

EV-005 ASC: 226-40-16580
EVANS ISLAND NE TIP PENINSULA

ACE 1369553



DOCUMENTS IN STREAM FILES

ASC# _____ Segment # _____

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

____ '90 Pre-Anadscat Survey, multi-assessment form
____ '90 Anadscat Survey
____ '90 Anadromous Fish Stream Evaluation (work order)
____ '90 Anadromous Fish Stream Addendum to work order
____ '90 Shoreline Evaluation, SAT and work order for segment
____ '90 Anadromous Fish Stream Authorization, Title 16 permit
____ '90 Stream Treatment Report
____ '90 ADEC Demobilization Report for Bio
____ '90 ADF&G Oiling Condition Survey, for ASAP use (Aug. 5, 1990)
____ '90 ASAP Survey ____ ASAP Rec. ____ ADEC Rec. (____)
____ '90 Other Documents _____

ATW
Pre-ANADSCAT-90

ADF&G MULTI-ASSESSMENT DATA FORM

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

2 REGION: PWS KP,CI K,AP

METHOD: Aerial Ground Boat

3 DATE: 4/11/90

15 HIGH TIDE TIMES: 1

21 TEAM RECORDER: P. Gysth

4 START TIME: 1015

16 HIGH TIDE HTS: 1

22 OBSERVERS: 1

5 STOP TIME: 1020

17 LOW TIDE TIMES: 1

23 AGENCY: ADP&G H&B

6 SEGMENT #: EU005

18 LOW TIDE HTS: 1

24 PHOTOS TAKEN: Y (N)

7 STATION #: _____

19 TIDE HT AT SURVEY: _____

Roll #: _____ Frame: _____

8 K-UNIT: _____

Ebb Slack Flood Slack

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

9 STAT AREA: _____

20 USCG QUAD: _____

Start: _____ End: _____

10 LAT: _____

11 LONG: _____

26 SAMPLES TAKEN? Y (N) Number _____

12 SOURCE: Map Loran

13 LOCATION: Evans Is.

14 DESCRIPTION: NE tip peninsula

Oil _____

Sediment _____

Biological _____

Water _____

EXTENT OF OIL

27 SURFACE COVERAGE

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

28 SURFACE THICKNESS

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

29 PENETRATION

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

30 OVERALL OIL IMPACT: N VL L M H

31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain

32 OILED DEBRIS? (Y) N

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

34 WAVE EXPOSURE: High Moderate Low

35 SUBSTRATE TYPE: Bedrock ✓ Boulder ✓ Cobble _____

Gravel _____ Sand _____ Mud/silt _____

36 CATALOGED ANAD. FISH STREAM? (N)

37 CATALOG #: 16580

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: bedrock cliffs

43 ANADROMOUS FISH PRESENT? (Y) N

44 ANADROMOUS FISH OBSERVATION

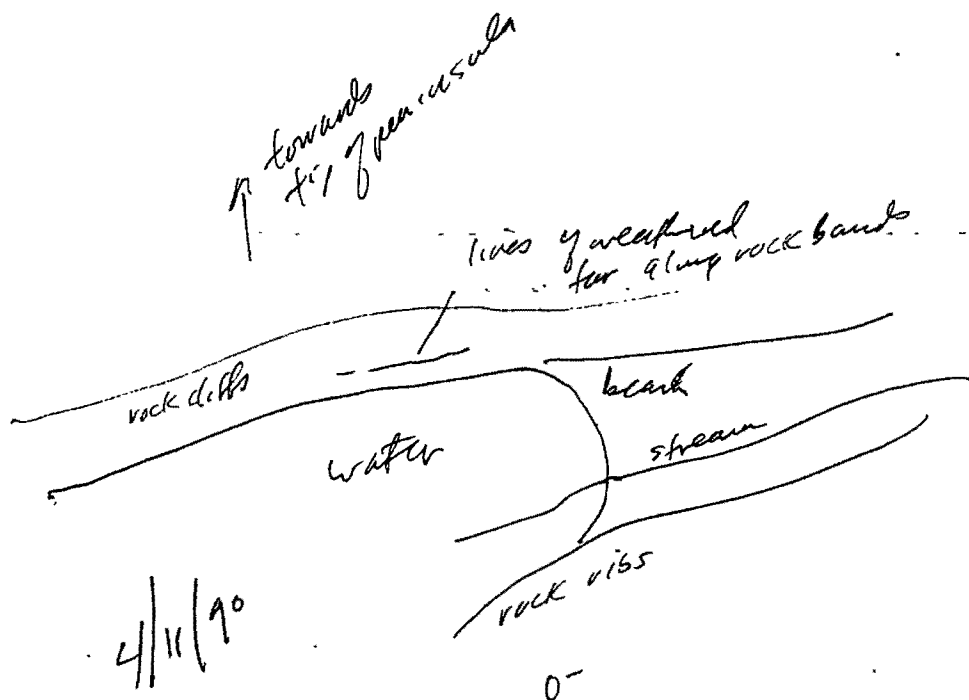
Species Aerial Ground

COMMENTS: Oil noted on flabby bedrock on north shore
of stream - impregnated with needles. weathered tar
like coating band extends along cliff edge.
No oil noted in stream or stream edge.
penetration of oil - (surface)

ACE 7237651+15

FRAME(S)

DESCRIPTION

46 OIL DISTRIBUTION DIAGRAM

Recommendations - either leave it or
steam clean to remove.

286-40-16580 AJW
EVOOS

ASC NUMBER:

SEGMENT NUMBER:

YR CATALOGED:

LOCATION:

STREAM NAME:

KODIAK K-UNIT:

USGS QUADRANGLE:

SHORELINE TYPE:

LOCAL STREAM #:

ALL SEGMENTS:

LATITUDE:

LONGITUDE:

LEGAL: S

ASC NUMBER: 226-40-16580

SURVEY TYPE:

METHOD:

DATE: 4/11/90

START TIME:

STOP TIME:

TEAM RECORDER:

OBSERVERS:

AGENCY(IES):

PHOTOS TAKEN?

Roll #:

Frames:

VIDEO TAKEN?

Tape Number:

Counter Start:

WAVE EXPOS:

SAMPLES TAKEN?

SAMPLE I.D. NUMBERS: 1.

2.

3.

4.

5.

6.

	LENGTH	WIDTH	M2	%	THICK	PEN	OIL TYPE
SITE 1							CT
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:

EV005

500.0



VL

16582

16580

VL

16577

LM

OILING

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

Distance In Meters

ACE 7237654

-H/AC/FF

CATALOG NUMBER: 2264016580

STREAM NAME:

LOCATION: EVANS ISLAND, NORTH TIP

SEGMENT NUMBER: EV005

SHORELINE TYPE:

DATE: 04/11/90 TIME: COVE -1020

SITE	WIDTH (m)	LENGTH (m)	AREA (sqm)	PERCENT OIL	THICKNESS (cm)	PENETRATION (cm)	SURFACE SUBSURF	OIL TYPES	COMMENTS
1					<1mm		SURFACE	CT	North side of stream - lines of weathered tar along rock bands

COMMENTS: Pre-Anadscat

OIL NOTED ON FLAKY BEDROCK ON NORTH SHORE OF STREAM - IMPREGNATED WITH NEEDLES. WEATHERED TAR LIKE COATING BAND EXTENDS ALONG CLIFF EDGE. NO OIL NOTED IN STREAM OR STREAM EDGE. PENETRATION OF OIL - (SURFACE). RECOMMEND FOR ANADSCAT.

RECOMMENDATIONS: EITHER LEAVE IT OR STEAM CLEAN TO REMOVE.

STREAM BANKS: YES

MILE OF STREAM: YES, BEDROCK CLIFFS - NORTH OF STREAM

OIL ON
OIL WITHIN 1

No Anadscat conducted; due to light oiling.

DATE		SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
04/11/90		PRE-ANADS CAT	1	SURFACE		<.1	CT	NORTH SIDE: LINES OF WEATHERED TAR ALONG ROCK BANDS.

MAD vs. OG:
COMMENTS:
OIL NOTED ON FLAKY BEDROCK ON NORTH SHORE OF STREAM - IMPREGNATED WITH NEEDLES. WEATHERED TAR LIKE COATING BAND EXTENDS ALONG CLIFF EDGE. NO OIL NOTED IN STREAM OR STREAM EDGE. PENETRATION OF OIL - (SURFACE). RECOMMEND FOR ANADSCAT. RECOMMENDATIONS: EITHER LEAVE IT OR STEAM CLEAN TO REMOVE. (NO ANADSCAT WAS CONDUCTED DUE TO LOW OILING).

CATALOG NUMBER: 2264016580		SEGMENT#: EV005		LOCATION: EVANS ISLAND, NORTH TIP		SEQ:	
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
04/11/90	PRE-ANADS CAT	1	SURFACE		<.1	CT	NORTH SIDE: LINES OF WEATHERED TAR ALONG ROCK BANDS.
MAD vs. OG: COMMENTS: OIL NOTED ON FLAKY BEDROCK ON NORTH SHORE OF STREAM - IMPREGNATED WITH NEEDLES. WEATHERED TAR LIKE COATING BAND EXTENDS ALONG CLIFF EDGE. NO OIL NOTED IN STREAM OR STREAM EDGE. PENETRATION OF OIL - (SURFACE). RECOMMEND FOR ANADSCAT. RECOMMENDATIONS: EITHER LEAVE IT OR STEAM CLEAN TO REMOVE. (NO ANADSCAT WAS CONDUCTED DUE TO LOW OILING).							

Anadscat survey not
conducted due to light
oiling AW 10/13/91

Pre-ANADSCAT-90

ADF&G MULTI-ASSESSMENT DATA FORM

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

2 REGION: PWS KP, CI K, AP

METHOD: Aerial Ground Boat

3 DATE: 4/11/90

15 HIGH TIDE TIMES: 1

21 TEAM RECORDER: R. Gysth

4 START TIME: 1015

16 HIGH TIDE HTS: 1

22 OBSERVERS: 1

5 STOP TIME: 1020

17 LOW TIDE TIMES: 1

23 AGENCY: ADP& H&B

6 SEGMENT #: EU005

18 LOW TIDE HTS: 1

24 PHOTOS TAKEN: Y (N)

7 STATION #:

19 TIDE HT AT SURVEY:

Roll #: Frame:

8 K-UNIT:

Ebb Slack Flood Slack

25 VIDEO TAKEN: Y (N) TAPE#:

9 STAT AREA:

20 USCG QUAD:

Start: End:

10 LAT:

11 LONG:

26 SAMPLES TAKEN? Y (N) Number

12 SOURCE: Map Loran

13 LOCATION: Evans Is.

14 DESCRIPTION: NE tip peninsula

Oil

Sediment

Biological

Water

EXTENT OF OIL

27 SURFACE COVERAGE

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

28 SURFACE THICKNESS

29 PENETRATION

30 OVERALL OIL IMPACT: N VL L M H

31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain

32 OILED DEBRIS? (Y) N

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

34 WAVE EXPOSURE: High Moderate Low

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

36 CATALOGED ANAD. FISH STREAM? (N)

37 CATALOG #: 16580

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: bedrock cliffs
north of stream

43 ANADROMOUS FISH PRESENT? Y N

44 ANADROMOUS FISH OBSERVATION

Species Aerial Ground

COMMENTS: Oil noted on flakky bedrock on north shore

of stream - impregnated with needles. weathered tar
like coating band extends along cliff edge.

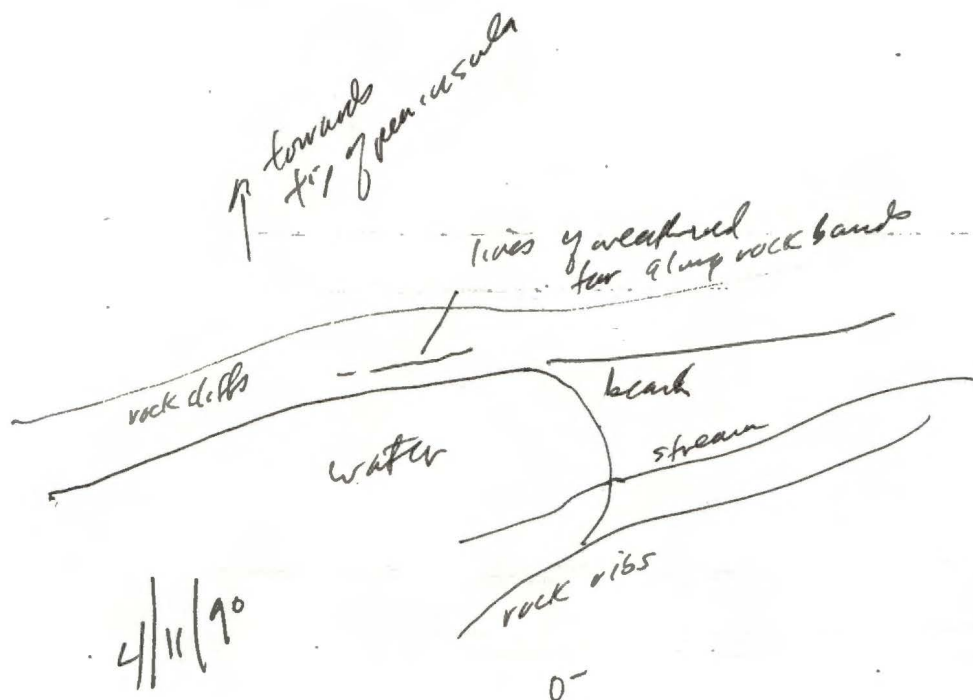
No oil noted in stream or stream edge.

penetration of oil - (surface)

ACE 7237651+15

FRAME(S)

DESCRIPTION

46 OIL DISTRIBUTION DIAGRAM

Recommendations - either leave it or
stream clean to remove.

226-40-16580 AJW
EVOOS

• Sample taken
• Photo frame # and
shot direction.

ACE 7237652 -/s

ANADSCAT-98

OPERATIONS FIELD NOTES

1A/38

See Back for Instructions

SEGMENT ID EU-005
 STREAM ID # 226-40-16580
 ANNOTATED MAP INCLUDED Y/N

DATE 4/27/90
 NAME Snook
 TEAM # 14/15

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

SUBSURFACE OIL

Other (Describe)?	

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

MANUAL PICKUP	Type of Debris			In Meters		# of Bags	Pickup Y/N	Manday Estimate
	Mousse Tarballs	Oiled Veget	Cleanup Debris	Length	Width			
"Pocket" #1								
"Pocket" #2								
"Pocket" #3								
Random/Continuous								

OILED LOGS Y/N	OILING H/M/L	QUANTITY L/M/S	BURN Y/N
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Is there Other Debris on the Beach? Y/N How Many Bags? _____ Is it mingled with the Oiled Debris Y/N

GENERAL Snow covering ____% of the Supratidal Zone?
 Wave Exposure H/M/L Access Limitations: _____
 Snare Boom/Pom Poms Recommended? _____

Would the production Craft have to be relocated to complete work on this subdivision? Y/N, # of Times _____

COMMENTS: NO TREATMENT RECOMMENDED - BASED ON ADFIG
PRESURVEY DOCUMENTATION OF THIS STREAM.
- WEATHERED LIGHT COATING BAND -

ACE 7237611+13

NOTE: THE FOLLOWING COMMENTS & RECOMMENDATIONS ARE BASED ON
PRESURVEY ~~AND~~ DOCUMENTATION OF THIS STREAM BY RICK GUSTIN ON
4/11/90 REVIEWED BY USCG & ADF&G. PRESURVEY DOCUMENTATION IS
FIELD SHORELINE COMMENT SHEET

ATTACHED.
AL SNOOK
EXXON REP.

ASC#:

SEGMENT ST 1 EV-005 SUBDIVISION: 226-40-16580 DATE 4/27/90

USCG

NAME KERWIN L. DREHER

SIGNATURE CWO K. L. Dreher

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

~~ADEC~~ ADFG

NAME RICK GUSTIN

SIGNATURE

Richard Gustin

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

This light coating of oil on the cliff
is weathered and stable and is such a small
amount it should be left to weather away
naturally.

~~LAND MANAGER~~

NAME

SIGNATURE

☐ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

ACE 7237612

ADFLG MULTI-ASSESSMENT DATA FORM

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

2 REGION: PWS XP, CI K, AP

METHOD: Aerial Ground Boat

3 DATE: 4/11/96

15 HIGH TIDE TIMES: 1

21 TEAM RECORDER: R. Guter

4 START TIME: 1015

16 HIGH TIDE HTS: 1

22 OBSERVERS: 1

5 STOP TIME: 1020

17 LOW TIDE TIMES: 1

23 AGENCY: ADP& H&B

6 SEGMENT #: EV005

18 LOW TIDE HTS: 1

24 PHOTOS TAKEN: Y (N)

7 STATION #:

19 TIDE HT AT SURVEY:

Roll #: Frames:

8 K-UNIT:

Ebb Slack Flood Slack

25 VIDEO TAKEN: Y (N) TAPES:

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: Evans Is.

Sediment:

14 DESCRIPTION: NE tip peninsula

Biological:

Water:

EXTENT OF OIL

	SHORELINE				STREAM			
	L	H	M	S	L	H	M	S
27 SURFACE COVERAGE								
28 SURFACE THICKNESS								
29 PENETRATION								

30 OVERALL OIL IMPACT: H VL L M H

31 OIL TYPE: Pooled Mousse Tar (Asphalt) (Sludge) Stain

32 OILED DEBRIS? (Y) N

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

34 WAVE EXPOSURE: (High) Moderate Low

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

36 CATALOGED ANAD. FISH STREAM? (N)

37 CATALOG #: 226-40-16580

38 STREAM NAME:

39 OIL IN STREAM BED? Y (N)

40 OIL ON STREAM BANKS? (Y) N

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

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

Where: bedrock cliffs
mouth of stream

43 ANADROMOUS FISH PRESENT? Y N

44 ANADROMOUS FISH OBSERVATION

Species	Aerial	Ground

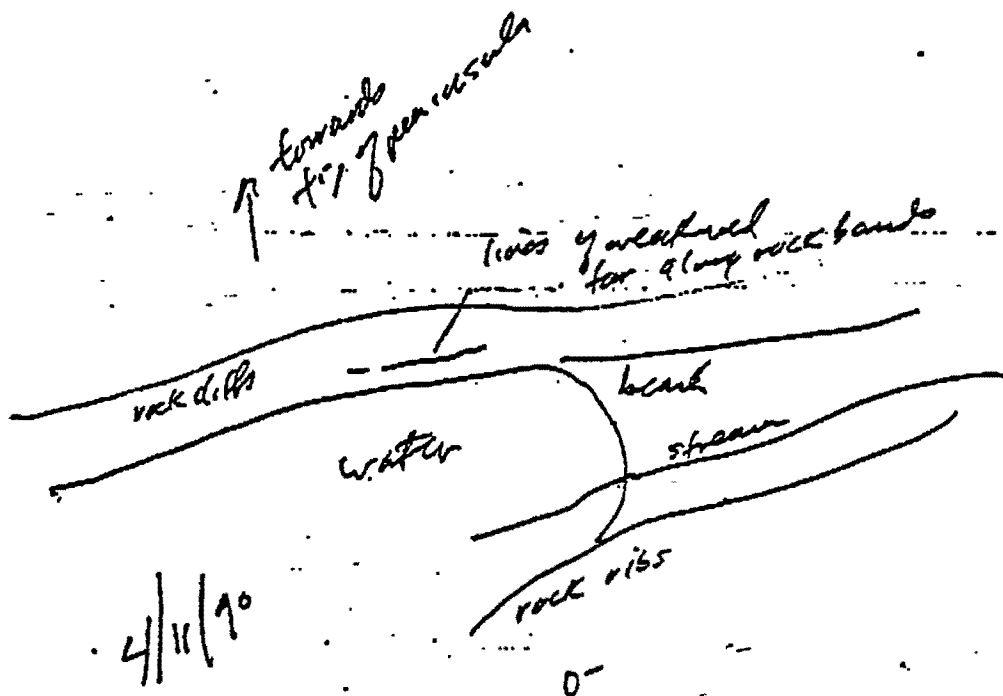
recommended for analysis

COMMENTS: Oil noted on flatbed bedrock on north shore
of stream - impregnated with needles. weathered tar
like coating band extends along cliff edge.
No oil noted in stream or stream edge.
penetration of oil - (surface)

FRAME(S)

DESCRIPTION

48 OIL DISTRIBUTION DIAGRAM



Recommendations - either leave it or
stream clean to remove.

sample taken
note frame # and
not direction.

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: EV005
LOCATION: N EVANS ISLAND

DATE: 10/13/89
TIME: 18:00

Survey Type: Boat, Ground
Team: B. Fitzsimons, M. Ebel

WEATHER AND SEA CONDITIONS

Weather: Sunny
Sea State: Calm

Wind Direction: 0
Knots: 0

Low Tide: 6:42	Feet: 0.22	High Tide: 12:53	Feet: 13.4
Low Tide: 19:10	Feet: -0.9	High Tide: 0:34	Feet: 12.4

SHORELINE DESCRIPTION

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

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

OIL CHARACTERISTICS

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

Max. Oil Thickness: 2 mm (1 = 1 mm or less, 0 = no oil)
Max. Oil Penetration: 8 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%
Presence of Oiled Driftwood (y/n): y
Oil Types: M,SY,T,ST
(P=pooled, M=mousse, SY=sticky, T=tar, A=asphalt, ST=stain)
Samples: EV005-1&2 / EV005-3&4 / none / none

DAMAGED OR OILED ORGANISMS

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

SOLID WASTE FOUND

Type: One Locality
Bags Collected: 0

Draft

Printed: 12/12/89 11:15

ACE 7237606

Walk-a-thon

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

SEGMENT			
CH-00	II	Site 1	Manual pickup of tarmats, rake and bioremediate* H.P. A.
		Site 2	Manual pickup of tarmats, rake and bioremediate* H.P.
EL-57	II		NTR
EL-58	A		Manual till - mop up mobile oil with snare and bioremediate
			- low priority
EL-59	C		Storm berm relocation (mechanical if necessary)
EL-59	C		NTR - Reassessment in '91
EL-59	D		Customblen application and reassessment in '91
ER-07	A	Site 1	NTR
		Site 2	Manual pickup of tarmat and bioremediation (low priority)
EV-05	A		Limited manual pickup followed by bioremediation -
EV-05	II		Customblen (low priority)
EV-12	A		Manual pickup of mousse/AP followed by bioremediation. Manual
			till in heaviest areas if necessary (H.P.)
EV-15	A		Access and remove heaviest concentration of AP/OP/HOR
EV-26	A		manual removal followed by bioremediate
EV-37	A		Manual removal of MS/AP/OP/HOR where accessible -
			bioremediate (H.P.)
EV-39	A		Manual removal of AP and bioremediate (M.P.)
FL-01	A		Manual pickup of OP/HOR sediments (relocate armor to
GR-301	D	Site 1	access)
		Site 2	Bioremediate
		Site 3	NTR - work done
GR-301	II	New Site	Manual pickup of mousse (H.P.)
KN-07	A		NTR
			NTR
KN-08	A		Manual pickup of mousse (H.P.)
KN-201	A		Manual pickup of AP/OP/mousse and bioremediate (H.P.)
KN-211	I	Site 1	both areas
			Manual pickup followed by bioremediation (L.P.)
			Manual removal of AP followed by bioremediation (M.P.)
			Manual pickup of oiled debris at stream mouth next to
			small pool, use chain saw as necessary to access.
		Site 2	NTR
		Site 3	NTR
		Site 4	NTR
KN-400	A	Site 1	Manual removal of accessible AP followed by rake and
			bioremediation (L.P.)
		Site 3	NTR
KN-404	A		Bioremediate and assessment in '91
KN-405	A		Further TAG evaluation - bioremediate and assessment in
			'91
NK-02	A		Manual pickup AP/mousse - bioremediation (M.P.)
PD-04	A		Manual pickup of mousse patties and bioremediation, Inipol
			and Customblen (M.P.)
PN-01	A		Manual pickup of AP and bioremediation (L.P.)

ANADROMOUS STREAM CONSTRAINT

TAG

EXXON

ADEC

USCG

NOAA

DATED

Aug 15 1990

FOSC

DATED

ACE 7237607

02-1550 01-23 FROM ARCTIC SALVOR 10 14-0015012034000

13715

**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: J. GINALIAS (please print)

RE: SEGMENT NUMBER EV-QS SUBSEGMENT NUMBER B

ADEC REP JEFF GINALIAS USCG REP CHRIS VAN PERT

EXXON REP Chris Katsimpalis BOAT NAME/SQUAD NUMBER Arctic Salvor

ODPS: DAVE BELLON VED FREEMAN: ROD REYNOLDS SQUAD # 4

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

1	19 x 6 @ 40%	45	3.5	2
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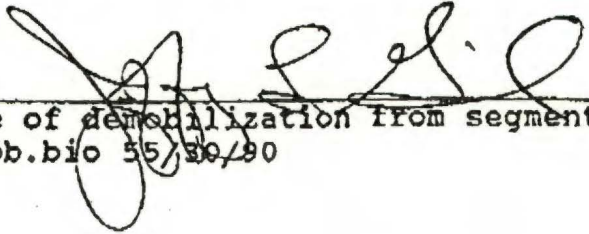
Has work been completed as stated on the work order? If your answer is no please explain in detail how the work performed was different from the work order language.

yes 3rd treatment

Describe the amount of oil remaining (type, size of area and location). Residual O/R in sediments around boulders where manual occurred. Some oil (sporadic) may be under large boulders too big to move. Cleanup in area is complete
5 buckets O/R removed

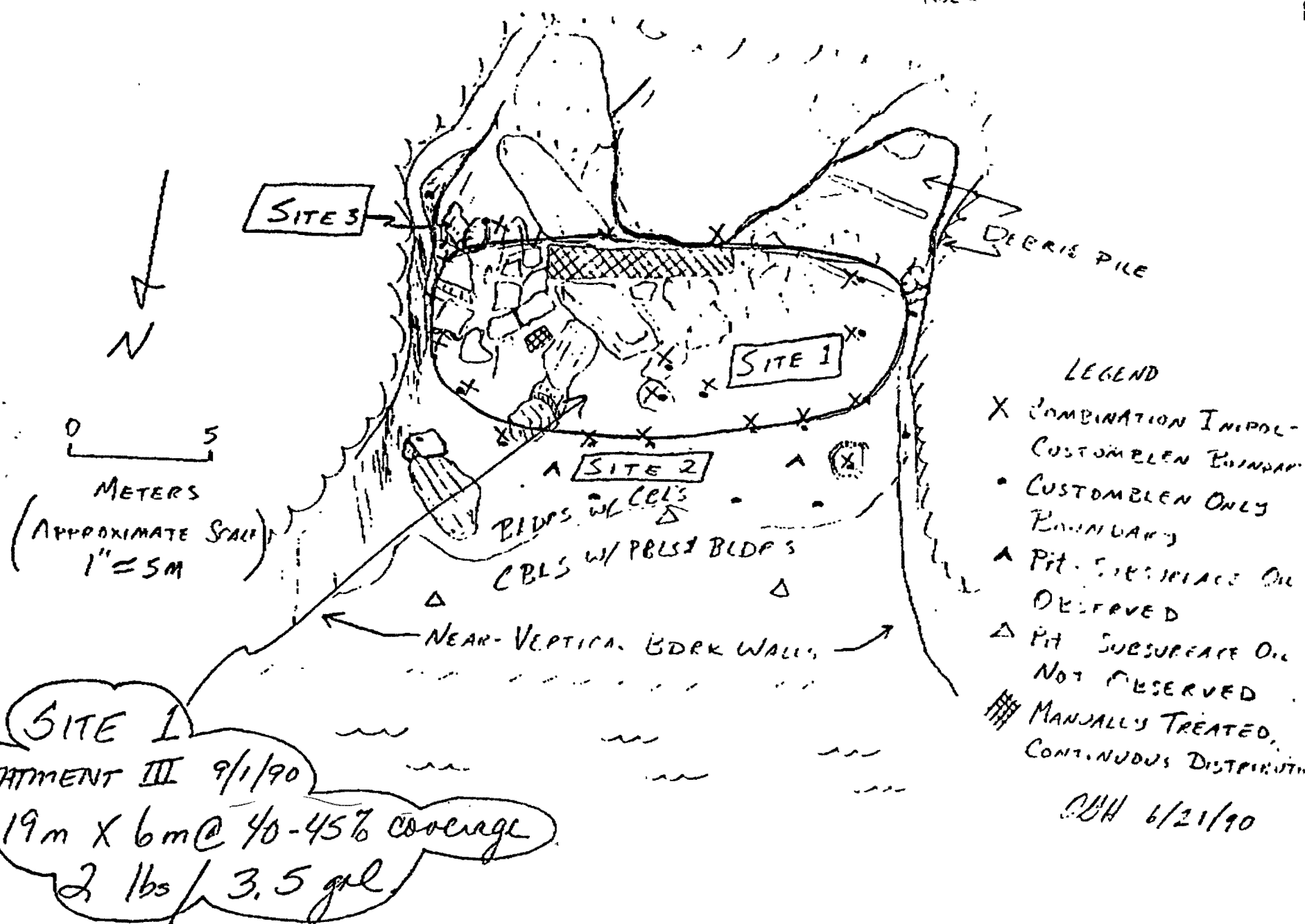
Additional Comments (keep objective)

Large boulders dominated beach. Narrow, sharp incline. Oil was mouse gathered around base of boulders.

signature 

Date and time of demobilization from segment 9.1.90 @ 9:20 a.m.
Shoremon/Demob.bio 55/30/90

BIO REHEAT
 9.1.90
 J. Gualters
 ADKZ



SEGMENT NUMBER: EV-005

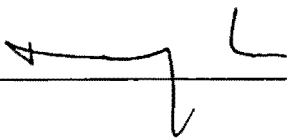
STREAM NUMBER: 226-40-16580

This stream was surveyed during the Pre-ANAD survey by a cooperative effort of ADF&G and Exxon on April 11, 1990. As a result of this pre-survey, the ANAD Fish Stream Team decided NOT to survey the stream, but simply to review the results of the pre-survey. The FIELD SHORELINE COMMENT SHEET was prepared from the review of the pre-survey. Also attached is a copy of the pre-survey for your consideration.

The ANAD Fish Stream Team recommends: NO TREATMENT

TAG Concurrence Date:

ADEC	<u>ART WEINER</u>	<u>Det. Green</u>
EXXON	<u>ANDY TAYLOR</u>	<u>Det. Green</u>
NOAA	<u>Burk Werseth</u>	<u>Det. Green</u>
USCG	<u>MR. J. HALL</u>	<u>Det. Green</u>

FOSC: 

Date: 5-24-90

*Processed
4/25
GPH*

RECEIVED
APR 23 1990

DEPT. OF
ENVIRONMENTAL CONSERVATION

REGION: PRINCE WILLIAM SOUND

SEGMENT: ST/EV-05

SUBDIVISIONS: A (1 OF 3)

Concurrence

ACE 7237615+15

SHORELINE EVALUATION

SEGMENT ST/ EV-05 SUBDIVISION A (1 OF 3) DATE 4/7/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

ADF&G anadromous stream no. 226-40-16575, 16580, 16582, 16577.

5T-2 All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)

6Y Recreation: Special use destination

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

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to uncoiled biota and substrate. 2 eagle nests in EV-05; 1 nest also near border with EV-06, another on or near border with EV-01. No anadromous stream in this subdivision.

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: _____ DATE: _____

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 21 m: V.Light 275 m: No Oil 97 m
Subsurface Oil Observed: Yes X No _____ Maximum Depth 8 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 asphalt removal, 2) manual pick up of oiled debris, 3) bioremediation of areas shown on attached sketch map. Work should be conducted between 6/1 and 7/10 based on eagle nest and salmon constraints after approval of USFWS regarding eagle nest.

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____

EXXON _____

NOAA _____

USCG _____

FOSC: _____ DATE: _____

ACE 7237616

PWS, SEWARD AND HOMER ECOLOGICAL CONSTRAINTS

1A
1B

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

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

No disturbance of stream bed or banks unless authorized by ADF&G. No beach flushing into stream drainage. No bioremediation or other chemical application within 100m of stream. 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 (8/7 to 8/31)

1J

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

1K

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

1L

Set net sites (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
3O, 3Q

Harbor seal and sea lion pupping (5/15 to 7/1)

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 (8/1 to 9/15)

6V

Anchorage (8/1 to 9/15)

6W

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

6X

Lodge (8/1 to 9/15)

6Y

Special use destination

7Z

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

7HH

Finfish harvesting

7II

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-5 SUBDIVISION: A DATE 4/7/90

USCG NOAA

NAME GARY SUGENAKASIGNATURE Gary Sugenaka☐ NO TREATMENT RECOMMENDED☐ TREATMENT SUGGESTED

COMMENTS

SUBDIVISION CONSISTED OF AN APPROXIMATELY 80M POCKET BEACH ALONG THE NORTHWESTERN TIP OF EVANS ISLAND. THE BEACH WAS KNOWN TO HAVE BEEN FAIRLY HEAVILY OILED (THE CVC REP VIEWED IT LAST YEAR DURING CLEANUP OPS) AND SHOWED EVIDENCE OF CONTINUED PRESENCE OF OIL. HOWEVER, THE BEACH HAS APPARENTLY IMPROVED DRAMATICALLY IN APPEARANCE IN THE INTERVENING MONTHS. A ROCK OUTCROP BISECTED THE BEACH; AT THE SOUTH END OF THE BEACH, CHARACTERIZED BY A ROCK FACE, SOME COAT WAS OBSERVED. IN BOULDERS ADJACENT TO THE WALL, A 15 M (WIDE) BY 5 M (LENGTH) PATCH OF COAT AND POOLED OIL UP TO APPROXIMATELY 3 CM IN DEPTH WAS FOUND. CLUSTERS OF MUSSELS, SOME LIVE AND SOME DEAD, WERE FOUND IN THIS ZONE. MUSSELS ALSO EXTENDED INTO THE COBBLE BEACH AREA ADJACENT TO THE BOULDERS, AND THIS SHOWED OILING IN THE FORM OF SHEEN ON THE WATER AS WELL AS SOME COVER ON SURFACE OF COBBLE AND SEDIMENTS. MUSSELS, COVER, AND SHEEN WERE ALSO OBSERVED ON THE ROCK OUTCROP BISECTING THE OVERALL BEACH. IN THE SOUTHERN SUBSECTION SUPRATIDAL OILED VEGETATION AND OTHER DEBRIS WAS FOUND. OILED VEGETATION WAS ALSO FOUND IN THE SUPRATIDAL OF THE BEACH NORTH OF THE OUTCROP AS WELL. STAINS WERE OBSERVED IN OTHER PARTS OF THIS NORTHERN SUBSECTION, BUT HEAVIEST OILING WAS FOUND IN THE SOUTHERN. SNOW COVERED SOME OF THE SUPRATIDAL, BUT IT APPEARED CONTAMINATED VEGETATION AND DEBRIS COULD BE MANUALLY REMOVED.

ADEC

NAME John HoyerSIGNATURE John Hoyer☐ NO TREATMENT RECOMMENDED☒ TREATMENT SUGGESTED

COMMENTS

This sub-segment consisted of two pocket beaches. These beaches were both oiled in, the surface oiling is asphalt patches and a thin weathered oil coat + cover on cobbles + boulders in U1M T.Z's. S.S. oiling was also observed to a depth of 8cm in U1T2 + 5cm in MITZ. (See sketch map)

Manual treatment with a followup for continued flush + HWP is recommended for this segment.

LAND MANAGER

NAME JAMES A BARKERSIGNATURE James A Barker☐ NO TREATMENT RECOMMENDED☒ TREATMENT SUGGESTED

COMMENTS

4/7/90 1600

SSAT OBSERVED WEATHER OIL AT THE SOUTH END OF SEGMENT EVAS SUBDIVISION A WHILE PROCEEDING NORTH. NOTE EV-5, A HISTORY, SUMMER 1989 EV-5, A WAS CONSIDERED MODERATE TO HEAVILY CONTAMINATED. THE CHENEGA BAY OIL RESPONSE TEAM CLEANED EV-5, A USING OIL CONTAINMENT BOOM, ABSORBENT MATERIALS AND HAND SCRAPERS. HAVING WITNESSED CONTAMINATION BEFORE CLEAN UP SUMMER 89, I CAN CONCLUDE THAT WINTER WEATHERING AND WORK EFFORT BY THE CHENEGA BAY RESPONSE CLEAN-UP TEAM MADE A NOTICEABLE AND SIGNIFICANT DIFFERENCE OF OIL REMOVAL AND BEACH DECONTAMINATION. SSAT HAVE DETERMINED THAT CONTINUED HAND CLEANING OF THIS ISOLATED AREA WOULD BE BENEFICIAL & NOT, HIGH PSI WATER AND FLOODING WITH CONTAINMENT BOOM MAY BE HELPFUL AND DESIRABLE AS A CLEANING AID DURING MID TO HIGH TIDES ONLY.

REVISION NO. 0021/90

ACE 7237618

SHORELINE OILING SUMMARY

REVISION NO. 03/22/90

OG Mike Foget NOAA uses Gary Shigamara SEGMENT ST/ EV-S
 BIO Richard Ambrose LAND REP James A. Barker SUBDIVISION A
 EXXON Larry Olson ADEC John Hayes TIME 18:00 to 18:30
 TEAM NO.: 11 TIDE LEVEL: 1.0 to 0.5 DATE 4/7/90
 EST. SUBDIVISION LENGTH: 480 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☐ Forest ☒ Rock ☐ Snow in the Supn ITZ
 SURVEYED FROM: ☒ Foot ☒ Boat ☐ Helo WORKING DIRECTION: S to N
 SURFACE SEDIMENTS: R 40 % B 20 % C 20 % P 10 % G 10 % S 0 % M 0 % V 0 %
 SLOPE: Long 30 % Hang 30 % Vert 40 % WAVE EXPOSURE: ☐ Low ☐ Med ☒ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 45 m VL 25 m NO 360 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR						IMPACTED ZONES			
	R	B	P	S	SP	BR	GL	SL	OR	TL	SU	UI	ME	LI
ASPHALT PAVEMENT			X							X		X		
POOLED														
COVER														
COAT		✓							✓		✓	✓		
STAIN			+						+			+		
MOUSSE														
PATTIES														
TARBALLS														
FILM				✓					✓				✓	
NO OIL														X

PAVEMENT: H F (S) 1 sq. m by 3 cmPATTIES / TARBALLS 0 BAGSNEAR SHORE SHEEN? (NO) BR RW SL TL

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

DEBRIS COLLECTED

☐ YES ☒ NOTYPE Pine Needles#BAGS 0

Photographs:

Roll No. ST-11-2Frames 26

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-OR)	BELOW		OIL / FILM COLOR						PIT ZONE				A N A	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		VO	UC	SP	BR	GL	SL	OR	TL	SU	UI	ME	LI		
1	20					X	-	X								X					P, G, R
2	30					X	-	X								X					P, G
3	20	X					0.8	X				X				X					P, G, R
4	15				X		0.5	X				X					X				C, P, G (H ₂ O at 10cm)
5	15				X		0.3	X				X					X				C, G (H ₂ O at 10cm)
							-														

COMMENTS Subdivision is located in at the southern part of EV-S. The area consists of the rock wall running out to the point and two rock coves. The vertical rock wall running out to the point with the Northern Exposure has a discontinuous 0.5m wide CT/P cover running the length of the wall in the HITZ (approx. 50m) where this band meets the beach in the HITZ there is a 3m x 5m area of heavy oiling in between the crevices in the

Page 1 of

REVIEWED 7/4DATE 4/13/90

ACE 7237619

REVISION 03/29/80

SUBSURFACE OIL (CONTINUED)

[illegible]

COMMENTS

Boulders and cobble. There is also some pooling and asphalt patches up to 3cm in depth. Extended across the beach from this zone is a 1m x 20m CT/S distributed Asphalt patches among the pebble beach. In the MITZ, located in the supra I-Z in this cove and the adjacent pocket cove are some oil coated debris both 1m x 20m in size, some of the oiled storm berms were covered by snow. The MITZ also has some rainbow sheen under the cobble. This subdivision consists of vertical bedrock w/ large boulders and a couple of pocket cobble/pebble bearing

REVIEWED _____ DATE _____

ACE 7237620

00 Mike Foget

SEGMENT ST/ EV-5

SUBDIVISION A

DATE 4/7/90

CHECKLIST

- Name
- Approx. Scale
- Seg/Sub Body
- Oil Dist
- Width
- Length
- % Cover
- Substrate Character
- Est HML/AWL
- SSL
- Profile Location(s)
- Probe(s)
- Pit Location(s)
- Photo Location(s)

LEGEND

1 Δ
Pit - No Subsurface Oil

2 Δ
Pit - Subsurface Oil

CT/C
Continuous Distribution

CT/B
Broken Distribution

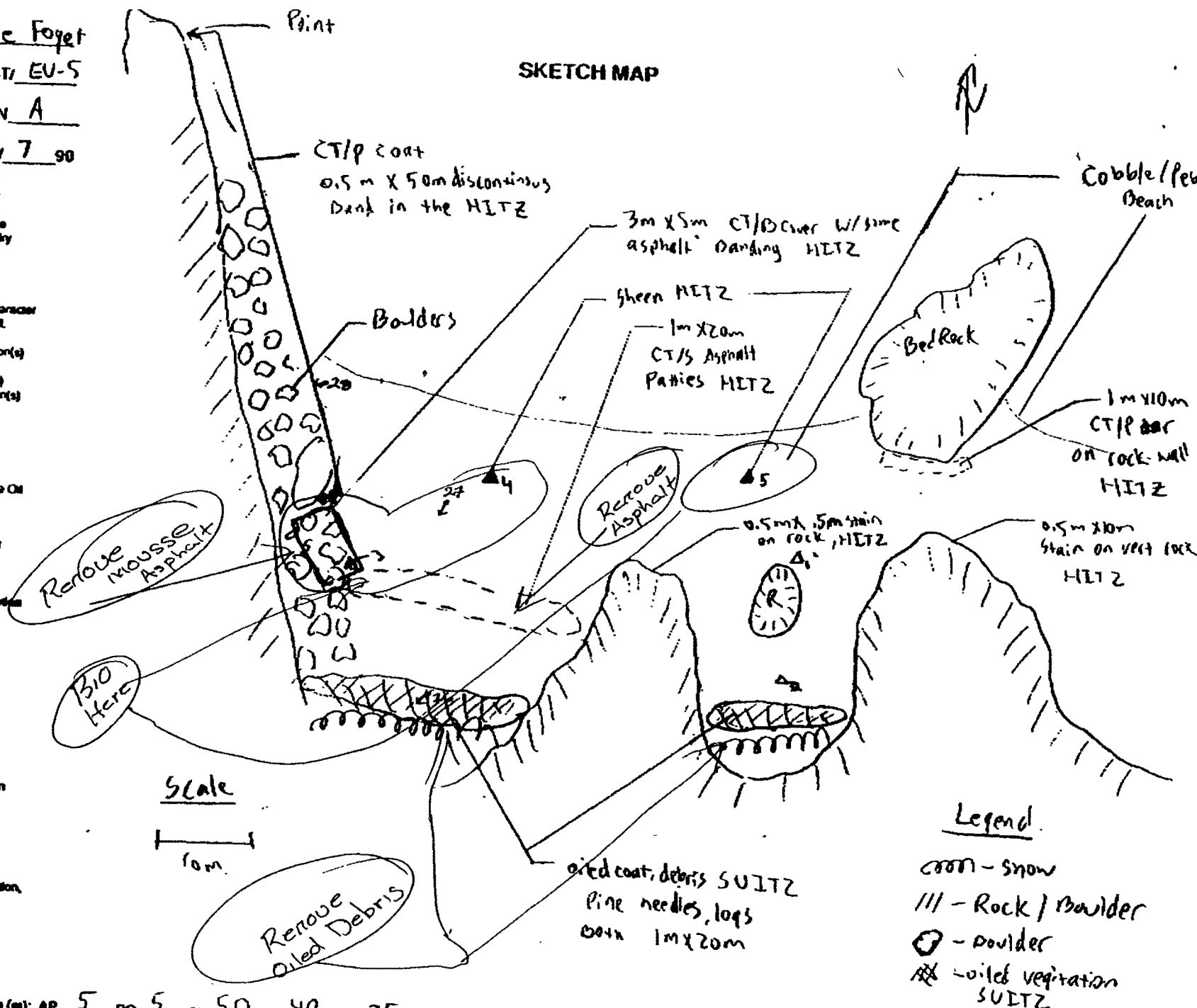
CT/P
Patched Distribution

CT/S
Splashed Distribution

Oil Vegetation

1 →
Photo location, direction, and number

SKETCH MAP



Oil Character Length (m): AP 5 PO 5 CV 50 CT 40 ST 25 MS PT TB FL NO 355

REVISION: 02/24/90

APR-09-1990 20:35 FROM PACIFIC SEAHORSE

TO 01A-0019075643711# P.01

ACE 7237621

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/23/90

Segment ST / EVOOS Subdivision A Date (mo / day / yr) 4 / 7 / 90

Time (24 hr) 1800 hrs Biologist Ambrose

(A) Substrate type and % of segments:
(1) Bedrock 40 (2) Boulder 20 (3) Cobble 20 (4) Pebble 10 (5) Sand 10 (6) Silt -

(B) Overall % cover of biota (% of segment): Dense 25 Moderate 15 Low 60

(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 (O)

Photographs:
Roll No. ST-11-2

Frames 27, 28

BARNACLES

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

MYTILUS

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

GASTROPODS

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

FUCUS

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

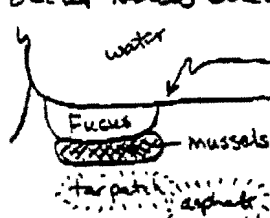
Wildlife Observations/ General Comments: * Mature bald eagle (near nest seen earlier) & deer tracks.
Bedrock walls have moderate to dense cover, with mainly red algae in lower intertidal; pocket cove has areas of Fucus and Mytilus, otherwise sparse to moderate cover.

Ecological Considerations:

711, 67, ST-5: Bald eagle seen near nest.

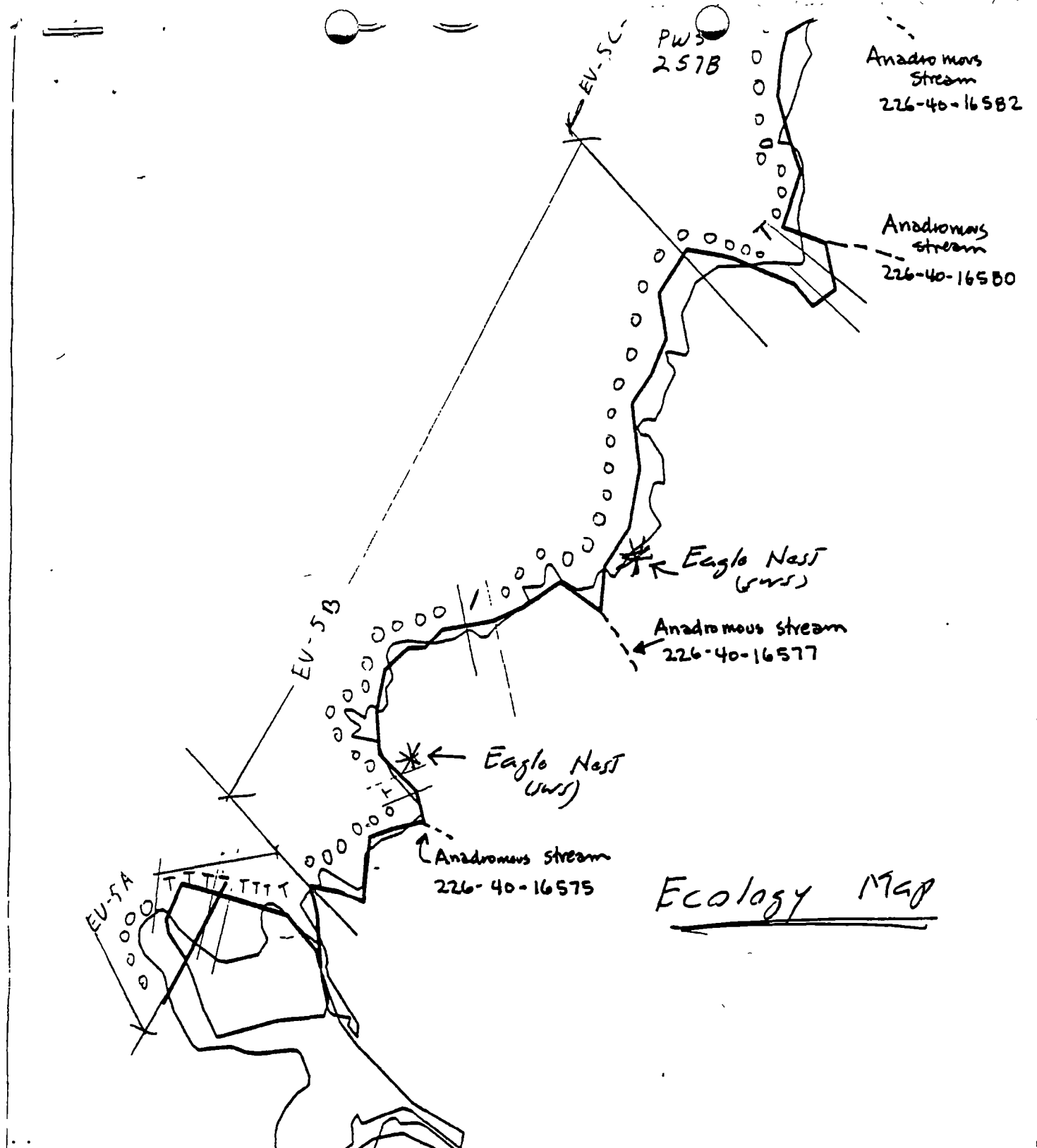
Mussels and Fucus occur below oiled areas in cove:

*Note: part surveyed by boat



Note: rocks in low intertidal are slippery due to filamentous algae.

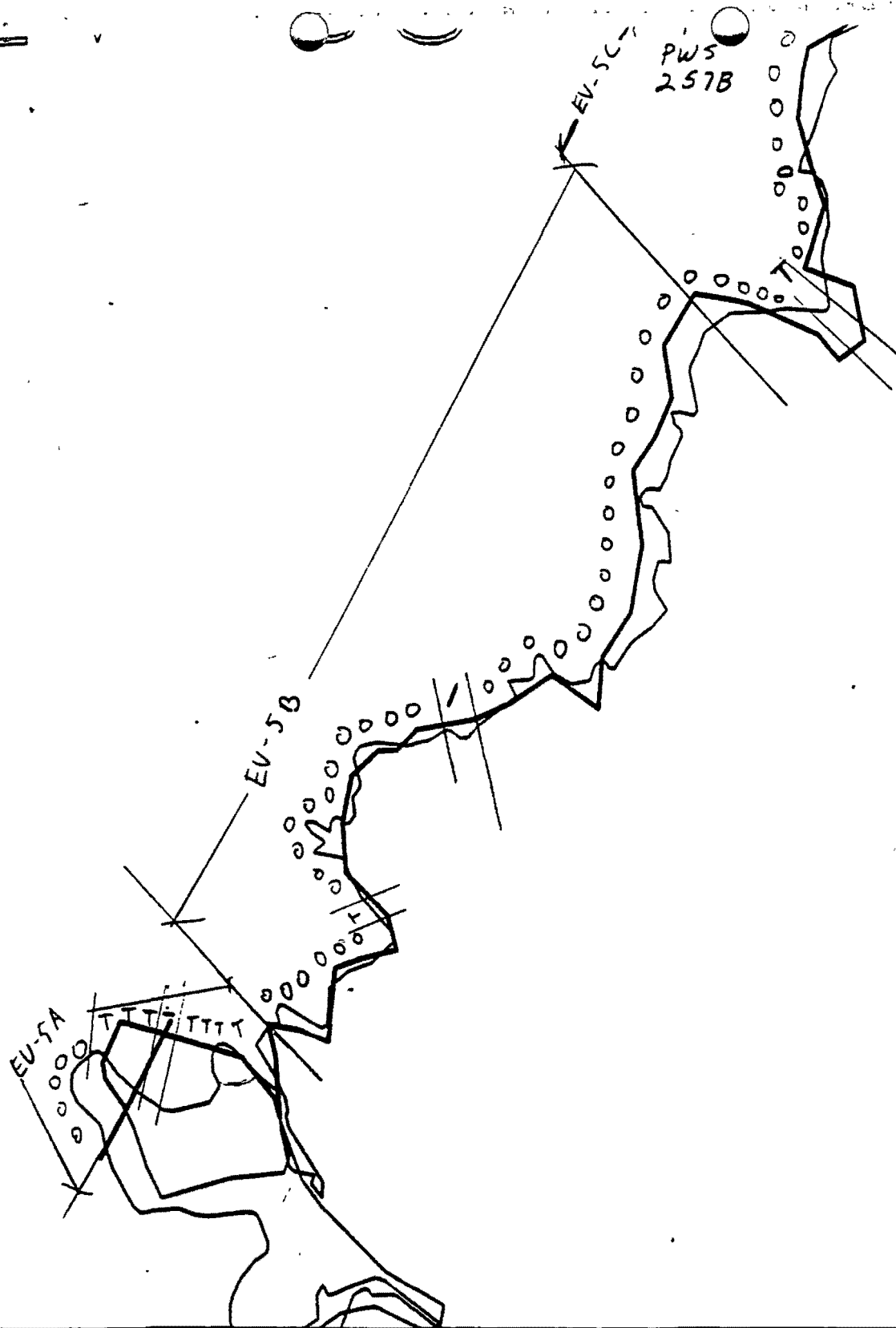
ACE 7237622



Ecology Map

XXXX Wide	EV-5 ADEC Segment Length: 3432m 0 100 200 300 METERS	Map Key: PWS-257a
//// Medium		Name: <u>Mike Fogar</u>
--- Narrow		Date: <u>4/7/90</u>
TTTT Very Light		Data Entered:
0000 No Oil		





XXXX Wide

//// Medium

--- Narrow

TTTT Very Light

0000 No Oil

EV-5

ADEC Segment Length: 3432m



Map Key: PWS-257a

Name: Mike Foster

Date: 4/7/90

Date Entered:

ACE 7237624 -15

*Processed
9/25
RH*

RECEIVED

APR 23 1990

DEPT. OF
ENVIRONMENTAL CONSERVATION

REGION: PRINCE WILLIAM SOUND

SEGMENT: ST/EV-05

SUBDIVISIONS: B (2 OF 3)

*Curator's file -
bio 2.*

ACE 7237625+16

SHORELINE EVALUATION

SEGMENT ST/ EV-05 SUBDIVISION B (2 OF 3) DATE 4/7/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

ADF&G anadromous stream no. 226-40-16575, 16580, 16582, 16577.

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

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

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

6Y Recreation: Special use destination

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

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to unoiled biota and substrate. Two anadromous streams in Subdivision B (226-40-16577, 16575) and 2 bald eagle nests, with one bald eagle nest within 400m in Subdivision A.

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: _____ DATE: _____

OILING CATEGORIZATION:

Wide 0 m: Medium 32 m: Narrow 0 m: V.Light 33 m: No Oil 1107 m
Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

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

COMMENTS: Recommended treatment includes 1) manual removal of pooled mousse and tar patties, 2) manual removal of oiled debris. Work should be conducted after 6/1, with the approval of USFWS regarding eagle nests.

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____

EXXON _____

NOAA _____

USCG _____

FOSC: _____ DATE: _____

ACE 7237626

PWS, SEWARD AND HOMER ECOLOGICAL CONSTRAINTS

1A
1B

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

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

No disturbance of stream bed or banks unless authorized by ADF&G. No beach flushing into stream drainage. No bioremediation or other chemical application within 100m of stream. 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 (8/7 to 8/31)

1J

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

1K

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

1L

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

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

2M

Herring spawning (4/1 to 6/15)

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

3N, 3P
3O, 3Q

Harbor seal and sea lion pupping (5/15 to 7/1)

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

Anchorage (6/1 to 9/15)

6W

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

6X

Lodge (6/1 to 9/15)

6Y

Special use destination

7Z

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

7HH

Finfish harvesting

7II

Deer harvesting (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-5 SUBDIVISION: B DATE 4/7/90

USCG NOAA

NAME GARY SHIGENAKA

SIGNATURE *Gary Shigenaka*

☐ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

COMMENTS

THE SUBDIVISION CONSISTED OF A SECTION OF EVANS ISLAND SHORELINE THAT INCLUDED ROCKY FACES AND OUTCROPS AS WELL AS SMALL BEACHES. A BOULDER BEACH ON THE SOUTHERN END OF THE SUBDIVISION REPRESENTED THE ONLY SIGNIFICANT PORTION SHOWING SIGNS OF OILING. THIS SMALL (APPROXIMATELY 25 M LENGTH) BEACH WAS BORDERED ON BOTH SIDES BY ROCK FACES AND SO WAS A RELATIVELY CONFINED PIECE OF SHORELINE. THE UPPER REACHES OF THE UPPER INTERTIDAL WERE FAIRLY HEAVILY CONTAMINATED WITH A MOUSSY COVER AND POOLED OIL, AND THE SUPRATIDAL CONTAINED OILED VEGETATION AND DEBRIS. A SMALL CAVE EXTENDING FROM THE UPPER INTERTIDAL BACK CONTAINED RELATIVELY UNWEATHERED MOUSSE TO AN UNDETERMINED DEPTH. BIOLOGICAL RESOURCES IN THE LOWER REACHES OF THIS BEACH WERE NOT PARTICULARLY NOTABLE, ALTHOUGH NEW BARNACLE RECRUITS WERE OBSERVED.

THE REMAINDER OF THE SUBDIVISION WAS FREE FROM OILING.

ADEC

NAME John Hayes

SIGNATURE *John Hayes*

☐ NO TREATMENT RECOMMENDED

☒ TREATMENT SUGGESTED

COMMENTS

This ^{sub}segment consists of a # of pocket beaches along shoreline segment EV-5. Oiling was observed in two of those pocket beaches (see sketch map). One of the beaches had surface oiling which consisted of residual stain on ^{angular} cobbles in crevices of bedrock and one soft asphalt patch 5m x 5cm was stained. This beach was weathering and stable. The other pocket beach we observed oiling above the storm berm in the supratidal, the oil was MS and was approx 3-5cm thick. The oil was a more weathered oil combination on angular cobbles and in crevices of boulders on supratidal. The pocket beach is located between two walls of bedrock and is a good site for HHWP treatment. Prior to ~~HHWP~~ ~~HHWP~~ manual cleanup is recommended to remove surface gross contamination. Beach has no abundant colonies of ecological concern (see bio. info.) and is accessible for small work crew.

LAND MANAGER

NAME JAMES A BARKER

SIGNATURE *James A Barker*

☐ NO TREATMENT RECOMMENDED

☒ TREATMENT SUGGESTED

COMMENTS

SSAT DISCOVERED COVE, HIGH BLUFF SIDES, DIAMOND SHAPE, BASE 30m A LOW TIDE MARK RECEDING TO 10m ABOVE HIGH TIDE MARK. THIS SUBDIVISION CONTAINED POCKETS OF WEATHERED OIL BETWEEN POCKETS AND CREVASSES. BEACH UNTOUCHED BY CLEANING. SSAT HAVE DETERMINED THAT HAND CLEANUP WITH ABSORBENT MATERIALS WOULD BE MOST EFFECTIVE ON OIL BOOLES. DUE TO SSB, SHALLOW BED ROCK AND HIGH BLUFF SIDE, HIGH PRESSURE HOT WATER WITH FLOODING AND CONTAINMENT BOOM DURING A MODERATE TIDE WOULD BE THE MOST EFFECTIVE CLEANING AGENT FOR THE REMAINING SEGMENT.

REVISION NO. 03/21/90

ACE 7237628

SHORELINE OILING SUMMARY

REVISION NO. 03/22/90

OG Mike Foget NOAA USGS Gary Shigemata SEGMENT ST/ EV-5
 BIO Richard Ambrose LAND REP James A. Barker SUBDIVISION B
 EXXON Larry Olson ADEC John Hayes TIME 18:30 to 19:30
 TEAM NO.: 11 TIDE LEVEL: 0.5 to 0.9 DATE 4/7/90
 EST. SUBDIVISION LENGTH: 1200 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☒ Rock snow located in the SUPRA IITZ
 SURVEYED FROM: ☒ Foot ☒ Boat ☐ Helo WORKING DIRECTION: S to N
 SURFACE SEDIMENTS: R 40 % B 25 % C 20 % P 10 % G 5 % S 0 % M 0 % V 0 %
 SLOPE: Long 35 % Hang 30 % Vert 35 % WAVE EXPOSURE: ☐ Low ☐ Med ☒ High
 OIL CATEGORY LENGTH: W 0 m M 20 m N 0 m VL 35 m NO 1145 m

SURFACE OIL

CHARACTER	DISTRIBUTION	OIL / FILM COLOR										IMPACTED ZONES			
		R	B	C	P	G	S	M	V	W	VL	SU	U	M	L
ASPHALT PAVEMENT															
POOLED	X					X						X			
COVER	✓					✓						✓	✓		
COAT		X				X						X			
STAIN		X				X						X			
MOUSSE															
PATTIES															
TARBALLS															
FILM					+					+				+	
NO OIL															X

PAVEMENT: H F S 0 sq. m by 0 cmPATTIES / TARBALLS 0 BAGSNEAR SHORE SHEEN? ☒ NO BR RW SL TL

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

DEBRIS COLLECTED

☐ YES ☒ NO

TYPE _____

#BAGS _____

Photographs:

Roll No. ST-11-2Frames 29

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-GM)	BELOW		OIL / FILM COLOR								PIT ZONE				A N A	SUBSURFACE SEDIMENTS	
		OP	OR	OL	OF	NO		UO	UC	10/2	5/1	5/2	5/3	5/4	5/5	5/6	5/7	5/8	SU	VI	MI			LI
1	40					X	.		UC									X						P
2	25					X	.		UC										X					S, C
3	40					X	.		UC									X						P, G
4	25					X	.		UC										X					P
5	15					X	.		UC												X			P, R
							.																	

COMMENTS Most of the oiling in this subdivision occurred in a small V crevas beach which is 30 m at the base. This shore zone is bounded by two rocky vertical walls with large boulders in the supra and H IITZ. (See map 2). There is pooling and oil cover between the crevasses of the boulders and underneath the boulders. This oiling occurred in the supra and H IITZ. The exposed areas of these boulders show no indication of oiling. LB

Page 1 of 2REVIEWED LBDATE 4/11/90

ACE 7237629

SHORELINE OILING SUMMARY (PAGE 2 of 2)

REVISION 03/29/00

SEGMENT ST/ EV-5 SUBDIVISION B

SUBSURFACE OIL (CONTINUED)

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CM)	BELOW		OIL / FILM COLOR								PIT ZONE				A N A	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UO	UC	SL	BR	DR	GR	BL	TR	LR		SU	UI	ME	LI		
							.																
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							.																

COMMENTS

Also Located in the supra ITZ for this area is some oil coated vegetation (pine needles, Loris). Along the western rock wall of this Pocket cave is a 15m x 0.5 m stain in the MITZ.

No oil was observed in the rest of the subsegment with the exception of a total of 10m of staining in the MITZ on some vertical rock walls (see map 1).

REVIEWED _____ DATE _____

ACE 7237630

OG Mike Fogel

SEGMENT ST/ EV-5

SUBDIVISION B

DATE 4, 7 90

CHECKLIST

- ☐ N Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Body
- ☐ Oil Dist
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est INM/LA/WL
- ☐ SSI
- ☐ Photo Location(s)
- ☐ Probe(s)
- ☐ Pst Location(s)
- ☐ Photo Location(s)

LEGEND

1 Δ

Pst - No Subsurface Oil

2 Δ

Pst - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

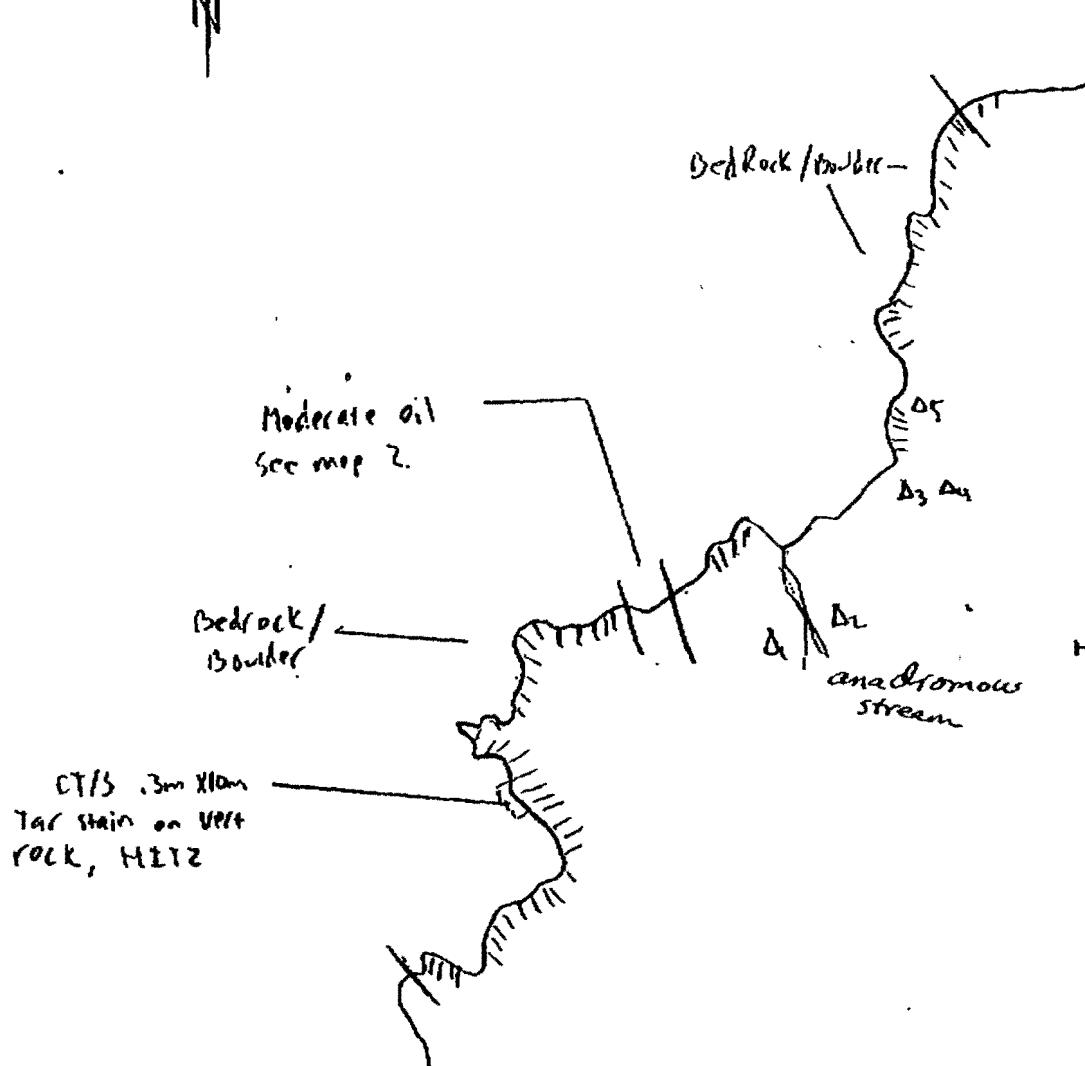
Spotted Distribution

Oiled Vegetation

1 $\bullet \rightarrow$

Photo location, direction,
and number

SKETCH MAP 1



Legend

XXXX - stream
/// - Bedrock/Boulder

Oil Character Length (m): AP - PO 20 CV - CT 10 ST 35 MS - PT - TB - FL - NO 1145

REVISED 12/24/90

P.06

TO 014-0019075643771#

TO

PACIFIC SEAHORSE

FROM

APR-09-1990 20:39

ACE 7237631

OG Nike fogel

SEGMENT ST/ EU-5

SUBDIVISION B

DATE 4 / 7 90

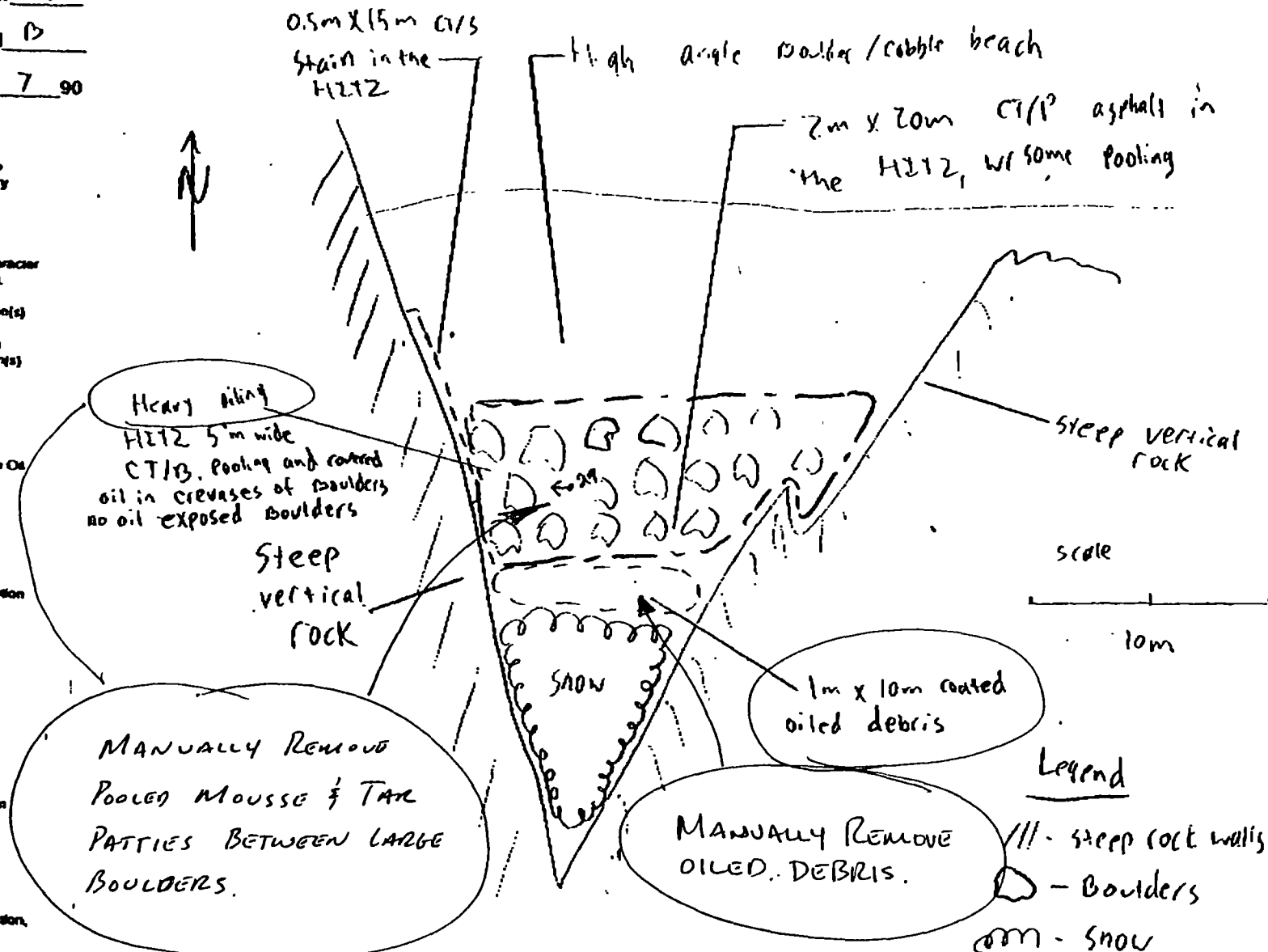
CHECKLIST

- ☐ N Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Entry
- ☐ Oil Dist
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. (MW/L/VN)
- ☐ SST
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ Pt Location(s)
- ☐ Photo Location(s)

LEGEND

- 1 Δ
Pt - No Subsurface Oil
- 2 Δ
Pt - Subsurface Oil
- $\square$ CT/C
Continuous Distribution
- $\square$ CT/B
Broken Distribution
- $\square$ CT/P
Patchy Distribution
- $\square$ CT/S
Splashed Distribution
- $\square$ Oiled Vegetation
- 1 $\Rightarrow$
Photo location, direction, and number

SKETCH MAP 2



see map 1

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

REVISION 43/24/90

TO 01#---0019075643771# P.07

HPR-09-1990 20:40 FROM PACIFIC SEAHORSE

ACE 7237632

SHORELINE ECOLOGICAL SUMMARY

REVISION: 02/22/90

Segment ST / EV005 Subdivision B Date (mo / day / yr) 4 / 7 / 90

Time (24 hr) 1830 hrs Biologist Ambrose

(A) Substrate type and % of segments:
(1) Bedrock 40 (2) Boulder 25 (3) Cobble 20 (4) Pebble 10 (5) Sand 5 (6) Silt -

(B) Overall % cover of biota (% of segment): Dense 15 Moderate 25 Low 60

(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. -
Frames -

BARNACLES

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	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	2	2	2	2	2	2	2	2	2
3	3	3	3	X	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

GASTROPODS

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

NOT PRESENT

FUCUS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	X	2	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	X	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: Eagles (see below), deer (and deer bones), 3 Crows, seal.

Ecological Considerations:

711, 69, 5T-5: 1 mature bald eagle and 1 immature eagle.

One anadromous stream occurs in this subdivision; no oil was noted nearby.

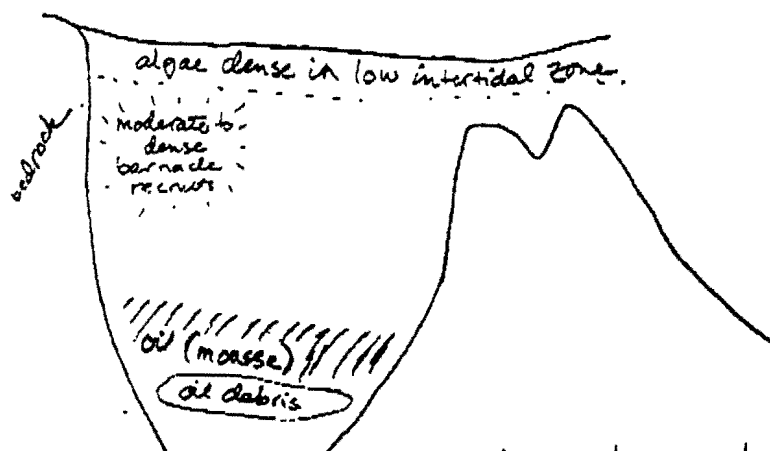
Weathered mousse noted in upper intertidal of one cove (see page 2)

Ambrose

4/7/90

Subdivision EVOOS 15

Oiling on Beach #1 and ecological constraints:



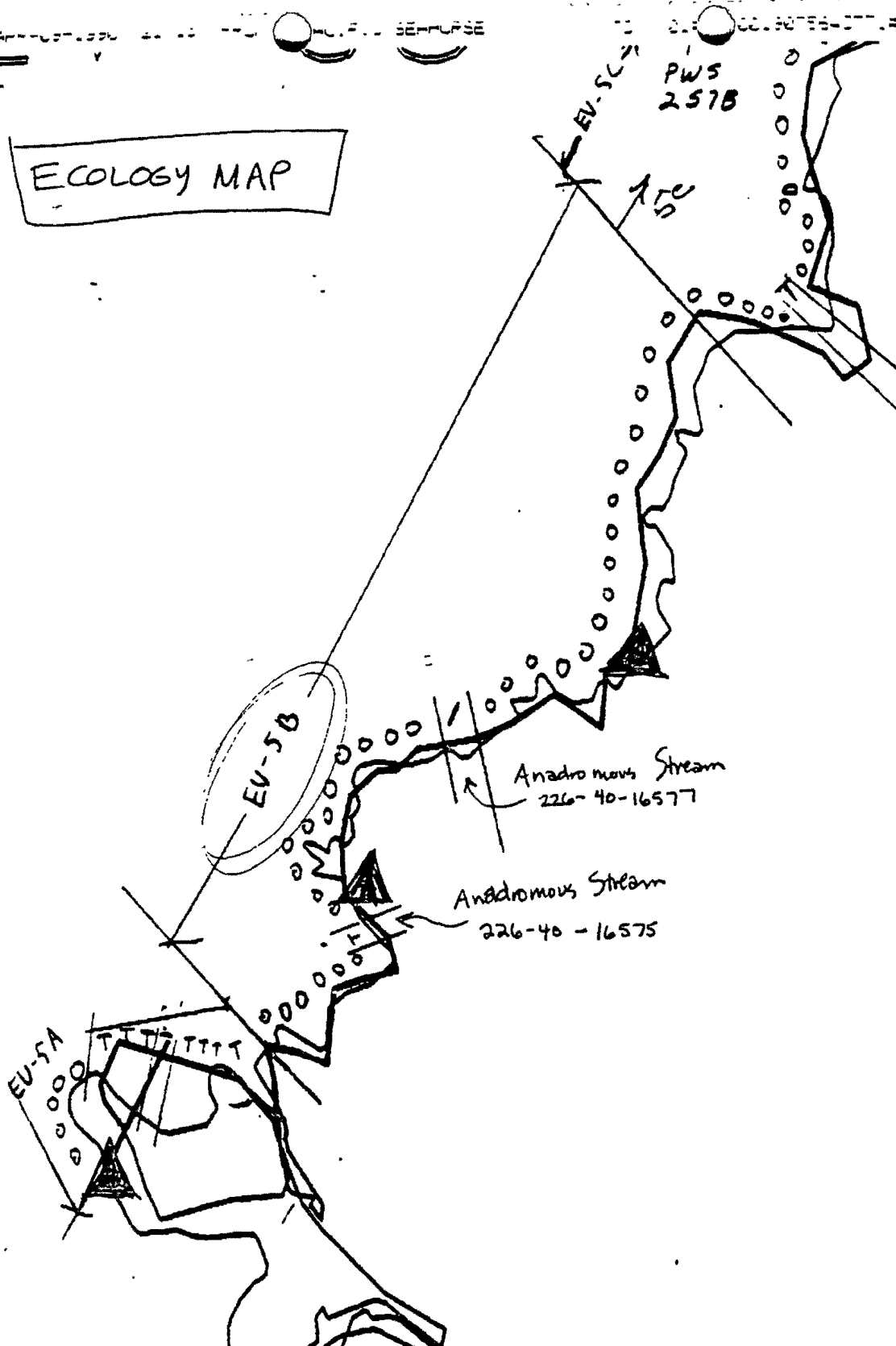
Algae are fairly common in the lower tidal zones: Rhodomele and Enteromorpha occurred in the mid intertidal, Palmaria (or the like) is dense in the low intertidal, and Laminaria is dense in the subtidal.

There is also a good set of barnacles on one side of the cove.

However, the overall biota of the cove is not unusual or rich; in fact, there was virtually no Fucus or Mytilus in the upper intertidal on the beach.

Impacts to the cove from remediation activities could be minimized by working at mid to high tides, but in any case there would not appear to be great to intertidal resources from cleaning this area.

ECOLOGY MAP



XXXX Wide

//// Medium

--- Narrow

TTTT Very Light

0000 No Oil

EV-5C

ADEC Segment Length: 3432m



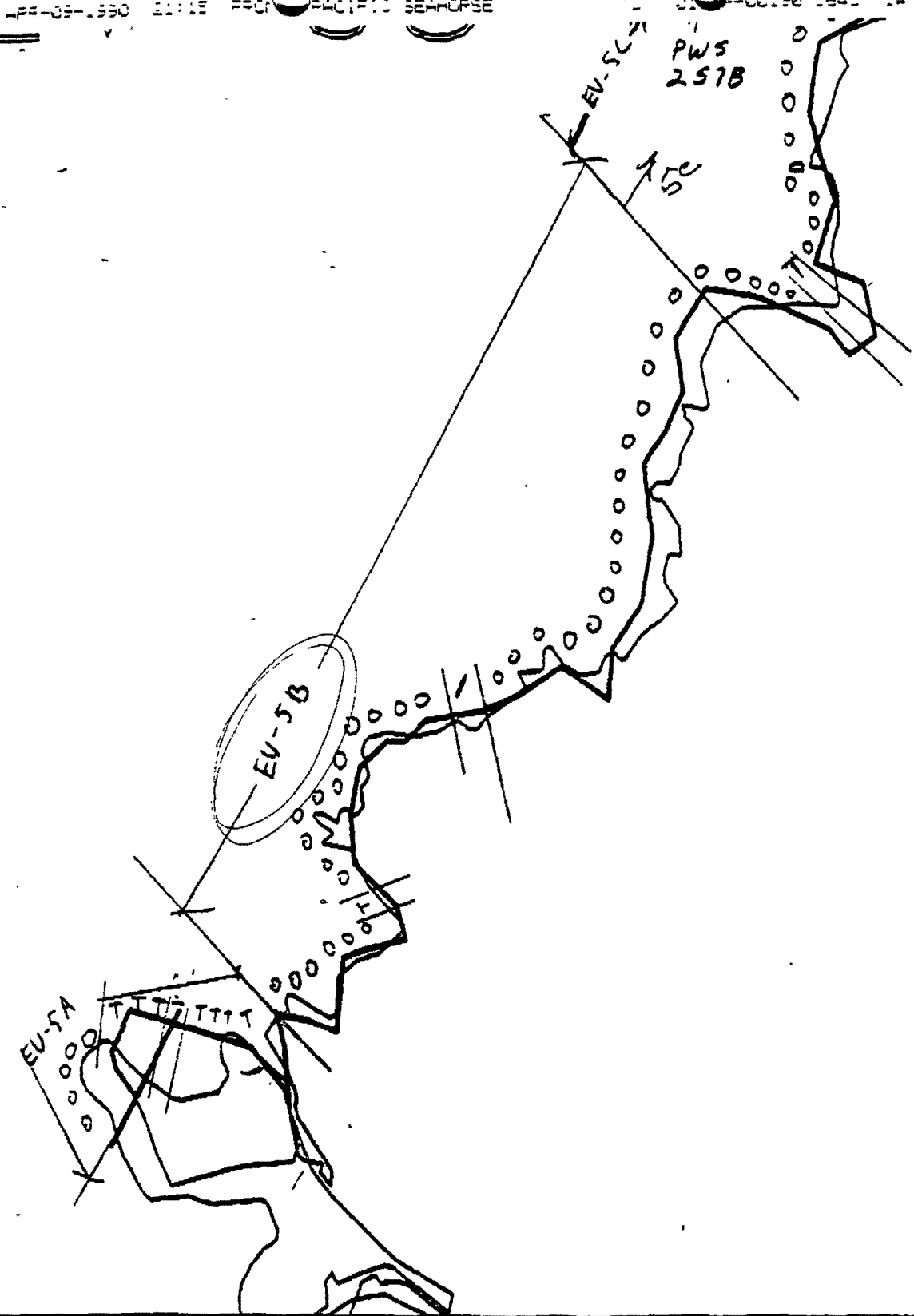
Map Key: PWS-257a

Name: Mike Tozer

Date: 4/7/90

Date Entered:

ACE 7237635



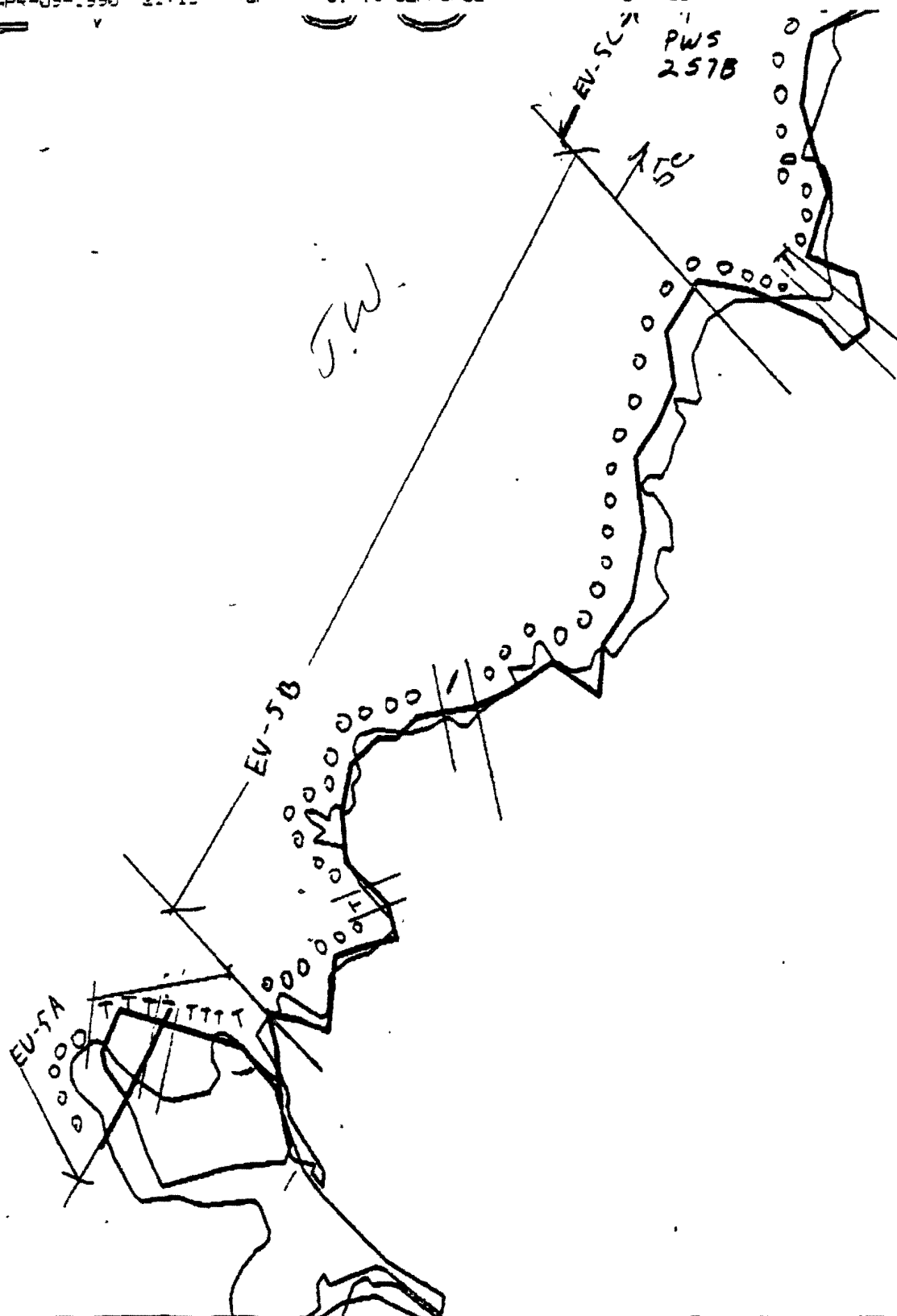
XXXX Wide
/// Medium
--- Narrow
TTTT Very Light
OOOO No Oil

EV-5c

ADEC Segment Length: 3432m



Map Key: PWS-257a
Name: Mike Eger
Date: 4/7/90
Data Entered:



XXXX Wide

//// Medium

----- Narrow

TTTT Very Light

0000 No Oil

EV-5

ADEC Segment Length: 3432m

METERS

Map Key: PWS-257a

Name: Mike Roger

Date: 4/7/90

Date Entered:

ACE 7237637-15

*Processed
4/25^F
RH*

RECEIVED

APR 23 1990

DEPT. OF
ENVIRONMENTAL CONSERVATION

REGION: PRINCE WILLIAM SOUND

SEGMENT: ST/EV-05

SUBDIVISIONS: C (3 OF 3)

Re-up asphalt/pails

ACE 7237638+15

SHORELINE EVALUATION

SEGMENT ST/ EV-05 SUBDIVISION C (3 OF 3) DATE 4/7/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

ADF&G anadromous stream no. 226-40-16575, 16580, 16582, 16577.

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

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

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

6Y Recreation: Special use destination

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

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to unoiled biota and substrate. Two anadromous streams; 226-40-16582 and 226-40-16580 and one eagle nest in Subdivision C, and a second eagle nest within 400m in adjacent Subdivision B.

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: _____ DATE: _____

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 63 m: No Oil 1317 m

Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

X No Treatment Recommended

_____ Treatment Recommended

_____ Manual Pickup

_____ Bioremediation

_____ Tarmat: _____ Removal

_____ Snare/Absorbent Booms

_____ Oil Snares (pom poms)

_____ Absorbents (pads, rolls, etc)

_____ Spot Washing: _____ Wands

_____ Beach Cleaner

_____ Other (see comments)

COMMENTS: _____

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____

EXXON _____

NOAA _____

USCG _____

FOSC: _____ DATE: _____

ACE 7237639

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 3O, 3Q	Harbor seal and sea lion pupping (5/15 to 7/1) 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	Anchorage (6/1 to 9/15)
6W	Forest Service cabins (6/1 to 9/15)
6X	Lodge (6/1 to 9/15)
6Y	Special use destination
7Z	Subsistence area: Salmon harvesting (5/1 to 9/30)
7HH	Finfish harvesting
7II	Deer harvesting (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-5 SUBDIVISION: C DATE 4/7/90

USGG NOAA

NAME GARY SHIGENAGA SIGNATURE Gary Shigenaga

☐ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED

COMMENTS

SUBDIVISION CONSISTED OF A DIVERSE SHORELINE ON THE NORTHERN PART OF EVANS ISLAND. MOST OF THE COASTLINE IN THIS AREA WAS ROCKY, WITH SOME PEBBLE OR COBBLE BEACHES INTERSPERSED ALONG THE LENGTH. THE ONLY SIGNIFICANT EVIDENCE OF OILING WAS OBSERVED AT THE SOUTHERN-MOST COBBLE BEACH OF THE SUBDIVISION, WHERE A BAND OF STAIN AND ASPHALT WERE FOUND ON BOTH SIDES OF AN ANAEROMOUS STREAM. ALTHOUGH SNOW COVERED MOST OF THE SUPRATIDAL, THE LEADING EDGE WAS VISIBLE AND APPEARED TO BE CLEAN. WEATHERED STAIN WAS SEEN IN THE UPPER INTERTIDAL ON THE NORTH SIDE OF THE STREAM. ALTHOUGH EXTENT OF OILING WAS NOT SEVERE UNTO ITSELF, THE PROXIMITY OF THAT OBSERVED TO AN ANAEROMOUS STREAM WAS VIEWED AS A JUSTIFICATION FOR MORE THOROUGH EXAMINATION AT A LATER DATE.

AT A COBBLE-PEBBLE BEACH TO THE NORTH, A 1 M (WIDE) X 10 M (LENGTH) BAND OF TAR PATCHES AND STAIN WAS FOUND ON THE NORTH SIDE OF THE BEACH. AT THIS LOCATION, A PARTIALLY OILED SNARE BOOM WAS RECOVERED.

ADEC

NAME _____ SIGNATURE _____

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED

COMMENTS

Oil in the form of tar patches and stains were observed on this segment. Although beach appears stable a 1 m. tar band extends to stream bank but not onto streambank in UITE (see sketch map). There are also tar patches within close proximity to anaeromous streams. No oil was found in stream bed or along stream banks. Recommend that hood-seat team visit stream area & recommend treatment if needed. The rest of the segment had staining.



SHORELINE OILING SUMMARY

REVISION NO. 03/23/90

OG Mike Foget NOAA Gary Shigemata SEGMENT ST/ EV-05
 BIO Richard Ambrose USGS LAND REP James A Barker SUBDIVISION C
 EXXON Larry Olson ADEC John Hayes TIME 19:30 to 20:30
 TEAM NO: 11 TIDE LEVEL: 0.9 to 2.8 DATE 4/7/90
 EST. SUBDIVISION LENGTH: 1752 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☐ Forest ☐ Rock ☐ Shell in the supra ITZ
 SURVEYED FROM: ☒ Foot ☒ Boat ☐ Helo WORKING DIRECTION: _____ to _____
 SURFACE SEDIMENTS: R 45% B 35% C 10% P 5% G 5% S —% M —% V —%
 SLOPE: Long 20% Hang 40% Vert 40% WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 47 m NO 1700 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	C	B	P	N	SP	BP	OP	BP	OP	BP	OP	BP	SU	U	M	L
ASPHALT PAVEMENT			X		X								X			
POOLED																
COVER																
COAT																
STAIN				✓	✓								✓			
MOUSSE																
PATTIES																
TARBALLS																
FILM																
NO OIL													X	X	X	

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

PATTIES / TARBALLS 0 BAGS

NEAR SHORE SHEEN? (NO) BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris	X		

DEBRIS COLLECTED

☒ YES ☐ NO

TYPE Shore boom

#BAGS _____

Photographs:

Roll No. ST-11-C

Frames 30, 31

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	SP	BP	OP	BP	OP	BP	OP	BP			
1	15					X	-	X										X		P
2	20					X	-	X										X		P
3	25					X	-	X										X		P R
4	20					X	-	X										X		P
							-													
							-													

COMMENTS Diking in this subdivision occurs at the Southern most cove for subdivision C. This is a low angle cobble/pebble beach with two streams. There is a CT/P distribution of asphalt Patties in this area along the HITZ approximately 1m x 27m this band is broken into 3 areas by the Forked Stream. The Patties were manually broken up by the SSAT team. This subdivision also has approximately 25 m of very light CT/S staining in the HITZ (see map)

Page 1 of _____

REVIEWED _____ DATE _____

ACE 7237642

OG Mike Foyot

SEGMENT ST/ EV-5

SUBDIVISION C

DATE 4, 7 90

CHECKLIST

- ☐ M Area
- ☐ Approx. Scale
- ☐ Seg/Sub Body
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. INML/VOL
- ☐ SSI
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ Pt Location(s)
- ☐ Photo Location(s)

LEGEND

1 Δ
Pt - No Subsurface Oil

2 Δ
Pt - Subsurface Oil

$\boxed{\text{CT/C}}$
Continuous Distribution

$\boxed{\text{CT/B}}$
Broken Distribution

$\boxed{\text{CT/P}}$
Patchy Distribution

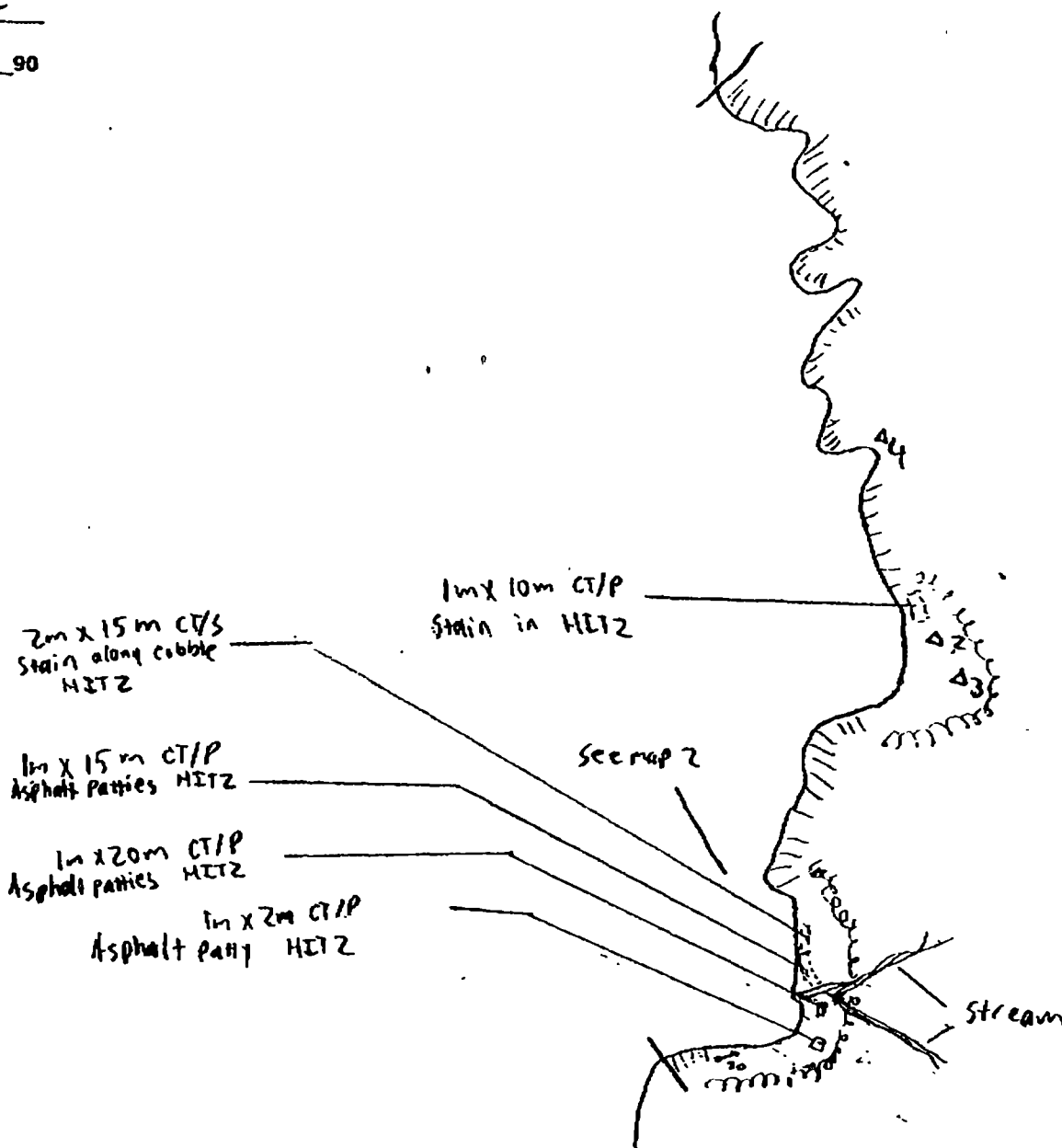
$\boxed{\text{CT/S}}$
Splashed Distribution

Oil on Vegetation

1 $\rightarrow$
Photo location, direction,
and number

SKETCH MAP

Legend
 - stream
/// - Boulder / Rock
--- - snow supra
ITZ



Oil Character Length (m): AP PO CV CT ST 25 MS PT 27 TB FL NO 1700

REVISION 3/24/90

ACE 7237643

HR-03-1000 4.1.17 FRUIT HILL SEMINAR

TO 01-0013075043771R F.02

OG Mike Fogel

SEGMENT ST/ EV-5

SUBDIVISION C

DATE 4 / 7 90

CHECKLIST

- ☐ N Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Bndry
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. Int/L/Vol
- ☐ SSL
- ☐ Photo Location(s)
- ☐ Photo(s)
- ☐ Plot Location(s)
- ☐ Photo Location(s)

LEGEND

1 Δ
Pt - No Subsurface Oil

2 Δ
Pt - Subsurface Oil

CT/C
Continuous Distribution

CT/B
Broken Distribution

CT/P
Patchy Distribution

CT/S
Splashed Distribution

Oiled Vegetation

1 ●

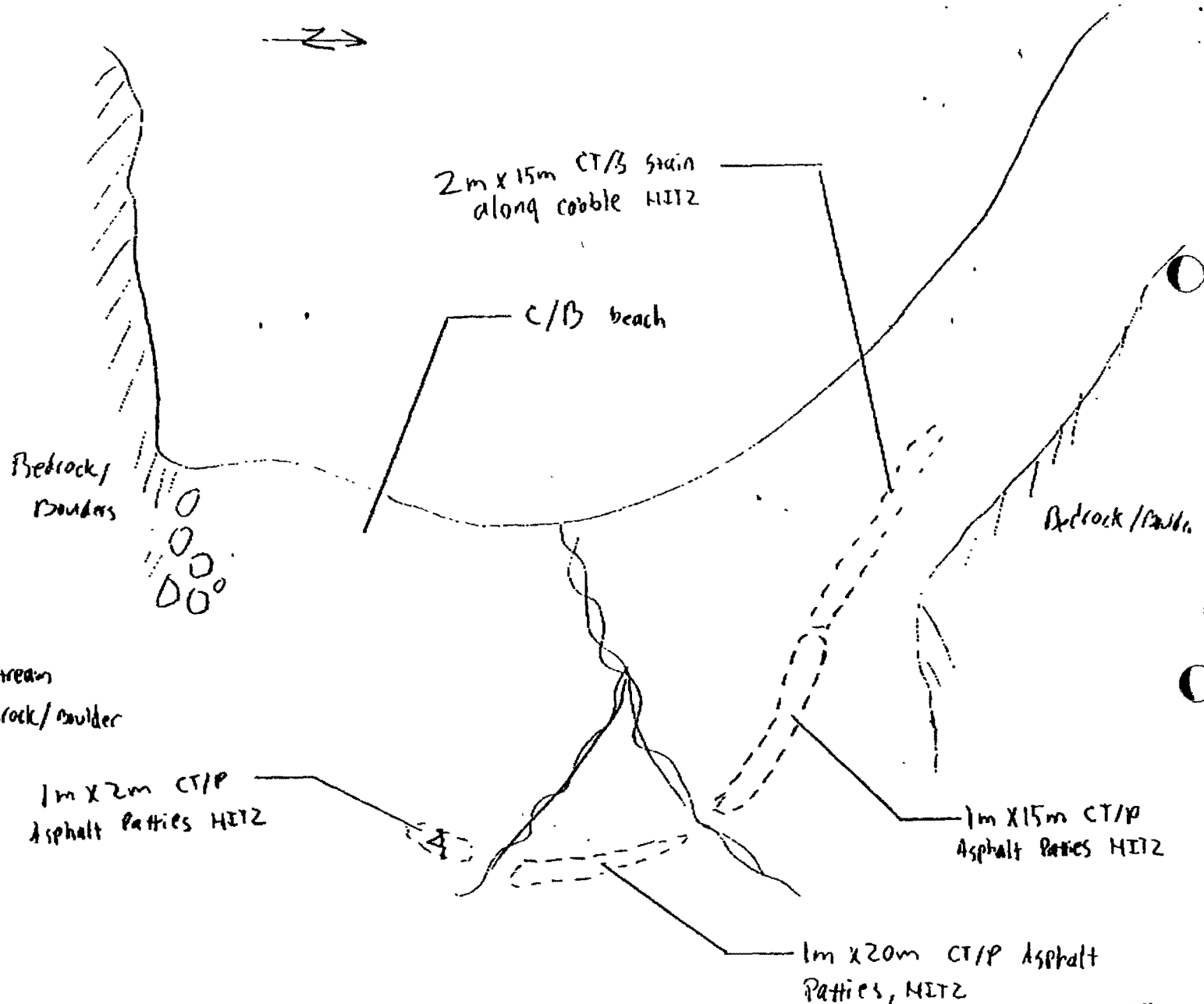
Photo location, direction,
and number

Legend

- stream

- bedrock/coulder

SKETCH MAP 2



see map 1

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

REVISION: 03/24/90

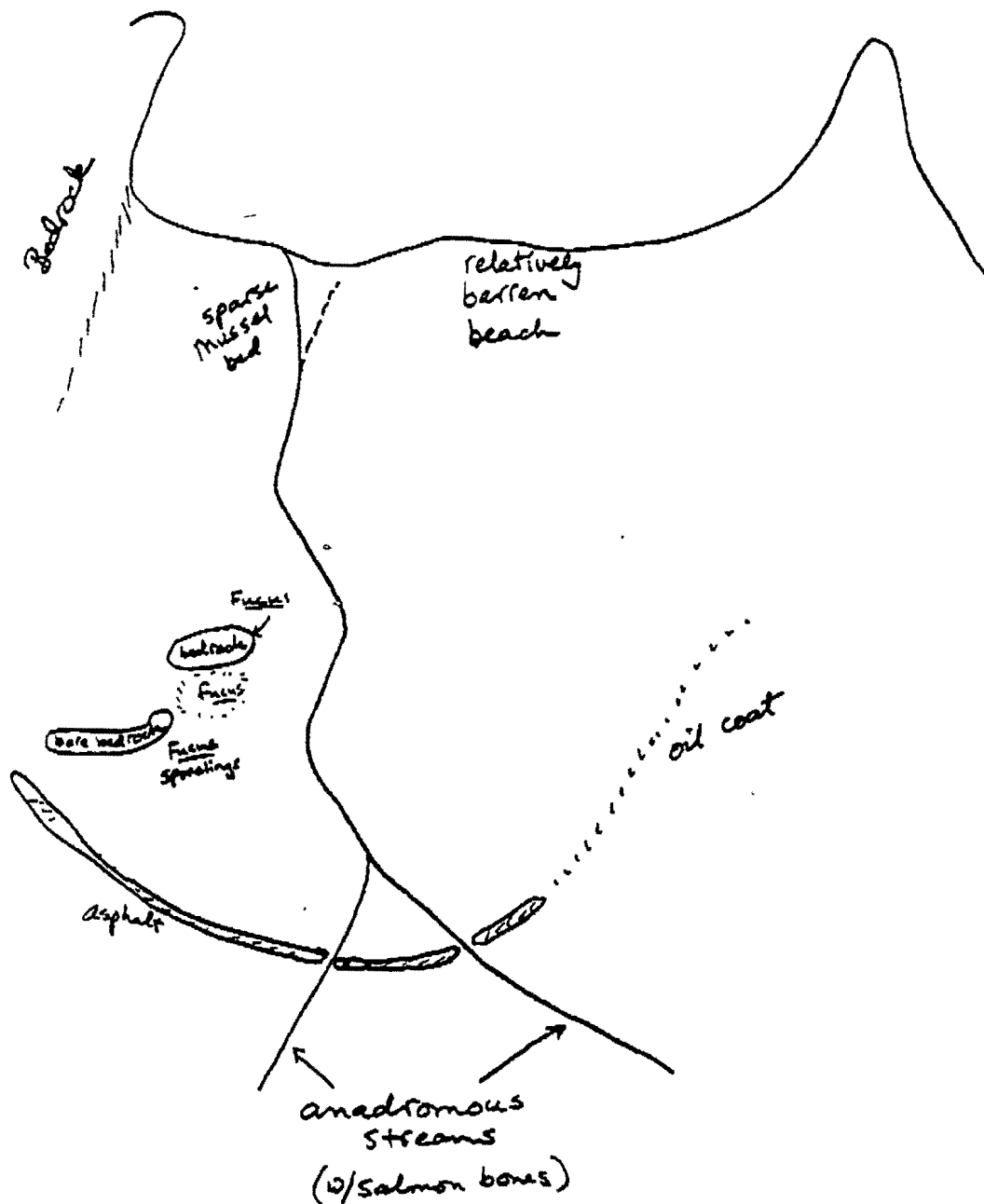
ACE 7237644

Ambrose
4/7/90

Subdivision EVO05C

Bio: page 2 of 2

Sketch of cove with anadromous stream:



SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22/90

Segment ST / EVOOS Subdivision C Date (mo / day / yr) 4/7/90

Time (24 hr) 1930 hrs Biologist Ambrose

(A) Substrate type and % of segments:
(1) Bedrock 45 (2) Boulder 35 (3) Cobble 10 (4) Pebble 5 (5) Sand 5 (6) Silt -

(B) Overall % cover of biota (% of segment): Dense 10 Moderate 25 Low 65

(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. -
Frames -

BARNACLES

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

MYTILUS

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

GASTROPODS

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

FUCUS

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

Wildlife Observations/ General Comments: Eagle (below), 2 deer plus deer bones, 1 otter, otter carcass in supralittoral (no sign of oiling).
Moderate to sparse cover; one anadromous stream (see next page).

Ecological Considerations:

711, 64, 5T-5: One immature eagle seen in tree.

See next page for information on anadromous stream.

EV-U5

ECOLOGY MAP

EV-02

EV-01

EV-05



XXXX Wide

//// Medium

--- Narrow

TTTT Very Light

0000 No Oil

EV-5

ADEC Segment Length: 3432m



Map Key: PWS-297b

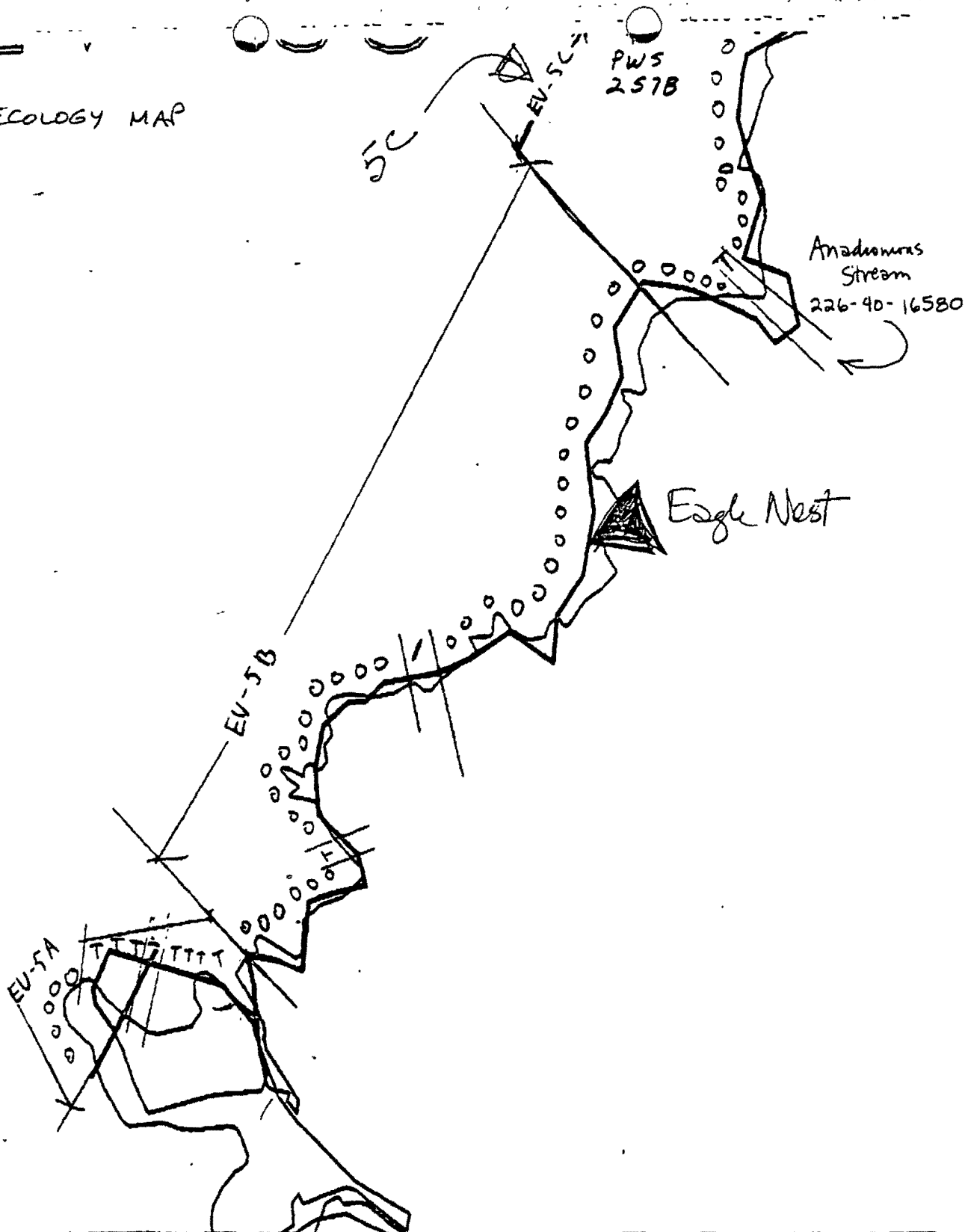
Name: Mike Foster

Date: 4/7/90

Date Entered:

ACE 7237647

ECOLOGY MAP



XXXX Wide

//// Medium

--- Narrow

TTTT Very Light

0000 No Oil

EV-5

ADEC Segment Length: 3432m



Map Key: PWS-257a

Name: Mike Toet

Date: 4/7/90

Date Entered:

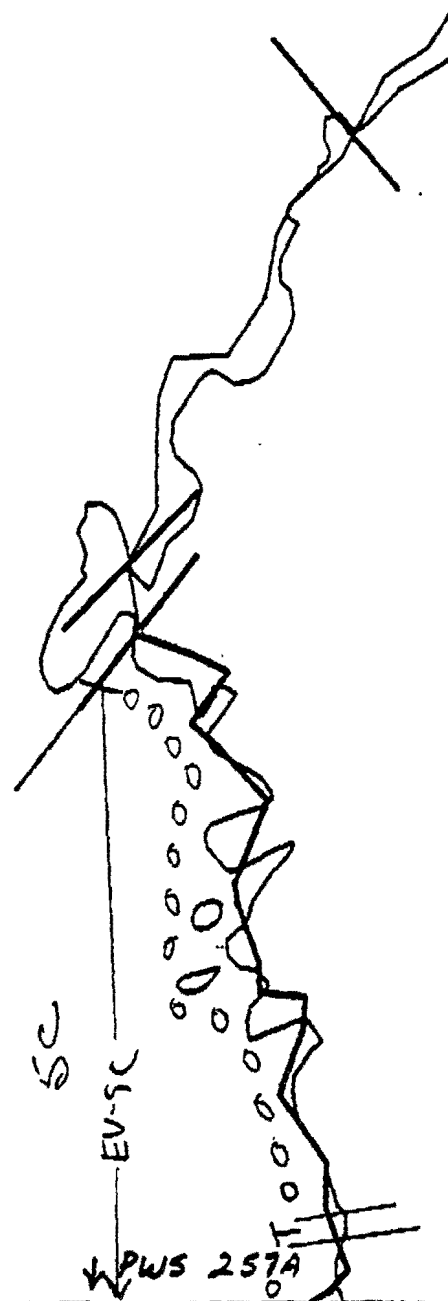
ACE 7237648

EV-03

EV-02

EV-01

EV-05



XXXX Wide

//// Medium

---- Narrow

TTTT Very Light

0000 No Oil

EV-5

ADEC Segment Length: 3432m



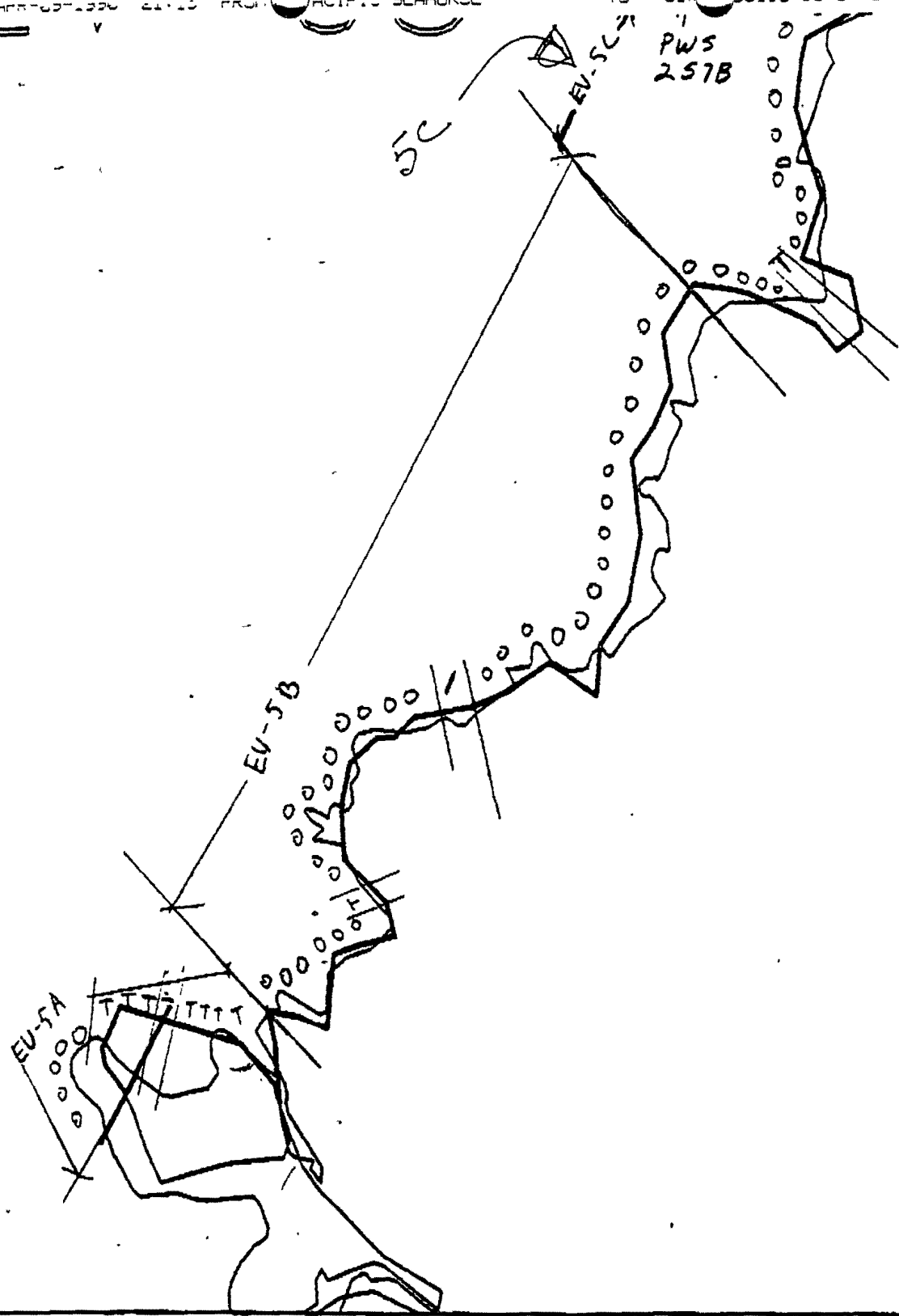
Map Key: PWS-257b

Name: Mike Roger

Date: 4/7/90

Date Entered:

ACE 7237649



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

EV-5

ADEC Segment Length: 3432m



Map Key: PWS-257a

Name: Mike Fager

Date: 4/7/90

Data Entered: