

ER-019~~X~~ ASC: 226-50-16406
South Twin Bay, SW Elrington Island

ACE 1369548



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. Surv.)
____ '90 ASAP Survey ____ ASAP Rec. ____ ADEC Rec. (____)
____ '90 Other Documents _____

AJW
Pre A ADSCAT-90

ADF&G MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS ☒ DS TS AVS SCHM MMS PTA2 REGION: ☒ PWS KP, CI K, APMETHOD: Aerial ☒ Ground Boat

3 DATE: 4/12/90

15 HIGH TIDE TIMES: 1

21 TEAM RECORDER:

4 START TIME: 1109

16 HIGH TIDE HTS: 1

22 OBSERVERS: Tom Crowe

5 STOP TIME: 1118

17 LOW TIDE TIMES: 1

23 AGENCY: ADF&G

6 SEGMENT #: ER019

18 LOW TIDE HTS: 1

24 PHOTOS TAKEN: Y ☒ N

7 STATION #:

19 TIDE HT AT SURVEY:

Roll #: Frame:

8 K-UNIT:

Ebb Slack Flood Slack

25 VIDEO TAKEN: Y ☒ N TAPE#:

9 STAT AREA:

20 USCG QUAD:

Start: End:

10 LAT:

11 LONG:

26 SAMPLES TAKEN? Y ☒ N Number

12 SOURCE: Map Loran

Oil

13 LOCATION: ELRINGTON

Sediment

14 DESCRIPTION:

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 ☒ M H36 CATALOGED ANAD. FISH SKEAM? ☒ N

37 CATALOG #: 226-50-15W 16406

38 STREAM NAME:

31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky ☒ Stain39 OIL IN STREAM BED? ☒ N

40 OIL ON STREAM BANKS? Y N

32 OILED DEBRIS? Y N

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

42 OIL WITHIN 1 MILE OF STREAM? Y N

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

Where:

43 ANADROMOUS FISH PRESENT? Y N

34 WAVE EXPOSURE: High Moderate Low

44 ANADROMOUS FISH OBSERVATION
Species Aerial Ground35 SUBSTRATE TYPE: Bedrock Boulder Cobble ☒
Gravel ☒ Sand Mud/silt

COMMENTS: OIL + STAIN VERY LIGHT

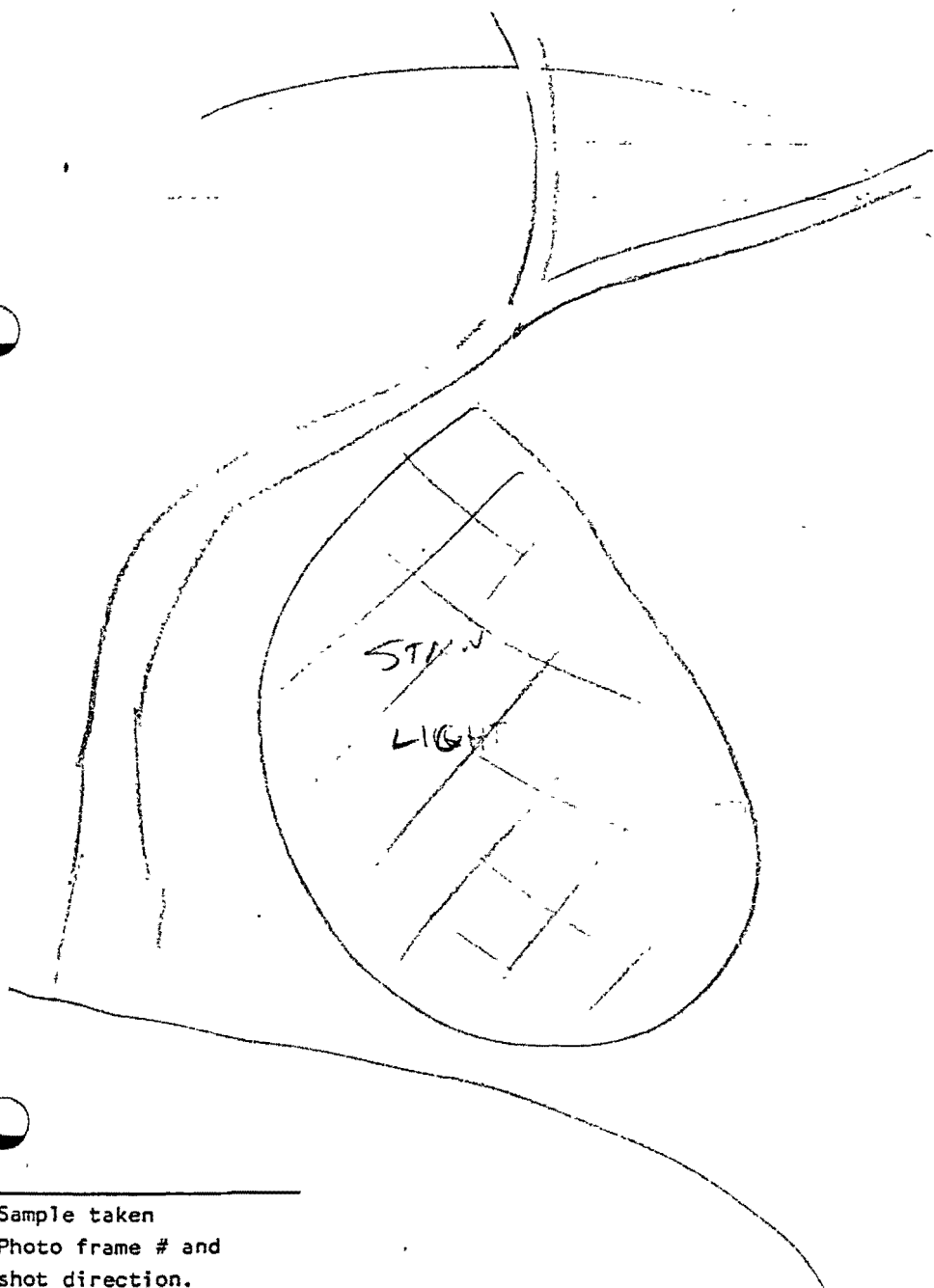
ACE 7237521+1S

FRAME(S)

DESCRIPTION

46 OIL DISTRIBUTION DIAGRAM

PR019 TWC
 286-50-16406
 ASW
 4/12/90



= Sample taken
 = Photo frame # and
 shot direction.

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: 226-50-16406

SURVEY TYPE:

METHOD:

DATE: 4/12/90

START TIME:

STOP TIME:

WAVE EXPOS:

TEAM RECORDER:

OBSERVERS:

AGENCY(IES):

PHOTOS TAKEN?

Roll #:

Frames:

VIDEO TAKEN? Tape Number:

Counter Start:

SAMPLES TAKEN?

SAMPLE I.D. NUMBERS: 1.
4.2.
5.3.
6.

	LENGTH	WIDTH	M2	%	THICK	PEN	OIL TYPE
SITE 1							ST
SITE 2							
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT:

OIL IN STREAM CHANNEL?

SUBSTRATE

Bedrock	Granule
Boulder	Sand
Cobble	Silt
Pebble	Veget.

OIL ON BEACH WITHIN 50M OF STREAM MOUTH?

SPECIES					
COUNT					

COMMENTS:



ANADSCIT-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: 4/21/90 15 HIGH TIDE TIMES: 1109, 2344 21 TEAM RECORDER: M. WIEDMER

4 START TIME: 1315 16 HIGH TIDE HTS: 9.4, 10.3 22 OBSERVERS: J. CROWE

5 STOP TIME: 1342 17 LOW TIDE TIMES: 0512, 1730 23 AGENCY: ADF&G

6 SEGMENT #: ER-019 18 LOW TIDE HTS: 2.9, 1.1 24 PHOTOS TAKEN: Y N

7 STATION #: 226-50-16406 19 TIDE HT AT SURVEY: 7.4' Roll #: _____ Frame: _____

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

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

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

12 SOURCE: Map Loran 011 _____

13 LOCATION: SOUTH TWIN BAY, S.W. ELKINGTON IS. Sediment _____

14 DESCRIPTION: _____ Biological _____

Water _____

EXTENT OF OIL

	SHORELINE				STREAM			
	L	M	H	%	L	M	H	%
27 SURFACE COVERAGE	100	20		<1	100	10		0
28 SURFACE THICKNESS	<0.1 mm	0	0		0	0	0	
29 PENETRATION	<1 mm	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

35 SUBSTRATE TYPE: Bedrock Boulder S Cobble SS
Gravel 30 Sand 30 Mud/silt _____

36 CATALOGED ANAD. FISH STREAM? Y N

37 CATALOG #: 226-50-16406

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

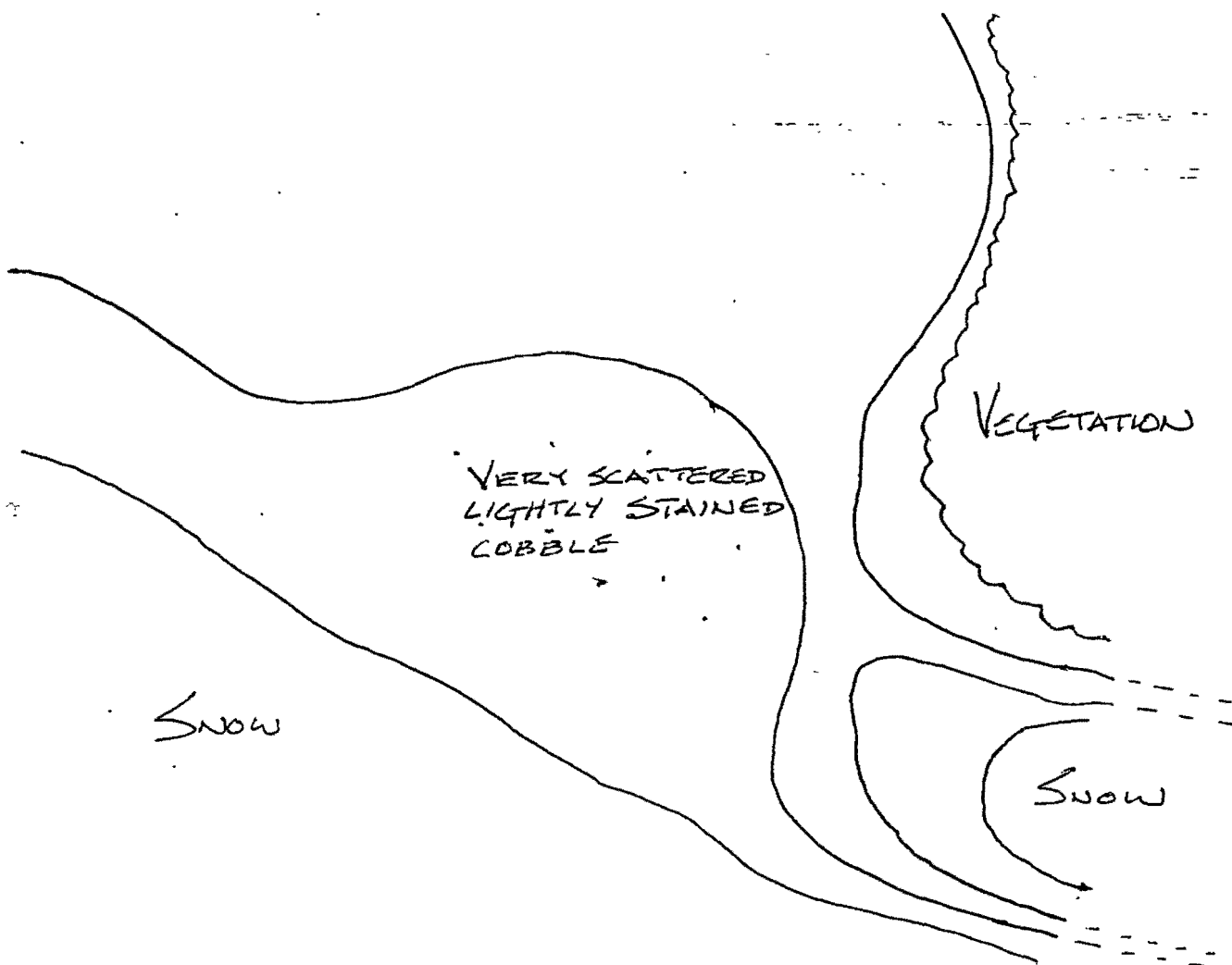
Species	Aerial	Ground

COMMENTS: VERY SCATTERED LIGHTLY STAINED COBBLE IN
MID-INTERTIDAL ZONE. NO TREATMENT RECOMMENDED.

45 PHOTOLOG

Photo (S)	DESCRIPTION

46 OIL DISTRIBUTION DIAGRAM



Sample taken
Photo frame # and
shot direction.

ACE 7237502 -/S

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: 226-50-16406

SURVEY TYPE:

METHOD:

DATE: 4/21/90

START TIME:

STOP TIME:

WAVE EXPOS:

TEAM RECORDER:

OBSERVERS:

AGENCY(IES):

PHOTOS TAKEN?

Roll #:

Frames:

VIDEO TAKEN?

Tape Number:

Counter Start:

SAMPLES TAKEN?

SAMPLE I.D. NUMBERS: 1.

2.

3.

4.

5.

6.

	LENGTH	WIDTH	M2	%	THICK	PEN	OIL TYPE
SITE 1	100	20		1	<.001	<.001	ST
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:

CATALOG NUMBER: 2265016406

STREAM NAME:

LOCATION: ELRINGTON ISLAND, TWIN BAY, SOUTH

SEGMENT NUMBER: ER019 A

SHORELINE TYPE:

DATE: 04/12/90 TIME: BEACH-1118

SITE	WIDTH (m)	LENGTH (m)	AREA (sqm)	PERCENT OIL	THICKNESS (cm)	PENETRATION (cm)	SURFACE SUBSURF	OIL TYPES	COMMENTS
1							SURFACE	ST	west side of stream - light stain

COMMENTS:

OIL & STAIN VERY LIGHT.
WITHIN 1 MILE OF STREAM:

OIL

CATALOG NUMBER: 2265016406

STREAM NAME:

LOCATION: ELRINGTON ISLAND, TWIN BAY, SOUTH

SEGMENT NUMBER: ER019 A

SHORELINE TYPE:

DATE: 04/21/90 TIME: BEACH-1342

SITE	WIDTH (m)	LENGTH (m)	AREA (sqm)	PERCENT OIL	THICKNESS (cm)	PENETRATION (cm)	SURFACE SUBSURF	OIL TYPES	COMMENTS
1	~~2.5~~	~~2.5~~		1-10	~~0.1~~ < 0.1	~~0.5~~	SURFACE	ST	west side of stream - in ITZ - stained cobble

COMMENTS:

VERY SCATTERED LIGHTLY STAINED COBBLE IN MID INTERTIDAL ZONE. NO TREATMENT RECOMMENDED.
OIL ON STREAM BANKS: NO
WITHIN 1 MILE OF STREAM: YES
NOTE: THICKNESS <.01 CM, PENETRATION <.1 CMOIL
DATA ENTRY

CATALOG NUMBER: 2265016406 SEGMENT#: ER019 A LOCATION: ELRINGTON ISLAND, TWIN BAY, SOUTH							
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			ST	LIGHT STAIN ON WEST SIDE OF STREAM.
MAD vs. OG: COMMENTS: OIL AND STAIN VERY LIGHT.							
CATALOG NUMBER: 2265016406 SEGMENT#: ER019 A LOCATION: ELRINGTON ISLAND, TWIN BAY, SOUTH							
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
04/21/90	ANADSCAT	1	SURFACE	1-10	<.01	ST	STAINED COBBLE IN MITZ ON WEST SIDE.
MAD vs. OG: COMMENTS: VERY SCATTERED LIGHTLY STAINED COBBLE IN MID INTERTIDAL ZONE. NO OIL ON STREAM BANKS. NO TREATMENT RECOMMENDED.							
CATALOG NUMBER: 2265016406 SEGMENT#: ER019 A LOCATION: ELRINGTON ISLAND, TWIN BAY, SOUTH							
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
04/21/90	OG'S ANADSCAT	1	50 SURFACE	1-10	<.1	ST	MID INTERTIDAL ZONE - SPLASH DISTRIBUTION OF STAIN.
MAD vs. OG: NO CONFLICTS COMMENTS:							

CATALOG NUMBER: 2265016406 SEGMENT#: ER019 A LOCATION: ELRINGTON ISLAND, TWIN BAY, SOUTH 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			ST	LIGHT STAIN ON WEST SIDE OF STREAM.

MAD vs. OG:
COMMENTS:
OIL AND STAIN VERY LIGHT.

CATALOG NUMBER: 2265016406 SEGMENT#: ER019 A LOCATION: ELRINGTON ISLAND, TWIN BAY, SOUTH SEQ:							
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
04/21/90	ANADSCAT	1	SURFACE	1-10	<.01	ST	STAINED COBBLE IN MIZT ON WEST SIDE.

MAD vs. OG:
COMMENTS:
VERY SCATTERED LIGHTLY STAINED COBBLE IN MID INTERTIDAL ZONE. NO OIL ON STREAM BANKS. NO TREATMENT RECOMMENDED.

CATALOG NUMBER: 2265016406 SEGMENT#: ER019 A LOCATION: ELRINGTON ISLAND, TWIN BAY, SOUTH SEQ:							
DATE	SURVEY	SITE	W x L (m) SITE TYPE	PERCENT OIL	THICKNESS & PENETR. (cm)	OIL TYPES, DEPTH INTERVAL(cm)	SITE SPECIFIC COMMENTS
04/21/90	OG'S ANADSCAT	1	50 SURFACE	1-10	<.1	ST	MID INTERTIDAL ZONE - SPLASH DISTRIBUTION OF STAIN.

MAD vs. OG: NO CONFLICTS
COMMENTS:

ADEC EXXON VALDEZ POST-TREATMENT SURVEY REPORT

SEGMENT#: ER019

DATE: 10/13/89

LOCATION: S.TWIN BAY, ELRINGTON I.

TIME: 17:00

Survey Type: Boat, Ground

Team: B. McCready, P. Montesano

WEATHER AND SEA CONDITIONS

Weather: Sunny, Cloudy
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: 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: B,C,G

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

OIL CHARACTERISTICS

Degree of Oiling: VL

(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: 1 mm (1 = 1 mm or less, 0 = no oil)

Max. Oil Penetration: 0 cm (35 = 35 cm or greater)

Percent Segment Categorized as Oiled: 100%

Presence of Oiled Driftwood (y/n): n

Oil Types: ST

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

Samples: ER019-1 / ER019-2 / 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 11:13

Walk-a-thon

ACE 7237475

Final Anadromous Stream Treatment Information

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

Pre ADSCAT-90 AJW

ADF&G MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS DS TS AVS SCHA MMHS PTA

2 REGION: PWS KP,CI K,AP

METHOD: Aerial Ground Boat

3 DATE: 4/12/90 15 HIGH TIDE TIMES: /

21 TEAM RECORDER:

4 START TIME: 1109 16 HIGH TIDE HTS: /

22 OBSERVERS: TOM CRAWL

5 STOP TIME: 1118 17 LOW TIDE TIMES: /

23 AGENCY: ADFG

6 SEGMENT #: ER019 18 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

13 LOCATION: BURRINGTON

14 DESCRIPTION:

EXTENT OF OIL

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

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

31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain

32 OILED DEBRIS? Y N

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

34 WAVE EXPOSURE: High Moderate Low

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

36 CATALOGED ANAD. FISH STREAM? (Y) N

37 CATALOG #: 20650-ADW 16406

38 STREAM NAME:

39 OIL IN STREAM BED? (Y) N

40 OIL ON STREAM BANKS? Y N

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

42 OIL WITHIN 1 MILE OF STREAM? Y N

Where:

43 ANADROMOUS FISH PRESENT? Y N

44 ANADROMOUS FISH OBSERVATION
Species Aerial Ground

COMMENTS: OIL + STAIN VERY LIGHT

ACE 7237521+1S

FRAME(S)

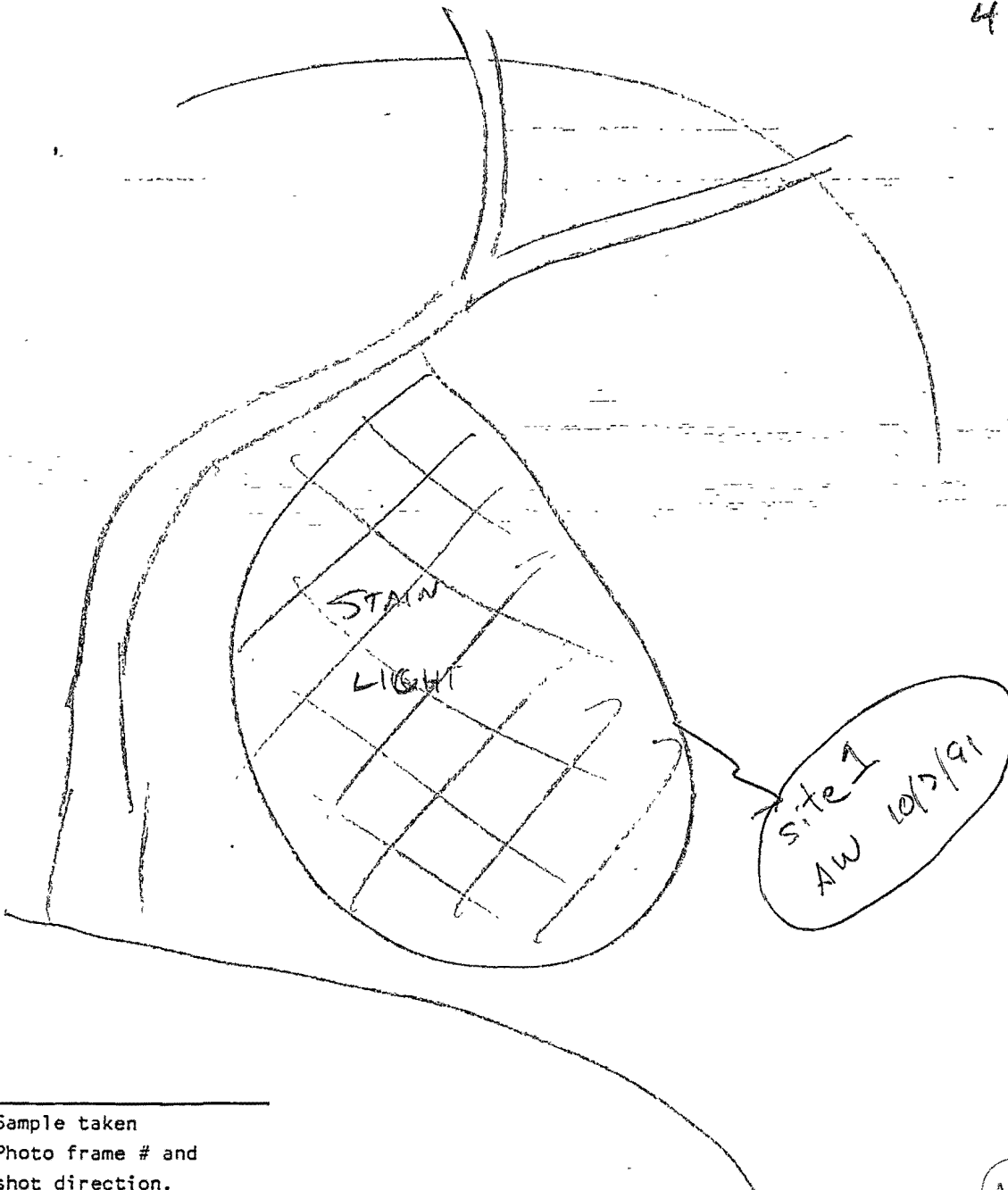
DESCRIPTION

48 OIL DISTRIBUTION DIAGRAM

ER019
286-50-16406
AW

TWC

4/12/90



= Sample taken
= Photo frame # and
shot direction.

ACE 7237522-15

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: 4/21/90 15 HIGH TIDE TIMES: 1109, 2344

21 TEAM RECORDER: M. WIEDMER

4 START TIME: 1315 16 HIGH TIDE HTS: 9.4, 10.3

22 OBSERVERS: T. CROWE

5 STOP TIME: 1342 17 LOW TIDE TIMES: 0512, 1730

23 AGENCY: ADF&G

6 SEGMENT #: ER-019 18 LOW TIDE HTS: 2.9, 1.1

24 PHOTOS TAKEN: Y N

7 STATION #: 226-50-16406 19 TIDE HT AT SURVEY: 7.4'

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: SOUTH TWIN BAY, S.W. ELIZINGTON IS.

Sediment _____

14 DESCRIPTION: _____

Biological _____

Water _____

EXTENT OF OIL

SHORELINE

STREAM

L	W	M ²	%	L	W	M ²	%
100	20		<1	100	10		0

27 SURFACE COVERAGE

36 CATALOGED ANAD. FISH SKEIN? Y N

37 CATALOG #: 226-50-16406

38 STREAM NAME: _____

28 SURFACE THICKNESS

<0.1 mm	0	0	0	0	0
<1 mm	0	0	0	0	0

39 OIL IN STREAM BED? Y N

29 PENETRATION

40 OIL ON STREAM BANKS? Y N

30 OVERALL OIL IMPACT: N VL L M H

41 OIL ON BEACH ADJACENT TO MOUTH? Y N

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
FRY PRESUMED

34 WAVE EXPOSURE: High Moderate Low 35

44 ANADROMOUS FISH OBSERVATION
Species Aerial Ground

35 SUBSTRATE TYPE: Bedrock Boulder 5 Cobble 35

Gravel 30 Sand 30 Mud/silt _____

COMMENTS: VERY SCATTERED LIGHTLY STAINED COBBLE IN
MID-INTERTIDAL ZONE. NO TREATMENT RECOMMENDED.

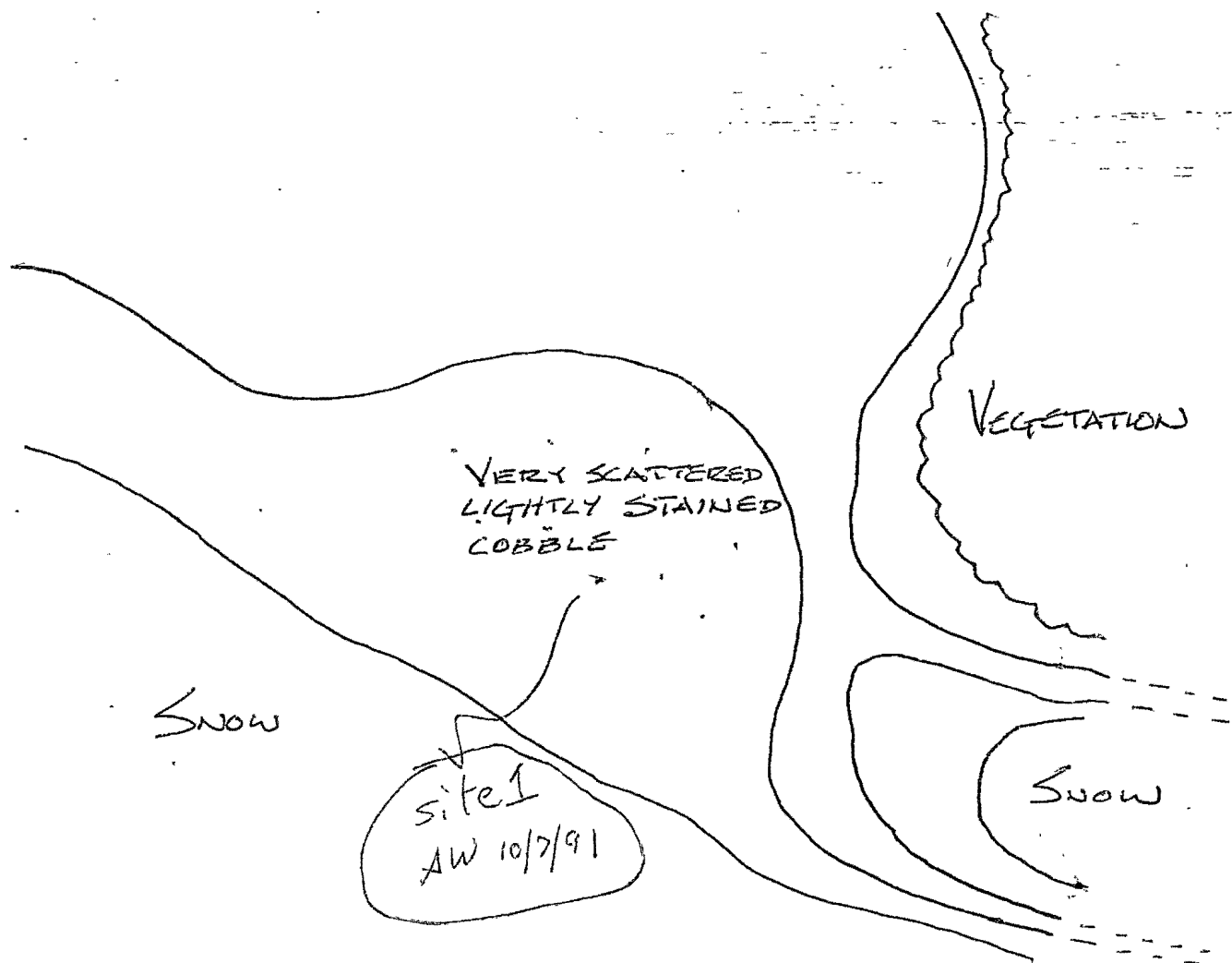
ACE 7237501+15

45 PHOTOLOG

FRAME(S)

DESCRIPTION

46 OIL DISTRIBUTION DIAGRAM



Sample taken
Photo frame # and
shot direction.

ACE 7237502-15

5/52

OPERATIONS FIELD NOTES

See Back for Instructions

SEGMENT ID ANAD-ER-019
STREAM ID # 226-50-16406
ANNOTATED MAP INCLUDED Y(N)

DATE 4-21-90
NAME GARCIA
TEAM # 15

SURFACE OIL	Quantities in Meters			None	Treatment Recommendation					
					Bioremediation		Tilling		Spot Hot Water	
	Length	Width	Area		Y/N	% Treat	Y/N	% Treat	Y/N	% Treat
Wide Band	VERY	LIGHTLY	AND	NONE						
Medium Band	SPORADICALLY STAINED									
Narrow Band	LESS THAN 0.5%									
Very Light										
TOTAL MANDAYS						0		0		0

SUBSURFACE OIL - NONE

Other (Describe)?	

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

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

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

GENERAL
Wave Exposure H/M/L Snow covering 10 % of the Supratidal Zone?
Access Limitations: NONE
Snare Boom/Pom Poms Recommended? NO
Would the production Craft have to be relocated to complete work on this subdivision? Y(N) # of Times N/A

COMMENTS: NO TREATMENT RECOMMENDED FOR THIS STREAM.

ADF&G MULTI-ASSESSMENT DATA FORM

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

2 REGION: PWS KP,CI K,AP

METHOD: Aerial Ground Boat

3 DATE: 4/21/90

15 HIGH TIDE TIMES: 1109, 2344

21 TEAM RECORDER: M. WIEDMER

4 START TIME: 1315

16 HIGH TIDE HTS: 9.4, 10.3

22 OBSERVERS: T. CROWE

5 STOP TIME: 1342

17 LOW TIDE TIMES: 0512, 1730

23 AGENCY: ADF&G

6 SECTENT #: ER-019

18 LOW TIDE HTS: 2.9, 1.1

24 PHOTOS TAKEN: Y (N)

7 STATION #: 226-50-16406

19 TIDE HT AT SURVEY: 7.4'

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: SOUTH TWIN BAY, S.W. ELIZABETH IS.

Sediment _____

14 DESCRIPTION: _____

Biological _____

EXTENT OF OIL

Water _____

	SHORELINE				STREAM			
	L	M	H ²	%	L	M	H ²	%
27 SURFACE COVERAGE	100	20		<1	100	10		0

36 CATALOGED ANAD. FISH STREAM? Y (N)

37 CATALOG #: 226-50-16406

38 STREAM NAME: _____

	L	M	H ²	%	L	M	H ²	%
	L	M	H ²	%	L	M	H ²	%
28 SURFACE THICKNESS	<0.1 mm	0	0		0	0	0	
29 PENETRATION	<1 mm	0	0		0	0	0	

39 OIL IN STREAM BED? Y (N)

40 OIL ON STREAM BANKS? Y (N)

30 OVERALL OIL IMPACT: N VL L M H

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

43 ANADROMOUS FISH PRESENT? Y (N)

Lagoon Marsh

FRY PRESUMED

34 WAVE EXPOSURE: High Moderate Low 35

44 ANADROMOUS FISH OBSERVATION

35 SUBSTRATE TYPE: Bedrock _____ Boulder 5 Cobble 35

Species Aerial Ground

Gravel 30 Sand 30 Mud/silt _____

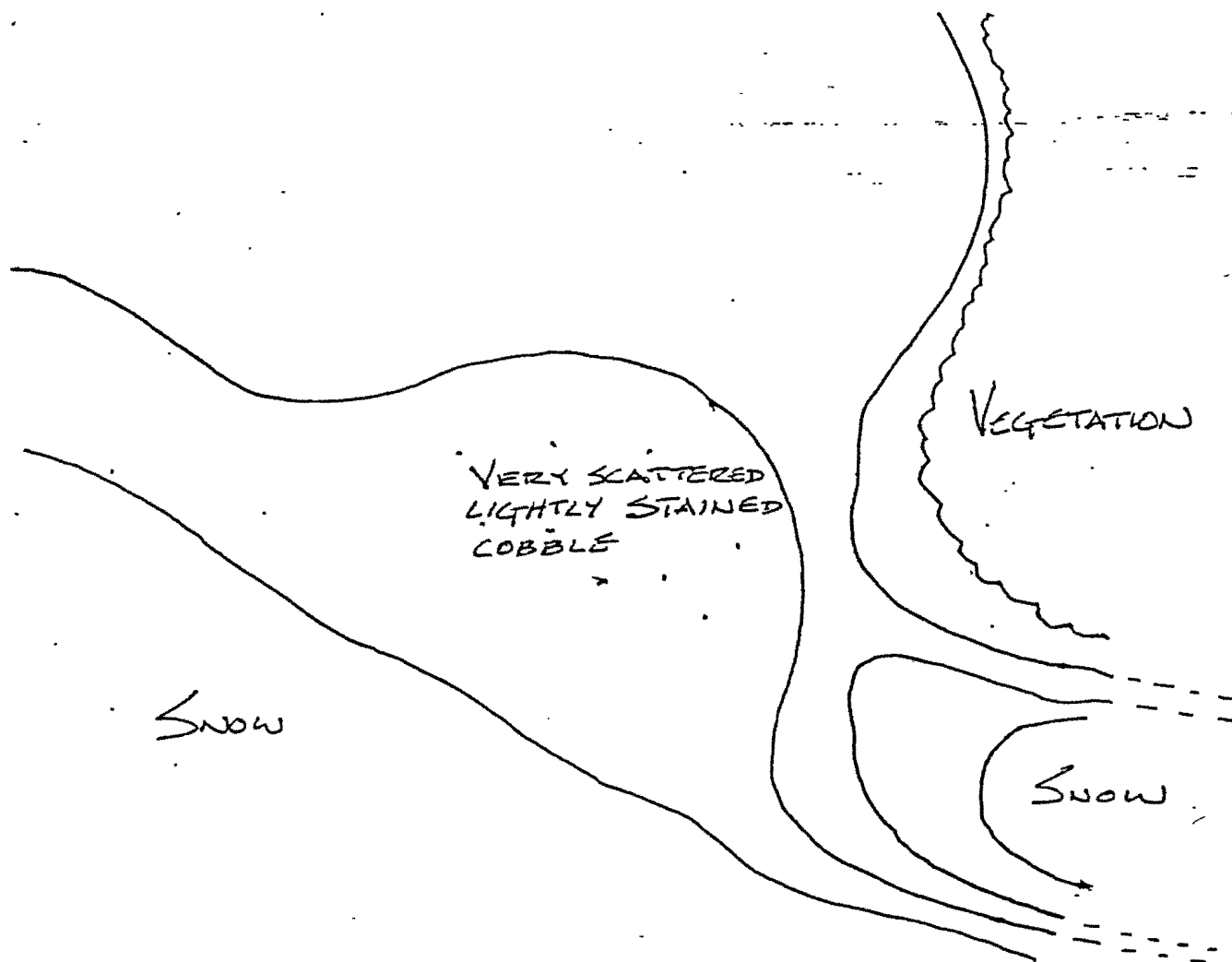
Species	Aerial	Ground

COMMENTS: VERY SCATTERED LIGHTLY STAINED COBBLE IN MID-INTERTIDAL ZONE. NO TREATMENT RECOMMENDED.



FRAME(S)

DESCRIPTION

46 OIL DISTRIBUTION DIAGRAM

OG WILLIAM LEID USCG McMAHON SEGMENT ST/ ER019
 BIO MICHAEL FAWCETT LAND REP TOM CROWE - ADFG STREAM 22650164061 OF 1
 EXXON GUS GARCIA ADFG MIKE WIEDMER TIME 13:19 to 13:45
 TEAM NO. 15 TIDE LEVEL + 6 FT DATE 21 / APR / 90
 EST. SUBDIVISION LENGTH: 100 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R 10 % B 10 % C 10 % P 60 % G 20 % S 10 % M 0 % V 0
 SLOPE: Lang 20 % Hang 80 % Vert 0 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 50 m NO 50 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR					IMPACTED ZONES			
	C	B	P	S	SL PR	DEL RY	GY SL	DRR TL	LR	SU	U	M	L
ASPHALT PAVEMENT													
POOLED													
COVER													
COAT													
STAIN				X		X						X	
MOUSSE													
PATTIES													
TARBALLS													
FILM													
NO OIL													

PAVEMENT H F S 0 sq. m by 0PATTIES / TARBALLS 0 BAGNEAR SHORE SHEEN? (NO) BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

Did you COLLECT DEBRIS
☐ YES ☒ NO

TYPE _____

#BAGS _____

Photographs:

Roll No. AS-15-2Frames 1-4

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM- CM)	BELOW		OIL / FILM COLOR							PIT ZONE				A N A	SHEEN (Y/N)	V	SURFAC SUBSURFA SEDIMEN	
		OP	OR	OL	OF	NO		UO	UC	SR	BR	DR	FW	GY	SL	DR	TL	LR	SU	U					M
1	35					X	.												X				N		G/P/C
2	30					X	.												X				N	25	G/P/C
							.																		
							.																		
							.																		
							.																		
							.																		

COMMENTS

REVIEWED _____ DATE _____

ACE 7237506

SSAT DATA ENTRY FORM

PAGE 1 OF 2

GENERAL DATA

226-50-16406
SEG ID: ER019 ^{STREAM} SUBDIV: TEAM: ALD15 SURVEY DATE: 21 APRIL '90
PAVEMENT: CHAR — AREA 0 THICKNESS 0 TARBALLS 0
OILED: LGS — VEG — TRH — DBR — WAVE EXP: LW — MD X HG —
FAX RCVD: DT: AGENCY DISAGREE:
EST SUBDIV LGTH: 100 OIL CATEGORY: W 0 M 0 N 0 VL 50 NO 50 U

SURFACE DATA

SURFACE SEDIMENT: BRK 0 BLD 0 COB 10 PEB 60 GRN 20 SAN 10 MUD 0 VEG 0CHAR #: 1 OIL CHAR: ST OIL DIST: CONT — BRKN — PTCH — SPLH X
OIL CLR: DBL FILM CLR: — TIDAL ZONE: SU — UI — MI X LI —~~CHAR #: OIL CHAR: OIL DIST: CONT BRKN PTCH SPLH
OIL CLR: FILM CLR: TIDAL ZONE: SU UI MI LI~~~~CHAR #: OIL CHAR: OIL DIST: CONT BRKN PTCH SPLH
OIL CLR: FILM CLR: TIDAL ZONE: SU UI MI LI~~~~CHAR #: OIL CHAR: OIL DIST: CONT BRKN PTCH SPLH
OIL CLR: FILM CLR: TIDAL ZONE: SU UI MI LI~~~~CHAR #: OIL CHAR: OIL DIST: CONT BRKN PTCH SPLH
OIL CLR: FILM CLR: TIDAL ZONE: SU UI MI LI~~~~CHAR #: OIL CHAR: OIL DIST: CONT BRKN PTCH SPLH
OIL CLR: FILM CLR: TIDAL ZONE: SU UI MI LI~~~~CHAR #: OIL CHAR: OIL DIST: CONT BRKN PTCH SPLH
OIL CLR: FILM CLR: TIDAL ZONE: SU UI MI LI~~~~CHAR #: OIL CHAR: OIL DIST: CONT BRKN PTCH SPLH
OIL CLR: FILM CLR: TIDAL ZONE: SU UI MI LI~~

ACE 7237507

SSAT DATA ENTRY FORM

SUBSURFACE DATA

PAGE 2 OF 2SEGMENT ID: ER019 ^{STREAM} SUBDIV: 226-50-16406

PIT # 1 PIT DEPTH 35 OIL CHARACTER NO OIL INTVAL: FROM — TO —
QUANT: — OIL CLR: — FLM CLR: — ZONE: SU — UI — MI X LI —
SUBSURF SEDIMENT: BRK — BLD — COB X PEB X GRN X SAN — MUD — VEG —

PIT # 2 PIT DEPTH 30 OIL CHARACTER NO OIL INTVAL: FROM — TO —
QUANT: — OIL CLR: — FLM CLR: — ZONE: SU — UI — MI X LI —
SUBSURF SEDIMENT: BRK — BLD — COB X PEB X GRN X SAN — MUD — VEG —

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

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

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

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

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

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: —

11/52 OG WILLIAM REID

SEGMENT ST/ E2019

STREAM 226-50-16406

DATE 21 / APR 90

CHECKLIST

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

LEGEND

1 Δ
Pit - No Subsurface Oil

2 Δ
Pit - Subsurface Oil

$\square$ CT/C
Continuous Distribution

$\square$ CT/B
Broken Distribution

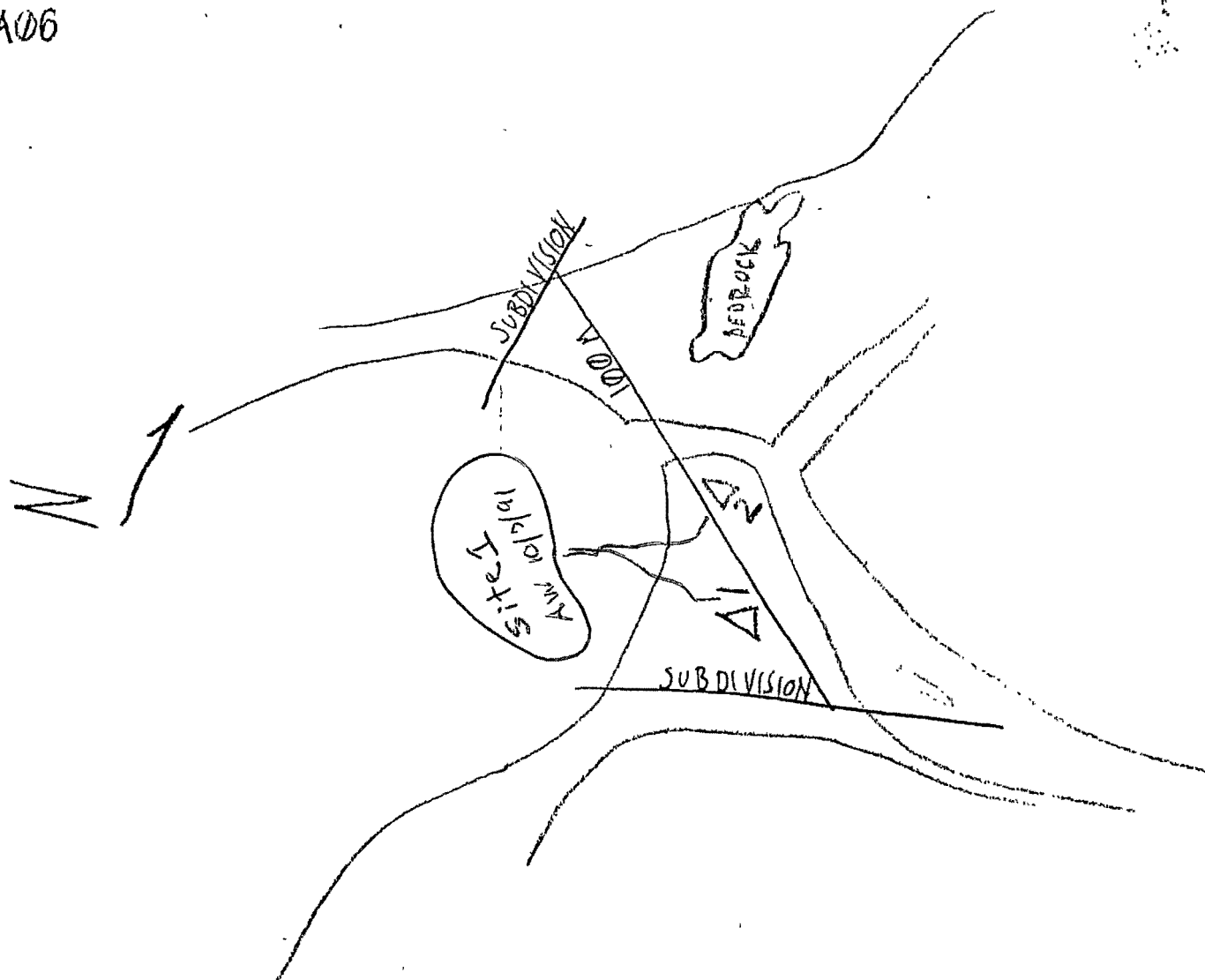
$\square$ CT/P
Patchy Distribution

$\square$ CT/S
Splashed Distribution

$\lll$
Oiled Vegetation

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

SKETCH MAP



ACE 7237509

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

REVISION: 03/24/90

Segment ER 19
Stream 226-40-16406
Ecologist's Summary

4/21/90
Michael Fawcett

This stream lies at the end of a narrow bay, the stream mouth on a cobble/pebble/gravel beach, with larger boulders and scattered bedrock toward the north shore. Dense stands of Fucus and barnacles occupy the larger boulders in MTZ and LTZ. Scattered very light oil stains found in VTZ, no treatment recommended. One harbor seal seen.

M Fawcett

FIELD SHORELINE COMMENT SHEET

13/52

SEGMENT ST 1 ER 019 SUBDIVISION: 16406 DATE 4/21/90

USCG

NAME CWO J. MC MATTON SIGNATURE [Signature]

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

ADFFG
ADEC

NAME Michael WIEDNER SIGNATURE [Signature]

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

LAND MANAGER

NAME No team member SIGNATURE _____

☐ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

Alaska Department of Fish and Game

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

20 April 1990

ASC # 226-40-16785

Segment LA-031 ✓

NT
1
Observations Very light stain on surface armor observed more than 50 yards north of stream. One partially oiled drift log observed on storm berm south of stream. No buried oil observed in test pits. No other visible signs of significant quantities of buried oil.

Treatment Recommendations If future observations do not reveal significant quantities of buried oil, no treatment is recommended.

ASC # 226-40-16788

Segment LA-029

0
1
Observations Scattered stained surface cobbles and boulders found throughout anadromous fish stream zone. One out of four test pits revealed a layer of buried mousse 5 to 10 cm thick underneath 10 cm of clean substrate. Results from other pits indicate that this mousse layer was restricted to a small area.

Treatment Recommendations If future observations do not reveal significant quantities of buried oil, no treatment is recommended.

ASC # 226-40-16776

Segment LA-021

C
1
Observations Stain and some light tar and light mousse scattered through anadromous fish stream zone. No significant quantities of buried oil observed.

Treatment Recommendations If future observations do not reveal significant quantities of buried oil, no treatment is recommended.

2/49

ASC # 226-40-16774

Segment LA-021

Observations A deposit of heavy oil penetrates the substrate immediately adjacent to the upper-mid intertidal portion of the stream. This area has a surface armor of large cobble overlying small gravels. A high tide berm may be advancing over this oil deposit. Tar from this deposit is exposed in the stream channel along the southwest bank and is leaking sheen into the stream. Tarry/moussy oil penetrates the sediment approximately 4 cm at the present stream bank. Oil penetration may be deeper further from the stream.

3 Treatment Recommendations The complete layer of oiled substrate within this deposit should be manually removed, bagged, and taken from the site for safe disposal. Four-wheelers should be used to facilitate removal of material from beach. Excavation should begin on the side of the patch most distant from the stream channel. Clean material from the adjacent berm should be backfilled into the excavated area soon after oiled material is removed. In no circumstances should clean material be deposited over any remaining oiled substrate. Immediately after removal of the oiled substrate adjacent to the stream, boulders from the opposite shore (see ADF&G Multi-Assessment Data Form diagram for general location) should be placed along the bank to prevent migration of the channel into the treated area. All activities must occur between 15 May and 15 July, 1990.

ASC # 226-40-16772

Segment LA-023

Observations Only lightly stained logs in storm berm.

1 Treatment Recommendations If future observations do not reveal significant quantities of buried oil, no treatment is recommended.

Alaska Department of Fish and Game

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

21 April 1990

ASC # 226-50-16406

Segment ER-019

2 | Observations Very scattered, very lightly stained surface cobble along the mid-intertidal zone west of the stream channel. No visible signs of significant quantities of buried oil.

Treatment Recommendations If future observations do not reveal significant quantities of buried oil, no treatment is recommended.

ASC # 226-40-16484

Segment EV-071A

2 | Observations A 1 meter wide asphalt/tar band rings the upper-intertidal zone immediately adjacent to the stream channel. This ring extends 15 meters north and 50 + meters southwest of the stream channel. An armor of lightly oiled large cobbles and boulders covers a heavily oiled 5 cm thick band of small gravels and sands. The oil band abuts both sides of the stream channel.

Treatment Recommendations Manual removal of all oiled substrate smaller than 5 cm. Larger oiled cobbles and boulders should be relocated more than 25 m from stream channel.

ASC # 226-40-16509

Segment EV-070A

f | Observations Sporadic stain, asphalt, tar, and buried mousse are distributed throughout the intertidal zone adjacent to the stream channel. Significant quantities of buried oil not observed.

Alaska Department of Fish and Game
ANADSCAT Observations and Recommendations
Team 15 - Michael Wiedmer and Tom Crowe

21 April 1990

ASC # 226-50-16406

Segment ER-019

2 | Observations Very scattered, very lightly stained surface cobble along the mid-intertidal zone west of the stream channel. No visible signs of significant quantities of buried oil.

Treatment Recommendations If future observations do not reveal significant quantities of buried oil, no treatment is recommended.

ASC # 226-40-16484

Segment EV-071A

2 | Observations A 1 meter wide asphalt/tar band rings the upper-intertidal zone immediately adjacent to the stream channel. This ring extends 15 meters north and 50 + meters southwest of the stream channel. An armor of lightly oiled large cobbles and boulders covers a heavily oiled 5 cm thick band of small gravels and sands. The oil band abuts both sides of the stream channel.

Treatment Recommendations Manual removal of all oiled substrate smaller than 5 cm. Larger oiled cobbles and boulders should be relocated more than 25 m from stream channel.

ASC # 226-40-16509

Segment EV-070A

f | Observations Sporadic stain, asphalt, tar, and buried mousse are distributed throughout the intertidal zone adjacent to the stream channel. Significant quantities of buried oil not observed.

Treatment Recommendations The observed quantity of oil and its distribution relative to the stream channel do not appear to place salmon or other organisms at serious risk. If future observations do not reveal significant quantities of buried oil, no treatment is recommended.

ASC # 226-40-16630

Segment EV-017

Observations A large, gently sloping intertidal zone surrounds the outlet of this braided stream channel. Except for the upper intertidal, surface substrates are cobbles, gravels, and sands over sands and muds. Along the upper-intertidal, boulders and large cobbles overlay gravels.

3 Oil saturated (tarry) patches of gravels, sands, and muds occur widely throughout the upper- and mid-intertidal zones. In all zones, the majority of larger materials surrounding and overlying the oiled fine-grained sediments are relatively clean.

Oil saturated (to 5 cm) fine-grained sediments in the mid-intertidal zone are breached by the stream channel. Undisturbed sediments at this site bleed sheen into the channel.

Large tar mats (to 10 cm) occur through the upper-intertidal zone primarily to the east of the channel. These tar mats saturate gravels and sands and are covered by large cobbles and boulders.

Treatment Recommendations Tar mats, particularly those in the mid-intertidal zone adjacent to the stream channel, should be manually removed, bagged, and taken from the beach for safe disposal. Only materials smaller than 5 cm should be removed. Larger materials can be left on site. Four-wheelers should be used to facilitate removal of material from beach. In the mid-intertidal zone, excavation should begin on the side of the patch most distant from the stream channel. Immediately after removal of the oiled substrate adjacent to the stream, cobbles and boulders should be placed along the bank to prevent migration of the channel into the treated area. All activities must occur between 15 May and 15 July, 1990.

ASC # 226-40-16620

Segment EV-017

2 Observations An upper-intertidal band of tar mats (to at least 4 cm.) extends along the east side of the channel. At this location, relatively clean boulders and large cobbles are interspersed through and on the oiled finer grained sediments.

Along the mid-intertidal portion on the west side of the channel are scattered lightly stained cobbles and boulders. No buried oil was observed within 50 meters of the stream to the west, but a pit approximately 80 meters from the channel revealed subsurface tar.

Treatment Recommendations Manual removal of tar mats on the east side of the channel. Only material smaller than 5 cm should be removed, larger material may be left on site.

STATE OF ALASKA

DEPARTMENT OF FISH AND GAME

STEVE COWPER, GOVERNOR

333 RASPBERRY ROAD
ANCHORAGE, ALASKA 99518-1599
PHONE: (907) 344-0541

May 3, 1990

Dear Applicant:

The Alaska Department of Fish and Game, Habitat Division, is recruiting for a permanent/seasonal Clerk/Typist III position. This position is located in Anchorage. Duties include word processing and data entry using a PC, filing, operating copier and rapidfax machines, and other miscellaneous office duties.

Please return this notice stating your availability for this position to ADF&G/Habitat Division, 333 Raspberry Road, Anchorage, AK. 99518-1599 on or before May 14, 1990, 5:00 p.m. You may return this announcement with your response by folding it back into place with the return address on the outside. Personnel rules state that failure to respond could result in your name being removed from the eligible list. If you are interested, please send us an application or resume' with a current phone number. Thank you.

Sincerely,

Carol L. Roten

Carol L. Roten
Administrative Assistant
Habitat Division
(907) 267-2274

_____ I am not interested in applying for this position, but
would like to remain on the register.

_____ I am interested in applying for this position. (Please
attach an application or resume')

Date

Signature

Phone

ACE 7237483 -15

5/52

OPERATIONS FIELD NOTES

See Back for Instructions

SEGMENT ID ANAD-ER-019
 STREAM ID # 226-50-16406
 ANNOTATED MAP INCLUDED Y(N)

DATE 4-21-90
 NAME GARCIA
 TEAM # 15

SURFACE OIL	Quantities in Meters			None	Treatment Recommendation					
					Bioremediation		Tilling		Spot Hot Water	
	Length	Width	Area		Y/N	% Treat	Y/N	% Treat	Y/N	% Treat
Wide Band	VERY	LIGHTLY	AND	NONE						
Medium Band	SPORADICALLY	STAINED								
Narrow Band	LESS	THAN	15%.							
Very Light										
TOTAL MANDAYS						0		0		0

SUBSURFACE OIL - NONE

Other (Describe)?	

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

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

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

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

GENERAL

Snow covering 10 % of the Supratidal Zone?

Wave Exposure H/M/L

Access Limitations: NONE

Snare Boom/Pom Poms Recommended? NO

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

COMMENTS:

NO TREATMENT RECOMMENDED FOR THIS STREAM.

ACE 72375124/S

6/52

ADF&G MULTI-ASSESSMENT DATA FORM

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

2 REGION: PWS KP,CI X,AP

METHOD: Aerial Ground Boat

3 DATE: 4/21/90 15 HIGH TIDE TIMES: 1109, 2344

21 TEAM RECORDER: M. WIEDMER

4 START TIME: 1315 16 HIGH TIDE HTS: 9.4, 10.3

22 OBSERVERS: T. CROWE

5 STOP TIME: 1342 17 LOW TIDE TIMES: 0512, 1730

23 AGENCY: ADF&G

6 SECTENT #: ER-019 18 LOW TIDE HTS: 2.9, 1.1

24 PHOTOS TAKEN: Y N

7 STATION #: 226-50-16406 19 TIDE HT AT SURVEY: 7.4'

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: SOUTH TWIN BAY, S.W. ELLINGTON IS.

Sediment _____

14 DESCRIPTION: _____

Biological _____

EXTENT OF OIL

Water _____

	SHORELINE				STREAM			
	L	W	M ²	%	L	W	M ²	%
27 SURFACE COVERAGE	100	20		<1	100	10		0

36 CATALOGED ANAD. FISH SREAM? Y N

37 CATALOG #: 226-50-16406

38 STREAM NAME: _____

	SHORELINE				STREAM			
	L	W	M ²	%	L	W	M ²	%
28 SURFACE THICKNESS	<0.1 mm	0	0		0	0	0	
29 PENETRATION	<1 mm	0	0		0	0	0	

39 OIL IN STREAM BED? Y N

40 OIL ON STREAM BANKS? Y N

30 OVERALL OIL IMPACT: N VL L M H

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

31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain

42 OIL WITHIN 1 MILE OF STREAM? Y N

32 OILED DEBRIS? Y N

Where: _____

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

43 ANADROMOUS FISH PRESENT? Y N
FRY PRESUMED

34 WAVE EXPOSURE: High Moderate Low 35

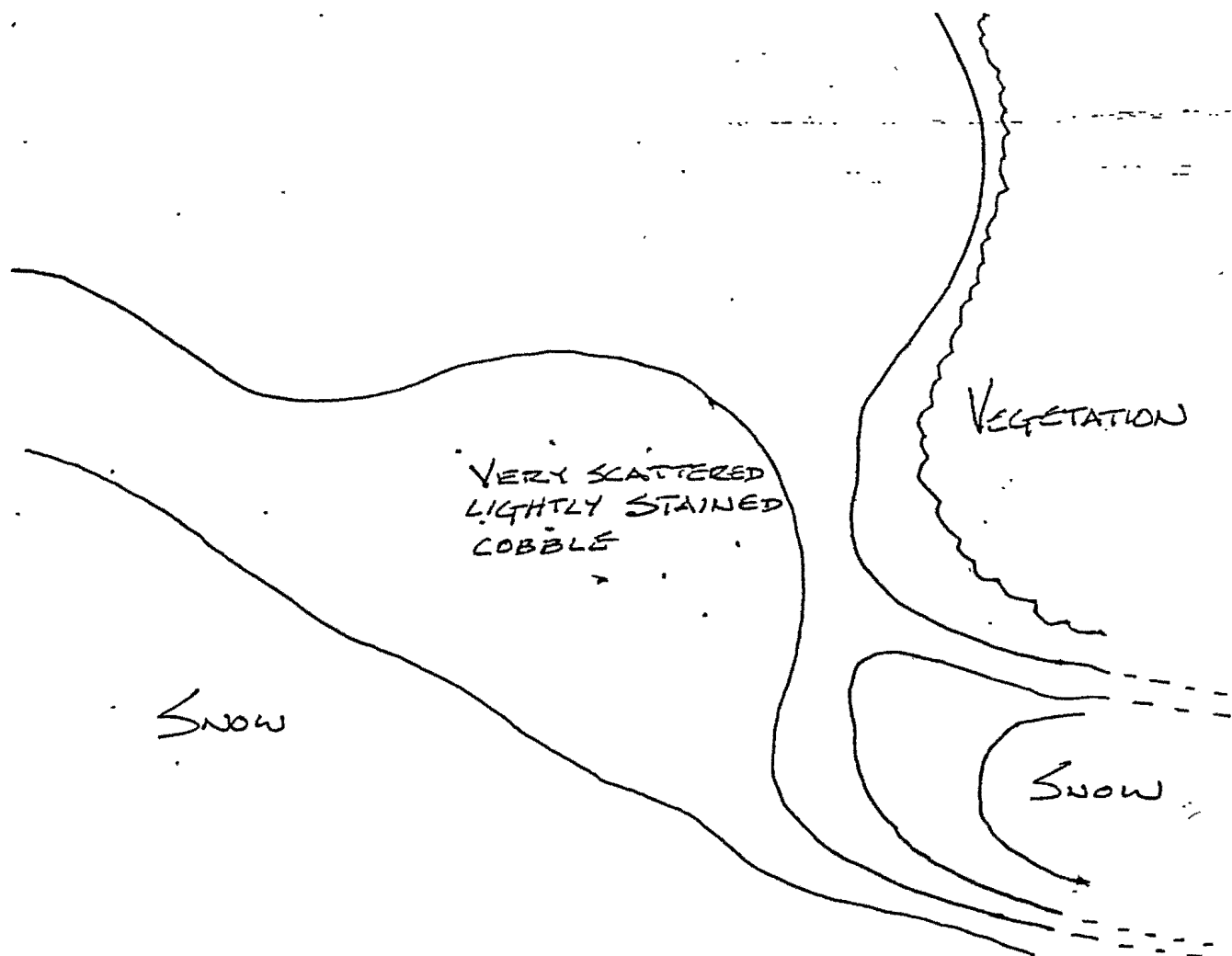
44 ANADROMOUS FISH OBSERVATION
Species Aerial Ground

35 SUBSTRATE TYPE: Bedrock _____ Boulder 5 Cobble 35
Gravel 30 Sand 30 Mud/silt _____

Species	Aerial	Ground

COMMENTS: VERY SCATTERED LIGHTLY STAINED COBBLE IN
MID-INTERTIDAL ZONE. NO TREATMENT RECOMMENDED.

48 OIL DISTRIBUTION DIAGRAM



ACE 7237514

OG WILLIAM LEID USCG McMAHON SEGMENT ST/ ER019
 BIO MICHAEL FAWCETT LAND REP TOM CRONE-ADIC 5 STREAM 22650162061 OF 1
 EXXON GUS GARCIA ADFG MIKE WIEDMER TIME 13:19 to 13:45
 TEAM NO. 15 TIDE LEVEL +6 FT DATE 21 / APR / 90
 EST. SUBDIVISION LENGTH: 100 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R % B % C 10 % P 60 % G 20 % S 10 % M % V
 SLOPE: Lang 20 % Hang 80 % Vert % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W m M m N m VL 50 m NO 50 m

SURFACE OIL

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

PAVEMENT H F S 0 sq. m by 0PATTIES / TARBALLS 0 BAGNEAR SHORE SHEEN? (NO) BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

Did you COLLECT DEBRIS
☐ YES ☒ NO

TYPE #BAGS

Photographs:

Roll No. AS-15-2Frames 1-4

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM)	BELOW		OIL / FILM COLOR					PIT ZONE				A N A	SHEEN (Y/N)	Y	SURFACE SUBSURFACE SEDIMENT
		OP	OR	OL	OF	NO		UO	UC	BR	BL	GY	OR	TL	SU	U	M	L				
1	35					X	-										X			N		G/P/C
2	30					X	-										X			N	25	G/P/C

COMMENTS

REVIEWED DATE

9/52

SSAT DATA ENTRY FORM

PAGE 1 OF 2

GENERAL DATA

226-50-16406
SEG ID: ER019 ^{STREAM!} SUBDIV: TEAM: 11015 SURVEY DATE: 21 APRIL 1990
PAVEMENT: CHAR — AREA 0 THICKNESS 0 TARBALLS 0
OILED: LGS — VEG — TRH — DBR — WAVE EXP: LW — MD X HG —
FAX RCVD: DT: AGENCY DISAGREE:
EST SUBDIV LGTH: 100 OIL CATEGORY: W 0 M 0 N 0 VL 50 NO 50 U

SURFACE DATA

SURFACE SEDIMENT: BRK 0 BLD 0 COB 10 PEB 60 GRN 20 SAN 10 MUD 0 VEG 0

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

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

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

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

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

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

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

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

10/52

SSAT DATA ENTRY FORM

SUBSURFACE DATA

PAGE 2 OF 2

SEGMENT ID: ER019 ^{STREAM:} ~~SUBDIV:~~ 226-50-16406

PIT # 1 PIT DEPTH 35 OIL CHARACTER NO OIL INTVAL: FROM — TO —
QUANT: — OIL CLR: — FLM CLR: — ZONE: SU — UI — MI X LI —
SUBSURF SEDIMENT: BRK — BLD — COB X PEB X GRN X SAN — MUD — VEG —

PIT # 2 PIT DEPTH 30 OIL CHARACTER NO OIL INTVAL: FROM — TO —
QUANT: — OIL CLR: — FLM CLR: — ZONE: SU — UI — MI X LI —
SUBSURF SEDIMENT: BRK — BLD — COB X PEB X GRN X SAN — MUD — VEG —

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

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

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

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

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

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: —

11/52 OG WILLIAM REID

SEGMENT ST/ E2019

STREAM 226-50-16406

DATE 21 APR 90

CHECKLIST

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

LEGEND

1 ▲

Pit - No Subsurface Oil

2 ▲

Pit - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

Splashed Distribution

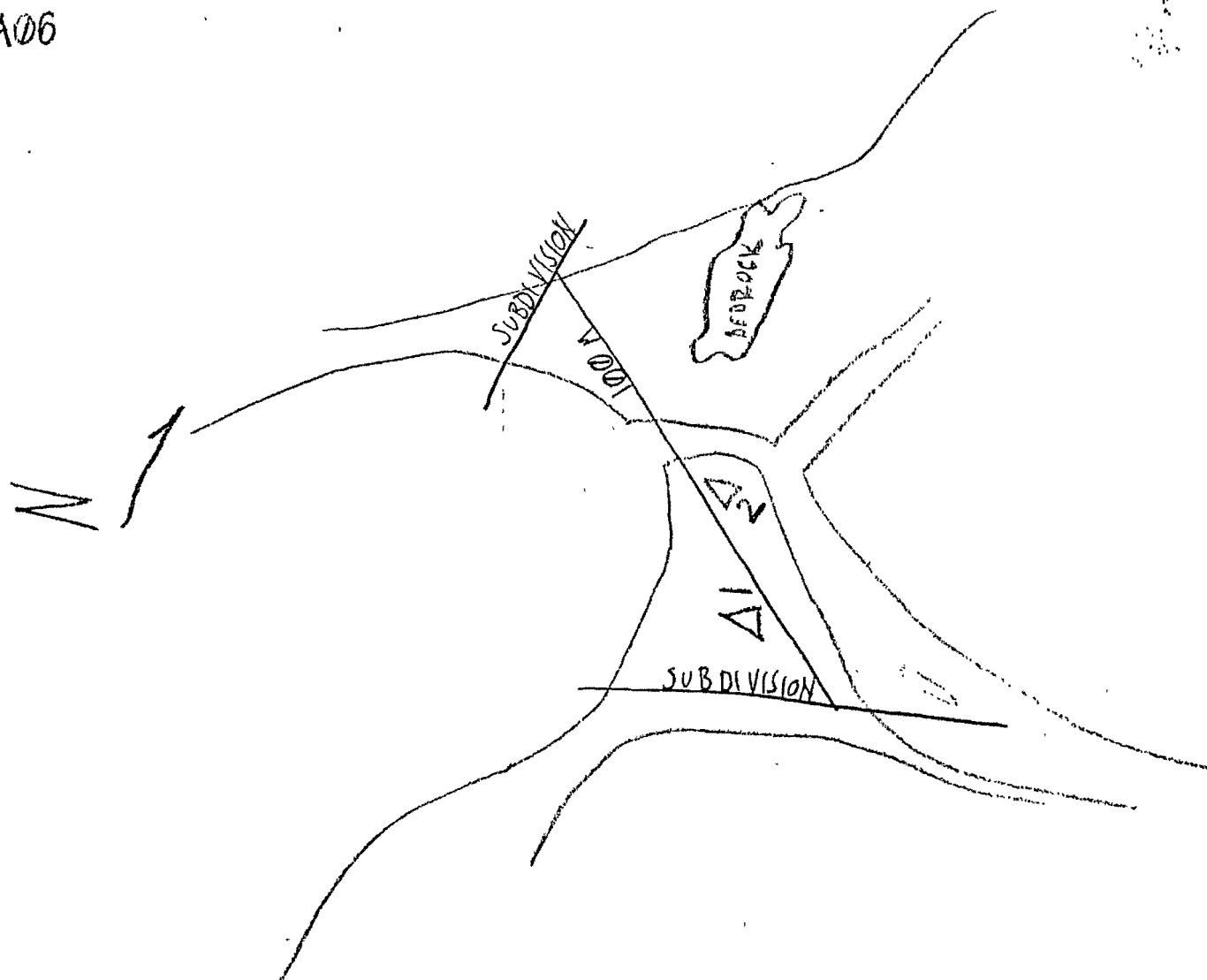
eee

Oiled Vegetation

1 ➡

Photo location, direction,
and number

SKETCH MAP



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

REVISION: 03/24/90

ACE 7237518

12/52

Segment ER 19
Stream 226-40-16406
Ecologist's Summary

4/21/90
Michael Fawcett

This stream lies at the end of a narrow bay, the stream mouth on a cobble/pebble/gravel beach, with larger boulders and scattered bedrock toward the north shore. Dense stands of Fucus and barnacles occupy the larger boulders in MTZ and LTZ. Scattered very light oil stains found in VTZ, no treatment recommended. One harbor seal seen.

M Fawcett

FIELD SHORELINE COMMENT SHEET

13/52

SEGMENT ST/ ER 019 SUBDIVISION: 16406 DATE 4/21/90

USCG

NAME CWO J. MC MATSON SIGNATURE [Signature]

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

ADFFG

ADEC

NAME Michael WIEDNER SIGNATURE [Signature]

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

LAND MANAGER

NAME No team member SIGNATURE _____

☐ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

OPERATIONS FIELD NOTES

See Back for Instructions

SEGMENT ID ANAD-ER-019
 STREAM ID # 226-50-16406
 ANNOTATED MAP INCLUDED Y(N)

DATE 4-21-90
 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	VERY	LIGHTLY	AND	NONE						
Medium Band	SPORADICALLY STAINED									
Narrow Band	LESS THAN 15%									
Very Light										
TOTAL MANDAYS						0		0		0

SUBSURFACE OIL - NONE

Other (Describe)?	

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

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

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

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

GENERAL

Snow covering 10 % of the Supratidal Zone?

Wave Exposure H/M/L

Access Limitations: NONE

Snare Boom/Pom Poms Recommended? NO

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

COMMENTS:

NO TREATMENT RECOMMENDED FOR THIS STREAM.

6/52

ADF&G MULTI-ASSESSMENT DATA FORM

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

METHOD: Aerial Ground Boat

3 DATE: 4/21/90 15 HIGH TIDE TIMES: 1109, 2344 21 TEAM RECORDER: M. WIEDMER

4 START TIME: 1315 16 HIGH TIDE HTS: 9.4, 10.3 22 OBSERVERS: T. CROWE

5 STOP TIME: 1342 17 LOW TIDE TIMES: 0512, 1730 23 AGENCY: ADF&G

6 SEGMENT #: ER-019 18 LOW TIDE HTS: 2.9, 1.1 24 PHOTOS TAKEN: Y N

7 STATION #: 226-50-16406 19 TIDE HT AT SURVEY: 7.4' Roll #: _____ Frames: _____

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

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

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

12 SOURCE: Map Loran 011 _____

13 LOCATION: SOUTH TWIN BAY, S.W. ELLINGTON IS. Sediment _____

14 DESCRIPTION: _____ Biological _____

Water _____

EXTENT OF OIL

	SHORELINE				STREAM			
	L	W	M ²	%	L	W	M ²	%
27 SURFACE COVERAGE	100	20		<1	100	10		0
28 SURFACE THICKNESS	<0.1 mm	0	0		0	0	0	
29 PENETRATION	<1 mm	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

35 SUBSTRATE TYPE: Bedrock _____ Boulder 5 Cobble 35
Gravel 30 Sand 30 Mud/silt _____

36 CATALOGED ANAD. FISH STREAM? Y N

37 CATALOG #: 226-50-16406

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: VERY SCATTERED LIGHTLY STAINED COBBLE IN
MID-INTERTIDAL ZONE. NO TREATMENT RECOMMENDED.

DESCRIPTION

48 OIL DISTRIBUTION DIAGRAM

VERY SCATTERED
LIGHTLY STAINED
COBBLE

VEGETATION

Snow

Snow

sample taken
photo frame # and
not direction.

OG WILLIAM LEID SCG McMAHON SEGMENT ST/ ER019
 BIO MICHAEL FAWCETT LAND REP TOM CROWE - ADEC STREAM 22650164061 OF 1
 EXXON GUS GARCIA ADFG MIKE WIEDMER TIME 13:19:13:45
 TEAM NO. 15 TIDE LEVEL + 6 FT DATE 21 / APR / 90
 EST. SUBDIVISION LENGTH: 100 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R 10 % B 10 % C 10 % P 60 % G 20 % S 10 % M 10 % V 10
 SLOPE: Lang 20 % Hang 80 % Vert 10 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 50 m M 50 m N 50 m VL 50 m NO 50 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	IC	FB	FP	FS	SP	SL	SW	SY	ST	SR	TL	LR	SU	U	M	L
ASPHALT PAVEMENT																
POOLED																
COVER																
COAT																
STAIN				X		X									X	
MOUSSE																
PATTIES																
TARBALLS																
FILM																
NO OIL																

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

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

Did You Collect

DEBRIS

☐ YES ☐ NO

TYPE

#BAGS

Photographs:

Roll No. AS-15-2Frames 1-4

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CM)	BELOW		OIL / FILM COLOR								PIT ZONE				A	N	A	SHEEN (Y/N)	↓	SURFACE SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UO	UC	SP	SL	SW	SY	ST	SR	TL	LR	SU	U	M	L						
1	35					X	.													X					N		G/P/C
2	30					X	.													X					N	25	G/P/C
							.																				
							.																				
							.																				
							.																				
							.																				

COMMENTS

REVIEWED _____ DATE _____

9/52

SSAT DATA ENTRY FORM

PAGE 1 OF 2

GENERAL DATA

226-50-16406
SEG ID: ER019 ^{STREAM} SUBDIV: TEAM: AKAD15 SURVEY DATE: 21 APRIL '90
PAVEMENT: CHAR — AREA 0 THICKNESS 0 TARBALLS 0
OILED: LGS — VEG — TRH — DBR — WAVE EXP: LW — MD X HG —
FAX RCVD: DT: AGENCY DISAGREE:
EST SUBDIV LGTH: 100 OIL CATEGORY: W 0 M 0 N 0 VL 50 NO 50 U

SURFACE DATA

SURFACE SEDIMENT: BRK 0 BLD 0 COB 10 PEB 60 GRN 20 SAN 10 MUD 0 VEG 0

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

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

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

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

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

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

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

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

10/52

SSAT DATA ENTRY FORM

SUBSURFACE DATA

PAGE 2 OF 2

SEGMENT ID: ER019 ^{STREAM}_{SUBDIV}: 226-50-16406

PIT # 1 PIT DEPTH 35 OIL CHARACTER NO OIL INTVAL: FROM TO
QUANT: OIL CLR: FLM CLR: ZONE: SU UI MI X LI
SUBSURF SEDIMENT: BRK BLD COB X PEB X GRN X SAN MUD VEG

PIT # 2 PIT DEPTH 30 OIL CHARACTER NO OIL INTVAL: FROM TO
QUANT: OIL CLR: FLM CLR: ZONE: SU UI MI X LI
SUBSURF SEDIMENT: BRK BLD COB X PEB X GRN X SAN MUD VEG

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

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

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

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

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

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:

11/52

SKETCH MAP

DATE 21 / APR 90

CHECKLIST

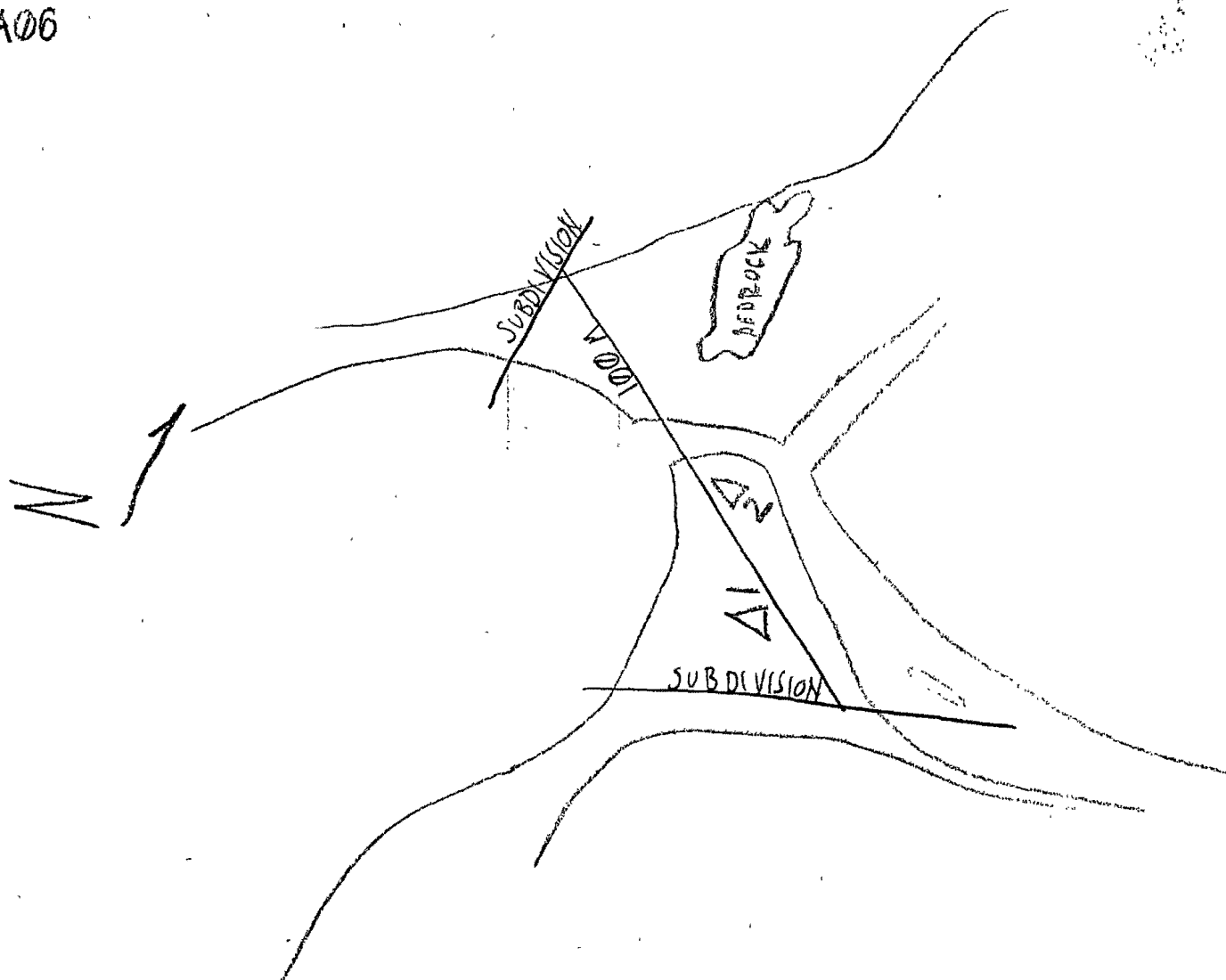
- ☐ N Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Bndry
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HWL/LWL
- ☐ SSL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ Pit Location(s)
- ☐ Photo Location(s)

LEGEND

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

1 

Photo location, direction,
and number



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

REVISION:03/24/90

Segment ER 19

4/21/90

Stream 226-40-16406

Michael Fawcett

Ecologist's Summary

This stream lies at the end of a narrow bay, the stream mouth on a cobble/pebble/gravel beach, with larger boulders and scattered bedrock toward the north shore. Dense stands of Fucus and barnacles occupy the larger boulders in MTZ and LTZ. Scattered very light oil stains found in VTZ, no treatment recommended. One harbor seal seen.



FIELD SHORELINE COMMENT SHEET

13/52

SEGMENT ST 1 ER 019 SUBDIVISION: 16406 DATE 4/21/90

USCG

NAME CNO J. MC MATTON SIGNATURE [Signature]

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

ADFFG
ADEC MICHAEL WIEDNER

NAME No team member SIGNATURE [Signature]

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

LAND MANAGER

NAME No team member SIGNATURE _____

☐ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/ ER-19 A STREAM NO: 226-50-16406 DATE 4/21/90

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)
1F Sawmill Bay Hatchery release (4/15 to 6/1)
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. Subject stream is included in Subdivision A (1 of 1).

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: J. Daniel McManis DATE: 5/2/90Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

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

COMMENTS:

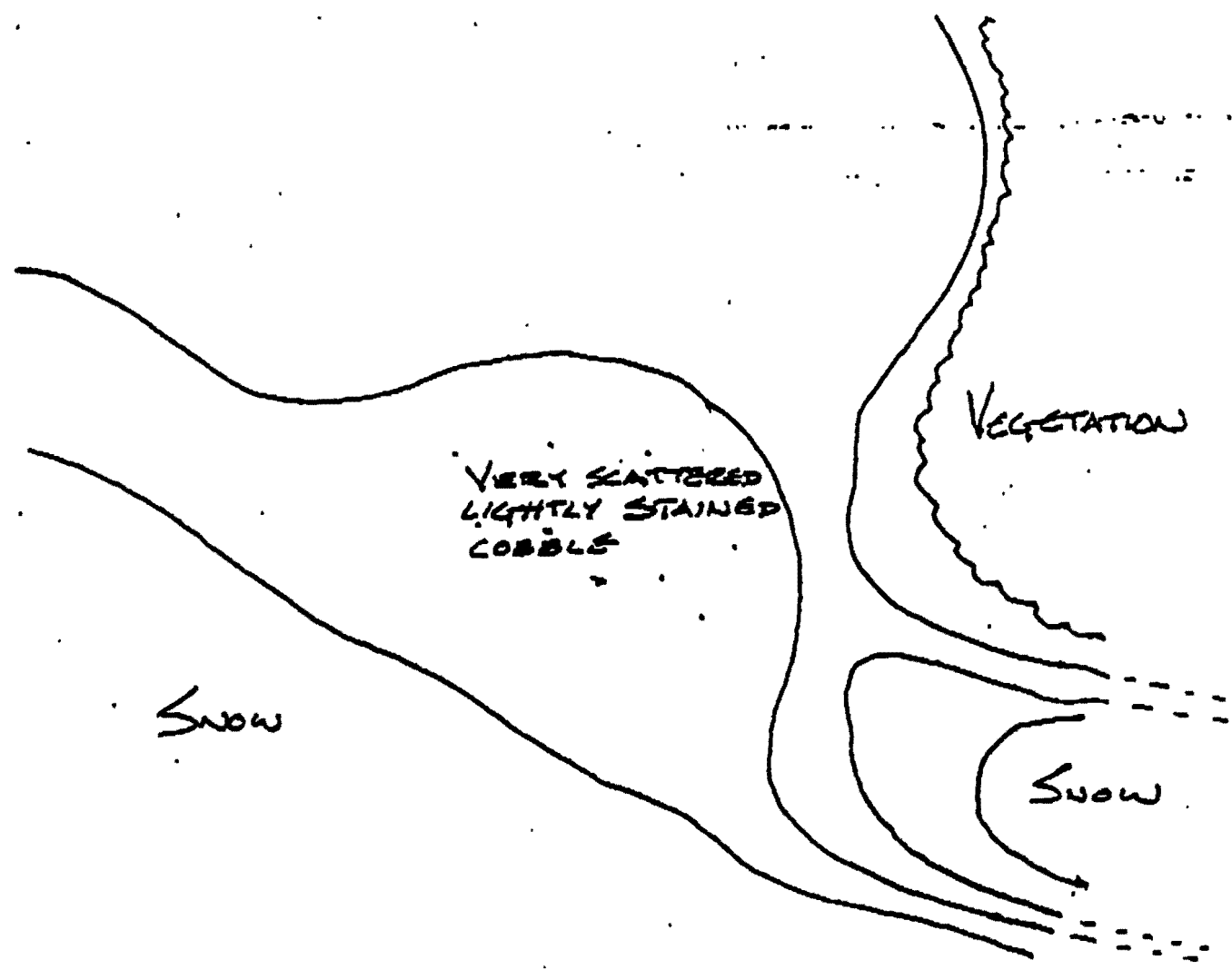
 TAG COMMENTS:

 TAG APPROVAL DATE: 5/7/90ADEC ART WETTER D. WettersEXXON ANDY TELL Andy TellNOAA Gary Petrac Gary PetracUSCG G.A. REITER G.A. ReiterFOSC: h L DATE: 5-15-90

ACE 7237484+1S

[illegible]

48 OIL DISTRIBUTION DIAGRAM

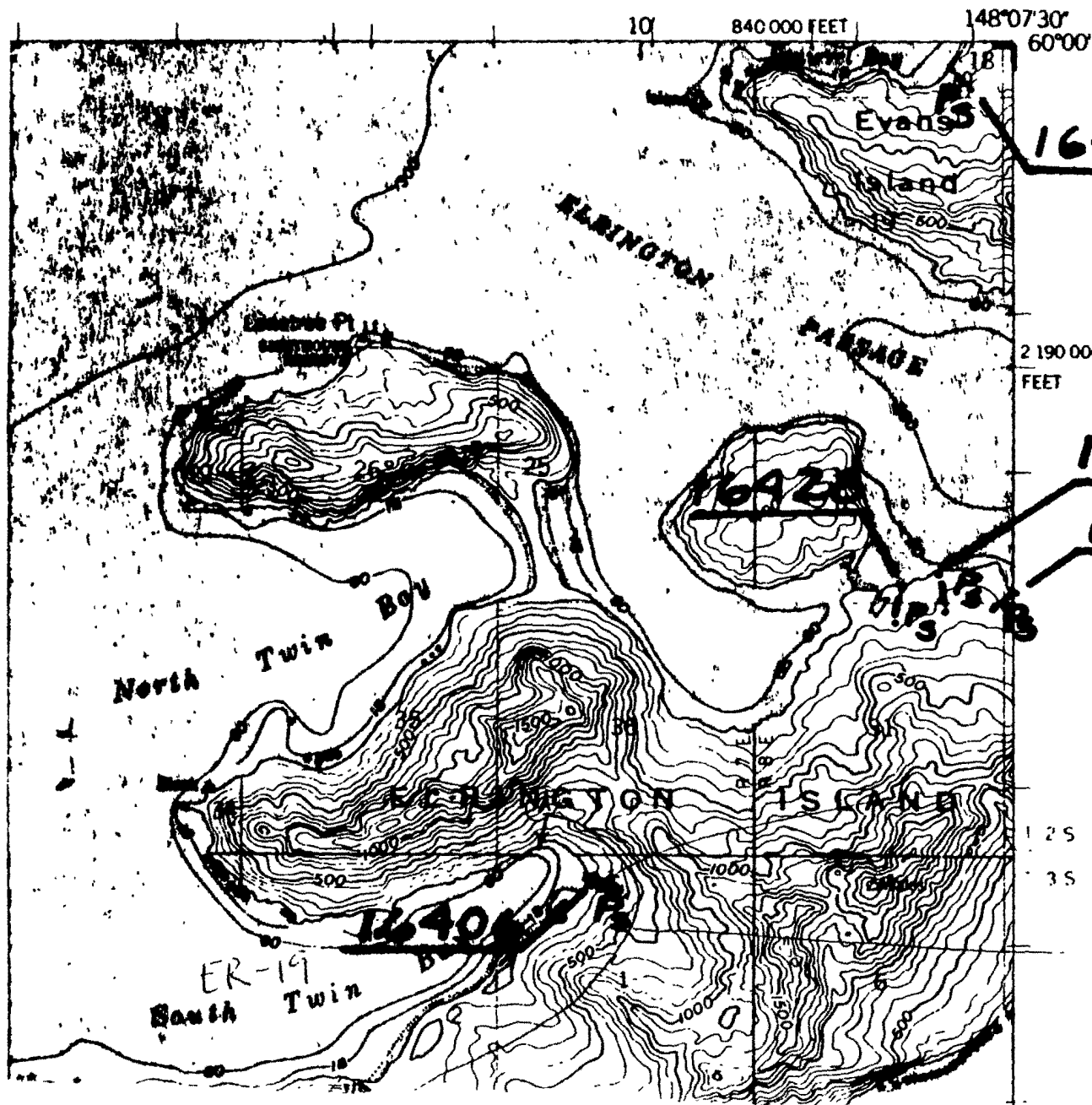


sample taken
from frame # and
for direction.

BLIVING SOUND (D-4) QUADRANGLE
ALASKA

1:63 360 SERIES (TOPOGRAPHIC)

(SEWARD 1A-3)



16448

16430

16432

Eco Map

SUBSECTION SIGMA
LF K1-A (1 of 1)

ACE 7237487

OG R. Marby

SEGMENT ST/ ER-19

SUBDIVISION A

DATE 1 April 90

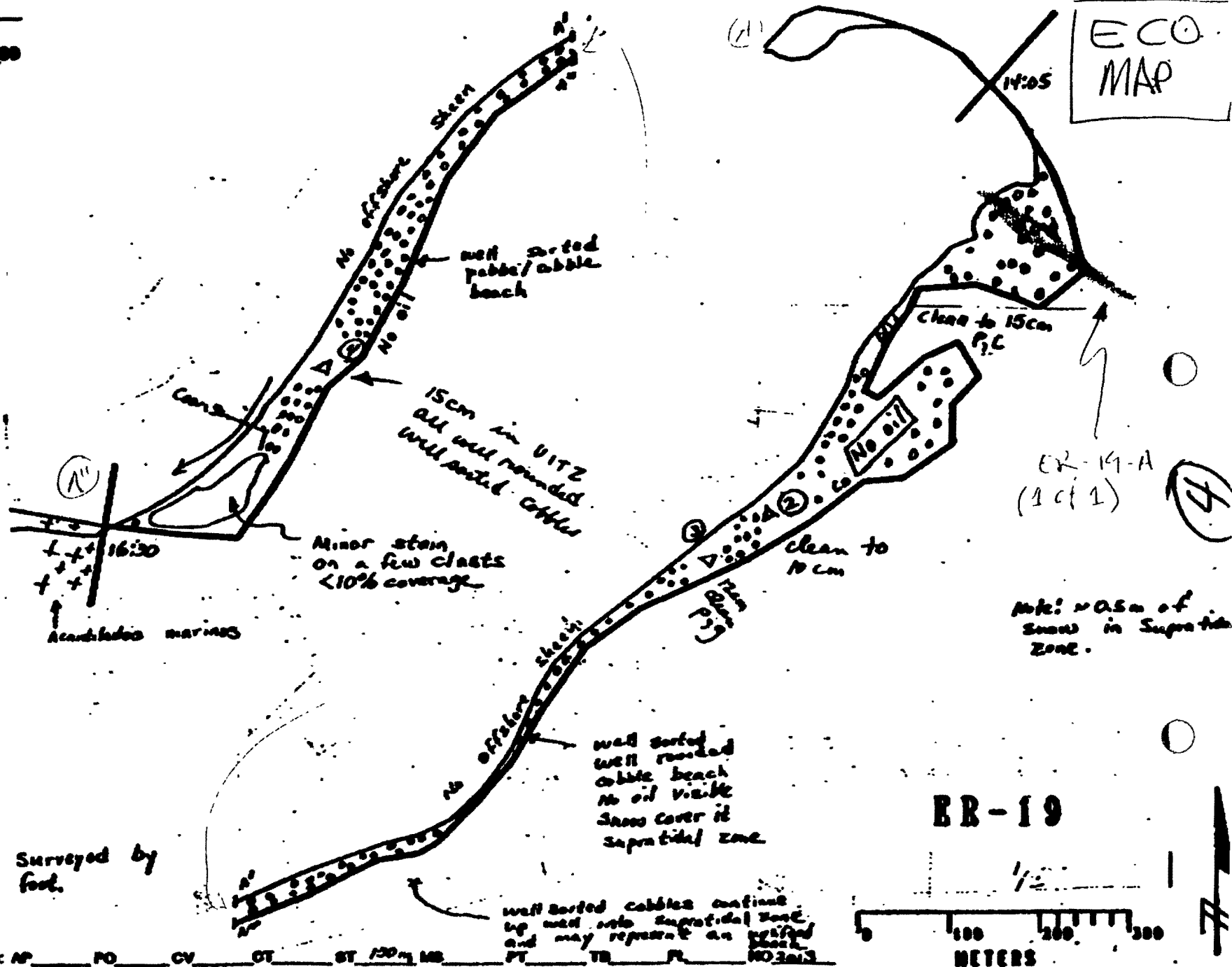
CHECKLIST

- ☐ H Area
- ☐ Approx. Grade
- ☐ Day/Night Study
- ☐ Oil Stain
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. NWLAW
- ☐ SBL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ Photo Location(s)
- ☐ Photo Location(s)

LEGEND

- ☐ ! Δ
- PT - No Subsurface Oil
- ☐ 2 Δ
- PT - Subsurface Oil
- ☐ CT/C
- Controlled Distribution
- ☐ CT/S
- Broken Distribution
- ☐ CT/P
- Patchy Distribution
- ☐ CT/S
- Spaced Distribution
- ☐ Old Vegetation
- ☐ 1 →
- Photo location, direction, and number

SKETCH MAP



Oil Character Length (m): AP PO CV OT ST 100m MB PT TR PL NO 3m/3

*Processed
5/1/90
MK*

RECEIVED
MAY 03 1990

DEPT. OF
ENVIRONMENTAL CONSERVATION

ANADROMOUS FISH STREAM ASSESSMENT

REGION: PRINCE WILLIAM SOUND

SEGMENT: ER-19 A

STREAM NO: 226-50-16406

Concur

ACE 7237489

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/ ER-19 A STREAM NO: 226-50-16406 DATE 4/21/90

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)

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

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. Subject stream is included in Subdivision A (1 of 1).

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: _____ DATE: _____

Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

X No Treatment Recommended

_____ Treatment Recommended

_____ Manual Pickup

_____ Bioremediation

_____ Tarmat Removal

_____ Snare/Absorbent Booms

_____ Oil Snares (pom poms)

_____ Absorbents (pads, rolls, etc)

_____ Spot Washing: _____ Wands

_____ Beach Cleaner

_____ Other (see comments)

COMMENTS: _____

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____

EXXON _____

NOAA _____

USCG _____

FOSC: _____ DATE: _____

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

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

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

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

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

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

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

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

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

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

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

1H Remote release site

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

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

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

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

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

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

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

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

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

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

Contact ADF&G for confirmation - dates and locations may vary. Restrict boat traffic to essential minimum. Avoid damage to uncoiled 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 Rothy 267-2206

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

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

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

AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377

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

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

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

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

6Y Special use destination

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

7HH Finfish harvesting

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

Invertebrate harvesting

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

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

FIELD SHORELINE COMMENT SHEET

13/52

SEGMENT ST ER 019 SUBDIVISION: 16406 DATE 4/21/90

USCG

NAME CWO J. MC MATHON SIGNATURE [Signature]

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

ADPC
ADEC Michael Wiedner

NAME No. 100 member SIGNATURE [Signature]

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

LAND MANAGER

NAME No. 100 member SIGNATURE _____

☐ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

Alaska Department of Fish and Game

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

21 April 1990

ASC # 226-50-16406Segment ER-019

Observations Very scattered, very lightly stained surface cobble along the mid-intertidal zone west of the stream channel. No visible signs of significant quantities of buried oil.

Treatment Recommendations If future observations do not reveal significant quantities of buried oil, no treatment is recommended.

ASC # 226-40-16484Segment EV-071A

Observations A 1 meter wide asphalt/tar band rings the upper-intertidal zone immediately adjacent to the stream channel. This ring extends 15 meters north and 50 + meters southwest of the stream channel. An armor of lightly oiled large cobbles and boulders covers a heavily oiled 5 cm thick band of small gravels and sands. The oil band abuts both sides of the stream channel.

Treatment Recommendations Manual removal of all oiled substrate smaller than 5 cm. Larger oiled cobbles and boulders should be relocated more than 25 m from stream channel.

ASC # 226-40-16509Segment EV-070A

Observations Sporadic stain, asphalt, tar, and buried mousse are distributed throughout the intertidal zone adjacent to the stream channel. Significant quantities of buried oil not observed.

OG WILLIAM LEID CGC McMAHON SEGMENT ST/ ER019
 BIO MICHAEL FAWCETT LAND REP TAM CROWE AD-5 STRAH 2265016061 OF
 EXXON GUS GARCIA ADFG MIKE WIDMER TIME 13:19 to 13:45
 TEAM NO. 15 TIDE LEVEL 6 FT DATE 21 / APR / 90
 EST. SUBDIVISION LENGTH: 700 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R 0 % B 0 % C 10 % P 60 % G 20 % S 10 % M 0 % V 0
 SLOPE: Long 20 % Hang 50 % Vert 0 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 50 m NO 50

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR					IMPACTED ZONES			
	C	S	P	N	1	2	3	4	5	SU	M	E	U
ASPHALT / PAVEMENT													
POOLED													
COVER													
COAT													
STAIN				X		X						X	
MOUSSE													
PATTIES													
TARBALLS													
FILM													
NO OIL										X	X		X

PAVEMENT H F S 0 sq. m by 0
 PATTIES / TARBALLS 0 BAK
 NEAR SHORE SHEEN? ☒ NO BR RW SL T

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

Did you collect DEBRIS
☐ YES ☒ NO
 TYPE _____
 #BAGS _____

Photographs:

Roll No. AS-15-2
 Frames 1-4

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL	BELOW		OIL / FILM COLOR					PIT ZONE				A N A	SHEEN (Y/N)	↓	SURFACE SUBSURFACE SEDIMENT	
		OP	OR	OL	OF	NO		15	16	~~17~~	~~18~~	~~19~~	~~20~~	~~21~~	~~22~~	SU	M	E					U
1	35					X	.										X			N			G/P/C
2	30					X	.										X			N	25		G/P/C
							.																
							.																
							.																
							.																

COMMENTS

REVIEWED JW DATE 4-25-90

152

P.11

SOFT TECH

TO

HANDLING AND CORDON

FROM UNIT NO. 11-27-24

ACE 7237495

OG WILLIAM REID

SEGMENT ST/ E2019

STREAM 226-50-16406

DATE 21 APR 00

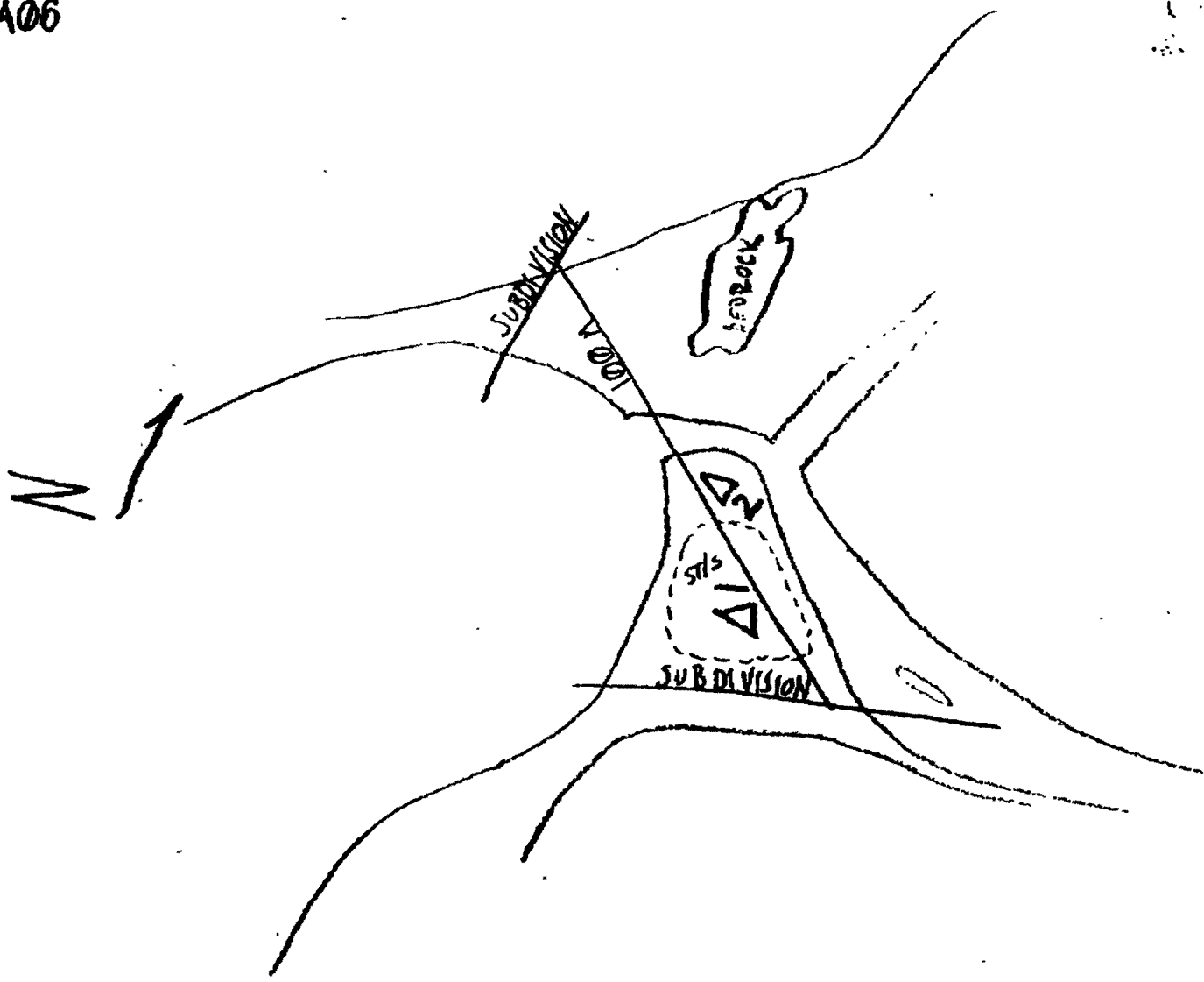
CHECKLIST

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

LEGEND

- 1 Δ
PH - No Subsurface Oil
- 2 Δ
PH - Subsurface Oil
- CT/C
Continuous Distribution
- CT/D
Broken Distribution
- CT/P
Pecchy Distribution
- CT/S
Splashed Distribution
- eee
Clad Vegetation
- 1 →
Photo location, direction, and number

SKETCH MAP



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

ADP&G MULTI-ASSESSMENT DATA FORM

SOFT TERN P. 06

6/52

1 SURVEY TYPE: BS SS OS TS AVS SCH MMS PTA 2 REGION: PNS KP, CI K, AP

METHOD: Aerial Ground Boat

3 DATE: 4/21/90 15 HIGH TIDE TIMES: 1109, 2344 21 TEAM RECORER: M. WIEDMER

4 START TIME: 1315 16 HIGH TIDE HTS: 9.4, 10.3 22 OBSERVERS: T. CROWE

5 STOP TIME: 1342 17 LOW TIDE TIMES: 0512, 1730 23 AGENCY: ADF&G

6 SEGMENT #: ER-019 18 LOW TIDE HTS: 2.9, 1.1 24 PHOTOS TAKEN: Y N

7 STATION #: 226-50-16406 19 TIDE HT AT SURVEY: 7.4' Roll #: _____ Frame: _____

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

9 STAT AREA: _____ 26 USCG QUAD: SEWARD A3 Starts: _____ Ends: _____

10 LAT: _____ 11 LONG: _____ 28 SAMPLES TAKEN: Y N Number _____

12 SOURCE: Map Loran _____ 017 _____

13 LOCATION: SOUTH TWIN BAY, S.W. ELLINGTON IS. Sediment _____

14 DESCRIPTION: _____ Biological _____

Water _____

EXTENT OF OIL

	SHORELINE				STREAM			
	L	Y	H ₂	S	L	Y	H ₂	S
27 SURFACE COVERAGE	100	20		<1	100	10		0
28 SURFACE THICKNESS	<0.1 mm	0	0		0	0	0	
29 PENETRATION	<1 mm	0	0		0	0	0	

30 OVERALL OIL IMPACT: N VL L N H

31 OIL TYPE: Pooled Moussé 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

35 SUBSTRATE TYPE: Bedrock _____ Boulder 5 Cobble 35
Gravel 30 Sand 30 Mud/silt _____

36 CATALOGED ANAD. FISH BREAST? Y N

37 CATALOG #: 226-50-16406

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: _____

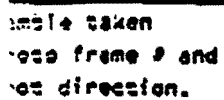
43 ANADROMOUS FISH PRESENT? Y N
FRY PRESUMED

44 ANADROMOUS FISH OBSERVATION

Species	Aerial	Ground

COMMENTS: VERY SCATTERED LIGHTLY STAINED COBBLE IN
MID-INTERTIDAL ZONE. NO TREATMENT RECOMMENDED.

40 OIL DISTRIBUTION DIAGRAM



ACE 7237497

12/52

Segment ER 19
Stream 226-40-16406
Ecologist's Summary

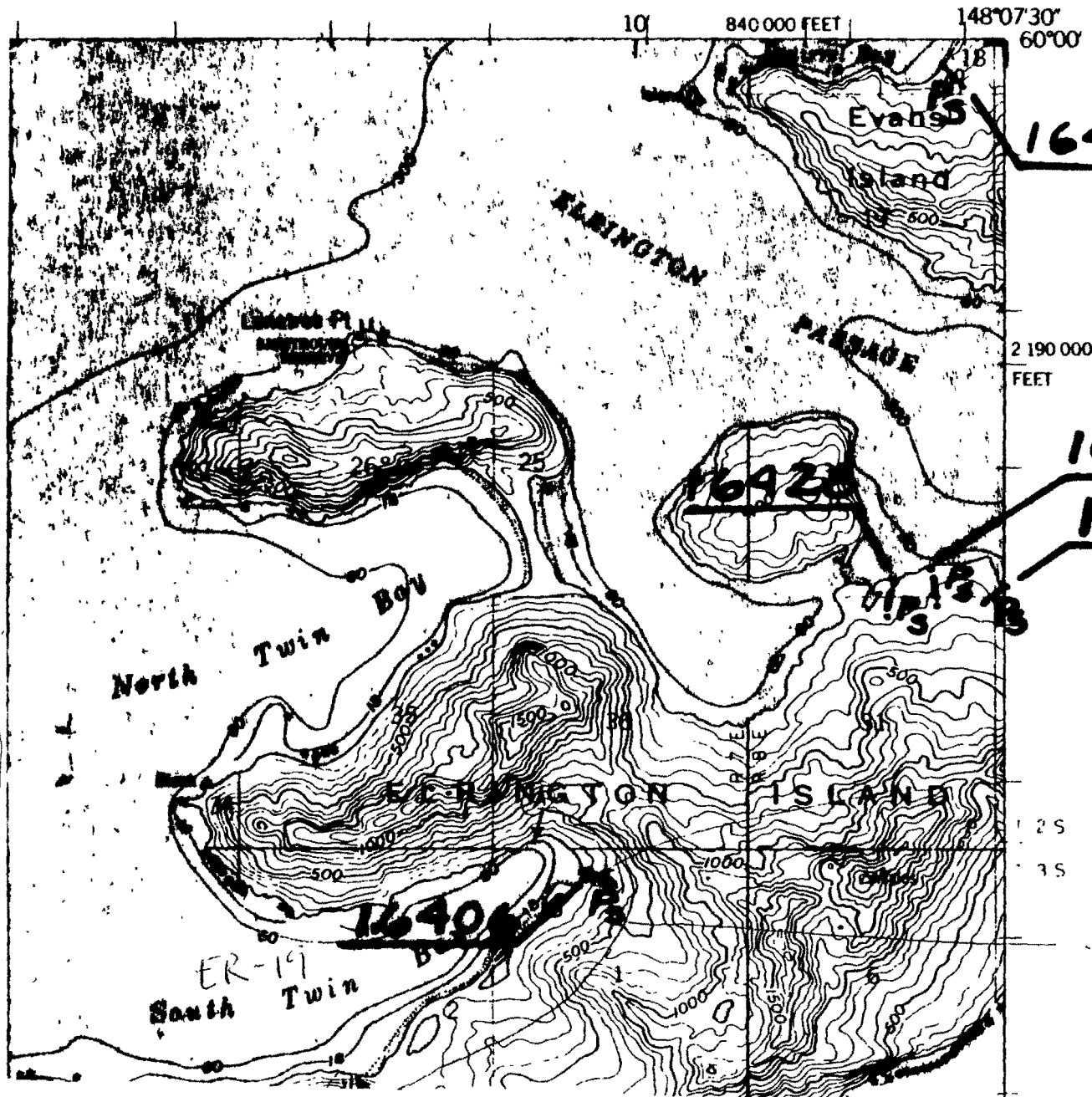
4/21/90
Michael Fawcett

This stream lies at the end of a narrow bay, the stream mouth on a cobble/pebble/gravel beach, with larger boulders and scattered bedrock toward the north shore. Dense stands of Fucus and barnacles occupy the larger boulders in MTZ and LTZ. Scattered very light oil stains found in VTZ, no treatment recommended. One harbor seal seen.

M Fawcett

BLIVING SOUND (D-4) QUADRANGLE
ALASKA
1:63 360 SERIES (TOPOGRAPHIC)

(SEWARD (A-3))



16448

16430

16432

ECO MAP

SUBJECT: SIBIRIA
LK K1-A (1 of 1)

SEE ART 12

ACE 7237499

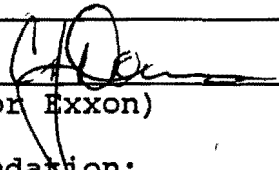
(version 6/04/89)

Kac 7/17
Shue 7/21

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Location (see enclosed map): Point Elrington Block

Includes Shoreline Segments: ER-19, ER-22, ER-23, ER-24

Submitted:  Date: 7/15/89
(for Exxon)

ISCC Recommendation: _____ Date: _____

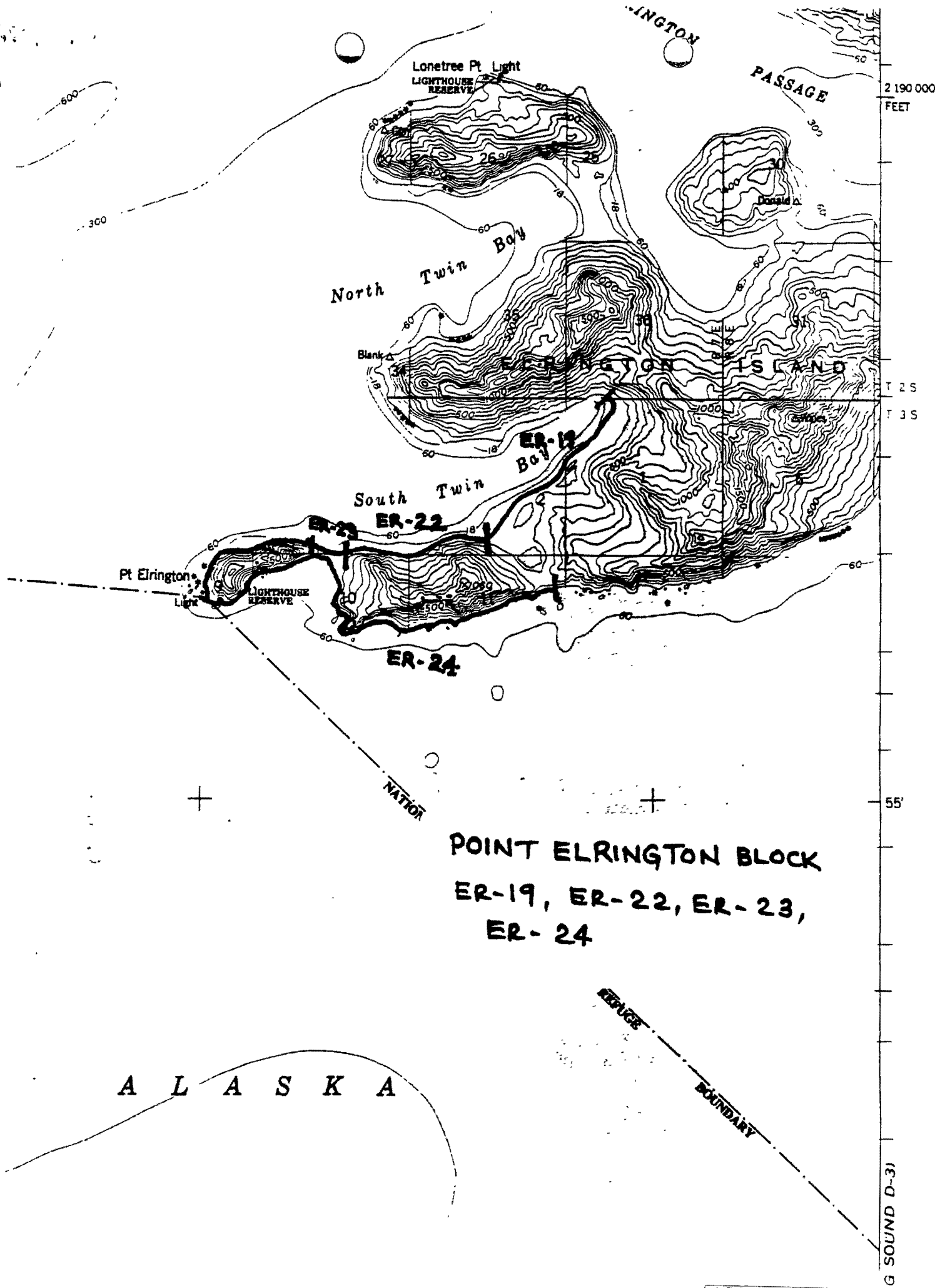
FOSC Approval: _____ Date: _____

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

Distribution:

Exxon Shoreline Coordinator
Exxon Shoreline Supervisor
Exxon SCAT file
FOSC
CDFU
NOAA
EPA
USDA (FS)
USFW
A.DEC
A.FG
A.DNR
CAC
PWSCA
USFS
SHPO

ACE 7237523+1S



POINT ELRINGTON BLOCK
ER-19, ER-22, ER-23,
ER-24

A L A S K A

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 7/12/89

SHORELINE SEGMENT ER-19

LOCATION: (see enclosed map) Elrington Island-South Twin Bay

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 6/30/89

Recommended Cleanup Activity(ies):

- Manually remove oiled drift material.
- Flood/flush with warm to hot water (up to 140 F) on low angle beaches.
- Use high pressure washing on rock and oiled logs.
- Use other approved methods as appropriate.

Priorities Considerations:

Class 3-4: Moderate to light oil.

B: Resources absent.

Ecological Constraints (from site survey):

Work at mid tide + or take appropriate measures to protect lower intertidal zone. This segment contains a suspected anadromous stream. Contact ADFG and RAT 48 hours prior to beginning cleanup.

Archeological Constraints (from site survey):

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

Charles E. Himes
State Historic Preservation Officer *

Date: July 12, 1989

EXXON: _____

Date: _____

FOSC: _____

Date: _____

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

ACE 7237525

SHORELINE OIL EVALUATION

Date: 6/30/89 Time: 17:20-19:00

Observer: KAROLIN DE RUSSK

Surveyed From: Foot/Boat/Helio/Plane

Weather: Sun/Cloud/Rain/Snow/Fc

LOCATION

LOCATION SE END OF S-SHORE OF S. TWIN BAY SEGMENT NUMBER EK-19

LENGTH OF SHORELINE SEGMENT: 2080 m

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

SHORELINE:

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

Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B 1 / C 45 / P 40 / G 10 / S 5 / M 0 / R 0

Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type ALGAE & LL

OIL

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

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

Continuous: Y/N % of Segment 5 Width of Band: 3 m

Sporadic: Y/N % of Segment 95

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

Pooled Oil: % "Free" Oil: % Coated: H 5 % / M 10 % / L 85 %

Fresh % Mousse % Tar Formation: 100 %

Drift Debris Oiled? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L

Comments:

THE MOST SIGNIFICANT OIL IMPACT IS AT THE FAR EAST
SIDE IN THE LITTLE DELTA AREA; SURFACE LAYER IS DENSE.
REMAINDER AND BULK OF BEACH IS VERY UNIFORM; OIL IS
VERY SPORADIC AND MINIMAL EXCEPT FOR A SMALL AREA
TO THE EAST WHERE AN AREA OF 13X10 FT IS COVERED BY OIL

Map/Aerial photo marking segment boundaries 400 (4-5-6)

VTR: Y/N Tape Number(s)

Photography: Y/N Roll Number(s) 1

Sample Numbers Collected:

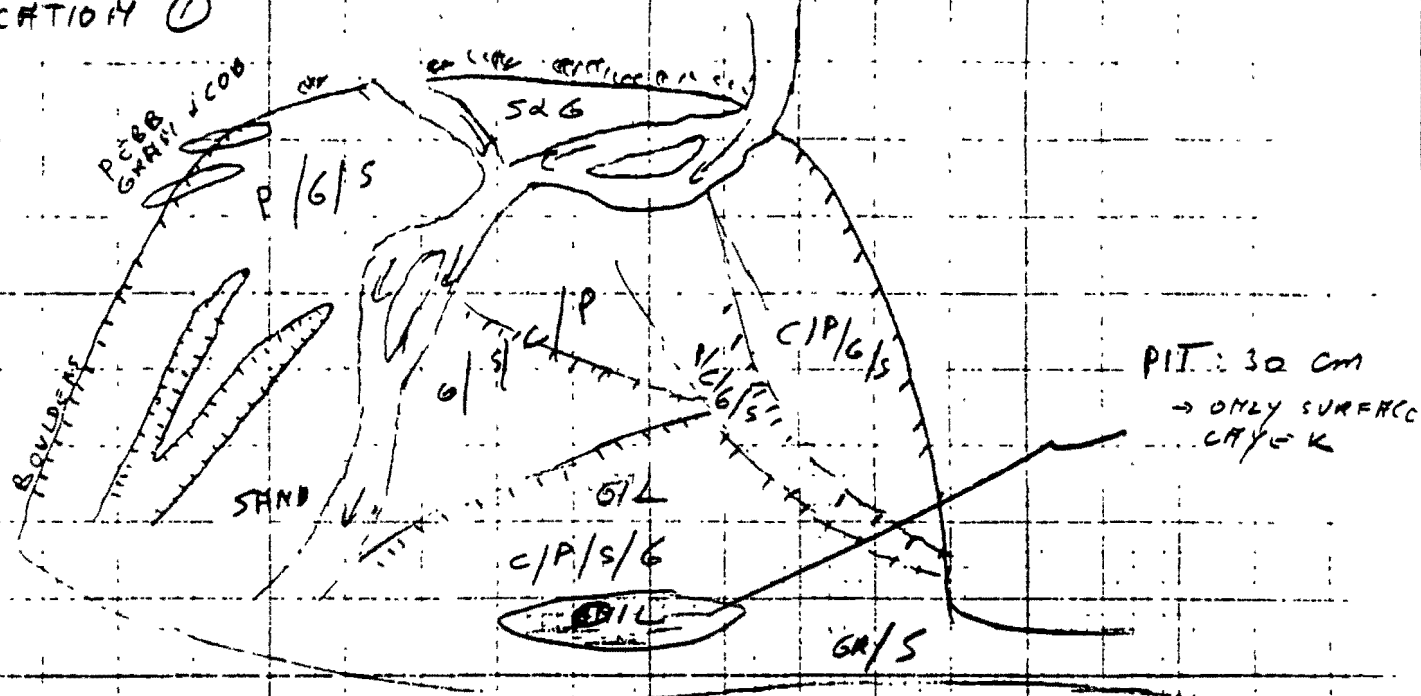
FIELD NOTES

6/30/89

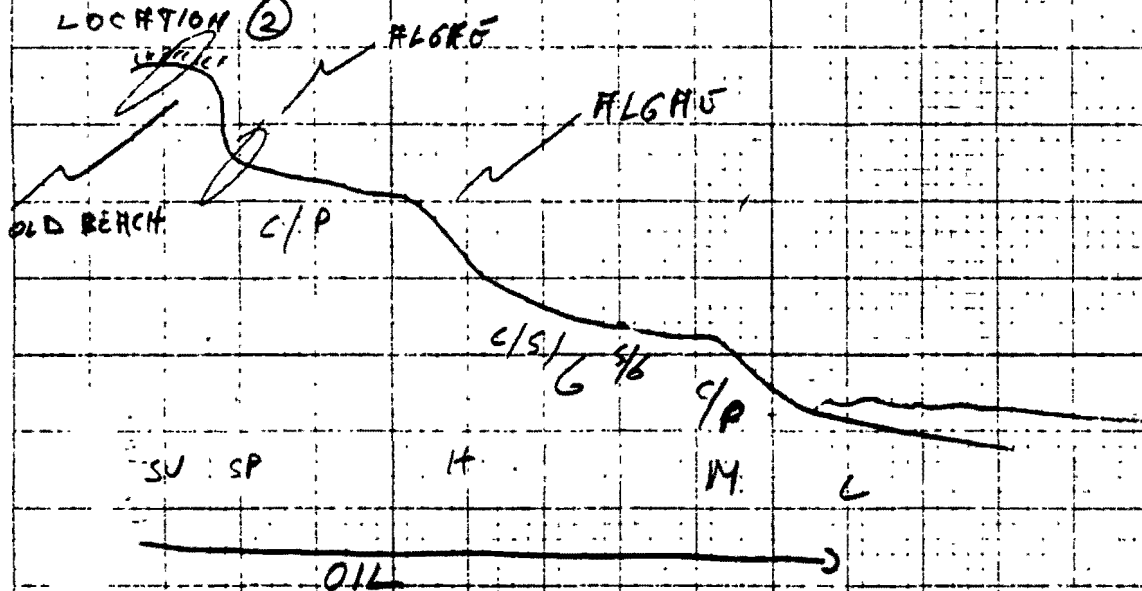
M. DEBUSSCHERE

ER-19

LOCATION ①



LOCATION ②



EN-17 14.20

LOCATION ①

CREEK IS LOADING INTO BEACH → SAND AREA

OIL PATCHES HIGH TIDE ON OLD

LARGE PATCH OF OIL → DENSE BUT NO PAVEMENT

→ IN LOW TIDE AREA

LOCATION ②

REPRESENTATIVE X-SECTION FOR WHOLE SEGMENT

OIL IN EVERY ZONE → VERY SPORADIC

L/M & H IS MOST

LARGEST OIL COVER IS 10M LONG & 3M WIDE

SEGMENT IS VERY UNIFORM REL LOW-INTEN ENERGY BE

MOSTLY C & P, VERY FEW BLD

LOCATION ③

P ②③ 18:37: VIEW ESE OF THE SEGMENT

P ②④ 18:38: EXTEND OF OIL

ECOLOGICAL EVALUATION

LOCATION: Prince William Is SITE: Ellington Is OBSERVER: E. R. White
 LOCATION PREFIX: ER SEG. NO.: 19 LENGTH: 2080 (M)
 DATE: / / TIME (HHMM): 1724-1820 TIDE HT.: 1.3 (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)

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

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

- occasional animals on larger cobbles.

Littorina

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

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

OTHER OBSERVATIONS: lower beach face supports a continuous,
dense population of amphipods; appears to be continuous growth
laminaria & Gigartina sub tidally

CLEANUP PRECAUTIONS: do not contaminate lower beach face and
sub tidal nearshore with oil

MAMMALS: Otters Harbor Seals Sea Lions 1 Whales
 Other

BIRDS: 4 surf scoters; black-legged kittiwakes off shore.

GENERAL OBSERVATIONS: The creek at the head of South Twin Bay has the
potential to be used by pink salmon for spawning. This should be checked
out with DFO prior to initiation of any cleanup activity. (See map)

CULTURAL RESOURCE EVALUATION

ELYING SOUND (D-4) QUAD

Date 7/1/89 Location SOUTH TWIN BAY, ELKINGTON Site 2.

Location Prefix ER- Segment # 19 Length

Survey Method:

Air (A - indicate on map) Boat ✓ (40%) (A - indicate on map)

Ground ✓ (60%) (G - indicate on map)

Known cultural resources (AHRS #) AHRS FILES UNAVAILABLE Data Source

Oil conditions/beach visibility ZERO TO LIGHT OIL; GOOD BEACH VISIBILITY

Width of beach zone surveyed 60 m Tree fringe surveyed 10 m

Cultural resources observed in beach zone (AHRS code) RCS

Cultural resources observed in tree fringe (AHRS code) NONE

General observations justifying survey method and segment's site probability

Shore Profile MODERATELY SLOPING COBBLE/GRANULE BEACH

Fresh Water Sources SMALL STREAM AT HEAD OF S. TWIN BAY.

Sea Exposure SOMEWHAT PROTECTED

Access/Safety GOOD BARGE ACCESS.

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 # PERMY 5 Frames 27-31

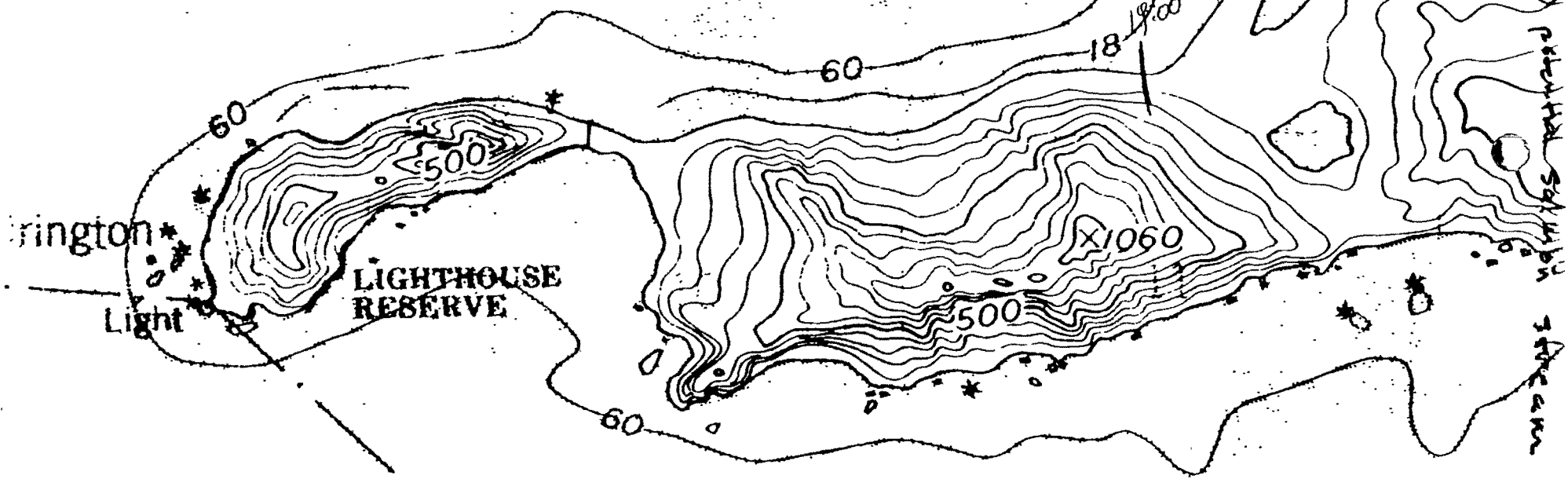
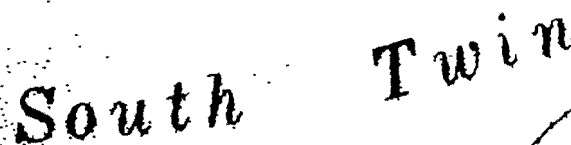
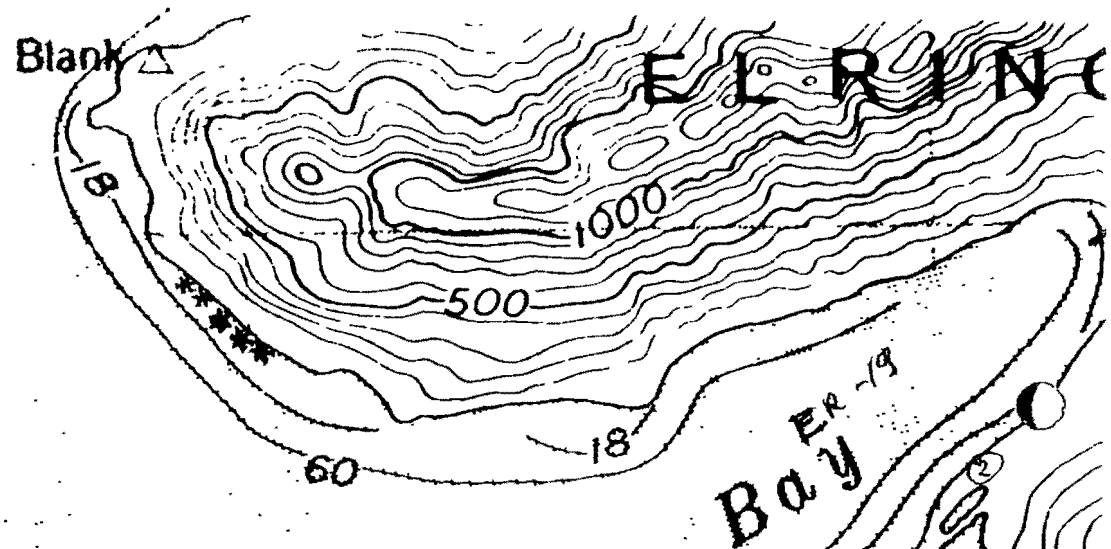
Observer(s) P. BUCK

Time survey started 4/30/89 1700 HRS Time survey ended 1900 HRS

Cultural resource considerations/restraints:

ACCESS TO AREA OF STORM BEACH / UPPER TIDAL SHOULD BE
RESTRICTED - OTHER USE STANDARDS AND CONSTRAINTS.

KAROLIEN DEBUSSCHER



ER019

VL

VL

ASC
1640b

500.0

VL

heavy & light

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

ACE 7237534 - L/AC/FF