	Boulder	Cobble	<u>25</u>				
	Gravel	<u>50</u>	Sand	<u>25</u>	Mud/silt			

36 CATALOGED ANAD. FISH SREAM? Y N
 NOMINATED, NOT CATALOGED
 37 CATALOG #: NONE
 38 STREAM NAME: _____
 39 OIL IN STREAM BED? Y N
 40 OIL ON STREAM BANKS? Y N
 41 OIL ON BEACH ADJACENT TO MOUTH (within 50 meters) Y N
 42 OIL WITHIN 1 MILE OF STREAM? Y N
 Where: _____
 43 ANADROMOUS FISH PRESENT? Y N
FRY PRESUMED
 44 ANADROMOUS FISH OBSERVATION
 Species Aerial Ground

COMMENTS: PREDOMINANTLY FINE GRAINED SUBSTRATE ON LOW EXPOSURE BEACH. TAR MATS 20m x 2m N.W. OF STREAM. BURIED MOUSSE LENS (5-15 CM BELOW SURFACE; 5-10 CM THICK) E OF STREAM (25m x 1m). TAR MATS IN SMALL GRAVEL SAND. MOUSSE LENS IN SAND IN UPPER INTERTIDAL.

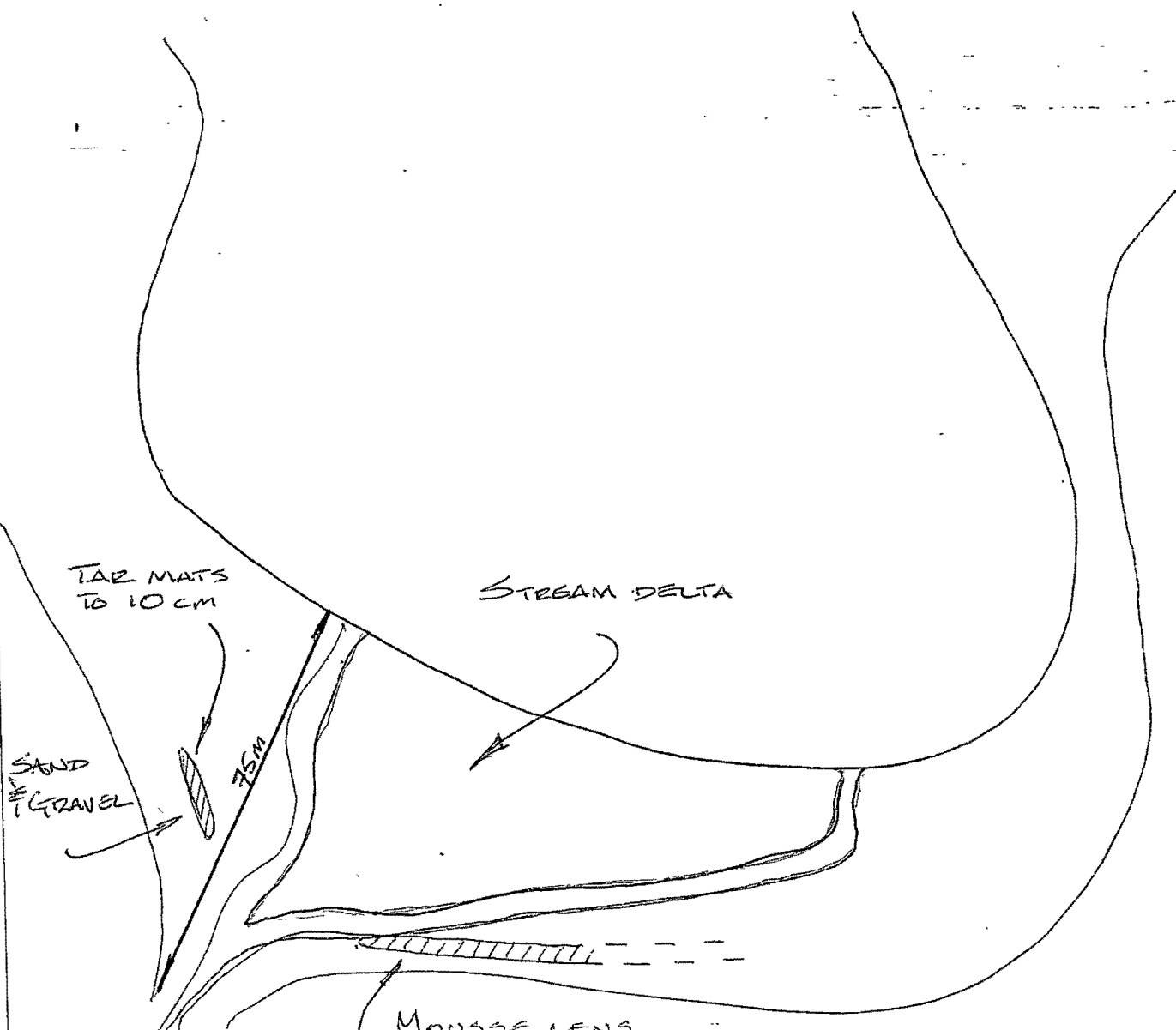
45 PHOTOLOG

FRAME(S)

DESCRIPTION

RECOMMENDATIONS: MANUAL REMOVAL OF SURFACE
TAR MATS. MANUALLY REMOVE BURIED MOUSSE LENS
(REMOVE ONLY OILED LENS, NOT CLEAN OVERBURDEN)

46 OIL DISTRIBUTION DIAGRAM



Sample taken
Photo frame # and
shot direction.

MOUSSE LENS
5 CM THICK
5 CM BELOW SAND
CLEAN SAND SUBSTRATE

ACE 7237764-18

OPERATIONS FIELD NOTES

See Back for Instructions

14/55

SEGMENT ID ANAD EV-12-A
 STREAM ID # NO NUMBER
 ANNOTATED MAP INCLUDED YIN

DATE 4-22-90
 NAME GARCIA
 TEAM # 15

SURFACE OIL	Quantities in Meters			Treatment Recommendation						
				None	Bioremediation		Tilling		Spot Hot Water	
	Length	Width	Area		Y/N	% Treat	Y/N	% Treat	Y/N	% Treat
Wide Band	NONE									
Medium Band										
Narrow Band										
Very Light										
TOTAL MANDAYS						0		0		0

SUBSURFACE OIL YES, 5-10 CM IN DEPTH. REFER TO ATTACHED MAP.

Other (Describe)?	

TARMATS	Quantities in Meters			Treatment Rec			# of Bags	Mandays Required	
	Length	Width	Thick(cm)	None	Breakup	Remove		Breakup	Remove
Area #1	20	2	10			✓	50		4
Area #2									
Area #3									
Area #4									
Sporadic Mats									

MANUAL PICKUP	Type of Debris			In Meters		# of Bags	Pickup Y/N	Manday Estimate
	Mousse Tarballs	Oiled Veget	Cleanup Debris	Length	Width			
Pocket #1		✓		10	1	10		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? 1 Is it mingled with the Oiled Debris YIN
1 POM POM & 1 PLASTIC BAG. REFER TO MAP (POCKET 1).

GENERAL Snow covering 0 % 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 2

COMMENTS:

THE SUBSURFACE OIL AS NOTED ON THE ATTACHED MAP SHOULD BE MANUALLY REMOVED (SHOULD BE EASY). A TOTAL OF 40 BAGS SHOULD BE REQUIRED FOR THE SUBSURFACE OIL. NO OTHER TREATMENT RECOMMENDED BESIDES THE MANUAL PICKUP. TOTAL MANDAYS REQUIRED FOR THIS STREAM SHOULD BE 8.

ACE 7237765+1S

ACE 7237766

FIELD SHORELINE COMMENT SHEET

16/55

SEGMENT ST EV 012 SUBDIVISION: NO ASC# DATE 4/22/90

USCG

NAME AWO J. MC MAHON SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED

☒ TREATMENT SUGGESTED

COMMENTS

1. MANUAL CLEAN-UP; REMOVAL TAR BALLS
+ ASPHALT.
2. BIOREMEDIATION OF LEFT BERM (LOOKING
ON SHORE)

~~ADFC~~ ADEC Michael WIEDMER

NAME NO Team member SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED

☒ TREATMENT SUGGESTED

COMMENTS

BIOREMEDIATION NOT SUGGESTED,

LAND MANAGER

NAME NO Team member SIGNATURE _____

☐ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

COMMENTS

17/55

ACF&G MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: ES SS DS TS AVS SCHA MMS PTA 2 REGION: PWS KP,CI K,AP
 METHOD: Aerial Ground Boat
 3 DATE: 4/22/90 15 HIGH TIDE TIMES: 1205 1 — 21 TEAM RECORDER: M. WIEDMER
 4 START TIME: 1645 16 HIGH TIDE HTS: 10.0' 1 — 22 OBSERVERS: T. CROWE
 5 STOP TIME: 1710 17 LOW TIDE TIMES: 0603 1 1814 23 AGENCY: ADFG
 6 SEGMENT #: EV-012 18 LOW TIDE HTS: 1.0' 1 0.7' 24 PHOTOS TAKEN: Y N
 7 STATION #: EV-012A 19 TIDE HT AT SURVEY: 1.50' Roll #: _____ Frame: _____
 8 K-UNIT: _____ Ebb Slack Flood Slack 25 VIDEO TAKEN: Y N TAPE #: _____
 9 STAT AREA: _____ 20 USCG QUAD: SEWARD A3 Start: _____ End: _____
 10 LAT: _____ 11 LONG: _____ 26 SAMPLES TAKEN? Y N Number
 12 SOURCE: Map Loran 011 _____
 13 LOCATION: NORTHEAST END, LAGOON EVANS IS. Sediment _____
 14 DESCRIPTION: _____ Biological _____
 Water _____

EXTENT OF OIL

	SHORELINE				STREAM			
	L	M	M ²	%	L	M	M ²	%
27 SURFACE COVERAGE	100	75		1	75	3		<1
28 SURFACE THICKNESS	5mm	5mm	0mm	0	0	0	0	0
29 PENETRATION	5cm	5cm	10cm	0	0	0	0	0

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 25
 Gravel 50 Sand 25 Mud/silt _____

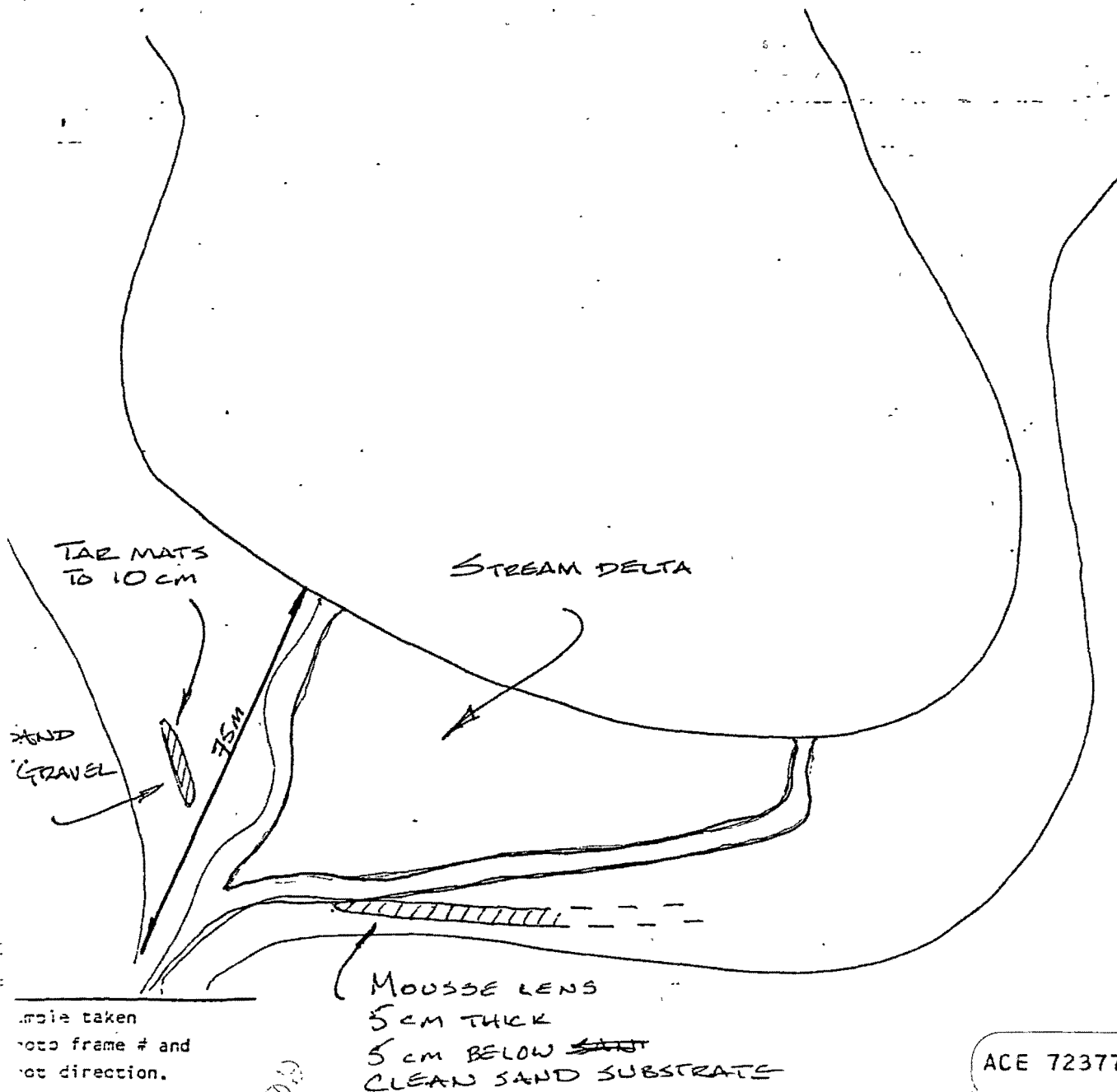
36 CATALOGED ANAD. FISH SREAN? Y N
 NOMINATED, NOT CATALOGED
 37 CATALOG #: NONE
 38 STREAM NAME: _____
 39 OIL IN STREAM BED? Y N
 40 OIL ON STREAM BANKS? Y N
 41 OIL ON BEACH ADJACENT TO MOUTH? Y N
 (within 50 meters)
 42 OIL WITHIN 1 MILE OF STREAM? Y N
 Where: _____
 43 ANADROMOUS FISH PRESENT? Y N
FRY PRESUMED
 44 ANADROMOUS FISH OBSERVATION
 Species Aerial Ground

COMMENTS: PREDOMINANTLY FINE GRAINED SUBSTRATE ON LOW EXPOSURE BEACH. TAR MATS 20m x 2m N.W. OF STREAM. BURIED MOUSSE LENS (5-15 CM BELOW SURFACE; 5-10 CM THICK) E OF STREAM (25m x 1m). TAR MATS IN SMALL GRAVEL SAND. MOUSSE LENS IN SAND IN UPPER INTERTIDAL.

18/55

FRAME(S)	DESCRIPTION
	RECOMMENDATIONS: MANUAL REMOVAL OF SURFACE TAR MATS. MANUALLY REMOVE BURIED MOUSSE LENS (REMOVE ONLY OILED LENS, NOT CLEAN OVERBURDEN) I agree with recommendations. M. H. Fawcett

46 OIL DISTRIBUTION DIAGRAM



ACE 7237769

OG WILLIAM RE USCG McMAHON SEGMENT ST/ EVO12
 BIO MICHAEL FAWCETT LAND REP TOM CROWE ADFG 5 STREAM NO/NUMBER (OF)
 EXXON GUS GARCIA ADFG MIKE WIEDMER TIME 16:45 to 17:15
 TEAM NO. 15 TIDE LEVEL 2 FT DATE 22 / APR / 90
 EST. SUBDIVISION LENGTH: 80 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R 0 % B 0 % C 25 % P 75 % G 0 % S 0 % M 0 % V
 SLOPE: Lang 90 % Hang 10 % Vert 0 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 50 m VL 0 m NO 30 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	C	S	P	B	BR	FR	FW	GY	SL	DR	TL	LR	SU	U	M	L
ASPHALT PAVEMENT																
POOLED																
COVER	X						X						X			
COAT																
STAIN																
MOUSSE																
PATTIES		X								X			X	X		
TARBALLS																
FILM																
NO OIL																

PAVEMENT H F S 0 sq. m by 0 c

PATTIES / TARBALLS _____ BAGS

NEAR SHORE SHEEN? NO BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs	X		
Vegetation	X		
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-CL)	BELOW		OIL / FILM COLOR								PIT ZONE				A N A	SHEEN (Y/N)	T	SURFACE-SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UO	UC	BR	FR	FW	GY	SL	DR	TL	LR	SU	U	M	L				
1	35			X			5-10	X							X			X					N		P/G/C
2	30					X	-											X					N		P/G/C
3	20			X			5-10	X							X			X					N		P/G/C
4	35					X	-											X					N		P/G/C
5	25		X				0-10	X							X				X				Y		P/C/G
6	40					X	-												X				N		P/G

COMMENTS

REVIEWED _____ DATE _____

ACE 7237770

OG WILLIAM REID

SKETCH MAP

SEGMENT ST/ EV012

STREAM - NO NUMBER

DATE 22 / APR 90

CHECKLIST

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

LEGEND

1 Δ

Plt - No Subsurface Off

2 ▲

Plt - Subsurface Off

CT/C

Continuous Distribution

CT/B

Broken Distribution

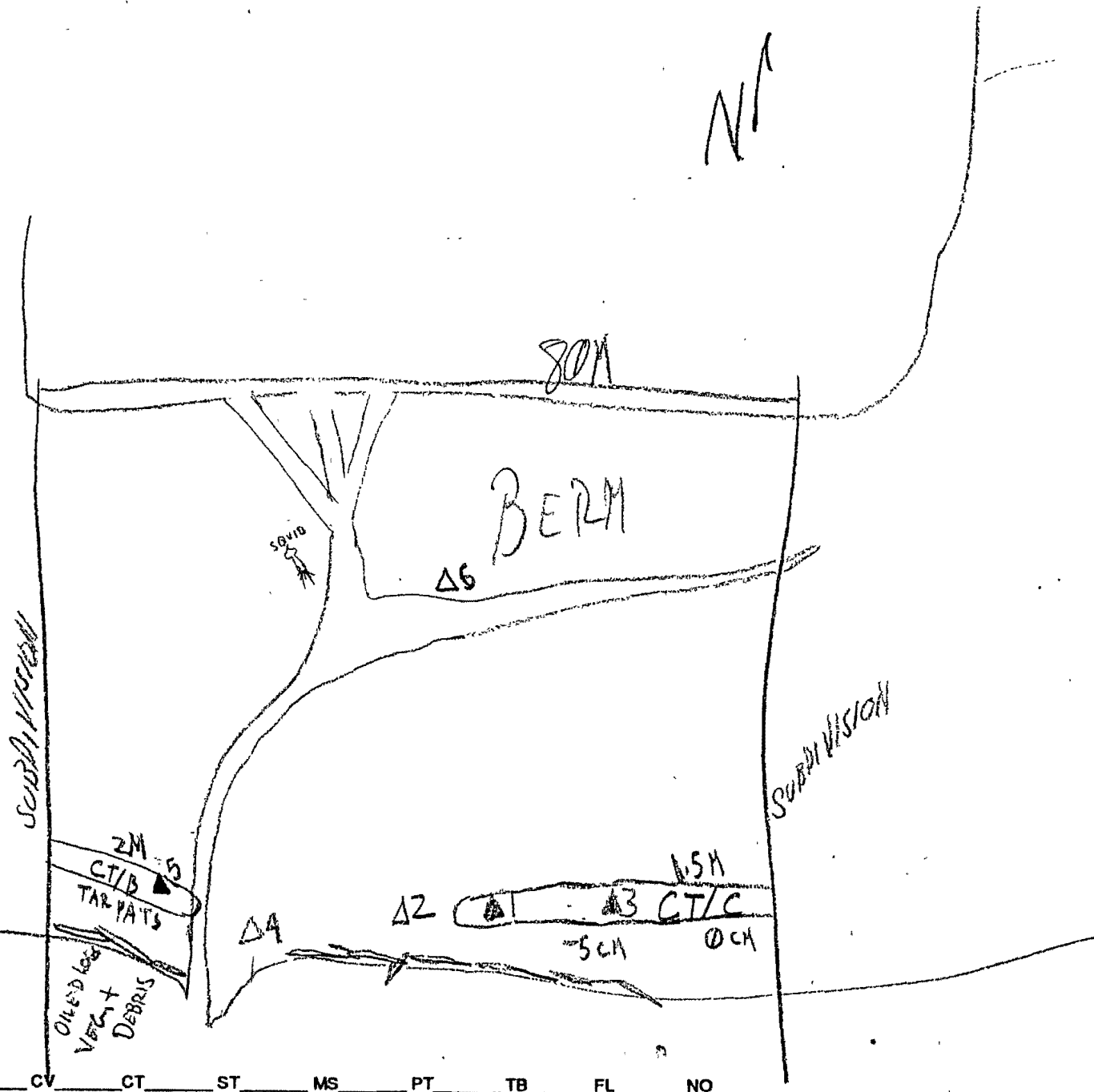
CT/P

Richy Distribution

CT/S

Splashed Distribution

Oiled Vegetation

1. Photo location, direction,
and number

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

REVISION:03/24/90

ACE 7237771

21/53

SSAT DATA ENTRY FORM

PAGE 1 OF 2

GENERAL DATA

SEG ID: EV012 SUBDIV: No No. TEAM: AS-15 SURVEY DATE: 4/22/90
PAVEMENT: CHAR — AREA 0 THICKNESS 0 TARBALLS 0
OILED: LGS SM VEG SM TRH — DBR — WAVE EXP: LW — MD X HG —
FAX RCVD: — DT: — AGENCY DISAGREE: —
EST SUBDIV LGTH: 80 OIL CATEGORY: W 0 M 0 N 50 VL 0 NO 30 U 0

SURFACE DATA

SURFACE SEDIMENT: BRK 0 BLD 0 COB 25 PEB 75 GRN 0 SAN 0 MUD 0 VEG 0

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

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

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

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

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

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

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

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

SSAT DATA ENTRY FORM

SUBSURFACE DATA

PAGE 2 OF 2SEGMENT ID: EV012 SUBDIV: no stream No.

PIT # 1 PIT DEPTH 35 OIL CHARACTER OL OIL INTVAL: FROM 5 TO 10
 QUANT: UC OIL CLR: DBR 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 30 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 20 OIL CHARACTER OL OIL INTVAL: FROM 5 TO 10
 QUANT: UC OIL CLR: DBR FLM CLR: — ZONE: SU — UI X MI — LI —
 SUBSURF SEDIMENT: BRK — BLD — COB X 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 25 OIL CHARACTER OR OIL INTVAL: FROM 0 TO 10
 QUANT: UC OIL CLR: DBR FLM CLR: — ZONE: SU — UI — MI X LI —
 SUBSURF SEDIMENT: BRK — BLD — COB X PEB X GRN X SAN — MUD — VEG —

PIT # 6 PIT DEPTH 40 OIL CHARACTER — OIL INTVAL: FROM 0 TO 0
 QUANT: — OIL CLR: — FLM CLR: — ZONE: SU — UI — MI X LI —
 SUBSURF SEDIMENT: BRK — BLD — COB — 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 —

PROBLEMS: —

Segment EV 012

4/22/90

no stream number

Michael Fawcett

Ecological Summary

This small stream enters via a biologically barren boulder/cobble/pebble/gravel beach in a small cove. More stable sediments and boulder on either end of cove have healthy community of *Fucus*, barnacles, mussels, etc. Two or three harbor seals were hauled out on rocky point at east end of cove when we arrived. One sea otter and a pair of red-breasted mergansers were also seen.

No ecological constraints re: cleanup procedures

M Fawcett

Processed
4/29
R.H.

RECEIVED

APR 21 1990

DEPT. OF
ENVIRONMENTAL CONSERVATION

REGION: PRINCE WILLIAM SOUND

SEGMENT: ST/EV-12

SUBDIVISIONS: A (1 OF 1)

Stream not
in catalog

Test on road side
of stream before
removed by MWD/SCOT

SHORELINE EVALUATION

SEGMENT ST/ EV-12 SUBDIVISION A (1 OF 1) DATE 4/7/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

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

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to unoiled biota and substrate. Stream in segment not in ADF&G anadromous catalogue (USGS Seward A-3; Rev. 12/89).

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: _____ DATE: _____

OILING CATEGORIZATION:

Wide 147 m: Medium 47 m: Narrow 71 m: V.Light 30 m: No Oil 361 m
Subsurface Oil Observed: Yes X No _____ Maximum Depth 15 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 tarmat removal, 2) manual pick up of mousse and oiled pom pom, 3) bioremediation of cover and subsurface oil in areas around pit locations 1 and 2, 4) do not bioremediate around pits 4 and 5 due to the proximity to the stream unless approved by ADF&G and, 5) *Remove oiled logs if >10% coverage or burn in place if too numerous to remove. No specific time constraints identified.

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____
EXXON _____
NOAA _____
USCG _____

FOSC: _____ DATE: _____

ACE 7237776

PWS, SEWARD AND HOMER ECOLOGICAL CONSTRAINTS

- 1A Salmon stream mouth - fry outmigration (3/1 to 5/15)
 1B Salmon stream mouth - spawning (7/10 to 8/31)
 No disturbance of stream bed or banks unless authorized by ADF&G. No beach flushing into stream drainage.
 No bioremediation or other chemical application within 100m of stream. Contact ADF&G Habitat Division prior
 to treatment for permits.
- 1C Salmon fry nursery area (4/31 to 7/31)
 1D Esther Hatchery release (4/15 to 6/1)
 1E Main Bay Hatchery release (4/20 to 5/10)
 1F Sawmill Bay Hatchery release (4/15 to 6/1)
 1G Cannery Creek Hatchery release (4/21 to 6/1)
 1H Remote release site
 1I Gill net area (6/7 to 8/31)
 1J Purse seine area (7/20 to 9/30)
 1K Purse seine hook-off (7/20 to 9/30)
 1L Set net sites (6/11 to 7/25)
 For Codes 1C through 1L contact ADF&G for specific dates, locations and constraints.
- 2M Herring spawning (4/1 to 6/15)
 Restrict boat traffic to essential minimum. Avoid damage to uncoiled intertidal and subtidal algae and seagrass.
 Contact ADF&G for specific dates and locations.
- 3N, 3P Harbor seal and sea lion pupping (5/15 to 7/1)
 3O, 3Q Harbor seal and sea lion molting (8/15 to 9/15)
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m
 horizontal and 300m vertical distance from haulouts.
- 5R Seabird colony (5/1 to 9/1)
 Restrict air traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m
 vertical distance. Contact ADF&G and USFWS prior to treatment.
- 5S Shorebird/waterfowl concentration (4/1 to 5/15)
 Restrict all activity to essential minimum, especially air traffic.
- 5T All Bald Eagle nests (3/1 to 6/1)
 Active Bald Eagle nests (3/1 to 9/1)
 Restrict air traffic to essential minimum. No personnel within 400m. 3/1 to 6/1. Air approach and takeoff from
 and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to
 treatment for confirmation of dates.
- 6U Recreation: Tent sites (6/1 to 9/15)
 6V Anchorages (6/1 to 9/15)
 6W Forest Service cabins (6/1 to 9/15)
 6X Lodge (6/1 to 9/15)
 6Y Special use destination
- 7Z Subsistence area: Salmon harvesting (5/1 to 9/30)
 7HH Finfish harvesting
 7H Deer harvesting (8/15 to 2/28)
 7JJ Invertebrate harvesting
 For Codes 7Z through 7JJ contact ADF&G and Chenega Corporation for specific dates, locations, and constraints.

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / EV -12 SUBDIVISION: _____ DATE 4/07/90

USCG

NAME

R. Hubbard

SIGNATURE

[Signature]

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

I feel some type of manual cleanup be done to eliminate sporadic oil patch.

ADEC

NAME

J. LYNN MARTIN

SIGNATURE

[Signature]

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

AGREE WITH EXXON OPS. RECOMMENDATION FOR MANUAL REMOVAL OF ASPHALT AND POOLED OILS AREAS. DUE TO THE SIZE OF BEACH I WOULD ALSO SUGGEST MANUAL REMOVAL OF SUBSURFACE OIL ON EAST SIDE OF STREAM. STREAM SHOULD ALSO BE REVIEWED BY ALCAD SCAT. SUPER-TIDAL SHOULD REVIEWED AFTER SNOW MELT

LAND MANAGER

NAME

Robert Selmer

SIGNATURE

[Signature]

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

Agree with ADEC

SHORELINE OILING SUMMARY

REVISION NO. 03/22/90

OG Reimer USCG Hubbard SEGMENT ST/ EV-12
 BIO Zamora LAND REP Selanoff (cvs) SUBDIVISION _____
 EXXON Garcia ADEC Martin TIME 18:30 to 19:20
 TEAM NO.: 16 TIDE LEVEL: +0.5 to +1 DATE 4/7/90
 EST. SUBDIVISION LENGTH: SAZ m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☒ Rock SNOW
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: East to West
 SURFACE SEDIMENTS: R 10 % B 30 % C 20 % P 10 % G 25 % S 5 % M - % V - %
 SLOPE: Lang 40 % Hang 60 % Vert - % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 150 m M 15 m N 20 m VL 25 m NO 332 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	IC	IS	IP	IR	SB	SB	SB	SB	SB	SB	SB	SB	SU	UI	MI	LI
ASPHALT PAVEMENT		X	✓										X	✓		
POOLED																
COVER	✓			X									X	✓		
COAT																
STAIN																
MOUSSE				X								X	X	X		
PATTIES																
TARBALLS				X								X		X		
FILM																
NO OIL																X

PAVEMENT: H F (S) 10 sq. m by 3 cmPATTIES / TARBALLS 1 BAGS

NEAR SHORE SHEEN? NO BR RW SL TL

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

DEBRIS COLLECTED ☐ 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	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UO	UC	SB	BR	BL	FW	OL	BL	OR	TL	LR	SU	UI	MI		
1	10	X					5 - 10	X							X		X						PG B
2	12	X					5 - 12	X							X			X					PG C
3	30					X	-												X				PG
4	50	X					7 - 15		X						X			X					PG
5	15		X				5 - 10		X						X				X				PG
6	30					X	-											X					PG

COMMENTS

Small pocket beach with rocky headlands on either side and fresh water stream in center of bay. Sporadic oil cover on rocky headland on east side of segment. Asphalt mats along east rocky cliff in upper/super tidal zone and on beach just to west of stream. A sporadic cover of oil was found across most of beach (3-10%) in mid-upper tidal zone. From pit observations this oiling is heavier and wider on east side of stream. This subsurface band appears to connect with asphalt along rock cliffs.

Page 1 of 6

REVIEWED [Signature]DATE 4/11/90

ACE 7237779

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22/90

Segment ST / EV 12 Subdivision — Date (mo / day / yr) 4 / 7 / 90
 Time (24 hr) 1830 on 1930 off Biologist TONY RAMORA

- (A) Substrate type and % of segments:
 (1) Bedrock 10 (2) Boulder 30 (3) Cobble 20 (4) Pebble 35 (5) Sand 5 (6) Silt 10
- (B) Overall % cover of biota (% of segment): Dense 5 Moderate 15 Low 80
- (C) Density, substrate preference (by number from A, above), & vertical zonation of major taxa: (upper-U; mid-M; low tidal-L); juveniles / adults (X), new settlement (3)

Photographs:
 Roll No. ST-16-0
 Frames 1-10

BARNACLES

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	X	2	2	X	X	2	2	2	2
3	3	3	3	3	3	X	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

MYTILUS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	X	2	2	2	X	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

GASTROPODS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	X	X	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

FUCUS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	X	X	X	X	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

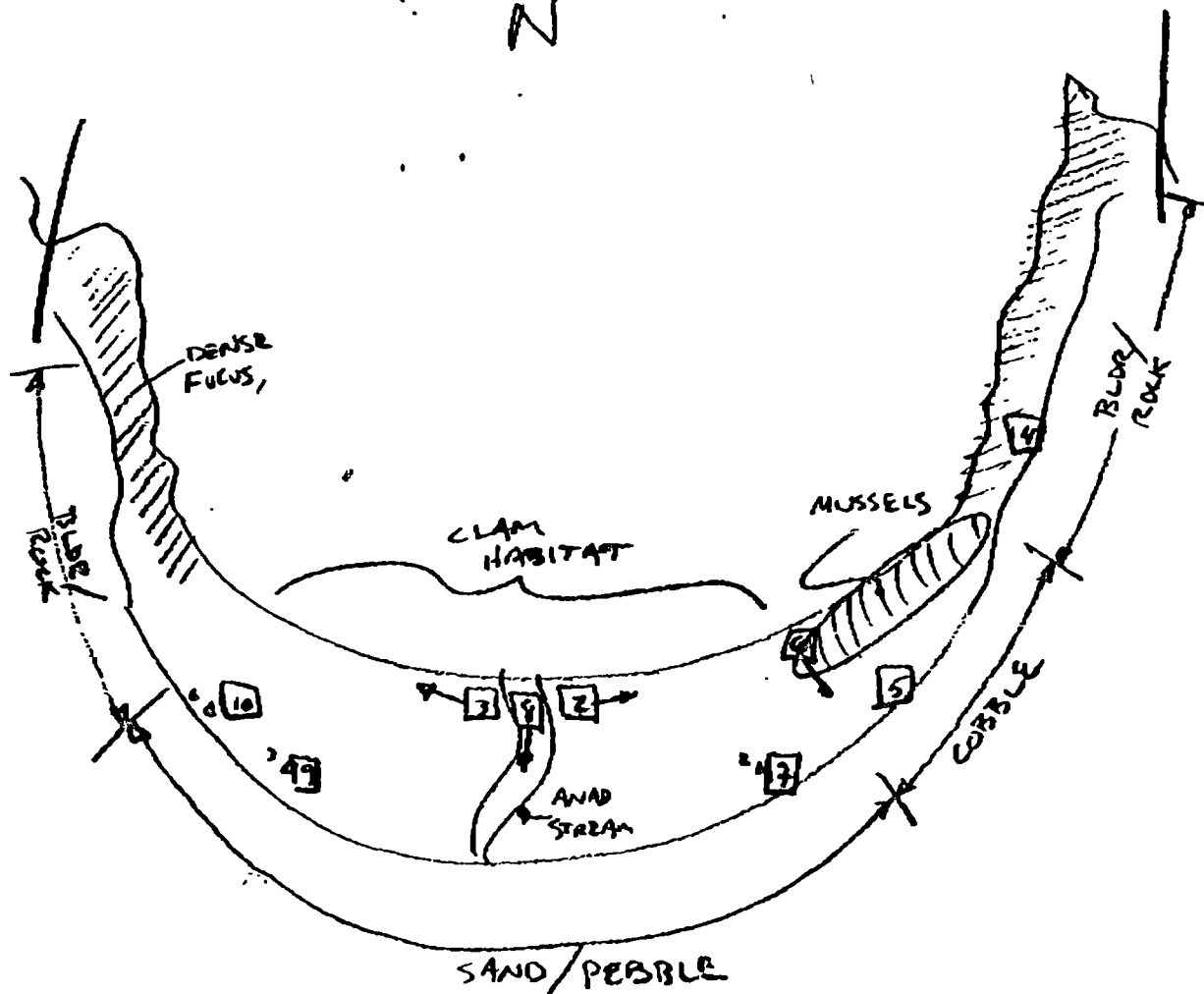
Wildlife Observations/ General Comments:

- OBSERVED 4 OTTERS; 1 CORNCRANT
 - EGGS - GASTRO UNID IN MI, POLLINICES egg CASE
 - LG CLAM SHELLS SEEN, PTEROPODA IN LI
- Ecological Considerations: 7II, 7JJ, 1A/B

(MAP ON REVERSE)

EU-12

PHOTO LOCATIONS



EV-13

EV-

EV-12

EV-40

XXXX Wide

//// Medium

---- Narrow

TTTT Very Light

0000 No Oil

EV-12

ADEC Segment Length: 667m



Map Key: PWS-180

Name: Reimer

Date: 4/7/90

Date Entered:

ACE 7237783 -/S

ADF&G MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS SS DS TS AVS SCHA MMHS PTA2 REGION: PWS KP, CI K, APMETHOD: Aerial Ground Boat3 DATE: 4/12/9015 HIGH TIDE TIMES: /

21 TEAM RECORDER: _____

4 START TIME: 083716 HIGH TIDE HTS: /22 OBSERVERS: TOM CROWE5 STOP TIME: 084617 LOW TIDE TIMES: /23 AGENCY: ADF&G6 SEGMENT #: RVD1218 LOW TIDE HTS: /24 PHOTOS TAKEN: Y N

7 STATION #: _____

19 TIDE HT AT SURVEY: _____

Roll #: _____ Frame: _____

8 K-UNIT: _____

Ebb Slack Flood Slack

25 VIDEO TAKEN: Y N TAPE#: _____

9 STAT AREA: _____

20 USCG QUAD: _____

Start: _____ End: _____

10 LAT: _____

11 LONG: _____

26 SAMPLES TAKEN? Y N Number _____

12 SOURCE: Map Loran

Oil _____

13 LOCATION: LATOUCHÉ

Sediment _____

14 DESCRIPTION: _____

Biological _____

Water _____

EXTENT OF OIL

27 SURFACE COVERAGE

SHORELINE				STREAM			
L	W	M ²	%	L	W	M ²	%

36 CATALOGED ANAD. FISH SREAM? Y N

28 SURFACE THICKNESS

37 CATALOG #: NONE

29 PENETRATION

38 STREAM NAME: _____

30 OVERALL OIL IMPACT: N VL L M H

39 OIL IN STREAM BED? Y N31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain40 OIL ON STREAM BANKS? Y N32 OILED DEBRIS? Y N41 OIL ON BEACH ADJACENT TO MOUTH? Y N
(within 50 meters)42 OIL WITHIN 1 MILE OF STREAM? Y N

Where: _____

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

43 ANADROMOUS FISH PRESENT? Y N

34 WAVE EXPOSURE: High Moderate Low

44 ANADROMOUS FISH OBSERVATION

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

Species Aerial Ground

COMMENTS: LIGHT SMOKE WHEN DISTURBED STREAM SUBSTRATE.HEAVY ASPHALT/TAR IN STREAM BEDS COVERED WITH OIL.

ACE 7237784 +15

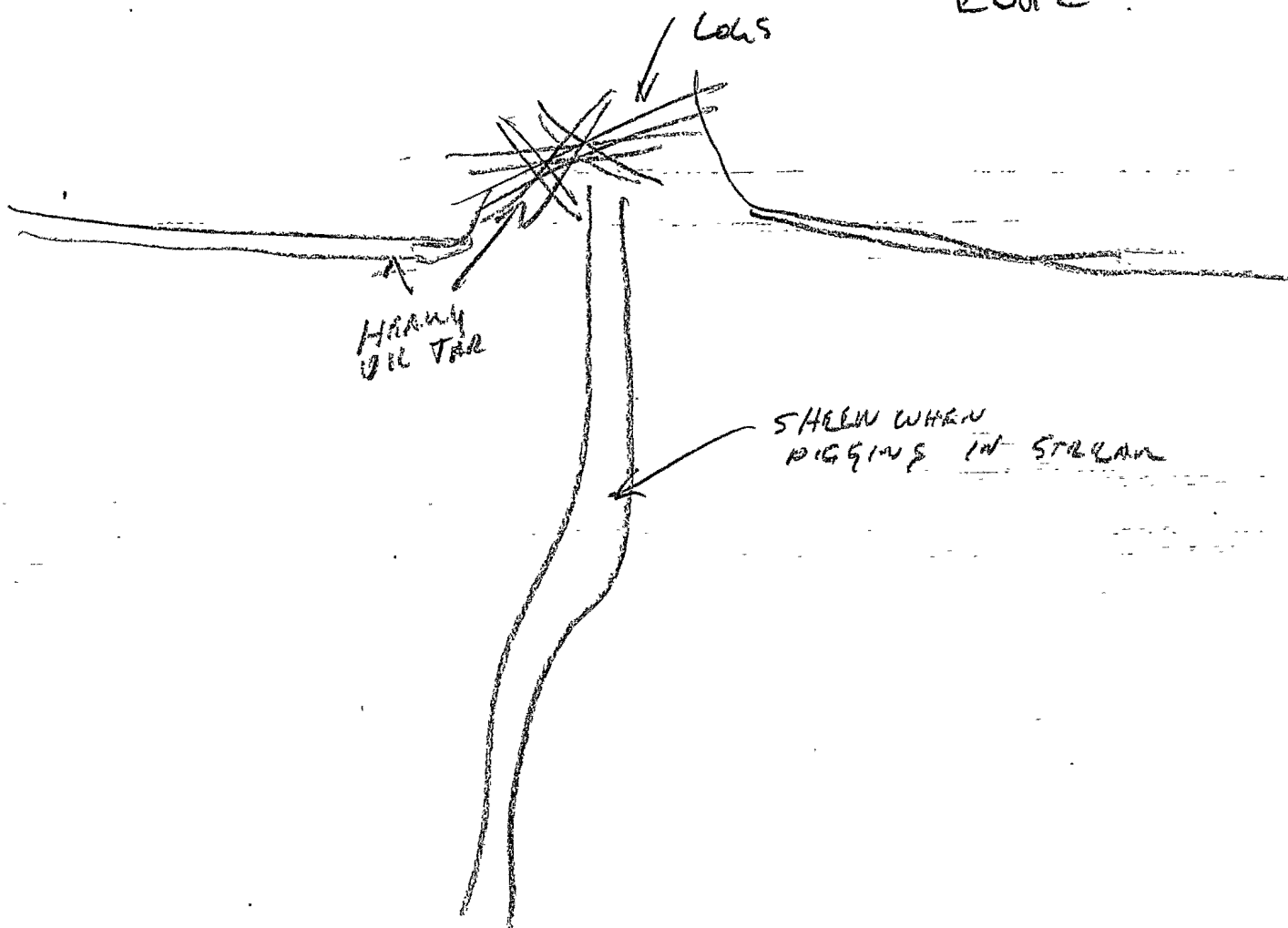
FRAME(S)

DESCRIPTION

46 OIL DISTRIBUTION DIAGRAM

NO. ASC

EUN 2



= Sample taken
 = Photo frame # and
 shot direction.

ACE 7237785-15

(version 6/14/89)

SHORELINE CLEANUP PROGRAM

DATE 6/24/89

SHORELINE SEGMENT EV-12

LOCATION: (see enclosed map) EVANS ISLAND-NORTHEAST SIDE

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 6/17/89

Recommended Cleanup Activity(ies):

Manually remove contaminated drift material (fucus).
Use moderate to high pressure washing on rock and oiled logs.
Use other approved methods as appropriate.
Relocate contaminated sediments (particularly from the storm berm) into unvegetated areas in the lower intertidal zone (above MLL mark and mussel beds) using front end loader. Treat sediments with hot water flush and manual agitation. A small trench below the area may facilitate recovery of oil. Trench is to be filled after treatment.
Beach stability will be reassessed and any necessary restoration work completed prior to demobilization PWS.

Priorities Considerations:

Class 1: Heavy oil/time sensitive.
Class A: Subsistence resources present.

Ecological Constraints (from site survey): Work at mid tide and/or take appropriate measures to protect lower intertidal zone.

Archeological Constraints (from site survey):

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

Douglas Regier
State Historic Preservation Officer *

Date: 6/29/89

ISCC: _____

Date: _____

EXXON: _____

Date: _____

FOSC: _____

Date: _____

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

ACE 7237786 +15

SHORELINE OIL EVALUATION

Date: 6/17/89 Time: 18:00

Observer: Rick Grue

Surveyed From: Foot/Boat/Helio/Plane

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION EVANS ISLAND SEGMENT NUMBER EV-12

LENGTH OF SHORELINE SEGMENT: 650 m

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

SHORELINE:

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

Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B 20% / C 20% / P 10% / G ___% / S ___% / M ___% / R 50%

LOGS
FUELS

Drift Debris on Beach: Yes/No

Supra/Upper/Mid/Lower Type

OIL

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

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

Continuous: Y/N

% of Segment 100

Width of Band: 20-30 m

Sporadic: Y/N

% of Segment

Est. Oil Thickness where > 1cm: ___ cm

Est. Oil Penetration: +30 cm

Pooled Oil: 1% "Free" Oil: ___% Coated: H 70% / M 20% / L 10%

Fresh ___%

Mousse 5%

Tar Formation: 95%

Drift Debris Oiled ?

Yes/No Supra/Upper/Mid/Lower Amount: H/M/L/

Comments:

① MIGRATING BEACH RIDGE IN MTZ IS BURYING
OILED COBBLE SURFACE AT MID TO HTZ.

② HEAVILY OILED ACCUMULATION OF BERM RIDGE
DEPOSITS

Map/Aerial photo mark: ☒ segment boundaries

EV-12 ATTACHED

VTR: Y/N ☒ Tape Number(s) _____

Photography: Y/N ☒ Roll Number(s) _____

T4G-2

Sample Numbers Collected: _____

N/A

6/17/1989

SEGMENT EV-12

12:00

- Moderate to Heavily oiled beach along entire segment.
- Heavily oiled barn deposits to 0.3m deep.
- Migrating gravel / pebble ridge in MTZ is during oiled cobble surface
- Moderately oiled boulders on both east and west side of embayment overlying a wave-cut platform
- Low to Mod wave energy

Rick Grille

Recommended Clearance

- ① Manual - debris / mousse
- ② High pressure - rocks
- ③ Flood / warm water on boulder / wave-cut platform on side of bay
- ④ Remove and clear beach sediments (heavily oiled) in beach berm
- ⑤ Other appropriate techniques.

There is a lot of oil in this bay, which should be removed.

⑥ Make effort to keep oil clean-up out of stream.

Ricki Grille

EV-120



Heavy oiled
boulder / cobble

20-30m wide
moderately oiled

Boulders
over wave
cut platform
in rock

20m band moderate oil

Boulders
over wave
cut platform
20m band
moderate oil

Some wave
pools

Boulders over
wave cut platform

Stream Delta

Moderately oiled
Heavily oiled bar
deposit

HEAVILY OILED
BAR

Grass

6/17/1989

ACE 7237791

ECOLOGICAL EVALUATION

LOCATION: Evans Island SITE: Northeast side OBSERVER: MEYER

LOCATION PREFIX: EV SEG. NO.: 12 LENGTH: 650 (M)

DATE: 06/17/89 TIME (HHMM): 1800 TIDE HT.: +4FT (M)

OILED ZONE: Splash High Medium Low

SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud

LIVE BIOTA

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

Patches of fucus are oiled and unhealthy. Healthy and unoiled below oiled boulder/cobble area at east end of segment.

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

Some mytilus at LTZ are oiled, but alive.

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

Particularly along boulders at edges of beach. Spat in LTZ + MTZ.

Littorina

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

No muella observed.

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

OTHER OBSERVATIONS: Stream in segment is small and unlikely to be an anadromous stream - it is not listed in the ADFG anadromous stream catalogue.

CLEANUP PRECAUTIONS: Protect unoiled mussels in LTZ as much as possible.

Check with ADFG on potential salmon stream, and if it is an anadromous stream notify ADFG and RAT 48 hours prior to beginning any cleanup in this segment.

MAMMALS: Otters Harbor Seals Sea Lions Whales
Other

BIRDS: Bald Eagle - 1

GENERAL OBSERVATIONS: Not many sea stars observed - a few pisaster, pycnopodia at rock point on east edge of segment.

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 6/17/89 Location Evan Island Site _____

Location Prefix EV Segment # EV-12 Length 650

Survey Method:

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

Ground ✓ (G - indicate on map)

Known cultural resources (AHRS #) None Data Source None

Oil conditions/beach visibility moderate to heavy

Width of beach zone surveyed 30 m Tree fringe surveyed 10m

Cultural resources observed in beach zone (AHRS code) None

Cultural resources observed in tree fringe (AHRS code) None

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

Shore Profile beach is broad, flat and gravel-covered

Fresh Water Sources small stream

Sea Exposure protected to north

Access/Safety good

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

Monitoring during cleanup needed yes no Collection yes no

Photos: Color Roll # _____ Frames _____

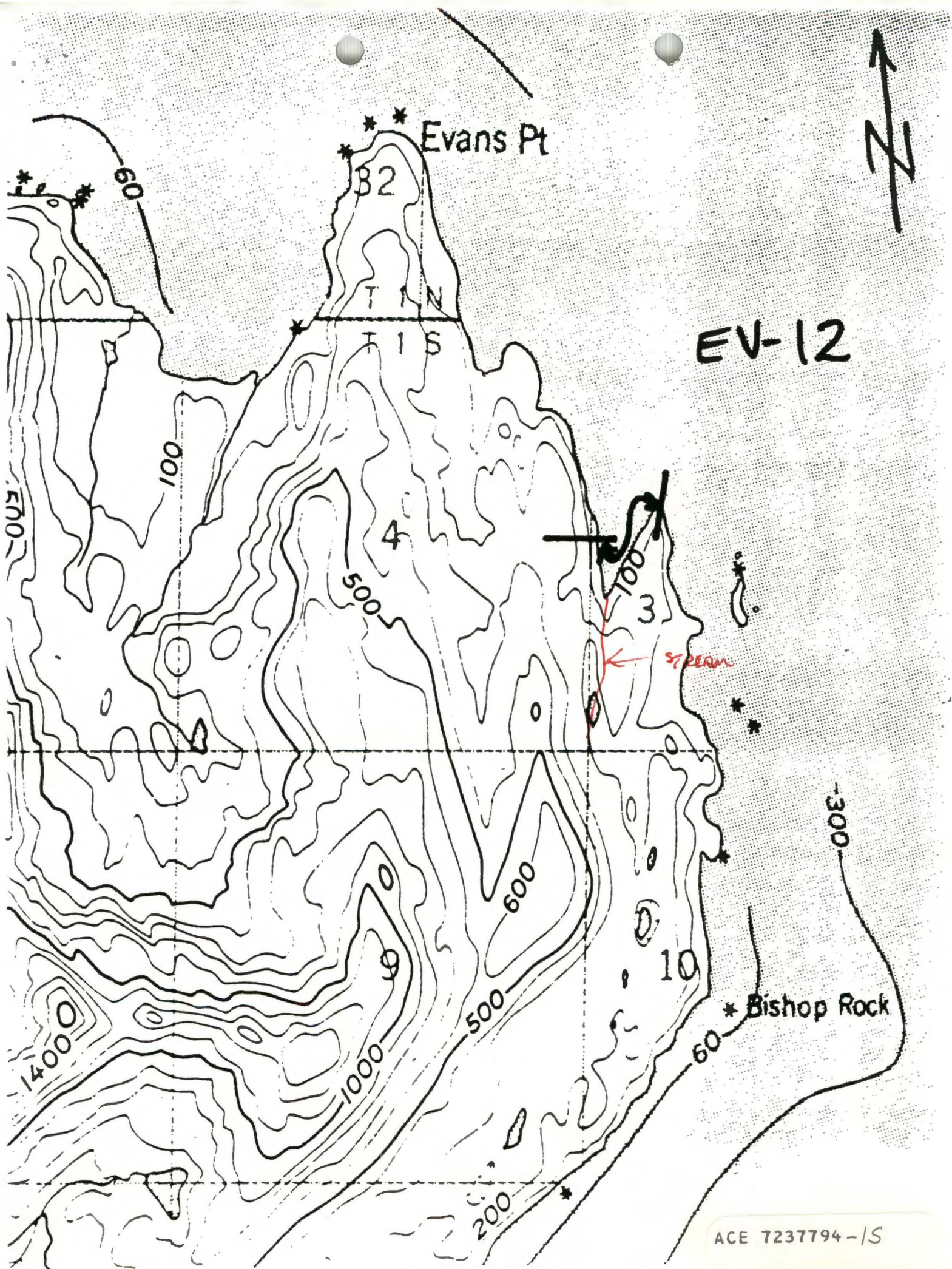
B/W Roll # _____ Frames _____

Observer(s) C. Wilson

Time survey started 1715 1800 Time survey ended 1900

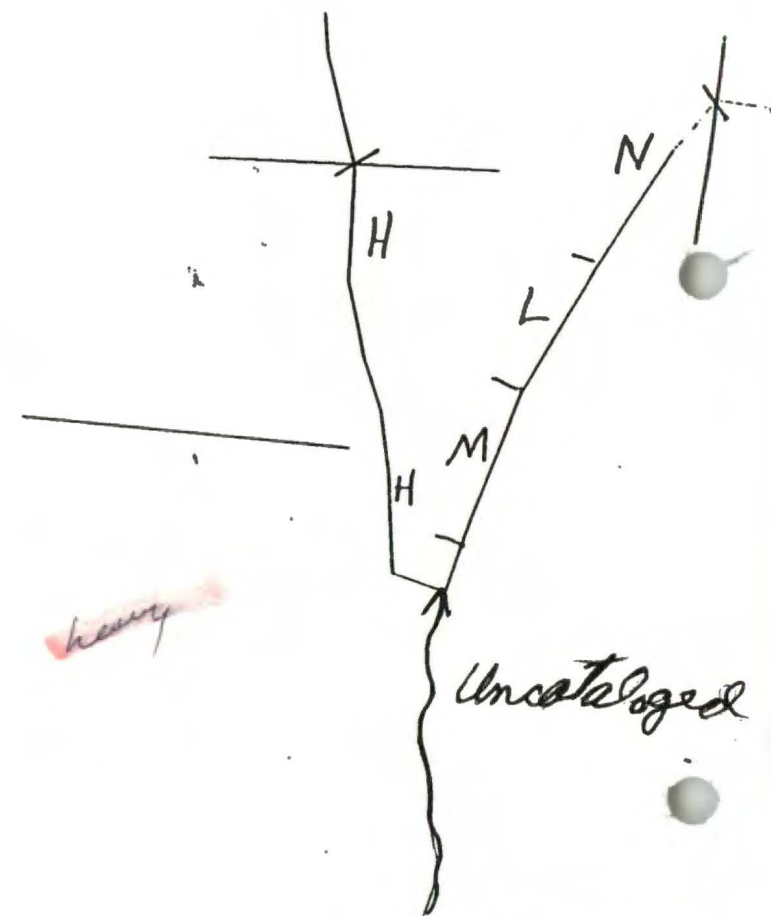
Cultural resource considerations/restraints:

If heretofore undiscovered cultural materials are uncovered during cleanup contact Evan arch-aeologist, C. Mohley, immediately



EV012

500.0



ACE 7237795-1/L/AC/FF

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

