

OIL SPILL PUBLIC INFO. CENTER



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EVOS
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1552
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S42
1991
v.11

[Shoreline evaluations, 1991].

Kodiak K0101 SI 005 to K0102 SI 014

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REGION: KODIAK

SEGMENT: ST/K01-01-SI-005

SUBDIVISIONS: A (1 OF 1)

SHORELINE EVALUATION

SEGMENT ST/ K01-10-SI-005 SUBDIVISION A (1 OF 1) DATE 3/31/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

3N Harbor seal pupping (5/10 to 6/30)

30 Harbor seal molting (8/15 to 9/15)

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to unoiled biota and substrate. See attached Ecological Constraint Sheet.

ARCHAEOLOGICAL CONSTRAINTS:

Consultation and inspection with an Exxon archaeologist is required prior to treatment. Specific on-site monitoring requirements will be determined at that time.

SHPO SIGNATURE: _____ DATE: _____

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 441 m: V.Light 0 m: No Oil 138 m

Subsurface Oil Observed: Yes X No _____ Maximum Depth 12 cm

RECOMMENDATIONS:

_____ No Treatment Recommended

X _____ Treatment Recommended

X _____ Manual Pickup

X _____ Bioremediation

_____ Tarmat: _____ Breakup

_____ Removal

_____ Snare/Absorbent Booms

_____ Oil Snares (pom poms)

_____ Absorbents (pads, rolls, etc)

_____ Spot Washing: _____ Wands

_____ Beach Cleaner

_____ Other (see comments)

COMMENTS: Recommend manual removal of pooled oil, followed by bioremediation of pooled oil and cover areas. Limit work to period between 7/1 and 8/14, per above constraints.

TAG COMMENTS:

TAG APPROVAL DATE: _____

ADEC _____

EXXON _____

NOAA _____

USCG _____

FOSC: _____ DATE: _____

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / K0110/SI005 SUBDIVISION: A DATE 3-31-90

NOAA

~~USCG~~

NAME

John Naughton

SIGNATURE

John J. Naughton☐ NO TREATMENT RECOMMENDED☒ TREATMENT SUGGESTED

COMMENTS

Treatment suggested, particularly for pooled oil on black sand beach at far ~~east~~ end of segment. Feel there is probably not subsurface oil in beach then we actually located. In addition area appears to be fairly low priority as far as resource sensitivity.

ADEC

NAME

Scott Shelton

SIGNATURE

Scott Shelton☐ NO TREATMENT RECOMMENDED☒ TREATMENT SUGGESTED

COMMENTS

K0110/SI005 Patchy distribution of oil along this segment is CLEANABLE/MANUAL type. Impact can be found pooled in sediment between boulders & rubble. Layers of oil observed along the east end of the segment this is a partly buried band of oil. Surf conditions exposed this band. Layer is 2cm thick with a length of 2m x 15m. Tide and wave conditions could expose more oil bands in this area/VERY CLEANABLE AREA.

LAND MANAGER

NAME

Ray Burger

SIGNATURE

Ray Burger☐ NO TREATMENT RECOMMENDED☒ TREATMENT SUGGESTED

COMMENTS

- Sporadic pooled oil in 170 m of mid segment good for manual cleanup
- "Bulldozer" beach at east end had a band of 2cm thick asphalt exposed by surf
 - we were able to uncover 2m x 15m ^{broken} band of this but there may be more of this along entire pebble beach, mid tidal to upper
 - subsurface assessment incomplete due to lack of tools

SHORELINE OILING SUMMARY

REVISION NO. 012270

OG Penland NOAA USCG Naughton SEGMENT ST/ K0110/52005
 BIO Spight LAND REP Burgen ADNR SUBDIVISION A
 EXXON Oyers ADEC Shelton TIME 13:00 10/14/90
 TEAM NO.: 19 TIDE LEVEL: +3.0 ft to +6.0 ft DATE 3/31/90
 EST. SUBDIVISION LENGTH: 625 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: W to E
 SURFACE SEDIMENTS: R 0 % B 20 % C 60 % P 20 % G 0 % S 0 % M 0 % V 0 %
 SLOPE: Lang 70 % Hang 20 % Vert 10 % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 475 m VL 0 m NO 150 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR					IMPACTED ZONES			
	IC	IB	IP	IS	SBL BR	DBL RW	GL SL	DLR TL	LR	SU	UI	M	U
ASPHALT PAVEMENT													
POOLED	X							X			X		
COVER		X	X					X			X		
COAT				X				X			X		
STAIN													
MOUSSE													
PATTIES													
TARBALLS													
FILM													
NO OIL										X		X	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			
Trash			
Debris			

DEBRIS COLLECTED
☐ YES ☒ NOTYPE 0#BAGS 0

Photographs:

Roll No. 19-3Frames 1-8

SUBSURFACE OIL

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		UD	UC	SBL BR	DBL RW	GL SL	DLR TL	LR	SU	UI	M	U		
1	30					X	-													coarse silt
2	30					X	-													pebble coarse
3	30			X			10 - 12	X				X			X					pebble
							-													
							-													
							-													

COMMENTS

00 Penla

SKETCH MAP

SEGMENT ST/ KOLLO/ SI 005

SUBDIVISION A

DATE 3 / 31 / 90

CHECKLIST

- ☒ N Arrow
- ☒ Approx. Scale
- ☒ Seg/Sub Bndry
- ☒ Di: Dist.
- ☒ Width
- ☒ Length
- ☒ % Cover
- ☒ Substrate Character
- ☒ Est. HW/LWL
- ☒ SSL
- ☒ Profile Location(s)
- ☒ Profile(s)
- ☒ Pit Location(s)
- ☒ Photo Location(s)

LEGEND

1 Δ

Pit - No Subsurface Oil

2 Δ

Pit - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

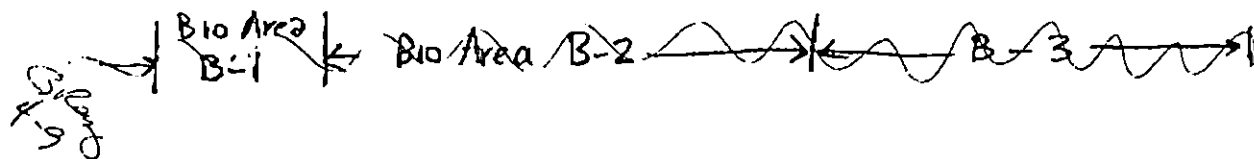
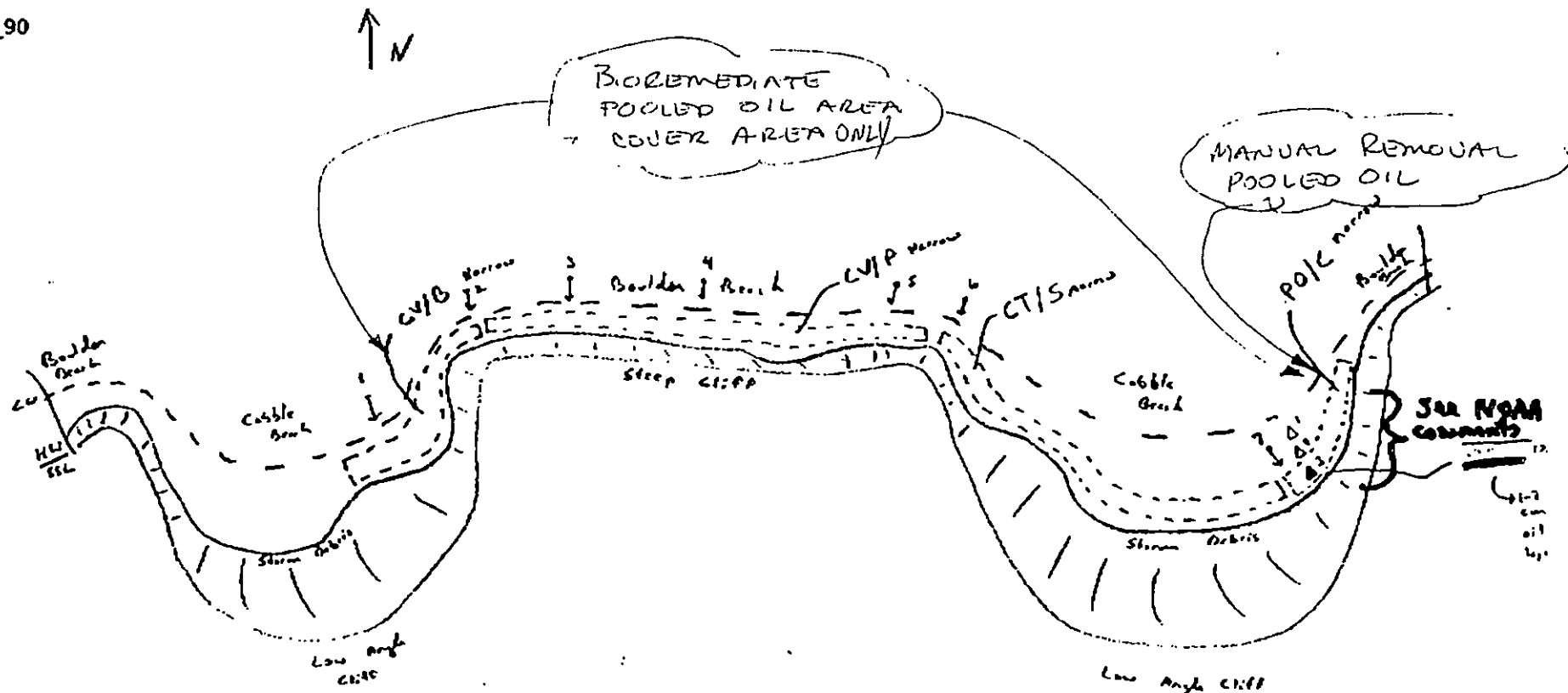
CT/S

Plashed Distribution

Red Vegetation

1 $\Rightarrow$

Photo location, direction,
and number



~ 100m

Character Length (m): AP 50 PO 50 CV 300 CT 200 ST 0 MS 0 PT 0 TB 0 FL 0 NO 150

REVISION 03/24/90

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22/89

Segment ST/ SI-5 Subdivision Bio Area B-1 Date (mo / day / yr) 3/31/90Time (24 hr) 1330 Biologist SP161T(A) Substrate type and % of segments:
(1) Bedrock _____ (2) Boulder _____ (3) Cobble 40 (4) Pebble 60 (5) Sand _____ (6) Silt _____(B) Overall % cover of biota (% of segment): Dense 60 Moderate 20 Low 20

(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	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

MYTILUS

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

NOT PRESENT

GASTROPODS

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

NOT PRESENT

FUCUS

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

NOT PRESENT

Wildlife Observations/ General Comments:

Ecological Considerations: *Balanus* cobble community
 Little sedentary fauna on uppermost cobbles
Urticina less abundant than at other SI sites
Fucus higher, lower than *Dornades*

K0110

SHORELINE ECOLOGICAL SUMMARY

REVISION: 02/22/90

Segment ST / SI 005 Subdivision Bio Area B-2 Date (mo / day / yr) 3/31/90
 Time (24 hr) 13³⁰ Biologist SPIGHT

- (A) Substrate type and % of segments:
 (1) Bedrock 40 (2) Boulder 60 (3) Cobble _____ (4) Pebble _____ (5) Sand _____ (6) Silt _____
- (B) Overall % cover of biota (% of segment): Dense 40 Moderate 40 Low 20
- (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	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

MYTILUS

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

NOT PRESENT

GASTROPODS

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

NOT PRESENT

FUCUS

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

NOT PRESENT

Wildlife Observations/ General Comments:

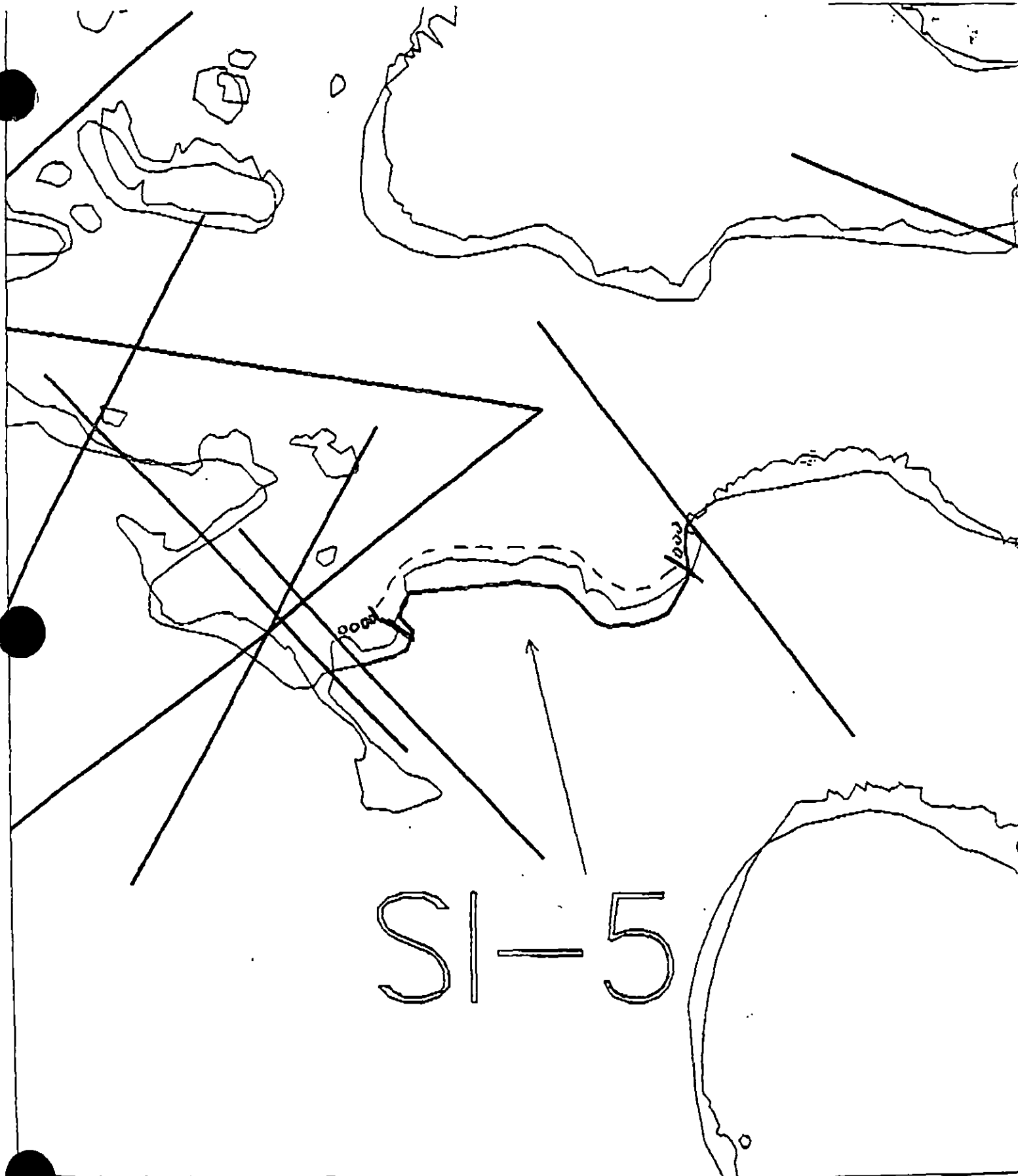
Ecological Considerations:

Typical algae-covered lower shore
 Bio Area B-3 is stones without surface fauna.

KODIAK ECOLOGICAL CONSTRAINTS

SL-005 A-

- 1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
 1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
 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 Kotai Bay Hatchery release
 Pink salmon - late May, early June; Chum salmon - June; Sockeye salmon - early July.
- 1H Remote release site
- 1I Gill net area
- 1J Purse seine area
 Mainland, West side Kodiak, Shuyak & Moser/Olga Bay - 6/9 to 10/1.
 East side Kodiak, East side Afognak - 7/4 to 10/1.
- 1K Purse seine hook-off
- 1L Set net sites
 USFWS setnet uplands permit 5/15 to 9/15.
- For Codes 1C through 1L contact ADF&G for specific dates, locations and constraints.
- 2M Herring spawning (4/15 to 6/30)
 Restrict boat traffic to essential minimum. Avoid damage to uncoiled intertidal and subtidal algae and seagrass. Contact ADF&G for specific dates and locations.
- 3N, 3P Harbor seal and sea-lion pupping (5/10 to 6/30)
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 3O, 3Q Harbor seal and sea-lion molting (8/15 to 9/15)
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 5R Seabird colony (5/1 to 8/31)
 Restrict air traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance. Contact ADF&G and USFWS prior to treatment.
- 5S Shorebird/waterfowl concentration (4/1 to 5/15)
 Restrict all activity to essential minimum, especially air traffic.
- 5T All Bald Eagle nests (3/1 to 6/1)
 Active Bald Eagle nests (3/1 to 9/1)
 Restrict air traffic to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates.
- 6U Recreation: Tent sites (6/1 to 9/15)
- 6V Anchorages (6/1 to 9/15)
- 6W Forest Service cabins (6/1 to 9/15)
- 6X Lodge (6/1 to 9/15)
- 6Y Special use destination
- 7Z Subsistence area: Salmon harvesting (6/1 to 9/30)
- 7HH Finfish harvesting
- 7II Deer harvesting (8/1 to 1/7)
- 7JJ Invertebrate harvesting
- 7KK Bear harvesting (4/1 to 5/15 and 10/25 to 11/30)
 For Codes 7Z through 7JJ contact ADF&G and Chenega Corporation for specific dates, locations, and constraints.



SI-5

XXXX Wide

//// Medium

---- Narrow

TTTT Very Narrow

SI-5

ADEC Segment Length: 625m

Map Key: GOA-20

Name: Penland

Date: 2-21-90

ADDENDUM: SUBDIVISION CONSTRAINTS

SEGMENT K01-10-SI-005 SUBDIVISION A (1 of 1)

WORK WINDOW

Manual Pickup

WORK 7/1 to 8/15

Bioremediation
Manual Raking

WORK 7/1 to 7/31

ARCHAEOLOGICAL MONITOR REQUIRED ON SITE.

>>> PHONE 564-3274 (Anchorage) OR 229-1508 (24 hrs.) <<<

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

3N,O,P,Q

Harbor Seal & Sea Lion
Pupping and Molting

Closed to bioremediation,
and manual raking prior to 7/1 and after
7/31. Closed to manual pickup before 7/1
and after 8/15.

5R

Seabird Colony

NO CONSTRAINT. Work site is more than
800m from seabird colony.

OTHER ECOLOGICAL CONSIDERATIONS

Do not apply bioremediation to specific areas where seals are observed to haulout. Do not chase or harass seals or sea lions, and do not approach pups under any circumstances. When working on or near haulouts, complete the job as quickly as possible with minimum personnel, equipment, noise and disturbance. Keep boats and personnel as far from actual haulouts as is practical to do the work specified. Minimize air traffic near haulouts, maintain elevation as is practical, and avoid repeated overflights of the same haulout areas.

FOSC

[Signature]

Date

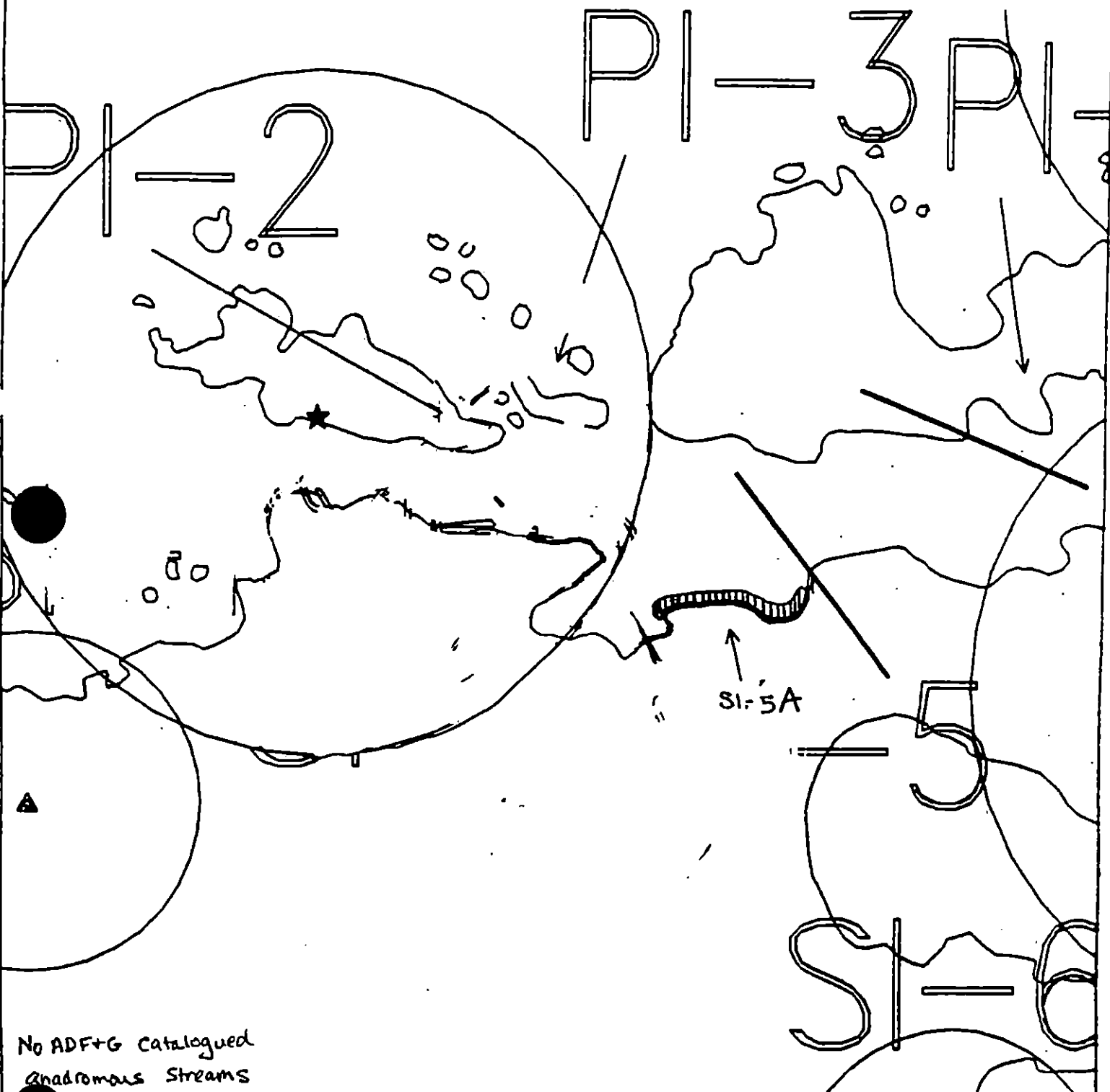
6/12/90

Prepared by

[Signature]

Date

06/13/90



No ADF+G Catalogued
Anadromous Streams



Exxon Company, USA
Map Key: KOD-SI-3



ECOLOGY MAP
SEGMENT SI-
SUBDIVISION A (1-1-1-1)
METERS

- ★ Seabird Colony
- ▲ Eagle Nest

SHORELINE EVALUATION

SEGMENT ST/ K01-10-SI-005 SUBDIVISION A (1 OF 1) DATE 3/31/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

3N Harbor seal pupping (5/10 to 6/30)
3O Harbor seal molting (8/15 to 9/15)

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to uncoiled biota and substrate. See attached Ecological Constraint Sheet.

ARCHAEOLOGICAL CONSTRAINTS:

C ARCHAEOLOGICAL CONSTRAINTS: An Exxon archaeological ^{CEK} ~~skipped~~ ^{skipped} prior
t monitor is required on-site during shoreline treatment. ~~nts~~ ^{nts} will be
d

SHPO SIGNATURE: Shirley Z. Holmes DATE: 4/17/90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 441 m: V.Light 0 m: No Oil 138 m
Subsurface Oil Observed: Yes X No Maximum Depth 12 cm

RECOMMENDATIONS:

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

COMMENTS: Recommend manual removal of pooled oil, followed by bioremediation of pooled oil and cover areas. Limit work to period between 7/1 and 8/14, per above constraints.

RAKE AREA INDICATED ON SKETCH PRIOR TO BIOREMEDIATION.

TAG COMMENTS:

SEE ATTACHED CONSTRAINT
ADDENDUM DATED 06/13/90
Rly C.

TAG APPROVAL DATE: 4/16/90

ADEC

EXXON

NOAA

USCG

FOSC:

DATE: 5-12-90

SHORELINE EVALUATION

SEGMENT ST K0101-SI-007 SUBDIVISION A (1 OF 5) DATE 4/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Salmon outmigration (3/1 to 5/15) Stream mouth spawning (7/10 to 8/31)
Sensitive Estuary near sement, LAND Mammals, near anadramous stream
No. 251-18-ASC# 10010

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: Charles Z. Adams DATE: April 14, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 0 m: No Oil 2434 m
Subsurface Oil Observed: Yes No Maximum Depth

RECOMMENDATIONS:

☒ 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: <u> </u> Breakup	<u> </u> Beach Cleaner
<u> </u> Removal	<u> </u> Other (see comments)

COMMENTS:

TAG COMMENTS:

TAG APPROVAL DATE: 4/14/90
ADEC JOHN BAUER John Bauer
EXXON ANDY TGR Andy TGR FOSC: X L DATE: 4-22-90
NOAA Bruce Wessett Bruce Wessett
USCG G.A. REITER G.A. Reiter

SI-4

SI-6

SI-7

SI-8

A

* see detail map

XXXX Wide

//// Medium

---- Narrow

SI-7

ADEC Segment Length: 5115m

Map Key: KOD-179

Name: Perland

SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-007 SUBDIVISION B (2 OF 5) DATE 4/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Salmon stream mouth - fry outmigration (3/1 to 5/15); Salmon stream mouth spawning (7/10 to 8/31); Sensitive Estuary near segment; land mammals near anadromous stream no. 251-18- ASC#10010.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to unoiled biota and substrate.

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: Charles Z. Dine

DATE: April 14, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 94 m: V.Light 0 m: No Oil 0 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

<u> </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>X</u> Bioremediation	<u> </u> Spot Washing: <u> </u> Wands
<u> </u> Tarmat: <u> </u> Breakup	<u> </u> Beach Cleaner
<u> </u> Removal	<u> </u> Other (see comments)

COMMENTS: Treat continuous cover and broken coat areas. Work between 5/16 to 7/9.

TAG COMMENTS:

TAG APPROVAL DATE: 4/14/90

ADEC Art Werner

EXXON ANDY TEAL

NOAA Burt Wescott

USGG. G.A. REITER

FOSC:

DATE: 4-22-90

OG Profile

SEGMENT SW K0101/S1007

SUBDIVISION B

DATE 4 / 1 / 90

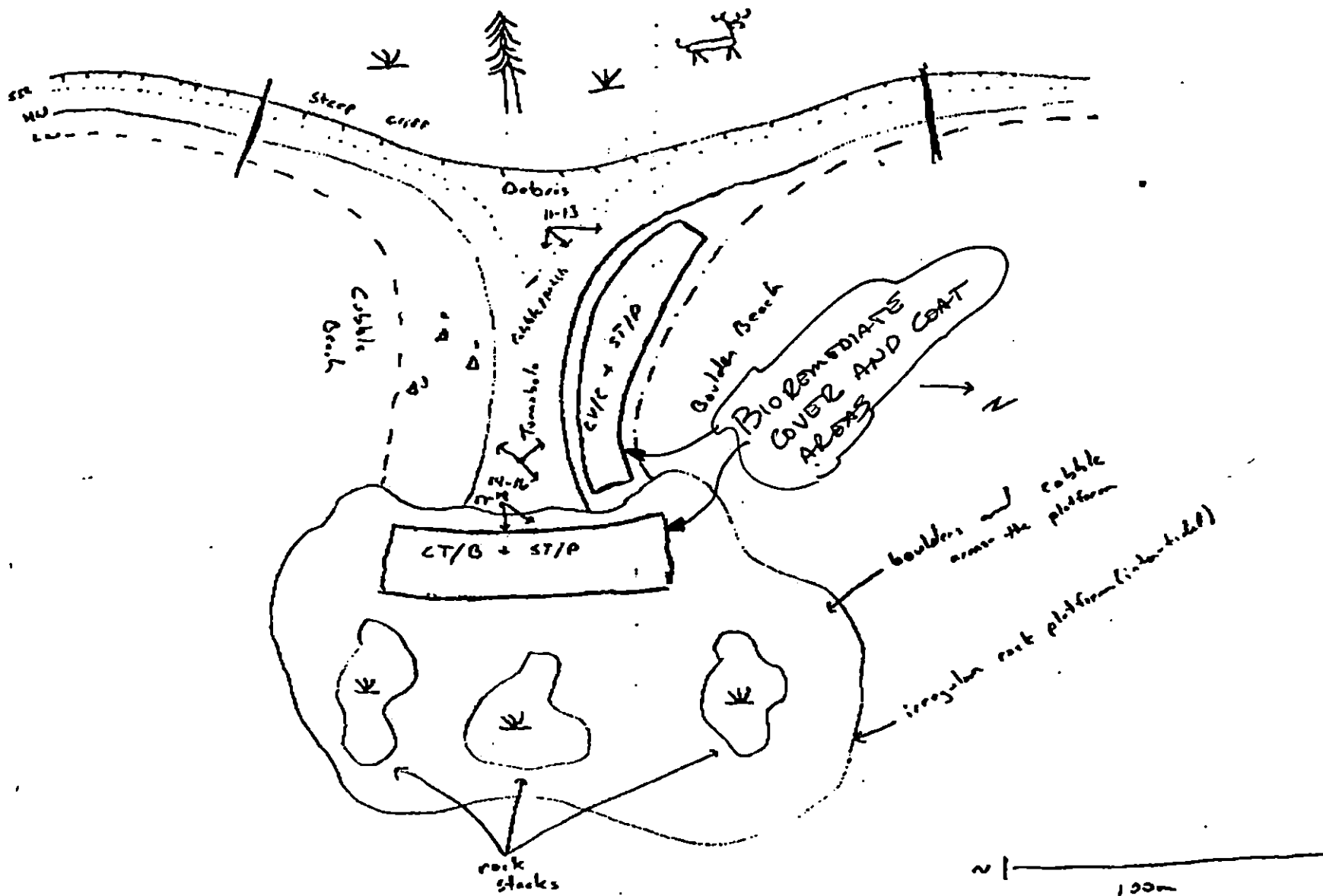
CHECKLIST

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

LEGEND

- 1 Δ
Pit - No Subsurface Oil
- 2 $\blacktriangle$
Pit - Subsurface Oil
- $\boxed{CT/C}$
Continuous Distribution
- $\boxed{CT/B}$
Broken Distribution
- $\boxed{CT/P}$
Patchy Distribution
- $\boxed{CT/S}$
Splashed Distribution
- $\odot$
Oil Vegetation
- $\odot$
Photo location, direction, and number

ETCH MAP



Oil Character Length (m): AP 0 PO 0 CV 100 CT 100 ST 200 MS 0 PT 0 TB 0 FL 0 NO 0

REVISION: 01/24/90

SI-4

SI-6

SI-7

SI-8

A

* see detail map

XXXX Wide

//// Medium

--- Narrow

SI-7

ADEC Segment Length: 5115m

Map Key: KOD-179

Name: Perland

ADDENDUM: SUBDIVISION CONSTRAINTS

SEGMENT K01-01-SI-007 SUBDIVISION B (2 of 5)

WORK WINDOW	
Bioremediation	OPEN

ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

1A,1B Salmon Stream

ADF&G catalogued anadromous streams (251-18-10010) is more than 100m from work site. No constraint to bioremediation.

5R Seabird Colony

No constraint to bioremediation, but follow transit route through seabird colony buffer zone as described on attached map.

OTHER ECOLOGICAL CONSIDERATIONS

Restrict boat traffic to essential minimum. Avoid any unnecessary disturbance or damage to unrolled substrate and biota especially intertidal and subtidal algae and seagrass. Sensitive estuary.

FOSC

D. Zampieri

Date

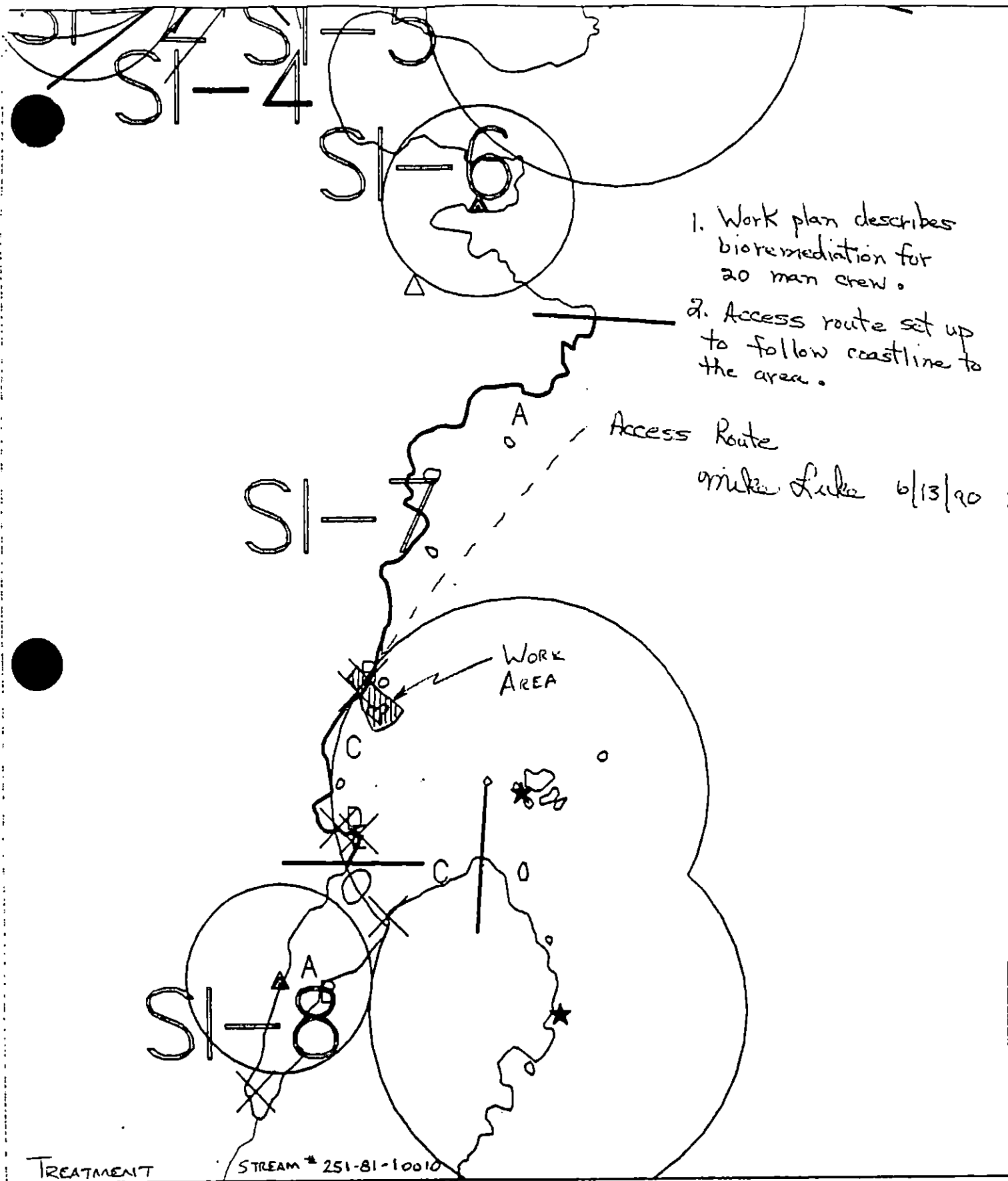
6-16-90

Prepared by

J.P. Phillips

Date

6/15/90



TREATMENT



Exxon Company, USA
Map Key: KOD-SI-7
June 10, 1990



ECOLOGY MAP
SEGMENT K1-1 SI-7
SUBDIVISION B (2 of 5)
METERS
0 594 1108

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

1 inch = 1618 feet

SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-007 SUBDIVISION B (2 OF 5) DATE 4/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Salmon stream mouth - fry outmigration (3/1 to 5/15); Salmon stream mouth spawning (7/10 to 8/31); Sensitive Estuary near segment; land mammals near anadromous stream no. 251-18- ASC#10010.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to unoiled biota and substrate.

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: Charles Z. [Signature]

DATE: April 14, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 94 m: V. Light 0 m: No Oil 0 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

<u> </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>X</u> Bioremediation	<u> </u> Spot Washing: <u> </u> Wands
<u> </u> Tarmat: <u> </u> Breakup	<u> </u> Beach Cleaner
<u> </u> Removal	<u> </u> Other (see comments)

COMMENTS: Treat continuous cover and broken coat areas. Work between 5/16 to 7/9.

SFE CONSTRAINT ADDENDUM dated 6/15/90 JP

TAG COMMENTS:

TAG APPROVAL DATE: 4/14/90

ADEC Art Weyner

EXXON Andy Teal

NOAA Burt Wascott

USCG G.A. REITER

FOSC: [Signature]

DATE: 4-22-90

SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-007 SUBDIVISION C (3 OF 5) DATE 3/31/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Salmon stream outmigration (1A) - 3/1 to 5/15; Salmon stream mouth spawning (1B) - 7/10 to 8/31. No disturbance of stream bed or banks unless authorized by ADF&G Habitat Division prior to treatment for permits. Sensitive estuary, ASC# 256-40, #10010.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to unoiled biota and substrate.

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: Charles J. Hines

DATE: April 14, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 0 m: No Oil 810* m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

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

COMMENTS: No computer map data, OG estimate used.

TAG COMMENTS:

TAG APPROVAL DATE: 4/14/90

ADEC JOHN BAUER

EXXON ANDY TEAL

NOAA Burt Wescott

USCG G.A. REITER

FOSC:

DATE: 4-22-90

K0101-SI007



NS

NS



500.0

OILING

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

Distance In Meters

ADGC Sep/Oct 1988 Survey

SI-4

SI-6

SI-7

SI-8

A

* see detail map

XXXX Wide

//// Medium

--- Narrow

TTTT Very Narrow

ADEC Segment Length: 5115m

SI-7

Map Key: KOD-179

Name: PortlandDate: 4-1-90

SHORELINE EVALUATION

SEGMENT ST/ K0101-SI-007 SUBDIVISION D (4 OF 5) DATE 4/4/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Sensitive estuary nearby (8AA); Land Mammals present (9LM).

SUBDIVISION ECOLOGICAL CONSTRAINTS: Avoid disturbance/damage to uncoiled substrate and biota.

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

SHPO SIGNATURE: Charles E. Hoffman DATE: April 14, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 91 m: No Oil 0 m
Subsurface Oil Observed: Yes No 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: <u> </u> Breakup	<u> </u> Beach Cleaner
<u> </u> <u> </u> Removal	<u> </u> Other (see comments)

COMMENTS:

TAG COMMENTS:

TAG APPROVAL DATE: 4/14/90

ADEC JOHN BAUER John Bauer

EXXON ANDY TEAL Andy Teal

NOAA Bruce Westcott Bruce Westcott

USCG G. A. REITER G.A. Reiter

FOSC: hgh

DATE: 4-22-90

APR-02-1990

SI-4

SI-6

SI-7

SI-8

A

C

TTT

DTT

ETT

* see detail map

XXXX Wide

//// Medium

--- Narrow

TTTT

SI-7

ADEC Segment Length: 5115m

Map Key: KOD-179

Name: Perland

Date: 4-1-90



SHORELINE EVALUATION

SEGMENT ST/K0101-SI-007 SUBDIVISION E (5 OF 5) DATE 3/31/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Salmon stream outmigration (1A) - 3/1 to 3/15 and spawning (1B) - 7/10 to 8/31, ASC# 256-40, #10010. No disturbance of stream bed or banks unless authorized by ADF&G. Contact ADF&G Habitat Division prior to cleanup for permits. Sensitive estuary.

SUBDIVISION ECOLOGICAL CONSTRAINTS: Avoid disturbance/damage to uncoiled substrate and biota.

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

SHPO SIGNATURE: Charles E. H. D. M. DATE: April 14, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V. Light 0 m: No Oil 96 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: <u> </u> Wands
☐ Tarmat: <u> </u> Breakup	☐ <u> </u> Beach Cleaner
☐ <u> </u> Removal	☐ Other (see comments)

COMMENTS:

TAG COMMENTS:

TAG APPROVAL DATE: 4/14/90.
ADEC Art Weimer
EXXON Andy T. E. FOSC: My L DATE: 4-22-90
NOAA Bul Wescott
USCG G. A. BEITER

OG Pe

SEGMENT 01 20121 / SI 007

SUBDIVISION E

DATE 3 / 31 / 90

CHECKLIST

- ☒ N Arrow
- ☒ Approx. Scale
- ☒ Seg/Sub Bndry
- ☒ Oil Dist
- ☒ Width
- ☒ Length
- ☒ % Cover
- ☒ Substrate Character
- ☒ Est. H/W/L/V/L
- ☒ SSL
- ☒ Profile Location(s)
- ☒ Profile(s)
- ☒ PH 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

Oiled Vegetation

1 ➡

Photo location, direction,
and number

SKETCH MAP

1 CLIP

0 300m

Oil Character Length (m): AP 0 PO 0 CV 0 CT 0 ST 0 MS 0 PT 0 TB 0 FL 0 NO 100

REVISION 002180

P.17

15643771

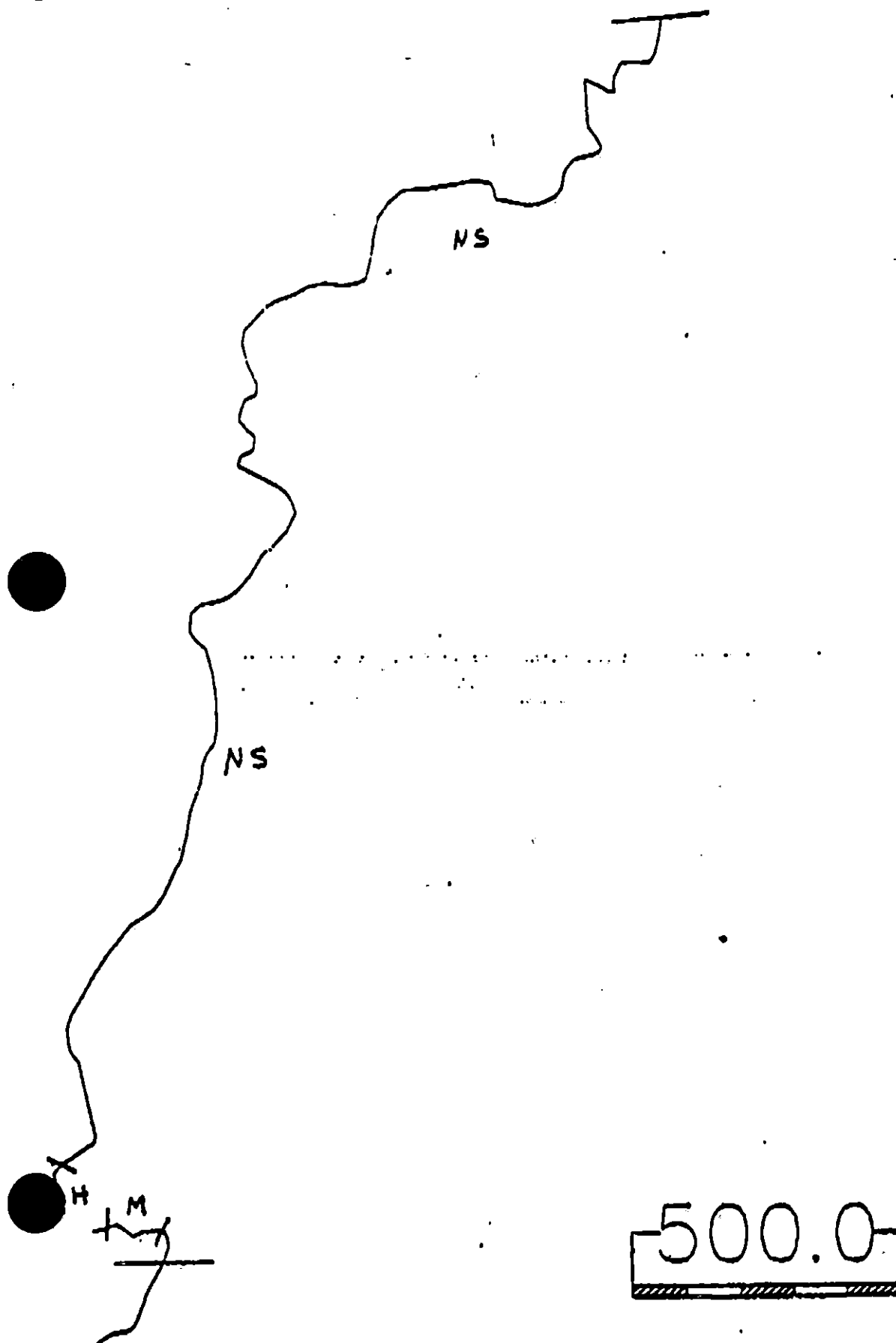
TO

FROM EXXON KODIAK

18:40

APR-02-1990

K0101-SI007



OILING

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

Distance In Meters

AGEE Sep/Oct 1988 Survey

SI-4

SI-6

SI-7

SI-8

A

C

* see detail map

XXXX Wide

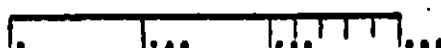
//// Medium

--- Narrow

TTTT Very Light

SI-7

ADEC Segment Length: 5115m



Map Key: KOD-179

Name: Perland

Date: 4-1-90

REGION: KODIAK

SEGMENT: K0101 - SI-007

SUBDIVISIONS: A (1 OF 5)

SHORELINE EVALUATION

SEGMENT ST K0101-SI-007 SUBDIVISION A (1 OF 5) DATE 4/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Salmon outmigration (3/1 to 5/15) Stream mouth spawning (7/10 to 8/31)
Sensitive Estuary near sement, LAND Mammals, near anadramous stream
No. 251-18-ASC# 10010

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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 0 m: No Oil 2434 m
Subsurface Oil Observed: Yes _____ No _____ 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: _____ Breakup	_____ Beach Cleaner
_____ Removal	_____ Other (see comments)

COMMENTS:

TAG COMMENTS:

TAG APPROVAL DATE: _____

ADEC _____

EXXON _____

NOAA _____

USCG _____

FOSC: _____ DATE: _____

FIELD SHORELINE COMMENT SHEET

SEGMENT ST 10101/51007 SUBDIVISION: A DATE 4-1-90DAA
USCG
NAMEJohn Naughton

SIGNATURE

John P. Naughton☒ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTEDNo oil observed.ADEC
NAMEScott Shelton

SIGNATURE

Scott Shelton☒ NO TREATMENT RECOMMENDED☐ TREATMENT SUGGESTEDCOMMENTS 10101/51007 Sub. AHigh energy shoreline ~ access very limited, steep cliffs
bedrock outcrops. and consider bedrock beaches.
helicopter fly by No oil observed.

LAND MANAGER

NAME

Ray Burger ADNR

SIGNATURE

Ray Burger☐ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTEDTwo pocket beaches were quickscattered by helicopter set down on tidelands
for 5-10 min. while 2 crewmembers got out - no oil observed.Headlands on remainder of subd. prevented access/assessment.Area being considered for Shuyak State Park addition.Numerous deer on beach.

OG Perland NOAA USCG Naughton SEGMENT ST/ K0101/S1007
 BIO Spight LAND REP Quisenberry - APR SUBDIVISION A
 EXXON 2 years ADEC Shelton TIME 11:05:10:12:45
 TEAM NO.: 19 TIDE LEVEL: 2.6 ft 10.0 ft DATE 4/1/90
 ST. SUBDIVISION LENGTH: 3815 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☐ Foot ☐ Boat ☒ Helo WORKING DIRECTION: N 10 S
 SURFACE SEDIMENTS: R 20 % B 20 % C 20 % P 20 % G 20 % S 0 % M 0 % V 0 %
 SLOPE: Land 20 % Hang 30 % Vert 50 % WAVE EXPOSURE: ☐ Low ☐ Med ☒ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 0 m NU 3815 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR						IMPACTED ZONES			
	10	75	17	75	SB BR	OR RW	OL	SL DRR	TL LR	SU	UI	M	U	
ASPHALT PAVEMENT														
POOLED														
COVER														
COAT														
STAIN														
MOUSSE														
PATTIES														
TARBALLS														
FILM														
NO OIL														

PAVEMENT: H F S 4/4 sq. m by 1/4 cmPATTIES / TARBALLS N/A ^{Ref} BAGSNEAR SHORE SHEEN? ☒ NO DR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

DEBRIS COLLECTED

☐ YES ☒ NOTYPE N/A#BAGS N/A

Photographs:

Roll No. —Frames —SUBSURFACE OIL No Dits dug

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CH)	BELOW	OIL / FILM COLOR							PIT ZONE				A N A	SUBSURFACE SEDIMENTS	
		OP	OR	OL	OF	NO			UO	UC	SBL BR	DBL BW	GL SL	DBH TL	LH	SU	UI	M	LI			
0							.															
							.															
							.															
							.															
							.															
							.															

COMMENTS

• No Dits dug, helicopter flyby.

OG Pen

SKETCH MAP

SEGMENT ST/ K0121/SE007

SUBDIVISION A

DATE 9 / 1 / 90

CHECKLIST

- ☒ N Arrow
- ☒ Approx. Scale
- ☒ Seg/Sub Bathy
- ☒ Oil Dist.
- ☒ Width
- ☒ Length
- ☒ % Cover
- ☒ Substrate Character
- ☒ Est. H/W/L/V/L
- ☒ SSL
- ☒ Profile Location(s)
- ☒ Profile(s)
- ☒ Pit Location(s)
- ☒ Photo Location(s)

LEGEND

1 Δ

Pit - No Subsurface Oil

2 Δ

Pit - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

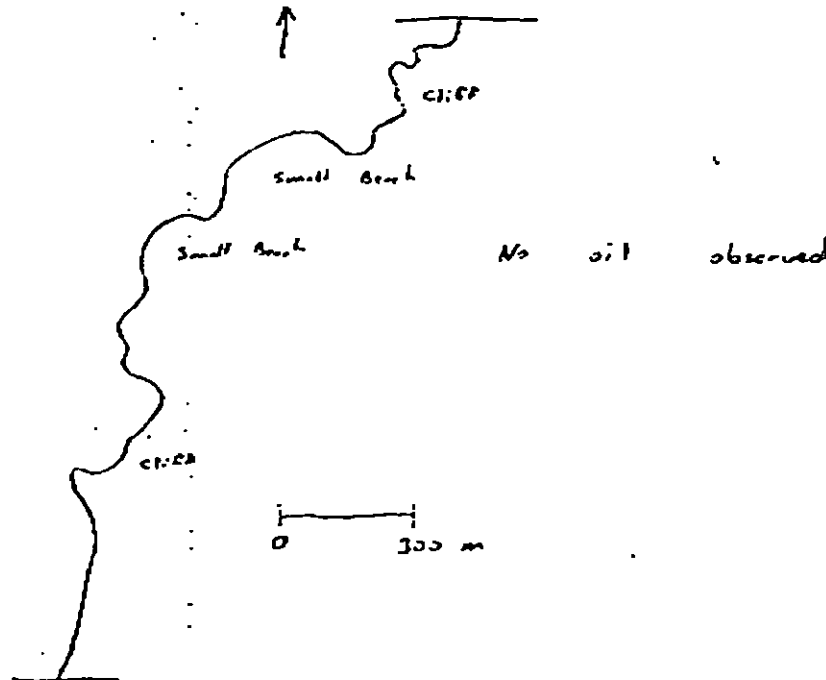
CT/S

Splashed Distribution

Oiled Vegetation

1 $\Rightarrow$

Photo location, direction, and number



ECOLOGICAL SUMMARY

REVISION: 03/22/90

Segment ST/ S1-7 Subdivision A Date (mo / day / yr) 4/5/90

Time (24 hr) _____ Biologist _____

- (A) Substrate type and % of segments:
 (1) Bedrock _____ (2) Boulder _____ (3) Cobble _____ (4) Pebble _____ (5) Sand _____ (6) Sm _____
- (B) Overall % cover of biota (% of segment): Dense _____ Moderate _____ Low _____
- (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	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

MYTILUS

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

NOT PRESENT

GASTROPODS

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

NOT PRESENT

FUCUS

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

NOT PRESENT

Wildlife Observations/ General Comments:

Ecological Considerations:

Subdivision inaccessible — no observations

KODIAK ECOLOGICAL CONSTRAINTS

- 1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
 1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
 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 Kotol Bay Hatchery release
 Pink salmon - late May, early June; Chum salmon - June; Sockeye salmon - early July.
- 1H Remote release site
- 1I Gill net area
- 1J Purse seine area
 Mainland, West side Kodiak, Shuyak & Moser/Olga Bay - 6/9 to 10/1.
 East side Kodiak, East side Afognak - 7/4 to 10/1.
- 1K Purse seine hook-off
- 1L Set net sites
 USFWS setnet uplands permit 5/15 to 9/15.
 For Codes 1C through 1L contact ADF&G for specific dates, locations and constraints.
- 2M Herring spawning (4/15 to 6/30)
 Restrict boat traffic to essential minimum. Avoid damage to unrolled intertidal and subtidal algae and seagrass. Contact ADF&G for specific dates and locations.
- 3N, 3P Harbor seal and sea lion pupping (5/10 to 6/30)
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 3O, 3Q Harbor seal and sea lion molting (8/15 to 9/15)
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 5R Seabird colony (5/1 to 8/31)
 Restrict air traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance. Contact ADF&G and USFWS prior to treatment.
- 5S Shorebird/waterfowl concentration (4/1 to 5/15)
 Restrict all activity to essential minimum, especially air traffic.
- 5T All Bald Eagle nests (3/1 to 6/1)
 Active Bald Eagle nests (3/1 to 9/1)
 Restrict air traffic to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates.
- 6U Recreation: Tent sites (6/1 to 9/15)
- 6V Anchorages (6/1 to 9/15)
- 6W Forest Service cabins (6/1 to 9/15)
- 6X Lodge (6/1 to 9/15)
- 6Y Special use destination
- 7Z Subsistence area: Salmon harvesting (6/1 to 9/30)
- 7HH Finfish harvesting
- 7II Deer harvesting (8/1 to 1/7)
- 7JJ Invertebrate harvesting
- 7KK Bear harvesting (4/1 to 5/15 and 10/25 to 11/30)
 For Codes 7Z through 7JJ contact ADF&G and Chenega Corporation for specific dates, locations, and constraints.

SI-4

SI-6

SI-7

SI-8

A

* see detail map

XXXX Wide

//// Medium

--- Narrow

SI-7

ADEC Segment Length: 5115m

Map Key: KOD-179

Name: Perland

REGION: KODIAK

SEGMENT: K0101 - SI-007

SUBDIVISIONS: B (2 OF 5)

SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-007 SUBDIVISION B (2 OF 5) DATE 4/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Salmon stream mouth - fry outmigration (3/1 to 5/15); Salmon stream mouth spawning (7/10 to 8/31); Sensitive Estuary near segment; land mammals near anadromous stream no. 251-18- ASC#10010.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to unoiled biota and substrate.

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: _____ DATE: _____

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 94 m: V.Light 0 m: No Oil 0 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: ☐ Breakup	☐ Beach Cleaner
☐ Removal	☐ Other (see comments)

COMMENTS: Treat continuous cover and broken coat areas. Work between 5/16 to 7/9.

TAG COMMENTS:

TAG APPROVAL DATE: _____

ADEC _____
EXXON _____
NOAA _____

FOSC: _____ DATE: _____

FIELD SHORELINE COMMENT SHEET

SEGMENT ST/ K0101/S1007 SUBDIVISION: 3 DATE 4-1-90NOAA
3300NAME John Naughton SIGNATURE John J. Naughton☒ NO TREATMENT RECOMMENDED☐ TREATMENT SUGGESTED

COMMENTS

Coating of oil on vertical wall for approximately 100m. and some additional splashes and patches on boulders. However no treatment recommended. Majority of area has not been previously cleaned and has cleaned up naturally to a great degree. Good test site for natural cleaning. In addition, rich biota in lower intertidal (especially dense concentrations of littorine snails) which may be impacted by treatment.

ADEC

NAME Scott Shetter SIGNATURE Scott Shetter☐ NO TREATMENT RECOMMENDED☒ TREATMENT SUGGESTEDCOMMENTS K0101/S1007 Sub. B

K.I.S.C.C. Site. No subsurface oil observed in Pit locations. Patchy, sporadic stain can be found along Supratidal location further in segment boulders. Very little to no oil observed in sediment between cobbles, boulders, and Bedrock. Coat is more than 1mm thick (surface needles can be found attached). COVER AREA oil is weathered and can be removed with some force. This area has cleaned well due to the high energy location N/E & S/E wave exposure. Coat/Cover est. Impact Summit by 11.5 meters

LAND MANAGER

NAME Ray Burger AONR SIGNATURE Ray Burger☐ NO TREATMENT RECOMMENDED☒ TREATMENT SUGGESTED

COMMENTS

KISCC site #4

North facing beach has cover in interstitial space of cobbles & cracks in boulders
- manual removal by small crew recommended

Vertical faces with coat survived winter storms / therefore manual removal recommended

Area considered for Shuyak State Park addition.

Deer scat plentiful in uplands

SHORELINE OILING SUMMARY

REVISION NO. 02/22/90

OG Penland ~~NAAA~~ Naughton SEGMENT ST/ KO101/S1007
 BIO Spight LAND REP Bryson ADNR SUBDIVISION 0
 EXXON Byers ADEC Shelton TIME 11:05 10:12 45
 TEAM NO. 19 TIDE LEVEL: +2.5 ft 10 0 ft DATE 4 / 1 / 90
 EST. SUBDIVISION LENGTH: 200 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: S 10 N
 SURFACE SEDIMENTS: R 20 % S 30 % C 30 % P 10 % G 10 % S 0 % M 0 % V 10 %
 SLOPE: Lang 30 % Hang 30 % Vert 42 % WAVE EXPOSURE: ☐ Low ☐ Med ☒ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 200 m VL 0 m NO 0 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	IC	IB	IF	IR	OR	OC	OL	OF	OB	OT	OL	OT	SU	U	M	U
ASPHALT PAVEMENT																
POOLED																
COVER	X				X				X						X	
COAT		X				X				X					X	
STAIN			X			X				X					X	
MOUSSE																
FATTIES																
TARBALLS																
FILM																
NO OIL																X

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

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

DEBRIS COLLECTED

☐ YES ☒ NOTYPE N/A#BAGS N/A

Photographs:

Roll No. 19-3Frames 11-18

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CH)	REFLOW		OIL / FILM COLOR								PIT ZONE				A N A	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UO	UC	OR	OC	OL	OF	OB	OT	OL	OT	SU	U	M	U		
1	30					X	.											X					cobble, pebble
2	30					X	.												X				cobble, pebble
3	30					X	.													X			cobble, pebble
							.																
							.																
							.																

COMMENTS

- oil occurs in 1.5m mid to upper intertidal band (continuous and broken)
- oil splashes are patchy in the supratidal zone.
- no oil is found in the cobble + rubble
- this is the KISCC site

OG Pest

SEGMENT K0101/S1007

SUBDIVISION B

DATE 4 / 1 90

CHECKLIST

- ☒ N Arrow
- ☒ Approx. Scale
- ☒ Seg/Sub Bndry
- ☒ Oil Dist.
- ☒ Width
- ☒ Length
- ☒ % Cover
- ☒ Substrate Character
- ☒ Est. HAV/LAVL
- ☒ SSI
- ☒ Profile Location(s)
- ☒ Profile(s)
- ☒ Pit Location(s)
- ☒ Photo Location(s)

LEGEND

1 Δ
Pit - No Subsurface Oil

2 Δ
Pit - Subsurface Oil

CT/C
Continuous Distribution

CT/B
Broken Distribution

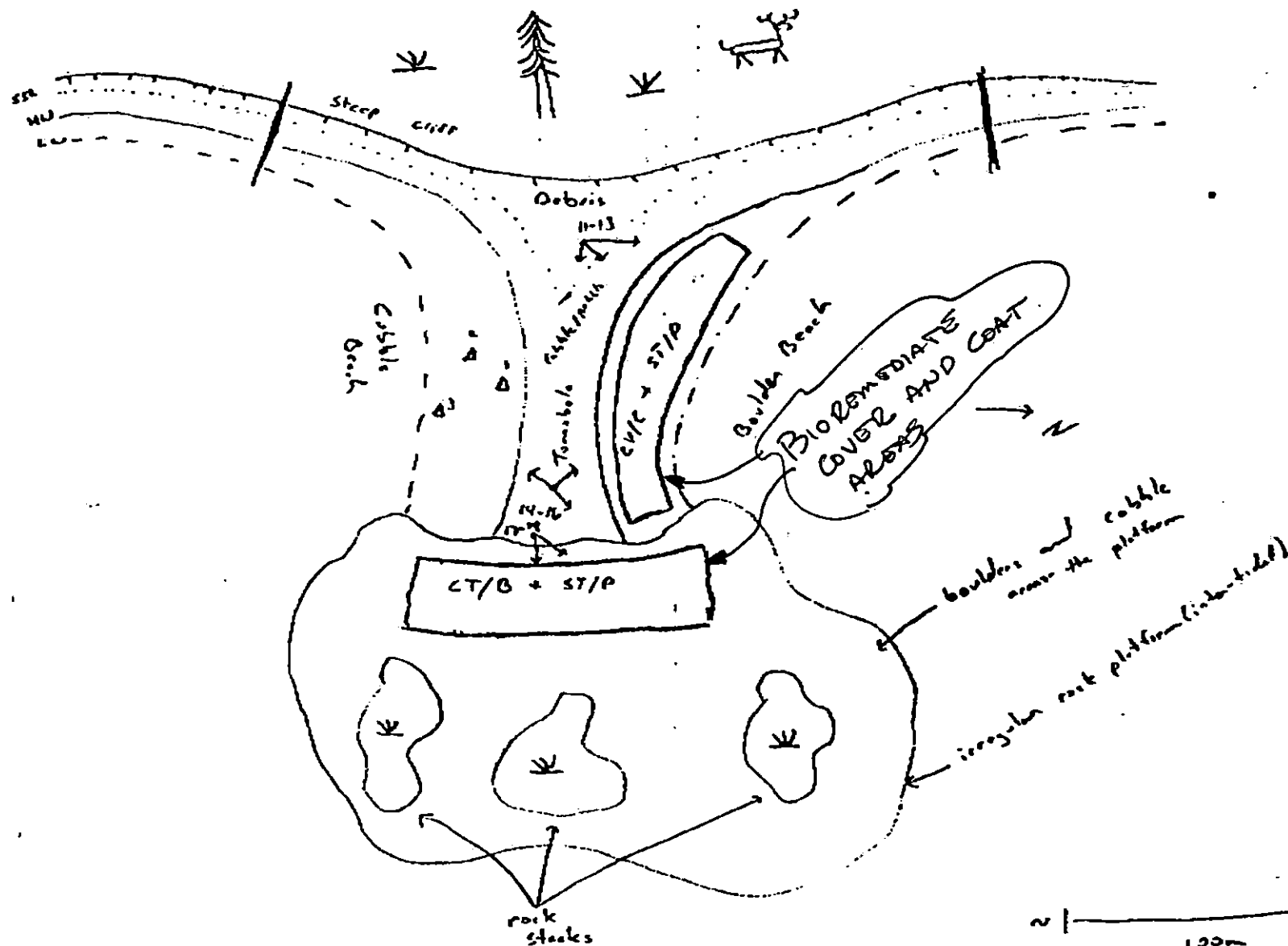
[CT/P]
Patchy Distribution

[CT/S]
Sprinkled Distribution

Oil Vegetation

1 →
Photo location, direction, and number

ETCH MAP



Oil Character Length (m): AP 0 PO 0 CV 100 CT 100 ST 200 MS 0 PT 0 TB 0 FL 0 NO 0

REVISION: 01/24/98

SHORELINE ECOLOGICAL SUMMARY

REVISION: 02/22/90

Segment ST/ SI-7 Subdivision B Date (mo / day / yr) 4 / 1 / 90Time (24 hr) 11:46 Biologist SPIGHT(A) Substrate type and % of segments:
(1) Bedrock 60 (2) Boulder 0 (3) Cobble 0 (4) Pebble 0 (5) Sand 0 (6) Silt 0(B) Overall % cover of biota (% of segment): Dense 30 Moderate 30 Low 40(C) Density, substrate preference (by number from A, above), & vertical zonation of major taxa: (upper-U; mid-M; low tidal-L):
juveniles / adults (X), new settlement (3)Photographs:
Roll No. _____

Frames _____

BARNACLES

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

NOT PRESENT

MYTILUS

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

NOT PRESENT

GASTROPODS

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

NOT PRESENT

FUCUS

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

NOT PRESENT

Wildlife Observations/ General Comments:

Sensitivities 1A, 1B, 9AA → not at this site.
9LM

Ecological Considerations:

Fucus locally dense on mid-level boulders
Some Kelp offshore
Bedrock pools with 1000s of large Littorines

SI-4

SI-6

SI-7

SI-8

A

* see detail map

XXXX Wide
//// Medium
--- Narrow

SI-7

ADEC Segment Length: 5115m

Map Key: KOD-179

Name: Perland

REGION: KODIAK

SEGMENT: K0101 - SI-007

SUBDIVISIONS: C (3 OF 5)

SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-007 SUBDIVISION C (3 OF 5) DATE 3/31/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Salmon stream outmigration (1A) - 3/1 to 5/15; Salmon stream mouth spawning (1B) - 7/10 to 8/31. No disturbance of stream bed or banks unless authorized by ADF&G Habitat Division prior to treatment for permits. Sensitive estuary, ASC# 256-40, #10010.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to unoiled biota and substrate.

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 0 m: No Oil 810* m
Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

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

COMMENTS: No computer map data, OG estimate used.

TAG COMMENTS:

TAG APPROVAL DATE: _____

ADEC _____

EXXON _____

NOAA _____

USCG _____

FOSC: _____ DATE: _____

FIELD SHORELINE COMMENT SHEET

SEGMENT ST/ K0101 SUBDIVISION: C DATE 3-31-90NAME John NaughtonSIGNATURE John Naughton☒ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTED

No oil observed.

ADEC
NAMEScott Shelton

SIGNATURE

Scott Shelton☒ NO TREATMENT RECOMMENDED☐ TREATMENT SUGGESTED

COMMENTS

K0101 - SI007 - Sub. C
High energy shoreline. Access limited
No oil observed - Helicopter Fly by.
Rocky shore NO beach ACCESS STEEP CLIFFS.

LAND MANAGER

NAME

Ray Burger ADNR

SIGNATURE

Ray Burger☐ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTED

Steep bluffs/access limited/no assessment

~~Green high energy zone~~

Area considered for Shuyak State Park addition

Bench at south end of this subd. was walked with no oil observed.

NOAA

OG Penland 0006 Neighborhood SEGMENT ST/ K2101 / S1207
 BIO spighi LAND REP Burya ADNR SUBDIVISION C
 EXXON Arms ADEC Shelton TIME 2:25 10 3:05
 TEAM NO.: 19 TIDE LEVEL: -2 ft to +3 ft DATE 3/31/90
 EST. SUBDIVISION LENGTH: 450 m 900 ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☐ Foot ☐ Boat ☒ Helo WORKING DIRECTION: 11 to 5
 SURFACE SEDIMENTS: R 20 % B 20 % C 20 % P 20 % G 20 % S 0 % M 0 % V 0 %
 SLOPE: Lang 20 % Hang 40 % Vert 40 % WAVE EXPOSURE: ☐ Low ☐ Med ☒ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 0 m NO 900 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	CC	BB	PP	RR	50L BR	DR	FW	OL	50L TL	DR	TL	LR	SU	UI	MI	U
ASPHALT																
PAVEMENT																
POOLED																
COVER																
COAT																
STAIN																
MOUSSE																
PATTIES																
TARBALLS																
FILM																
NO OIL																

PAVEMENT: H F S N/A sq. m by N/A cm

PATTIES / TARBALLS N/A 2 BAGS

NEAR SHORE SHEEN? ☒ NO BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

DEBRIS COLLECTED

☐ YES ☒ NO

TYPE N/A

#BAGS N/A

Photographs:

Roll No. —

Frames —

SUBSURFACE OIL

No Pits Dug

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CL)	BELOW		OIL / FILM COLOR								PIT ZONE				A N A	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		VO	UC	50L BR	DR	FW	OL	50L TL	DR	TL	LR	SU	UI	MI	U		
0																							

COMMENTS

No Pits Dug, helicopter fly by.

OX: Penland

SEGMENT 1 / K210 / SI 007

SUBDIVISION C

DATE 3 / 31 90

CHECKLIST

- ☒ H Arrow
- ☒ Approx. Soil
- ☒ Seg/Sub Bdry
- ☒ Off Dist
- ☒ Width
- ☒ Length
- ☒ % Cover
- ☒ Substrate Character
- ☒ [d, f, w, l, p, t]
- ☒ SSI
- ☒ Profile Location(s)
- ☒ Profile(s)
- ☒ Pit Location(s)
- ☒ Photo Location(s)

LEGEND

1 ▲

Pit - No Subsurface Off

2 ▲

Pit - Subsurface Off

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

Splashed Distribution

Other Vegetation

1 ●→

Photo location, direction,
and number

SKETCH MAP

↑ N

CL:CF

0 300 m

Character Length (m): AP 0 PO 0 CV 0 CT 0 ST 0 MS 0 PT 0 TB 0 FL 0 NO 450 900

REVISION: 03/24/90

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22/90

Segment ST / SI-7 Subdivision C Date (mo / day / yr) 4/5/90

Time (24 hr) _____ Biologist _____

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

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

(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	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

MYTILUS

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

NOT PRESENT

GASTROPODS

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

NOT PRESENT

FUCUS

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

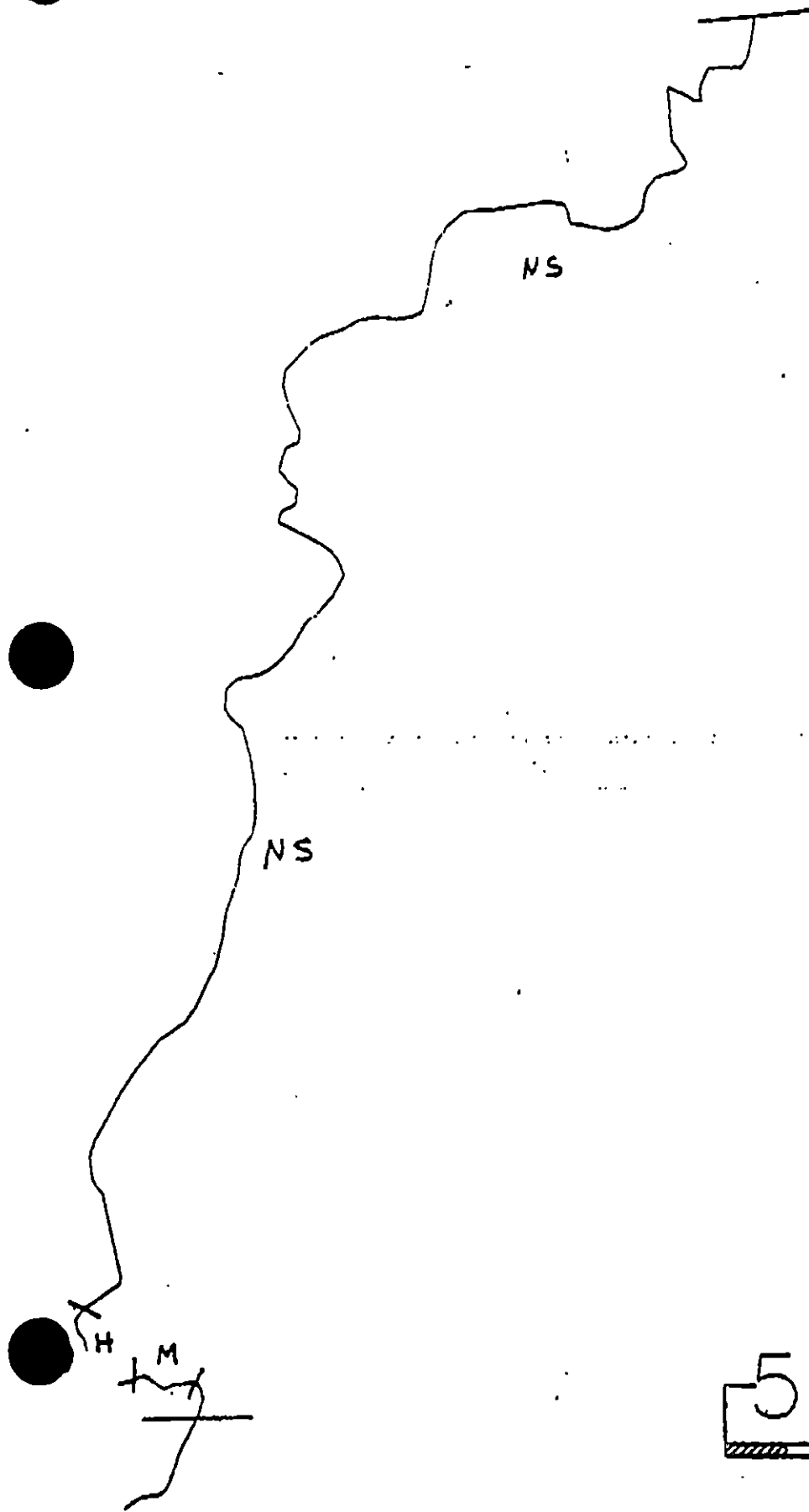
NOT PRESENT

Wildlife Observations/ General Comments:

Ecological Considerations:

Subdivision Inaccessible - no observations

K0101-SI007



500.0

OILING

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

Distance in Meters

ABEC Sep/Oct 1988 Survey

SI-4

SI-6

SI-7

SI-8

A

* see detail map

XXXX Wide

//// Medium

--- Narrow

TTTT Very light

SI-7

ADEC Segment Length: 5115m

Map Key: KOD-179

Name: Perland

Date: 4-1-90



REGION: KODIAK

SEGMENT: K0101 - SI-007

SUBDIVISIONS: D (4 OF 5)

SHORELINE EVALUATION

SEGMENT ST/ K0101-SI-007 SUBDIVISION D (4 OF 5) DATE 4/4/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Sensitive estuary nearby (8AA); Land Mammals present (9LM).

SUBDIVISION ECOLOGICAL CONSTRAINTS: Avoid disturbance/damage to unoiled substrate and biota.

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 91 m: No Oil 0 m
Subsurface Oil Observed: Yes _____ No _____ 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: _____ Breakup	_____ Beach Cleaner
_____ Removal	_____ Other (see comments)

COMMENTS:

TAG COMMENTS:

TAG APPROVAL DATE: _____

ADEC _____

EXXON _____

NOAA _____

USCG _____

FOSC: _____ DATE: _____

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / K021 / SI 027 SUBDIVISION: D DATE 3-31-90

00AA

0000

NAME John Naughton SIGNATURE John Naughton☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED
COMMENTS

small amount of oil on east side of pocket beach.

ADEC

NAME Scott Shelton SIGNATURE Scott Shelton☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED
COMMENTS

2 PITS NO oil observed in surface & subsurface.
Observed. Very light oil in the splash zone can be found in the S/E corner of K0101/SI007 Sub. D. This area of impact could be picked up if work in the beach area segment SI008 is authorized. Sub. D has less than one bag of oiled sediment.

LAND MANAGER

NAME Ray Burger AONR SIGNATURE Ray Burger☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED
COMMENTS

Splashes of cover found at eastern end of beach

-would amount to less than 1 bag but could be worked if crew went to SI00

Much deer sign

Campable/landable by small craft

Area considered for Shuyak State Park addition.

SHORELINE OILING SUMMARY

REVISION NO. 03/22/90

OG Penland NaAA USCG Naughton SEGMENT ST/ K0121/S1007
 BIO Spight LAND REP Burgen SUBDIVISION 0
 EXXON Exxon ADEC Shelton TIME 2:25 10:30:05
 TEAM NO.: 19 TIDE LEVEL: +2 ft 10 + 3 ft DATE 3/31/90
 EST. SUBDIVISION LENGTH: 100 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: S to N
 SURFACE SEDIMENTS: R 20 % B 20 % C 40 % P 20 % G 0 % S 0 % M 0 % V 0 %
 SLOPE: Lang 50 % Hang 30 % Vert 20 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 100 m NO 0 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	IC	OC	PC	SC	BR	OR	OL	OP	NO	CH	CM	CL	SU	UI	MI	U
ASPHALT PAVEMENT																
POOLED																
COVER																
COAT																
STAIN																
MOUSSE																
PATTIES																
TARBALLS																
FILM																
NO OIL																

PAVEMENT: H F S N/A sq. m by N/A cr.PATTIES / TARBALLS N/A ^{Reg} BAGSNEAR SHORE SHEEN? ☒ NO BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

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

Photographs:

Roll No. 19-3Frames 8-9

SUBSURFACE OIL

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		UD	UC	BR	OR	OL	OP	NO	CH	CM	CL	SU	UI	MI	U		
1	30																						cobble / pebble
2	30																						cobble / pebble

COMMENTS

a cover of oil in splash morphology occurs in the eastern side of the pocket beach on the surface of the closest land here.

OG Perched

SEGMENT K0121 / S1007

ETCH MAP

SLBDIVISION D

DATE 3 / 31 / 90

CHECKLIST

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

LEGEND

1 Δ

Pit: No Subsurface Oil

2 $\blacktriangle$

Pit: Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

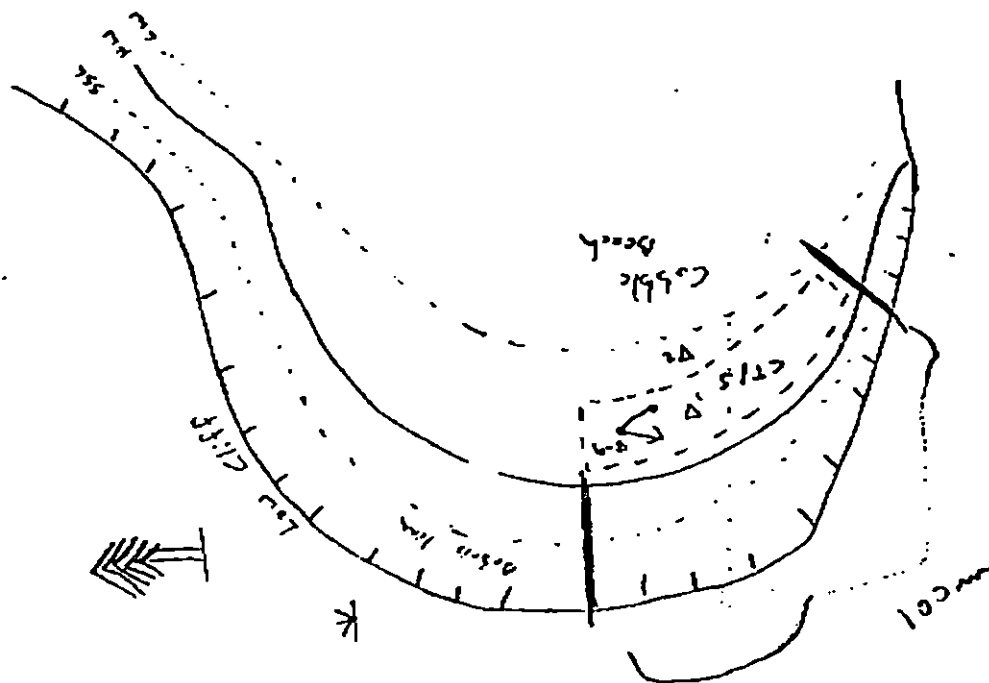
CT/S

Splashed Distribution

Old Vegetation

1 $\Rightarrow$

Photo location, direction,
and number



Oil Character Length (m): AP 0 PO 0 CV 0 CT 100 ST 0 MS 0 PT 0 TB 0 FL 0 NO 0

REVISION: 0324/90

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22/90

Segment ST / SI-7 Subdivision D Date (mo / day / yr) 3 / 31 / 90Time (24 hr) 2:24 Biologist SP16HT(A) Substrate type and % of segments:
(1) Bedrock _____ (2) Boulder 50 (3) Cobble 50 (4) Pebble _____ (5) Sand _____ (6) Silt _____(B) Overall % cover of biota (% of segment): Dense 30 Moderate 30 Low 30

(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	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

MYTILUS

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

NOT PRESENT

GASTROPODS

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

NOT PRESENT

FUCUS

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

NOT PRESENT

Wildlife Observations/ General Comments:

Probable Anadromous stream 1A, 1B, 8AA, 9LM

STREAM ID 251-81 ASC# 10010 ← This stream is in 51-008 am

Ecological Considerations: Too late for Low level

Mid level dense algal community, lots of Fucus, Littorina; Barnacles where algal is not growing.

Upper level = reppening of Chthamalus

Very dense Kelp litter

SI-4

SI-6

SI-7

SI-8

A

* see detail map

XXXX Wide

//// Medium

--- Narrow

SI-7

ADEC Segment Length: 5115m

Map Key: KOD-179

Name: Perland

REGION: KODIAK

SEGMENT: K01-01-SI-007

SUBDIVISIONS: E (5 OF 5)

SHORELINE EVALUATION

SEGMENT ST/K0101-SI-007 SUBDIVISION E (5 OF 5) DATE 3/31/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Salmon stream outmigration (1A) - 3/1 to 3/15 and spawning (1B) - 7/10 to 8/31, ASC# 256-40, #10010. No disturbance of stream bed or banks unless authorized by ADF&G. Contact ADF&G Habitat Division prior to cleanup for permits. Sensitive estuary.

SUBDIVISION ECOLOGICAL CONSTRAINTS: Avoid disturbance/damage to uncoiled substrate and biota.

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 0 m: No Oil 96 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: _____ Breakup	_____ Beach Cleaner
_____ Removal	_____ Other (see comments)

COMMENTS:

TAG COMMENTS:

TAG APPROVAL DATE: _____

ADEC _____

EXXON _____

NOAA _____

USCG _____

FOSC: _____ DATE: _____

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / K0101 / ST 007 SUBDIVISION: E DATE 3-31-90ADEC
0566NAME John Naughton SIGNATURE John J. Naughton☒ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTEDNo oil observed.

ADEC

NAME Scott Shelton SIGNATURE Scott Shelton☒ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTEDHelicopter flyby NO oil observed. Steep cliff area NO access from helicopter set down locations.

LAND MANAGER

NAME Ray Burger ADEC SIGNATURE Ray Burger☐ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTEDCliffs yield no access / no assessment
Area considered for Shuyak State Park addition.

NAAA

OG Penland 8906 Marshall SEGMENT ST/ K2101/37.007
 BIO Spight LAND REP Burgen ADNR SUBDIVISION E
 EXXON Byers ADEC Shelton TIME 2:25 to 3:05
 TEAM NO.: 19 TIDE LEVEL: *2.4 to *3.4 DATE 3/21/90
 EST. SUBDIVISION LENGTH: 100 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☐ Foot ☐ Boat ☒ Helo WORKING DIRECTION: N to S
 SURFACE SEDIMENTS: R 20 % B 20 % C 20 % P 20 % G 20 % S 0 % M 0 % V 0 %
 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 0 m NO 100 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR							IMPACTED ZONES			
	0	1	2	3	SB BR	OR FW	GY SL	DBR TL	LB	SU	U	M	U		
ASPHALT															
PAVEMENT															
POOLED															
COVER															
COAT															
STAIN															
MOUSSE															
PATTIES															
TARBALLS															
FILM															
NO OIL															

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

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

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

Photographs:

Roll No. —Frames —

SUBSURFACE OIL

No Pits Dug

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CM)	DELOW		OIL / FILM COLOR								PIT ZONE				A N A	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		VO	UC	SL	BR	OR	OW	GY	SL	DBR	TL	LB	SU	U	M	U	
<u>0</u>																							

COMMENTS

No pits dug, helicopter flyby.

OG Pe

SEGMENT STI K0121/SI 007

SUBDIVISION E

DATE 3 / 31 90

CHECKLIST

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

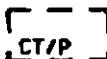
LEGEND

1 
PH - No Subsurface Oil

2 
PH - Subsurface Oil


Continuous Distribution


Broken Distribution


Patchy Distribution


Splashed Distribution

Oiled Vegetation

1 
Photo location, direction,
and number

SKETCH MAP

1 cliff

0 300m

15643771

TO

APR-02-1990 18:40 FROM EXXON KODIAK

Oil Character Length (m): AP 0 PO 0 CV 0 CT 0 ST 0 MS 0 PT 0 TB 0 FL 0 NO 100

REVISION 002400

SHOULINE ECOLOGICAL SUMMARY

REVISION: 00

Segment ST / S1-7 Subdivision E Date (mo / day / yr) 4/5/90

Time (24 hr) _____ Biologist _____

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

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

(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	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESEN

MYTILUS

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

NOT PRESEN

GASTROPODS

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

NOT PRESEN

FUCUS

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

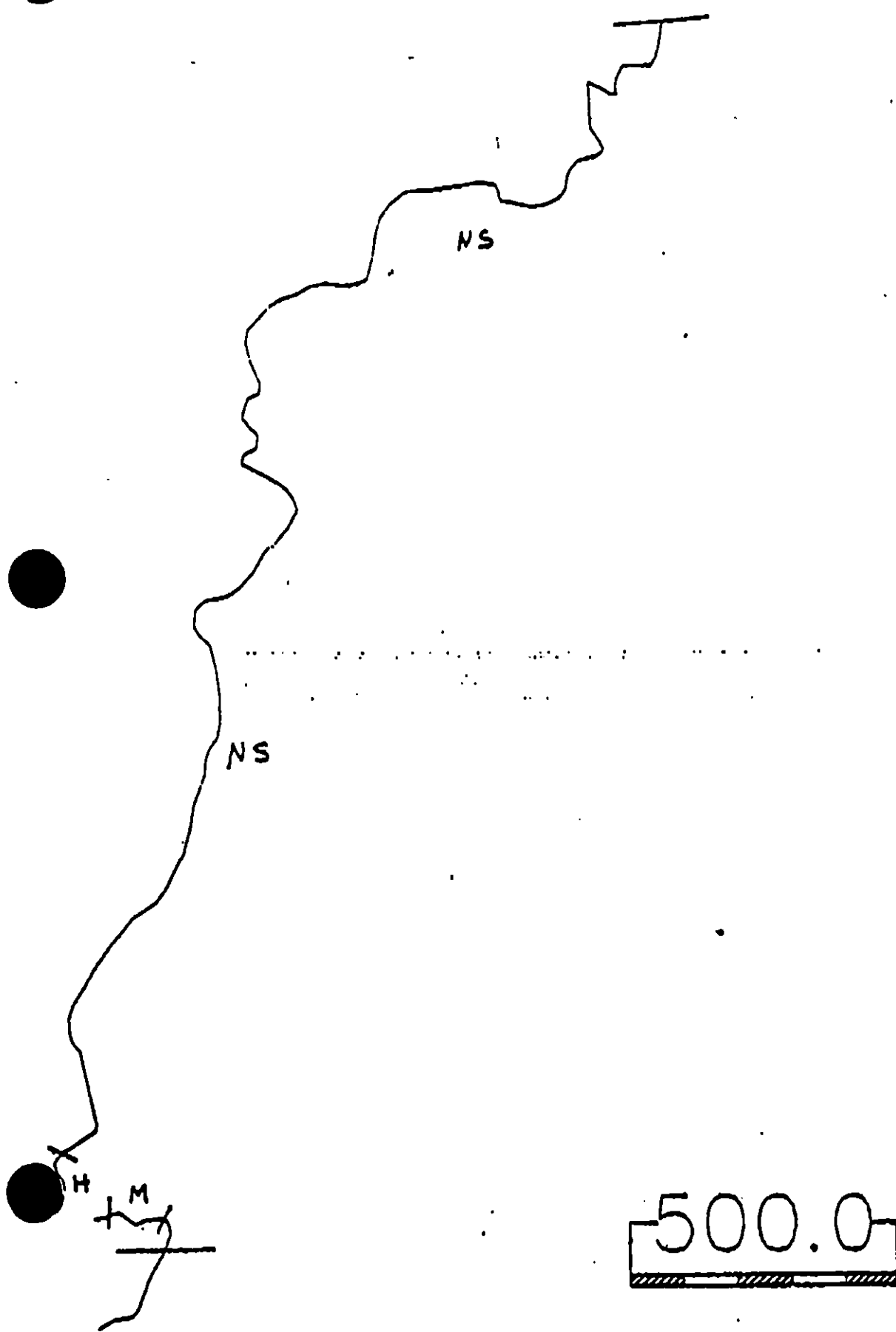
NOT PRESENT

Wildlife Observations/ General Comments:

Ecological Considerations:

Subdivision inaccessible — no observations

K0101-SI007



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

SI-4

SI-6

SI-7

SI-8

A

* see detail map

XXXX Wide

//// Medium

--- Narrow

TTTT Very Light

SI-7

ADEC Segment Length: 5115m

Map Key: KOD-179

Name: Perland

Date: 4-1-90



SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-008 SUBDIVISION A (1 OF 3) DATE 4/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
5T All bald eagle nests (3/1 to 6/1)
Active bald eagle nests (3/1 to 9/1)
8AA Sensitive Estuary

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to unoiled biota and substrate. See attached Ecological Constraint Sheet.

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: Charles E. L. Bruce DATE: 4/20/90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 0 m: No Oil 1173 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

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

COMMENTS:

TAG COMMENTS:

TAG APPROVAL DATE: 4/20/90.
ADEC Art Weiner
EXXON Andy Teitz
NOAA Burt Wescott
USCG Kenneth Keraue

FOSC: ML DATE: 4-26-90

OG Per

SEGMENT 50201/5008

SUBDIVISION A

DATE 4 / 1 / 90

CHECKLIST

- ☒ N Arrow
- ☒ Approx. Scale
- ☒ Seg/Sub Endry
- ☒ Oil Dist.
- ☒ Width
- ☒ Length
- ☒ % Cover
- ☒ Substrate Character
- ☒ Est. HW/LVL
- ☒ SSI
- ☒ Profile Location(s)
- ☒ Profile(s)
- ☒ Pit Location(s)
- ☒ Photo Location(s)

LEGEND

1 Δ

Pit - No Subsurface Oil

2 Δ

Pit - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

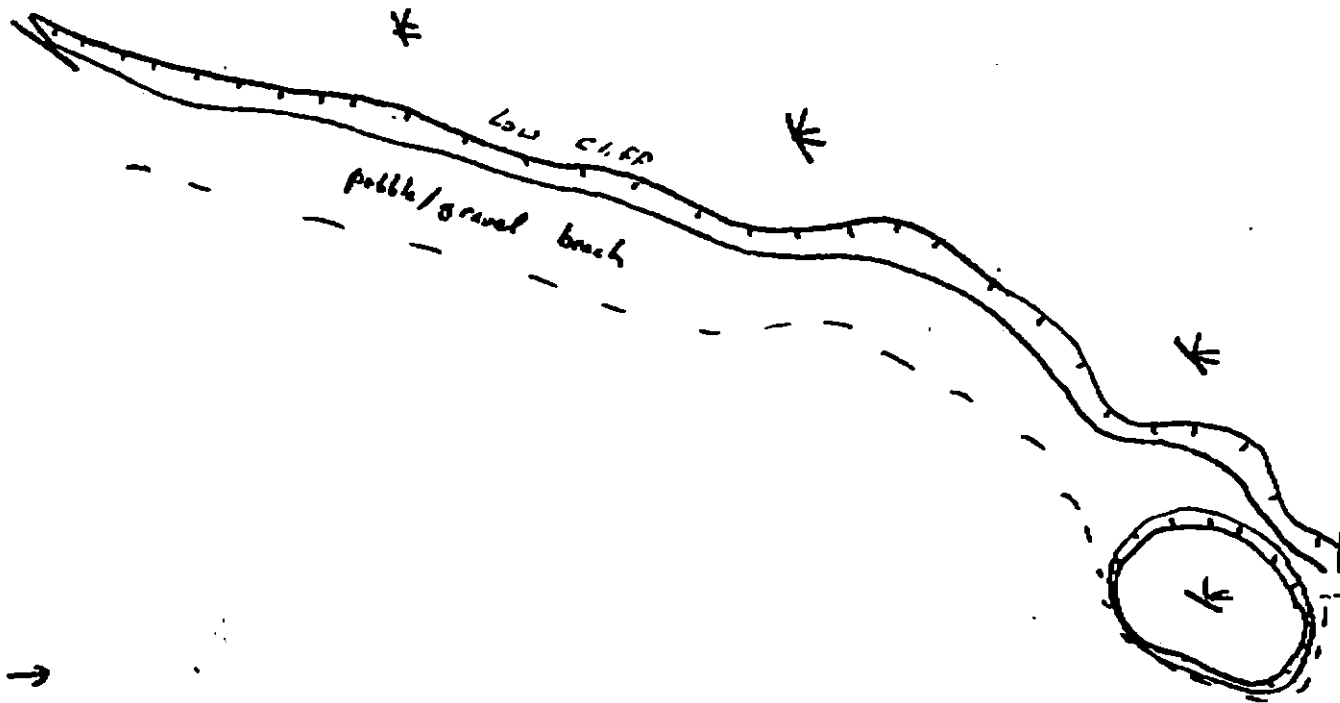
Splashed Distribution

Clad Vegetation

1 $\Rightarrow$

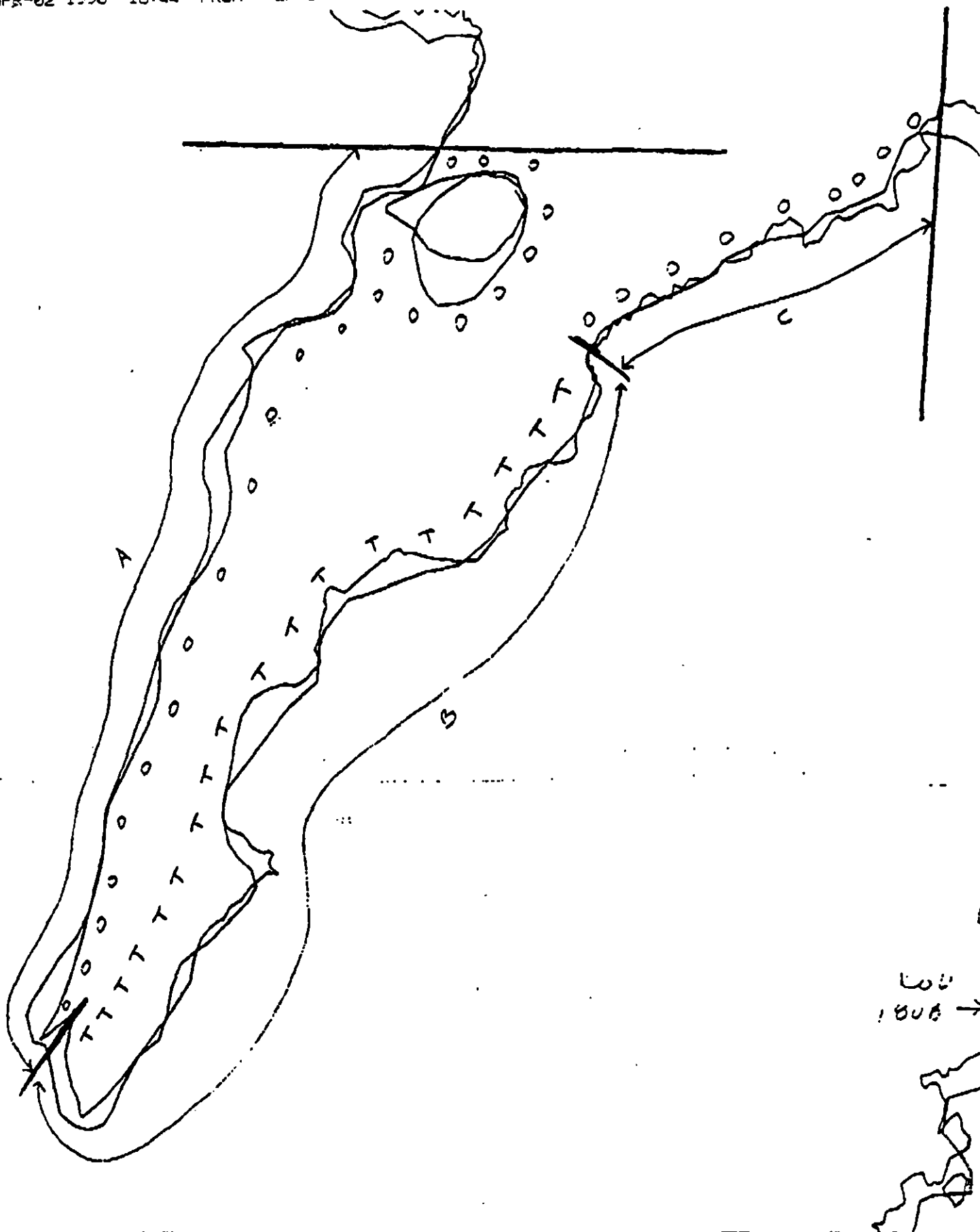
Photo location, direction,
and number

TCH MAP



Oil Character Length (m): AP 0 PO 0 CV 0 CT 0 ST 0 MS 0 PT 0 TB 0 FL 0 NO 1556

REVISION 002/00



XXXX Wide

//// Medium

--- Narrow

TTTT Very Light

OOOO

SI-8

ADEC Segment Length: 3257m

0 100 200 300

Map Key: KOD-180a

Name: Penland

Date: 4-1-90

1800 →

SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-008 SUBDIVISION B (2 OF 3) DATE 4/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
5T All bald eagle nests (3/1 to 6/1)
Active bald eagle nests (3/1 to 9/1)
8AA Sensitive Estuary

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to unopened biota and substrate. See attached Ecological Constraint Sheet.

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: *Charles E. Hume* DATE: *4/20/90*

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 1247 m: No Oil 0 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

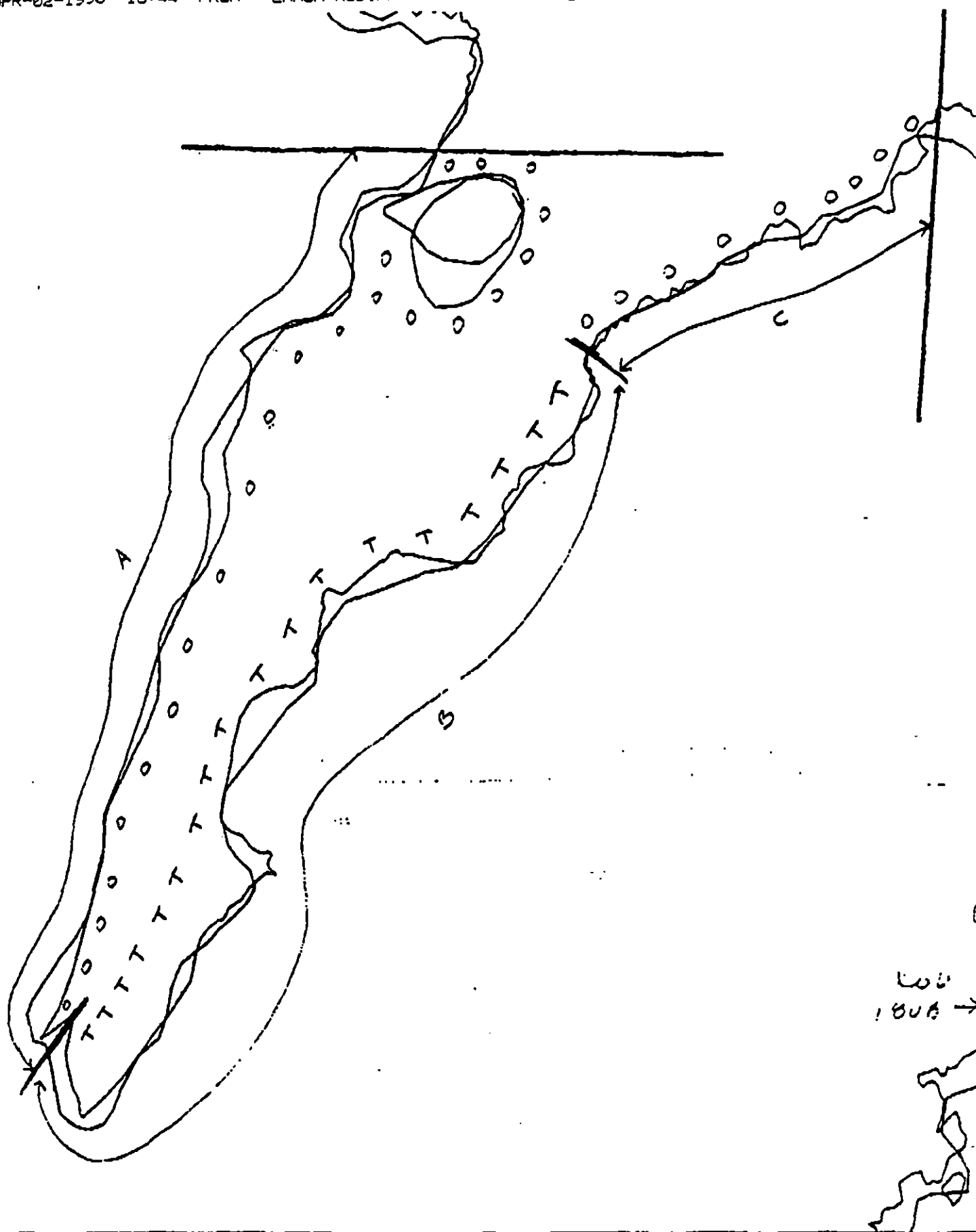
<u>X</u> No Treatment Recommended	_____ Snare/Absorbent Booms
_____ Treatment Recommended	_____ Oil Snares (pom poms)
_____ Manual Pickup	_____ Absorbents (pads, rolls, etc)
_____ Bioremediation	_____ Spot Washing: _____ Wands
_____ Tarmat: _____ Breakup	_____ Beach Cleaner
_____ Removal	_____ other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

COMMENTS:

TAG COMMENTS:

TAG APPROVAL DATE: 4/20/90.
 ADEC ART WEINER Art Wein
 EXXON ANDY TEAL Andy Teal
 NOAA Burl Wescott Burl Wescott
 USCG KENNETH KEANE Kenneth Keane

FOSC: W L DATE: 4-26-90



XXXX Wide

//// Medium

---- Narrow

TTTT Very Light

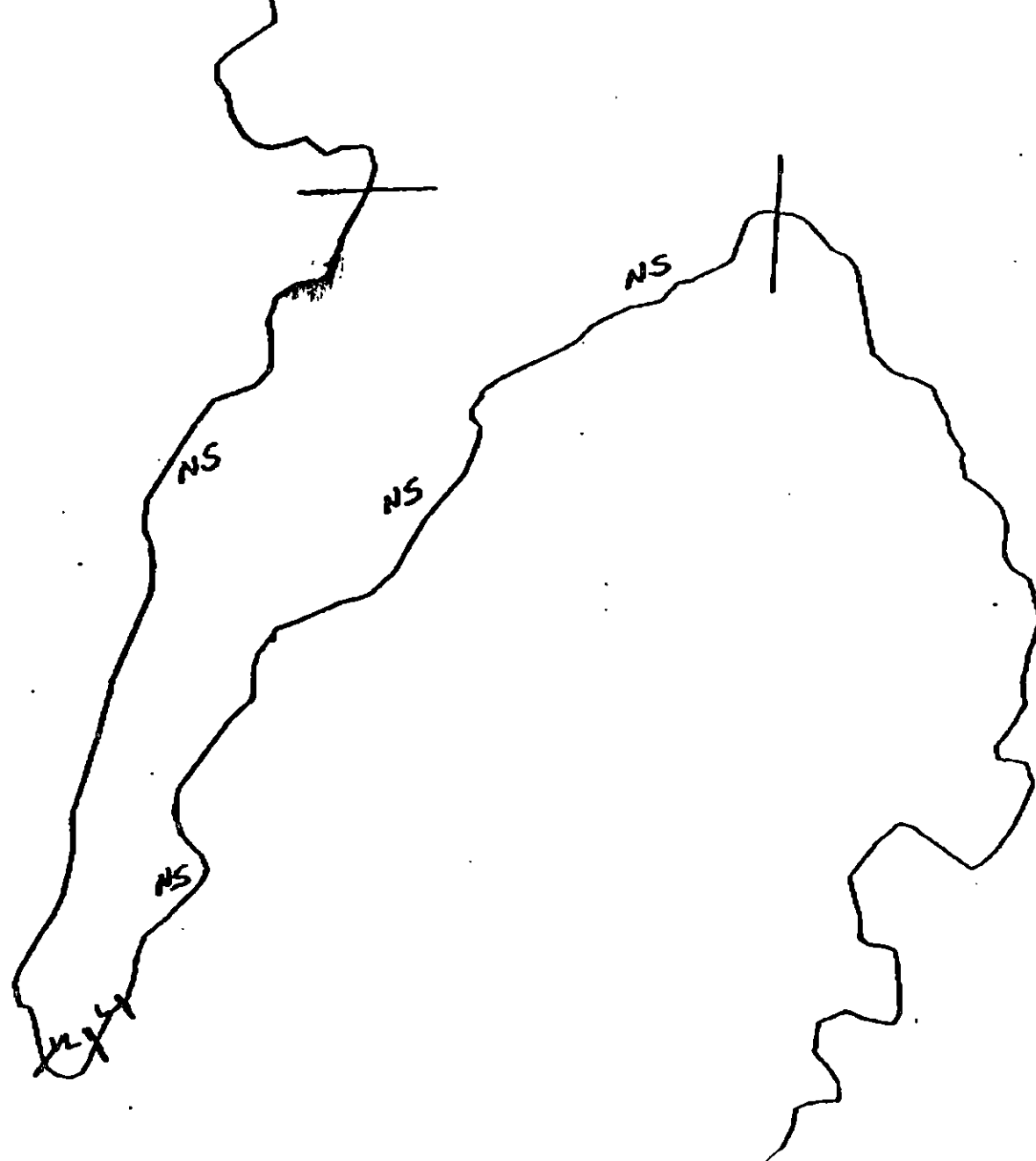
SI-8

ADEC Segment Length: 3257m

Map Key: KOD-180c

Name: PenlandDate: 4-1-90

K0101-S1008



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

500.5

ABEC Sep/Oct 1983 Survey

SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-008 SUBDIVISION C (3 OF 3) DATE 4/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
5T All bald eagle nests (3/1 to 6/1)
Active bald eagle nests (3/1 to 9/1)
8AA Sensitive Estuary

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to unoilied biota and substrate. See attached Ecological Constraint Sheet.

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE *Mark E. H. [Signature]*

DATE: 4/20/90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 0 m: No Oil 486 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: <u> </u> Wands
☐ Tarmat: ☐ Breakup	☐ Beach Cleaner
☐ Removal	☐ Other (see comments)

COMMENTS:

TAG COMMENTS:

TAG APPROVAL DATE: 4/20/90

ADEC Art Weiner
EXXON Andy [Signature]
NOAA Bruce Westcott
USCG Kenneth Keane

FOSC: *[Signature]*

DATE: 4-26-90

OG Kenland

SEGMENT K0121/S1008

SUBDIVISION C

DATE 4 / 1 / 90

SKETCH MAP

CHECKLIST

- ☐ N Arrow
- ☒ Approx. Scale
- ☒ Seg/Sub Bndry
- ☐ Oil Det.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☒ Est. HML/LWL
- ☐ SSL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ Pht Location(s)
- ☐ Photo Location(s)

LEGEND

1 Δ

Pht - No Subsurface Oil

2 Δ

Pht - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

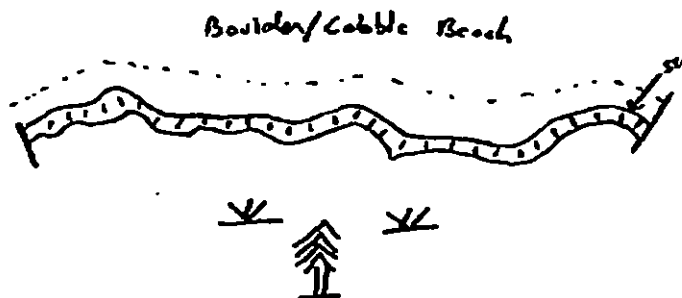
CT/S

Spliced Distribution

Oil'd Vegetation

1 $\Rightarrow$

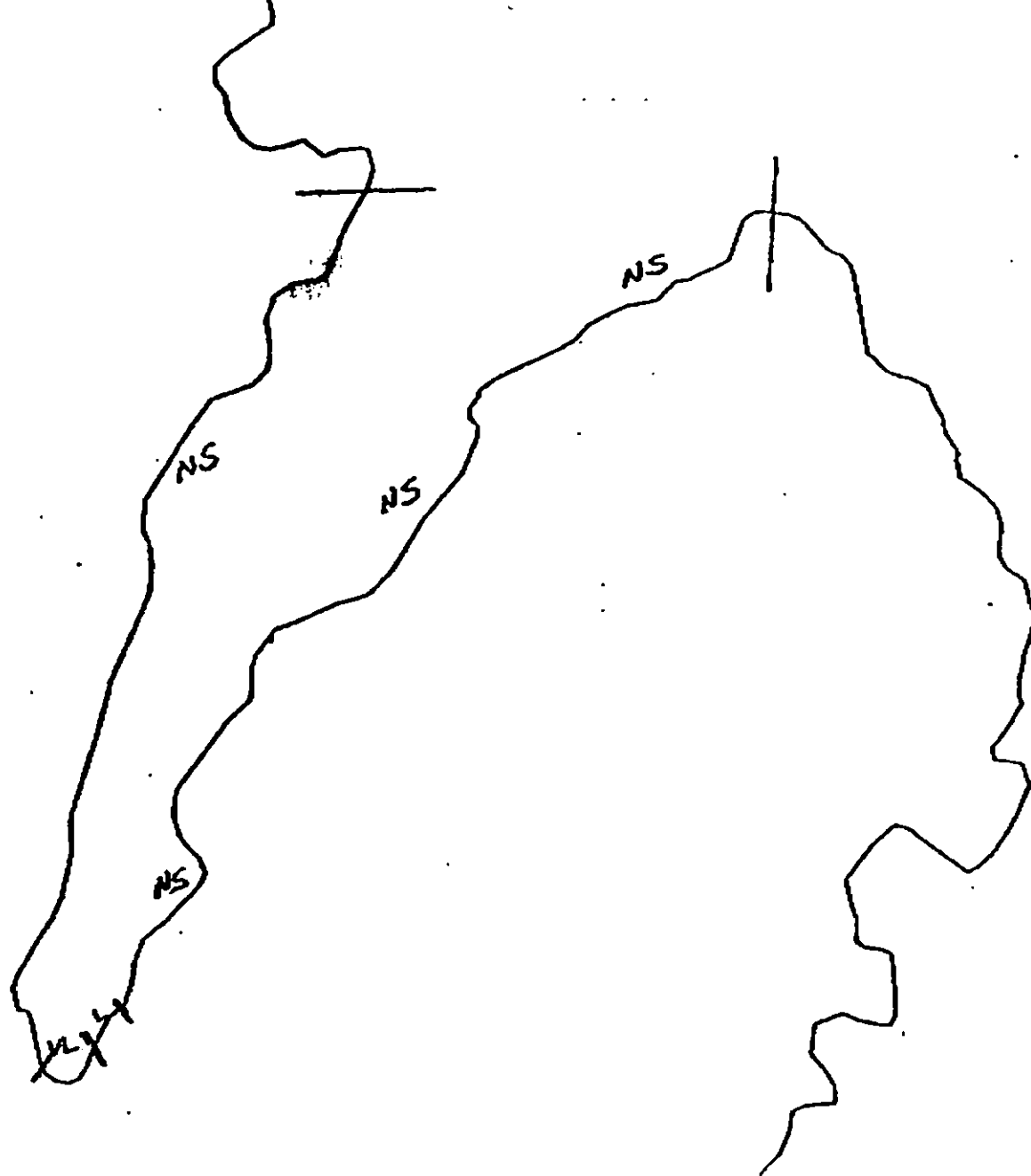
Photo location, direction,
and number



Oil Character Length (m): AP 0 PO 0 CV 0 CT 0 ST 0 MS 0 PT 0 TB 0 FL 0 NO 480

REVISED 08/24/90

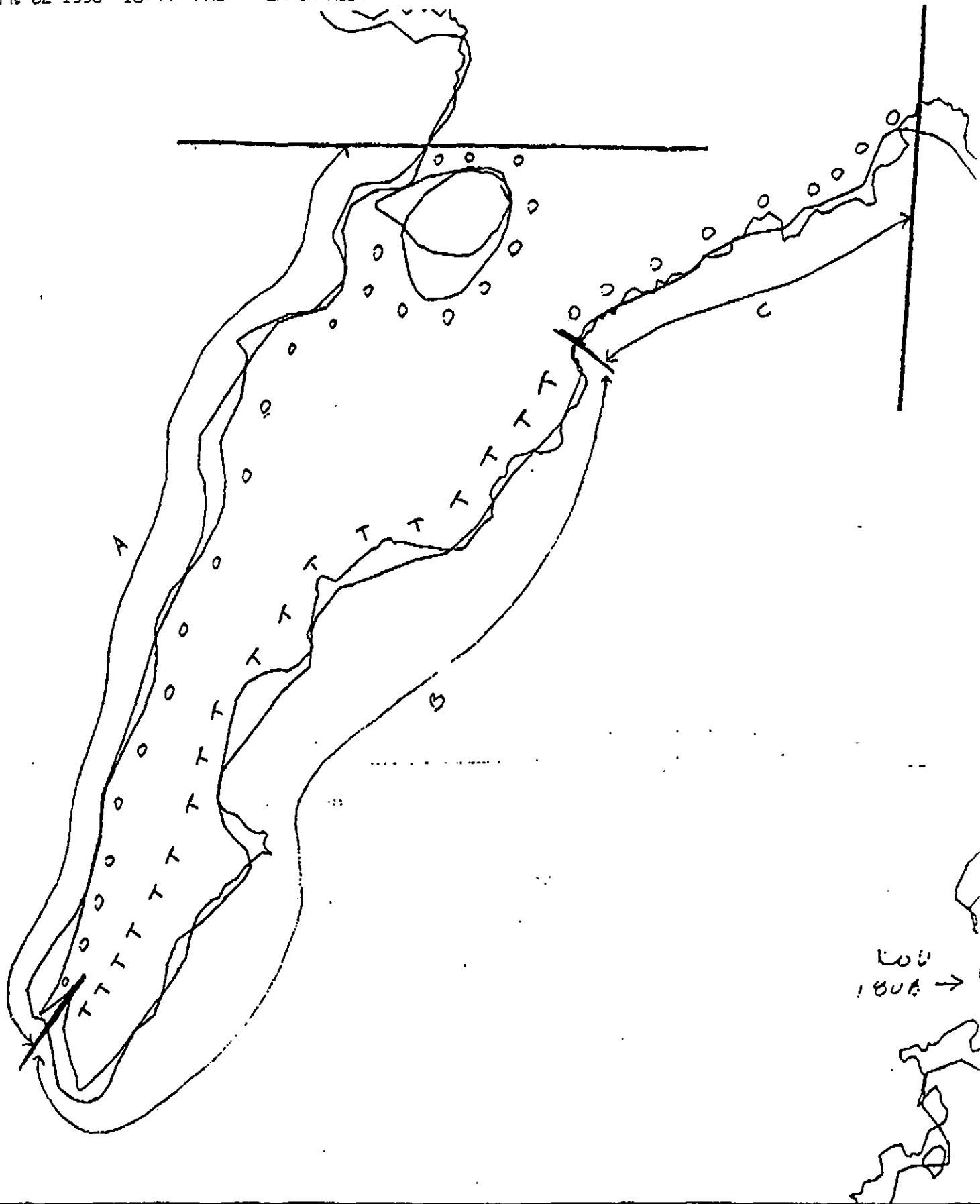
K0101-S1008



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

500.0

ADEC Sep/Oct 1983 Survey



XXXX Wide

//// Medium

---- Narrow

TTTT Very Light

OOOO No Oil

SI-8

ADEC Segment Length: 3257m



Map Key: KOD-180a

Name: PenlandDate: 4-1-90

Data Entered:

REGION: KODIAK

SEGMENT: KO1-01-SI-008

SUBDIVISIONS: A (1 OF 3)

SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-008 SUBDIVISION A (1 OF 3) DATE 4/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
5T All bald eagle nests (3/1 to 6/1)
Active bald eagle nests (3/1 to 9/1)
8AA Sensitive Estuary

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to unoiled biota and substrate. See attached Ecological Constraint Sheet.

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 0 m: No Oil 1173 m
Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

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

COMMENTS:

TAG COMMENTS:

TAG APPROVAL DATE: _____

ADEC _____
EXXON _____
NOAA _____
USCG _____

FOSC: _____ DATE: _____

KODIAK ECOLOGICAL CONSTRAINTS

SI-008-A, B, C

- 1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
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 Kotol Bay Hatchery release
Pink salmon - late May, early June; Chum salmon - June; Sockeye salmon - early July.
- 1H Remote release site
- 1I Gill net area
- 1J Purse seine area
Mainland, West side Kodiak, Shuyak & Moser/Olga Bay - 6/9 to 10/1.
East side Kodiak, East side Afognak - 7/4 to 10/1.
- 1K Purse seine hook-off
- 1L Set net sites
USFWS setnet uplands permit 5/15 to 9/15.
- For Codes 1C through 1L contact ADF&G for specific dates, locations and constraints.
- 2M Herring spawning (4/15 to 6/30)
Restrict boat traffic to essential minimum. Avoid damage to unrolled intertidal and subtidal algae and seagrass. Contact ADF&G for specific dates and locations.
- 3N, 3P Harbor seal and sea lion pupping (5/10 to 6/30)
Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 3O, 3Q Harbor seal and sea lion molting (8/15 to 9/15)
Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 5R Seabird colony (5/1 to 8/31)
Restrict air traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance. Contact ADF&G and USFWS prior to treatment.
- 5S Shorebird/waterfowl concentration (4/1 to 5/15)
Restrict all activity to essential minimum, especially air traffic.
- 5T All Bald Eagle nests (3/1 to 6/1)
Active Bald Eagle nests (3/1 to 9/1)
Restrict air traffic to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates.
- 6U Recreation: Tent sites (6/1 to 9/15)
- 6V Anchorages (6/1 to 9/15)
- 6W Forest Service cabins (6/1 to 9/15)
- 6X Lodge (6/1 to 9/15)
- 6Y Special use destination
- 7Z Subsistence area: Salmon harvesting (6/1 to 9/30)
- 7HH Finfish harvesting
- 7II Deer harvesting (8/1 to 1/7)
- 7JJ Invertebrate harvesting
- 7KK Bear harvesting (4/1 to 5/15 and 10/25 to 11/30)
For Codes 7Z through 7JJ contact ADF&G and Chenega Corporation for specific dates, locations, and constraints.

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / K0101/S1008 SUBDIVISION: A DATE 4-1-90NOAA
USCGNAME John Naughton SIGNATURE John J. Naughton☒ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTEDNo oil observed

ADEC

NAME Scott Shelton SIGNATURE Scott Shelton☒ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTEDBEAR Cove NW side
No oil observed Helicopter fly by
K0101/S1008 Sub-A has been a low priority for agency
concerns. S/E BEAR Cove has more reported impact

LAND MANAGER

NAME Ray Burger AWR SIGNATURE Ray Burger☐ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTEDNot assessed - DEC personnel have been on beach before & not
observed oil given low impact found on subdivision B
& no reported oiling ever on subd. A, team deemed this
low priority for assessment

NOAA

OG Peelard USCG Neughton SEGMENT ST/ Kolo/52008
 BIO Sight LAND REP Guyen ADNR SUBDIVISION 4
 EXXON Byers ADEC Shelden TIME 13:08 10/14/11
 TEAM NO.: 19 TIDE LEVEL: 0 to +1 ft DATE 4 / 1 / 90
 EST. SUBDIVISION LENGTH: 1556 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 PLANDS DESCRIPTION: ☒ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☐ Foot ☐ Boat ☒ Helo WORKING DIRECTION: N to S
 SURFACE SEDIMENTS: R 10 % B 10 % C 20 % P 40 % G 10 % S 10 % M 0 % V 0 %
 SLOPE: Long 60 % Hang 20 % Vert 20 % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 0 m NO 1556 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR					IMPACTED ZONES				
	IC	IS	IP	IS	BR	RW	SL	TL	LR	SU	U	M	U	
ASPHALT														
PAVEMENT														
POOLED														
COVER														
COAT														
STAIN														
MOUSSE														
PATTIES														
TARBALLS														
FILM														
NO OIL										X	X	X	X	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			
Vegetation			
Trash			
Debris			

DEBRIS COLLECTED
☐ YES ☒ NOTYPE 0#BAGS 0

Photographs:

Roll No. -Frames -SUBSURFACE OIL No Pits Dug

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CM)	BELOW		OIL / FILM COLOR					PIT ZONE				A N A	SUBSURFACE SEDIMENTS
		OF	OR	OL	OF	NO		UD	UC	BR	RW	SL	TL	LR	SU	U	M	U		

COMMENTS

• No Pits Dug, surveyed by helicopter.

OG Per

SEGMENT SN K2101/51008

SUBDIVISION A

DATE 4 / 1 90

CHECKLIST

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

LEGEND

1 Δ

Pli - No Subsurface Oil

2 Δ

Pli - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

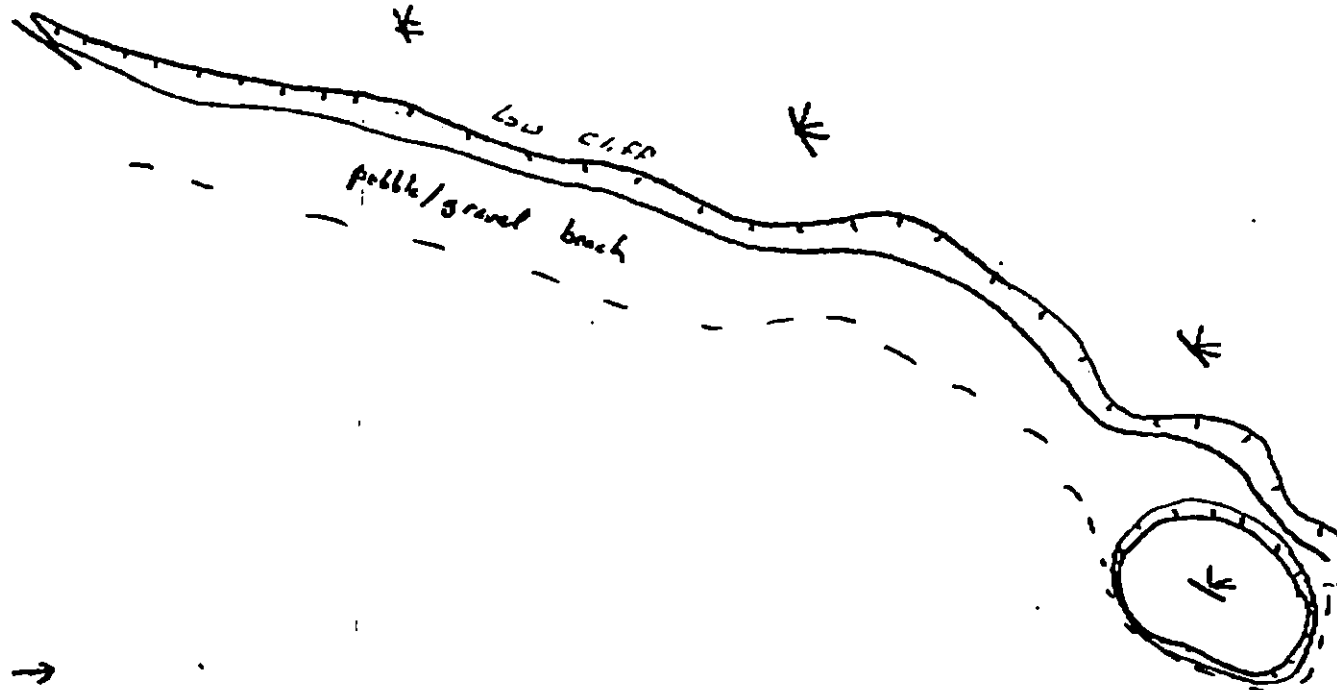
Splashed Distribution

Other Vegetation

1 $\Rightarrow$

Photo location, direction,
and number

TCH MAP



Oil Character Length (m): AP 0 PO 0 CV 0 CT 0 ST 0 MS 0 PT 0 TB 0 FL 0 NO 1556

REVISION: 02/24/88

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22/90

Segment ST / SI-008 Subdivision A Date (mo / day / yr) 4 / 1 / 90

Time (24 hr) _____ Biologist SPIGHT

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

(B) Overall % cover of biota (% of segment): Dense _____ Moderate _____ Low 100

(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. _____
Frames _____

BARNACLES

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

NOT PRESENT

MYTILUS

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

NOT PRESENT

GASTROPODS

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

NOT PRESENT

FUCUS

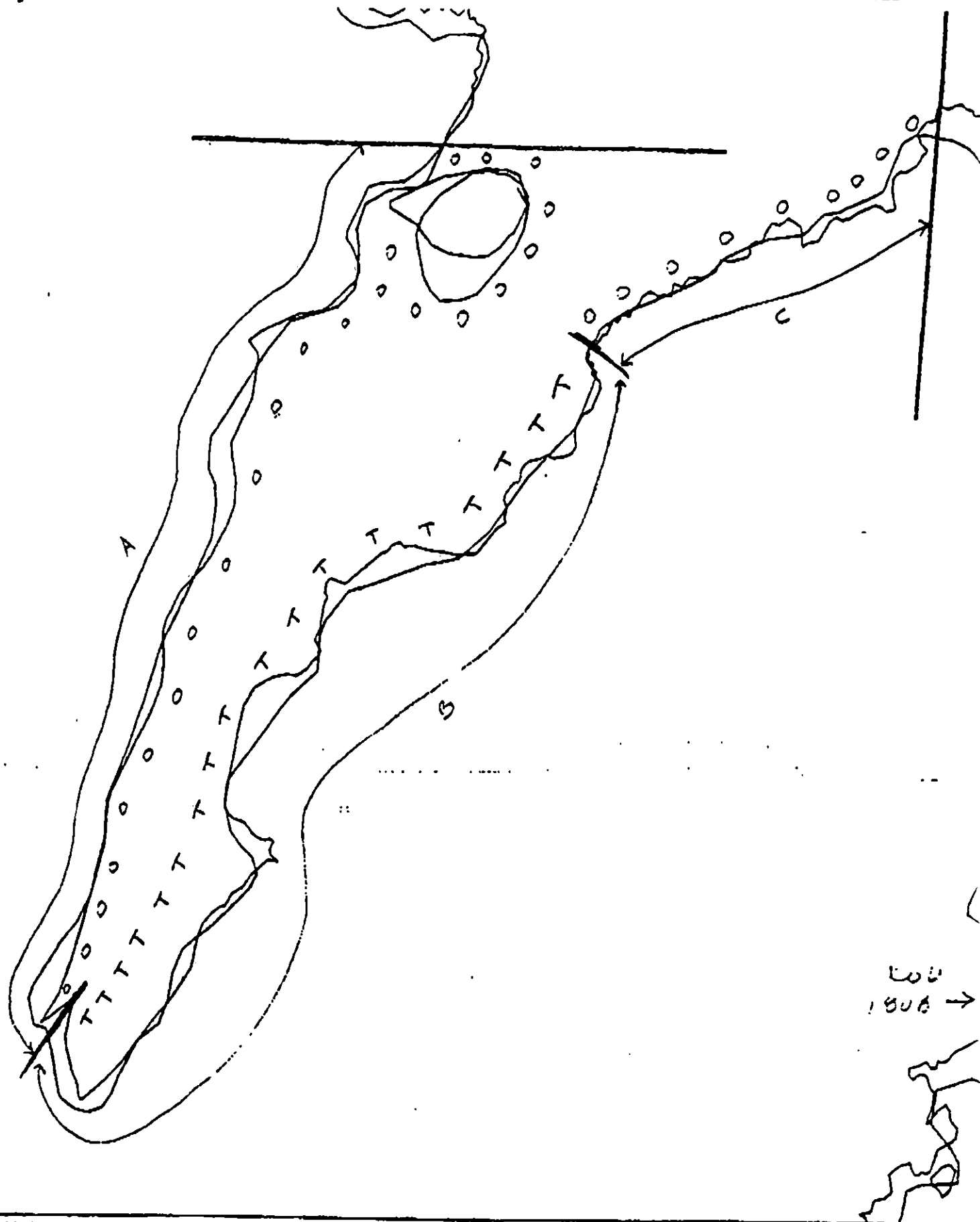
Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

Wildlife Observations/ General Comments:

Ecological Considerations:

Polanus glandula cobble. Barnacles typically dense on individual cobbles but occupied cobbles are scattered, thus overall densities low. Only upper part examined



XXXX Wide

//// Medium

--- Narrow

TTTT Very Light

SI-8

ADEC Segment Length: 3257m

0 100 200 300

Map Key: KOD-180a

Name: Penland

Date: 4-1-90

REGION: KODIAK

SEGMENT: KO1-01-SI-008

SUBDIVISIONS: B (2 OF 3)

SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-008 SUBDIVISION B (2 OF 3) DATE 4/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
5T All bald eagle nests (3/1 to 6/1)
Active bald eagle nests (3/1 to 9/1)
8AA Sensitive Estuary

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to unoiled biota and substrate. See attached Ecological Constraint Sheet.

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 1247 m: No Oil 0 m
Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

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

COMMENTS:

TAG COMMENTS:

TAG APPROVAL DATE: _____

ADEC _____
EXXON _____
NOAA _____
USCG _____

FOSC: _____ DATE: _____

KODIAK ECOLOGICAL CONSTRAINTS

- ~~1A~~ ~~Salmon stream mouth - fry outmigration (4/15 to 7/31)~~
1B ~~Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)~~
 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** **Kotol Bay Hatchery release**
 Pink salmon - late May, early June; Chum salmon - June; Sockeye salmon - early July.
- 1H** **Remote release site**
- 1I** **Gill net area**
- 1J** **Purse seine area**
 Mainland, West side Kodiak, Shuyak & Moser/Olga Bay - 6/9 to 10/1.
 East side Kodiak, East side Afognak - 7/4 to 10/1.
- 1K** **Purse seine hook-off**
- 1L** **Set net sites**
 USFWS setnet uplands permit 5/15 to 9/15.
- For Codes 1C through 1L contact ADF&G for specific dates, locations and constraints.
- 2M** **Herring spawning (4/15 to 6/30)**
 Restrict boat traffic to essential minimum. Avoid damage to unopened intertidal and subtidal algae and seagrass. Contact ADF&G for specific dates and locations.
- 3N, 3P** **Harbor seal and sea lion pupping (5/10 to 6/30)**
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 3O, 3Q** **Harbor seal and sea lion molting (8/15 to 9/15)**
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 5R** **Seabird colony (5/1 to 8/31)**
 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 (6/1 to 9/30)**
- 7HH** **Finfish harvesting**
- 7II** **Deer harvesting (8/1 to 1/7)**
- 7JJ** **Invertebrate harvesting**
- 7KK** **Bear harvesting (4/1 to 5/15 and 10/25 to 11/30)**
 For Codes 7Z through 7JJ contact ADF&G and Chenega Corporation for specific dates, locations, and constraints.

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / K0101 / SI008 SUBDIVISION: B DATE _____NAME John NaughtonSIGNATURE John Naughton☒ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTED

Entire south-east side of Bear Cove walked. Splatters of oil seen throughout area but very patchy in distribution.

NAME Scott SheltonSIGNATURE Scott Shelton☐ NO TREATMENT RECOMMENDED☒ TREATMENT SUGGESTED

COMMENTS

K0101 / SI008, Sub. B
Upper tidal zone oil impact splatters and patches of the remaining oil band in Sub. B. can be found. NO OIL observed in Pits depth 30CM. OCCASSIONAL SPLATTERS. Splatters and dips in the upper tidal zone can be picked up. Warming weather could expose more impact in the impacted cobble boulder tide line areas. TEAMS walked 1000 METERS.

LAND MANAGER

NAME Ray Burger

ADNR

SIGNATURE Ray Burger☐ NO TREATMENT RECOMMENDED
COMMENTS☒ TREATMENT SUGGESTED

Upper tidal area has ^{splashes of} sparse coat that is retrievable.

Area well protected for landing small craft.

Deer tracks + a carcass (unrotted) found @ North end of subdivision

Area considered for addition to Shuyak State Park

SHORELINE OILING SUMMARY

REVISION NO. 03/22/90

OG Penland USCG Naughton SEGMENT ST/ K0101/S1008
 BIO spight LAND REP Bryen ADNR SUBDIVISION 0
 EXXON Dyn ADEC Shelton TIME 13:08 10:14 11
 TEAM NO.: 19 TIDE LEVEL: 0 10 + 1 ft DATE 4 1 1990
 EST. SUBDIVISION LENGTH: 1200 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: S 10 N
 SURFACE SEDIMENTS: R 0 % B 10 % C 20 % P 20 % G 10 % S 20 % M 20 % V 0 %
 SLOPE: Lang 100 % Hang 0 % Vert 0 % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 1200 m NO 0 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	10	15	17	18	20	25	30	35	40	45	50	55	SU	U	M	U
ASPHALT PAVEMENT																
POOLED																
COVER																
COAT																
STAIN																
MOUSSE																
PATTIES																
TARBALLS																
FILM																
NO OIL																

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

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

DEBRIS COLLECTED

☐ YES ☒ NOTYPE 0#BAGS 0

Photographs:

Roll No. 19-3Frames 19-23

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CL)	BELOW		OIL / FILM COLOR								PIT ZONE				A N A	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UO	UO	20	25	30	35	40	45	50	55	SU	U	M	U		
1	30																						pebble/gravel
2	30																						"
3	30																						"
4	30																						"
5	30																						"

COMMENTS

- oil is oil observed in the upper-tidal zone in splashes which coat sediment and rubble at the base of low cliffs
- the west side of Bear Cove not surveyed base of agency concerns that little or no oil has been observed there

DATE 4 / 1 90

CHECKLIST

- ☒ N Arrow
☒ Approx. Scale
 ___ Seg/Sub Boundary
 ___ Off Dist.
 ___ Width
 ___ Length
 ___ % Cover
 ___ Substrate Character
 ___ Est. MYULYML
 ___ SSL
 ___ Profile Location(s)
 ___ Profile(s)
 ___ PR Location(s)
 ___ Photo Location(s)

LEGEND

3 Δ

Ph - No Subsurface Oil

2 ▲

Plt - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

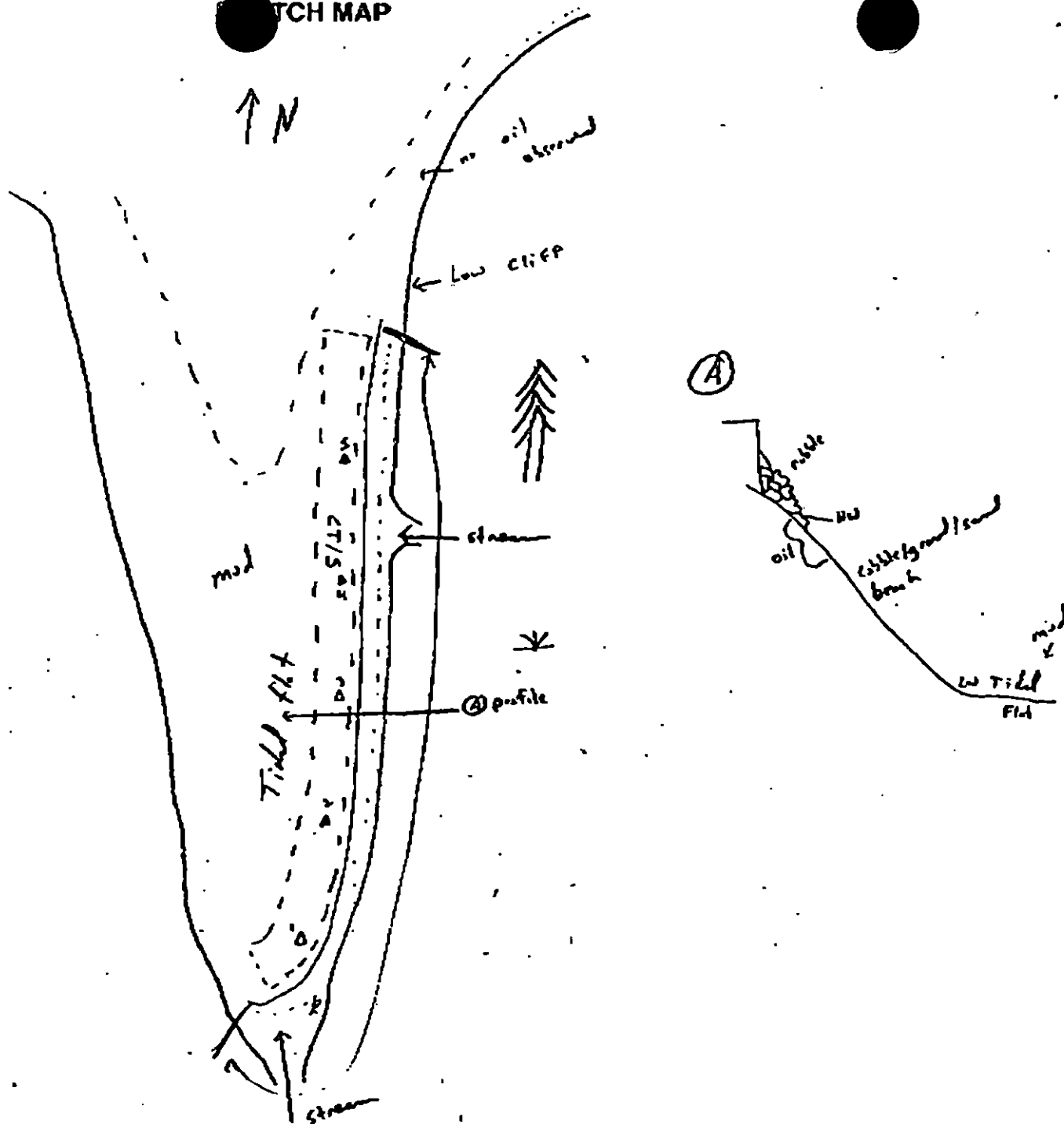
CT/S

Splashed Distribution

Oiled Vegetation

1. **Photo location, direction,
and number**

ATCH MAP



Oil Character Length (m): AP 0 PO 0 CV 0 CT/200 0 ST 0 MS 0 PT 0 TB 0 FL 0 NO 0

NEWTON-BRAND

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22/5

Segment ST / SI-8 Subdivision B Date (mo / day / yr) 4 / 1 / 90
 Time (24 hr) 1:06 Biologist SPIGHT Bear Cove

- (A) Substrate type and % of segments:
 (1) Bedrock 5 (2) Boulder 5 (3) Cobble 10 (4) Pebble 40 (5) Sand 30 (6) Silt 10
- (B) Overall % cover of biota (% of segment): Dense 5 Moderate 5 Low 90
- (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. _____

Frames _____

BARNACLES

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

NOT PRESENT

MYTILUS

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

NOT PRESENT

GASTROPODS

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

NOT PRESENT

FUCUS

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

NOT PRESENT

Wildlife Observations/ General Comments:

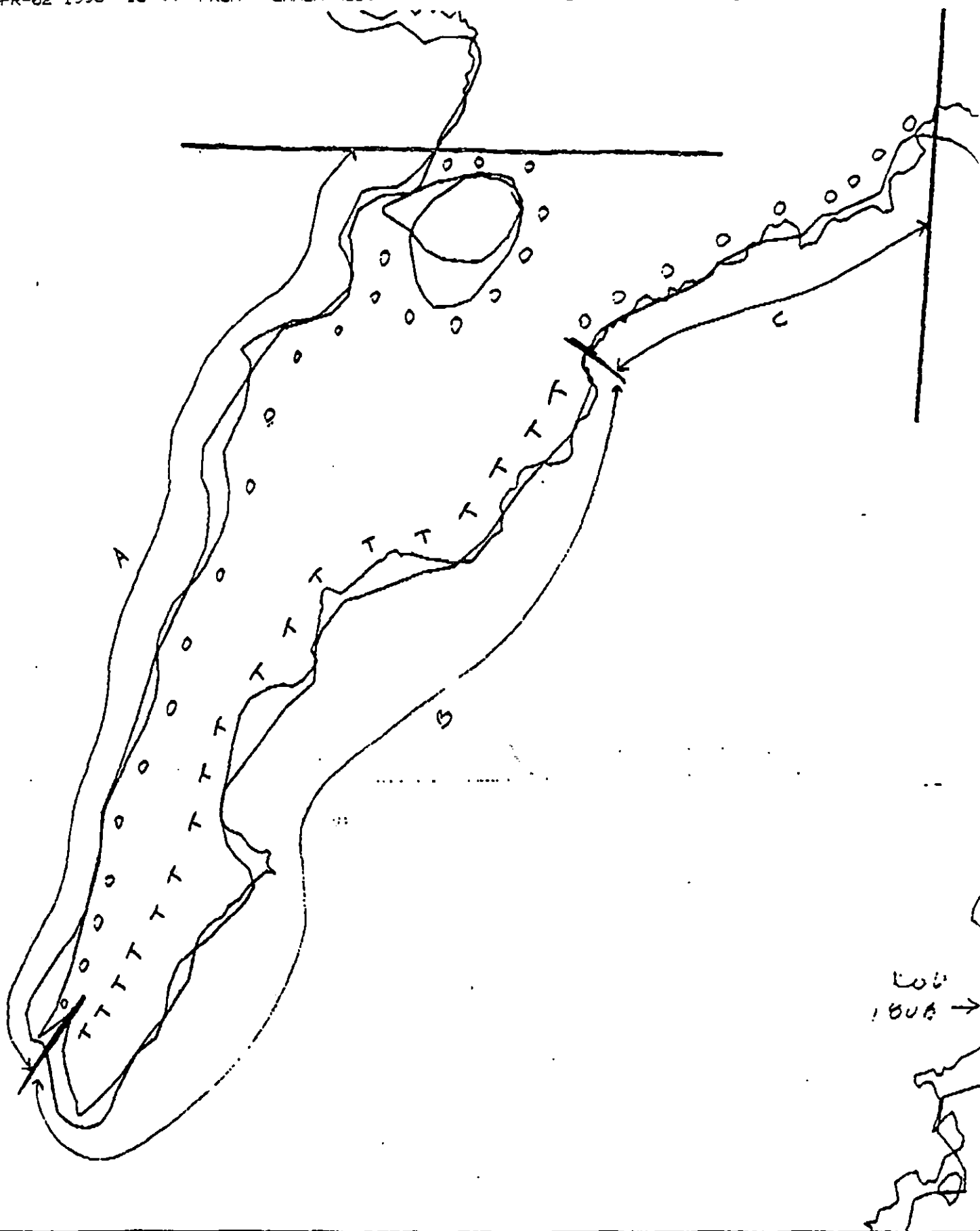
Probable anadromous stream at head of lagoon

Deer signs, remains

Sensitivity 1A, 1B, 8AA

Ecological Considerations:

Typical tidal flat. Sedentary fauna mostly on scattered small cobbles, these usually very densely covered, with barnacles (w/ B. glandula, sometimes Chthamalus). Littorina sparse to very abundant on cobbles, etc., some places on pebble/sand/silt the cobbles are on. Larger cobbles with B. cariosus near mouth of lagoon. Fucus dense in some patches.



XXXX Wide

//// Medium

---- Narrow

TTTT Very Light

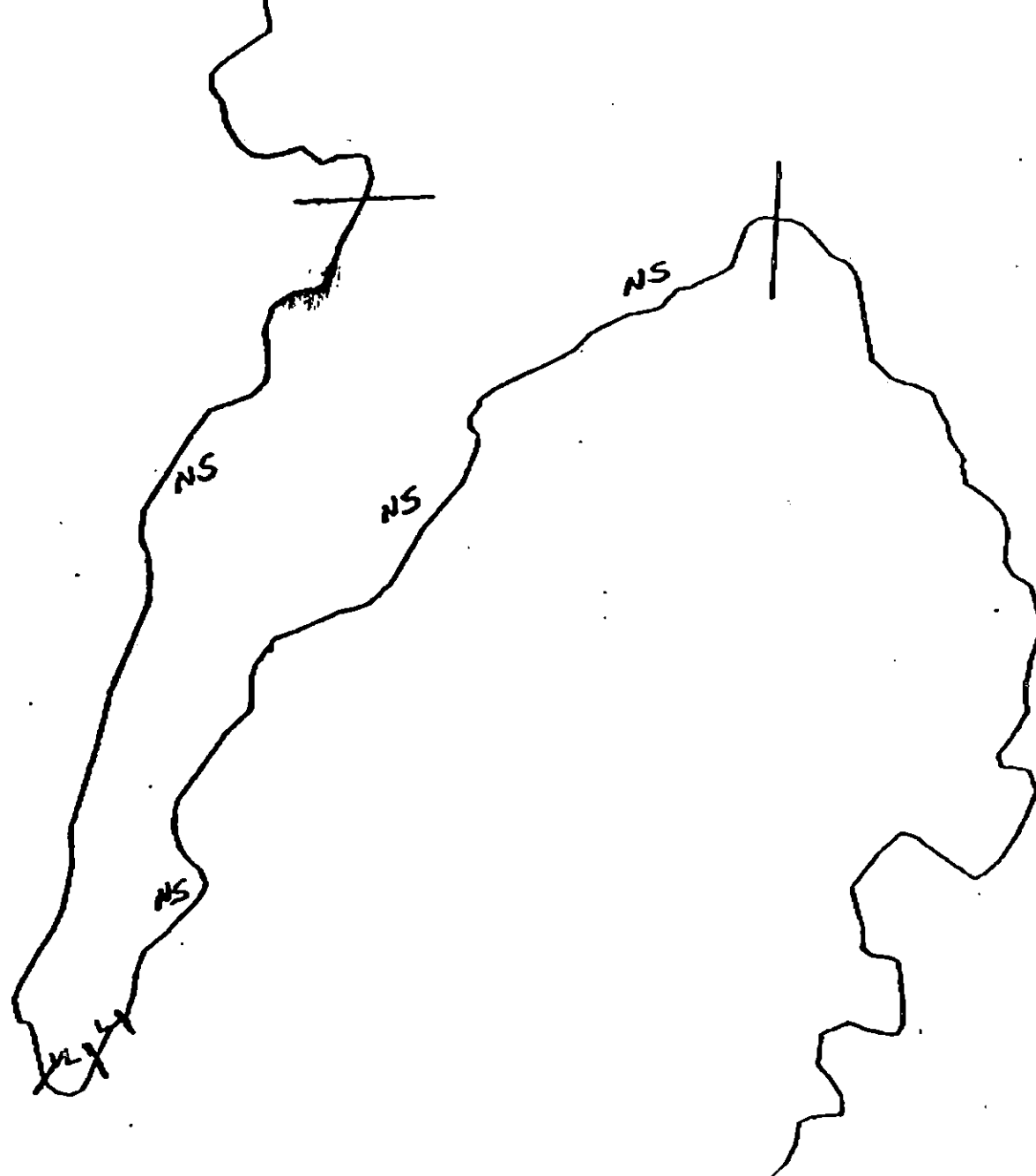
SI-8

ADEC Segment Length: 3257m

Map Key: KOD-180a

Name: PenlandDate: 4-1-90

K0101-S1008



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

ABEC Sep/Oct 1988 Survey

500.5

REGION: KODIAK

SEGMENT: KO1-01-SI-008

SUBDIVISIONS: C (3 OF 3)

SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-008 SUBDIVISION C (3 OF 3) DATE 4/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
5T All bald eagle nests (3/1 to 6/1)
Active bald eagle nests (3/1 to 9/1)
8AA Sensitive Estuary

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to unoiled biota and substrate. See attached Ecological Constraint Sheet.

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 0 m: No Oil 486 m
Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

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

COMMENTS:

TAG COMMENTS:

TAG APPROVAL DATE: _____

ADEC _____
EXXON _____
NOAA _____
USCG _____

FOSC: _____ DATE: _____

KODIAK ECOLOGICAL CONSTRAINTS

- ~~Salmon stream mouth - fry outmigration (4/15 to 7/31)~~
Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
 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 **Kotof Bay Hatchery release**
 Pink salmon - late May, early June; Chum salmon - June; Sockeye salmon - early July.
- 1H **Remote release site**
- 1I **Gill net area**
- 1J **Purse seine area**
 Mainland, West side Kodiak, Shuyak & Moser/Olga Bay - 6/9 to 10/1.
 East side Kodiak, East side Afognak - 7/4 to 10/1.
- 1K **Purse seine hook-off**
- 1L **Set net sites**
 USFWS setnet uplands permit 5/15 to 9/15.
- For Codes 1C through 1L contact ADF&G for specific dates, locations and constraints.
- 2M **Herring spawning (4/15 to 6/30)**
 Restrict boat traffic to essential minimum. Avoid damage to unloiled intertidal and subtidal algae and seagrass. Contact ADF&G for specific dates and locations.
- 3N, 3P **Harbor seal and sea lion pupping (5/10 to 6/30)**
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 3O, 3Q **Harbor seal and sea lion molting (8/15 to 9/15)**
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 5R **Seabird colony (5/1 to 8/31)**
 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 (6/1 to 9/30)**
- 7HH **Finfish harvesting**
- 7II **Deer harvesting (8/1 to 1/7)**
- 7JJ **Invertebrate harvesting**
- 7KK **Bear harvesting (4/1 to 5/15 and 10/25 to 11/30)**
 For Codes 7Z through 7JJ contact ADF&G and Chenega Corporation for specific dates, locations, and constraints.

FIELD SHORELINE COMMENT SHEET

SEGMENT ST/ K0101/S1008 SUBDIVISION: C DATE 4-1-90NOAA
USCGNAME John Naughton SIGNATURE John J. Naughton☒ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTEDNo oil observedADEC
NAMEScott Shelton SIGNATURE Scott Shelton☒ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTEDNo oil observed along Sub C.
K0101/S1008TEAM WALKED 257 METERS

LAND MANAGER

NAME Ray Burger AONR SIGNATURE Ray Burger☒ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTEDSplashes of coat found in Subd. B ceased to be foundHalfway through Subd. C we ran into bluffs that precluded access
Therefore northeast half of Subd. C was unassessed.Landable/campable (small craft)Area considered for addition to Shuyak State Park

OG Penland USCG Naughton SEGMENT ST/ K0101/S1008
 BIO Spight LAND REP Gary ADNR SUBDIVISION C
 EXXON 3ym ADEC Shelton TIME 13:08 to 14:11
 TEAM NO.: 19 TIDE LEVEL: 0 to +1.54 DATE 4/1/90
 EST. SUBDIVISION LENGTH: 480 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☒ Helo WORKING DIRECTION: S to N
 SURFACE SEDIMENTS: R 10 % B 60 % C 10 % P 10 % G 10 % S 0 % M 0 % V 0 %
 SLOPE: Lang 30 % Hang 40 % Vert 30 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 0 m NO 480 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	AC	AS	AP	AR	BR	BL	BY	CB	CL	CR	CU	CV	SU	U	M	U
ASPHALT PAVEMENT																
POOLED																
COVER																
COAT																
STAIN																
MOUSSE																
PATTIES																
TARBALLS																
FILM																
NO OIL													X	X	X	X

PAVEMENT: H F S 0 sq. m by 0 cm

PATTIES / TARBALLS 0 BAGS

NEAR SHORE SHEEN? ☒ NO BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

DEBRIS COLLECTED
☐ YES ☒ NO

TYPE 0

#BAGS 0

Photographs:

Roll No. —

Frames —

SUBSURFACE OIL

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		UB	UC	BR	BL	BY	CB	CL	CR	CU	CV	SU	U	M	U		
0							.																
							.																
							.																
							.																
							.																
							.																
							.																

COMMENTS

No pits dug due to shallow occurrence of bedrock

OG Kenland

SEGMENT K0121/SI008

SUBDIVISION C

DATE 4 / 1 / 90

CHECKLIST

- ☒ N Arrow
- ☒ Approx. Scale
- ☒ Seg/Sub Bndry
- ☒ Oil Det.
 - Width
 - Length
 - % Cover
- ☒ Substrate Character
- ☒ Est. HML/LWL
- ☒ SSE
- ☒ Profile Location(s)
- ☒ Photo(s)
- ☒ Photo Location(s)

LEGEND

1 

Ph - No Subsurface Oil

2 

Ph - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

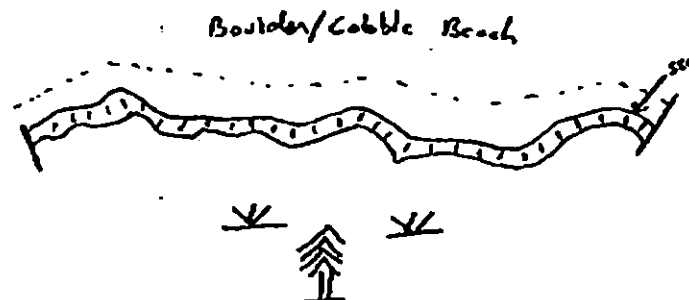
Splashed Distribution

Oiled Vegetation

1 

Photo location, direction,
and number

SKETCH MAP



Oil Character Length (m): AP 0 PO 0 CV 0 CT 0 ST 0 MS 0 PT 0 TB 0 FL 0 NO 480

REVISED 08/24/90

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22

Segment ST/ SI-8 Subdivision C Date (mo / day / yr) 4/1/90
 Time (24 hr) 1:06 Biologist SPIGHT

- (A) Substrate type and % of segments:
 (1) Bedrock 10 (2) Boulder 10 (3) Cobble 15 (4) Pebble 65 (5) Sand (6) Silt
- (B) Overall % cover of biota (% of segment): Dense 15 Moderate 10 Low 75
- (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	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

MYTILUS

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

NOT PRESENT

GASTROPODS

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

NOT PRESENT

FUCUS

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

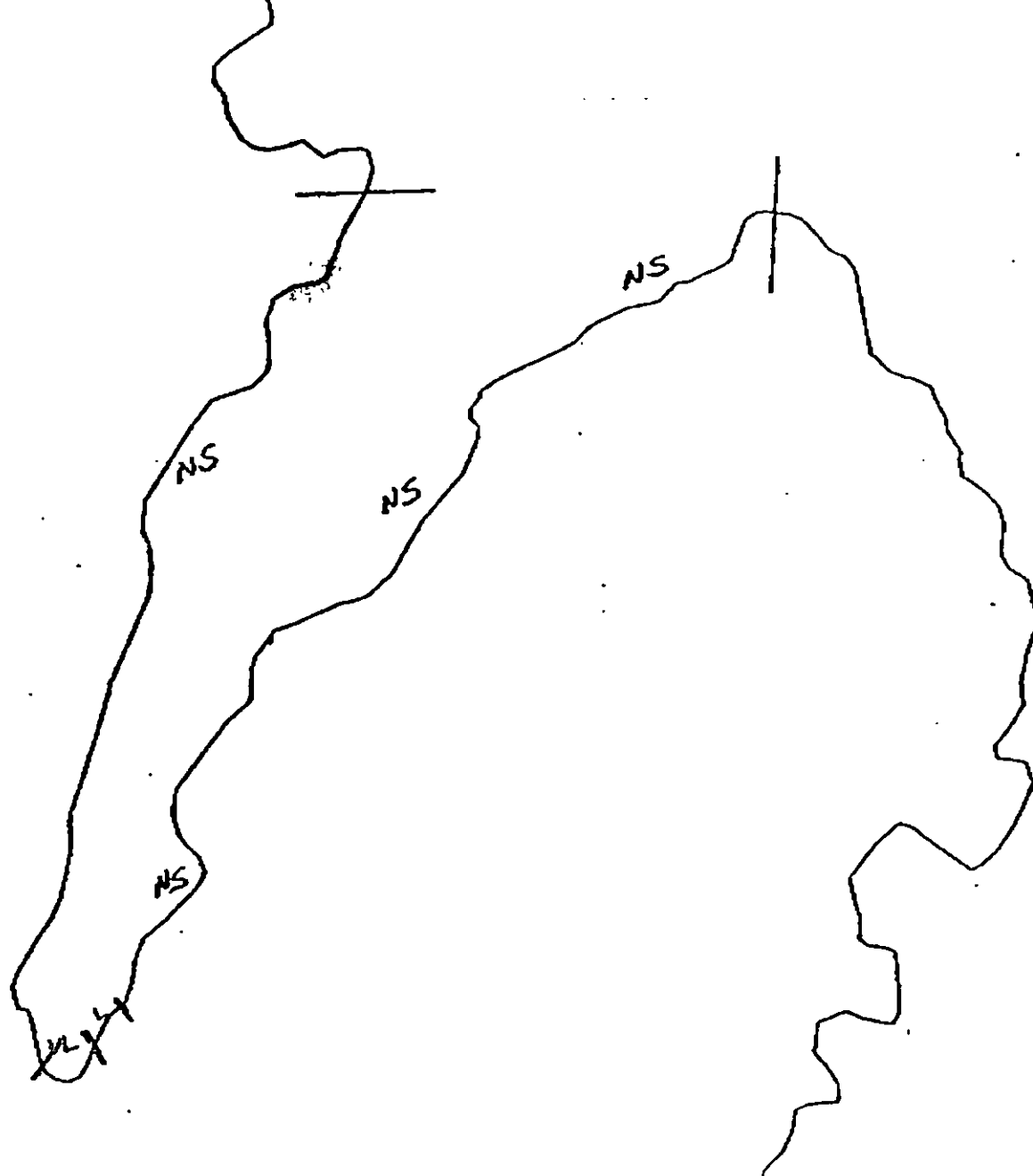
NOT PRESENT

Wildlife Observations/ General Comments:

Ecological Considerations:

Larger cobbles with *B. cariosus* in portion of area

K0101-S1008

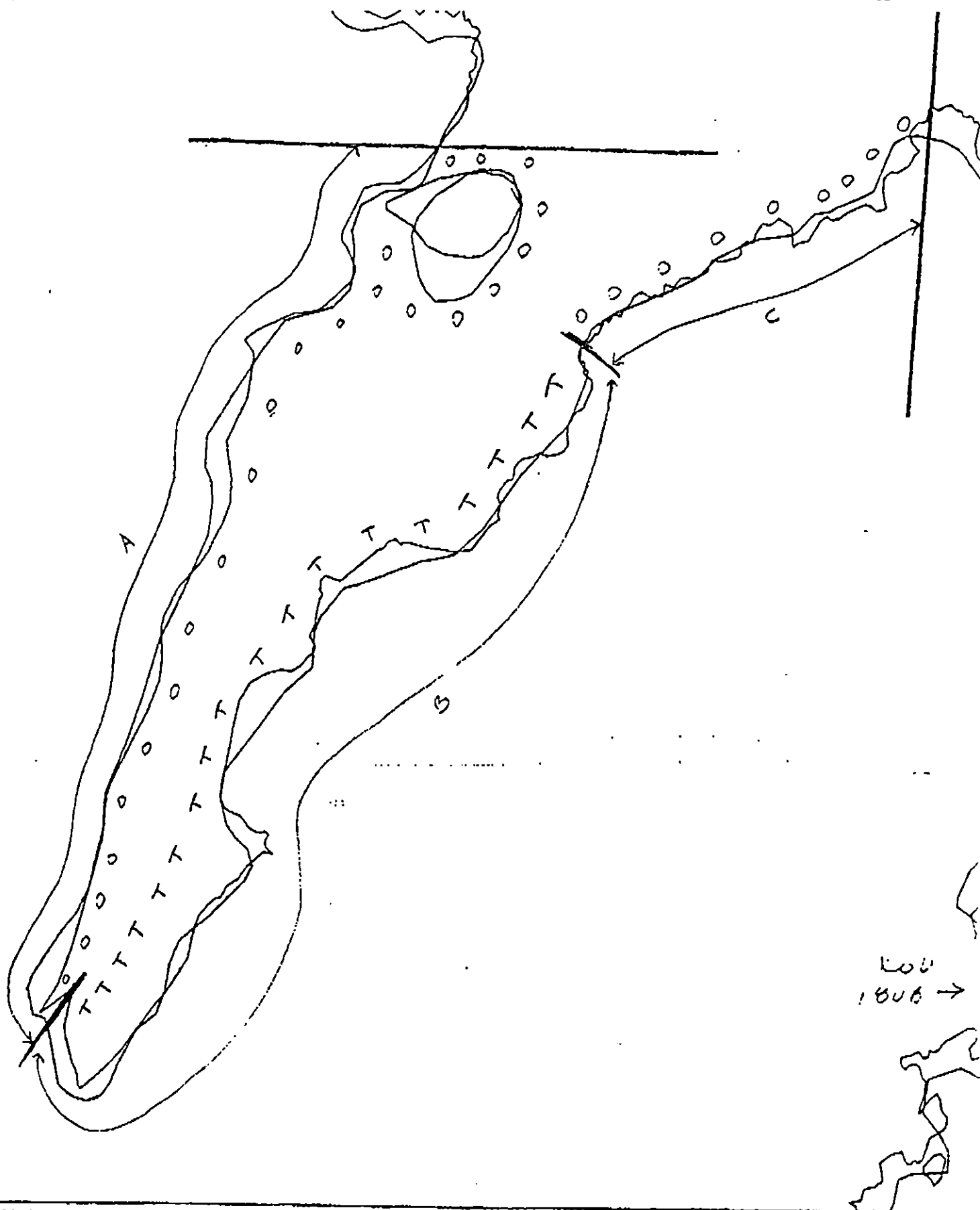


OILING

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

Distance In Meters

ADEC Sep/Oct 1989 Survey



XXXX Wide

//// Medium

--- Narrow

TTTT Very Light

OOOO No Oil

SI-8

ADEC Segment Length: 3257m

0 100 200 300

Map Key: KOD-1800

Name: Penland

Date: 4-1-90

Data Entered:

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/K01-01-SI-008 STREAM NO: 251-81-10010 DATE 5/1/90

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)
5T-1 All Bald Eagle nests (3/1 to 6/1) (Seabird colony in adjacent
segment SI-009)
8AA Sensitive estuary
9LM Land mammals

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Subject stream exists in subdivision A (1 of 1). Avoid disturbance of intertidal biota.

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: Rachel Dan Owe DATE: 5/22/90

Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

<u>X</u> 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)

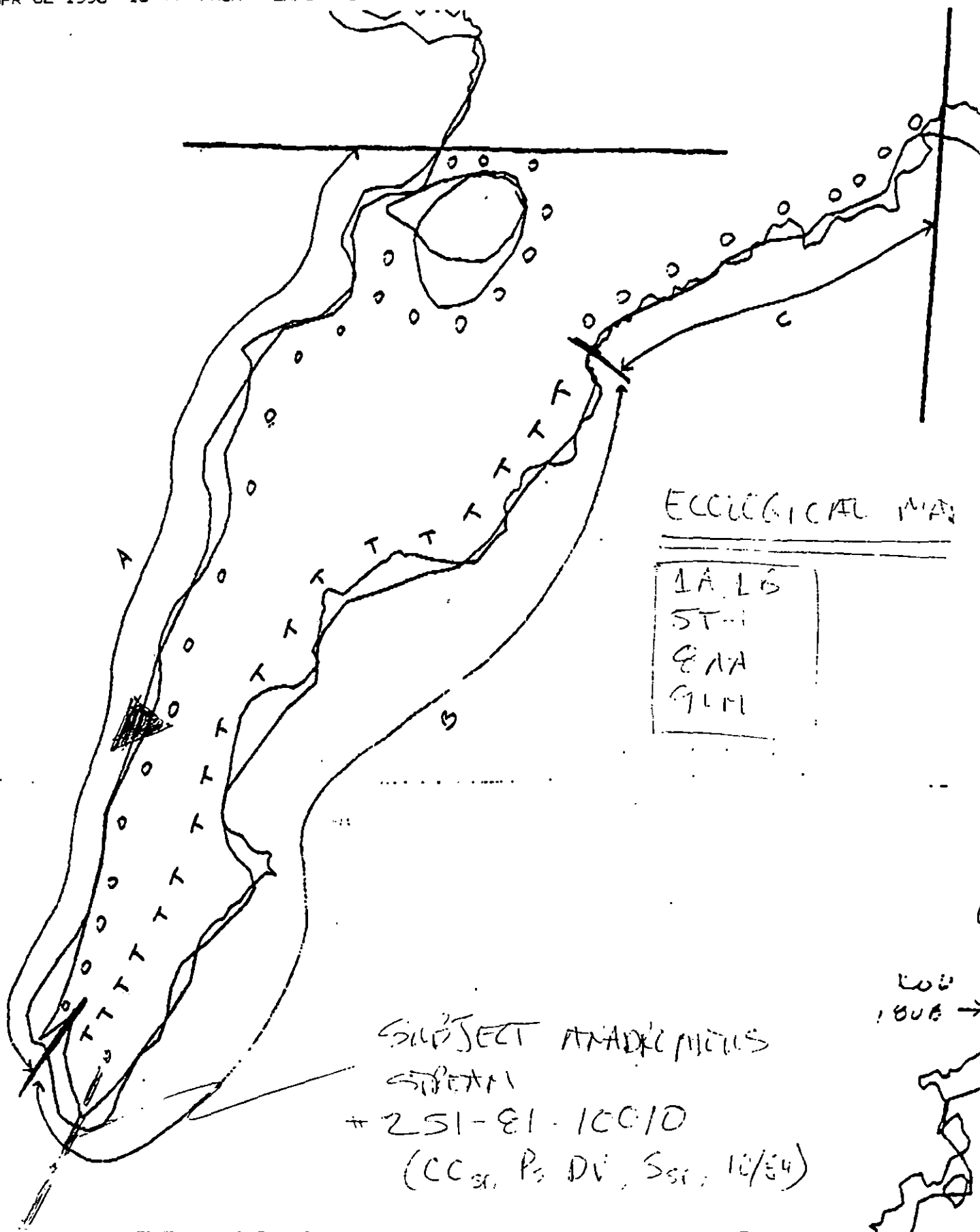
COMMENTS: _____

TAG COMMENTS: _____

TAG APPROVAL DATE: 5/18/90
ADEC Art Weimer Art Weimer
EXXON ANDY TOL Andy Tol FOSC [Signature] DATE: MAY 25 1990
NOAA Gary Petrac Gary Petrac
USCG G.A. BEITER G.A. Beiter

~~FISHING~~
DEBIS

Dead Lines



XXXX Wide

//// Medium

---- Narrow

TTTT Very Light

SI-8

ADEC Segment Length: 3257m

Map Key: KOD-180a

Name: Penland

Date: 4-1-90

ANADROMOUS FISH STREAM ASSESSMENT

REGION: KODIAK

SEGMENT: K01-01-SI-008

SUBDIVISION: A

STREAM NO: 251-81-10010

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/K01-01-SI-008 STREAM NO: 251-81-10010 DATE 5/1/90

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)
5T-1 All Bald Eagle nests (3/1 to 6/1) (Seabird colony in adjacent segment SI-009)
8AA Sensitive estuary
9LM Land mammals

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Subject stream exists in subdivision A (1 of 1). Avoid disturbance of intertidal biota.

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:

<u>X</u> 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: _____

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____
EXXON _____
NOAA _____
USCG _____

FOSC: _____ DATE: _____

KODIAK ECOLOGICAL CONSTRAINTS

- ✓
1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
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 Kotol Bay Hatchery release
Pink salmon - late May, early June; Chum salmon - June; Sockeye salmon - early July.
- 1H Remote release site
- 1I Gill net area
- 1J Purse seine area
Mainland, West side Kodiak, Shuyak & Moser/Olga Bay - 6/9 to 10/1.
East side Kodiak, East side Afognak - 7/4 to 10/1.
- 1K Purse seine hook-off
- 1L Set net sites
USFWS setnet uplands permit 5/15 to 9/15.

For Codes 1C through 1L contact ADF&G for specific dates, locations and constraints.
- 2M Herring spawning (4/15 to 6/30)
Restrict boat traffic to essential minimum. Avoid damage to uncoiled intertidal and subtidal algae and seagrass. Contact ADF&G for specific dates and locations.
- 3N, 3P Harbor seal and sea lion pupping (5/10 to 6/30)
Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 3O, 3Q Harbor seal and sea lion molting (8/15 to 9/15)
Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 5R Seabird colony (5/1 to 8/31)
Restrict air traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance. Contact ADF&G and USFWS prior to treatment.
- 5S Shorebird/waterfowl concentration (4/1 to 5/15)
Restrict all activity to essential minimum, especially air traffic.
- ✓ 5T All Bald Eagle nests (3/1 to 6/1)
Active Bald Eagle nests (3/1 to 9/1)
Restrict air traffic to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates.
- 6U Recreation: Tent sites (6/1 to 9/15)
- 6V Anchorages (6/1 to 9/15)
- 6W Forest Service cabins (6/1 to 9/15)
- 6X Lodge (6/1 to 9/15)
- 6Y Special use destination
- 7Z Subsistence area: Salmon harvesting (6/1 to 9/30)
- 7HH Finfish harvesting
- 7II Deer harvesting (8/1 to 1/7)
- 7JJ Invertebrate harvesting
- 7KK Bear harvesting (4/1 to 5/15 and 10/25 to 11/30)
For Codes 7Z through 7JJ contact ADF&G and Chenega Corporation for specific dates, locations, and constraints.

FIELD SHORELINE COMMENT SHEET

2/25

ASC# (BACK BAY CREEK)

SEGMENT ST / SI-008 SUBDIVISION: 251-B1-10010 DATE 01 MAY 90

USCG

NAME Kerwin L. Dreher SIGNATURE CWO H. L. Duhon

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

ADFG

ADEC → ADNR

NAME EDWARD W. WEISS SIGNATURE Edward W. Weiss

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

RECOMMEND MANUAL PICK-UP OF T.BALES / RATTIES EAST SIDE OF LAGOON. IMPACT ON WEST SIDE COULD BE PICKED UP AT SAME TIME, BUT THE IMPACT ON THE NORTH SIDE IS SIGNIFICANTLY LESS AND MORE OCCASIONAL.

ADNR

LAND MANAGER → Mike Cochran

NAME Mike Cochran SIGNATURE Mike Cochran

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

This segment contains state lands proposed for future inclusion into SHUYAK Island State Park and is an area of high recreational potential as well as providing for wildlife habitat. An active Eagle nest was observed in this immediate area. This area provides a commonly used anchorage in this protected bay for recreational and commercial fishing vessels. Manual pick-up of T.bales and scattered ratties on the East side of the bay is recommended.

SHORELINE OILING SUMMARY (ANAD)

REVISION NO. 04/13/90

OG CAL LARSON USCG DREHER, CWE SEGMENT ST/SE 908 4/25
 BIO KEN CRITCHLOW LAND REP MIKE GOODWIN STREAM 251-81-1040 (OF)
 EXXON DARRELL YOE ADFG ED WEISS TIME 01:45 10:22:30
 TEAM NO. 14 TIDE LEVEL -0.1 FT DATE 5/1/90
 EST. SUBDIVISION LENGTH: 200 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R % B 10 % C 10 % P 30 % G 40 % S 10 % M % V
 SLOPE: Long 75 % Hang 25 % Vert % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W m M m N m VL 540 m NO m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR						IMPACTED ZONES			
	C	B	P	S	1	2	3	4	5	6	SU	U	M	L
ASPHALT PAVEMENT														
POOLED														
COVER														
COAT														
STAIN														
MOUSSE														
PATTIES														
TARBALLS														
FILM														
NO OIL														

PAVEMENT H F S sq. m by crPATTIES / TARBALLS 10 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. Frames

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (cm)	BELOW		OIL / FILM COLOR						PIT ZONE				A N A	SHEEN (Y/N)	↓	SURFACE - SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		SO	UC	1	2	3	4	5	6	SU	U	M	L				

COMMENTS NO PITS DUG DUE TO LACK OF OIL PENETRATIONREVIEWED 7WDATE 5/3/90

OG CALLARSON

SEGMENT STI SI 008

STREAM 251-01-10010

DATE 5/1/90

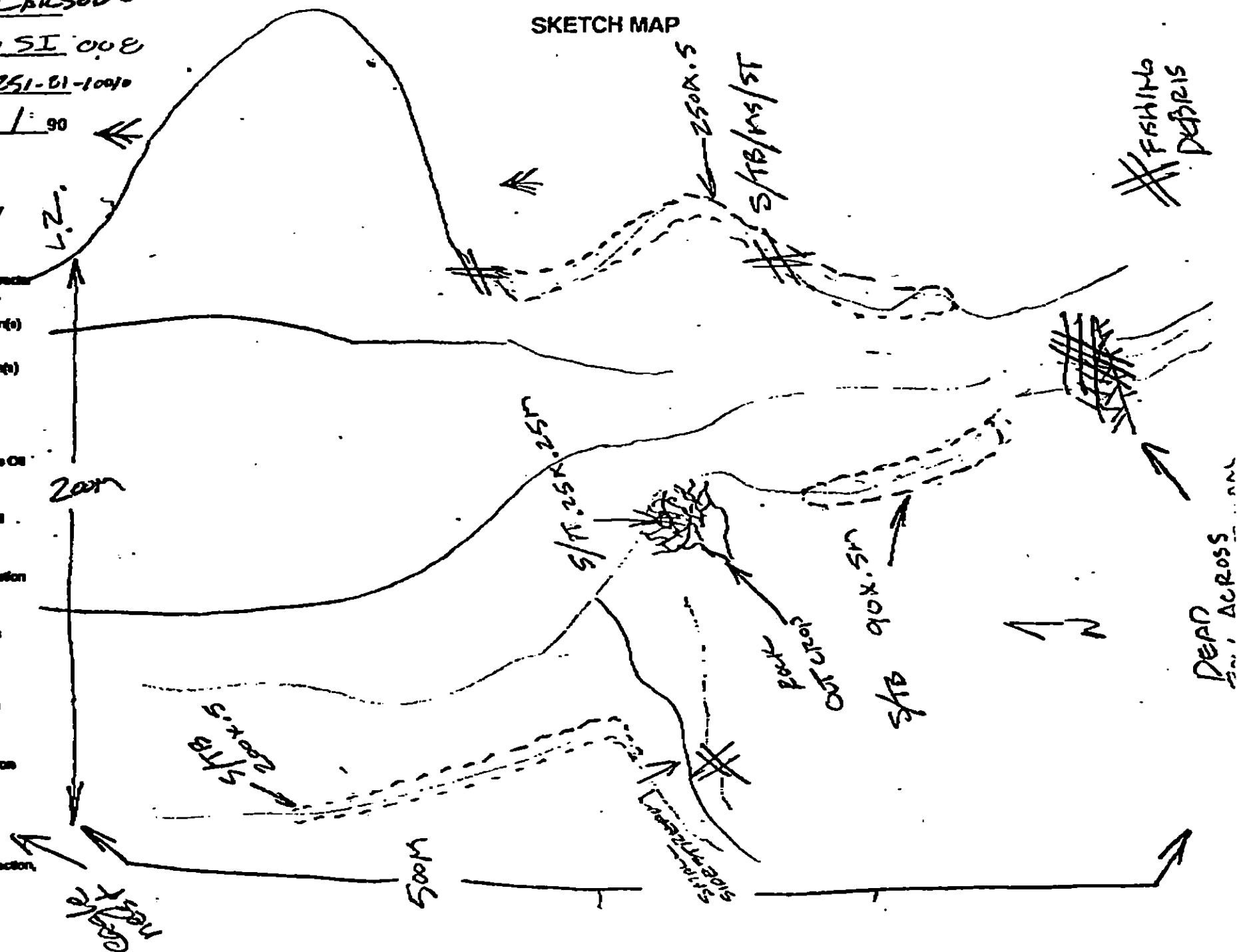
CHECKLIST

- ☐ H Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Boundary
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HW/LWL
- ☐ SSL
- ☐ Profile Location(s)
- ☐ Photo(s)
- ☐ P/L Location(s)
- ☐ Photo Location(s)

LEGEND

- 1 Δ
P/L - No Subsurface Oil
- 2 Δ
P/L - 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 Legend (m): AP PO CV CT ST 03 MS 03 PT 25 TB 373 FL NO

ANADSSAT 9/25

ADFG MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS DS TS AVS SCHA MMS PTA 2 REGION: PIS HP, CI QAP

METHOD: Aerial Ground Boat

3 DATE: 5-2-90 15 HIGH TIDE TIMES: 1 21 TEAM RECORDER: E. WEISS

4 START TIME: 1335 16 HIGH TIDE HTS: 1 22 OBSERVERS: K. LARSON, R. CRITCHLOW

5 STOP TIME: 1455 17 LOW TIDE TIMES: 1509 23 AGENCY: ADFG/ADNR

6 SEGMENT #: SI008 18 LOW TIDE HTS: .5 24 PHOTOS TAKEN: Y X

7 STATION #: _____ 19 TIDE HT AT SURVEY: _____ Roll #: _____ Frames: _____

8 K-UNIT: K0101 Ebb Stack Flood Stack 25 VIDEO TAKEN: Y X TAPES: _____

9 STAT AREA: _____ 20 USCG QUAD: _____ Starts: _____ Ends: _____

10 LAT: _____ 11 LONG: _____ 26 SAMPLES TAKEN: Y X Number _____

12 SOURCE: Map Loran 011 _____

13 LOCATION: BACK BAY BEAR COVE, SHUYAK IS. Sediment _____

14 DESCRIPTION: _____ Biological _____

Water _____

EXTENT OF OIL

27 SURFACE COVERAGE

SHORELINE				STREAM			
L	M	H	N	L	M	H	N

28 SURFACE THICKNESS

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

29 PENETRATION

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

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

31 OIL TYPE: Pooled Mouse Tar Asphalt Sticky Stain

32 OILED DEBRIS: Y (H)

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

34 WAVE EXPOSURE: High Moderate (Low)

35 SUBSTRATE TYPE: Bedrock Boulder 20 Cobble 30
Gravel 50 Sand Mud/silt

36 CATALOGED ANAD. FISH STREAM? X N

37 CATALOG #: 251-81-10010

38 STREAM NAME: BACK BAY CREEK

39 OIL IN STREAM BED? Y X

40 OIL ON STREAM BANKS? X 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: SPORADIC BAND OF TAR/MOUSE PATTERNS/SALATERINGS
1M WIDE AROUND EAST SIDE OF LAGOON TO STREAM
MOUTH. BECOMING MORE SPORADIC ON WEST SIDE
OF LAGOON.

8/25

Seg ID: SI-008 Subdiv: 251-81-10010

Survey Date: 5/1/90

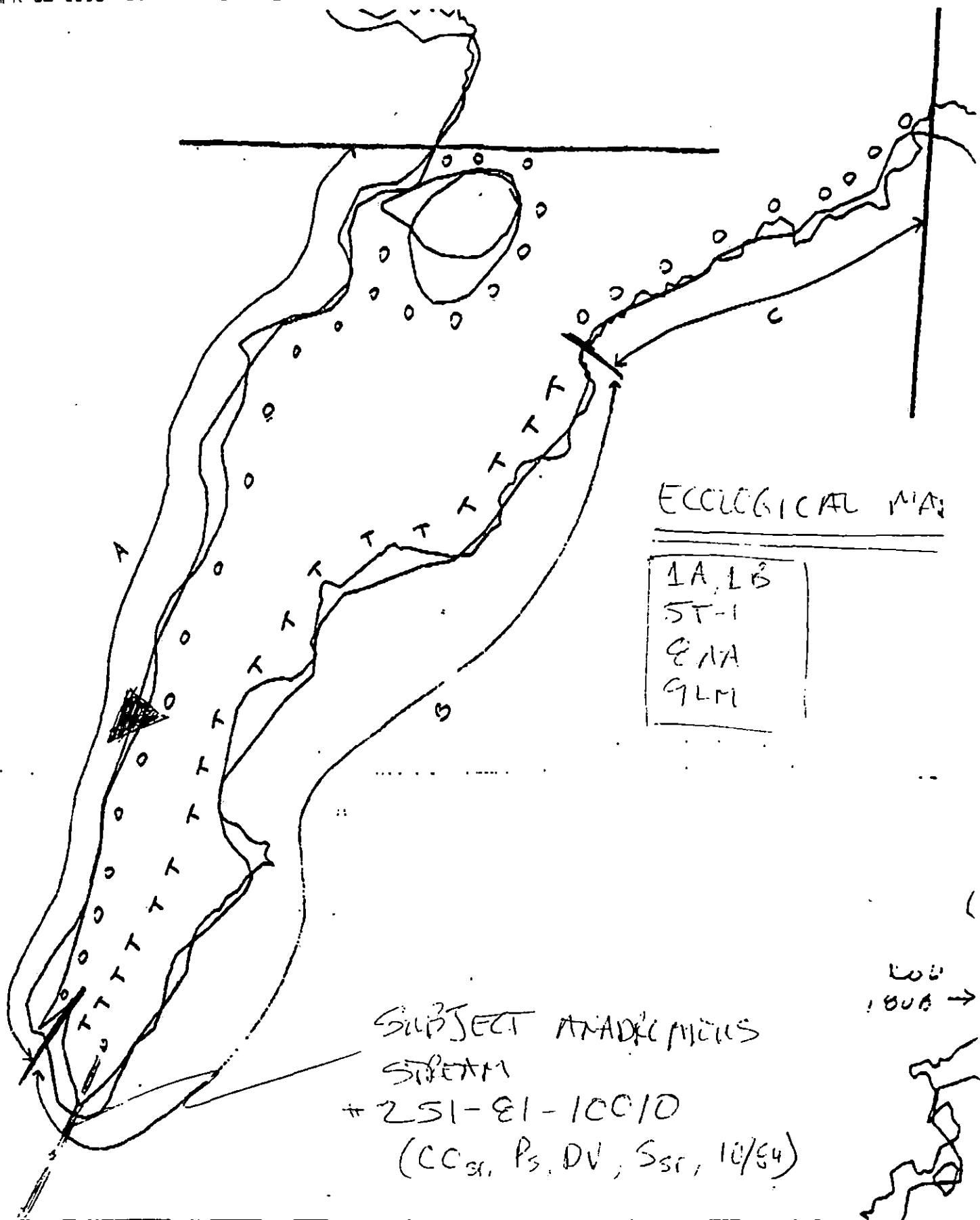
Comments by: Ken Critchlow

The upper edge of the MITZ and the STZ were observed to contain a narrow band of starn, mousse, patties and small tarballs. Oil of any sort was scattered along the upper portion of the stream on both banks.

The intertidal biota in this lagoon-stream site was very rich. The MITZ contained abundant barnacle and littorinid populations. The LITZ was primarily a muddy substrate that seem to support fairly dense clam beds and eelgrass beds.

The lower west bank of the stream is the site of an active bald eagle nest. Both members of the pair were observed, with the female on the nest. This nest site should not be disturbed. No clear benefit would be gained from cleanup.

KRCritchlow



XXXX Wide

/// Medium

--- Narrow

TTTT Very Light

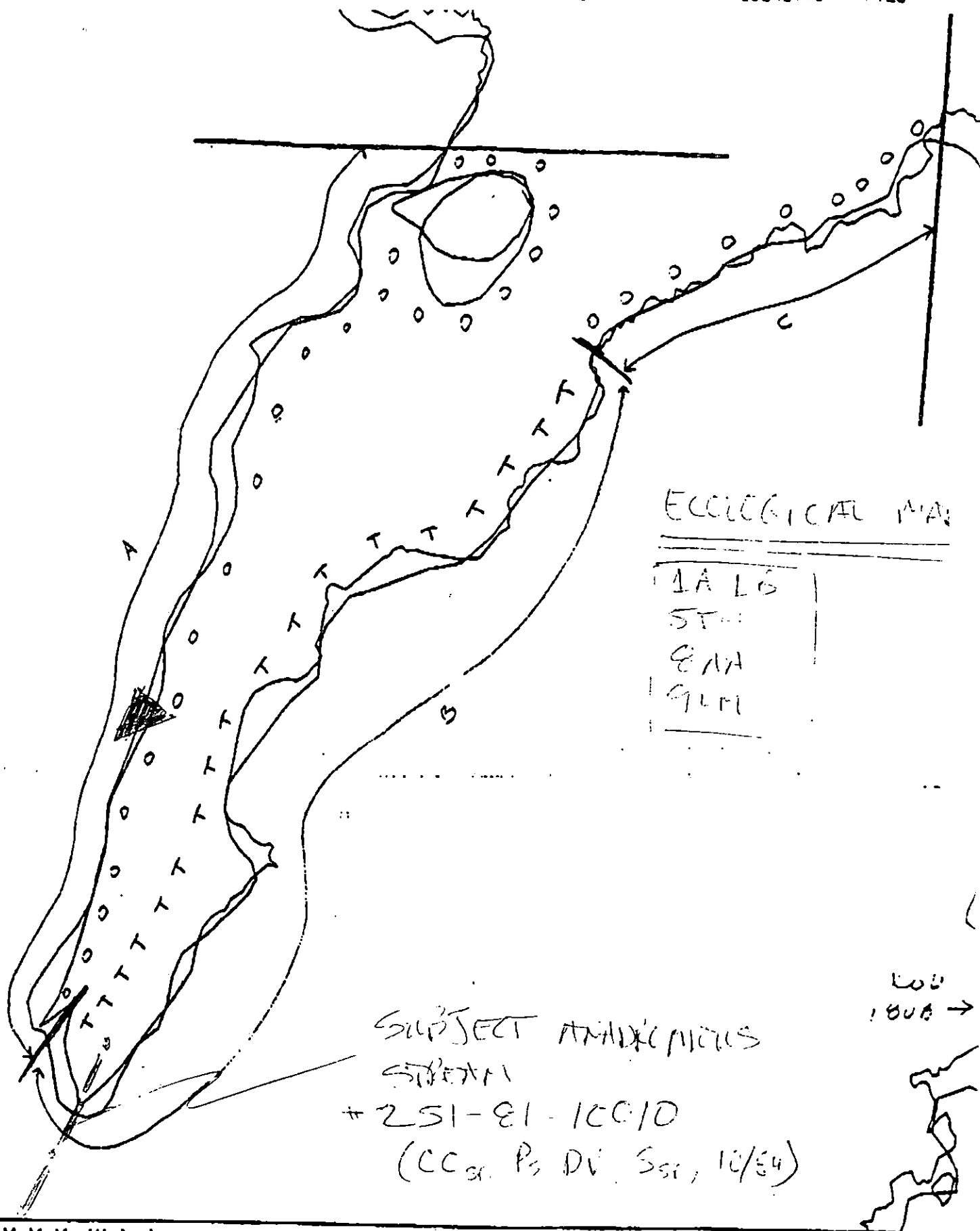
SI-8

ADEC Segment Length: 3257m

Map Key: KOD-180a

Name: Penland

Date: 4-1-90



XXXX Wide

//// Medium

--- Narrow

TTTT Very Light

SI-8

ADEC Segment Length: 3257m

Map Key: KOD-180a

Name: Penland

Date: 4-1-90

SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-009 SUBDIVISION A (1 OF 3) DATE 4/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon Stream mouth - fry outmigration (4/15 to 7/31)

1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)

See attached Ecological Constraint Sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to unoiled substrate and biota.

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: Charles E. H. Hume DATE: 4/20/90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 0 m: No Oil 7223 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

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

COMMENTS:

TAG COMMENTS:

TAG APPROVAL DATE: 4/19/90.
ADEC ART WEINER
EXXON ANNY GIL
NOAA Burt Wescott
USCG KENNETH KEANE

FOSC: [Signature] DATE: 4-25-90

15643771 P.17 TO EXXON KODIAK 18:53 PMUJ HPK-02-1990

SEGMENT K9121 / S1029

SUBDIVISION A

DATE 4 / 1 / 90

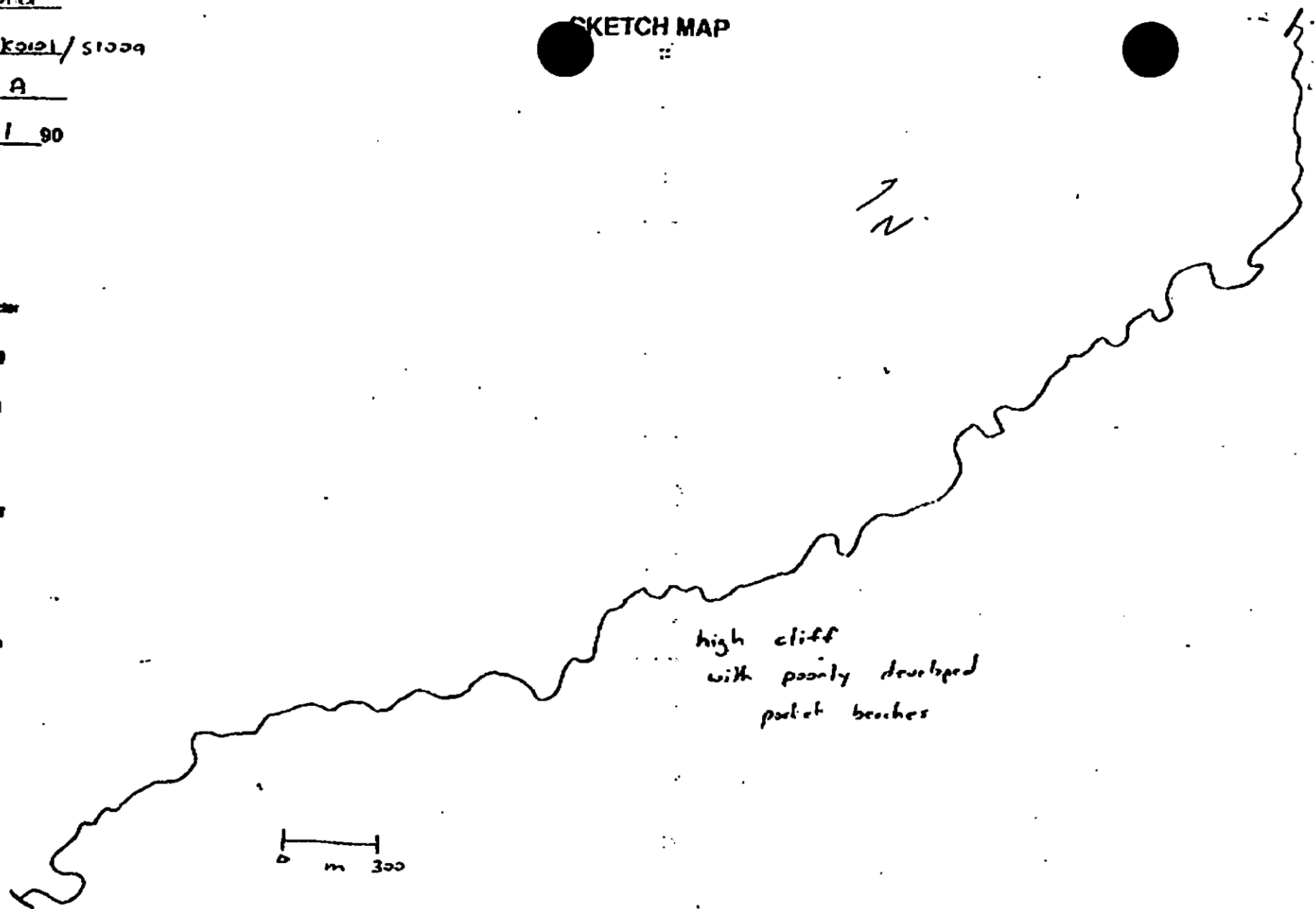
SKETCH MAP

CHECKLIST

- ☒ N Arrow
- ☒ Approx. Scale
- ☒ Seg/Sub Bndry
- ☒ Oil Dist
- ☒ Width
- ☒ Length
- ☒ % Cover
- ☒ Substrate Character
- ☒ Est. HW/LA/PR
- ☒ SSL
- ☒ Profile Location(s)
- ☒ Profile(s)
- ☒ Pit Location(s)
- ☒ Photo Location(s)

LEGEND

- 1 Pit - No Subsurface Oil
- 2 Pit - Subsurface Oil
- Continuous Distribution
- Broken Distribution
- Patchy Distribution
- Spatched Distribution
- Oiled Vegetation
- 1 Photo location, direction, and number



Character Length (m): AP 0 PO 0 CV 0 CT 0 ST 0 MS 0 PT 0 TB 0 FL 0 NO 12717

SI-7

SI-8

↓ KOD 181A

XXXX Wide

//// Medium

--- Narrow

TTTT Very Light

OOOO " " " "

SI-9

ADEC Segment Length: 13917m

0 300 600 900

Map Key: KOD-181c

Name: Penland

Date: 4-1-90



↑
KOD
1810

SI-9

A

B

C

SI-9

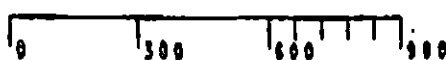
ADEC Segment Length: 13917m

XXXX Wide

//// Medium

--- Narrow

TTTT Very Light



Map Key: KOD-181a

Name: Penland

Date: 4-1-90

SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-009 SUBDIVISION B (2 OF 3) DATE 4/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

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

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to uncoiled biota and substrate. One eagle nest in Subdivision B.

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: Charles E. Hume

DATE: 4/20/90

OILING CATEGORIZATION:

Wide 59 m: Medium 0 m: Narrow 0 m: V.Light 0 m: No Oil 0 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

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

COMMENTS: Recommend bioremediation of cover and coat areas as indicated on sketch map. Work should be conducted only with approval from ADF&G and USFWS due to above listed constraints.

TAG COMMENTS:

TAG APPROVAL DATE: 4/19/90

ADEC
EXXON
NOAA
USCG

ART WEINER
ANDY TEAL
Burt Wescott
KENNETH KEANE

FOSC: X

DATE: 4-25-90

SI-7

SI-8

↓ KOD 181A

SI-9

XXXX Wide

//// Medium

--- Narrow

TTTT Very Light

ADEC Segment Length: 13917m

0 300 600 900

Map Key: KOD-181c

Name: Penland

Date: 4-1-90



↑
KOD
1810

SI-9

A

xxxxx

SI-9

XXX Wide

//// Medium

--- Narrow

TTTT Very Light

ADEC Segment Length: 13917m

Map Key: KOD-181a

Name: Penland

Date: 4-1-90



OG Penlar

SKETCH MAP

SEGMENT ST/ K0101/ S1009

SUBDIVISION 0

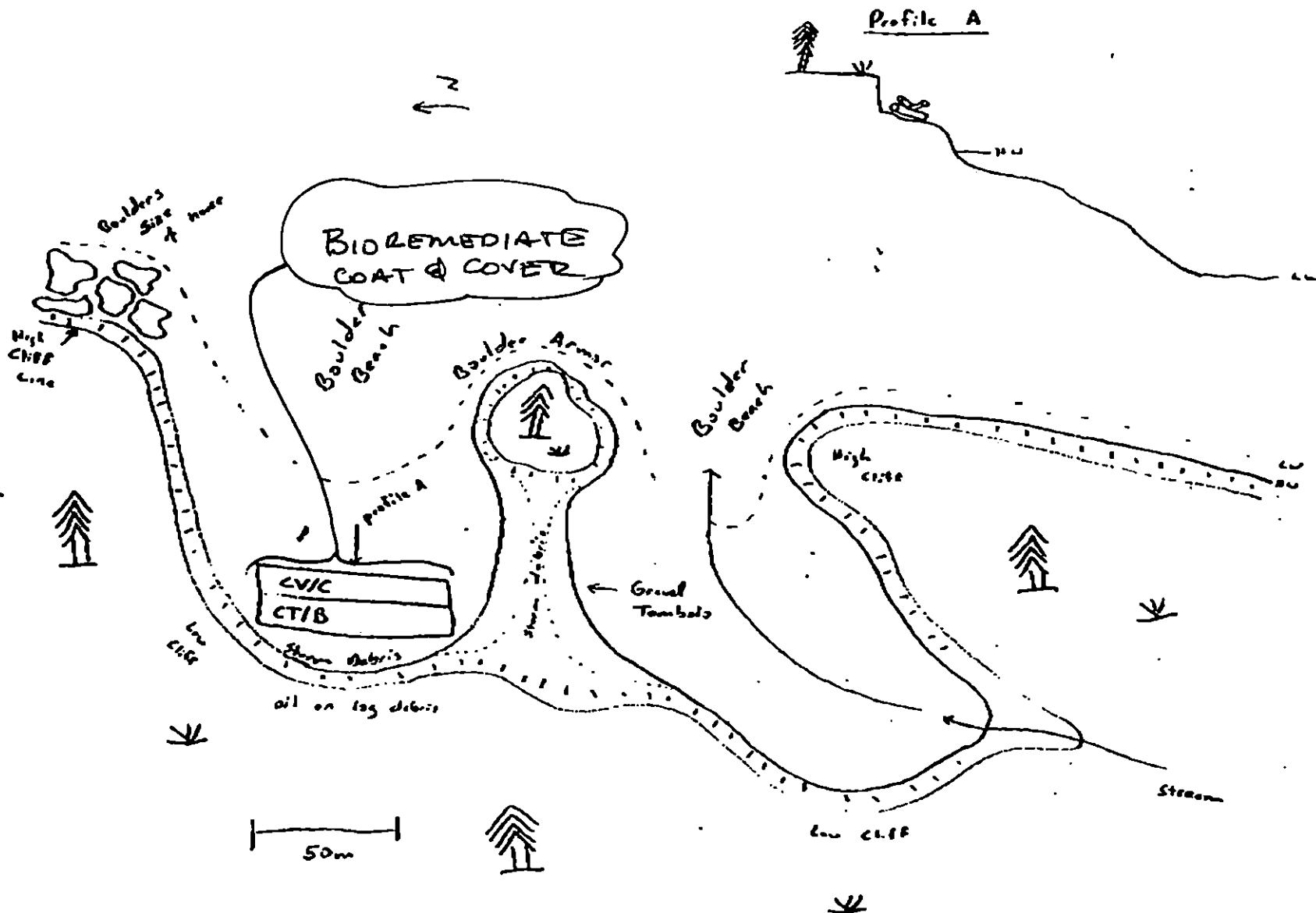
DATE 4 / 1 90

CHECKLIST

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

LEGEND

- 1 Δ
P1 - No Subsurface Oil
- 2 Δ
P2 - 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



Character Length (m): AP 0 PO 0 CV 60 CT 100 ST 0 MS 0 PT 0 TB 0 FL 0 NO 70

REVISION 007400

ADDENDUM: SUBDIVISION CONSTRAINTS

SEGMENT K01-01-SI-009 SUBDIVISION B (2 of 3)

WORK WINDOW	
Bioremediation	CLOSED

ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

1A,1B	Salmon Stream	NO ADF&G catalogued stream in Segment. No constraint to bioremediation.
5T	Bald Eagle Nest	USFWS 4/9/90 map indicates an active nest in Subdivision B. Closed to bioremediation within 400m of active nest. No constraint to bioremediation more than 400m from active nest.
5R	Seabird Colony	NO CONSTRAINT. Work site is more than 800m from seabird colony.

OTHER ECOLOGICAL CONSIDERATIONS

FOSC

[Signature]

Date

6/15/90

Prepared by

Rev D. Coulter

Date

06-14-90

SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-009 SUBDIVISION B (2 OF 3) DATE 4/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

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

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to unoiled biota and substrate. One eagle nest in Subdivision B.

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: Charles E. Hume DATE: 4/20/90

OILING CATEGORIZATION:

Wide 59 m: Medium 0 m: Narrow 0 m: V.Light 0 m: No Oil 0 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

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

COMMENTS: Recommend bioremediation of cover and coat areas as indicated on sketch map. Work should be conducted only with approval from ADF&G and USFWS due to above listed constraints.

SEE CONSTRAINT ADDENDUM
DATED 06-14-90

TAG COMMENTS:

TAG APPROVAL DATE: 4/19/90

ADEC ART WENNER Dist. Wm.
EXXON AMY TGA Dist. Wm.
NOAA Burt Wescott Dist. Wm.
USCG KENNETH KEANE Dist. Wm.

FOSC: X

DATE: 4-25-90

SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-009 SUBDIVISION C (3 OF 3) DATE 4/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (4/15 to 7/31)

1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: *Charles E. Homan*

DATE: 4/20/90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 0 m: No Oil 1230 m

Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

X No Treatment Recommended

 Treatment Recommended

 Manual Pickup

 Bioremediation

 Tarmat: Breakup

 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: 4/19/90.

ADEC ART WEAVER *Art Weaver*

EXXON ANDY TATE *Andy Tate*

NOAA Burt Wescoff *Burt Wescoff*

USCG KENNETH KEANE *Kenneth Keane*

FOSC: *[Signature]*

DATE: 4-25-90

SI-7

SI-8

↓ EOD 181A

SI-9

XXXX Wide

//// Medium

--- Narrow

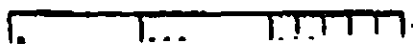
TTTT Very Light

ADEC Segment Length: 13917m

Map Key: KOD-181c

Name: Penland

Date: 4-1-90



↑
KOD
171C

SI-9

A

B

C

SI-9

ADEC Segment Length: 13917m

XXXX Wide

//// Medium

---- Narrow

TTTT Very Light

Map Key: KOD-181a

Name: Penland

Date: 4-1-90



SEGMENT K0101 / SI 009

SKETCH MAP

SUBDIVISION C

DATE 4 / 1 / 90

CHECKLIST

- ☒ N Arrow
- ☒ Approx. Scale
- ☒ Seg/Sub Bndry
- ☒ Oil Dist.
- ☒ Width
- ☒ Length
- ☒ % Cover
- ☒ Substrate Character
- ☒ Est. HNT/L/WL
- ☒ SSL
- ☒ Profile Location(s)
- ☒ Profile(s)
- ☒ P/L Location(s)
- ☒ Photo Location(s)

LEGEND

1 

Pt - No Subsurface Oil

2 

Pt - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

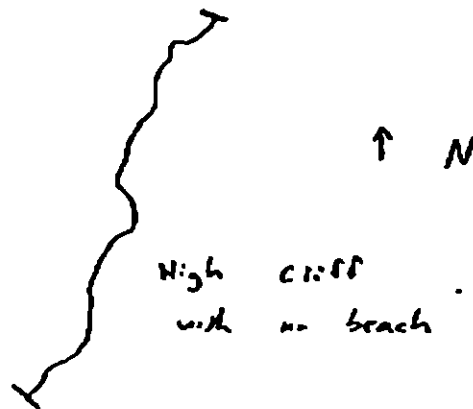
CT/S

Splashed Distribution

Oil'd Vegetation

1 

Photo location, direction,
and number



Character Length (m): AP 0 PO 0 CV 0 CT 0 ST 0 MS 0 PT 0 TB 0 FL 0 NO 900

REVISION: 010400

REGION: KODIAK

SEGMENT: ST/K01-01-SI-009

SUBDIVISIONS: A (1 OF 3)

SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-009 SUBDIVISION A (1 OF 3) DATE 4/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon Stream mouth - fry outmigration (4/15 to 7/31)

1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)

See attached Ecological Constraint Sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to unoiled substrate and biota.

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 0 m: No Oil 7223 m
Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

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

COMMENTS:

TAG COMMENTS:

TAG APPROVAL DATE: _____

ADEC _____

EXXON _____

NOAA _____

USCG _____

FOSC: _____ DATE: _____

SEGMENT ST/ K0101/ST009 SUBDIVISION: A DATE 4-1-90NOAA
~~666~~
NAMEJohn Naughton

SIGNATURE

John J. Naughton☒ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTEDNo oil observed.ADEC
NAMEScott Shelton

SIGNATURE

Scott Shelton☒ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTEDK0101/ST009 Sub. A.High energy coast line - No oil observed - Helicopter fly by - Cliffs no beach access.

LAND MANAGER

NAME

Ray Burger ADNR

SIGNATURE

Ray Burger☐ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTEDCliffs prevent access / no assessment (could be done by Avon in calm seas)Peninsula at south end of subd. was quickscattered by helicopterlanding on tidelands & 2 crew members walking beach for ~10 min.- no oil observed, high energy beachArea considered for Shuyak State Park addition.

SHORELINE OILING SUMMARY

REVISION NO. 03/02/90

OG Penland ~~USCG~~ Naughton SEGMENT ST/ K0101/S1009
 BIO Spright LAND REP Gunga ADNR SUBDIVISION A
 EXXON Exxon ADEC Shelton TIME 2:55 10 3 17
 TEAM NO.: 19 TIDE LEVEL: 2 ft 10 DATE 4 1 90
 EST. SUBDIVISION LENGTH: 12917 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☐ Foot ☐ Boat ☒ Helo WORKING DIRECTION: N to S
 SURFACE SEDIMENTS: R 50 % B 30 % C 10 % P 10 % G 0 % S 0 % M 0 % V 0 %
 SLOPE: Long 20 % Hang 30 % Vert 50 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 0 m NO 12917 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	10	15	17	18	20	25	30	35	40	45	50	55	SU	U	M	L
ASPHALT PAVEMENT																
POOLED																
COVER																
COAT																
STAIN																
MOUSSE																
PATTIES																
TARBALLS																
FILM																
NO OIL													X	X	X	X

PAVEMENT: H F S N/A sq. m by N/A orPATTIES / TARBALLS N/A BAGSNEAR SHORE SHEEN? NO BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

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

Photographs:

Roll No. -Frames -

SUBSURFACE OIL

No Pits 0 dug

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM)	BELOW		OIL / FILM COLOR								PIT ZONE				A N A	SUBSURFACE SEDIMENTS
		OF	OR	OL	OF	NO		UO	UC	20	25	30	35	40	45	50	55	SU	U	M	L		

COMMENTS

• No pits dug due to shallow occurrence of bedrock

U.S. Penland

SEGMENT 50121/51009

SUBMISSION A

DATE 4 / 1 / 90

CHECKLIST

- ☒ N Arrow
- ☒ Approx. Scale
- ☒ Seg/Sub Bdry
- ☒ Oil Dist.
- ☒ Width
- ☒ Length
- ☒ % Cover
- ☒ Substrate Character
- ☒ Est. HWA/LVR
- ☒ SSL
- ☒ Profile Location(s)
- ☒ Profile(s)
- ☒ Pit Location(s)
- ☒ Photo Location(s)

LEGEND

1 Δ

PR - No Subsurface Oil

2 Δ

PR - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

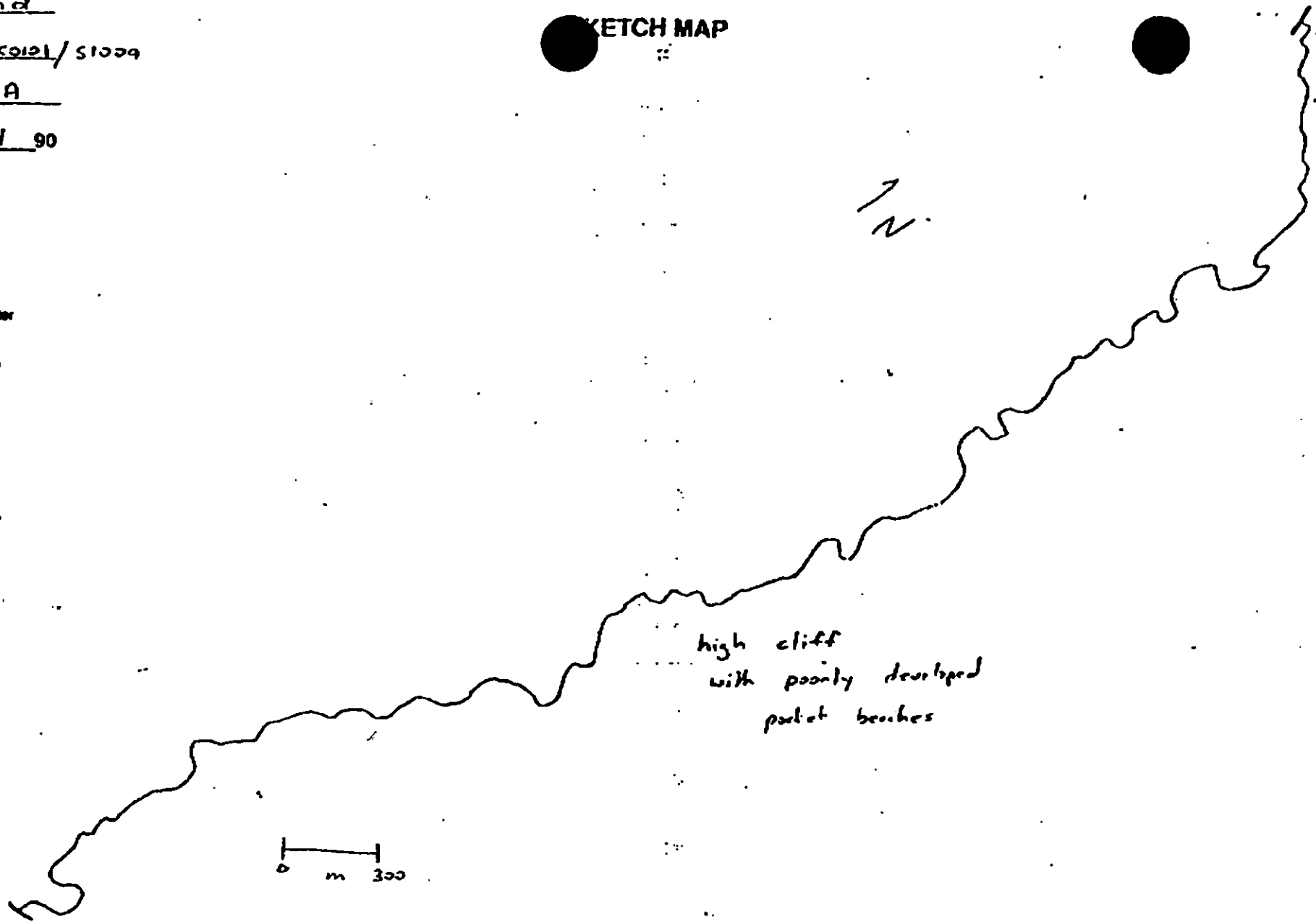
Splashed Distribution

Oiled Vegetation

1 $\Rightarrow$

Photo location, direction,
and number

SKETCH MAP



Character Length (m): AP 0 PO 0 CV 0 CT 0 ST 0 MS 0 PT 0 TB 0 FL 0 NO 12717

REVISED 10/2/89

K0101

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22/90

Segment ST/ S1009 Subdivision A Date (mo / day / yr) 4/10/90
Time (24 hr) 13:00 Biologist SP16HT

- (A) Substrate type and % of segments:
(1) Bedrock (2) Boulder (3) Cobble (4) Pebble (5) Sand (6) Silt
- (B) Overall % cover of biota (% of segment): Dense Moderate Low
- (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	
5			5	5	5	5	5	5	5	5	5	
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:

Ecological Considerations:

Inaccessible — no observations

KODIAK ECOLOGICAL CONSTRAINTS

- 1A** ~~Salmon fry nursery area (4/15 to 7/31)~~
1B ~~Salmon stream trout - spawning (7/15 to 8/15)~~
 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** Kotol Bay Hatchery release
 Pink salmon - late May, early June; Chum salmon - June; Sockeye salmon - early July.
- 1H** Remote release site
- 1I** Gill net area
- 1J** Purse seine area
 Mainland, West side Kodiak, Shuyak & Moser/Olga Bay - 6/9 to 10/1.
 East side Kodiak, East side Afognak - 7/4 to 10/1.
- 1K** Purse seine hook-off
- 1L** Set net sites
 USFWS setnet uplands permit 5/15 to 9/15.
- For Codes 1C through 1L contact ADF&G for specific dates, locations and constraints.
- 2M** Herring spawning (4/15 to 6/30)
 Restrict boat traffic to essential minimum. Avoid damage to uncoiled intertidal and subtidal algae and seagrass. Contact ADF&G for specific dates and locations.
- 3N, 3P** Harbor seal and sea lion pupping (5/10 to 6/30)
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 3O, 3Q** Harbor seal and sea lion molting (8/15 to 9/15)
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 5R** Seabird colony (5/1 to 6/31)
 Restrict air traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance. Contact ADF&G and USFWS prior to treatment.
- 5S** Shorebird/waterfowl concentration (4/1 to 5/15)
 Restrict all activity to essential minimum, especially air traffic.
- 5T** All Bald Eagle nests (3/1 to 6/1)
 Active Bald Eagle nests (3/1 to 9/1)
 Restrict air traffic to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates.
- 6U** Recreation: Tent sites (6/1 to 9/15)
- 6V** Anchorages (6/1 to 9/15)
- 6W** Forest Service cabins (6/1 to 9/15)
- 6X** Lodge (6/1 to 9/15)
- 6Y** Special use destination
- 7Z** Subsistence area: Salmon harvesting (6/1 to 9/30)
- 7HH** Finfish harvesting
- 7II** Deer harvesting (8/1 to 1/7)
- 7JJ** Invertebrate harvesting
- 7KK** Bear harvesting (4/1 to 5/15 and 10/25 to 11/30)
 For Codes 7Z through 7JJ contact ADF&G and Chenega Corporation for specific dates, locations, and constraints.

SI-7

SI-8

↓ KOD 181A

SI-9

XXXX Wide

//// Medium

---- Narrow

TTTT Very Light

ADEC Segment Length: 13917m

Map Key: KOD-181c

Name: Penland

Date: 4-1-90



TO
KOD
1810

SI-9

A

XXXX B

C

SI-9

ADEC Segment Length: 13917m

XXXX Wide

//// Medium

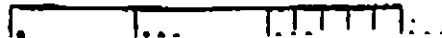
---- Narrow

TTTT Very Light

Map Key: KOD-181a

Name: Pealard

Date: 4-1-90



REGION: KODIAK

SEGMENT: ST/K01-01-SI-009

SUBDIVISIONS: B (2 OF 3)

SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-009 SUBDIVISION B (2 OF 3) DATE 4/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

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

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid any unnecessary disturbance or damage to unoiled biota and substrate. One eagle nest in Subdivision B.

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 59 m: Medium 0 m: Narrow 0 m: V.Light 0 m: No Oil 0 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: _____ Breakup	☐ Beach Cleaner
☐ Removal	☐ Other (see comments)

COMMENTS: Recommend bioremediation of cover and coat areas as indicated on sketch map. Work should be conducted only with approval from ADF&G and USFWS due to above listed constraints.

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____
EXXON _____
NOAA _____
USCG _____

FOSC: _____ DATE: _____

KODIAK ECOLOGICAL CONSTRAINTS

- 1A** ~~Salmon fry nursery area (4/31 to 7/31)~~
1B ~~Salmon fry nursery area (4/31 to 7/31)~~
 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** **Kotol Bay Hatchery release**
 Pink salmon - late May, early June; Chum salmon - June; Sockeye salmon - early July.
- 1H** **Remote release site**
- 1I** **Gill net area**
- 1J** **Purse seine area**
 Mainland, West side Kodiak, Shuyak & Moser/Olga Bay - 6/9 to 10/1.
 East side Kodiak, East side Afognak - 7/4 to 10/1.
- 1K** **Purse seine hook-off**
- 1L** **Set net sites**
 USFWS setnet uplands permit 5/15 to 9/15.
- For Codes 1C through 1L contact ADF&G for specific dates, locations and constraints.
- 2M** **Herring spawning (4/15 to 6/30)**
 Restrict boat traffic to essential minimum. Avoid damage to uncoiled intertidal and subtidal algae and seagrass. Contact ADF&G for specific dates and locations.
- 3N, 3P** **Harbor seal and sea lion pupping (5/10 to 6/30)**
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 3O, 3Q** **Harbor seal and sea lion molting (8/15 to 9/15)**
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 5R** **Seabird colony (5/1 to 8/31)**
 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 (6/1 to 9/30)**
- 7HH** **Finfish harvesting**
- 7II** **Deer harvesting (8/1 to 1/7)**
- 7JJ** **Invertebrate harvesting**
- 7KK** **Bear harvesting (4/1 to 5/15 and 10/25 to 11/30)**
- For Codes 7Z through 7JJ contact ADF&G and Chenega Corporation for specific dates, locations, and constraints.

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / K0101 / S1009 SUBDIVISION: B DATE 4-1-90NOAA
USECNAME John Naughton SIGNATURE John J. Naughton☒ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTED

Oil found among boulders and cobbles with sheen seen in water at mid to lower intertidal. However, very hard beach to clean - no boat access because of rocky barrier. This area also has dense Littorine snail cover and wildlife (deer, bear, eagle) which would be impacted by cleanup operations.

ADEC

NAME Scott Shelton SIGNATURE Scott Shelton☐ NO TREATMENT RECOMMENDED☒ TREATMENT SUGGESTEDCOMMENTS K0101 / S1009 Sub. B.

Effected Impact Area 60M x 20 meters. NO pits Bedrock in oiled area (0 to 20 cm) below surface. Deposits of Clay 5 cm below surface has acted as a barrier - Oil Mixer with sediment can be found between boulders and cobble on the underside of boulders. Thickness to 2MM in some areas. Weathered coat on Boulder/Cobble in impact zone can be observed. Cover impacted upper-tidal, and coat over Supratidal location. Weathered scattered mussel patches observed in the supratidal zone. Difficult Access Area.

LAND MANAGER

NAME Ray Burger AONR SIGNATURE Ray Burger☐ NO TREATMENT RECOMMENDED☒ TREATMENT SUGGESTED

COMMENTS

- Almost entire upper-tidal area has cover a coat that is retrievable
- Access difficult with ~~small~~ large craft but Bell 206 or Aron raft can get in
- Eagle nest w/ 100m
- Area under consideration for Shuyak State Park addition.
- Area landable/campable (small craft)

SHORELINE OILING SUMMARY

REVISION NO. 03/23/90

OG Penland NOAA USCG Naughton SEGMENT ST/ K0101/S1009
 BIO Spight LAND REP Bryon ADNR SUBDIVISION B
 EXXON Bryon ADEC Shelton TIME 2:55:10 3:17
 TEAM NO.: 19 TIDE LEVEL: 2 ft. to 4 ft. DATE 4/1/90
 EST. SUBDIVISION LENGTH: 100 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: N to S
 SURFACE SEDIMENTS: R 20 % B 60 % C 20 % P 0 % G 0 % S 0 % M 0 % V 0 %
 SLOPE: Lang 20 % Hang 50 % Vert 30 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 40 100m M 0 m N 0 m VL 0 m NO 20 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR					IMPACTED ZONES			
	10	15	10	15	1	2	3	4	5	SU	U	M	L
ASPHALT PAVEMENT													
POOLED													
COVER	X				X	X				X			
COAT					X	X				X			
STAIN													
MOUSSE													
PATTIES													
TARBALLS													
FILM													
NO OIL											X	X	

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

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs	X		
Vegetation			
Trash			
Debris			

DEBRIS COLLECTED
☐ YES ☒ NOTYPE N/A#BAGS 0

Photographs:

Roll No. 19-3Frames 24-28

SUBSURFACE OIL

No Pits Dug

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CL)	BELOW		OIL / FILM COLOR	PIT ZONE				A N A	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UO	UC		SU	U	M	L		
0							-									
							-									
							-									
							-									
							-									
							-									

COMMENTS

- No Pits Dug due to shallow bedrock
- oiled zone is ~ 60m x 20m
- some oil is found on the log debris

OG Perla

SKETCH MAP

SEGMENT ST/ K0101/S1009

SUBDIVISION 0

DATE 4 / 1 90

CHECKLIST

- ✓ N Arrow
- ✓ Approx. Scale
- ✓ Seg/Sub Bdry
- ✓ Oil Dist.
- Width
- Length
- % Cover
- ✓ Substrate Character
- ✓ Ext. HAZ/L/V/L
- ✓ SSL
- Profile Location(s)
- Profile(s)
- PI Location(s)
- Photo Location(s)

LEGEND

1 ▲

Pa - No Subsurface Oil

2 ▲

PI - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

Splashed Distribution

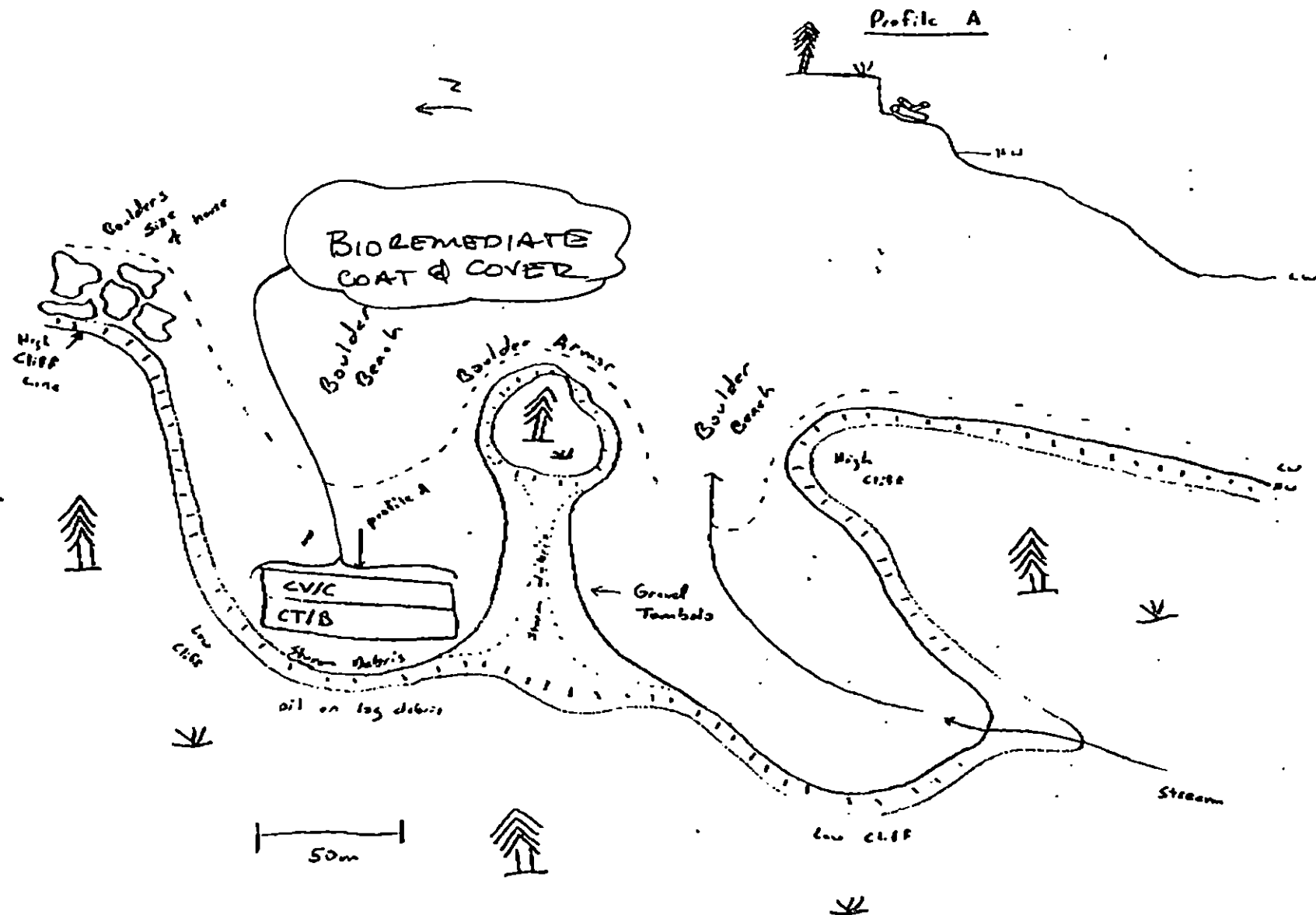
Oiled Vegetation

1 ➡

Photo location, direction, and number

Character Length (m): AP 0 PO 0 CV 100 CT 100 ST 0 MS 0 PT 0 TB 0 FL 0 NO 70

REVISION 000000



FR-09-1590 13:33 FROM EXXON KODIAK TO 15643771 P.03

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22

Segment ST/ SI-9 Subdivision B Date (mo / day / yr) 4/1/90
 Time (24 hr) 2:41 Biologist SMITH Red Rock

- (A) Substrate type and % of segments:
 (1) Bedrock 50 (2) Boulder 30 (3) Cobble 20 (4) Pebble (5) Sand (6) Silt
 (B) Overall % cover of biota (% of segment): Dense 30 Moderate 30 Low 40
 (C) Density, substrate preference (by number from A, above), & vertical zonation of major taxa: (upper-U; mid-M; low tidal-L):
 juveniles / adults (X), new settlement (O)

Photographs:
 Roll No.
 Frames

BARNACLES

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

NOT PRESENT

Wildlife Observations/ General Comments:

Bear sign, deer: Eagle nest (ST)

Kelp offshore; lots of debris

Sensitivity 1A; 1B. Stream on adjacent beach

Ecological Considerations:

locally very dense Littorina. Low level "Red zone" dense algae including Fucus.

KOD
1810

SI-9

A

B

C

SI-9

XXX Wide

//// Medium

--- Narrow

TTTT Very light

ADEC Segment Length: 13917m

Map Key: KOD-181a

Name: Penland

Date: 4-1-90



SI-7

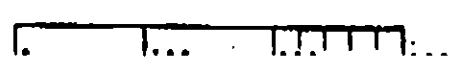
SI-8

↓ KOD 181A

SI-9

XXXX Wide
 //// Medium
 --- Narrow
 TTTT Very Light

ADEC Segment Length: 13917m



Map Key: KOD-181c

Name: Penland

Date: 4-1-90

REGION: KODIAK

SEGMENT: ST/K01-01-SI-009

SUBDIVISIONS: C (3 OF 3)

SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-009 SUBDIVISION C (3 OF 3) DATE 4/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (4/15 to 7/31)

1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

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 0 m: No Oil 1230 m

Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

X No Treatment Recommended

_____ Treatment Recommended

_____ Manual Pickup

_____ Bioremediation

_____ Tarmat: _____ Breakup

_____ 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: _____

KODIAK ECOLOGICAL CONSTRAINTS

1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)

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 Kotol Bay Hatchery release

Pink salmon - late May, early June; Chum salmon - June; Sockeye salmon - early July.

1H Remote release site

1I Gill net area

1J Purse seine area

Mainland, West side Kodiak, Shuyak & Moser/Olga Bay - 6/9 to 10/1.
East side Kodiak, East side Afognak - 7/4 to 10/1.

1K Purse seine hook-off

1L Set net sites

USFWS setnet uplands permit 5/15 to 9/15.

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

2M Herring spawning (4/15 to 6/30)

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

3N, 3P Harbor seal and sea lion pupping (5/10 to 6/30)

Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.

3O, 3Q Harbor seal and sea lion molting (8/15 to 9/15)

Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.

5R Seabird colony (5/1 to 8/31)

Restrict air traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance. Contact ADF&G and USFWS prior to treatment.

5S Shorebird/waterfowl concentration (4/1 to 5/15)

Restrict all activity to essential minimum, especially air traffic.

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

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

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

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

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

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

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

6Y Special use destination

7Z Subsistence area: Salmon harvesting (6/1 to 9/30)

7HH Finfish harvesting

7II Deer harvesting (8/1 to 1/7)

7JJ Invertebrate harvesting

7KK Bear harvesting (4/1 to 5/15 and 10/25 to 11/30)

For Codes 7Z through 7JJ contact ADF&G and Chenega Corporation for specific dates, locations, and constraints.

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / K0101 ST 009 SUBDIVISION: C DATE 4-1-90NOAA
1000NAME John Naughton SIGNATURE John J. Naughton☒ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTED

No oil observed.

ADEC
NAME Scott Shelton SIGNATURE Scott Shelton☒ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTED

K0101 / ST009 Sub. C.

Helicopter fly by - NO oil observed.
High energy beach - cliffs broken coast line no
beach access.

LAND MANAGER

NAME Ray Burger ADNR SIGNATURE Ray Burger☐ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTED

Cliffs prevent access / no assessment

Area considered for Shuyak State Park addition

OG Penland ^{NOAA} ~~USEC~~ Naughton SEGMENT ST/ Koia/ Slugg
 BIO Snight LAND REP Oregon - ADNR SUBDIVISION C
 EXXON Ayres ADEC Shelfton TIME 2:55 to 3:17
 TEAM NO.: 19 TIDE LEVEL: 2 ft to 4 ft DATE 4/1/90
 EST. SUBDIVISION LENGTH: 900 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☐ Foot ☐ Boat ☒ Helo WORKING DIRECTION: N to S
 SURFACE SEDIMENTS: R 40 % B 40 % C 20 % P 0 % G 0 % S 0 % M 0 % V 0 %
 SLOPE: Long 10 % Hang 20 % Vert 70 % WAVE EXPOSURE: ☐ Low ☐ Med ☒ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 0 m NO 900 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR						IMPACTED ZONES			
	C	B	P	R	BR BL	PR RW	RY SL	BR IL	LR	SU	U	M	U	
ASPHALT														
PAYMENT														
POOLED														
COVER														
COAT														
STAIN														
MOUSSE														
PATTIES														
TARBALLS														
FILM														
NO OIL														

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			
Vegetation			
Trash			
Debris			

DEBRIS COLLECTED
☐ YES ☒ NOTYPE N/A#BAGS 0

Photographs:

Roll No. -Frames -

SUBSURFACE OIL

No Pits Dug

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	SL BR	ORL RW	GY BL	YOR TL	LRH	SU	U	M	U			
							.														
							.														
							.														
							.														
							.														
							.														

COMMENTS

No Pits Dug due shallow occurrence of bedrock.

SEGMENT 0101 / SI 009

SUBDIVISION C

DATE 4 / 1 / 90

CHECKLIST

- ☒ N Arrow
- ☒ Approx. Scale
- ☒ Seg/Sub Bndry
- ☒ Off Dist.
- ☒ Width
- ☒ Length
- ☒ % Cover
- ☒ Substrate Character
- ☒ Est. HAT/L/WL
- ☒ SSL
- ☒ Profile Location(s)
- ☒ Profile(s)
- ☒ Pt Location(s)
- ☒ Photo Location(s)

LEGEND

1 Δ

Pt1 - No Subsurface Oil

2 Δ

Pt1 - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

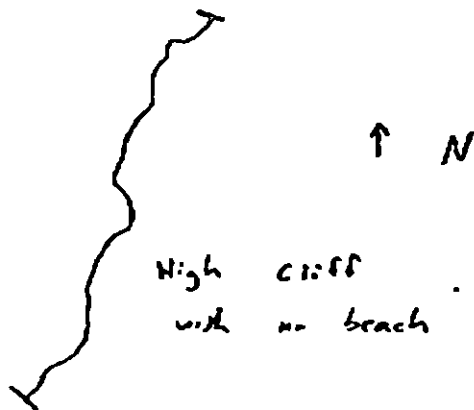
Splashed Distribution

Oil-d Vegetation

1 ➡

Photo location, direction,
and number

SKETCH MAP



300m

Character Length (m): AP 0 PO 0 CV 0 CT 0 ST 0 MS 0 PT 0 TB 0 FL 0 NO 900

REVISION 030400

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22/90

Segment ST / Kolo1 51009 Subdivision C Date (mo / day / yr) 4/10/90
 Time (24 hr) 13:00 Biologist SP16HT

- (A) Substrate type and % of segments:
 (1) Bedrock (2) Boulder (3) Cobble (4) Pebble (5) Sand (6) Silt
- (B) Overall % cover of biota (% of segment): Dense Moderate Low
- (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	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
5			5	5	5	5	5	5	5	5	5
6	6	-	6	6	6	6	6	6	6	6	6

NOT PRESENT

MYTILUS

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

NOT PRESENT

GASTROPODS

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

NOT PRESENT

FUCUS

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

NOT PRESENT

Wildlife Observations/ General Comments:

Ecological Considerations:

Inaccessible — no observations

↑
KOD
181C

SI-9

A

B

C

XXX Wide

//// Medium

---- Narrow

TTTT Very light

SI-9

ADEC Segment Length: 13917m

Map Key: KOD-181a

Name: Penland

Date: 4-1-90



SI-7

SI-8

↓ LOD 181A

XXXX Wide

//// Medium

--- Narrow

TTTT Very Light

SI-9

ADEC Segment Length: 13917m

Map Key: KOD-181c

Name: Penland

Date: 4-1-90



REGION: KODIAK

SEGMENT: ST/K01-01-SI-011

SUBDIVISIONS: A (1 OF 2)

SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-011 SUBDIVISION A (1 OF 2) DATE 6/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

5R Seabird colony (5/1 to 9/1)
See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

ARCHAEOLOGICAL CONSTRAINTS:

If cultural resources are uncovered during shoreline treatment, stop work in the vicinity, mark the location of the find and contact Exxon's Cultural Resource Program immediately (564-3274 (Anchorage) or 229-1508 (24 hrs.)).

SHPO SIGNATURE: _____ DATE: _____

OILING CATEGORIZATION:

Wide 21 m: Medium 21 m: Narrow 0 m: V.Light 10 m: No Oil 727 m
Subsurface Oil Observed: Yes X No _____ Maximum Depth 10cm

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 is manual removal of mousse, tarballs and pavement as shown on attached sketch map.

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____
EXXON _____
NOAA _____
USCG _____

FOSC: _____ DATE: _____

KODIAK ECOLOGICAL CONSTRAINTS

- 1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
 1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
 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, 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 prior to treatment for consultation and/or permit application.
 AGENCY CONTACT PERSON: ADF&G Ken Middleton 267-2290
- 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, 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 Kotol Bay Hatchery release
 Pink salmon - late May, early June; Chum salmon - June; Sockeye salmon - early July.
- 1H Remote release site
 No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, 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 for confirmation and authorization.
 AGENCY CONTACT PERSON: ADF&G Larry Peltz 424-3214
- 1I Gill net area
 1J Purse seine area
 Mainland, West side Kodiak, Shuyak & Moser/Oiga Bay (6/9 to 10/1)
 East side Kodiak, East side Afognak (7/4 to 10/1)
 1K Purse seine hook-off
 1L Set net sites
 Contact ADF&G for confirmation - dates and locations may vary. 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 Larry Nicholson 424-4791
- 2M Herring spawning (4/15 to 6/30)
 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 Larry Nicholson 486-4791
- 3Q Harbor seal and sea lion pupping (5/10 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. No application of Inipol within two weeks of arrival dates (work window at these sites is limited to 7/2 to 7/31). Contact ADF&G and USFWS prior to treatment for confirmation.
 AGENCY CONTACT PERSON: US National Marine Fisheries Service Steve Zimmerman 586-7235
 ADF&G Don Calkins 267-2403
- 5R Seabird colony (5/1 to 9/1)
 Restrict air and boat traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance from colony. Contact USFWS prior to treatment.
 AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
- 5S Shorebird/waterfowl concentration (4/1 to 5/15)
 Restrict all activity to essential minimum, especially air traffic. Contact USFWS and ADF&G for confirmation.
 AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
 ADF&G Tom Roth 267-2206
- 5T All Bald Eagle nests (3/1 to 6/1)
 Active Bald Eagle nests (3/1 to 9/1)
 Restrict air traffic and all disturbance to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates.
 AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
- 6U Recreation: Tent sites (6/1 to 9/15)
 6V Anchorages (6/1 to 9/15)
 6W Forest Service cabins (6/1 to 9/15)
 6X Lodge (6/1 to 9/15)
 6Y Special use destination
- 7Z Subsistence area: Salmon harvesting (6/1 to 9/30)
 7H Finish harvesting
 7I Deer harvesting (6/1 to 1/7)
 7J Invertebrate harvesting
 7K Bear harvesting (4/1 to 5/15 and 10/25 to 11/30)
 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 267-2350

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / KI-01/SI-II SUBDIVISION: SI-II A&B DATE 6/1/90

NOAA
USCG

NAME

Tom Callahan

SIGNATURE

Tom Callahan

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

Mousse incorporated in sediments is still soft but has potential to harden and form ^{hard} asphalt. Occurs in selected spots above "green zone". Suggest manual removal of mousse/sediment mixture or break-up and leave in order to prevent formation of hard asphalt.

Cover observed on rock faces has hardened and would require scraping to remove, spot washing would not remove it.

ADEC

NAME

Terry Ellsworth

SIGNATURE

Terry Ellsworth

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

Recoverable oil occurs as soft asphalt and mousse interstitial between boulders and cobbles and on bedrock. Cover and coat is found on rock faces in the high tide zone as well as on bedrock outcrop. The major area of impact is found on the south east side of the island. A smaller area is located at the north end. Manual removal of the asphalt and mousse is recommended in these two areas. Access to the smaller of the two areas may be difficult.

LAND MANAGER

NAME

Mike Edwards

SIGNATURE

Mike Edwards

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

Little Foot Island is state land managed by ADEC. The oiled area located on the south east end of the island is an area of low to medium ^{WAVE} energy. Naturally occurring small shores in the mid-intertidal zone were damaged as a result of oil present. This oil mousse mixed with gravel, sediment and cobbles are recommended for manual removal. A smaller area on the North end

SHORELINE OILING SUMMARY

REVISION NO. 241220

OG James Springer USCG/NOAA T. Callahan SEGMENT STI 15-101 / SI-11
D. Lohse LAND REP M. Goodwin SUBDIVISION A (1 OF 2)
ON A F&G, J. Barnhart ADEC T. Elkworth TIME 12:15 to 15:00
 TEAM NO. 19 TIDE LEVEL +6 TO +2 DATE 06/01/1990
 EST. SUBDIVISION LENGTH: 725 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☒ Helo WORKING DIRECTION: SW to NE
 SURFACE SEDIMENTS: R 30 % B 40 % C 20 % P 5 % G 5 % S % M % V %
 SLOPE: Lang 10 % Hang 50 % Vert 40 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 20 m M 30 m N m VL 15 m NO 660 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	IC	IS	IP	IS	SL	DL	BL	GY	BR	TR	LR		SU	U	M	LI
ASPHALT PAVEMENT		X				X									X	
POOLED																
COVER																
COAT			X			X							X			
STAIN																
MOUSSE			X						X				X			
TIES																
TARBALLS				X					X				X			
FILM																
NO OIL																X

PAVEMENT H F (S) 100 sq. m by 5 cmPATTIES / TARBALLS 1 BAGS

NEAR SHORE SHEEN? (NO) BR RW SL TL

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

DID YOU COLLECT DEBRIS?

YES ☐ NO ☒TYPE #BAGS

Photographs:

Roll No. Frames

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM)	BELOW		OIL / FILM COLOR						PIT ZONE				A N A	SHEEN (Y/N)	▼ 4	SURFACE - SUBSURFACE SEDIMENTS			
		OP	OR	OL	OF	NO		VO	UC	SL PR	DL FW	GY S	BR TL	LR	SU	U	M	U								
1	20				X		0-10		X					X		X										P/PGC
2	10					X	.		X									X				BR	7		CP/CPG	
							.																			
							.																			
							.																			
							.																			
							.																			

COMMENTS RWSheen on puddles in MITZ.

Originally surveyed as one subdivision. Since the subdivision was not contiguous, it was broken into subdiv A & B after agency comments. Pocket 1 is in subdiv. A Pocket 2 is in subdiv. B.

OG

Springer

SEGMENT ST/ K-101/SI-11

SUBDIVISION ADATE 6/1/90

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

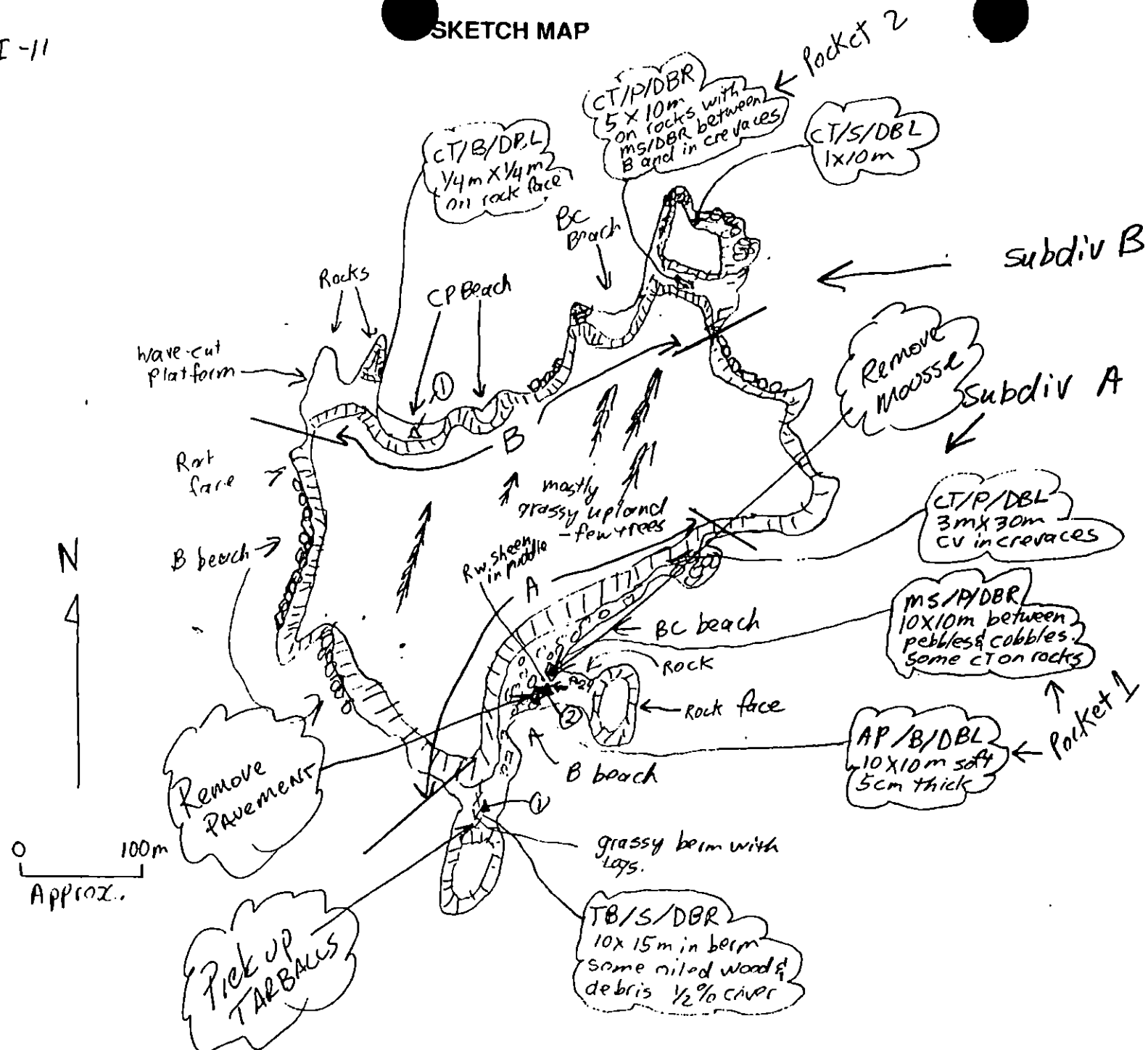
Splashed Distribution

Oiled Vegetation

1 ➔

Photo location, direction, and number

SKETCH MAP

Oil Character Length (m): AP 10 PO CV CT 30 ST MS 10 PT TB 15 FL NO 660

REVISION: 02/24/90

SHORELINE ECOLOGICAL SUMMARY

REVISED 11-22-90

Segment ST/K1-1 Subdivision FILE Date (mo / day / yr) 6-1-75Time (24 hr) 12:15 Biologist David Lehrer

- (A) Substrate type and % of segments:
 (1) Bedrock 30 (2) Boulder 40 (3) Cobble 20 (4) Pebble 5 (5) Sand 5 (6) Silt
- (B) Overall % cover of biota (% of segment): Dense 30 Moderate 40 Low 30
- (C) Density, substrate preference (by number from A, above), & vertical zonation of major taxa: (upper-U; mid-M; low tidal-L); juveniles / adults (X), new settlement (3)

 Photographs:
 Roll No. ST-19-100
 Frames 23, 24

BARNACLES

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	NOT PRESENT
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	
6	6	6	6	6	6	6	6	6	6	6	6	

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	NOT PRESENT
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	
6	6	6	6	6	6	6	6	6	6	6	6	

GASTROPODS

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

FUCUS

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

Wildlife Observations/ General Comments:

See page 2

Ecological Considerations:

One gull nesting colony and one oystercatcher nesting area were observed in this segment

Segment - 57/KI-1, SE-112

2000. Jan 4 4B

1-1-11

3. David Lohr

Wildlife Observations/General Comments

1. present in low intertidal: *Iridaea*, *Alaria*, unknown yellow sponge, *Rhodomenia*, *Halosaccus*, *Siphonaria*, *Ralfsia*, *Epicetus*, *Ulva*, *Porphyra*, *Rhodomenia*, coralline algae, *Katharina tunicata*, unknown filamentous red (*Agardhi*?)
- mid intertidal: *Sculpins*, *Scytosiphon*, *Ralfsia*, coralline algae, *Rhodomenia*, *Nucella*, *Glossopeltis*, *Endocladia*, *Rhodomenia*, *Orchestoidea*, *Halosaccus*, *Chydophora*, *Porphyra*, unknown yellow sponge, *Alaria*, *Ulva*, *Epicetus*, *Anthopleura*
- high intertidal: *Ulva*
2. One otter, ~8 oystercatchers, 2 ravens, 2 mature bald eagles, and several gulls spotted in area
3. *Littorina* eggs were found underneath mid-intertidal cobble
4. *Ulva* was abundant on high intertidal bedrock, varying from 30-50% cover. However, it did look fairly dried at.
5. Not much of low intertidal in segment was seen due to tidal cycle. However where it was seen, algal cover ranged from 75-80% on bedrock and was ~75% on boulders

Segment 5T/141- 1/5-11

Station A 12

6.1.11

1. Distribution of barnacles and Fucus were patchy
2. Distribution of Littorina eggs was patchy
3. Mortality of Barnacles was ~ 10% on mid-intertidal bedrock (1 site surveyed)

K0101-SI011A

Ecology Map
Resource Codes for Entire
Segment

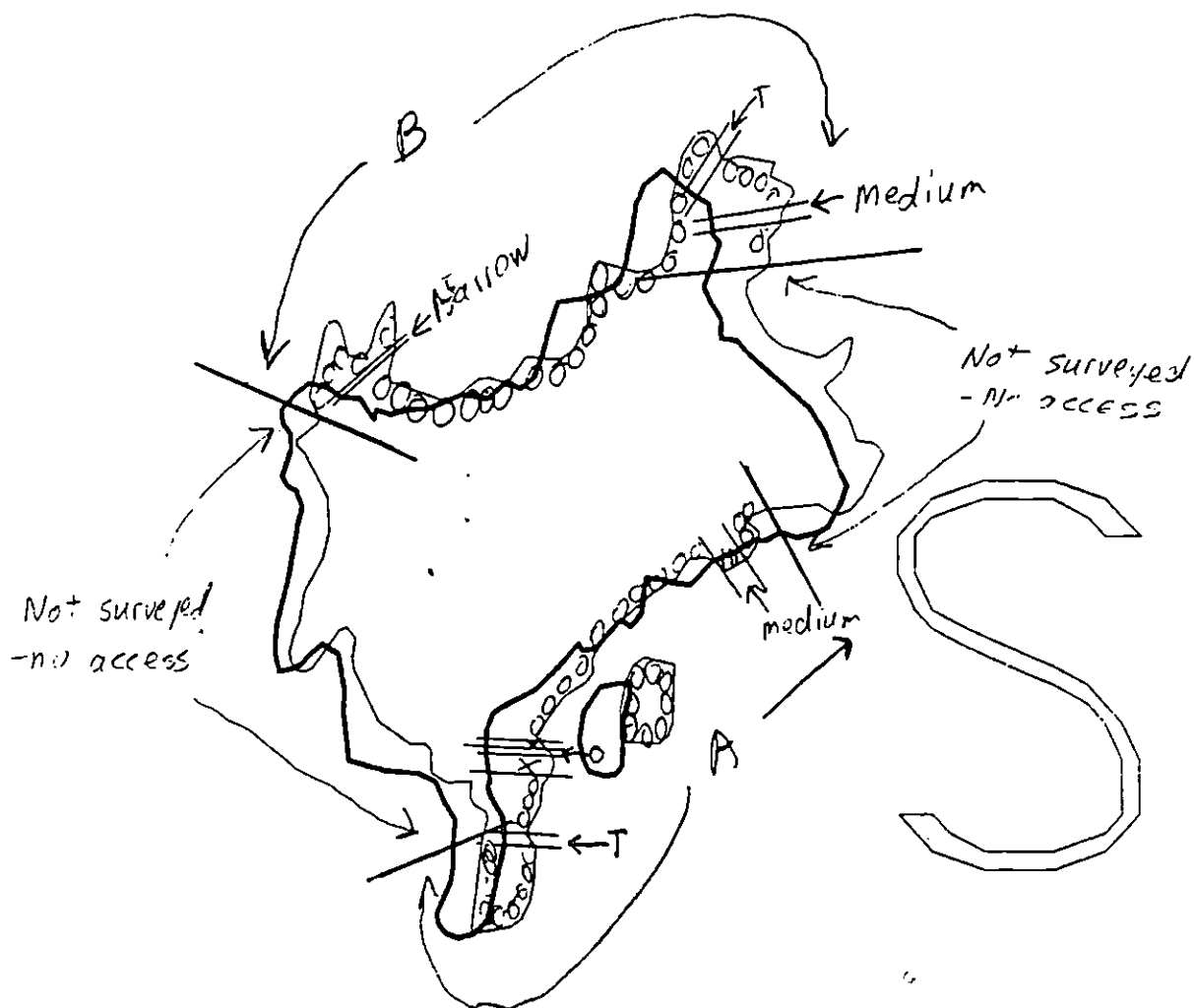
SR



500.0

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

ADCE Sep/Oct 1988 Survey



XXX Wide
 /// Medium
 --- Narrow
 TTTT Very Light

K0101-SI-11-A

Approx. Segment Length: 2484
2300m

Map Key: KOD-SI-11

Name: James S. L. 1721

Date: 6/1/90

SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-011 SUBDIVISION A (1 OF 2) DATE 6/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

5R Seabird colony (5/1 to 9/1)

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

ARCHAEOLOGICAL CONSTRAINTS:

If cultural resources are uncovered during shoreline treatment, stop work in the vicinity, mark the location of the find and contact Exxon's Cultural Resource Program immediately (564-3274 (Anchorage) or 229-1508 (24 hrs.)).

SHPO SIGNATURE: Charles Z. Hume DATE: June 19, 1990

OILING CATEGORIZATION:

Wide 21 m: Medium 21 m: Narrow 0 m: V. Light 10 m: No Oil 727 m
Subsurface Oil Observed: Yes X No Maximum Depth 10cm

RECOMMENDATIONS:

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

COMMENTS: Recommended treatment is manual removal of mousse, tarballs and pavement as shown on attached sketch map.

TAG COMMENTS: BIOREMEDIATION (CUSTOMER) AS REQUIRED FOLLOWING
TARMAT REMOVAL

TAG APPROVAL DATE: 6/16/90

ADEC Roy Munnis

EXXON ANDY TEAL

NOAA Joseph Talbot

USCG G.A. REITER

FOSC: Hy L DATE: 6-27-90

Springer

SEGMENT ST/ K-101/SI-11

SUBDIVISION A

DATE 6/1/90

CHECKLIST

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

LEGEND

1 Δ
Pit - No Subsurface Oil

2 Δ
Pit - Subsurface Oil

CT/C
Continuous Distribution

CT/B
Broken Distribution

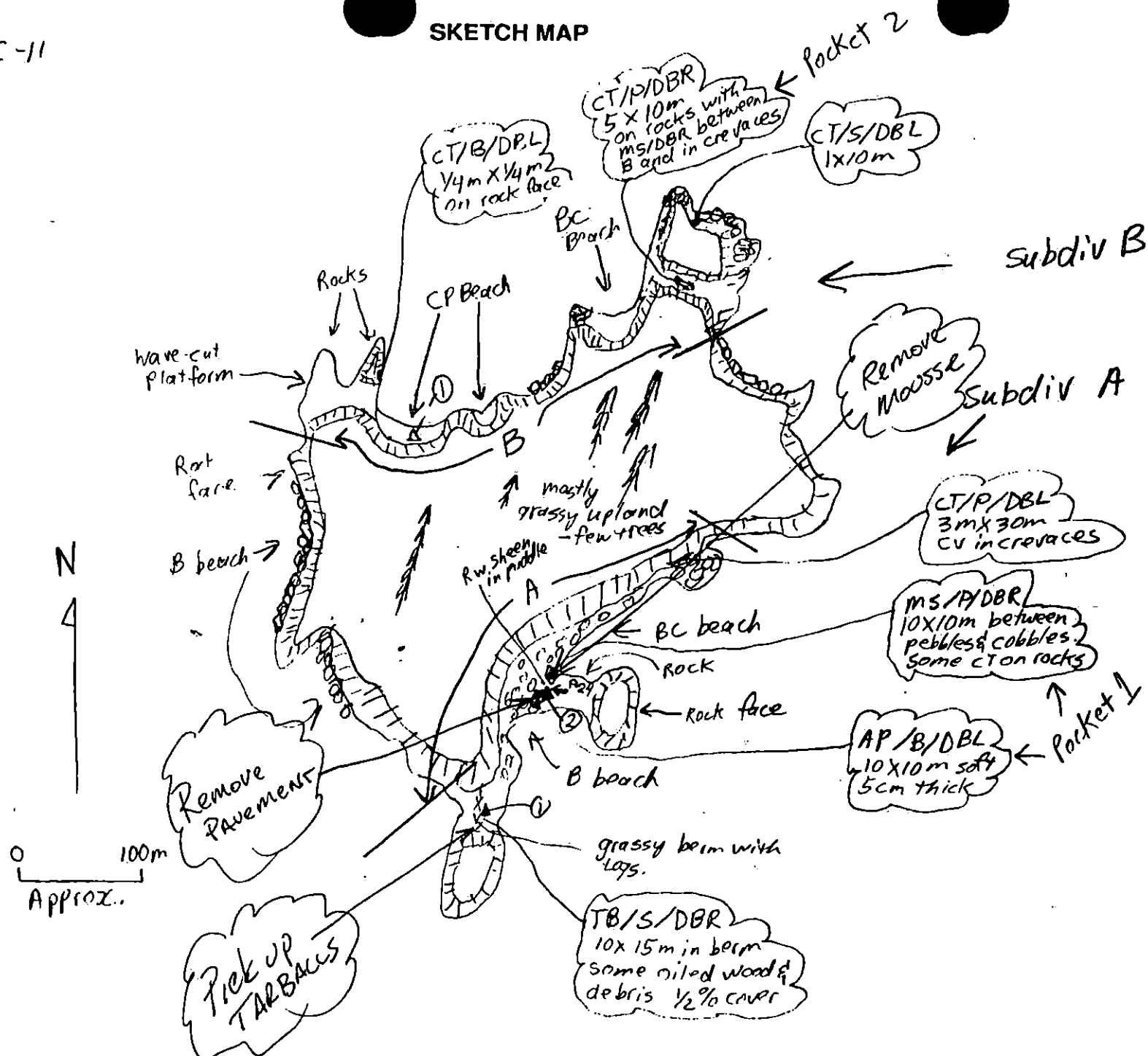
CT/P
Patchy Distribution

CT/S
Splashed Distribution

Oiled Vegetation

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

SKETCH MAP



Oil Character Length (m): AP 10 PO CV CT 30 ST MS 10 PT TB 15 FL NO 660

REVISION: 22/2

K0101-SI0114

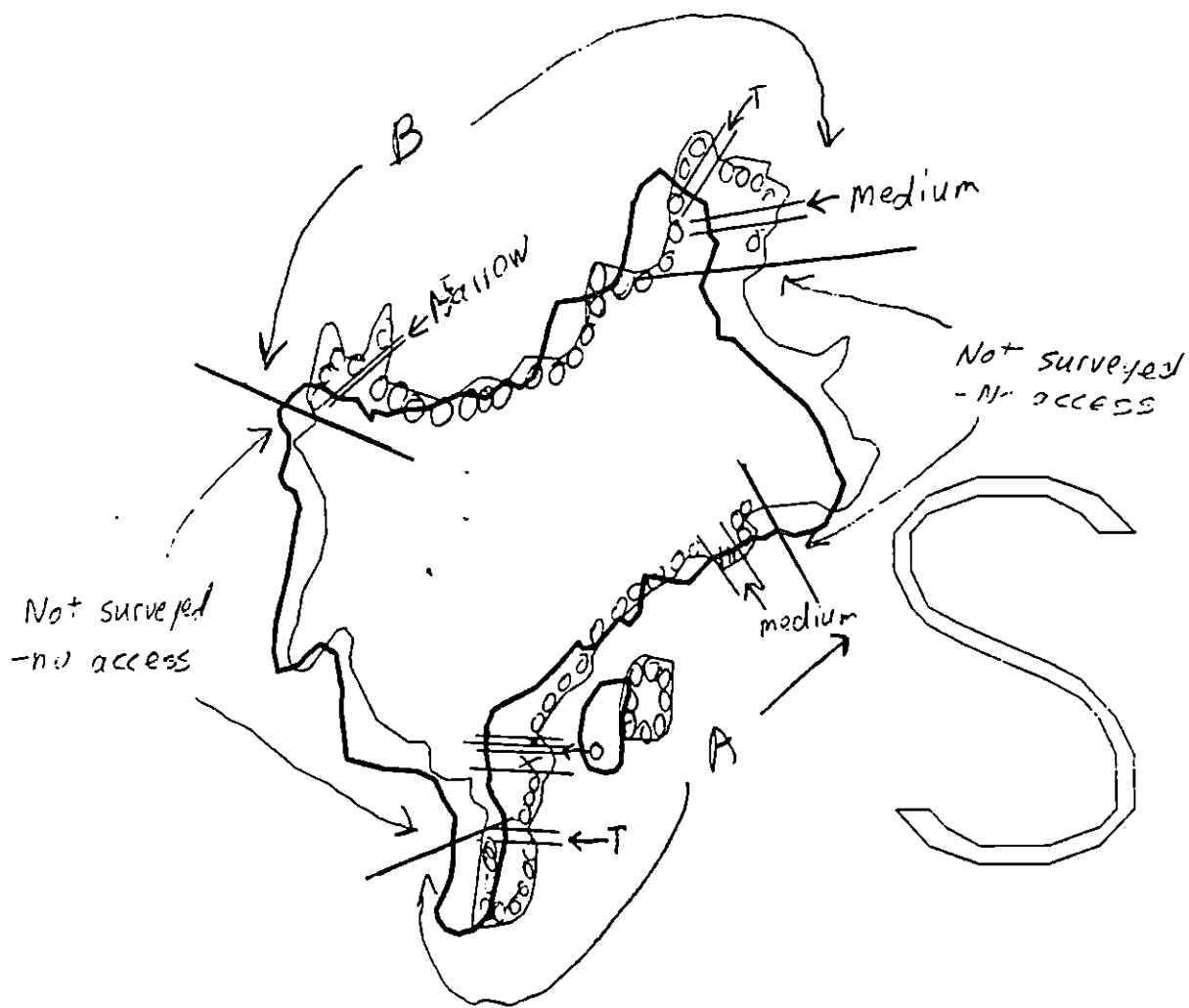
Ecology Map
Resource codes for Entire
Segment

SR



500.0

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



XXXX Wide
 /// Medium
 --- Narrow

KØ1Ø1-SI-11-A

Approx. Segment Length: 2484
 2300m

Map Key: KOD-SI-11

Name: James S. L. 1/21

6/1/90

ADDENDUM: SUBDIVISION CONSTRAINTS

SEGMENT K01-01-SI-011 SUBDIVISION A (1 of 2)

WORK WINDOW

Manual Pickup
Tarmat Removal

OPEN
(USFWS MONITOR REQ.)

Bioremediation*

OPEN
(USFWS MONITOR REQ.)

*No Inpol - Use Customblen Only

ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

5R Seabird Colony

Constraint may be waived by USFWS monitor per conversation of Jill Parker/USFWS to Rex Coulter/Exxon on 7/02-90. Approach must be from the south.

OTHER ECOLOGICAL CONSIDERATIONS

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

FOSC

[Signature]

Date

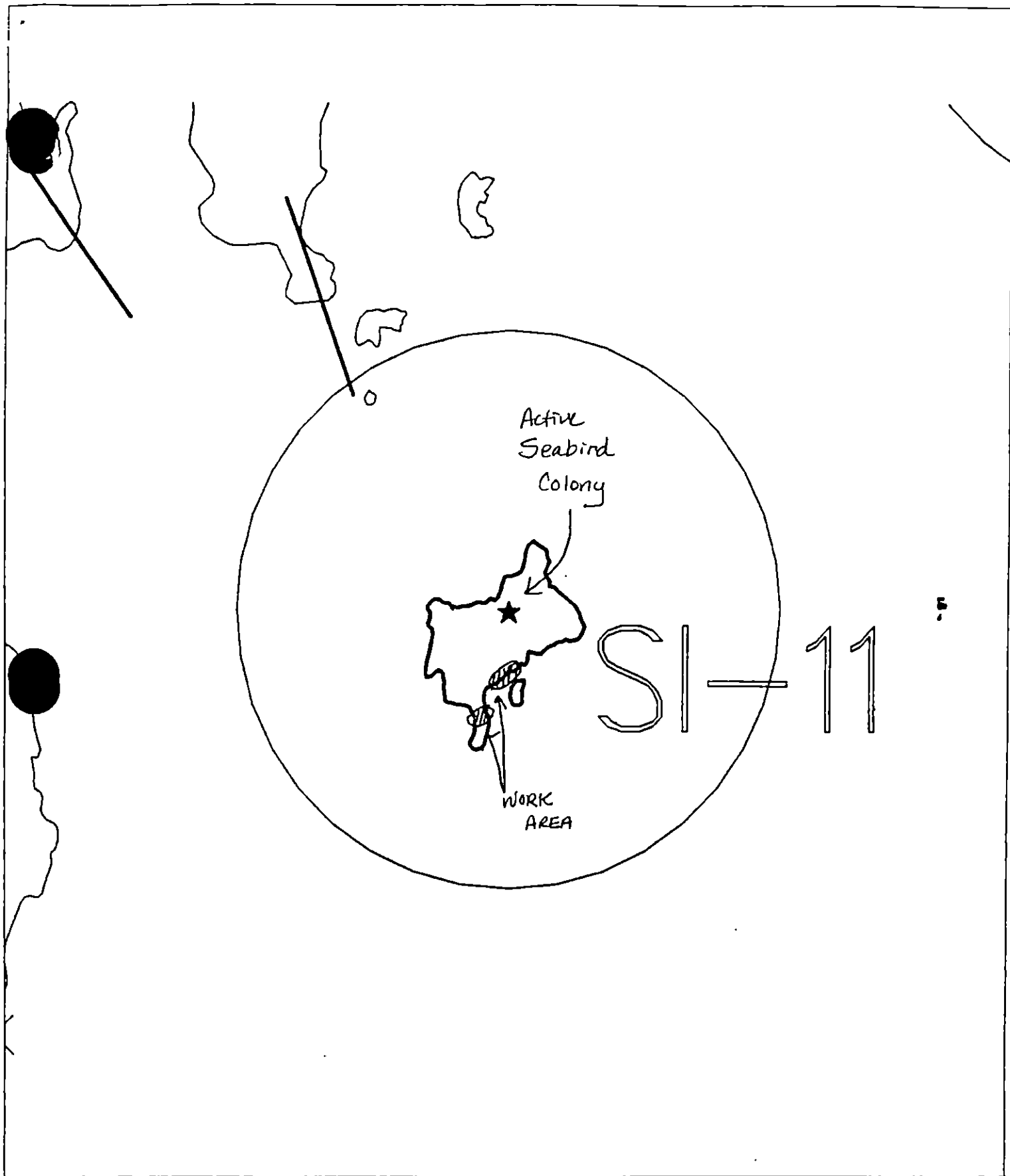
7/3/90

Prepared by

Rex D. Coulter

Date

7-2-90



Exxon Company, USA
Map Key: KOD-SI-11
June 10, 1990



ECOLOGY MAP
SEGMENT K1-1 SI-11
SUBDIVISION A (1 of 2)



★	Seabird Colony
▲	Active Eagle Nest
△	Inactive Eagle Nest

1 inch = 1253 feet

SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-011 SUBDIVISION A (1 OF 2) DATE 6/1/90

ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

5R Seabird colony (5/1 to 9/1)

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

ARCHAEOLOGICAL CONSTRAINTS:

If cultural resources are uncovered during shoreline treatment, stop work in the vicinity, mark the location of the find and contact Exxon's Cultural Resource Program immediately (564-3274 (Anchorage) or 229-1508 (24 hrs.)).

SHPO SIGNATURE: Charles Z. Hume DATE: June 19/1990

OILING CATEGORIZATION:

Wide 21 m: Medium 21 m: Narrow 0 m: V.Light 10 m: No Oil 727 m
Subsurface Oil Observed: Yes X No Maximum Depth 10cm

RECOMMENDATIONS:

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

COMMENTS: Recommended treatment is manual removal of mousse, tarballs and pavement as shown on attached sketch map.

TAG COMMENTS: BIOREMEDIATION (CUSTOMER) AS REQUIRED FOLLOWING
TARMAAT REMOVAL

TAG APPROVAL DATE: 6/16/90

ADEC Ryan Munnis R. Munnis
FOSC: My L DATE: 6-27-90
Joseph Tallant J. Tallant
G.A. REITER G.A. Reiter

REGION: KODIAK

SEGMENT: ST/K01-01-SI-011

SUBDIVISIONS: B (2 OF 2)

SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-011 SUBDIVISION B (2 OF 2) DATE 6/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

5R Seabird colony (5/1 to 9/1)
See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

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 11 m: Narrow 4 m: V.Light 10 m: No Oil 526 m
Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

<u>X</u> 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: _____

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____
EXXON _____
NOAA _____
USCG _____

FOSC: _____ DATE: _____

KODIAK ECOLOGICAL CONSTRAINTS

- 1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
 1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
 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, 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 prior to treatment for consultation and/or permit application.
 AGENCY CONTACT PERSON: ADF&G Ken Middleton 267-2299
- 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, 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 Kotol Bay Hatchery release
 Pink salmon - late May, early June; Chum salmon - June; Sockeye salmon - early July.
- 1H Remote release site
 No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, 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 for confirmation and authorization.
 AGENCY CONTACT PERSON: ADF&G Larry Peltz 424-3214
- 1I Gill net area
 1J Purse seine area
 Mainland, West side Kodiak, Shuyak & Moser/Olga Bay (8/9 to 10/1)
 East side Kodiak, East side Afognak (7/4 to 10/1)
- 1K Purse seine hook-off
 1L Set net sites
 Contact ADF&G for confirmation - dates and locations may vary. 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 Larry Nicholson 424-4791
- 2M Herring spawning (4/15 to 6/30)
 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 eelgrass. 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 Larry Nicholson 486-4791
- 30, 3Q Harbor seal and sea lion pupping (5/10 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. No application of Inipol within two weeks of arrival dates (work window at these sites is limited to 7/2 to 7/31). Contact ADF&G and USFWS prior to treatment for confirmation.
 AGENCY CONTACT PERSON: US National Marine Fisheries Service Steve Zimmerman 586-7235
 ADF&G Don Calkins 267-2403
- 5R Seabird colony (5/1 to 9/1)
 Restrict air and boat traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance from colony. Contact USFWS prior to treatment.
 AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
- 5S Shorebird/waterfowl concentration (4/1 to 5/15)
 Restrict all activity to essential minimum, especially air traffic. Contact USFWS and ADF&G for confirmation.
 AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
 ADF&G Tom Roth 267-2206
- 5T All Bald Eagle nests (3/1 to 6/1)
 Active Bald Eagle nests (3/1 to 9/1)
 Restrict air traffic and all disturbance to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates.
 AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
- 6U Recreation: Tent sites (8/1 to 9/15)
 6V Anchorages (8/1 to 9/15)
 6W Forest Service cabins (8/1 to 9/15)
 6X Lodge (8/1 to 9/15)
 6Y Special use destination
- 7Z Subsistence area: Salmon harvesting (8/1 to 9/30)
 H Finfish harvesting
 I Deer harvesting (8/1 to 1/7)
 J Invertebrate harvesting
 K Bear harvesting (4/1 to 5/15 and 10/25 to 11/30)
 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

SEGMENT ST / KI-01/SI-11 SUBDIVISION: SI-11 A&B DATE 6/1/90

~~NORA~~
USCG

NAME Tom Callahan SIGNATURE Tom Callahan

☐ NO TREATMENT RECOMMENDED

☒ TREATMENT SUGGESTED

COMMENTS

Mousse incorporated in sediments is still soft but has potential to harden and form ^{hard} asphalt. Occurs in selected spots above "green zone". Suggest manual removal of mousse/sediment mixture or break-up and leave in order to prevent formation of hard asphalt.

Cover observed on rock faces has hardened and would require scraping to remove, spot washing would not remove it.

ADEC

NAME Terry Ellsworth SIGNATURE Terry Ellsworth

☐ NO TREATMENT RECOMMENDED

☒ TREATMENT SUGGESTED

COMMENTS

Recoverable oil occurs as soft asphalt and mousse interstitial between boulders and cobbles and on bedrock. Cover and coat is found on rock faces in the high tide zone as well as on bedrock outcrop. The major area of impact is found on the south east side of the island. A smaller area is located at the north end. Manual removal of the asphalt and mousse is recommended in these two areas. Access to the smaller of the two areas may be difficult.

LAND MANAGER

NAME Mike Gaudin SIGNATURE Mike Gaudin

☐ NO TREATMENT RECOMMENDED

☒ TREATMENT SUGGESTED

COMMENTS

Little Foot Island is state land managed by ANR. The oiled area located on the south east end of the island is an area of low to medium ^{WAVE} energy. Naturally occurring small shores in the mid-intertidal zone were damaged as a result of oil present. This oil mousse mixed with gravel, sediment and cobbles are recommended for manual removal. A smaller area on the North end has less oil and should be cleaned by

SHORELINE OILING SUMMARY

REVISION NO. 26-13-90

OG J. Sullivan USEG N. T. Collins SEGMENT STI 8-101/111
 BIO D. Lohse LAND REP M. Gordon SUBDIVISION B (2 OF 2)
 EXXON A & G. T. Barnhart ADEC T. Ellsworth TIME 12:15 to 15:00
 TEAM NO. 19 TIDE LEVEL +6 TO +2 DATE 06/01/90
 T. SUBDIVISION LENGTH: 800 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☒ Helo WORKING DIRECTION: W to E
 SURFACE SEDIMENTS: R 30 % B 40 % C 20 % P 5 % G 5 % S 0 % M 0 % V 0 %
 SLOPE: Long 10 % Hang 50 % Vert 40 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 10 m N 1 m VL 10 m NO 779 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR					IMPACTED ZONES			
	R	B	C	P	SP	BR	OR	GR	BL	SU	U	M	V
ASPHALT PAVEMENT													
POOLED													
COVER													
COAT		X	✓	+	X	✓				X	✓		
STAIN													
MOUSSE													
PATTIES													
TARBALLS													
FILM													
OIL										X	X	X	

PAVEMENT H F S _____ sq. m by _____ cm

PATTIES / TARBALLS _____ BAGS

NEAR 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. _____

Frames _____

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM)	BELOW		OIL / FILM COLOR					PIT ZONE				A N A	SHEEN (Y/N)	↓	SURFACE - SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		VO	VC	SP	BR	OR	GR	BL	SU	U	M	V				
1	35					X	.	X							X							PS/PGS
							.															
							.															
							.															
							.															
							.															
							.															

COMMENTS

Originally surveyed as one subdivision. Since the subdiv. was not contiguous, it was broken into subdiv. A & B after agency comments. Pocket 1 is in subdiv. A. Pocket 2 is in subdiv. B

REVIEWED BAT DATE 6 Jun 90

(11) J. Springer
 SEGMENT SI/K-101/SI-11
 SUBDIVISION B
 DATE 6/1/90

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

CT/C
 Continuous Distribution

CT/B
 Broken Distribution

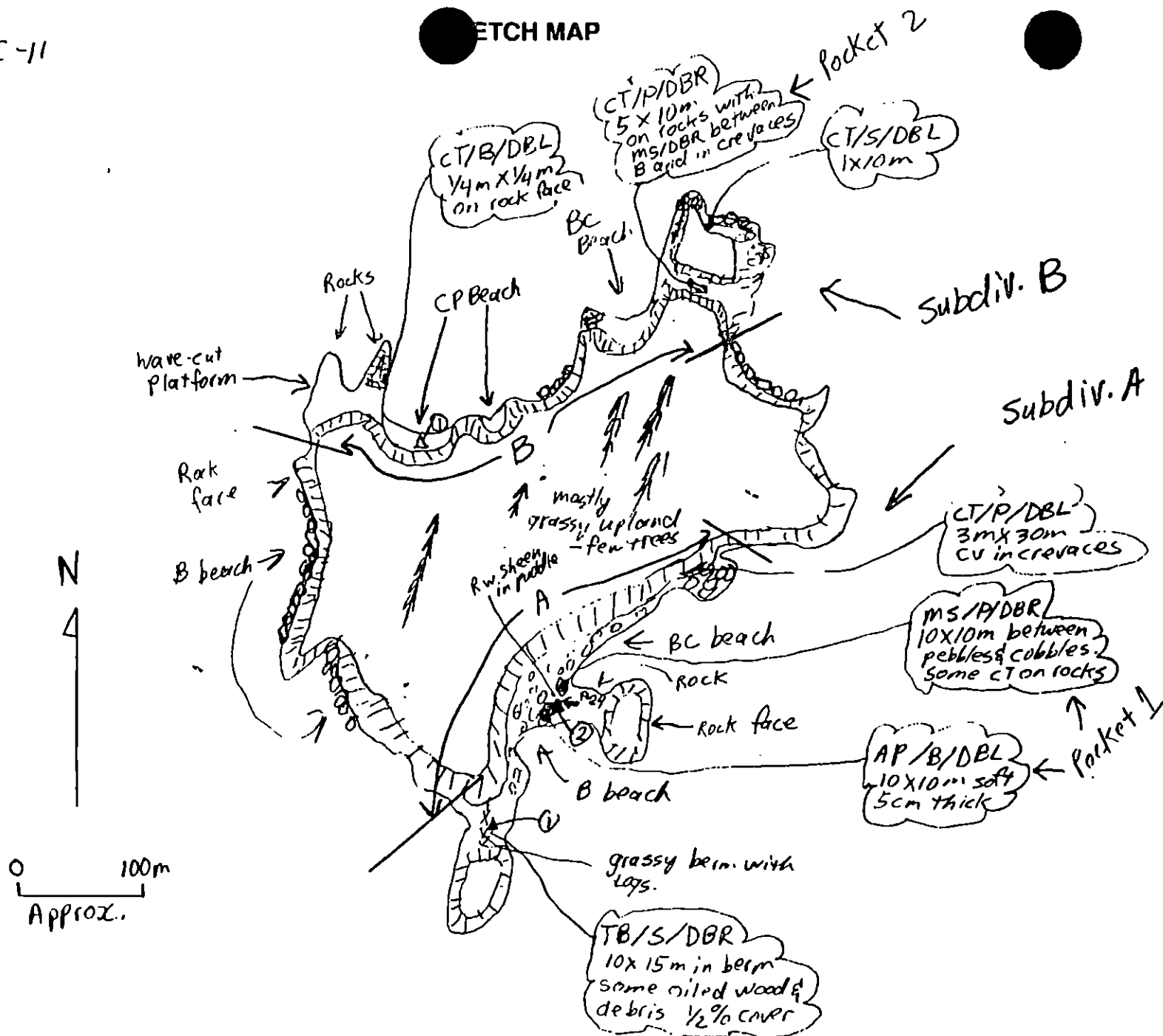
CT/P
 Patchy Distribution

CT/S
 Splashed Distribution

Oiled Vegetation

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

ETCH MAP



Oil Character Length (m): AP _____ PO _____ CV _____ CT 21 ST _____ MS _____ PT _____ TB _____ FL _____ NO 779

REVISION: 03/24/90

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03-22-90

Segment ST/KI-1/ST-114 Subdivision A & B Date (mo / day / yr) 6-1-90Time (24 hr) 12:15 Biologist David Lohse

- (A) Substrate type and % of segments:
 (1) Bedrock 30 (2) Boulder 40 (3) Cobble 20 (4) Pebble 5 (5) Sand 5 (6) Silt
- (B) Overall % cover of biota (% of segment): Dense 30 Moderate 40 Low 30
- (C) Density, substrate preference (by number from A, above), & vertical zonation of major taxa: (upper-U; mid-M; low tidal-L); juveniles / adults (X), new settlement (3)

Photographs:
Roll No. ST-19-100Frames 23, 24

BARNACLES

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	NOT PRESENT
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	
6	6	6	6	6	6	6	6	6	6	6	6	

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	NOT PRESENT
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	
6	6	6	6	6	6	6	6	6	6	6	6	

GASTROPODS

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

FUCUS

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

Wildlife Observations/ General Comments:

See page 2

Ecological Considerations:

SR - One gull nesting colony and one oystercatcher nesting area were observed in this segment

Segment ST/KI-1/SI-114

Subdivision A & B

6-1-90

Biologist: David Lohse

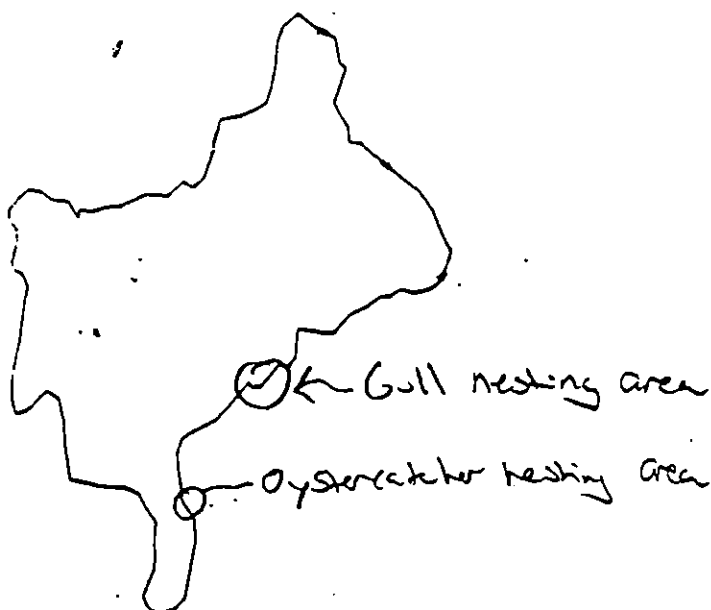
Wildlife Observations/General Comments

1. present in low intertidal: *Iridaea*, *Alaria*, unknown yellow sponge, *Rhodomenia*, *Halosaccus*, *Siphonaria*, *Ralfsia*, *Epiaulus*, *Ulva*, *Porphyra*, *Rhodamelia*, coralline algae, *Kathina tunicata*, unknown filamentous red (Dayse?)
 mid intertidal: *Sculpins*, *Scytosiphon*, *Ralfsia*, coralline algae, *Rhodamelia*, *Nuella*, *Gloiopeltis*, *Endoladia*, *Rhodomenia*, *Orchestoidea*, *Halosaccus*, *Cladophora*, *Porphyra*, unknown yellow sponge, *Alaria*, *Ulva*, *Epiaulus*, *Anthopleura*,
 high intertidal: *Ulva*
2. One otter, ~8 oystercatchers, 2 ravens, 2 mature bald eagles, and several gulls spotted in area
3. *Littorina* eggs were found underneath mid-intertidal cobble
4. *Ulva* was abundant on high intertidal bedrock, varying from 30-50% cover. However, it did look fairly dried at.
5. Not much of low intertidal in segment was seen due to tidal cycle. However where it was seen, algal cover ranged from 75-80% on bedrock and was ~75% on boulders

K0101-SI011A

Ecology Map
Reserve Codes for Entire
Segment

SR



500.0

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

ABCE Sep/Oct 1988 Survey

SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-011 SUBDIVISION B (2 OF 2) DATE 6/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

5R Seabird colony (5/1 to 9/1)
See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: [Signature] DATE: June 19, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 11 m: Narrow 4 m: V.Light 10 m: No Oil 526 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: <u> </u> Wands
☐ Tarmat Removal	☐ Beach Cleaner
	☐ Other (see comments)

COMMENTS:

TAG COMMENTS:

TAG APPROVAL DATE: 6/16/90.
ADEC Raj Manna R. Manna
EXXON ANDY TEAL FOSC: [Signature] DATE: 6-27-90
NOAA Jane Talbot
USCG G.A. Reiter G.A. Reiter

OG 1. Springer
 SIC AT ST K-101/SI-11

SUBDIVISION B

DATE 6/1/90

CHECKLIST

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

LEGEND

- 1 Δ
Pit - No Subsurface Oil
- 2 $\blacktriangle$
Pit - Subsurface Oil
- CT/C

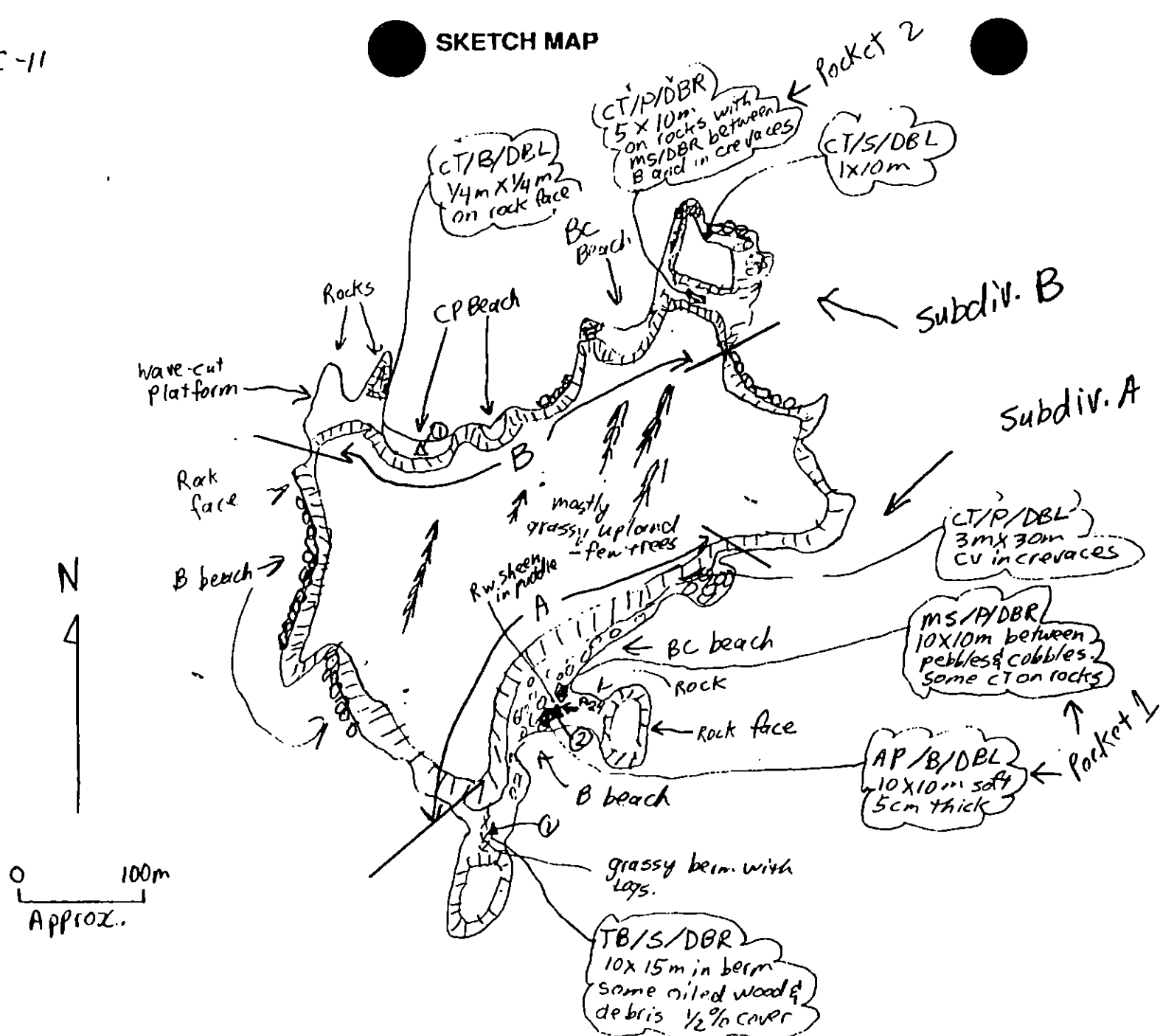
Continuous Distribution
- CT/B

Broken Distribution
- CT/P

Patchy Distribution
- CT/S

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

SKETCH MAP



Oil Character Length (m): AP _____ PO _____ CV _____ CT 21 ST _____ MS _____ PT _____ TB _____ FL _____ NO 779

K0101-SI011A

Ecology Map
Reserve Codes for Entire
Segment

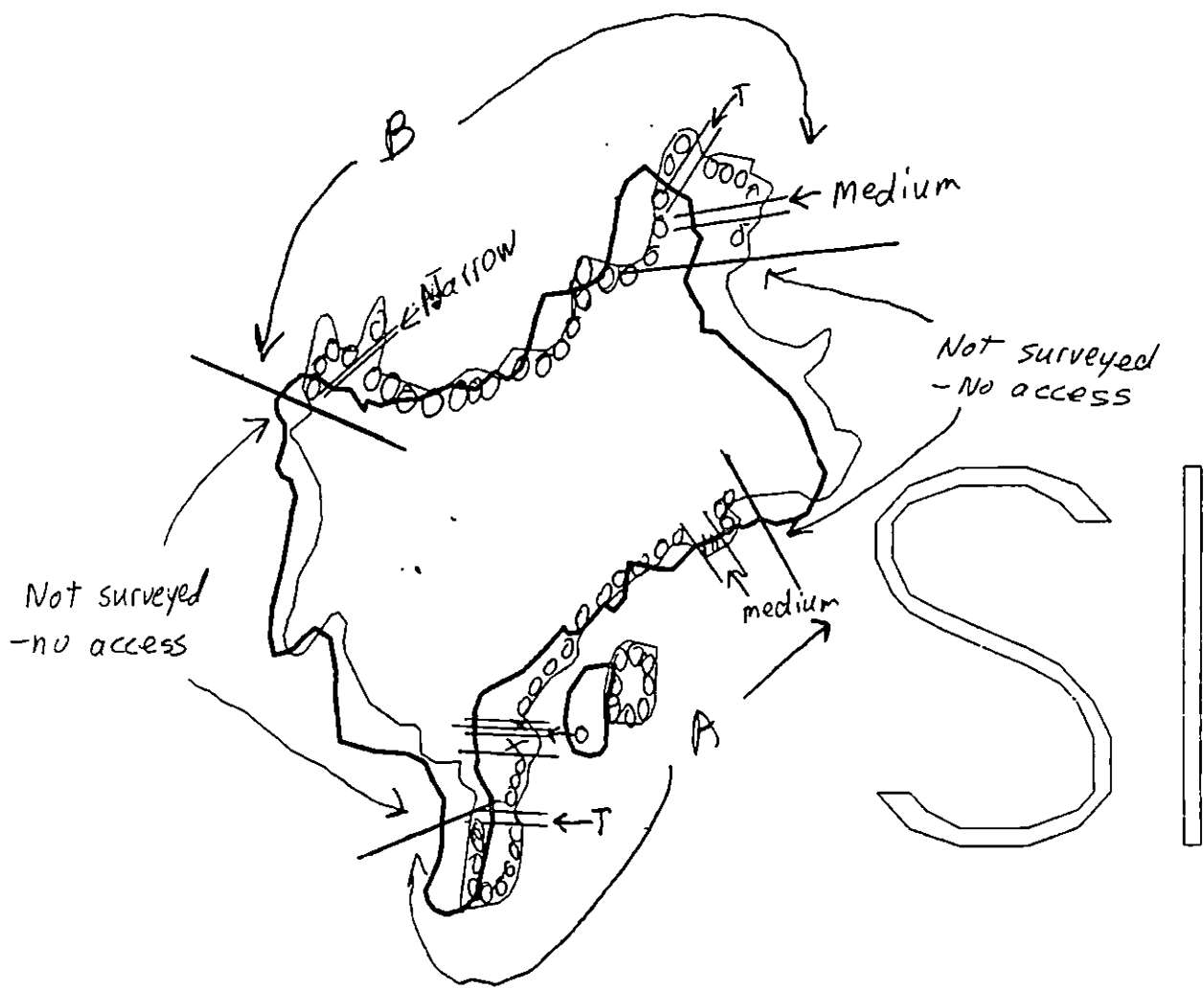
SR



500.0

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





XXXX Wide

/// Medium

--- Narrow

TTTT Very Light

0000 No Oil

K0101-SI-11-B

Approx. Segment Length: 2484



Map Key: KOD-SI-11

Name: James Springer

Date: 6/1/90

Data Entered:

1991 MAYSAP EVALUATION

SEGMENT: K01018I011 SUB: A REGION: KOD SURVEY DATE: 5/12/91

ENVIRONMENTAL SENSITIVITIES:

Work Window(s) RESTRICTED 5/15 - 9/1

Ecological/Constraints (see page two for details) Seabird colony

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO Signature: _____ Date: _____

RECOMMENDATIONS:

INITIAL

TAG

FOSC

TREATMENT REQUIRED (Y or N)

N

Manual Pickup (Check as Req.)

Spot Washing

Bio-Customblen Only

Bio-Inipol/Customblen

Other

Other

COMMENTS:

INITIAL: _____

TAG: _____

FOSC: _____

TAG APPROVAL DATE: _____

FOSC APPROVAL DATE: _____

ADEC

FOSC

EXXON

USCG

NOAA

**ECOLOGICAL CONSTRAINTS
1991 FIELD ACTIVITIES**

Seabird Colony: Access restricted. USF&WS authorization required after 5/15. Maintain 1000' vertical and 1/2 mile horizontal buffer.

TEAM NO. 6-Helo SEGMENT K-01-01-SI-11 SUBDIVISION A DATE 12 May 1991

ADEC

NAME J. BARNHART

SIGNATURE

Jeff Barnhart

- ☒ NTR K01-01 SI-11 Little Fort Island. Trace sor-ms in bed rock cracks, mid ITC. Unrecoverable by manual methods. Continuous CT, LV on vertical bedrock wall 23 m long & 2 m wide.

EXXON

NAME R. COULTER

SIGNATURE

Ray R. Coulter

- ☒ NTR

VERY LITTLE EVIDENCE OF PREVIOUS OILING CONDITIONS REMAINS AT THIS SITE. NATURAL CLEANSING HAS APPARENTLY MADE A SIGNIFICANT IMPROVEMENT AT THIS SITE AND WILL CONTINUE TO REMOVE THE TRACE AMOUNTS OF OILING.

LANDMANAGER

NAME K. MURPHY

OF ADNR

SIGNATURE

Kevin Murphy

- ☒ NTR Little Fort Island is State land managed by ADNR. This segment lies exposed to medium wave energy. No oil was detected in middle or lower tidal zone. Only one small lighter stain observed on cliffs in upper tidal zone

USCG/NOAA

NAME CHIEF JENSEN: G. SHIGEMAKA

SIGNATURE

Robert Jensen / Gary Siguel

- ☒ NTR There is no longer any detectable oil present on the water, adjoining shorelines, or places where it is likely to reach the water again. Note: only one bag taken out of this segment in 1990.

SEGMENT IS A ROCKY, RUGGED ISLAND OFF THE SOUTHEAST COAST OF SHUYAK. THE PORTION OF THE SEGMENT SURVEYED CONSISTED OF A BOULDER BEACH LOCATED ON THE SOUTHEAST SIDE OF THE ISLAND. SOME MOUSSE WAS FOUND IN A BEDROCK MATRIX ON THE BOULDER BEACH, AND THIS WAS PHYSICALLY BROKEN UP. WEATHERED OIL COAT WAS OBSERVED ON ROCK WALLS OF A COBBLE BEACH THAT EXTENDS OFF THE SOUTHWEST PART OF THE BOULDER BEACH. LITTORINA SITKANA SNAILS WERE PRESENT IN LARGE NUMBERS ON THIS OIL COAT IN GENERAL, THERE APPEARED TO BE LITTLE, IF ANY, REMOVABLE OIL REMAINING IN THE AREA SURVEYED.

KØT-Ø1

SEGMENT SI-11

SUBDIVISION A

DATE 12 May 191

ENERGY LEVEL: ☒ H ☐ M ☐ L

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

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

EST. OIL CATEGORY LENGTH: W — m M — m N — m VL 15 m NO 85 m US 679 m

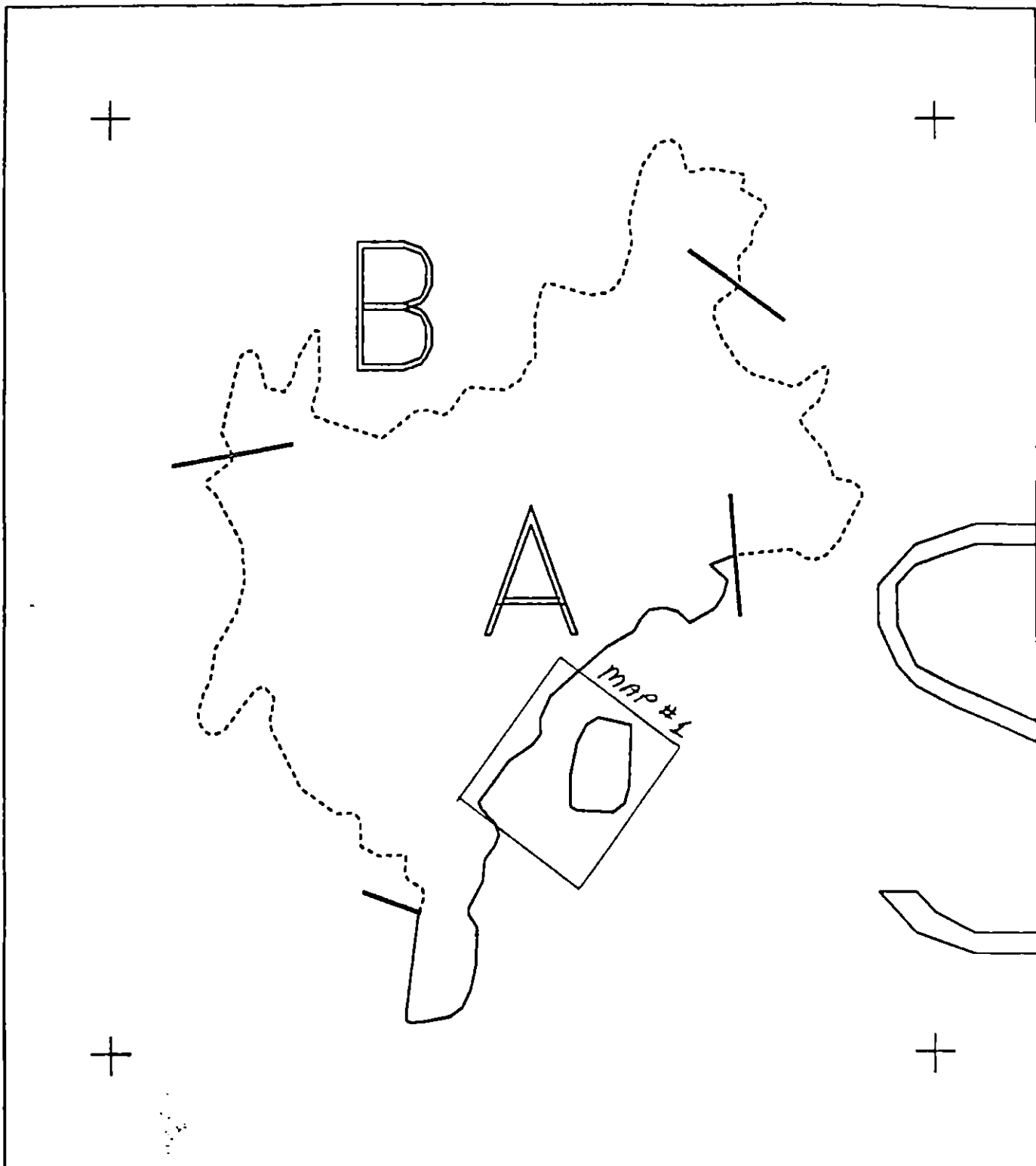
DISTRIBUTION: C = 91-100%; B = 51-90%; P = 11-50%; S = 1-10%; T = <1%

SLOPE: V = VERTICAL; H = HIGH ANGLE; M = MEDIUM ANGLE; L = LOW ANGLE

PHOTO ROLL # MAYSAP- 6 - 12 FRAMES 12-14

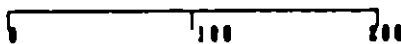
SHEEN COLOR: B = BROWN; R = RAINBOW; S = SILVER; N = NONE

OG COMMENTS: This site is an exposed pocket beach on the southeast side of Little Fort Island. The area is protected by a small island (80m long) and is composed of silt to low bedrock outcrops, boulder areas, and two small cobble and small boulder beaches. The oiling at this site has been reduced substantially from a 4 by 25m ranging occurrence of SOR to a trace 1 by 10m trace of SOR. In addition, a 3 - 4m continuous to broken occurrence of SOR could not be found. These changes in the oil condition took place since the ASAP survey.



K0101 S1011 A

METERS



AK State Plane Zone 4.
G0101010110-4.

Subdivision Field Map

Map Key: G0A010101011A

Name: D. Fitzgerald

Date: 12 May 1991

Grassy Upland

PHOTO SITES

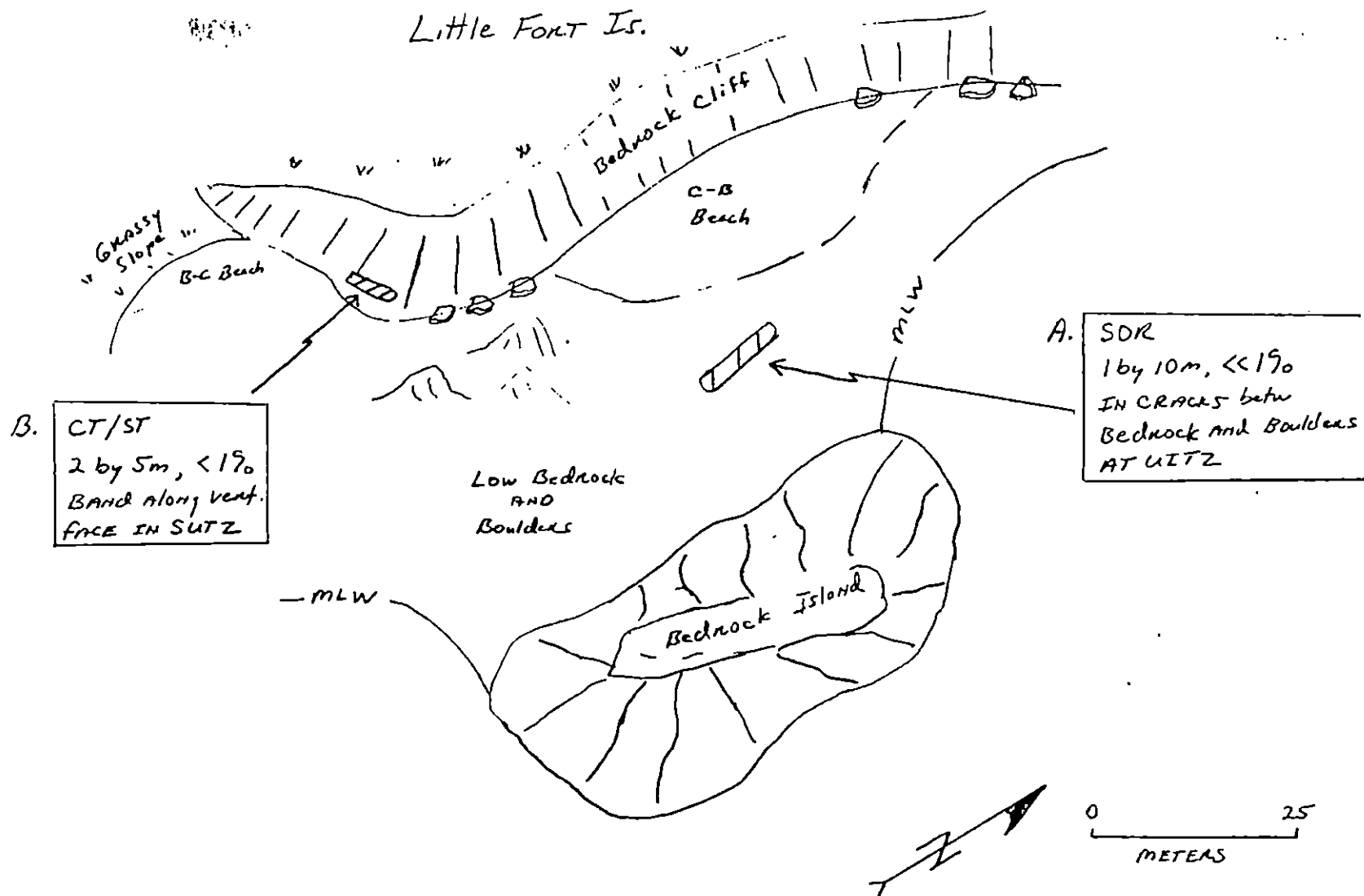
Sketch Map (06)

SI-11-A

D. Fitzgerald

12 MAY 1991

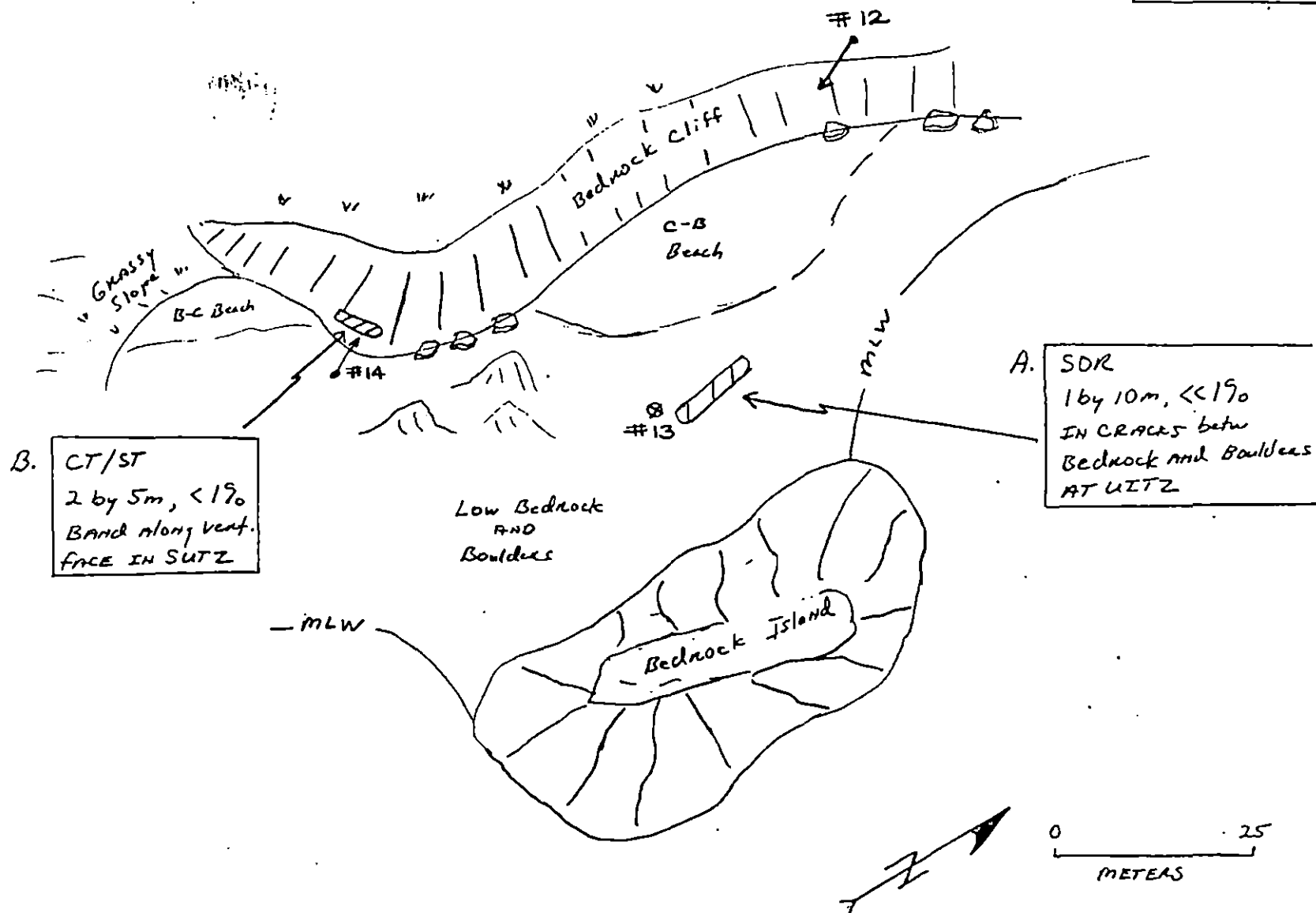
1020' - 1045'



Grassy Upland
 PHOTO SITES

PHOTO SITES
 ROLL 6-12, FRAMES 12 THRU 14

Sketch MAP (06)
 SI-11-A
 D. Fitzgerald
 12 MAY 1991
 10 20' - 1045



KAYSAP BIOLOGICAL SUMMARY FORM

TEAM # 6 Kelo

DATE May 12 1991

SEGMENT # SI-II

TIDAL HEIGHT(Range) 2.1 - 4.5 ft (10:20 - 10:45)

SUBDIVISION A

BIOLOGIST H. Davis

SEA STATE 3-4 ft

WIND SPEED/DIRECTION 5-15 mph variable S

PHOTOGRAPHS: ROLL # 6-12

FRAME # 12-14

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

A. Site A was in the center of an extensive barnacle/littorina/limpet area. The density of these animals was moderate but fairly continuous. A few patches of fucus dotted the area. Toward the MLW the biota became much denser. The tops of boulders and bedrock was completely covered with Fucus. Between the Fucus covered boulders and in the small pools was a wide variety of plant and animals. Halichondria, amphipods, Terebellids, Nematodes, Ideotea, Pagurus, Odontaspis, Rhodomela, Petricola, endocladia and Leptasterias* (oyster catchers were feeding in this lower area.

B. At site B, Barnacles, limpets and littorina were the most common organisms. They were all very sparse in the intertidal zone that had the CT/ST. Some verucaria was growing in a band just above site B. The sparse barnacle limpet, littorina area extended 20-25 meters down the slope to the MTL.

scoter (1) oyster catchers (8) Kittiwakes (2) *Leptasterias were brooding eggs

WILDLIFE OBSERVATIONS

TO BE COMPLETED IN ALL SUBDIVISIONS

BIRDS	# OF SPECIES	TOTAL BIRDS	FISH OBSERVED SPECIES PRESENT
Eagles	0	-	Sculpins
Seabirds	0	-	
Waterfowl	1	1	
Gulls/Kittiwakes	1	2	
Shorebirds	1	8	
Corvids	0	-	
Other Birds	0	-	

MARINE MAMMALS	# OBSERVED	LAND MAMMALS SPECIES	# OBSERVED
Sea Otters	0	0	
Pinnipeds (specify)	0		
Whales (specify)	0		

Shoreline subdivision map showing important biological features attached.

↑ PHOTO SITES

Bio Map
H. Davis

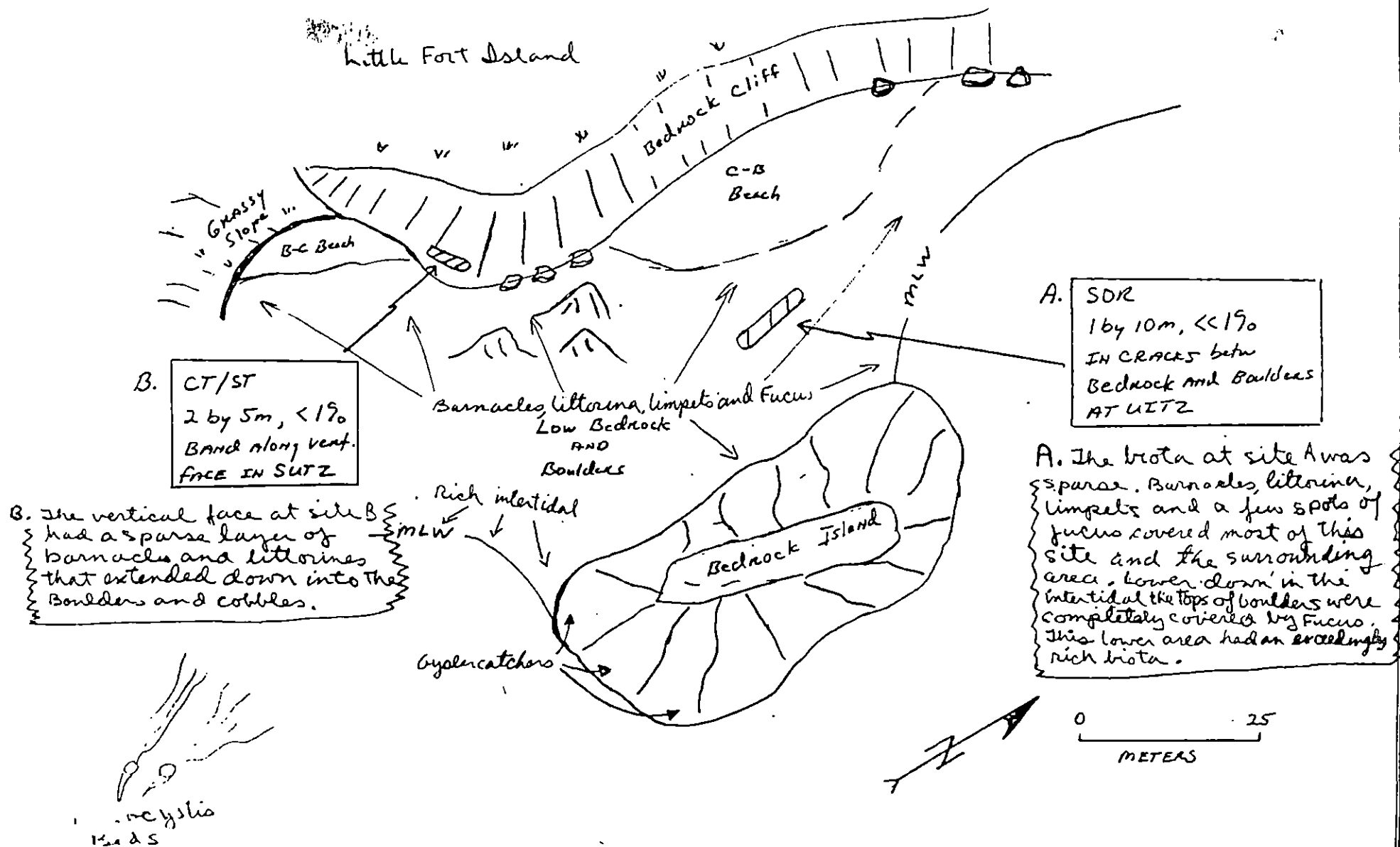
SI - 11 - A

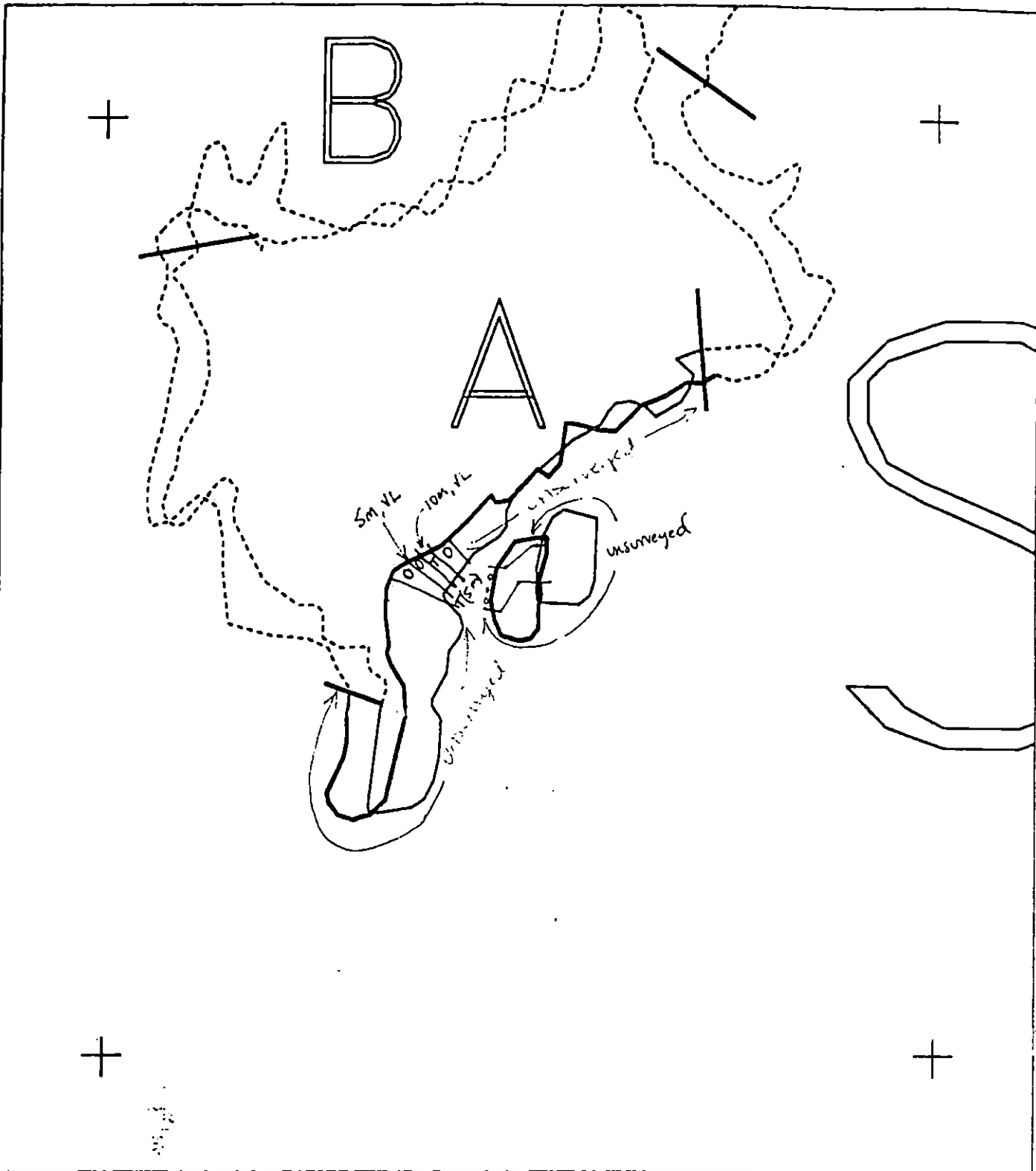
D. Fitzgerald

12 MAY 1991

1020' - 1045'

active Seabird
colony on the
North Side of
the island





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

K0101 S1011 A
 ADEC Subsegment Length: 770m
 METERS

AK State Plane Zone 4
 8010101011A-1



Subdivision Field Map
 Map Key: 60AK0101S1011A
 Name: D. Fitzgerald
 Date: 12 May 1991
 Date Entered:

ET revised 9/15

1991 MAYSAP EVALUATION

SEGMENT:K0101SI011 SUB: A REGION: KOD SURVEY DATE: 5/12/91

ENVIRONMENTAL SENSITIVITIES:

Work Window(s) RESTRICTED 5/15 - 9/1

Ecological/Constraints (see page two for details) Seabird colony

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO Signature: Rachel Dean Wade Date: 5/24/19

RECOMMENDATIONS:

INITIAL

TAG

FOSC

TREATMENT REQUIRED (Y or N)

N

N

2

Manual Pickup (Check as Req.)

Spot Washing

Bio-Customblen Only

Bio-Inipol/Customblen

Other

Other

COMMENTS:

INITIAL:

TAG:

FOSC:

TAG APPROVAL DATE: MAY 24 1991

FOSC APPROVAL DATE: 5/29/91

ADEC

FOSC

EXXON

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

USCG

NOAA

ECOLOGICAL CONSTRAINTS
1991 FIELD ACTIVITIES

Seabird Colony: Access restricted. USF&WS authorization required after 5/15. Maintain 1000' vertical and 1/2 mile horizontal buffer.

K-01-01 -
SI-11

TEAM NO. 6 - Halo

SEGMENT

SUBDIVISION

A

DATE 12 May 1991

ADEC

NAME J. BARNHART

SIGNATURE Jeff Barnhart

- ☒ NTR K01-01 SI-11 Little Fort Island. Trace sor-ms in bed rock cracks, mid ITC. Unrecoverable by manual methods. Continuous CT, CV on vertical bedrock wall 23 m long x 2 m wide.

EXXON

NAME R. COULTER

SIGNATURE Rex R. Coulter

- ☒ NTR VERY LITTLE EVIDENCE OF PREVIOUS OILING CONDITIONS REMAINS AT THIS SITE. NATURAL CLEANSING HAS APPARENTLY MADE A SIGNIFICANT IMPROVEMENT AT THIS SITE AND WILL CONTINUE TO REMOVE THE TRACE AMOUNTS OF OILING.

LANDMANAGER

NAME K. MURPHY

OF ADNR

SIGNATURE Kevin Murphy

- ☒ NTR Little Fort Island is State land managed by ADNR. This segment lies exposed to medium wave energy. No oil was detected in middle or lower tidal zone. Only one small lighter stain observed on cliffs in upper tidal zone

USCG/NOAA

NAME CHIEF JENSEN: G. SHIGENAKA

SIGNATURE Robert Jensen / Gary Shigenaka

- ☒ NTR There is no longer any detectable oil present on the water, adjoining shorelines, or places where it is likely to reach the water again. note: only one bag taken out of this segment in 1990.

SEGMENT IS A ROCKY, RUGGED ISLAND OFF THE SOUTHEAST COAST OF SHUYAK. THE PORTION OF THE SEGMENT SURVEYED CONSISTED OF A BOULDER BEACH LOCATED ON THE SOUTHEAST SIDE OF THE ISLAND. SOME MOUSSE WAS FOUND IN A BEDROCK MATRIX ON THE BOULDER BEACH, AND THIS WAS PHYSICALLY BROKEN UP. WEATHERED OIL COAT WAS OBSERVED ON ROCK WALLS OF A COBBLE BEACH THAT EXTENDS OFF THE SOUTHWEST PART OF THE BOULDER BEACH. LITTORINA SITKANA SNAILS WERE PRESENT IN LARGE NUMBERS ON THIS OIL COAT. IN GENERAL, THERE APPEARED TO BE LITTLE, IF ANY, REMOVABLE OIL REMAINING IN THE AREA SURVEYED.

TEAM NO. 6-Helo

Køt-pl
SI-11

SEGMENT 5I-11

OG D. Fitzgerald

BIO. H DAVIS

ADEC J. BARNHART

LANDMANAGER K. MURPHY for ADNR

SUBDIVISION A

EXXON R. Coulter

USCG/NOAA Chief JENSEN / G. SHIGENAKA

DATE 12 / May / 191

TIME 10:20 to 10:45

TIDE LEVEL 2.1 ft. to 4.3 ft.

ENERGY LEVEL: ☒ H ☐ M ☐

SURVEYED FROM: ☒ FOOT ☐ BOAT ☐ HELO

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

TOTAL LENGTH SHORELINE SURVEYED: 100 m

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

EST. OIL CATEGORY LENGTH: W m M m N m VL 15 m NO 85 m US 679 m

[illegible]

DISTRIBUTION: C = 91-100%; B = 51-90%; P = 11-50%; S = 1-10%; T = <1%

SLOPE: V = VERTICAL; H = HIGH ANGLE; M = MEDIUM ANGLE; L = LOW ANGLE PHOTO ROLL # MAYSAP- 6 - 12 FRAMES 12-14

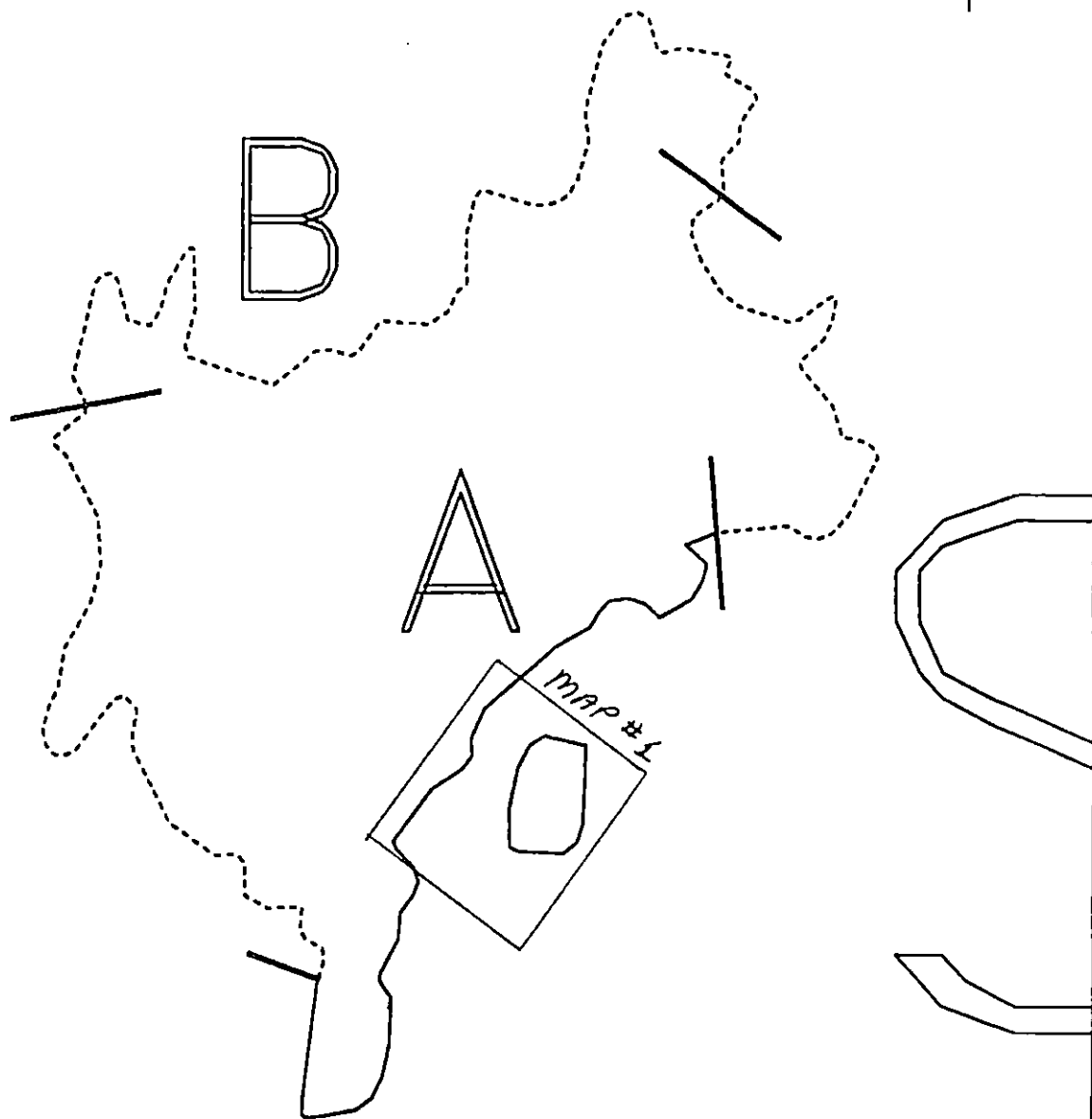
PHOTO ROLL # MAYSAP- 6 - 12 FRAMES 12-14

[illegible]

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

OG COMMENTS: This site is an exposed pocket beach on the southeast side of Little Fort Island. The area is protected by a small island (80m long) and is composed of flat to low bedrock outcrops, boulder areas, and two small cobble and small boulder oolite. The oiling at this site has been reduced substantially from a 4 by 25m splashy occurrence of SOR to a trace 1 by 10m trace of SOR. In addition, a 3 by 4m continuous to broken occurrence of SOR could not be found. These changes in the oil condition took place since the ASAP survey.

reviewed 5/15/91 KCG
FT 5/20/91 5/5



K0101 S1011 A

METERS

0 100 200

AK State Plane Zone 4.
901010110-

Subdivision Field Map

Map Key: 00AK0101011A

Name: D. Fitzgerald

Date: 12 MAY 1991

✓✓ GRASSY UPLAND

↑ PHOTO SITES

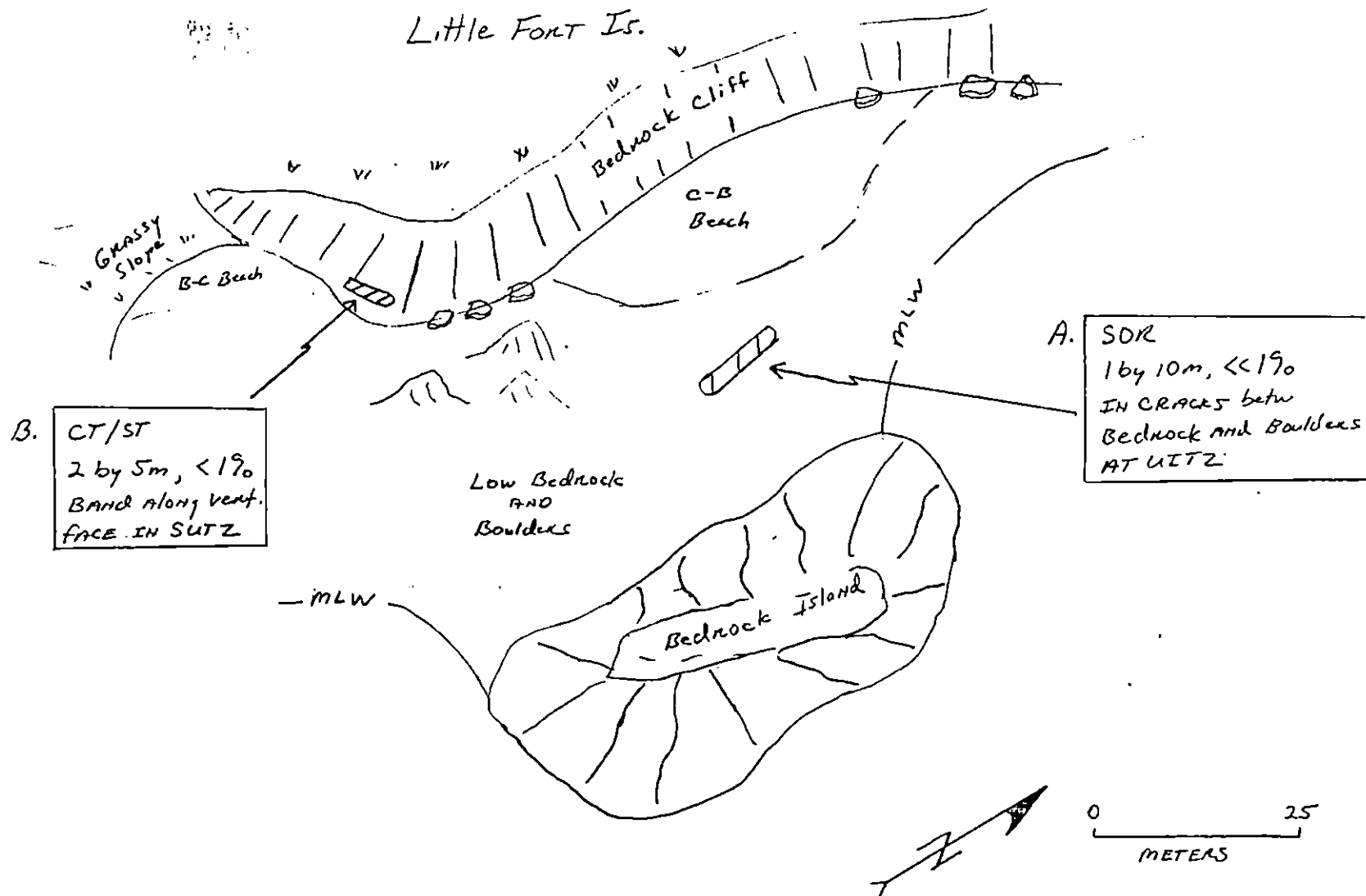
Sketch Map (06)

SI-11-A

D. FitzGerald

12 MAY 1991

1020 - 1045



revised 5/15/91
ET revised 5/15

Grassy Upland

PHOTO SITES

PHOTO SITES
ROLL 6-12, FRAMES 12 THRU 14

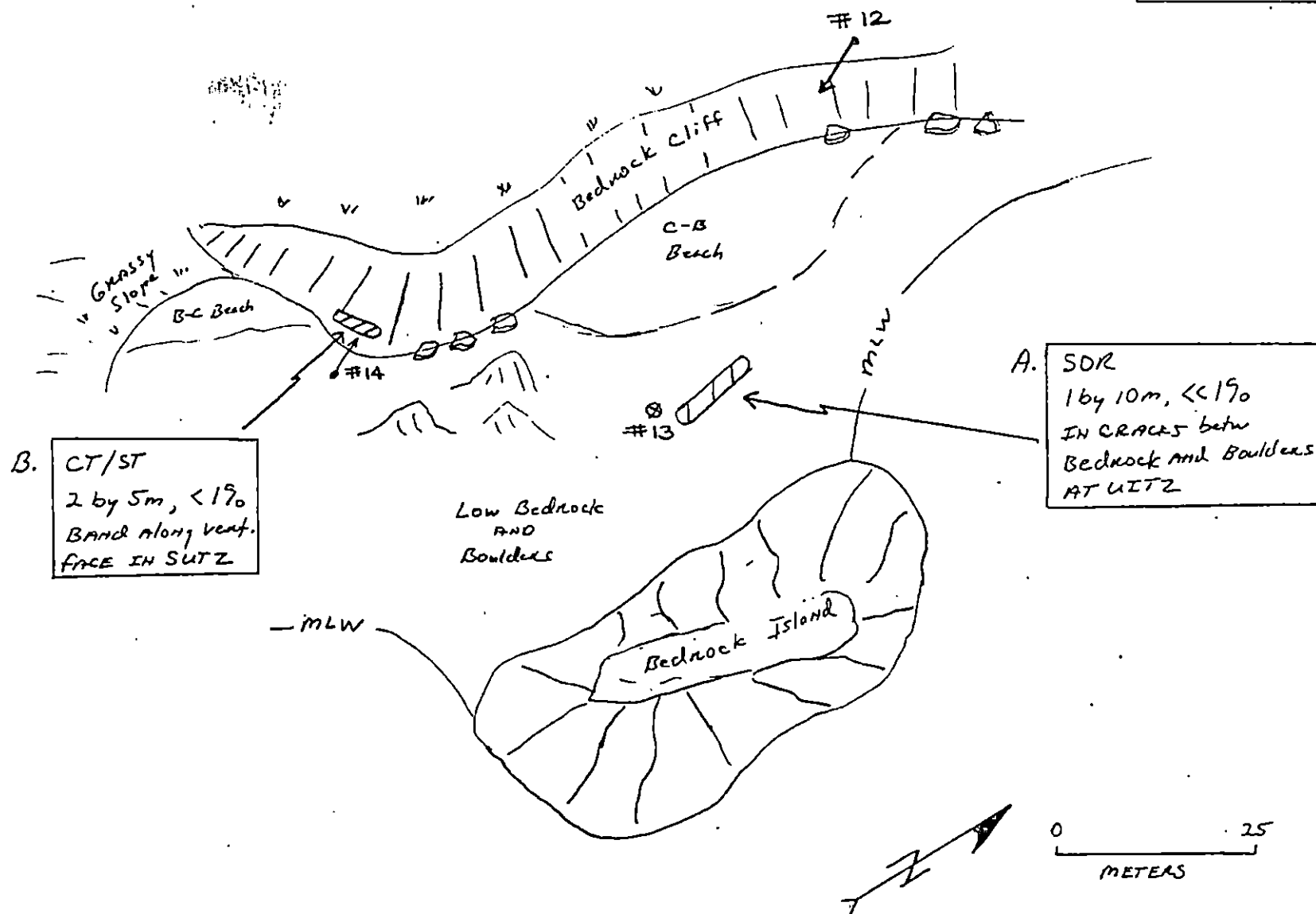
Sketch Map (06)

K-01-01
S.I-11-A

D. Fitzgerald

12 MAY 1991

1020' - 1045'



WAYSAP BIOLOGICAL SUMMARY FORM

TEAM # 6 Helo

DATE May 12 1991

SEGMENT # SI-11

TIDAL HEIGHT (Range) 2.1 - 4.5 ft (10:20 - 10:45)

SUBDIVISION A

BIOLOGIST H. Davis

SEA STATE 3-4 ft

WIND SPEED/DIRECTION 5-15mph variable S

PHOTOGRAPHS: ROLL # 6-12

FRAME # 12-14

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

A. Site A was in the center of an extensive barnacle/littorina/limpet area. The density of these animals was moderate but fairly continuous. A few patches of fucus dotted the area. Toward the MLW the biota became much denser. The tops of boulders and bedrock was completely covered with Fucus. Between the Fucus covered boulders and in the small pools was a wide variety of plant and animals. Halichondria, amphipods, terebellids, nematodes, ideola, Pagurus, odonthalis, Rhodomela, petroselinus, endocladia and leptasterias* Oyster catchers were feeding in this lower area.

B. At site B, Barnacles, limpets and littorina were the most common organisms. They were all very sparse in the intertidal zone that had the CT/ST. Some verucaria was growing in a band just above site B. The sparse barnacle/limpet/littorina area extended 20-25 meters down the slope to the MTL.

scoter (1) oyster catchers (8) Kittiwakes (2) *Leptasterias were brooding eggs

WILDLIFE OBSERVATIONS

TO BE COMPLETED IN ALL SUBDIVISIONS

BIRDS	# OF SPECIES	TOTAL BIRDS	FISH OBSERVED SPECIES PRESENT
Eagles	0	-	Sculpins
Seabirds	0	-	
Waterfowl	1	1	
Gulls/Kittiwakes	1	2	
Shorebirds	1	8	
Corvids	0	-	
Other Birds	0	-	

MARINE MAMMALS	# OBSERVED	LAND MAMMALS SPECIES	# OBSERVED
Sea Otters	0	0	
Pinnipeds (specify)	0		
Whales (specify)	0		

Shoreline subdivision map showing important biological features attached.

↗ PHOTO SITES

Bio Map
H. Davis

SI - 11 - 19

D. Fitzgerald

12 MAY 1991

1020' - 1045

active Seabird
colony on the
North Side of
the island

Little Fort Island

Bedrock cliff

C-B
Beach

Grassy slope

B-C Beach

B. CT/ST
2 by 5m, < 190
BAND along vent.
FACE IN SUTZ

Barnacles, Littorina, limpets and Fucus
Low Bedrock
AND
Boulders

A. SDR
1 by 10m, < 1%
IN CRACKS betw
Bedrock and Boulders
AT UTTZ

B. The vertical face at site B5 had a sparse layer of barnacles and littorines that extended down into the boulders and cobbles.

Rich intertidal

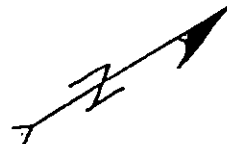
Bedrock Island

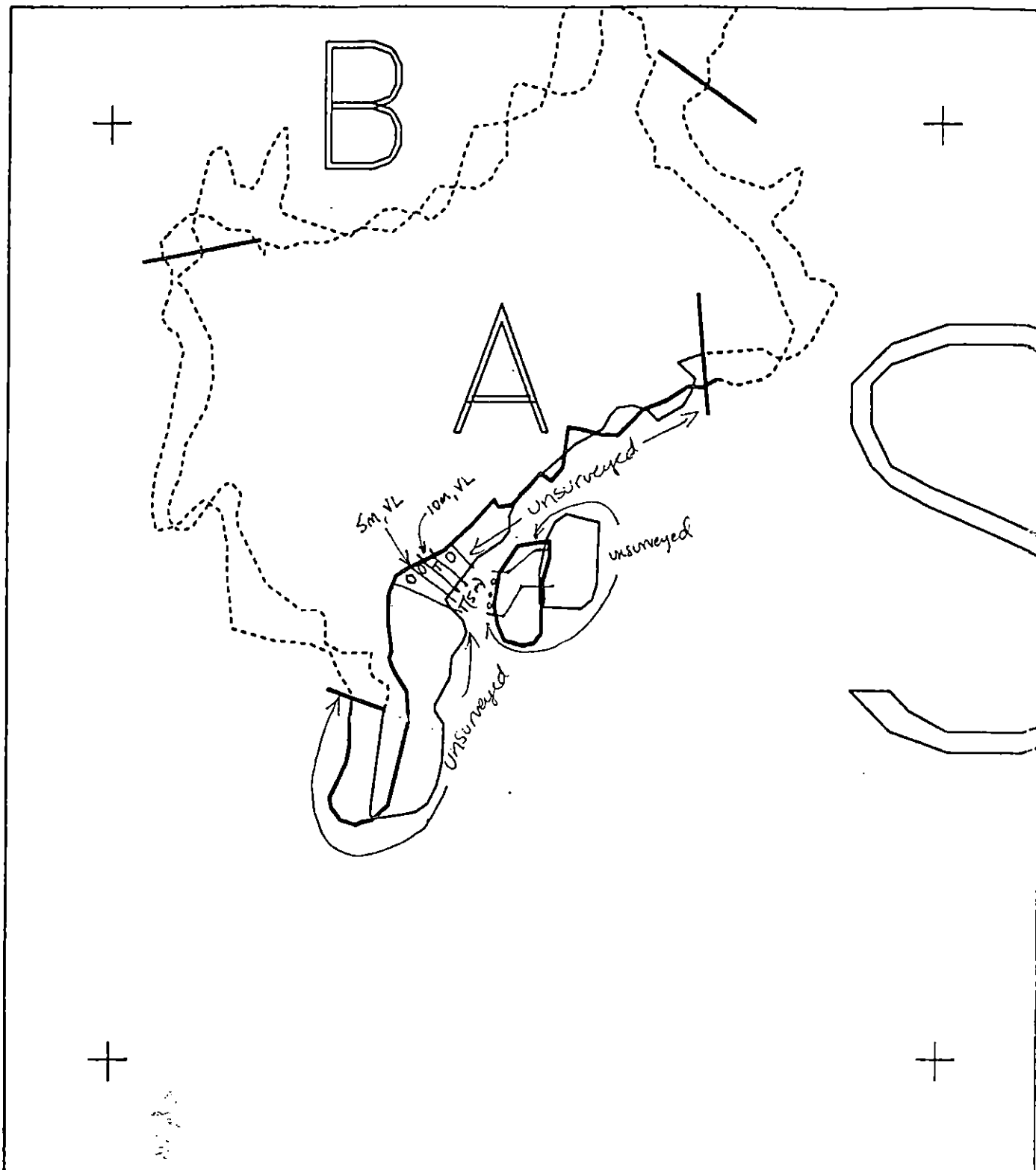
Cyclotrichans

A. The biota at site A was sparse. Barnacles, littorina, limpets and a few spots of fucus covered most of this site and the surrounding area. Lower down in the intertidal the tops of boulders were completely covered by Fucus. This lower area had an exceedingly rich biota.

1.1.12 ocystis
Beds

A horizontal scale bar with a bracket underneath. The left end is labeled '0' and the right end is labeled '25'. Below the bar, the word 'METERS' is written in capital letters.





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

K0101 S1011 A
 ADEC Subsegment Length: 779m
 METERS
 0 100 200
 AK State Plane Zone 4
 801010111-1



Subdivision Field Map
 Map Key: 60AK0101S1011A
 Name: D. Fitzgerald
 Date: 12 May 1991
 Date Entered:

revised
 5/15/91 KCG
 ET revised 5/15

ADDENDUM: SUBDIVISION CONSTRAINTS

SEGMENT K01-01-SI-12 SUBDIVISION B (2 of 8)

WORK WINDOW	
Manual Pickup	OPEN
Bioremediation	OPEN

ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

5T Bald Eagle Nest

NO CONSTRAINT. USFWS 4/9/90 map indicates no active nest within 400m of Subdivision A work site.

OTHER ECOLOGICAL CONSIDERATIONS

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

FOSC

[Signature]

Date

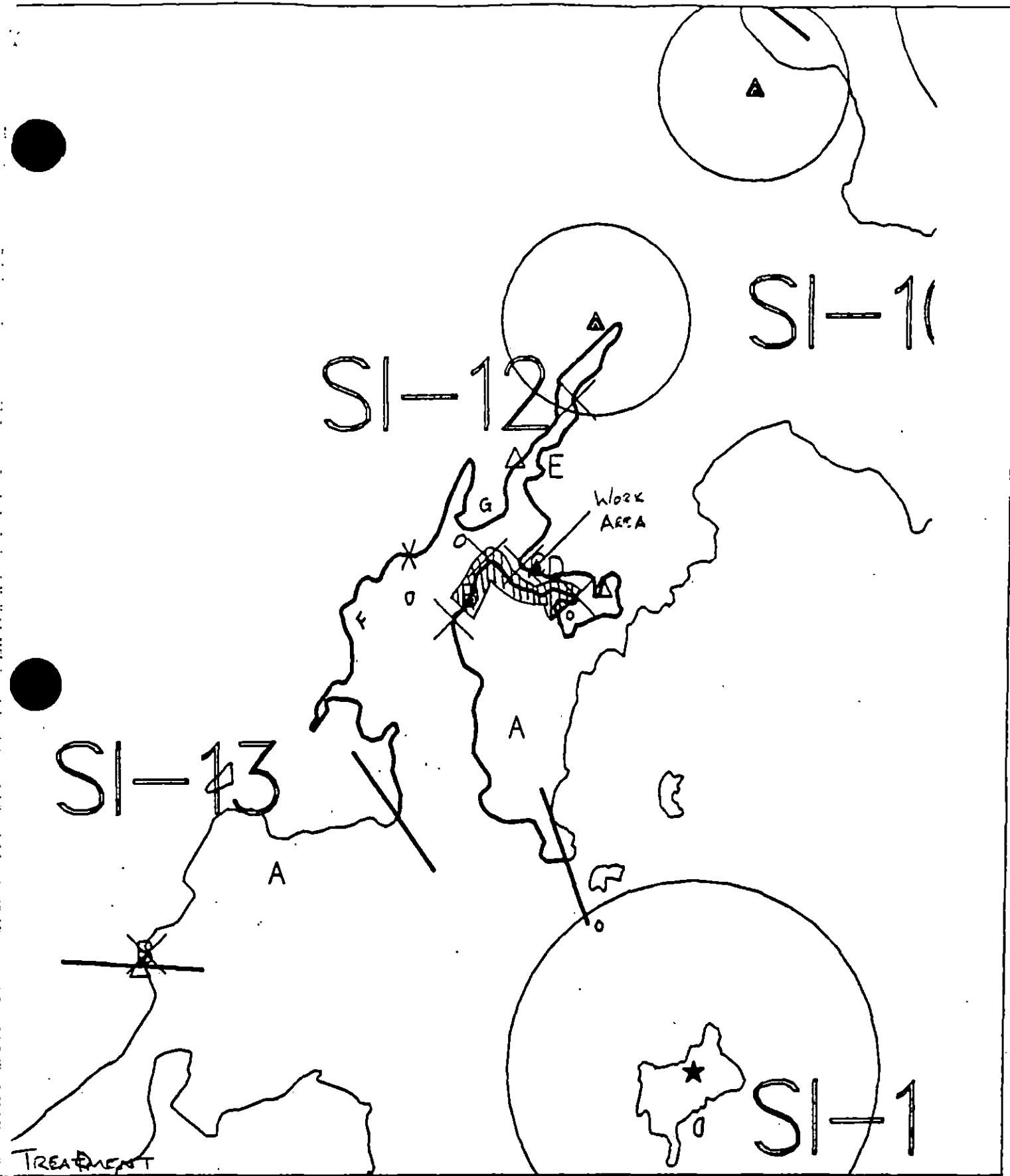
6/14/90

Prepared by

Reg D. Caultre

Date

06/13/90



Exxon Company, USA
Map Key: KOD-SI-12
June 10, 1990



ECOLOGY MAP
SEGMENT KI-1 SI-12
SUBDIVISION --- (--- of ---)
METERS
0 550 1112

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

1 inch = 1824 feet

SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-12 SUBDIVISION B (2 OF 5) DATE 4/8/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

ST All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)
See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

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: Charles E. H. M. DATE: 4/28/90

OILING CATEGORIZATION:

Wide 0 m: Medium 83 m: Narrow 198 m: V.Light 0 m: No Oil 0 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

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

COMMENTS: Recommended treatment includes manual pick up of pooled oil ^T using absorbents as necessary then bioremediate. Work should be con- ^{Moves} ducted after 6/1 with approval of USFWS regarding eagle nest. [@]

SEE CONSTRAINT ADDENDUM
DATED 06/13/90 Rev C.

TAG COMMENTS:

TAG APPROVAL DATE: 4/26/90
ADEC JOHN BANGE
EXXON ANDY TGM
NOAA GARY PETRAE
USCG KENNETH KEANE

FOSC: DATE: 5-3-90

COILING LENGTHS
TO BE PROVIDED
AT A LATER DATE

K1-1-S1-12A

REGION: KODIAK

SEGMENT: ST/K01-01-SI-12

SUBDIVISIONS: A (1 OF ⁷~~5~~)

SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-12 SUBDIVISION A (1 OF 5) DATE 4/8/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

5T All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)
See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: _____ DATE: _____

OILING CATEGORIZATION:

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

RECOMMENDATIONS:

<u>X</u> 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: _____

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____
EXXON _____
NOAA _____
USCG _____

FOSC: _____ DATE: _____

KODIAK ECOLOGICAL CONSTRAINTS

- 1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
 1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
 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 Kotof Bay Hatchery release
 Pink salmon - late May, early June; Chum salmon - June; Sockeye salmon - early July.
- 1H Remote release site
- 1I Gill net area
- 1J Purse seine area
 Mainland, West side Kodiak, Shuyak & Moser/Olga Bay - 6/9 to 10/1.
 East side Kodiak, East side Afognak - 7/4 to 10/1.
- 1K Purse seine hook-off
- 1L Set net sites
 USFWS setnet uplands permit 5/15 to 9/15.
- For Codes 1C through 1L contact ADF&G for specific dates, locations and constraints.
- 2M Herring spawning (4/15 to 6/30)
 Restrict boat traffic to essential minimum. Avoid damage to unholed intertidal and subtidal algae and seagrass. Contact ADF&G for specific dates and locations.
- 3N, 3P Harbor seal and sea lion pupping (5/10 to 6/30)
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 3O, 3Q Harbor seal and sea lion molting (8/15 to 9/15)
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 5R Seabird colony (5/1 to 8/31)
 Restrict air traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance. Contact ADF&G and USFWS prior to treatment.
- 5S Shorebird/waterfowl concentration (4/1 to 5/15)
 Restrict all activity to essential minimum, especially air traffic.
- 5T All Bald Eagle nests (3/1 to 6/1) ♂
 Active Bald Eagle nests (3/1 to 9/1)
 Restrict air traffic to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates.
- 6U Recreation: Tent sites (6/1 to 9/15)
- 6V Anchorages (6/1 to 9/15)
- 6W Forest Service cabins (6/1 to 9/15)
- 6X Lodge (6/1 to 9/15)
- 6Y Special use destination
- 7Z Subsistence area: Salmon harvesting (6/1 to 9/30)
- 7HH Finfish harvesting
- 7II Deer harvesting (8/1 to 1/7)
- 7JJ Invertebrate harvesting
- 7KK Bear harvesting (4/1 to 5/15 and 10/25 to 11/30)
 For Codes 7Z through 7JJ contact ADF&G and Chenega Corporation for specific dates, locations, and constraints.

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / K0101 / SI 012 SUBDIVISION: A DATE 4-8-93

~~NOAA~~
~~USEC~~

NAME John Naughton SIGNATURE John J. Naughton

☒ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

COMMENTS

This entire outer bay area walked. No oil observed.

ADEC

NAME Scott Shelton SIGNATURE Scott Shelton

☒ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

COMMENTS K0101 / SI 012 Sub. A.

No oil observed 1296 meters walked in this segment 12 pits were dug / Each series of 3 pits were dug from upper tidal to lower tidal zones. NO subsurface oil observed. High energy shoreline coarse gravel surface sediment. Deer activity in this area feeding on beach vegetation.

LAND MANAGER

NAME Mike Goodwin SIGNATURE Mike Goodwin

☒ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

COMMENTS

Sub-
Fred Byers, Exxon, stated this segment was treated by Exxon crews during summer of 1989. I observed this area to have active deer, eagle, seal and waterfowl activity. Deer were using this subsegment as a kelp forage area. Driftwood present showed no oil staining. No oil observed in this subsegment. MLB

SHORELINE OILING SUMMARY

REVISION NO. 03/22/90

OG Penland NA Naughton SEGMENT ST/ K0101/ST012
 BIO spight LAND REP Goodwin/ADN SUBDIVISION A
 EXXON Byers ADEC Shelton TIME 8:46 to 11:08
 TEAM NO.: 19 TIDE LEVEL: +0.5 to +5.5 ft DATE 4/8/90
 EST. SUBDIVISION LENGTH: 1296 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: S to N
 SURFACE SEDIMENTS: R 30 % B 30 % C 40 % P 10 % G 0 % S 0 % M 0 % V 0 %
 SLOPE: Long 40 % Hang 30 % Vert 30 % WAVE EXPOSURE: ☐ Low ☐ Med ☒ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 0 m NO 1296 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR				IMPACTED ZONES			
	10	15	20	25	30	35	40	45	SU	U	M	L
ASPHALT PAVEMENT												
POOLED												
COVER												
COAT												
STAIN												
MOUSSE												
PATTIES												
TARBALLS												
FILM												
NO OIL												

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			
Vegetation			
Trash			
Debris			

DEBRIS COLLECTED
☐ YES ☒ NOTYPE —#BAGS 0

Photographs:

Roll No. ST-19-6Frames 22-27

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	30	35	40	45	SU	U	M	L		
1	30					X	.								X				Cobble
2	30					X	.									X			Cobble
3	30					X	.										X		Cobble
4	30					X	.								X				Gravel
5	30					X	.									X			Gravel
6	30					X	.										X		Gravel

COMMENTS

• no oil observed in segment A, 12 major pits dug and numerous smaller pits dug to inspect for oil, none observed.

• one piece of driftwood 10cm x 40cm was observed on beach, it appeared to be washed in by the last tide.

SHORELINE OILING SUMMARY (PAGE 2 of 2)

REVISION 03/22/88

SEGMENT ST/ K2121 SUBDIVISION A
ST 012

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		UG	UC	1	2	3	4	5	6	7	SU	UI	MI	LI		
7	30					X	-										X					Gravel
8	30					X	-											X				Gravel
9	30					X	-													X		Gravel
10	30					X	-										X					Gravel
11	30					X	-											X				Gravel
12	30					X	-													X		Gravel
							.															
							.															
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							.															
							.															
							.															
							.															

COMMENTS

REVIEWED BAT DATE 12 Apr 90

UG Kenland

SKETCH MAP

SEGMENT 7 K0121/SE012

SUBDIVISION A

DATE 4 / 4 / 90

CHECKLIST

- ✓ N Arrow
- ✓ Approx. Scale
- ✓ Seg/Sub Bdry
- ✓ Oil Dist
- Width
- Length
- % Cover
- ✓ Substrate Character
- ✓ Est. HPA/LAWL
- ✓ SSL
- ✓ Profile Location(s)
- ✓ Profile(s)
- ✓ PR Location(s)
- ✓ Photo Location(s)

LEGEND

1 Δ

PH - No Subsurface Oil

2 Δ

PH - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

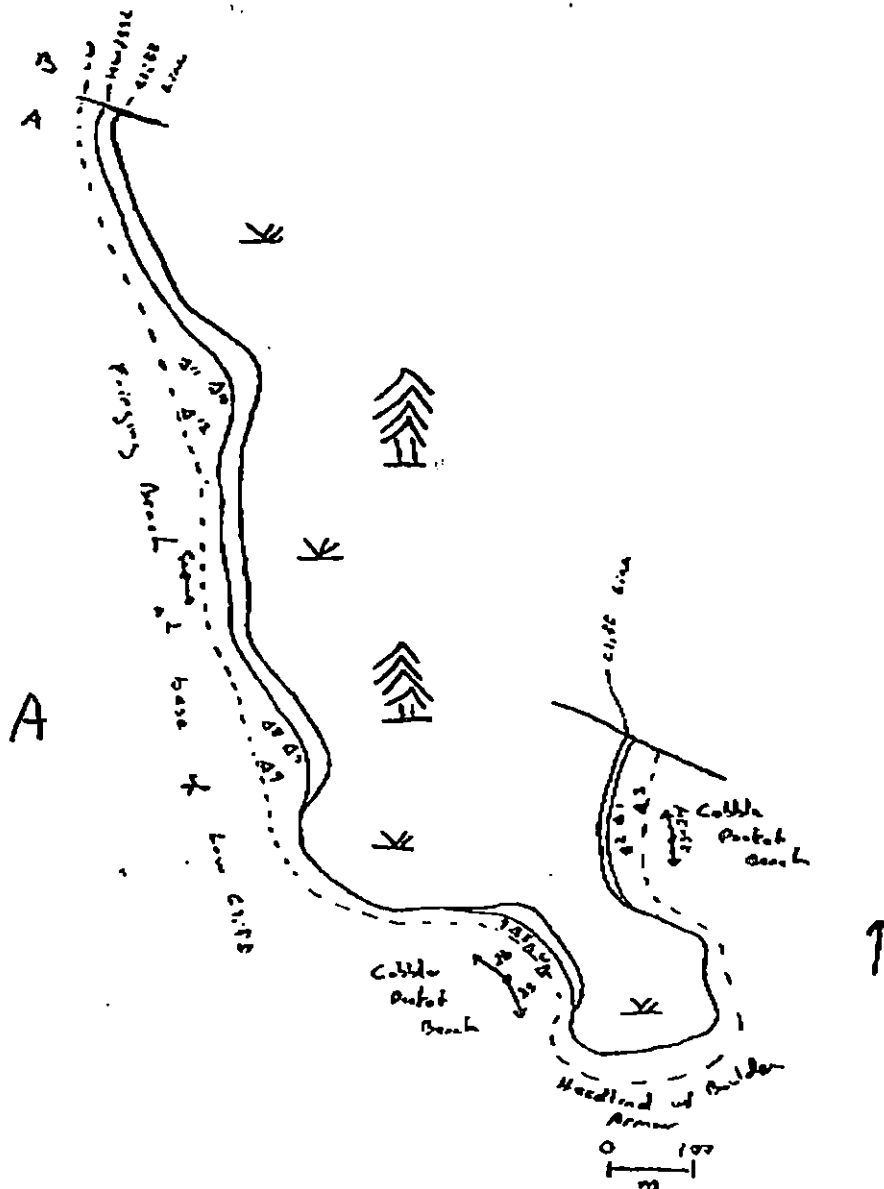
CT/S

Splashed Distribution

Oiled Vegetation

1 $\Rightarrow$

Photo location, direction,
and number



Oil Character Length (m): AP ☐ PO ☐ CV ☐ CT ☐ ST ☐ MS ☐ PT ☐ TB ☐ FL ☐ NO 1296

REVISION: 03/24/90

SHORELINE ECOLOGICAL SUMMARY

REVISION: 06/22/90

Segment ST / S1-12 Subdivision A Date (mo / day / yr) 4/8/90

Time (24 hr) 8:40 Biologist SP16HT

(A) Substrate type and % of segments:
(1) Bedrock 30 (2) Boulder 20 (3) Cobble 40 (4) Pebble 10 (5) Sand 0 (6) Silt 0

(B) Overall % cover of biota (% of segment): Dense 30 Moderate 30 Low 35

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

NOT PRESENT

MYTILUS

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

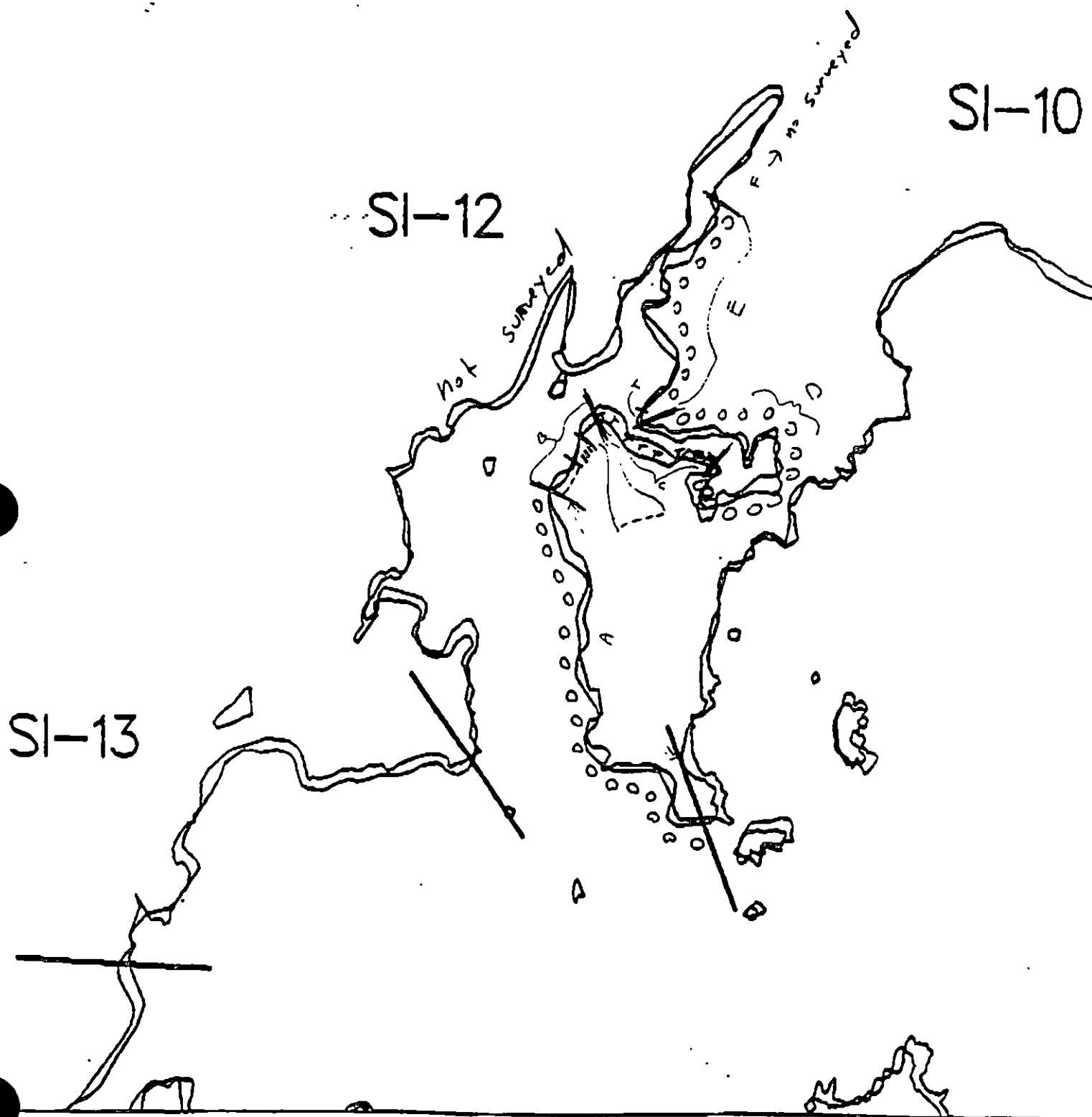
NOT PRESENT

Wildlife Observations/ General Comments:

harbor seal active in area

Ecological Considerations:

Section varies from diverse exposed community at headland to limited "barnacle cobble" assemblage at N limit
Species patchily dense with intervening areas of gravel, etc.



XXXX Wide

//// Medium

--- Narrow

SI-12

ADEC Segment Length: 9081m

Map Key: KOD-170

Name: Portland

REIMBURSABLE EXPENSES

Record all non-perdtem expenses such as:

Rental car, parking, officials' calls, tolls, misc. expenses.
taxi, registration fees, etc.

[illegible]

TRAVEL EXPENSES

Traveler's Name _____ Dates of Travel _____

Trip for _____

Date	Points of Departure and Arrival	Time	Mode of Travel	If FOR Show Miles Traveled
Departs				
Arrives				
Departs				
Arrives				
Departs				
Arrives				
Departs				
Arrives				
Departs				
Arrives				
Departs				
Arrives				
Departs				
Arrives				
Departs				
Arrives				
Departs				
Arrives				
Departs				
Arrives				

SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-12 SUBDIVISION A (1 OF 5) DATE 4/8/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

5T All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)
See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: [Signature] DATE: 4/28/90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 0 m: No Oil 1413 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: <u> </u> Wands
☐ Tarmat Removal	☐ Beach Cleaner
	☐ Other (see comments)

COMMENTS:

TAG COMMENTS:

TAG APPROVAL DATE: 4/26/90.
ADEC [Signature]
EXXON [Signature]
NOAA Gary Petrac
USCG KENNETH KEANE

FOSC: [Signature] DATE: 5-3-90

UU Keoland

SEGM TI K0121/5E012

SUBDIVISION 4

DATE 4 / 4 90

CHECKLIST

- ☒ N Arrow
- ☒ Approx. Scale
- ☒ Seg/Sub Entry
- ☒ Oil Dist.
- ☒ Width
- ☒ Length
- ☒ % Cover
- ☒ Substrate Character
- ☒ Est. FOR/LA/ML
- ☒ SSL
- ☒ Profile Location(s)
- ☒ PR Location(s)
- ☒ Photo Location(s)

LEGEND

1 Δ

PR - No Subsurface Oil

2 Δ

PR - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

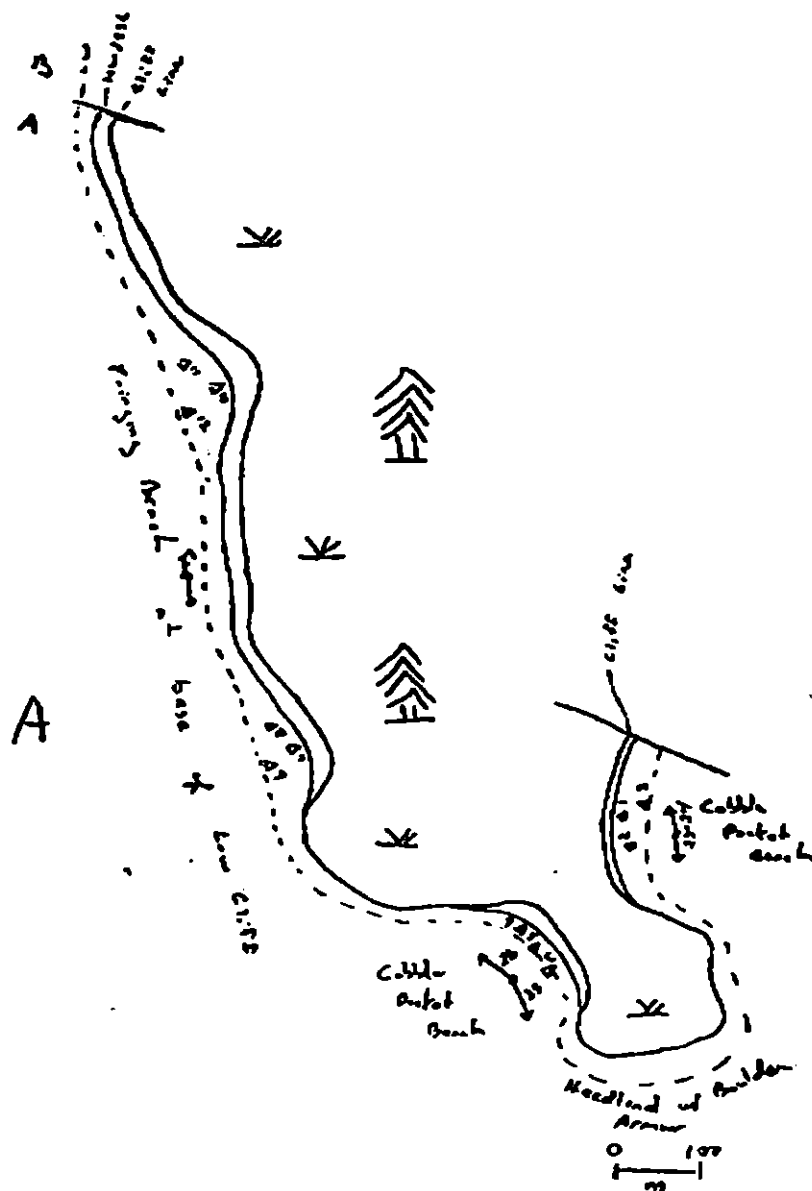
Splashed Distribution

Old Vegetation

1 $\Rightarrow$

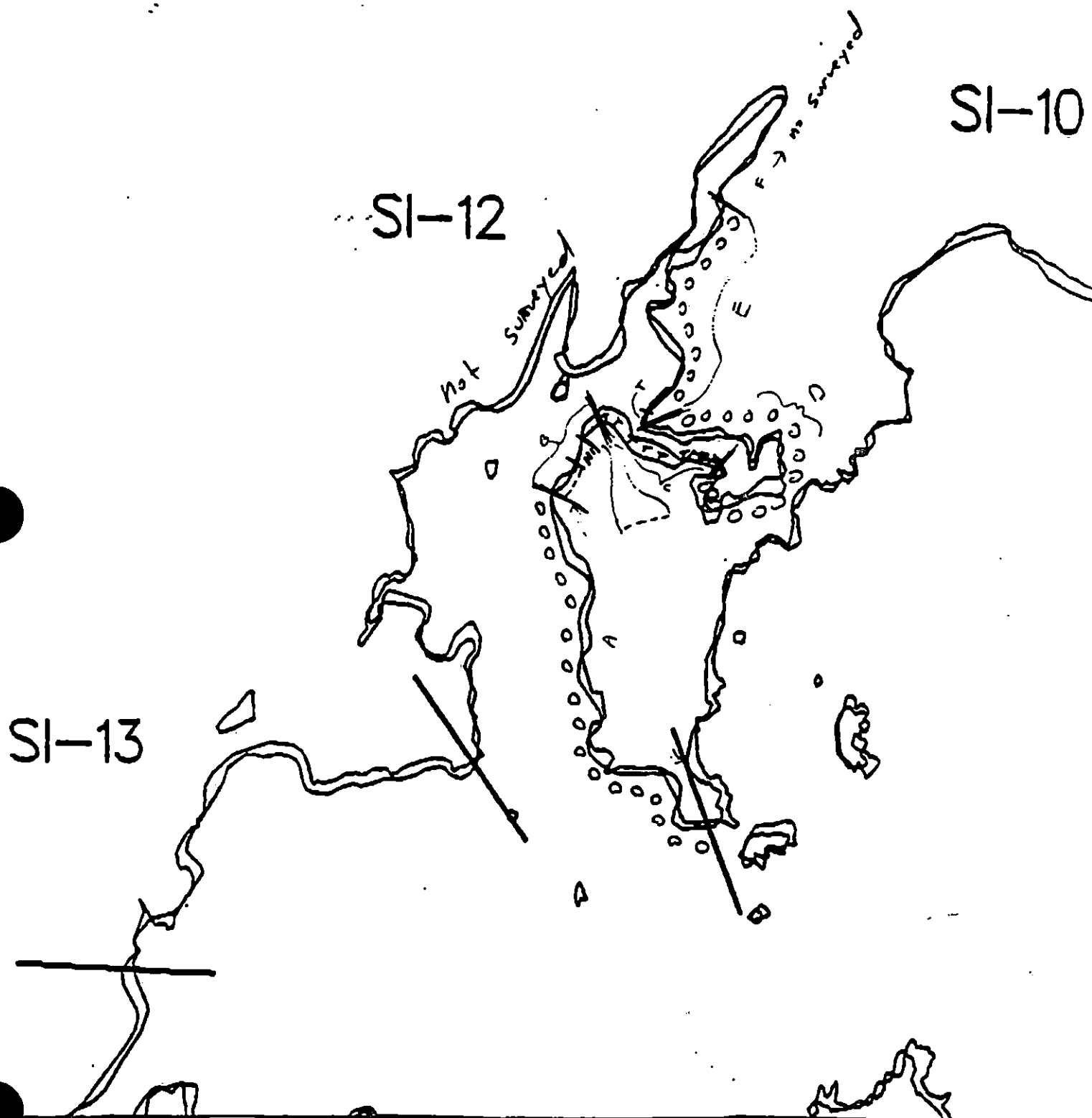
Photo location, direction,
and number

SKETCH MAP



Oil Character Length (m): AP ☐ PO ☐ CV ☐ CT ☐ ST ☐ MS ☐ PT ☐ TB ☐ FL ☐ NO 1296

REVISED 03/1/90



XXXX Wide
 /// Medium
 --- Narrow

SI-12

ADEC Segment Length: 9081m

Map Key: KOD-170

Name: Portland

REGION: KODIAK

SEGMENT: ST/K01-01-SI-12

SUBDIVISIONS: B (2 OF 5)

SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-12 SUBDIVISION B (2 OF 5) DATE 4/8/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

5T All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)
See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

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 83 m: Narrow 198 m: V.Light 0 m: No Oil 0 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 manual pick up of pooled oil using absorbents as necessary then bioremediate. Work should be conducted after 6/1 with approval of USFWS regarding eagle nest.

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____
EXXON _____
NOAA _____
USCG _____

FOSC: _____ DATE: _____

KODIAK ECOLOGICAL CONSTRAINTS

- 1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
 1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
 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 Kotol Bay Hatchery release
 Pink salmon - late May, early June; Chum salmon - June; Sockeye salmon - early July.
- 1H Remote release site
- 1I Gill net area
- 1J Purse seine area
 Mainland, West side Kodiak, Shuyak & Moser/Olga Bay - 6/9 to 10/1.
 East side Kodiak, East side Afognak - 7/4 to 10/1.
- 1K Purse seine hook-off
- 1L Set net sites
 USFWS setnet uplands permit 5/15 to 9/15.
- For Codes 1C through 1L contact ADF&G for specific dates, locations and constraints.
- 2M Herring spawning (4/15 to 6/30)
 Restrict boat traffic to essential minimum. Avoid damage to unhoiled intertidal and subtidal algae and seagrass.
 Contact ADF&G for specific dates and locations.
- 3N, 3P Harbor seal and sea lion pupping (5/10 to 6/30)
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m
 horizontal and 300m vertical distance from haulouts.
- 3O, 3Q Harbor seal and sea lion molting (8/15 to 9/15)
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m
 horizontal and 300m vertical distance from haulouts.
- 5R Seabird colony (5/1 to 8/31)
 Restrict air traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m
 vertical distance. Contact ADF&G and USFWS prior to treatment.
- 5S Shorebird/waterfowl concentration (4/1 to 5/15)
 Restrict all activity to essential minimum, especially air traffic.
- 5T All Bald Eagle nests (3/1 to 6/1)
 Active Bald Eagle nests (3/1 to 9/1)
 Restrict air traffic to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from
 and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to
 treatment for confirmation of dates.
- 6U Recreation: Tent sites (6/1 to 9/15)
- 6V Anchorages (6/1 to 9/15)
- 6W Forest Service cabins (6/1 to 9/15)
- 6X Lodge (6/1 to 9/15)
- 6Y Special use destination
- 7Z Subsistence area: Salmon harvesting (6/1 to 9/30)
- 7HH Finfish harvesting
- 7II Deer harvesting (8/1 to 1/7)
- 7JJ Invertebrate harvesting
- 7KK Bear harvesting (4/1 to 5/15 and 10/25 to 11/30)
- For Codes 7Z through 7JJ contact ADF&G and Chenega Corporation for specific dates, locations, and constraints.

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / K0101 / SI 012 SUBDIVISION: 3 DATE 4-8-90

~~NOAA~~
~~USCG~~

NAME John Naughton SIGNATURE John Naughton

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

mouse patches and pooled oil seen throughout this segment (subdivision B). Oil mixed in with sediment. This concentrated oil should be removed manually.

ADEC

NAME Scott Shelton SIGNATURE Scott Shelton

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

K0101 / SI 12 Sub. B 220 meter seg. length
Patches of mouse and occasional splashes of oil (weathered) can be observed throughout this segment (subdivision B)
Pooled areas broken in distribution. Impact length 170m x 3m
6 pits no subsurface oil observed.
Low energy beach good vessel and skiff access.
Manual clean up of oiled sediment suggested.

LAND MANAGER

NAME Mike Goodwin SIGNATURE Mike Goodwin

ADNR

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

This segment and subunit contains a 200m x 3m band of weathered mouse patches on the upper intertidal zone that I would recommend for removal by hand/manual clean up techniques. An upland camp was witnessed in this subunit as well as a fire scarred beach log on the upper intertidal. This area is also being reviewed for inclusion into the Shuyak Island State Park because of its high

SHORELINE OILING SUMMARY

REVISION NO. 03/22/98

3 Penland ~~USCG~~ ~~Neighan~~ SEGMENT ST/ K9121/5K012
 O Spight LAND REP Landwin/ADNS SUBDIVISION 3
 XX Byers ADEC Shelton TIME 8:46:10 11:08
 EAR 19 TIDE LEVEL: +2.5 10.55 4.2 DATE 4/8/90
 ST. SUBDIVISION LENGTH: 220 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 PLANDS DESCRIPTION: ☒ Grass ☒ Forest ☒ Rock
 URVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: S 10 4
 URFACE SEDIMENTS: R 10 % B 10 % C 50 % P 10 % G 10 % S 12 % M 0 % V 0 %
 LOPE: Lang 70 % Hang 15 % Vert 15 % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 IL CATEGORY LENGTH: W 0 m M 50 m N 170 m VL 0 m NO 0 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR				IMPACTED ZONES			
	10	15	20	25	30	35	40	45	SU	U	M	U
ASPHALT PAVEMENT												
POOLED		X				X	X			X		
COVER												
COAT												
STAIN												
MOUSSE												
PATTIES												
TAR BALLS												
FILM												
NO OIL										X	X	X

PAVEMENT: H F S 0 sq. m by 0 cm

PATTIES / TAR BALLS 0 BAGS

NEAR SHORE SHEEN? ☒ NO BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs	X		
Vegetation			
Trash			
Debris			

DEBRIS COLLECTED
☐ YES ☒ NO

TYPE N/A

#BAGS 0

Photographs:

Roll No. ST-19-6

Frames 28-34

SUBSURFACE OIL

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	UO	30	35	40	45	50	55	60	65	SU	U	M	U		
1	30					X	.											X					Gravel
2	30					X	.											X					Gravel
3	30					X	.											X					Gravel
4	30					X	.											X					Gravel
5	30					X	.											X					Gravel
6	30					X	.											X					Gravel

COMMENTS

. MS/S oil is distributed throughout subdivision B.
 . PO/B oil fills the cracks and inter-visible spaces on the surface of the beach. Inspection pits revealed oil in concentrated only in the surface layer.

00 Kenland

SEGMENT 1 Kora / ST012

SUBDIVISION B

DATE 4 / 8 / 90

CHECKLIST

- ☒ N Arrow
- ☒ Approx. Scale
- ☒ Seg/Sub Entry
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HVR/LVR
- ☐ SSL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ Pk Location(s)
- ☐ Photo Location(s)

LEGEND

1 Δ

PK - No Subsurface Oil

2 Δ

PK - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

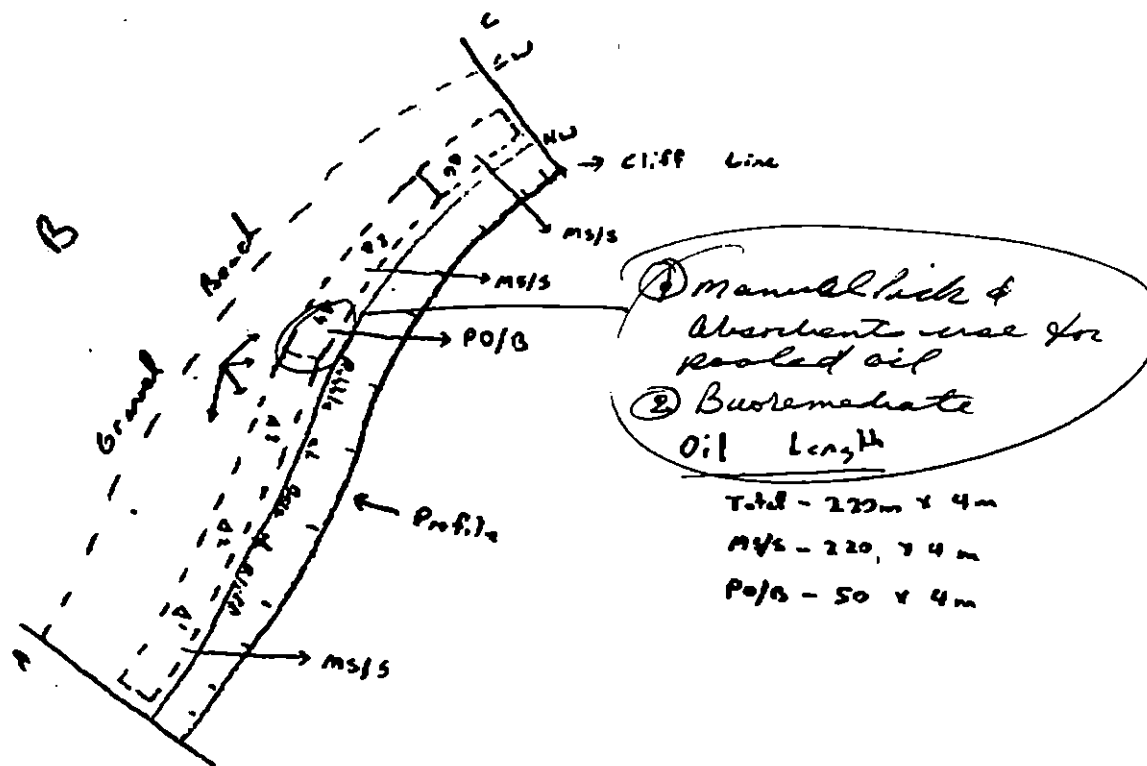
Splashed Distribution

Oil & Vegetation

1 $\Rightarrow$

Photo location, direction,
and number

SKETCH MAP



0 100
m

$\uparrow$ N

Oil Character Length (m): AP 0 PO 50 CV 0 CT 0 ST 0 MS 220 PT 0 TB 0 FL 0 NO 0

REVISION 00/0000

SHORELINE ECOLOGICAL SUMMARY

REVISION: 08/22/90

Segment ST/ 51-12 Subdivision B Date (mo / day / yr) 4/8/90

Time (24 hr) <10:31 Biologist SP/61FT

- (A) Substrate type and % of segments:
 (1) Bedrock 10 (2) Boulder 10 (3) Cobble 50 (4) Pebble 10 (5) Sand 10 (6) Silt 10
- (B) Overall % cover of biota (% of segment): Dense 30 Moderate 30 Low 40
- (C) Density, substrate preference (by number from A, above), & vertical zonation of major taxa: (upper-U; mid-M; low tidal-L); juveniles / adults (X), new settlement (3)

Photographs:
 Roll No. _____

Frames _____

BARNACLES

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

NOT PRESENT

MYTILUS

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

NOT PRESENT

GASTROPODS

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

NOT PRESENT

FUCUS

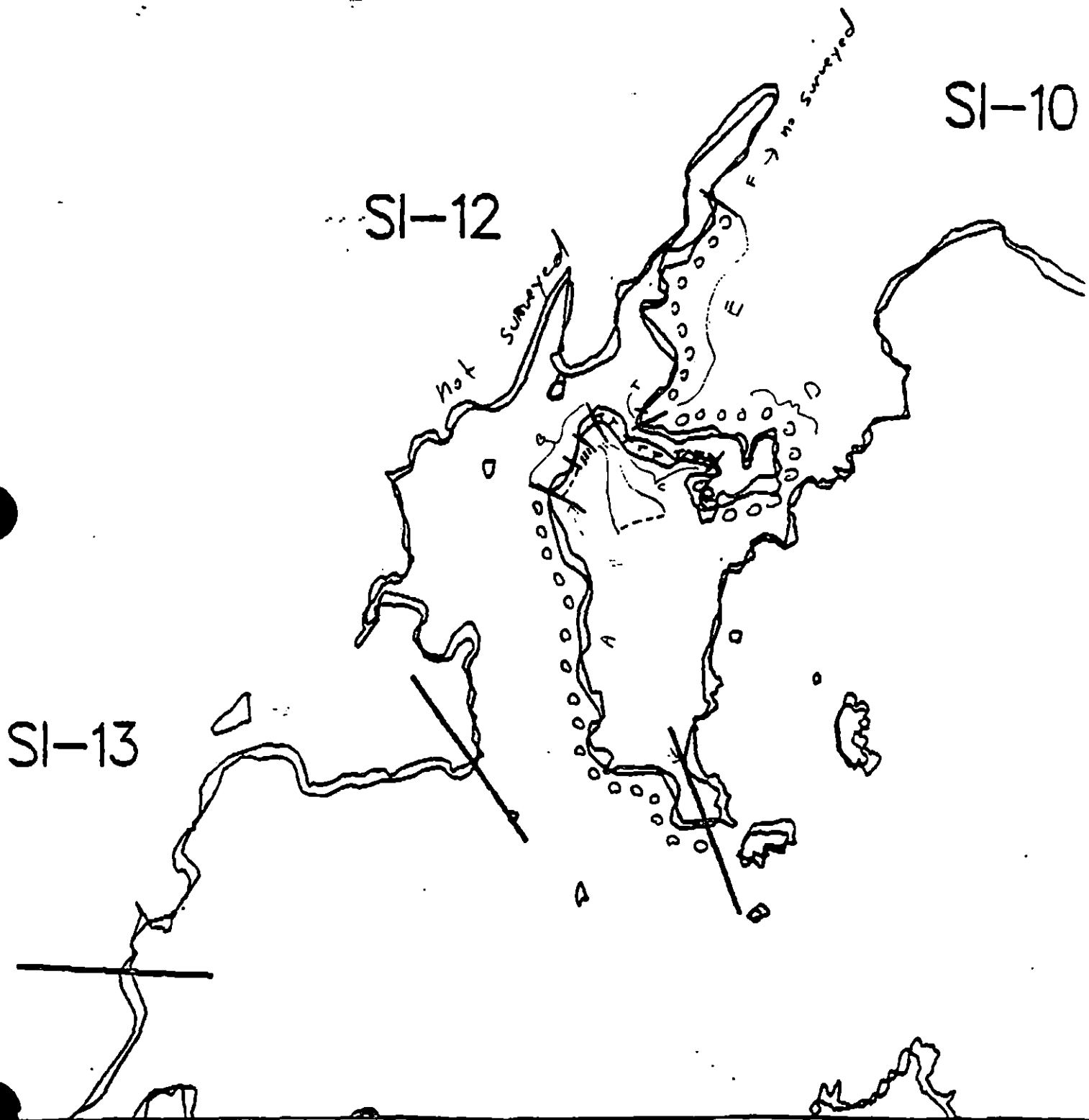
Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	X	X	X	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

Wildlife Observations/ General Comments:

by Mike Goodwin / A&NP
 This area contains habitat witnessed to contain
 deer, bald eagles, seals, and migratory waterfowl.

Ecological Considerations:



XXXX Wide
 /// Medium
 --- Narrow

SI-12

ADEC Segment Length: 9081m

Map Key: KOD-170

Name: Portland

SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-12 SUBDIVISION B (2 OF 5) DATE 4/8/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

5T All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)
See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

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: Charles E. H. H. H. DATE: 4/28/90

OILING CATEGORIZATION:

Wide 0 m: Medium 83 m: Narrow 198 m: V.Light 0 m: No Oil 0 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

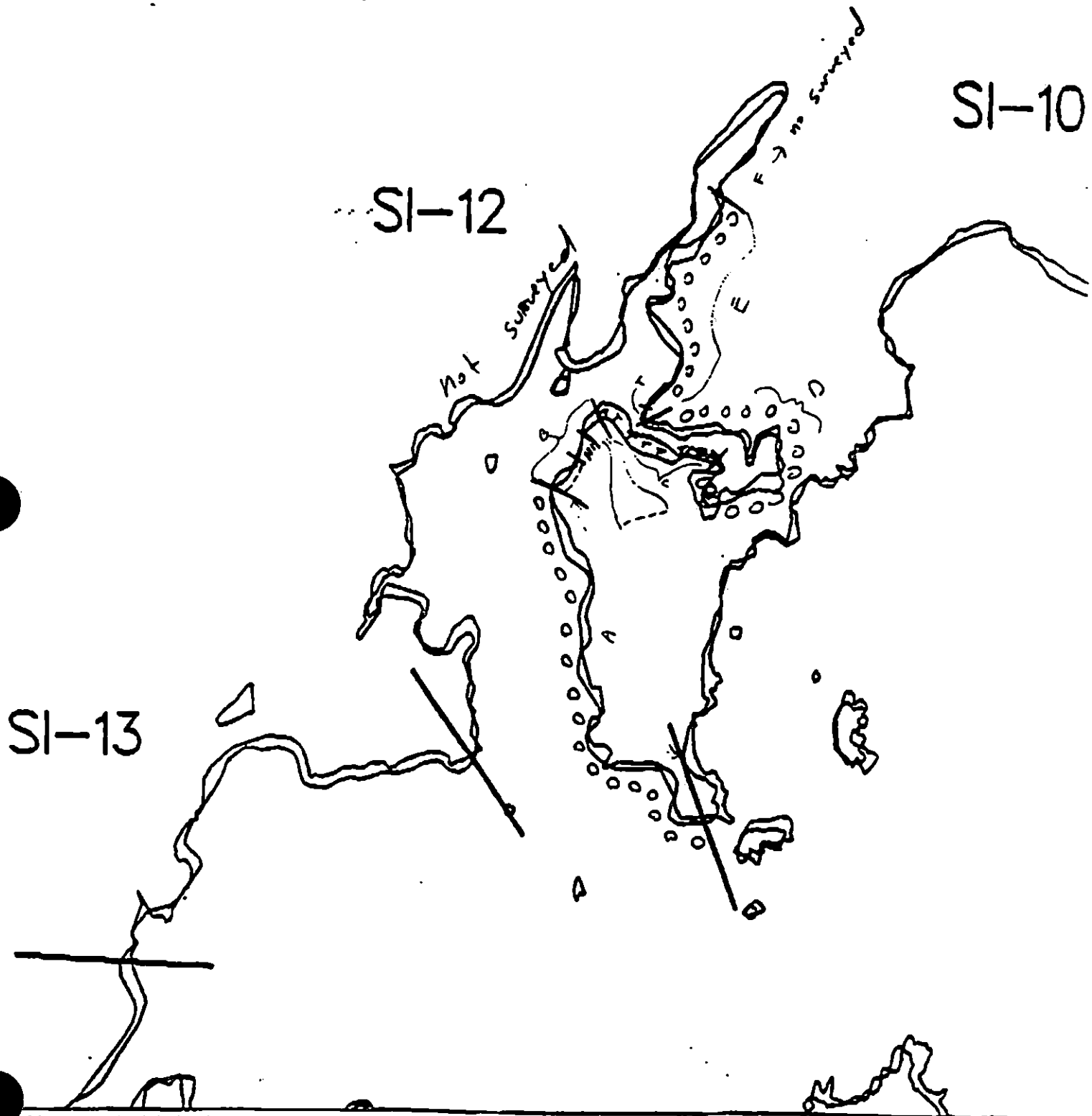
<u> </u> No Treatment Recommended	<u> </u> Snare/Absorbent Booms
<u>X</u> Treatment Recommended	<u> </u> Oil Snares (pom poms)
<u>X</u> Manual Pickup	<u>X</u> Absorbents (pads, rolls, etc)
<u>X</u> Bioremediation	<u> </u> Spot Washing: <u> </u> Wands
<u> </u> Tarmat Removal	<u> </u> Beach Cleaner
	<u>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

COMMENTS: Recommended treatment includes manual pick up of pooled oil using absorbents as necessary then bioremediate. Work should be conducted after 6/1 with approval of USFWS regarding eagle nest. ^TMOUSE B

TAG COMMENTS:

TAG APPROVAL DATE: 4/26/90
ADEC JOHN BANGS
EXXON ANDY FEAR
NOAA GARY PETRAE
USCG KENNETH KIRK

FOSC: DATE: 5-3-90



SI-12

ADEC Segment Length: 9081m

ADDENDUM: SUBDIVISION CONSTRAINTS

SEGMENT K01-01-SI-12 SUBDIVISION B (2 of 8)

WORK WINDOW	
Manual Pickup	OPEN
Bioremediation	OPEN

ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

5T Bald Eagle Nest

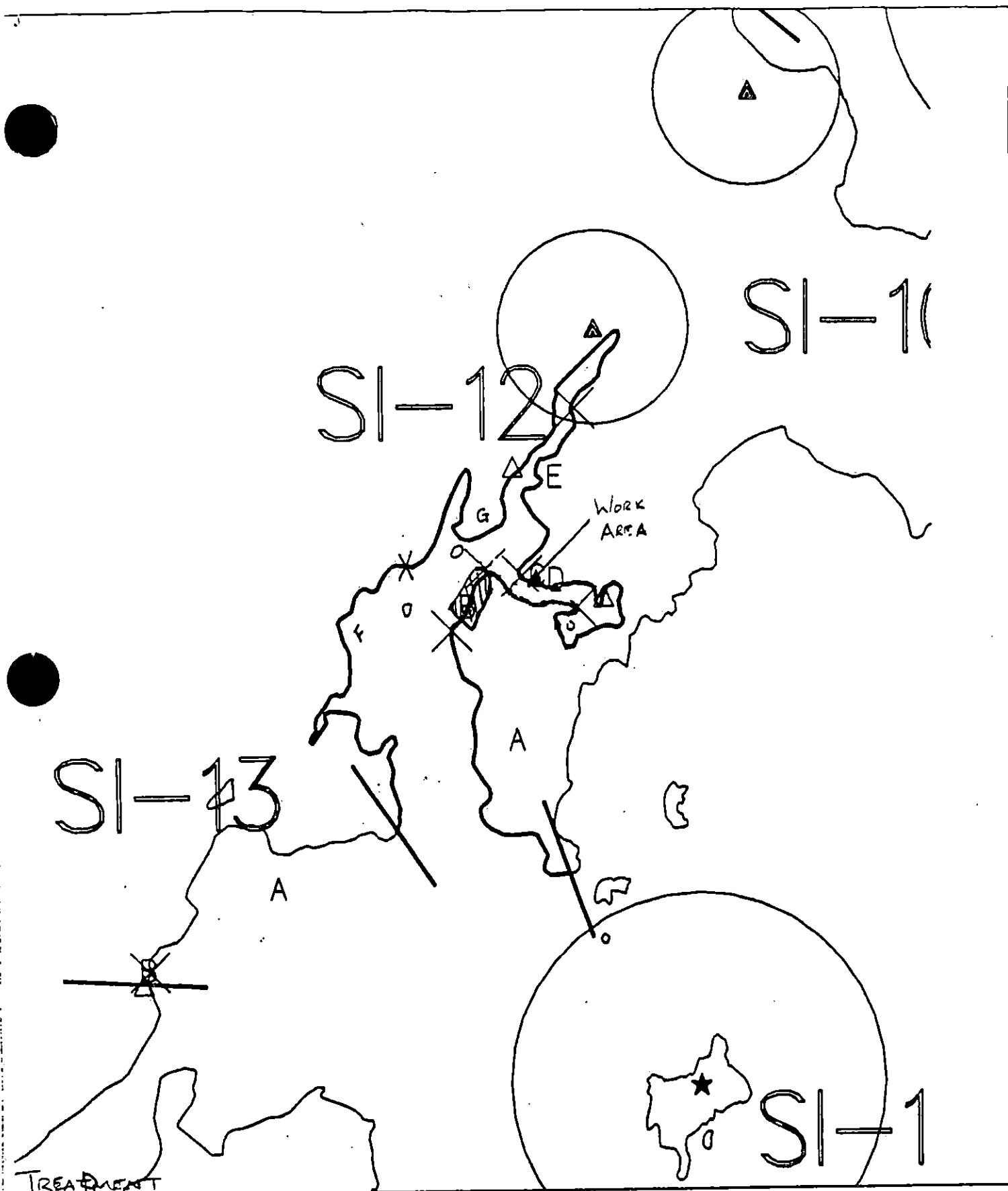
NO CONSTRAINT. USFWS 4/9/90 map indicates no active nest within 400m of Subdivision B work site.

OTHER ECOLOGICAL CONSIDERATIONS

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

FOSC W L Date 6-22-90

Prepared by J. Phillips Date 6/22/90



Exxon Company, USA

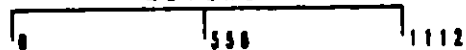
Map Key: KOD-SI-12

June 10, 1990



ECOLOGY MAP
 SEGMENT K1-1 SI-12
 SUBDIVISION B (2 of 8)

METERS



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

1 inch = 1024 feet

SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-12 SUBDIVISION B (2 OF 5) DATE 4/8/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

ST All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)
See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

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: Charles E. Adams

DATE: 4/28/90

OILING CATEGORIZATION:

Wide 0 m: Medium 83 m: Narrow 198 m: V.Light 0 m: No Oil 0 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

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

COMMENTS: Recommended treatment includes manual pick up of pooled oil using absorbents as necessary then bioremediate. Work should be conducted after 6/1 with approval of USFWS regarding eagle nest. ^{THOUS}

SEE CONSTRAINTS ADDENDUM

DATED 06/12/90 Rev C.

TAG COMMENTS:

TAG APPROVAL DATE: 4/26/90

ADEC JOHN BANGE
EXXON ANDY TGA
NOAA GARY PETER
USCG KENNETH HERRICK

FOSC:

DATE: 5-3-90

REGION: KODIAK

SEGMENT: ST/K01-01-SI-12

SUBDIVISIONS: C (3 OF ⁷5)

SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-12 SUBDIVISION C (3 OF 5) DATE 4/8/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

5T All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)
See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

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 437 m: No Oil 0 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: _____

TAG COMMENTS: _____

TAG APPROVAL DATE: _____
ADEC _____
EXXON _____
NOAA _____
USCG _____

FOSC: _____ DATE: _____

KODIAK ECOLOGICAL CONSTRAINTS

- 1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
 1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
 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 Kotol Bay Hatchery release
 Pink salmon - late May, early June; Chum salmon - June; Sockeye salmon - early July.
- 1H Remote release site
- 1I Gill net area
- 1J Purse seine area
 Mainland, West side Kodiak, Shuyak & Moser/Olga Bay - 6/9 to 10/1.
 East side Kodiak, East side Afognak - 7/4 to 10/1.
- 1K Purse seine hook-off
- 1L Set net sites
 USFWS setnet uplands permit 5/15 to 9/15.
- For Codes 1C through 1L contact ADF&G for specific dates, locations and constraints.
- 2M Herring spawning (4/15 to 6/30)
 Restrict boat traffic to essential minimum. Avoid damage to unopened intertidal and subtidal algae and seagrass.
 Contact ADF&G for specific dates and locations.
- 3N, 3P Harbor seal and sea lion pupping (5/10 to 6/30)
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 3O, 3Q Harbor seal and sea lion molting (8/15 to 9/15)
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 5R Seabird colony (5/1 to 8/31)
 Restrict air traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance. Contact ADF&G and USFWS prior to treatment.
- 5S Shorebird/waterfowl concentration (4/1 to 5/15)
 Restrict all activity to essential minimum, especially air traffic.
- 5T ~~All Bald Eagle nests (3/1 to 6/1)~~
~~Active Bald Eagle nests (3/1 to 9/1)~~
 Restrict air traffic to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates.
- 6U Recreation: Tent sites (6/1 to 9/15)
- 6V Anchorages (6/1 to 9/15)
- 6W Forest Service cabins (6/1 to 9/15)
- 6X Lodge (6/1 to 9/15)
- 6Y Special use destination
- 7Z Subsistence area: Salmon harvesting (6/1 to 9/30)
- 7HH Finfish harvesting
- 7II Deer harvesting (8/1 to 1/7)
- 7JJ Invertebrate harvesting
- 7KK Bear harvesting (4/1 to 5/15 and 10/25 to 11/30)
 For Codes 7Z through 7JJ contact ADF&G and Chenega Corporation for specific dates, locations, and constraints.

FIELD SHORELINE COMMENT SHEET

MENT ST / K0121 / SIO12 SUBDIVISION: C DATE 4-8-90

NOAA
USCG

NAME John Naughton SIGNATURE John J. Naughton

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED

COMMENTS

Only a few scattered mouse patties and some splatter observed. Not worth disturbance of area to clean. However, one individual from crew cleaning subdivision B might walk subdivision C and manually remove few patties.

ADEC

NAME Scott Shelton SIGNATURE Scott Shelton

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED

COMMENTS K0101 - SIO12

270 meters seg. length.

Manual clean up of scattered splatters of mouse on sediment suggested. 270 meters VL impact in upper tidal levels. Pits dug no subsurface oil observed - low energy area. Sub. C. Sporadic band 2 meters wide within easy skiff access.

LAND MANAGER

NAME Mike Cochran SIGNATURE Mike Cochran

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED

COMMENTS

A manual clean up of the scattered mouse patties is recommended in this subdivision "C" as part of the clean up recommended for this segment and subdivision "B". This subdivision also has high scenic and recreational value for boaters and sea kayakers and is being recommended for future inclusion into Stuyall Island State Park.

SHORELINE OILING SUMMARY

REVISION NO. 03/22

OG Penland USCG Neigh Ln SEGMENT ST/ K 0101 / 52012
 BIO Spight LAND REP Headman / ADNR SUBDIVISION C
 EXXON Oxys ADEC Shelton TIME 8:46 to 11:00
 TEAM NO.: 19 TIDE LEVEL: 0.5 ft to 5.5 ft DATE 4/8/90
 EST. SUBDIVISION LENGTH: 270 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: S to N
 SURFACE SEDIMENTS: R 10 % B 10 % C 50 % P 10 % G 10 % S 10 % M 0 % V 0
 SLOPE: Long 70 % Hang 15 % Vert 15 % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 270 m NO 0 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR						IMPACTED ZONES			
	C	N	P	S	SB/BR	DB/RW	GY/SL	DBR/TL	LRH		SU	UI	MI	LI
ASPHALT PAVEMENT														
POOLED														
COVER														
COAT														
STAIN														
MOUSSE				X				X			X			
PATTIES														
TARBALLS														
FILM														
NO OIL											X	X	X	X

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

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

DEBRIS COLLECTED

☐ YES ☒ NOTYPE N/A#BAGS 0

Photographs:

Roll No. 57-14-6Frames 35-36

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	SB/BR	DB/RW	GY/SL	DBR/TL	LRH		SU	UI	MI	LI		
1	30					X	.							X		X					gravel
2	30					X	.							X		X					"
3	30					X	.							X		X					"
4	30					X	.							X		X					"
5	30					X	.							X		X					"
6	30					X	.							X		X					"

↑ DISREGARD - ERROR BY PENLAND

COMMENTS

• seabed material moved around in subdivision C

• Six major pits and random smaller pits dug through area, no oil observed

OG Penland

SEGMENT SW 1/4 101 / SE 012

SUBDIVISION C

DATE 4 / 8 90

CHECKLIST

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

LEGEND

1 Δ

Pk - No Subsurface Oil

2 Δ

Pk - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

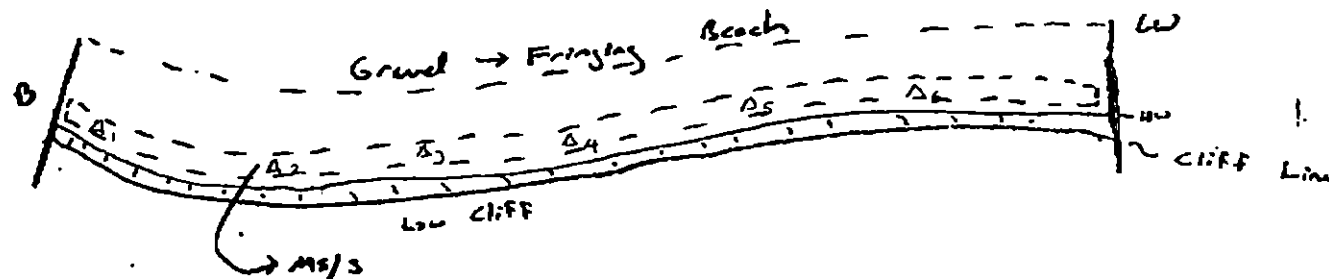
Spotted Distribution

Oiled Vegetation

1 $\Rightarrow$

Photo location, direction,
and number

SKETCH MAP



Oil Character Length (m): AP 0 PO 0 CV 0 CT 0 ST 0 MS 270 PT 0 TB 0 FL 0 NO 0

REVISION 5/3/99

SHORELINE ECOLOGICAL SUMMARY

REVISION:

Segment ST / 51-12 Subdivision C Date (mo / day / yr) 4/8/90

Time (24 hr) 10:31 Biologist SPIGHT

(A) Substrate type and % of segments:

(1) Bedrock 10 (2) Boulder 10 (3) Cobble 50 (4) Pebble 10 (5) Sand 10 (6) Silt 0

(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		
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	X	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 PRE

MYTILUS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	X	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 PRE

GASTROPODS

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

NOT PRE

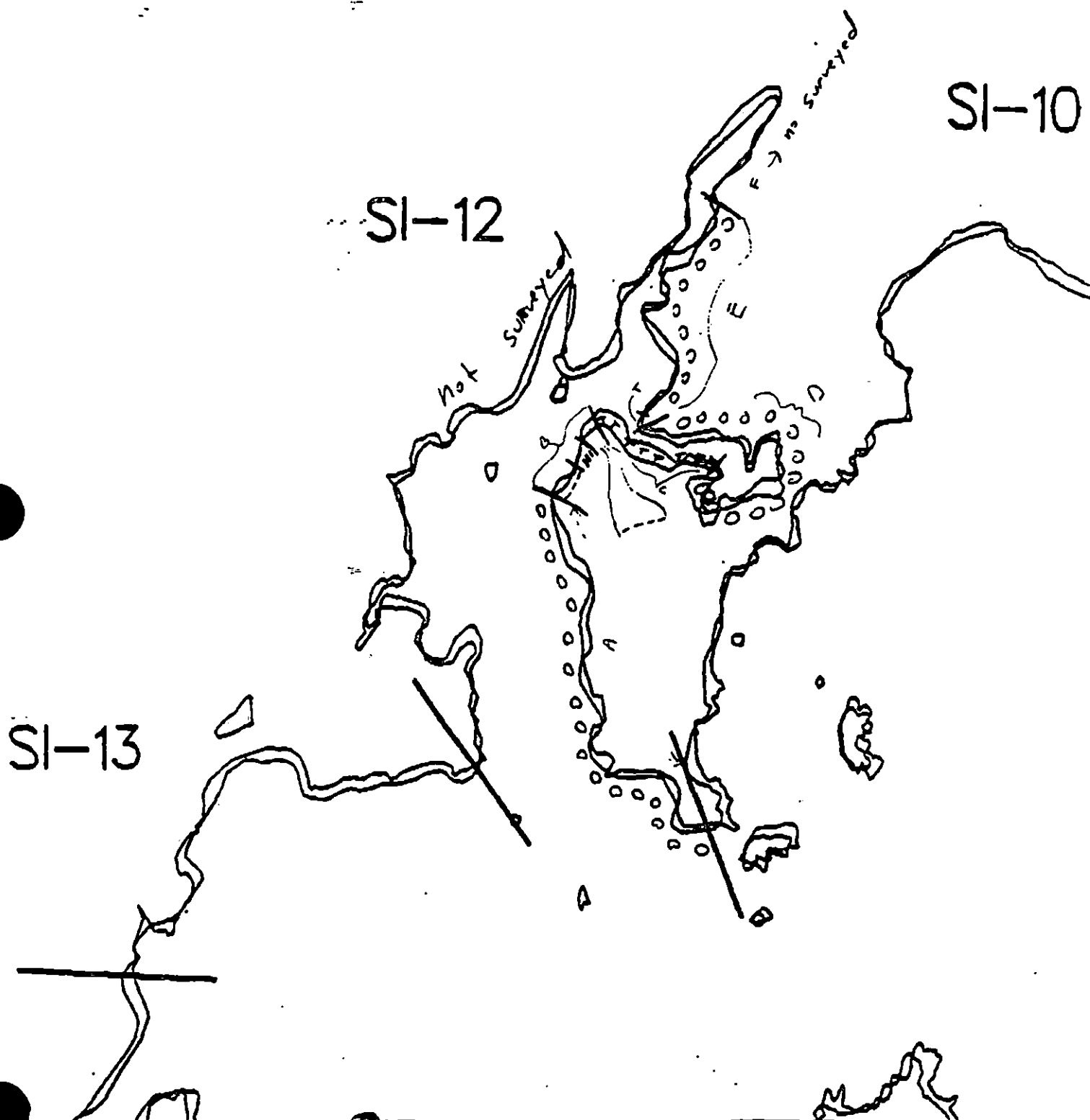
FUCUS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	X	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 PRE

Wildlife Observations/ General Comments:

Ecological Considerations:



SI-13

SI-12

SI-10

XXXX Wide

//// Medium

--- Narrow

SI-12

ADEC Segment Length: 9081m

Map Key: KOD-170

Name: Portland

SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-12 SUBDIVISION C (3 OF 5) DATE 4/8/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

5T All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)
See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

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 0 m: V.Light 437 m: No Oil 0 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: MANUAL PICKUP OF MOUSE PATTIES DUE TO
HIGH HUMAN USE INDICATED BY LAND MANAGER

TAG COMMENTS: _____

TAG APPROVAL DATE: 4/26/90

ADEC JOHN BAUER
EXXON AMY Tate
NOAA GARY Petrac
USCG KENNETH KEANE

FOSC: L DATE: 5-8-90

OG Pen

SEARCH MAP

SEGMENT ST/ K9101/SE012

SUBDIVISION C

DATE 4 / 8 / 90

CHECKLIST

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

LEGEND

1 Δ

PE - No Subsurface Oil

2 Δ

PE - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

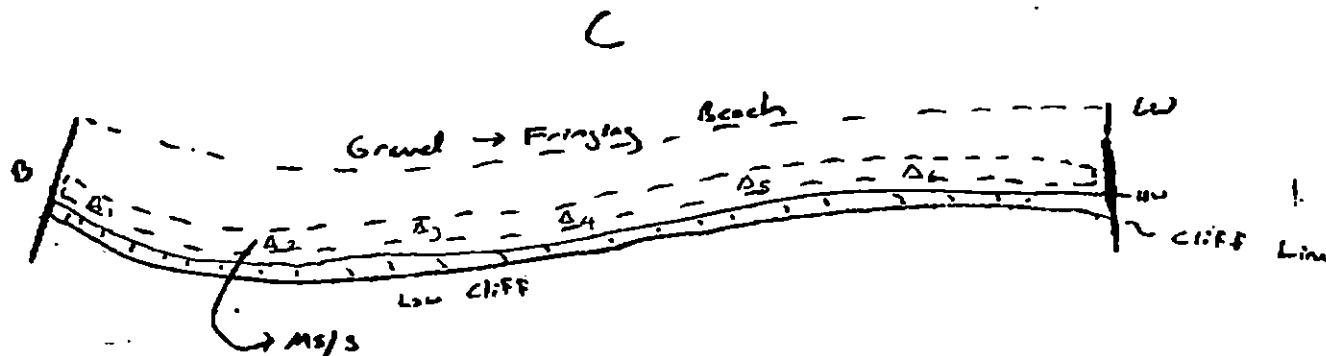
CT/S

Spashed Distribution

Oiled Vegetation

1 $\Rightarrow$

Photo location, direction,
and number



Total oil - 2m x 270m
MS/S



Oil Character Length (m): AP 0 PO 0 CV 0 CT 0 ST 0 MS 270 PT 0 TB 0 FL 0 NO 0

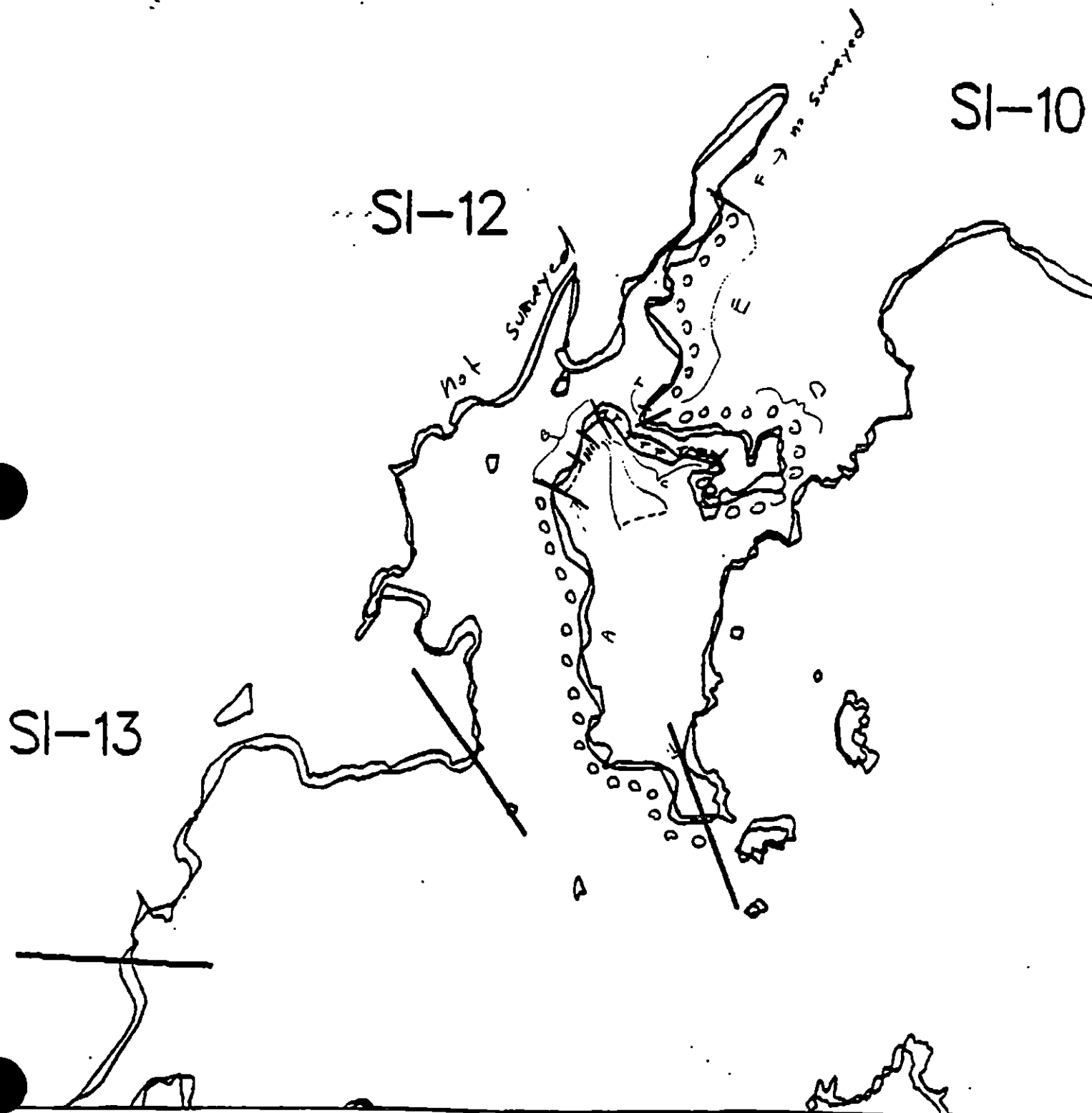
REVISIONS

APR-09-1990 19:21 FROM EXXON KODIAK

TO

15643771

P.14



XXXX Wide

//// Medium

---- Narrow

SI-12

ADEC Segment Length: 9081m

Map Key: KOD-170

Name: Priland

ADDENDUM: SUBDIVISION CONSTRAINTS

SEGMENT KO1-01-SI-12 SUBDIVISION C (3 of 5)

WORK WINDOW	
Manual Pickup	OPEN

ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

5T Bald Eagle Nest

NO CONSTRAINT. USFWS 4/9/90 map indicates no active nest within 400m of Subdivision C work site.

OTHER ECOLOGICAL CONSIDERATIONS

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

OSC

D. D. Rome

Date

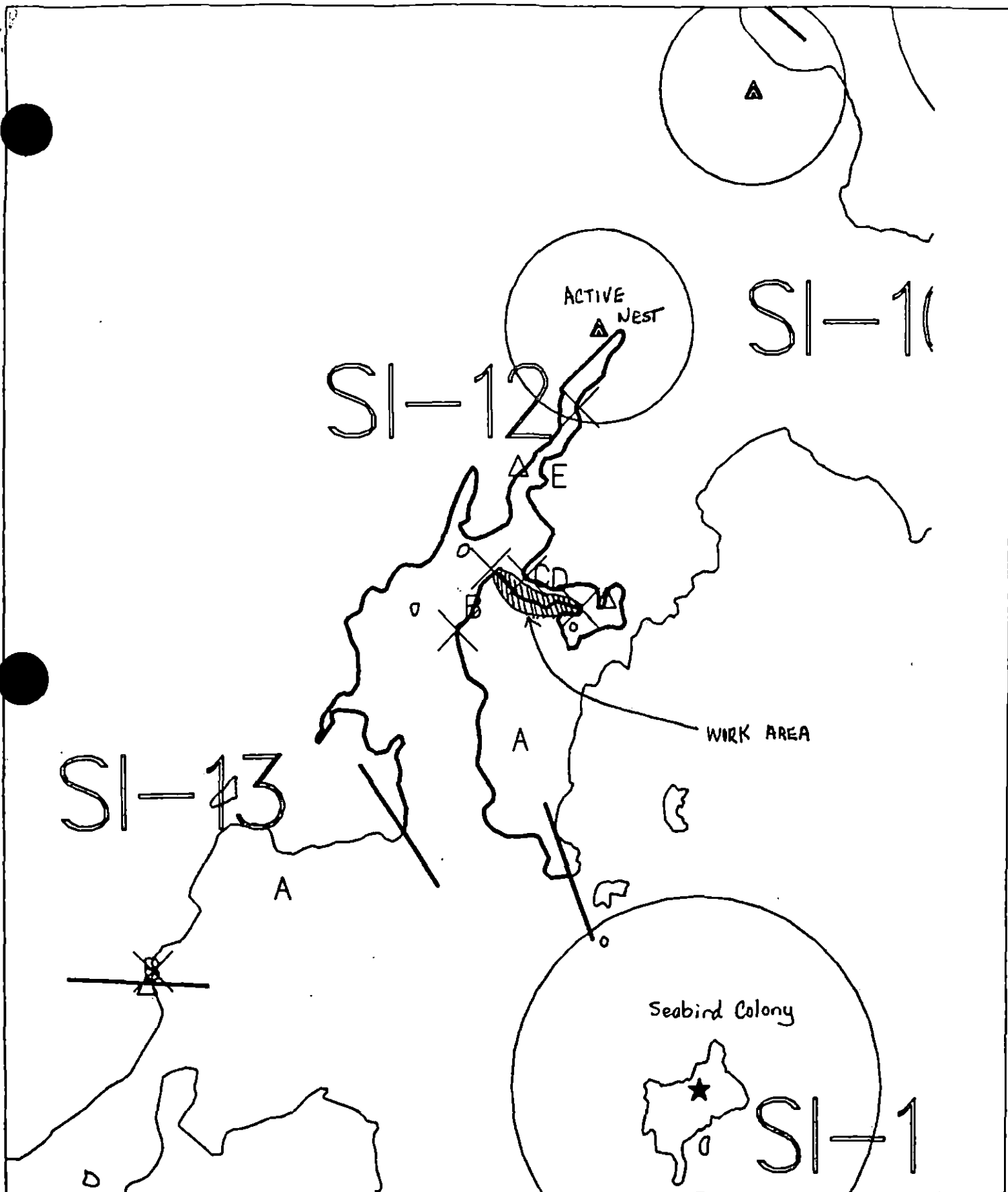
6/24/90

Prepared by

J. P. Phillips

Date

6/22/90



Exxon Company, USA

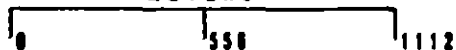
Map Key: KOD-SI-12

June 10, 1990



ECOLOGY MAP
SEGMENT KI-1 SI-12
SUBDIVISION C (3 of 5)

METERS



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

1 inch = 1824 feet

SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-12 SUBDIVISION C (3 OF 5) DATE 4/8/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

ST All bald eagle nests (3/1 to 6/1) - Active eagle nests (3/1 to 9/1)
See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

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: Charles E. Holmes

DATE: June 19, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 437 m: No Oil 0 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: <u> </u> Wands
☐ Tarmat Removal	☐ Beach Cleaner
	☐ Other (see comments)

COMMENTS:

MANUAL PICKUP OF MOUSE PARTIES DUE TO
HIGH HUMAN USE INDICATED BY LAND MANAGER

SEE CONSTRAINTS ADDENDUM DATED: 6/22/90

TAG COMMENTS:

TAG APPROVAL DATE:

ADEC JOHN BAUER
EXXON ANDY GALT
NOAA GARY PETRAE
USCG KENNETH KEANE

FOSC:

DATE: 5-8-90

REGION: KODIAK

SEGMENT: ST/K01-01-SI-12

SUBDIVISIONS: D (4 OF ⁷5)

SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-12 SUBDIVISION D (4 OF 5) DATE 4/8/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

ST All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)
See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

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 0 m: No Oil 1192 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: _____

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____
EXXON _____
NOAA _____
USCG _____

FOSC: _____ DATE: _____

KODIAK ECOLOGICAL CONSTRAINTS

- 1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
 1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
 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 Kotol Bay Hatchery release
 Pink salmon - late May, early June; Chum salmon - June; Sockeye salmon - early July.
- 1H Remote release site
- 1I Gill net area
- 1J Purse seine area
 Mainland, West side Kodiak, Shuyak & Moser/Olga Bay - 6/9 to 10/1.
 East side Kodiak, East side Afognak - 7/4 to 10/1.
- 1K Purse seine hook-off
- 1L Set net sites
 USFWS setnet uplands permit 5/15 to 9/15.
- For Codes 1C through 1L contact ADF&G for specific dates, locations and constraints.
- 2M Herring spawning (4/15 to 6/30)
 Restrict boat traffic to essential minimum. Avoid damage to unholed intertidal and subtidal algae and seagrass. Contact ADF&G for specific dates and locations.
- 3N, 3P Harbor seal and sea lion pupping (5/10 to 6/30)
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 3O, 3Q Harbor seal and sea lion molting (8/15 to 9/15)
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 5R Seabird colony (5/1 to 8/31)
 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 9/1)~~
 Active Bald Eagle nests (3/1 to 9/1)
 Restrict air traffic to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates.
- 6U Recreation: Tent sites (6/1 to 9/15)
- 6V Anchorages (6/1 to 9/15)
- 6W Forest Service cabins (6/1 to 9/15)
- 6X Lodge (6/1 to 9/15)
- 6Y Special use destination
- 7Z Subsistence area: Salmon harvesting (6/1 to 9/30)
- 7HH Finfish harvesting
- 7II Deer harvesting (8/1 to 1/7)
- 7JJ Invertebrate harvesting
- 7KK Bear harvesting (4/1 to 5/15 and 10/25 to 11/30)
- For Codes 7Z through 7JJ contact ADF&G and Chenega Corporation for specific dates, locations, and constraints.

FIELD SHORELINE COMMENT SHEET

SEGMENT ST/ K0101/ST012 SUBDIVISION: D DATE 4-8-90

NAAA
USCG

NAME John Naughton SIGNATURE John J. Naughton

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

No oil observed in this back bay area. Substrate primarily fine sediment.

ADEC
NAME

Scott Shelton SIGNATURE Scott Shelton

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

K0101 ST012 Sub. D.
NO oil observed Segment included mudflats lagoon areas. 1420 meters walked 6 pits at the upper tidal areas observed no subsurface CERCLA. Markers observed inside lagoons east side.

LAND MANAGER

NAME Dike Goodwin SIGNATURE Michael Goodwin

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

No oil was observed in this subdivision. A CERCLA damage Assessment orange painted Marker was visible on a rock cliff face at the eastern end of this subdivision. This presents an intrusion on the aesthetics of the area and is recommended for removal.

SHORELINE OILING SUMMARY

REVISION NO. 03/82

OG Portland USCG Nautilus SEGMENT ST/ K011/SP012
 BIO Spring LAND REP Goodwin DR SUBDIVISION 0
 EXXON 0 ADEC Shelton TIME 8:46 to 11:00
 TEAM NO.: 19 TIDE LEVEL: 0.5 PL to 5.5 PL DATE 4/8/90
 EST. SUBDIVISION LENGTH: 1420 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: S to N
 SURFACE SEDIMENTS: R 10 % B 10 % C 30 % P 20 % G 20 % S 10 % M 0 % V 0
 SLOPE: Long 70 % Hang 15 % Vert 15 % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 0 m NO 1420 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	IC	IS	IP	IR	1	2	3	4	5	6	7	8	SU	U	M	L
ASPHALT PAVEMENT																
POOLED																
COVER																
COAT																
STAIN																
MOUSSE																
PATTIES																
TARBALLS																
FILM																
NO OIL													X	X	X	X

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			

DEBRIS COLLECTED:
☐ YES ☒ NOTYPE N/A#BAGS 0

Photographs:

Roll No. —Frames —

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM)	BELOW		OIL / FILM COLOR								PIT ZONE				A N A	SUBSURFACE SEDIMENTS	
		OP	OR	OL	OF	NO		UO	UC	1	2	3	4	5	6	7	8	SU	U	M	L			
1	30					X	.											X						Gravel
2	30					X	.											X						Gravel
3	30					X	.											X						Gravel
4	30					X	.											X						Gravel
5	30					X	.											X						Gravel
6	30					X	.											X						Gravel

COMMENTS

Area inspected, six pits dug, small random pits dug and no oil observed

BAT 12 Apr 90

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22

Segment ST / S 1-12 Subdivision D Date (mo / day / yr) 4/8/90

Time (24 hr) 7:10:31 Biologist SP16HT

(A) Substrate type and % of segments:
(1) Bedrock 10 (2) Boulder 10 (3) Cobble 30 (4) Pebble 20 (5) Sand 20 (6) Silt 0

(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		
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	X	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 PRESEN

MYTILUS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	X	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 PRESEN

GASTROPODS

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

NOT PRESEN

FUCUS

Dense			Moderate			Sparse			Rare		
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	X	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 PRESEN

Wildlife Observations/ General Comments:

Ecological Considerations:

OG Perched

SEGMENT 17 K0101/ST012

SUBDIVISION 0

DATE 4 / 8 90

SKETCH MAP

CHECKLIST

- ☐ N Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Entry
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HW/LWL
- ☐ SST
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ PR Location(s)
- ☐ Photo Location(s)

LEGEND



PR - No Subsurface Oil



PR - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

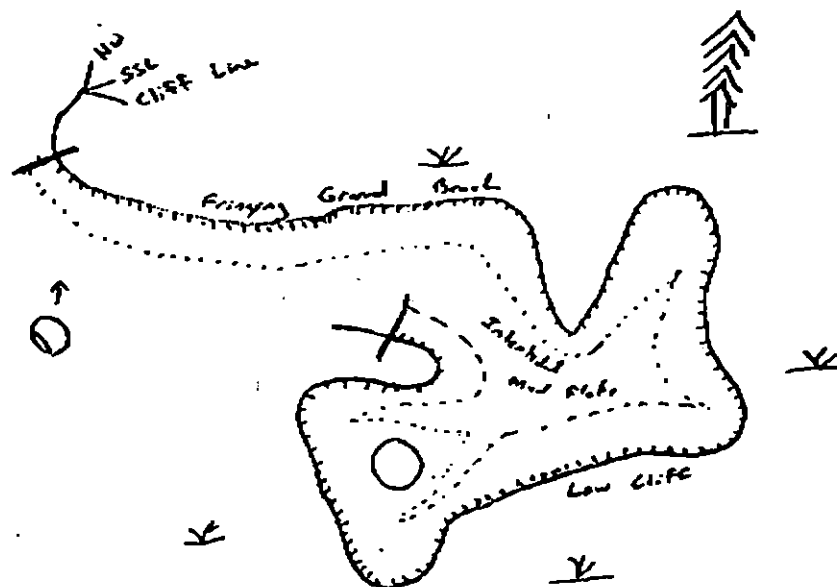
CT/S

Spotted Distribution

Oil Vegetation

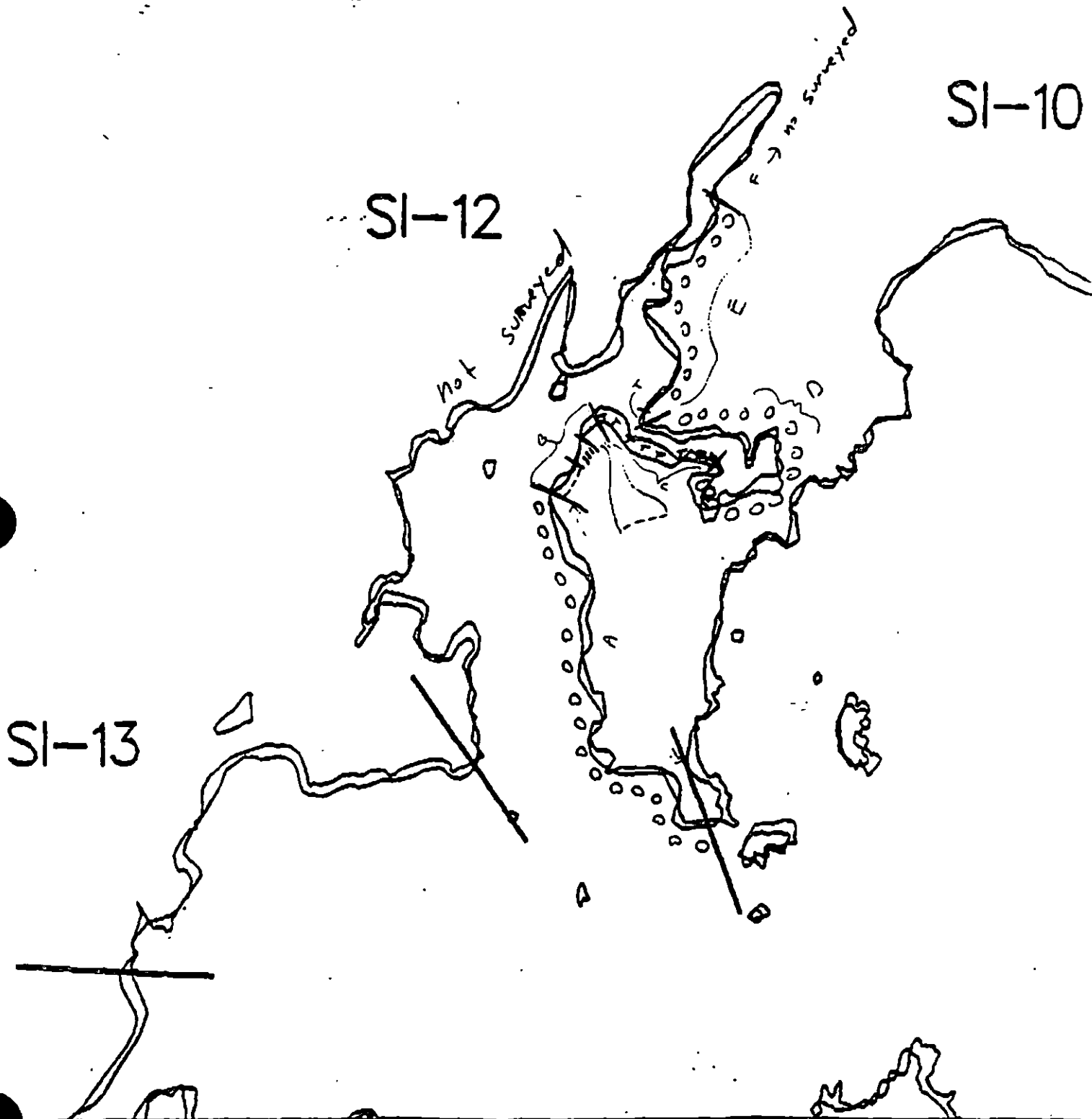


Photo location, direction,
and number



Oil Character Length (m): AP 0 PO 0 CV 0 CT 0 ST 0 MS 0 PT 0 TB 0 FL 0 NO 1420

REVISION: 03/24/98



XXXX Wide
 /// Medium
 --- Narrow

SI-12

ADEC Segment Length: 9081m

Map Key: KOD-170

Name: Portland

SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-12 SUBDIVISION D (4 OF 5) DATE 4/8/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

5T All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)
See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: Charles E. Hodman DATE: 4/29/90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 0 m: No Oil 1192 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

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

COMMENTS:

TAG COMMENTS:

TAG APPROVAL DATE: 4/26/90
ADEC JOHN BAUER
EXXON ANDY TGM
NOAA GARY PETRAE
USCG KENNETH KEANE

FOSC: DATE: 5-3-90

OG Poland

SEGMENT ST/ Kolo1/ST012

SUBDIVISION 0

DATE 4 / 8 90

CHECKLIST

☐ N Arrow
☐ Approx. Scale
☐ Seg/Sub Entry
☐ Oil Dist.
☐ Width
☐ Length
☐ % Cover
☐ Substrate Character
☐ Est. HWLA/VL
☐ SST
☐ Profile Location(s)
☐ Profile(s)
☐ PR Location(s)
☐ Photo Location(s)

LEGEND

1 Δ

PR - No Subsurface Oil

2 Δ

PR - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

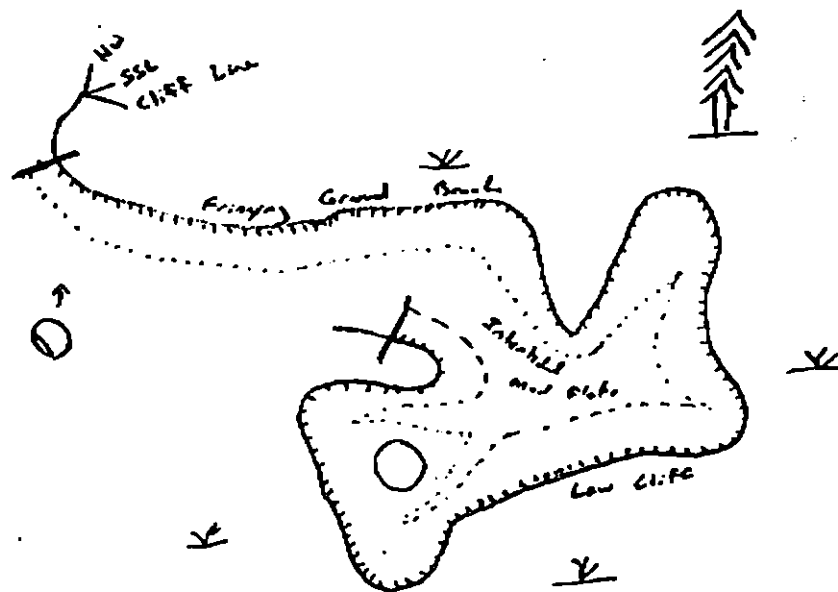
Splashed Distribution

Oil-d Vegetation

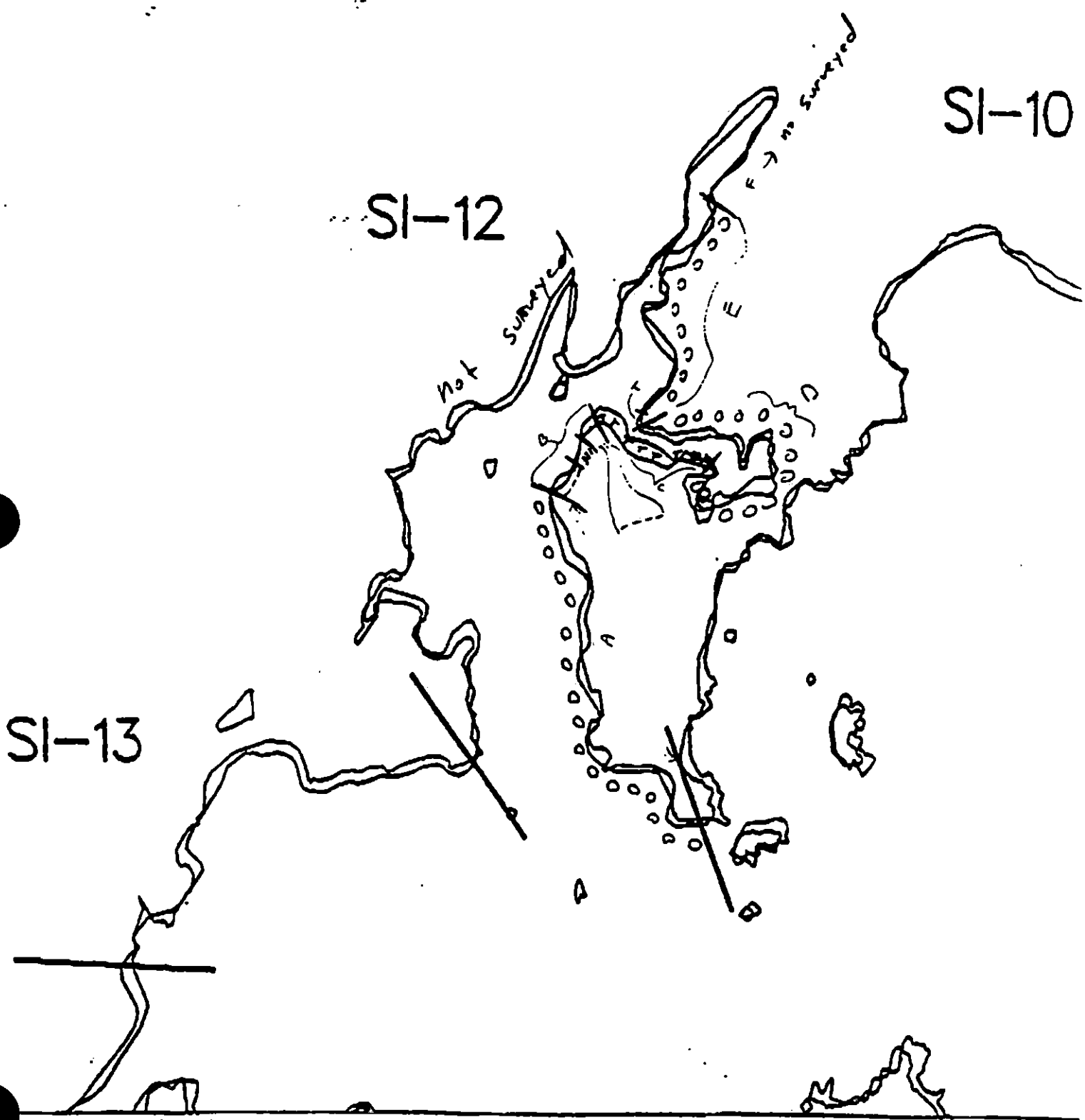
1 $\Rightarrow$

Photo location, direction,
and number

SKETCH MAP



Oil Character Length (m): AP 0 PO 0 CV 0 CT 0 ST 0 MS 0 PT 0 TB 0 FL 0 NO 1420



XXXX Wide
//// Medium
---- Narrow

SI-12

ADEC Segment Length: 9081m

Map Key: KOD-170

Name: Portland

REGION: KODIAK

SEGMENT: ST/K01-01-SI-12

SUBDIVISIONS: E (5 OF 7)

SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-12 SUBDIVISION E (5 OF 5) DATE 4/8/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

5T All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)
See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

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 37 m: No Oil 912 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: _____

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____
EXXON _____
NOAA _____
USCG _____

FOSC: _____ DATE: _____

KODIAK ECOLOGICAL CONSTRAINTS

- 1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
 1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
 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 Kotof Bay Hatchery release
 Pink salmon - late May, early June; Chum salmon - June; Sockeye salmon - early July.
- 1H Remote release site
- 1I Gill net area
- 1J Purse seine area
 Mainland, West side Kodiak, Shuyak & Moser/Olga Bay - 6/9 to 10/1.
 East side Kodiak, East side Afognak - 7/4 to 10/1.
- 1K Purse seine hook-off
- 1L Set net sites
 USFWS setnet uplands permit 5/15 to 9/15.
- For Codes 1C through 1L contact ADF&G for specific dates, locations and constraints.
- 2M Herring spawning (4/15 to 6/30)
 Restrict boat traffic to essential minimum. Avoid damage to uncoiled intertidal and subtidal algae and seagrass.
 Contact ADF&G for specific dates and locations.
- 3N, 3P Harbor seal and sea lion pupping (5/10 to 6/30)
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 3O, 3Q Harbor seal and sea lion molting (8/15 to 9/15)
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 5R Seabird colony (5/1 to 8/31)
 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 9/15)
 Restrict air traffic to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates.
- 6U Recreation: Tent sites (6/1 to 9/15)
- 6V Anchorages (6/1 to 9/15)
- 6W Forest Service cabins (6/1 to 9/15)
- 6X Lodge (6/1 to 9/15)
- 6Y Special use destination
- 7Z Subsistence area: Salmon harvesting (6/1 to 9/30)
- 7HH Finfish harvesting
- 7II Deer harvesting (8/1 to 1/7)
- 7JJ Invertebrate harvesting
- 7KK Bear harvesting (4/1 to 5/15 and 10/25 to 11/30)
- For Codes 7Z through 7JJ contact ADF&G and Chenega Corporation for specific dates, locations, and constraints.

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / K0101/ST012 SUBDIVISION: E DATE 4-8-90

NOAA
USCG

NAME John Naughton SIGNATURE John J. Naughton

☒ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

COMMENTS

No oil observed. This is the second back bay area of this segment but this one has a stream flowing into it.

ADEC

NAME Scott Shelton SIGNATURE Scott Shelton

☒ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

COMMENTS

NO oil observed. 875 meters walked. Random pits NO oil observed. Low energy beach.

LAND MANAGER

NAME Nike Goodwin SIGNATURE Michael Goodwin

☒ NO TREATMENT RECOMMENDED

☐ TREATMENT SUGGESTED

COMMENTS

NO oil observed in this subdivision.

SHORELINE OILING SUMMARY

REVISION NO. 05/28/88

OG Penland 4800 Neughton SEGMENT ST/ 150101/ST012
 BIO Spight LAND REP Gooding/ADNR SUBDIVISION E
 EXXON Byers ADEC Shelton TIME 2:46 to 11:04
 TEAM NO.: 19 TIDE LEVEL: 0.5 ft to 1.5 ft DATE 4/9/90
 EST. SUBDIVISION LENGTH: 875 m ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: S to N
 SURFACE SEDIMENTS: R 12 % B 10 % C 70 % P 20 % G 20 % S 10 % M 0 % V 0 %
 SLOPE: Long 70 % Hang 15 % Vert 15 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 30 m NO 875 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	R	B	C	P	SW	U	M	L	SW	U	M	L	SW	U	M	L
ASPHALT PAVEMENT																
POOLED																
COVER																
COAT																
STAIN																
MOUSSE																
PATTIES																
TARBALLS																
FILM																
NO OIL													X	X	X	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			
Vegetation			
Trash			
Debris			

DEBRIS COLLECTED
☐ YES ☒ NOTYPE —#BAGS 0

Photographs:

Roll No. —Frames —

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CH)	BELOW		OIL / FILM COLOR								PIT ZONE	A N A	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UO	UC	SW	U	M	L	SW	U	M	L			
1	30					X	.								X					Gravel
2	30					X	.								X					"
3	30					X	.								X					"
4	30					X	.								X					"
5	30					X	.								X					"
6	30					X	.								X					"

COMMENTS

No oil observed in subdivision E, six major pits dug and
 a series of smaller random pits dug.

OG Pen

SKETCH MAP

SEGMENT ST/ K0101 / SE 012

SUBDIVISION E

DATE 4 / 8 90

CHECKLIST

- ☒ N Arrow
- ☒ Approx. Scale
- ☒ Seg/Sub Entry
- ☒ Oil Dist.
- ☒ Width
- ☒ Length
- ☒ % Cover
- ☒ Substrate Character
- ☒ Ext. HML/LWL
- ☒ SSI
- ☒ Profile Location(s)
- ☒ Photo Location(s)
- ☒ Photo Location(s)

LEGEND

1 Δ

PU - No Subsurface Oil

2 Δ

PS - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

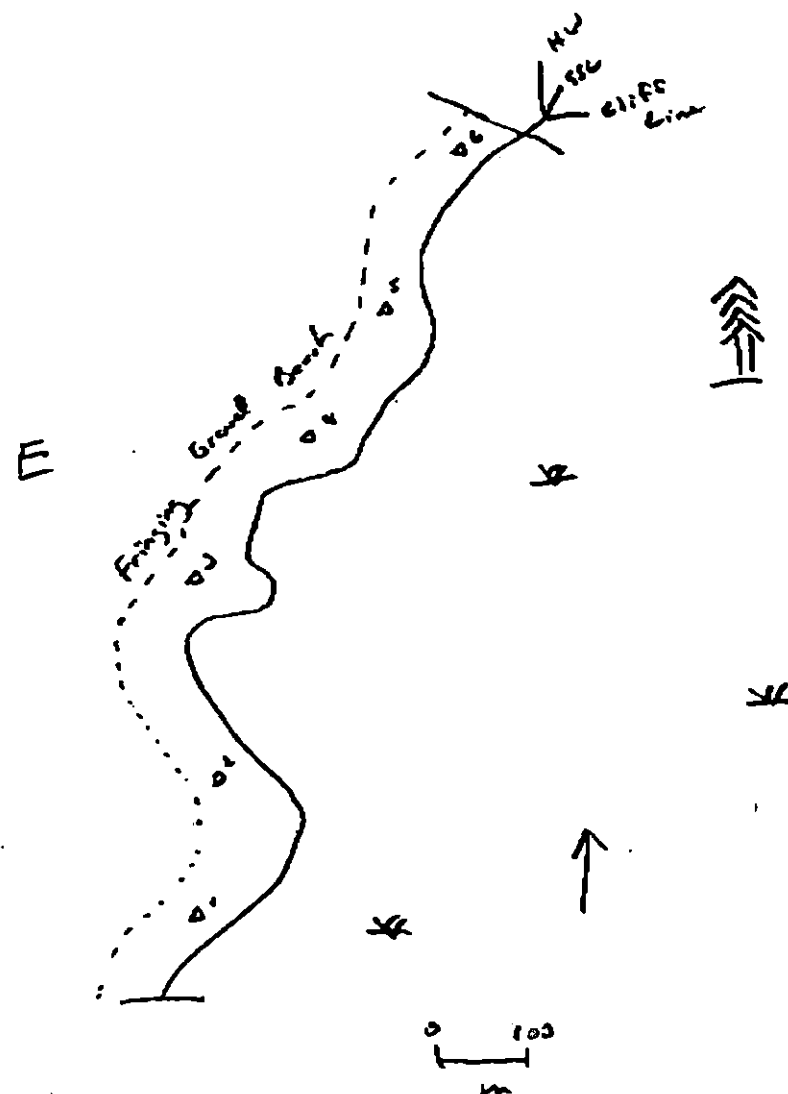
CT/S

Splashed Distribution

Oiled Vegetation

1 ➔

Photo location, direction,
and number



Oil Character Length (m): AP 0 PO 0 CV 0 CT 0 ST 0 MS 0 PT 0 TB 0 FL 0 NO 875

REVISION 00000000

SHORELINE ECOLOGICAL SUMMARY

REVISION: 0

Segment ST / ST-12 Subdivision E Date (mo / day / yr) 4 / 8 / 90

Time (24 hr) 11:09 Biologist GPI6HT

(A) Substrate type and % of segments:
(1) Bedrock 10 (2) Boulder 10 (3) Cobble 30 (4) Pebble 20 (5) Sand 20 (6) Silt 10

(B) Overall % cover of biota (% of segment): Dense 15 Moderate 30 Low 55

(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	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESE

MYTILUS

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

NOT PRESE

GASTROPODS

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

NOT PRESE

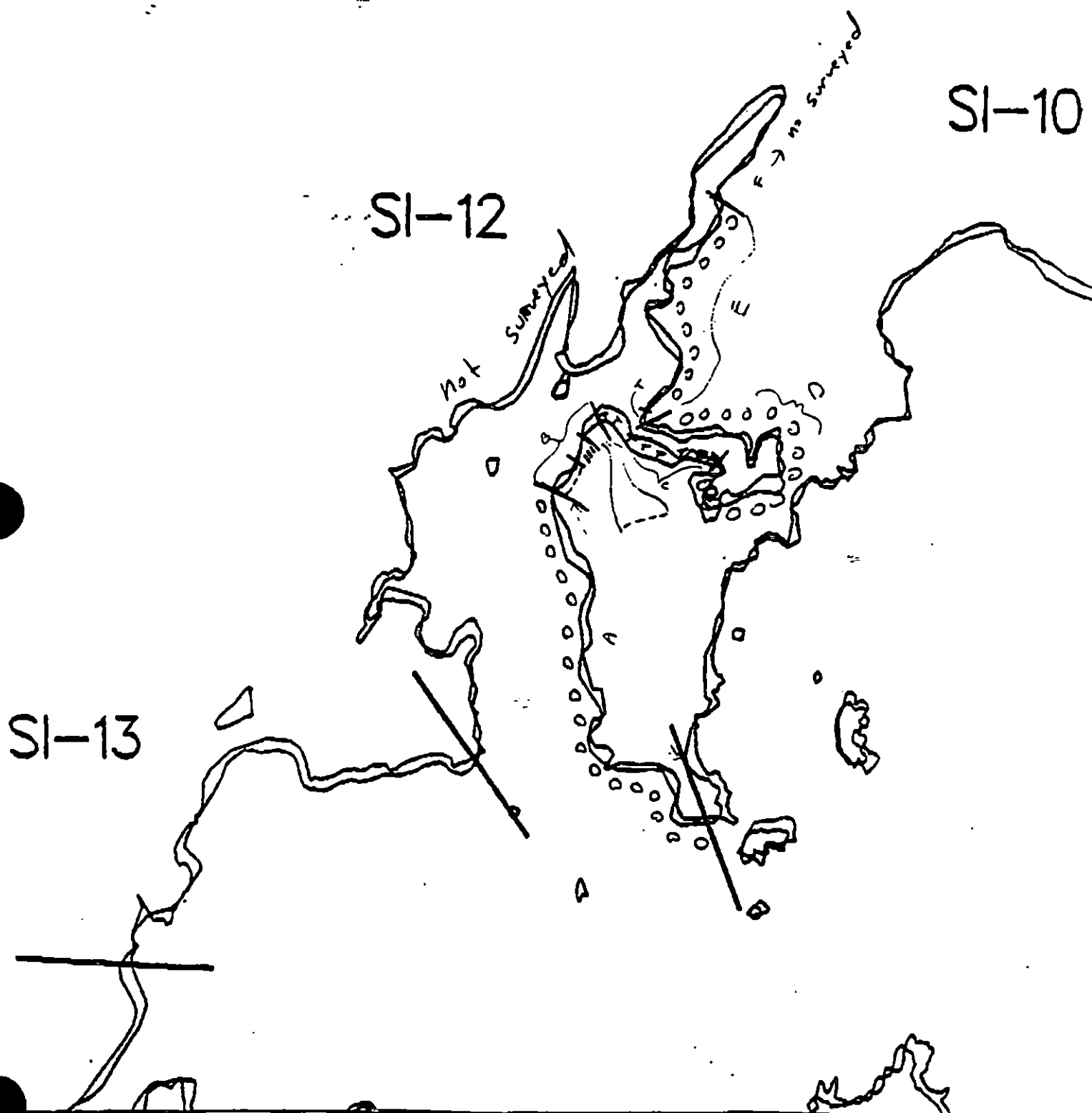
FUCUS

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

NOT PRESE

Wildlife Observations/ General Comments:

Ecological Considerations:



XXXX Wide
 /// Medium
 --- Narrow

SI-12

ADEC Segment Length: 9081m

Map Key: KOD-170

Name: Portland

SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-12 SUBDIVISION E (5 OF 5) DATE 4/8/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

5T All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)
See attached Ecological Constraint sheet for specific constraints and
contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: Charles E. Brown DATE: 4/28/90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 37 m: No Oil 912 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: _____

TAG COMMENTS: _____

TAG APPROVAL DATE: 4/26/90
 ADEC JOHN BAKER
 EXXON ANNE TATE
 NOAA GARY PETRO
 USCG KENNETH KEANE

FOSC: _____ DATE: 5-9-90

OG Pent

SKETCH MAP

SEGMENT ST/ K0101 / SL 012

SUBDIVISION E

DATE 4 / 8 90

CHECKLIST

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

LEGEND

1 Δ

Pile - No Subsurface Oil

2 Δ

Pile - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

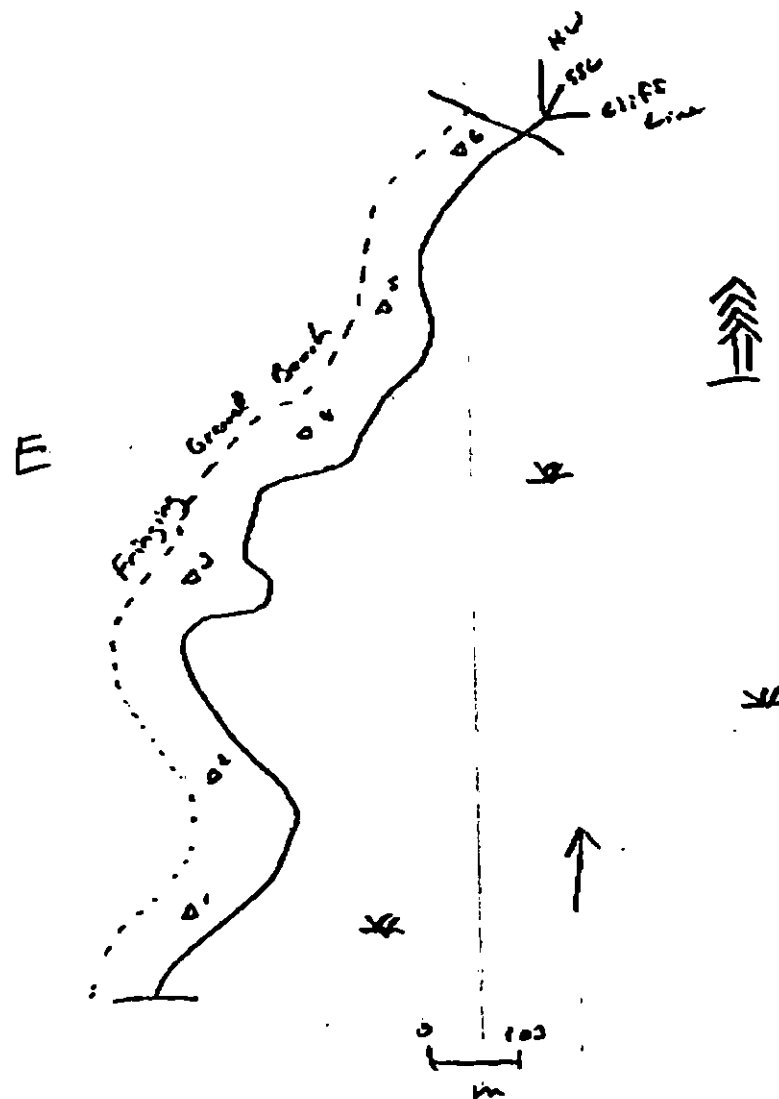
CT/S

Splashed Distribution

Oiled Vegetation

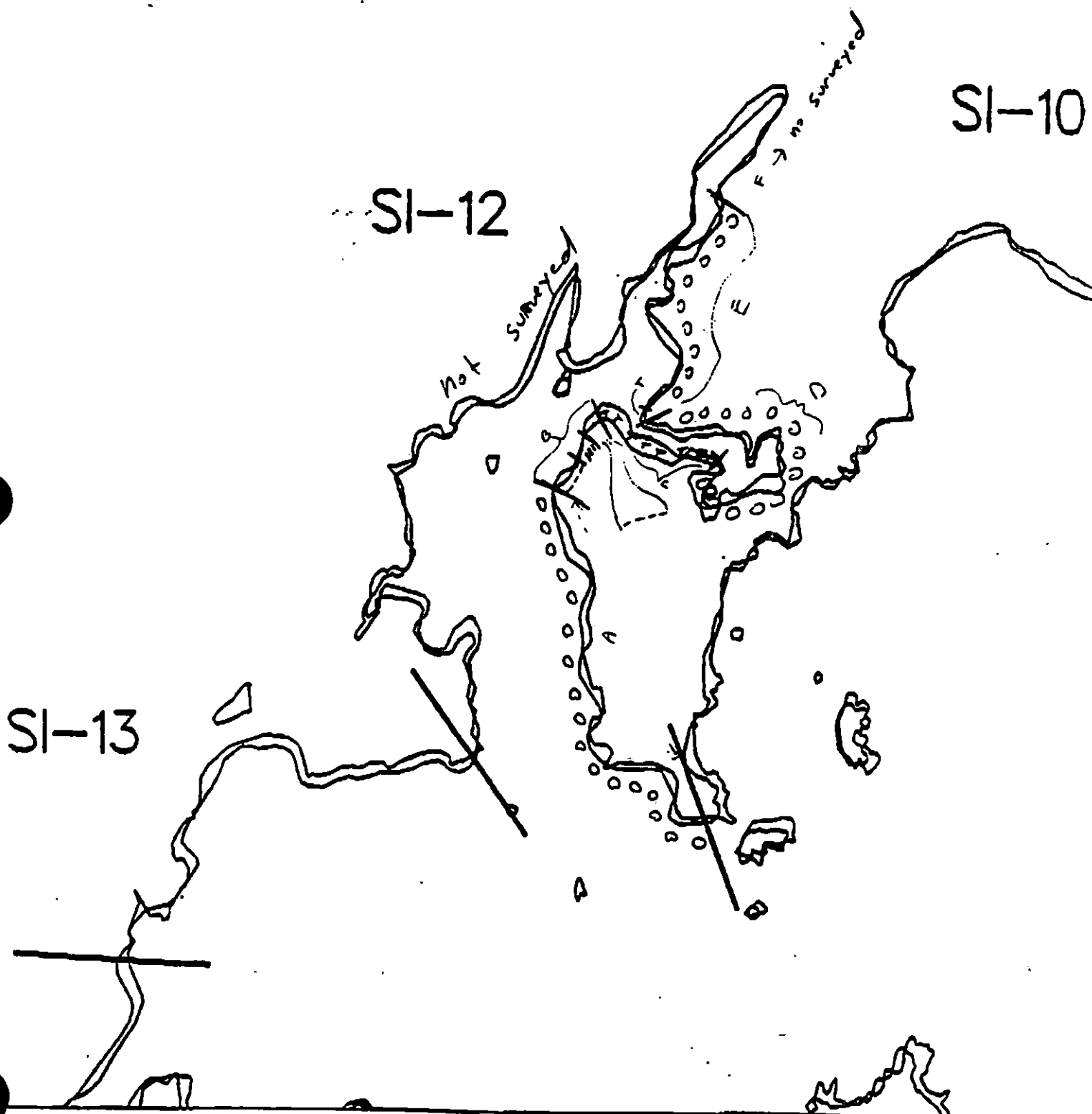
1 $\Rightarrow$

Photo location, direction,
and number



Oil Character Length (m): AP 0 PO 0 CV 0 CT 0 ST 0 MS 0 PT 0 TB 0 FL 0 NO 875

REVISION 02/04/90



XXXX Wide

//// Medium

--- Narrow

SI-12

ADEC Segment Length: 9081m

Map Key: KOD-170

Name: Portland

REGION: KODIAK

SEGMENT: ST/K01-01-SI-012

SUBDIVISIONS: F (6 OF 7)

SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-012 SUBDIVISION F (1 OF 7) DATE 5/26/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

5T-2 All Bald Eagle nests (3/1 to 6/1)

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

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

ARCHAEOLOGICAL CONSTRAINTS:

If cultural resources are uncovered during shoreline treatment, stop work in the vicinity, mark the location of the find and contact Exxon's Cultural Resource Program immediately (564-3274 (Anchorage) or 229-1508 (24 hrs.)).

SHPO SIGNATURE: _____ DATE: _____

OILING CATEGORIZATION:

Wide 0 m: Medium 27 m: Narrow 0 m: V.Light 911 m: No Oil 1153 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: Manual removal of mousse splashes as indicated.

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____
EXXON _____
NOAA _____
USCG _____

FOSC: _____ DATE: _____

KODIAK ECOLOGICAL CONSTRAINTS

- 1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
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, 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 prior to treatment for consultation and/or permit application.
AGENCY CONTACT PERSON: ADF&G Ken Middleton 267-2299
- 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, 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 Kotol Bay Hatchery release
Pink salmon - late May, early June; Chum salmon - June; Sockeye salmon - early July.
- 1H Remote release site
No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, 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 for confirmation and authorization.
AGENCY CONTACT PERSON: ADF&G Larry Peltz 424-3214
- 1I Gill net area
1J Purse seine area
Mainland, West side Kodiak, Shuyak & Moser/Oiga Bay (6/9 to 10/1)
East side Kodiak, East side Afognak (7/4 to 10/1)
1K Purse seine hook-off
1L Set net sites
Contact ADF&G for confirmation - dates and locations may vary. 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 Larry Nicholson 424-4791
- 2M Herring spawning (4/15 to 6/30)
Contact ADF&G for confirmation - dates and locations may vary. Restrict boat traffic to essential minimum. Avoid damage to unopened intertidal and subtidal algae and seagrass. If plans for treatment include methods such as hot water wash or Inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization.
AGENCY CONTACT PERSON: ADF&G Larry Nicholson 486-4781
- Harbor seal and sea lion pupping (5/10 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. No application of Inipol within two weeks of arrival dates (work window at these sites is limited to 7/2 to 7/31).
Contact ADF&G and USFWS prior to treatment for confirmation.
AGENCY CONTACT PERSON: US National Marine Fisheries Service Steve Zimmerman 586-7235
ADF&G Don Calkins 267-2403
- 5R Seabird colony (5/1 to 9/1)
Restrict air and boat traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance from colony. Contact USFWS prior to treatment.
AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
- 5S Shorebird/waterfowl concentration (4/1 to 5/15)
Restrict all activity to essential minimum, especially air traffic. Contact USFWS and ADF&G for confirmation.
AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
ADF&G Tom Roth 267-2206
- 5T All Bald Eagle nests (3/1 to 6/1)
Active Bald Eagle nests (3/1 to 9/1)
Restrict air traffic and all disturbance to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates.
AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
- 6U Recreation: Tent sites (8/1 to 9/15)
6V Anchorages (8/1 to 9/15)
6W Forest Service cabins (8/1 to 9/15)
6X Lodge (8/1 to 9/15)
6Y Special use destination
- 7Z Subsistence area: Salmon harvesting (6/1 to 9/30)
Finfish harvesting
Deer harvesting (8/1 to 1/7)
Invertebrate harvesting
Bear harvesting (4/1 to 5/15 and 10/25 to 11/30)
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

SEGMENT ST / K101 SE. 12 SUBDIVISION: F DATE 5.26.90

USCG

NAME STAN SHIELDS SIGNATURE Stan Shields

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

IN THE WESTERN PART OF SUBDIVISION THERE IS AN AREA WITH SMALL MOUSSE PATTIES THAT WOULD BE EASY TO PICK UP OR OF SAND, SM ANGULAR ROCK AND GRAVEL. 2ND AREA OF MOUSSE IS IN EASTERN PART OF SUBDIVISION IN INTERSTICES OF BULDER AND COBBLE.

ADEC

NAME Francine T. Bernis SIGNATURE Francine T. Bernis

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

RECOMMEND MANUAL PICK-UP OF MOUSSE PATTIES + MOUSSE CAUGHT BETWEEN BOULDERS/COBBLES: SMALL CREW (2-4 people) USING TROWELS + SHOVELS.

2 main areas in this subdivision:

- 1) small estuary has all patties in UITE near the head of baylet
- 2) area 3m x 20m with patchy mousse among boulders/cobbles

LAND MANAGER

NAME Ray Burger ADNR SIGNATURE Ray Burger

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

- Area being considered for addition to Shuyak Island State Park
- Well used campsite near pit #2 - pickup mousse balls here + along next 100m @ MHW (going west)
- Manual pickup of mousse recommended from area of pit #3 + near rock island

Attachment 2
U.S. Fish and Wildlife Service Shoreline Cleanup Disclaimer

This comment sheet is based on current observations and is solely for the purpose of planning and scheduling of 1990 response treatment actions. It in no way implies that the State or Federal government will not in the future determine that further restoration or other treatment, or compensation is warranted regarding this area, or that the area is considered by the Federal or State government to be adequately 'clean' or 'restored' for the purpose of any claim which the State or Federal government has brought or may bring against Exxon, Incorporated or any other potentially responsible party.

SHORELINE OILING SUMMARY

REVISION NO. 04/12/90

Mike Foget USCG Stan Shields SEGMENT ST/ 100101 - 520012
 Heather Davis LAND REP Ray Burger DNR SUBDIVISION F (6 OF 7)
 ADEC Fran Bennis TIME 13:30 to 15:00
 TIDE LEVEL -1 - +4.0 DATE 5/26/90
 ST. SUBDIVISION LENGTH: 2085 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 PLANDS DESCRIPTION: ☐ Grass ☒ Forest ☒ Rock 1302m Rocky backshore w/ forest
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: N to S
 SURFACE SEDIMENTS: R 10 % B 30 % C 30 % P 10 % G 10 % S 5 % M 5 % V 0 %
 COPE: Lang 30 % Hang 70 % Vert 0 % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 20 m N 0 m VL 923 m NO 1142 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	10	15	10	5	10	15	10	5	10	15	10	5	SU	U	M	U
ASPHALT PAVEMENT																
COOLED																
OVER																
BOAT			X	X		X							X			
STAIN				X		X							X			
MOUSSE				X									X	X		
PATTIES				X									X	X		
TARBALLS																
FILM																
CO OIL														X	X	

PAVEMENT H F S — sq. m by — cm

PATTIES / TARBALLS 10 BAGS

NEAR SHORE SHEEN? NO BR (RW) SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris	X		

DID YOU COLLECT DEBRIS?

YES ☐ NO ☒

TYPE 0

#BAGS 0

Photographs:

Roll No. ST-20-13

Frames 2,3,4

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)	↓	SURFACE - SUBSURFACE SEDIMENTS
		OF	OR	OL	OF	NO		VO	UC	10	15	10	5	10	15	10	5	SU	U	M	U						
1	20					X	.		X									X									G, S, C
2	25					X	.		X									X									P, G
3	20	X					0.1		X					X				X	X								G, M, G
							.																				
							.																				
							.																				

COMMENTS Shore zone consists - mostly of High angle B/C beaches with a couple of small Low angle bays w/ G/S/M. The Northern end of the Subdivision has a 900m x 1m CT/S on B/C in the HETZ with some localized mousse. In a finger bay in the south end there is a 1m x 20m M/S/S in the HETZ which is hard to locate because the mousse patties were covered w/ silt. reviewed RAT DATE 31 MAY 90

REVISION 04, 1997

510012

[illegible]

In the Northern end of the subdivision is a 3in X 20m CT/P w/ localized mousse in the HITZ on B/C.

REVIEWED BAT DATE 31 May 90

3 Mike Forest

EMENT ST/ K - S1012

IBOMISION F

ITE 5, 26 90

HECKLIST

- N Arrow
- Approx. Scale
- Step/Sub Entry
- On Dist.
- Width
- Length
- % Cover
- Substrate Character
- Est. HMLA/WL
- SSL
- Profile Location(s)
- Profile(s)
- PI Location(s)
- Photo Location(s)

EGEND

1 Δ No Subsurface Cl

2 Δ

Subsurface Cl

CT/C

Substrate Distribution

CT/B

Substrate Distribution

CT/P

Substrate Distribution

CT/S

Substrate Distribution

CT/L

Substrate Distribution

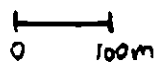
CT/V

Substrate Distribution, direction, d number

SKETCH MAP



Scale



Legend

--- CT/S

/// - 2m steep rocky backshore

↑ - Forest

uu - water

3m x 20m CTIP w/ mouse on Boulder cobble

Rock Island

1m x 900m CT/S in HITZ on Boulder cobble w/ some localized mouse

MANUALLY Remove MOUSSE

Δ2, ST/S 2m x 3m supra ITZ w/ some mouse balls

0.1m x 0.1m mouse ball w/ some rainbow sheen next to it located on some tidal water

Photo 2, 3 1m x 20m MS/S in HITZ on P/M mouse covered with silt, hard to locate

Character Length (m): AP 0 PO 0 CV 0 CT 920 ST 3 MS 20 PT 5 TB 0 FL 0 NO 1142

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22/90

Segment ST/KOI-01 Subdivision SI 012 F Date (mo/day/yr) 5/26/90Time (24 hr) 13:30 Biologist H. Davis

- (A) Substrate type and % of segments:
 (1) Bedrock 10 (2) Boulder 30 (3) Cobble 30 (4) Pebble 15 (5) Sand 5 (6) Silt 10
- (B) Overall % cover of biota (% of segment): Dense 20% Moderate 40% Low 40% (30%)
- (C) Density, substrate preference (by number from A, above), & vertical zonation of major taxa: (upper-U; mid-M; low tidal-L); juveniles/adults (X), new settlement (3)

Photographs:
Roll No. ST-20-13Frames 2, 3, 4

BARNACLES Continuous Dense-Moderate, Recent Cyprid settlement

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

NOT PRESENT
5, 6

MYTILUS Beds-Sparse, small dense patches on boulders.

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

NOT PRESENT
5, 6

GASTROPODS Littorina Dense-sparse, Nucella-sparse, limpets Mod-Sparse

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

NOT PRESENT
5, 6

FUCUS Dense areas, Patchy along segment.

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

NOT PRESENT
5, 6

Wildlife Observations/General Comments: UT2-Barnacles, limpets, Littorina, small patches of Mytilus, Porphyra, Endocladia, and Fucus. MT2-Barnacles, limpets, Littorina, sparse beds of Mytilus, Fucus, Gelidium, Ulva, Green filamentous, Diatom mats, Paganus, Sargassum, Protococcus, Macoma and Clinocardium (shells). LT2-Fucus, Filamentous algae, Scytosiphon, Ulva, Sargassum, Protococcus, Prickly pears, Paganus, virens and Phoronids. Birds: Adult Eagle, Raven, Pintail?, White-winged Scoters, Wandering Tattler, sparrow, thrush and Glaucous-winged gulls.

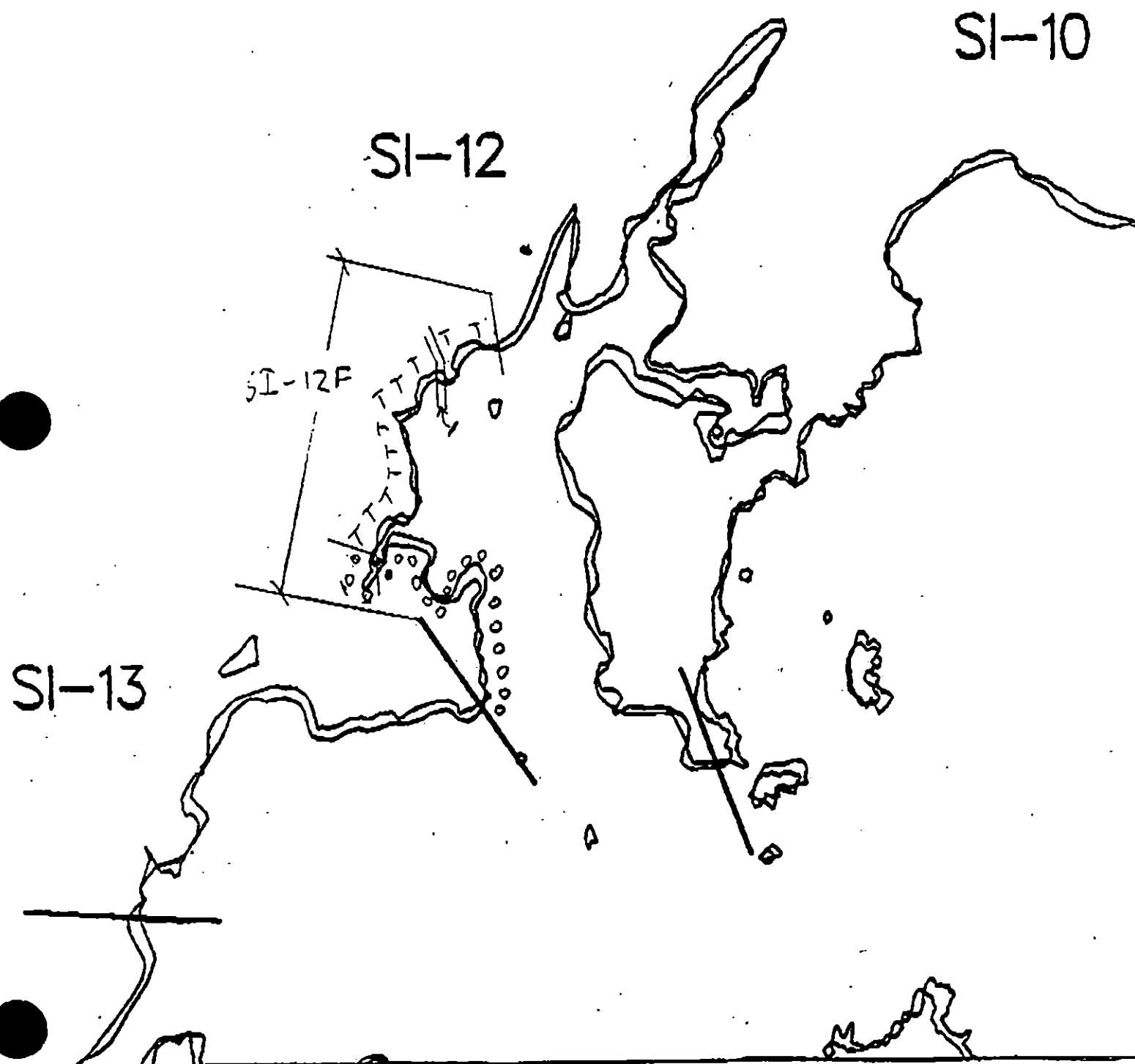
Ecological Considerations: ST-2, Two Eagle nests. No Eagle nests were seen on this subdivision of SI 012. None of the streams showed evidence of being anadromous.



PWS / KENAI / KODIAK / AK. PENINSULA

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840.

1290
115
120
230



SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-012 SUBDIVISION F (1/OF 7) DATE 5/26/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

5T-2 All Bald Eagle nests (3/1 to 6/1)

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

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

ARCHAEOLOGICAL CONSTRAINTS:

If cultural resources are uncovered during shoreline treatment, stop work in the vicinity, mark the location of the find and contact Exxon's Cultural Resource Program immediately (564-3274 (Anchorage) or 229-1508 (24 hrs.)).

SHPO SIGNATURE: Charles E. Holmes DATE: June 19, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 27 m: Narrow 0 m: V. Light 911 m: No Oil 1153 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

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

COMMENTS: Manual removal of mousse splashes as indicated.

TAG COMMENTS:

TAG APPROVAL DATE: 6/16/90

ADEC Roy Mearns R Mearns

EXXON AMY TSA

NOAA Joseph Tallant

FOSC: My L

DATE: 6-27-90

like forest

VT ST/ Kolo

SIOW F

5, 26 80

LIST

1. Scale

2. Scale

3. Scale

4. Scale

5. Scale

6. Scale

7. Scale

8. Scale

9. Scale

10. Scale

11. Scale

12. Scale

13. Scale

14. Scale

15. Scale

16. Scale

17. Scale

18. Scale

19. Scale

20. Scale

21. Scale

22. Scale

23. Scale

24. Scale

25. Scale

26. Scale

27. Scale

28. Scale

29. Scale

30. Scale

31. Scale

32. Scale

33. Scale

34. Scale

35. Scale

36. Scale

37. Scale

38. Scale

39. Scale

40. Scale

012

Scale

0 100m

Legend

CT/S

/// - 2m steep rocky backshore

↑ - forest

uu - water

3m x 20m CT/P w/
mouse on boulder/cobble

Rock Island

1m x 900m CT/S in HITZ
on boulder/cobble w/ some
localized mouse

MANUALLY
Remove
Mouse

02, ST/S 2m x 3m supraITZ
w/ some mouse balls

2.1m x 0.1m mouse ball
w/ some rainbow sheep
next to it located
on some tidal water

Photo 2, 3 1m x 20m MS/S
in HITZ on P/M mouse
covered with silt, hard to
locate

SKETCH

AP 0 PO 0 CV 0 CT 920 ST 3 MS 20 FT 5 TB 0 FL 0 NO 1142

SI-10

SI-12

SI-12F

SI-13

XXXX Wide

SI-12F

Map Key: K00-170

ADDENDUM: SUBDIVISION CONSTRAINTS

SEGMENT K01-01-SI-12 SUBDIVISION F (6 of 7)

| WORK WINDOW | |
|---------------|------|
| Manual Pickup | OPEN |

ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

| | | |
|----|-----------------|---|
| 5T | Bald Eagle Nest | NO CONSTRAINT. USFWS 4/9/90 map indicates no active nest within 400m of Subdivision F work sites. |
|----|-----------------|---|

OTHER ECOLOGICAL CONSIDERATIONS

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

FOSC

[Signature]

Date

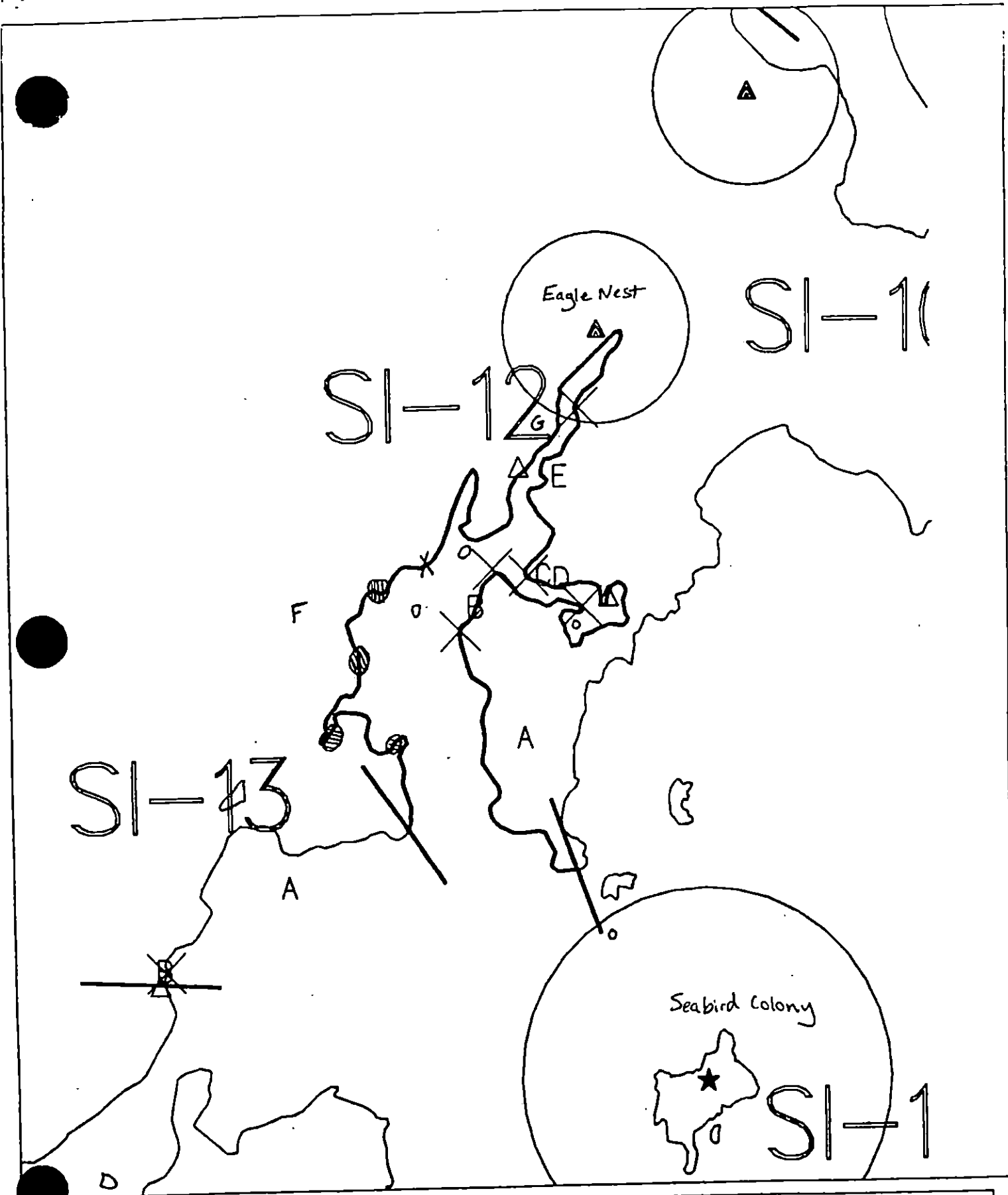
6/29/90

Prepared by

R. R. Chittre

Date

6-28-90



Exxon Company, USA
Map K1-1 K1D-SI-12



ECOLOGY MAP
SEGMENT K1-1 SI-12
SUBDIVISION F (6 of 7)
METERS

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

SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-012 SUBDIVISION F (1/OF 7) DATE 5/26/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

5T-2 All Bald Eagle nests (3/1 to 6/1)

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

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

ARCHAEOLOGICAL CONSTRAINTS:

If cultural resources are uncovered during shoreline treatment, stop work in the vicinity, mark the location of the find and contact Exxon's Cultural Resource Program immediately (564-3274 (Anchorage) or 229-1508 (24 hrs.)).

NO SIGNATURE: Charles J. Holmes DATE: June 19, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 27 m: Narrow 0 m: V.Light 911 m: No Oil 1153 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

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

COMMENTS: Manual removal of mousse splashes as indicated.

TAG COMMENTS:

TAG APPROVAL DATE: 6/16/90
ADEC Ram Mowar R Mowar
EXXON Andy Tsal FOSC: My L DATE: 6-27-90

REGION: KODIAK

SEGMENT: ST/K01-01-SI-012

SUBDIVISIONS: G (7 OF 7)

SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-012 SUBDIVISION G (7 OF 7) DATE 6/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

5T-2 All Bald Eagle nests (3/1 to 6/1)

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

4GG State Marine Park Alaska State Parks

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

ARCHAEOLOGICAL CONSTRAINTS:

If cultural resources are uncovered during shoreline treatment, stop work in the vicinity, mark the location of the find and contact Exxon's Cultural Resource Program immediately (564-3274 (Anchorage) or 229-1508 (24 hrs.)).

SHPO SIGNATURE: _____ DATE: _____

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 96 m: V.Light 109 m: No Oil 2038 m
Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

☐ 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: Recommended treatment is manual removal of mousse and the bag
of oiled material (mousse) as indicated on attached sketch map.

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____

EXXON _____

NOAA _____

USCG _____

FOSC: _____ DATE: _____

KODIAK ECOLOGICAL CONSTRAINTS

- 1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
 1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
 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, 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 prior to treatment for consultation and/or permit application.
 AGENCY CONTACT PERSON: ADF&G Ken Middleton 267-2299
- 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, 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 Kotol Bay Hatchery release
 Pink salmon - late May, early June; Chum salmon - June; Sockeye salmon - early July.
- 1H Remote release site
 No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, 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 for confirmation and authorization.
 AGENCY CONTACT PERSON: ADF&G Larry Peltz 424-3214
- 1I Gill net area
 1J Purse seine area
 Mainland, West side Kodiak, Shuyak & Moser/Olga Bay (6/9 to 10/1)
 East side Kodiak, East side Afognak (7/4 to 10/1)
 1K Purse seine hook-off
 1L Set net sites
 Contact ADF&G for confirmation - dates and locations may vary. 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 Larry Nicholson 424-4791
- 2M Herring spawning (4/15 to 6/30)
 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 Larry Nicholson 486-4791
- Harbor seal and sea lion pupping (5/10 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. No application of Inipol within two weeks of arrival dates (work window at these sites is limited to 7/2 to 7/31).
 Contact ADF&G and USFWS prior to treatment for confirmation.
 AGENCY CONTACT PERSON: US National Marine Fisheries Service Steve Zimmerman 586-7235
 ADF&G Don Calkins 267-2403
- 5R Seabird colony (5/1 to 9/1)
 Restrict air and boat traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance from colony. Contact USFWS prior to treatment.
 AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
- 5S Shorebird/waterfowl concentration (4/1 to 5/15)
 Restrict all activity to essential minimum, especially air traffic. Contact USFWS and ADF&G for confirmation.
 AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
 ADF&G Tom Roth 267-2206
- 5T All Bald Eagle nests (3/1 to 6/1)
 Active Bald Eagle nests (3/1 to 9/1)
 Restrict air traffic and all disturbance to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates.
 AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
- 6U Recreation: Tent sites (6/1 to 9/15)
 6V Anchorages (6/1 to 9/15)
 6W Forest Service cabins (6/1 to 9/15)
 6X Lodge (6/1 to 9/15)
 6Y Special use destination
- 7Z Subsistence area: Salmon harvesting (6/1 to 9/30)
 Finfish harvesting
 Deer harvesting (8/1 to 1/7)
 Invertebrate harvesting
 Bear harvesting (4/1 to 5/15 and 10/25 to 11/30)
 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

SEGMENT ST K1-01 SUBDIVISION: SI-12G DATE 6/1/90

NOAA

USCG

NAME

Tom Callahan

SIGNATURE

Tom Callahan

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

Very light mousse and patties, < 10% in only a few locations.
All other areas clean of oil.

A black garbage bag containing mousse and oiled sediment should be removed.

ADEC

NAME

Terry Ellsworth

SIGNATURE

Terry Ellsworth

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

Oil is found primarily as mousse patties with entrained sediment in the southern portion of the subdivision (see OG sketch map).
Clean up efforts should concentrate on the east side of the small southern bight. Also, the black plastic bag containing mousse/sediment located at the head of this bight should be picked up.

LAND MANAGER

NAME

Mike Gordin

SIGNATURE

Michael Gordin

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

This subdivision contains state lands and uplands that may some day be included into the Stump Island State Park expansion. I agree the oiled bag of mousse/sediment must be removed and minor mousse patties in same general area be removed also by Manual removal techniques.

SHORELINE OILING SUMMARY

REVISION NO. 24.12.90

OG J. Springer ~~used~~ NOAA T. Callahan SEGMENT STI K-101/SI 12
 BIO D. Lohse LAND REP M. Goodwin SUBDIVISION G (7 OF 7)
 ON A.F. & G. Barnhart ADEC T. Ellsworth TIME 15:00 to 16:30
 M NO. 19 TIDE LEVEL +2 TO +1 DATE 06/01/90
 EST. SUBDIVISION LENGTH: 2400 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☒ Helo WORKING DIRECTION: NE to SW
 SURFACE SEDIMENTS: R 5 % B 5 % C 20 % P 25 % G 15 % S 15 % M 10 % V 5 %
 SLOPE: Long 100 % Hang % Vert % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W m M m N 40 m VL 130 m NO 2230 m

SURFACE OIL

| CHARACTER | DISTRIBUTION | | | | OIL / FILM COLOR | | | | | IMPACTED ZONES | | | |
|------------------|--------------|----|----|-----|------------------|----------|----|----------|----|----------------|---|---|---|
| | /C | /B | /P | /S | SO
OR | DO
RW | GY | OR
TL | LR | SU | U | M | L |
| ASPHALT PAVEMENT | | | | | | | | | | | | | |
| POOLED | | | | | | | | | | | | | |
| COVER | | | | | | | | | | | | | |
| COAT | | | | | | | | | | | | | |
| STAIN | | | | | | | | | | | | | |
| MOUSSE | | | X | 1/4 | | + | | X | VL | | X | V | |
| BATTIES | | | | | | | | | | | | | |
| TARBALLS | | | | | | | | | | | | | |
| FILM | | | | | | | | | | | | | |
| NO OIL | | | | | | | | | | X | | X | X |

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

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

DID YOU COLLECT DEBRIS?

YES ☐ NO ☒TYPE #BAGS

Photographs:

Roll No. Frames

SUBSURFACE OIL

| PIT NO. | PIT DEPTH (cm) | SUBSURFACE OIL CHARACTER | | | | | OILED INTERVAL (CM) | BELOW | | OIL / FILM COLOR | | | | | | | | PIT ZONE | | | | A
N
A | SHEEN (Y/N) | ▼ | SURFACE - SUBSURFACE SEDIMENTS |
|---------|----------------|--------------------------|----|----|----|----|---------------------|-------|----|------------------|----------|----------|----------|----|----|---|---|----------|--|--|--|-------------|-------------|---|--------------------------------|
| | | OP | OR | OL | OF | NO | | UO | UC | SO
BR | DO
RW | GY
SL | OR
TL | LR | SU | U | M | L | | | | | | | |
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COMMENTS No pits dug. Time limitations due to schedule and weather.

OG J. Spenger
SEGMENT ST/K-10/5I-12
SUBDIVISION G

DATE 06/01/90

CHECKLIST

☐ N Arrow
☐ Approx. Scale
☐ Seg/Sub Bndry
☐ Oil Dist.
☐ Width
☐ Length
☐ % Cover
☐ Substrate Character
☐ Est. HML/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

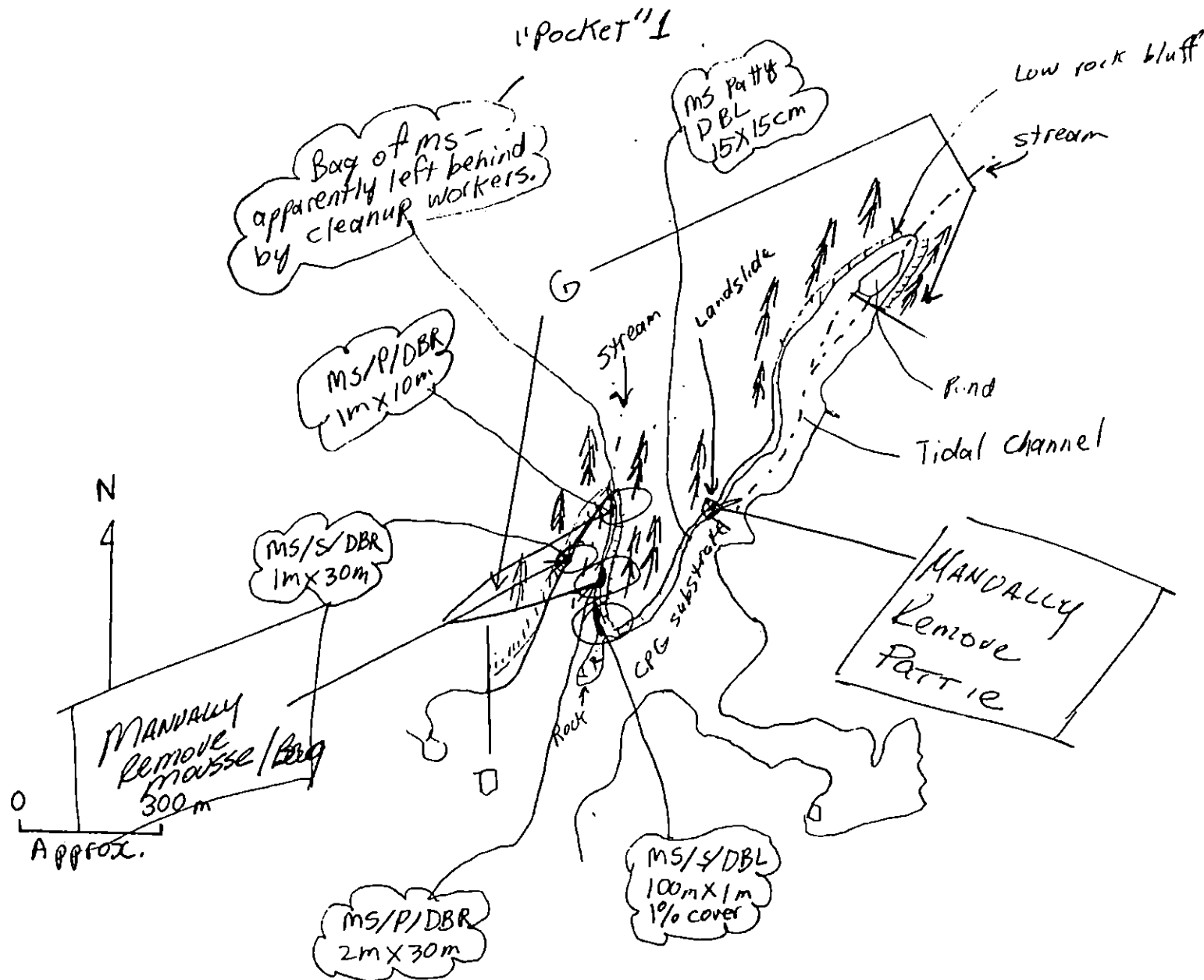
Splashed Distribution

Obd Vegetation

1 ➡

Photo location, direction,
and number

SKETCH MAP



Oil Character Length (m): AP _____ PO _____ CV _____ CT _____ ST _____ MS 170 PT _____ TB _____ FL _____ NO 2230

REVISION: 03/24/90

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03-22-90

Segment ST / K1-1 / SI-12 Subdivision G Date (mo / day / yr) 6-1-90Time (24 hr) 15:00 Biologist David Lohr

- (A) Substrate type and % of segments:
 (1) Bedrock 5 (2) Boulder 5 (3) Cobble 20 (4) Pebble 25 (5) Sand 30 (6) Silt 10
- (B) Overall % cover of biota (% of segment): Dense 15 Moderate 45 Low 40
- (C) Density, substrate preference (by number from A, above), & vertical zonation of major taxa: (upper-U; mid-M; low tidal-L); juveniles / adults (X), new settlement (3)

Photographs:
Roll No. ST-19-100Frames 25

BARNACLES

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

ASTROPODS

| Dense | | | Moderate | | | Sparse | | | Rare | | | |
|-------|----|----|----------|----|----|--------------|--------------|--------------|--------------|--------------|--------------|-------------|
| 1U | 1M | 1L | 1U | 1M | 1L | 1U | 1M | 1L | 1U | 1M | 1L | |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | NOT PRESENT |
| 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 | | | |
|-------|----|----|----------|----|----|--------|----|--------------|--------------|--------------|--------------|-------------|
| 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 | NOT PRESENT |
| 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:

See page 2

Ecological Considerations:

ST: no nests observed in this subdivision

Segment ST/K1-1/SI-12

Subdivision 6

6-1-90

Biologist: David Lohr

Wildlife Observations/General Comments

1. Present in low intertidal: Cladophora, Ulva, filamentous diatoms, Scytosiphon, Amphipleura, Pagurus, Odonthallia, Nuella
mid intertidal: Scytosiphon, Odonthallia, Gloropeltis, Nuella
2. Two Harlequin ducks and ~16 gulls seen in area
3. Segment consisted primarily of pebble beaches with occasional pockets of bedrock/boulder/cobble. The back of bay #1 (see ecology map) contained lots silt which was anoxic just below the surface
4. Lots of clam siphons were evident in silt in Bay #1.
5. One stream was found in subdivision (see ecology map). Not listed ~~on ADFG~~ anadromous on ADFG maps. Oil was present within ~25m of stream mouth
6. Algal cover on low intertidal pebbles (primarily Cladophora and filamentous diatoms with some Ulva and Scytosiphon) reached 80% in some areas.

Recruitment and Mortality, 6-1-90

Segment ST/KI-1/SI-12

Subdivision G

6-1-90

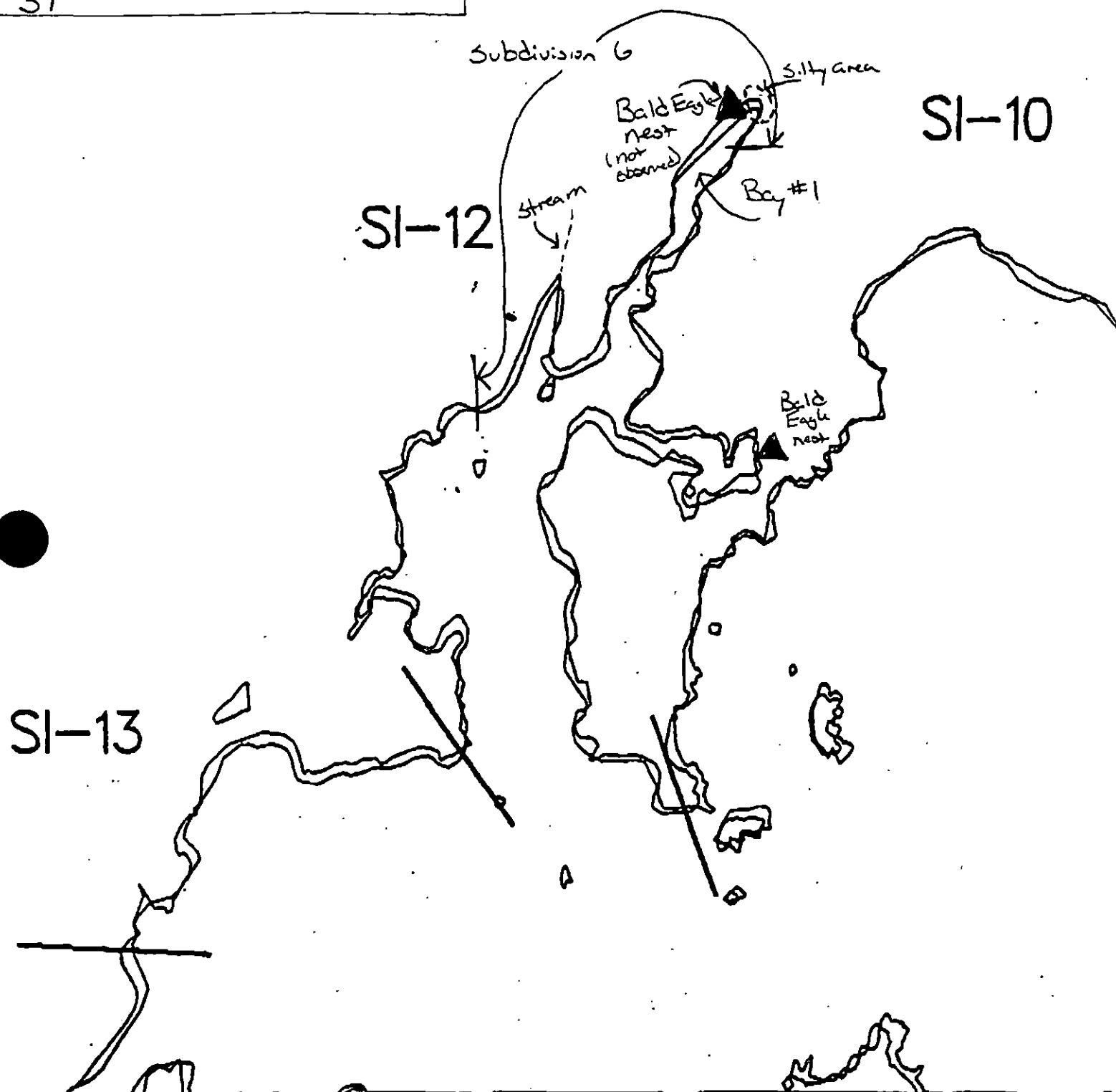
Biologist: David Lohse

1. Recruitment of barnacles was patchy
2. Mortality of barnacles was ~10% on mid-intertidal bedrock (1 site surveyed) and ~15% on high ~~intertidal~~ intertidal bedrock (1 site surveyed).
3. Mortality of mussels was ~10% in mid intertidal ~~public~~ (one site surveyed).

Ewlogy Map

Source Codes for Entire Segment

ST



SI-12-G

XXXX Wide

//// Medium

--- Narrow

TTTT Very Light

0000 No Data

ADEC Segment Length: 9081m

0 300 600 900

Map Key: KOD-170

Name: _____

Date: _____

Data Entered: _____

SI-10

SI-12

G

Narrow

Narrow

SI-13

XXXX Wide
//// Medium
--- Narrow
TTTT V - - -

Kø1ø1- SI-12-G
ADEC Segment Length: 9081m

Map Key: K00-170
Name: J. Springer
Date: 6/1/90



SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-012 SUBDIVISION G (7 OF 7) DATE 6/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

5T-2 All Bald Eagle nests (3/1 to 6/1)

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

4GG State Marine Park Alaska State Parks

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

ARCHAEOLOGICAL CONSTRAINTS:

If cultural resources are uncovered during shoreline treatment, stop work in the vicinity, mark the location of the find and contact Exxon's Cultural Resource Program immediately (564-3274 (Anchorage) or 229-1508 (24 hrs.)).

SHPO SIGNATURE: Charles H. Jones DATE: June 19, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 96 m: V.Light 109 m: No Oil 2038 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

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

COMMENTS: Recommended treatment is manual removal of mousse and the bag
of oiled material (mousse) as indicated on attached sketch map.

TAG COMMENTS:

TAG APPROVAL DATE: 6/16/90

ADEC Ray M. Meyer R. Meyer

EXXON ANDY TSAI

NOAA Theresa Talbot

FOSC: DATE: 6-27-90

J. Springer

SKETCH MAP

MENT ST/K-10/SI-12

DIVISION G

06/01/90

CHECKLIST

1 Arrow
approx. Scale
eg/Sub Bndry
X Dist
Width
Length
Cover
Substrate Character
at HWL/LWL
SL
Profile Location(s)
Profile(s)
Ht Location(s)
Holo Location(s)

SEND

1 Δ
to Subsurface Oil

2 Δ
Subsurface Oil

CT/C
nuous Distribution

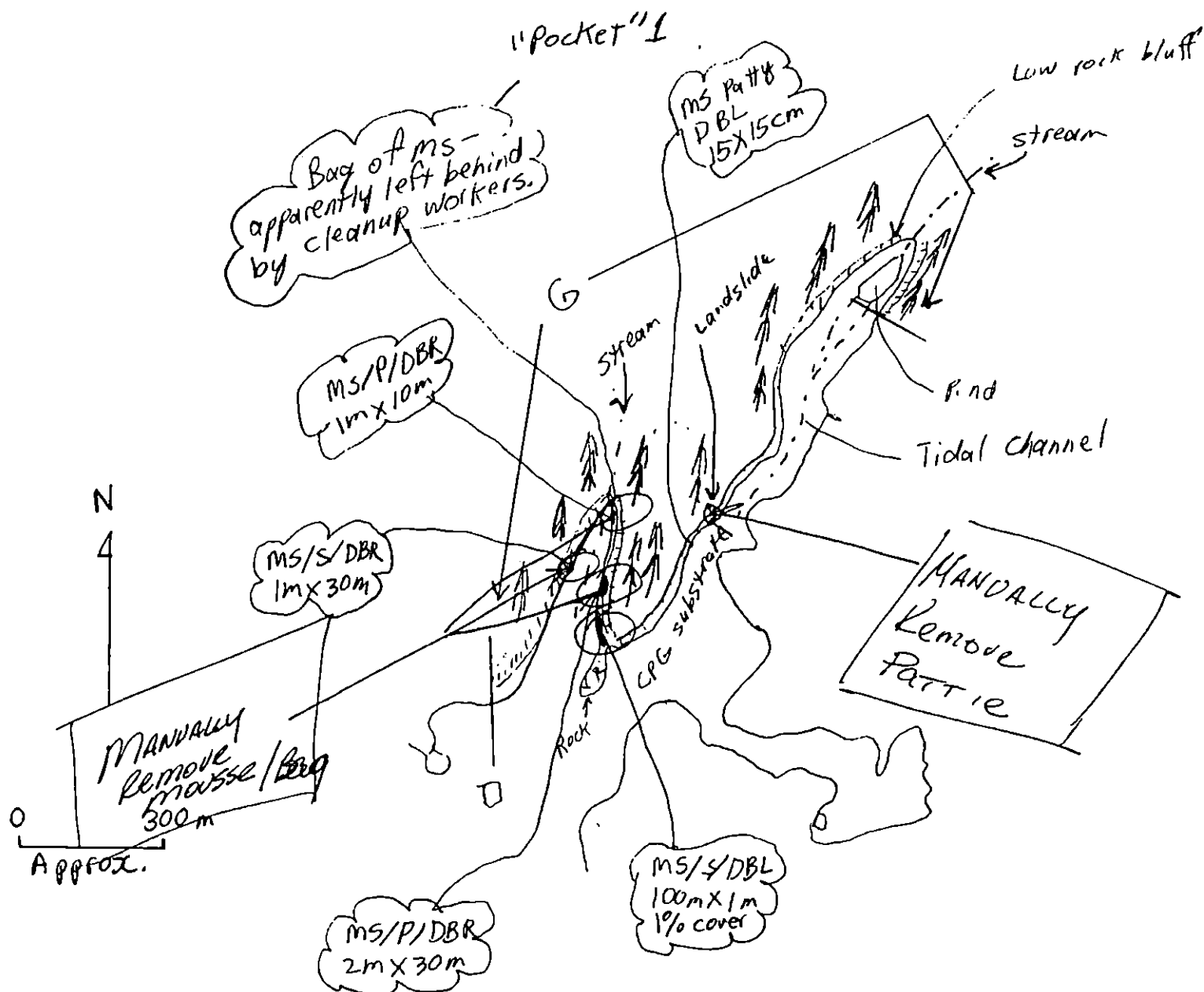
CT/B
n Distribution

CT/P
y Distribution

CT/S
hed Distribution

Vegetation

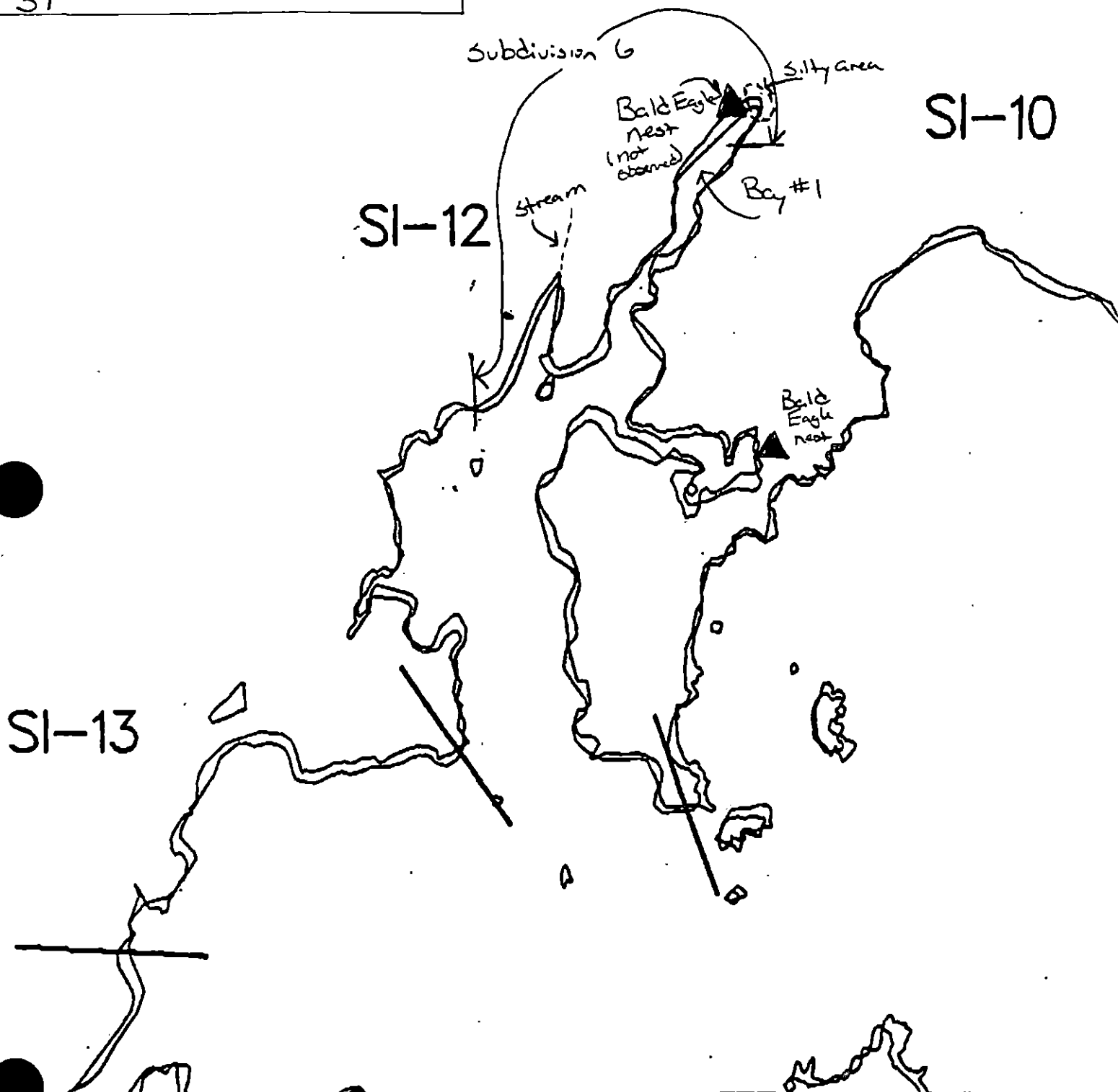
$\rightarrow$
location, direction,
number



Character Length (m): AP _____ PO _____ CV _____ CT _____ ST _____ MS 170 PT _____ TB _____ FL _____ NO 2230

REVISION: 03/24/90

Ecology Map
Resource Codes for Entire Segment
ST



XXXX Wide
//// Medium
--- Narrow

SI-12-G

ADEC Segment Length: 9081m

Map Key: KOD-170

Name: _____

Date: _____

SI-13

SI-12

SI-10

G

Narrow

Narrow

A

XXXX Wide
//// Medium
--- Narrow

Kø1ø1- SI-12-G

ADEC Segment Length: 9081m

Map Key: KOD-170

Name: J. Springer

ADDENDUM: SUBDIVISION CONSTRAINTS

SEGMENT K01-01-SI-012 SUBDIVISION G (7 of 7)

WORK WINDOW

Manual Pickup

OPEN

ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

5T Bald Eagle Nest

NO CONSTRAINT. USFWS 4/9/90 map indicates no active nest within 400m of Subdivision G work sites.

OTHER ECOLOGICAL CONSIDERATIONS

Restrict air traffic and all disturbance to essential minimum. No personnel or boat traffic within 400m of active nests. Air approach and takeoff from and to seaward only; maintain 400m horizontal, 300m vertical distance from active nests. Avoid any unnecessary disturbance or damage to uncollected biota and substrate.

FOSC

R. Zamora

Date

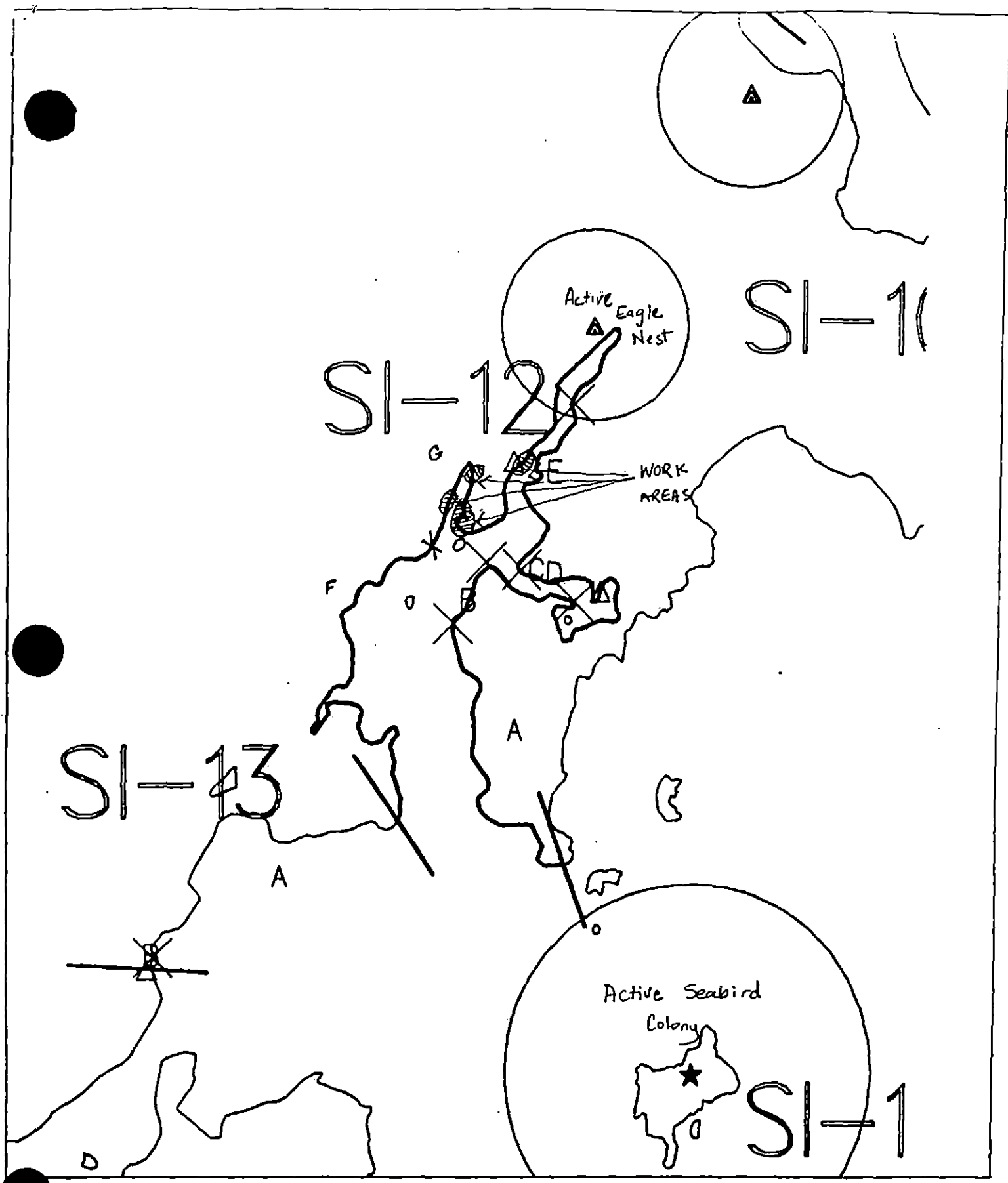
6/29/90

Prepared by

Ray R. Coulton

Date

6-28-90



Exxon Company, USA
Map Key: KOD-SI-12



ECOLOGY MAP
SEGMENT KI-1 SI-12
SUBDIVISION G (7 of 7)
METERS
0 1000 1119

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

1 inch = 1824 feet

SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-012 SUBDIVISION G (7 OF 7) DATE 6/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

5T-2 All Bald Eagle nests (3/1 to 6/1)

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

4GG State Marine Park Alaska State Parks

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

ARCHAEOLOGICAL CONSTRAINTS:

If cultural resources are uncovered during shoreline treatment, stop work in the vicinity, mark the location of the find and contact Exxon's Cultural Resource Program immediately (564-3274 (Anchorage) or 229-1508 (24 hrs.)).

PO SIGNATURE: Charles H. Jones

DATE: June 19, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 96 m: V.Light 109 m: No Oil 2038 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

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

COMMENTS: Recommended treatment is manual removal of mousse and the bag of oiled material (mousse) as indicated on attached sketch map.

TAG COMMENTS:

TAG APPROVAL DATE: 6/16/90

ADEC Ran Moxley R. Moxley

EXXON ANDY T. T. T.

NOAA Wanda T. T. T.

FOSC:

DATE: 6-27-90

7/24/90

ADDENDUM: SUBDIVISION CONSTRAINTS

SEGMENT K01-01-SI-011 SUBDIVISION A (1 of 2)

| WORK WINDOW | |
|---------------------------------|--|
| Manual Pickup
Tarnat Removal | CLOSED
OPEN
(USFWS MONITOR REQ.) |
| Bioremediation* | CLOSED
OPEN
(USFWS MONITOR REQ.) |

G.A. Ritten
for FOSC

*No Inpol - Use Customblen Only

ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 584-3274.

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

5R Seabird Colony

CLOSED TO Manual Pickup, Tarnat Removal, and Bioremediation based on communication with USFWS (Jim Parker) on 7/24/90
 Constraint may be waived by USFWS monitor per conversation of Jim Parker/USFWS to Rex Coulter/Exxon on 7/02-90. Approach must be from the south.

PPD

OTHER ECOLOGICAL CONSIDERATIONS

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

FOSC

[Signature]

Date

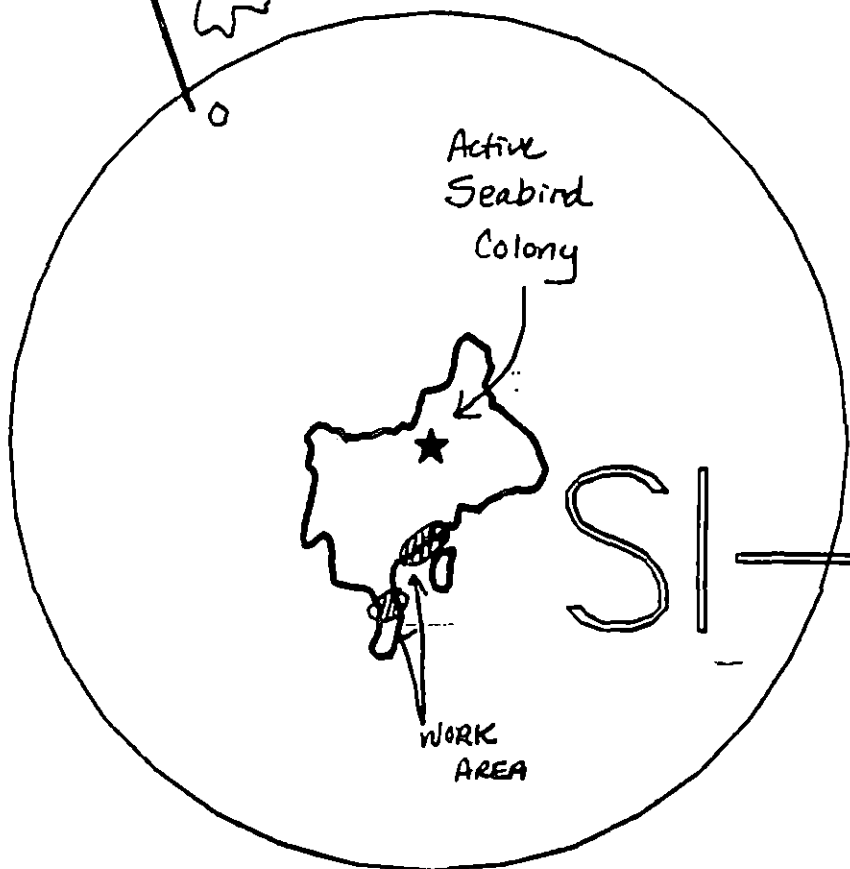
7/3/90

Prepared by

[Signature]

Date

7-2-90



Exxon Company, USA
 Map Key: KOD-SI-11
 Date 10. 1988



ECOLOGY MAP
 SEGMENT K1-1 SI-11
 SUBDIVISION A (1 of 2)
 METERS



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

SHORELINE EVALUATION

SEGMENT ST/ K06-34-SL-08 SUBDIVISION A (1 OF 1) DATE 4/7/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Salmon stream mouth (ASC #256-40, #10010)
1A Salmon - fry outmigration (4/15 to 7/31)
1B Salmon - spawning (7/15 to 9/10; PEAK 8/15)

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to uncoiled biota and substrate.

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: Charles E. Hume

DATE: April 14, 1990 *CDH 4/15/90*

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 61 m: V.Light 304m: No Oil 0 m
Subsurface Oil Observed: Yes X No Maximum Depth 10 cm

RECOMMENDATIONS:

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

COMMENTS: Bioremediate subsurface oil.

SEE CONSTRAINT ADDENDUM dated 6/15/90.

REVISION 1,
SEE CONSTRAINTS ADDENDUM DATED 7/24/90 *ppp*

TAG COMMENTS:

TAG APPROVAL DATE: 4/14/90

ADEC John B. Anderson

EXXON ANDY TATE

NOAA Buttler, [unclear]

FOSC: [signature]

DATE: 4-22-90

(Thickest)

(Ti)

include limited pickup of mussels

SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-013 SUBDIVISION A (1 OF 2) DATE 4/3/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

- 1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to unoiled biota and substrate. See attached Ecological Constraint Sheet.

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: Charles J. Homan DATE: April 14, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 0 m: No Oil 1636 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

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

COMMENTS: Recommend manual pick up of oiled plastic, between 5/16 and 7/9.

TAG COMMENTS:

TAG APPROVAL DATE: 4/14/90
ADEC JOHN BAUER
EXXON ANDY TETZ FOSC: DATE: 4-22-90
NOAA Burt Wescott
USCG G.A. REITER

SEGMENT 0121/ST013

SUBDIVISION A

DATE 4 / 3 90

CHECKLIST

- ☒ N Arrow
- ☒ Approx. Scale
- ☒ Seq/Sub Entry
- ☒ Oil Dist.
- ☒ Width
- ☒ Length
- ☒ % Cover
- ☒ Substrate Character
- ☒ Est. HMLA/VL
- ☒ SSL
- ☒ Profile Location(s)
- ☒ Profile(s)
- ☒ Pli Location(s)
- ☒ Photo Location(s)

LEGEND

1 Δ
Pli - No Subsurface Oil

2 Δ
Pli - Subsurface Oil

CT/C
Continuous Distribution

CT/B
Broken Distribution

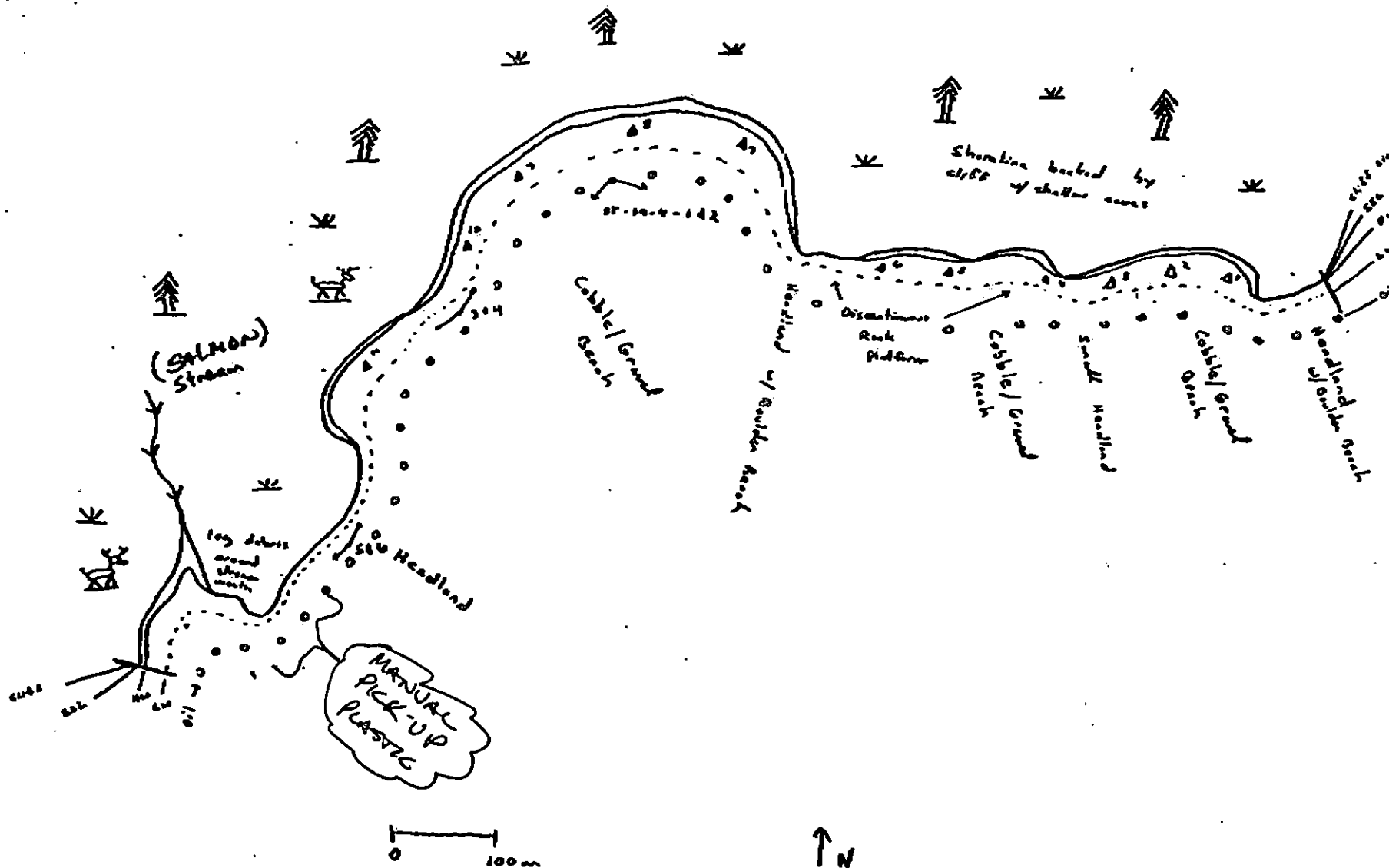
CT/P
Patchy Distribution

CT/S
Splashed Distribution

Oil Vegetation

1 →
Photo location, direction,
and number

SKETCH MAP



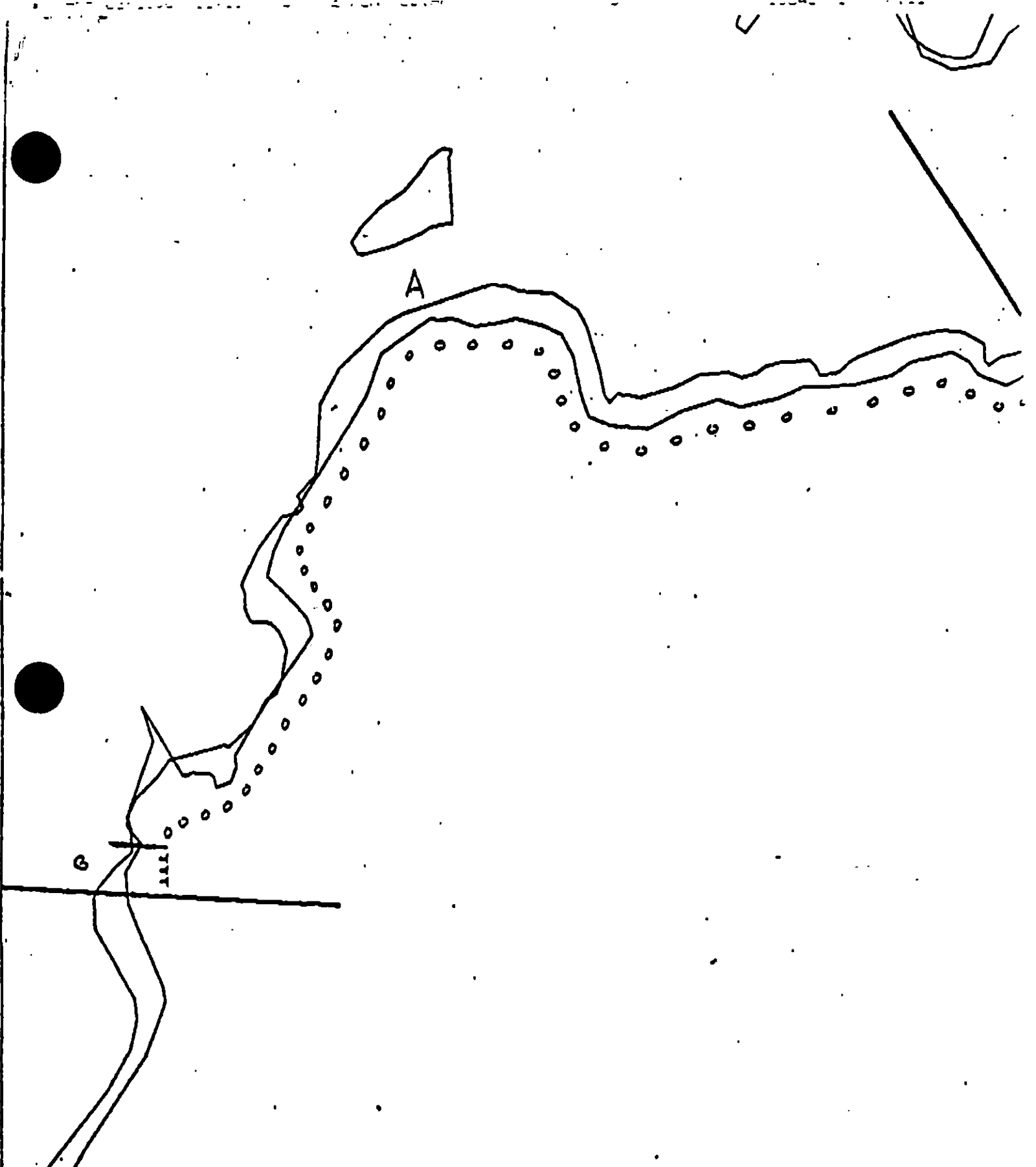
Tractor Length (m): AP ☐ PO ☐ CV ☐ CT ☐ ST ☐ MS ☐ PT ☐ TB ☐ FL ☐ NO 1911

REVISION 000000

PRK-UB-1000 10:10 PM 10/10/90

15045771

P.03



XXXX Wide

/// Medium

--- Narrow

TTTT Very Light

OOOO No Oil

SI-13

ADEC Segment Length: 1971m



Map Key: KOD-1710

Name: Shaa Peninsula

Date: 4-4-90

Data Entered:

ADDENDUM: SUBDIVISION CONSTRAINTS

SEGMENT K01-01-SI-013 SUBDIVISION A (1 of 2)

WORK WINDOW

Manual Pickup

OPEN

ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

1A,1B Salmon Stream

ADF&G catalogued anadromous stream (251-82-812) is in Subdivision A. No constraint to manual pickup.

OTHER ECOLOGICAL CONSIDERATIONS

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

FOSC

[Signature]

Date

6-15-90

Prepared by

[Signature]

Date

6/15/90

STREAM #
251-B2-B12

SI-13

A

A

WORK AREA

STREAM BUFFER ZONE

TREATMENT



Exxon Company, USA

Map Key: KOD-SI-13

1:10,000



ECOLOGY MAP
SEGMENT KI-1 SI-13
SUBDIVISION A (1 of 2)
METERS



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

1 inch = 1432 feet

SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-013 SUBDIVISION A (1 OF 2) DATE 4/3/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (4/15 to 7/31)

1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to unoiled biota and substrate. See attached Ecological Constraint Sheet.

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: Charles J. Hoffman DATE: April 14, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 0 m: No Oil 1636 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

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

COMMENTS: Recommend manual pick up of oiled plastic, between 5/16 and 7/9.

^{CONSTRAINTS}
SEE ADDENDUM dated 6/15/90 JP

TAG COMMENTS:

TAG APPROVAL DATE: 4/14/90
ADEC JOHN BAUER
EXXON ANDY TER FOSC: DATE: 4-22-90
NOAA Burl Wascott
USCG G.A. BEITER

SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-013 SUBDIVISION B (2 OF 2) DATE 4/3/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (4/15 to 7/31)

1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to unoiled biota and substrate. See attached Ecological Constraint Sheet.

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: Charles E. Adams DATE: April 14, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 14 m: No Oil 62 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

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

COMMENTS:

TAG COMMENTS:

TAG APPROVAL DATE: 4/14/90.

ADEC Art Weiner D. Weiner

EXXON ANDY TEAL

NOAA Bud Wescott

USCG G.A. REITER G.A. Reiter

FOSC: W L DATE: 5-1-90

SKETCH MAP

SEGMENT 7 / K0101 / SE 013

SUBDIVISION 6

DATE 4 / 3 90

CHECKLIST

- ☐ N Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Entry
- ☐ Oil Dist.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. HAWAII
- ☐ SSZ
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ PFI Location(s)
- ☐ Photo Location(s)

LEGEND

1 Δ

PFI - No Subsurface Oil

2 Δ

PFI - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

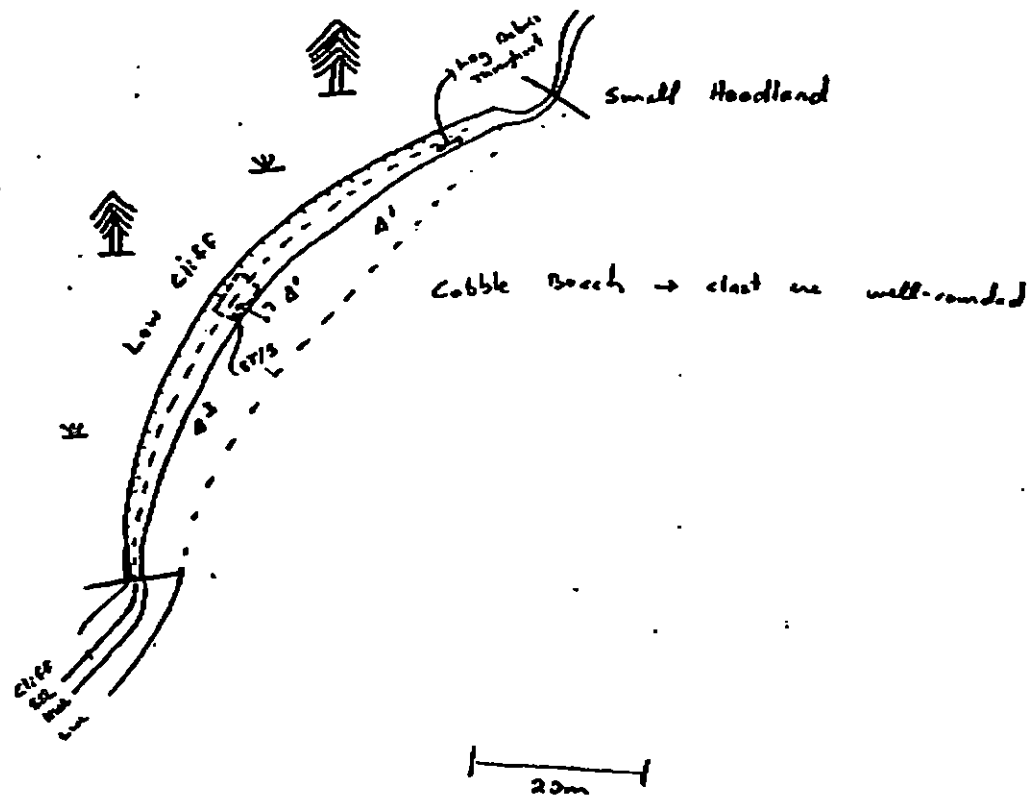
CT/S

Splashed Distribution

Oil Vegetation

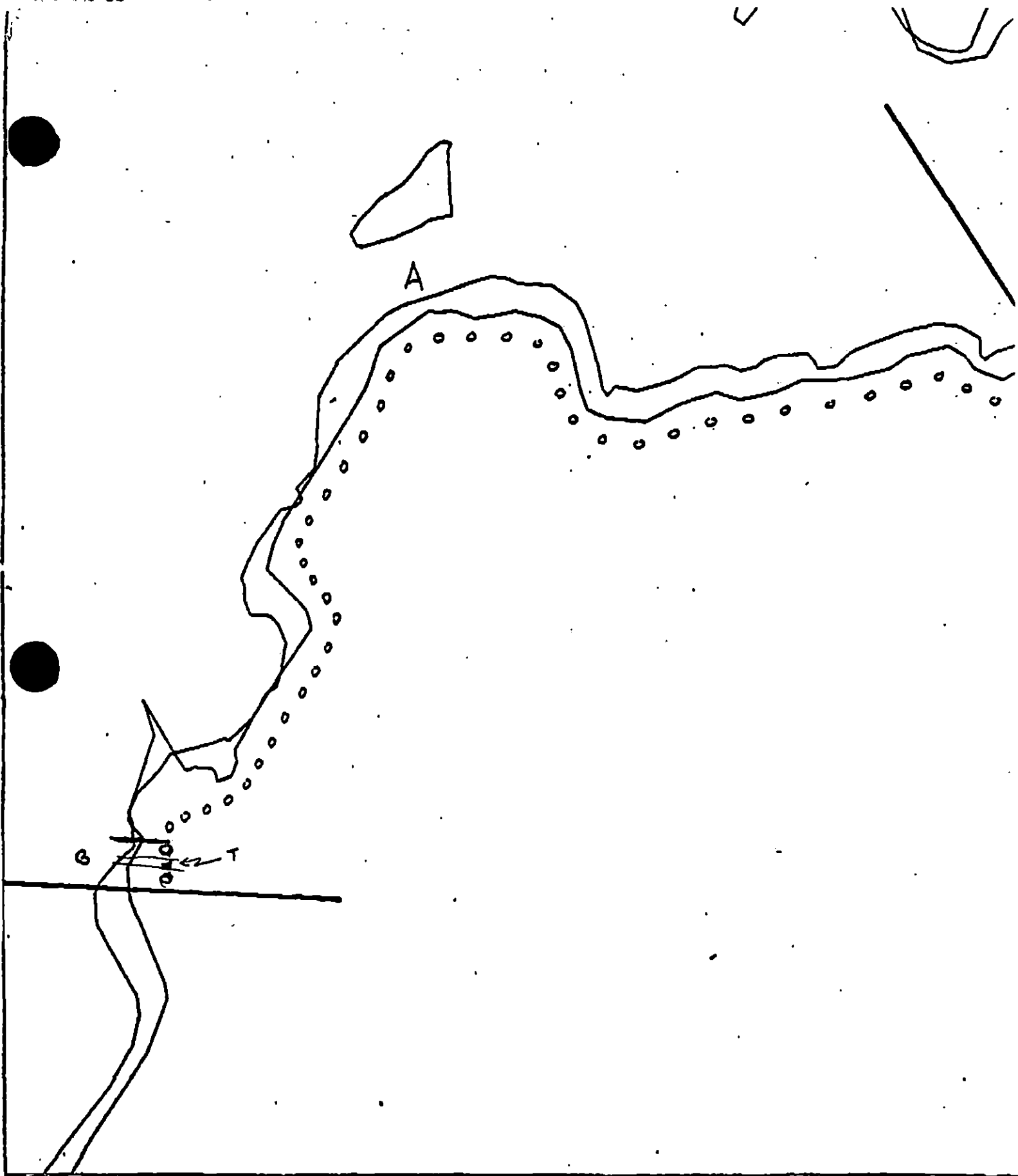
1 $\Rightarrow$

Photo location, direction, and number



Oil Character Length (m): AP 7 PO 0 CV 0 CT 0 ST 10 MS 0 PT 0 TB 0 FL 0 NO 50

REVISIONS



XXX Wide

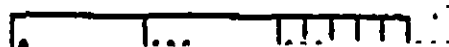
/// Medium

--- Narrow

TTTT Very Light

SI-13

ADEC Segment Length: 1971m



Map Key: KOD-171e

Name: Shaa Penland

Date: 4-4-90

REGION: KODIAK

SEGMENT: K01-01-SI-013

SUBDIVISIONS: A (1 OF ²2)

SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-013 SUBDIVISION A (1 OF 2) DATE 4/3/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to unoiled biota and substrate. See attached Ecological Constraint Sheet.

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 0 m: V.Light 0 m: No Oil 1636 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: ☐ Breakup | ☐ Beach Cleaner |
| ☐ Removal | ☐ Other (see comments) |

COMMENTS: Recommend manual pick up of oiled plastic, between 5/16 and 7/9.

TAG COMMENTS:

TAG APPROVAL DATE: _____

ADEC _____
EXXON _____
NOAA _____
USCG _____

FOSC: _____ DATE: _____

FIELD SHORELINE COMMENT SHEET

SEGMENT ST/ KO101/SI013 SUBDIVISION: A DATE 4-3-90NOAA
606NAME John Naughton SIGNATURE John J. Naughton☒ NO TREATMENT RECOMMENDED☐ TREATMENT SUGGESTED

COMMENTS

Walked entire segment. No oil observed.

ADEC

NAME Scott Shelton SIGNATURE Scott Shelton☒ NO TREATMENT RECOMMENDED☐ TREATMENT SUGGESTED

COMMENTS

KO101/SI13 Sub. A

No oil observed - High energy beach. Access due to the steep cliffs is possible from Sub. A northern most boundary and S/W subdivision B. TEAM'S Members walked 1911 Meters of the Cobble/bedrock beach. 11 pits were dug with no subsurface oil observed. Deer observed Feeding on beach vegetation. Stream in this Subdivision has a salmon run.

LAND MANAGER

NAME Lay Burger AONR SIGNATURE Lay Burger☒ NO TREATMENT RECOMMENDED☐ TREATMENT SUGGESTED

COMMENTS

No oil observedTwo pieces of oiled ^{plastic} debris found @ MHW of pocket beach in mid-segment.Two beaches on segment are landable/campableNumerous deer tracks on beach + upland trailsStream at south end of segment had 2 deer carcasses + 6 eagles overhArea considered for addition to Shuyak State Park

SHORELINE OILING SUMMARY

REVISION NO. 02/22/88

OG Penland USCG Naughton SEGMENT ST/ K0101/52013
 BIO Spight LAND REP Burgen SUBDIVISION A
 EXXON Grace ADEC Shelton TIME 13:15 to 15:42
 TEAM NO.: 19 TIDE LEVEL: -3 ft to -1.75 ft DATE 4/3/90
 EST. SUBDIVISION LENGTH: 1911 m ☐ Sun ☐ Clouds ☐ Fog ☒ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: N to S
 SURFACE SEDIMENTS: R 20 % B 20 % C 20 % P 20 % G 20 % S 0 % M 0 % V 0 %
 SLOPE: Long 40 % Hang 30 % Vert 30 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 0 m NO 1911 m

SURFACE OIL

| CHARACTER | DISTRIBUTION | | | | OIL / FILM COLOR | | | | | | | | IMPACTED ZONES | | | |
|------------------|--------------|----|----|----|------------------|----|----|----|----|----|----|----|----------------|---|---|---|
| | NO | 1B | 1P | 1S | 2B | 2P | 2S | 3B | 3P | 3S | 4B | 4P | SU | U | M | U |
| ASPHALT PAVEMENT | | | | | | | | | | | | | | | | |
| POOLED | | | | | | | | | | | | | | | | |
| COVER | | | | | | | | | | | | | | | | |
| COAT | | | | | | | | | | | | | | | | |
| STAIN | | | | | | | | | | | | | | | | |
| MOUSSE | | | | | | | | | | | | | | | | |
| PATTIES | | | | | | | | | | | | | | | | |
| TARBALLS | | | | | | | | | | | | | | | | |
| FILM | | | | | | | | | | | | | | | | |
| NO OIL | | | | | | | | | | | | | | | | |

PAVEMENT: H F S 0 sq. m by 0 crPATTIES / TARBALLS 0 BAGSNEAR SHORE SHEEN? ☒ BR RW SL TL

| OILED DEBRIS | AMOUNT | | |
|--------------|--------|----|----|
| | SM | MD | LG |
| Logs | | | |
| Vegetation | | | |
| Trash | | | |
| Debris | | | |

DEBRIS COLLECTED
☐ YES ☒ NOTYPE 0#BAGS 0

Photographs:

Roll No. ST-19-4Frames 1 & 2

SUBSURFACE OIL

| PIT NO. | PIT DEPTH (cm) | SUBSURFACE OIL CHARACTER | | | | | OILED INTERVAL (CM-CH) | BELOW | | OIL / FILM COLOR | | | | | | | | PIT ZONE | | | | A
N
A | SUBSURFACE SEDIMENTS |
|---------|----------------|--------------------------|----|----|----|----|------------------------|-------|----|------------------|----|----|----|----|----|----|----|----------|---|---|---|-------------|----------------------|
| | | OP | OR | OL | OF | NO | | UO | UO | 2B | 2P | 2S | 3B | 3P | 3S | 4B | 4P | SU | U | M | U | | |
| 1 | 30 | | | | | | . | | | | | | | | | | | | | | | | Cobble, gravel |
| 2 | 30 | | | | | | . | | | | | | | | | | | | | | | | " |
| 3 | 30 | | | | | | . | | | | | | | | | | | | | | | | " |
| 4 | 30 | | | | | | . | | | | | | | | | | | | | | | | " |
| 5 | 30 | | | | | | . | | | | | | | | | | | | | | | | " |
| 6 | 30 | | | | | | . | | | | | | | | | | | | | | | | " |

COMMENTS

- no oil observed in subdivision A
- Subdivision A is a section of interconnected headlands with cobble beaches.

SHORELINE OILING SUMMARY (PAGE 1 of 2)

REVISION 03/22/88

SEGMENT ST/ Ko 12 / 15213 SUBDIVISION A

SUBSURFACE OIL (CONTINUED)

| PIT NO. | PIT DEPTH (cm) | SUBSURFACE OIL CHARACTER | | | | | OILED INTERVAL (CM-CH) | BELOW | | OIL / FILM COLOR | | | | | | | | PIT ZONE | | | | A
N
A | SUBSURFACE SEDIMENTS |
|---------|----------------|--------------------------|----|----|----|----|------------------------|-------|----|------------------|----|----|----|----|----|----|----|----------|---|---|---|-------------|----------------------|
| | | OP | OR | OL | OF | NO | | DO | UC | BR | OR | DR | BR | DR | OR | DR | OR | SU | U | M | U | | |
| 7 | 30 | | | | | X | - | | | | | | | | | | | X | | | | | Cobble, gravel |
| 8 | 40 | | | | | X | - | | | | | | | | | | | X | | | | | " |
| 9 | 50 | | | | | X | - | | | | | | | | | | | X | | | | | " |
| 10 | 50 | | | | | X | - | | | | | | | | | | | X | | | | | " |
| 11 | 3 | | | | | X | - | | | | | | | | | | | X | | | | | " |
| | | | | | | | - | | | | | | | | | | | | | | | | |
| | | | | | | | - | | | | | | | | | | | | | | | | |
| | | | | | | | - | | | | | | | | | | | | | | | | |
| | | | | | | | - | | | | | | | | | | | | | | | | |
| | | | | | | | - | | | | | | | | | | | | | | | | |
| | | | | | | | - | | | | | | | | | | | | | | | | |
| | | | | | | | - | | | | | | | | | | | | | | | | |
| | | | | | | | - | | | | | | | | | | | | | | | | |
| | | | | | | | - | | | | | | | | | | | | | | | | |
| | | | | | | | - | | | | | | | | | | | | | | | | |
| | | | | | | | - | | | | | | | | | | | | | | | | |
| | | | | | | | - | | | | | | | | | | | | | | | | |
| | | | | | | | - | | | | | | | | | | | | | | | | |

COMMENTS

REVIEWED 7W DATE 4/8/90

SEGMENT K012/SK013

SUBDIVISION A

DATE 4 / 3 90

CHECKLIST

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

LEGEND

1 Δ
PI - No Subsurface Oil

2 Δ
PI - Subsurface Oil

CT/C
Continuous Distribution

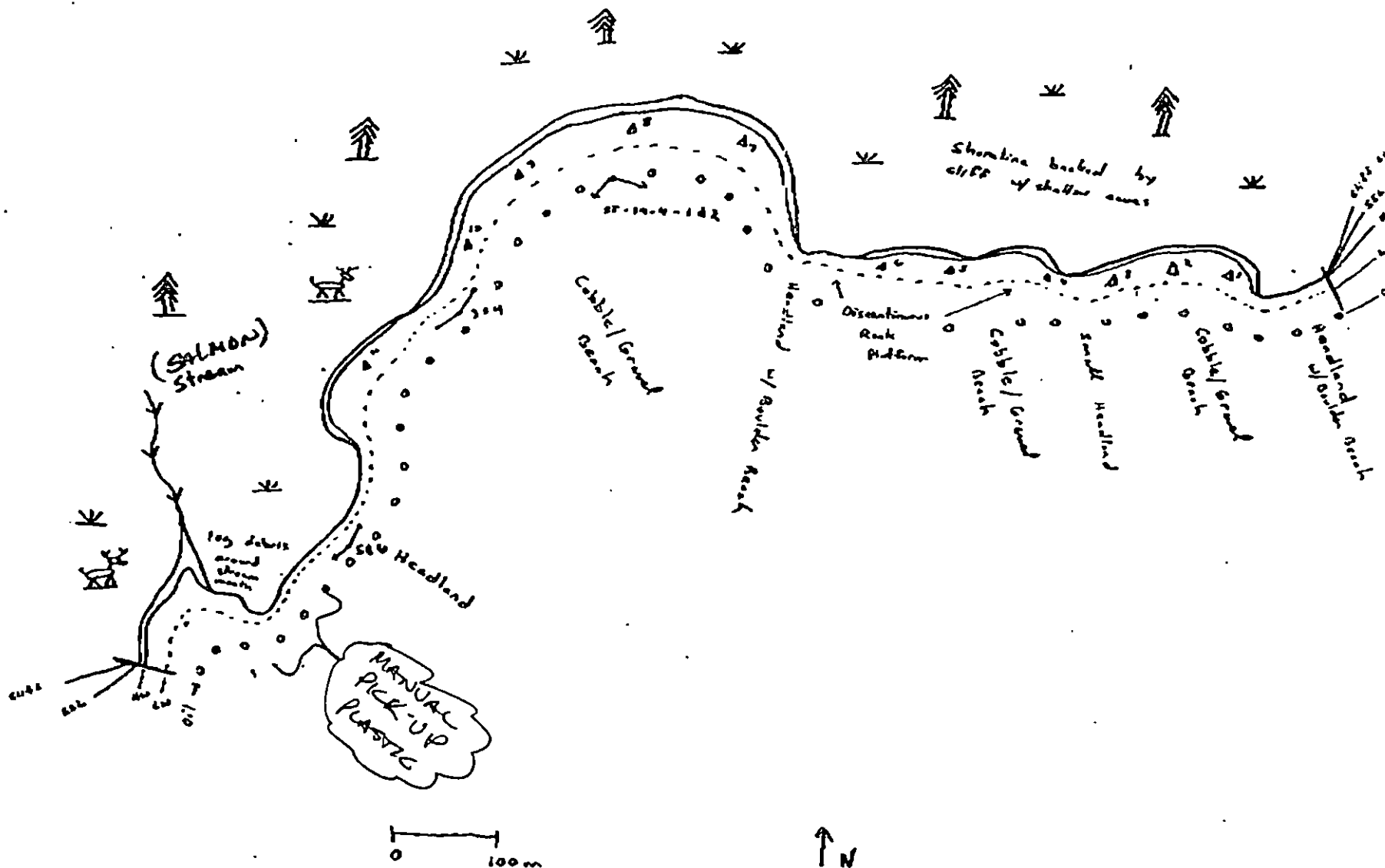
CT/B
Broken Distribution

CT/P
Patchy Distribution

CT/S
Splashed Distribution

Oil Vegetation

1 ↔
Photo location, direction, and number



vector Length (m): AP 0 PO 0 CV 0 CT 0 ST 0 MS 0 PT 0 TB 0 FL 0 NO 1911

REVISIONS

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22/90

Segment ST / SI-013 Subdivision A Date (mo / day / yr) 4/3/90
Time (24 hr) 13:22 Biologist SPIGHT

- (A) Substrate type and % of segments:
(1) Bedrock 20 (2) Boulder 20 (3) Cobble 20 (4) Pebble 20 (5) Sand (6) Silt
- (B) Overall % cover of biota (% of segment): Dense 30 Moderate 50 Low 20
- (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.

Frames

BARNACLES

| 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 | NOT PRESENT |
| 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 | |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |

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 | NOT PRESENT |
| 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 | |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |

GASTROPODS

| Dense | | | Moderate | | | Sparse | | | Rare | | | |
|--------------|----|----|--------------|--------------|--------------|--------------|----|----|------|----|----|-------------|
| 1U | 1M | 1L | 1U | 1M | 1L | 1U | 1M | 1L | 1U | 1M | 1L | |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | NOT PRESENT |
| 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 | |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |

FUCUS

| Dense | | | Moderate | | | Sparse | | | Rare | | | |
|--------------|----|----|--------------|--------------|--------------|--------------|----|----|------|----|----|-------------|
| 1U | 1M | 1L | 1U | 1M | 1L | 1U | 1M | 1L | 1U | 1M | 1L | |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | NOT PRESENT |
| 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 | |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |

Wildlife Observations/ General Comments:

Possible Anadromous stream at Western end of section
Abundant signs of deer, bear above on headlands.

Ecological Considerations:

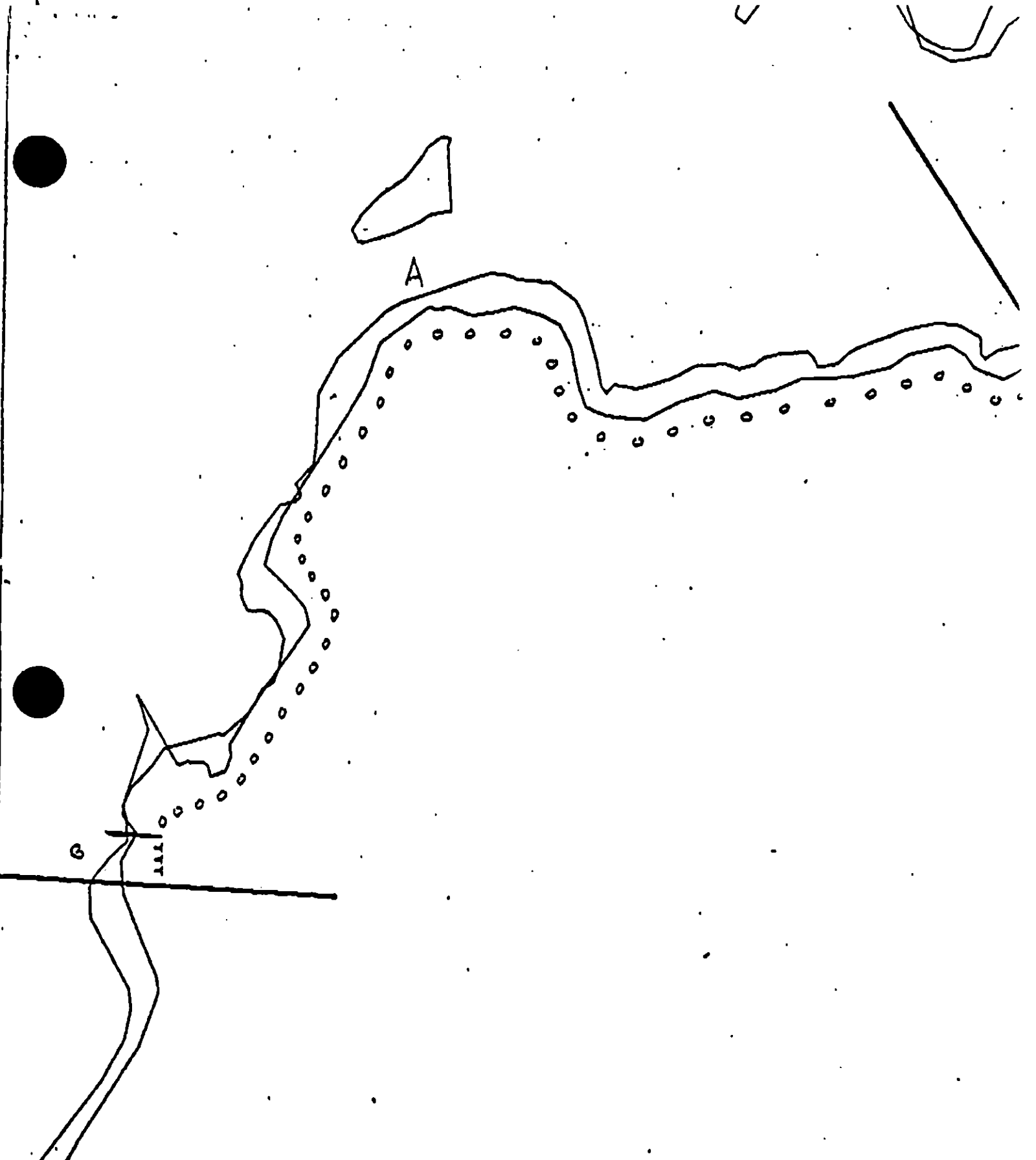
One basic habitat type but extremely patchy; all forms locally very dense;
in amt. of dense population in total habitat probably barnacles > snails >
Fucus > Mytilus. Variants depend on exposure, cobble size,
amt of relatively flat surface (vs. vertical, which favors barnacles),
and others

KODIAK ECOLOGICAL CONSTRAINTS

SI-013-A 1B

- 1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
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 Kotai Bay Hatchery release
Pink salmon - late May, early June; Chum salmon - June; Sockeye salmon - early July.
- 1H Remote release site
- 1I Gill net area
- 1J Purse seine area
Mainland, West side Kodiak, Shuyak & Moser/Olga Bay - 6/9 to 10/1.
East side Kodiak, East side Afognak - 7/4 to 10/1.
- 1K Purse seine hook-off
- 1L Set net areas
USFWS setnet uplands permit 5/15 to 9/15.

For Codes 1C through 1L contact ADF&G for specific dates, locations and constraints.
- 2M Herring spawning (4/15 to 6/30)
Restrict boat traffic to essential minimum. Avoid damage to unopened intertidal and subtidal algae and seagrass. Contact ADF&G for specific dates and locations.
- 3N, 3P Harbor seal and sea lion pupping (5/10 to 6/30)
Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 3O, 3Q Harbor seal and sea lion molting (8/15 to 9/15)
Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 5R Seabird colony (5/1 to 8/31)
Restrict air traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance. Contact ADF&G and USFWS prior to treatment.
- 5S Shorebird/waterfowl concentration (4/1 to 5/15)
Restrict all activity to essential minimum, especially air traffic.
- 5T All Bald Eagle nests (3/1 to 6/1)
Active Bald Eagle nests (3/1 to 9/1)
Restrict air traffic to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates.
- 6U Recreation: Tent sites (6/1 to 9/15)
- 6V Anchorages (6/1 to 9/15)
- 6W Forest Service cabins (6/1 to 9/15)
- 6X Lodge (6/1 to 9/15)
- 6Y Special use destination
- 7Z Subsistence area: Salmon harvesting (6/1 to 9/30)
- 7HH Finfish harvesting
- 7II Deer harvesting (8/1 to 1/7)
- 7JJ Invertebrate harvesting
- 7KK Bear harvesting (4/1 to 5/15 and 10/25 to 11/30)
For Codes 7Z through 7JJ contact ADF&G and Chenega Corporation for specific dates, locations, and constraints.



XXXX Wide

/// Medium

--- Narrow

TTTT Very Light

OOOO No Oil

SI-13

ADEC Segment Length: 1971m



Map Key: KOD-171e

Name: Shaa Penland

Date: 4-4-90

Data Entered:

REGION: KODIAK

SEGMENT: K01-01-SI-013

SUBDIVISIONS: B (2 OF 2)

SHORELINE EVALUATION

SEGMENT ST/ K01-01-SI-013 SUBDIVISION B (2 OF 2) DATE 4/3/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)

SUBDIVISION ECOLOGICAL CONSTRAINTS:

Avoid disturbance/damage to unoiled biota and substrate. See attached Ecological Constraint Sheet.

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 14 m: No Oil 62 m
Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

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

COMMENTS:

TAG COMMENTS:

TAG APPROVAL DATE: _____

ADEC _____

EXXON _____

NOAA _____

USCG _____

FOSC: _____ DATE: _____

FIELD SHORELINE COMMENT SHEET

SEGMENT ST/ K01011/SI013 SUBDIVISION: B DATE 4-3-90

NOAA
806

NAME John Naughton SIGNATURE John J. Naughton

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED
COMMENTS

Walked segment. Few splatters and stain observed on log debris.

ADEC

NAME Scott Shelton SIGNATURE Scott Shelton

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED
COMMENTS K01011/SI013 Sub.B (60 meters)

Staining on drift observed located in the supratidal storm drift. Belt. One weathered TAR ball observed less than 5cm in diameter. 3 Pits to 30cm no sub surface oil observed in cobbles/gravel beach.
Heavy marine debris/plastic in this area.
Six deer observed feeding on beach vegetation.

LAND MANAGER

NAME Ray Burger ADNR SIGNATURE Ray Burger

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED
COMMENTS

This pocket beach @ south end of segment had old tar balls & very sporadic splatters of stain on the driftwood logs so few as to be unobtrusive.
Beach has moderate amount of unsoiled plastic debris landable/campable.
Six deer seen on beach.
Area considered for addition to Shuyet State Park

SHORELINE OILING SUMMARY

REVISION NO. 04207K

OG Penland NOAA Naughton SEGMENT ST/ K0101/52013
 BIO Seight LAND REP Avraen ADNR SUBDIVISION B (2 of 2)
 EXXON Byers ADEC Shelton TIME 13:15 to 15:42
 TEAM NO.: 19 TIDE LEVEL: -3.65 to -1.75 ft DATE 4/3/90
 EST. SUBDIVISION LENGTH: 60m ☐ Sun ☐ Clouds ☐ Fog ☒ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: N to S
 SURFACE SEDIMENTS: R 10 % B 20 % C 50 % P 10 % G 10 % S 0 % M 0 % V 0 %
 SLOPE: Lang 70 % Hang 20 % Vert 10 % WAVE EXPOSURE: ☐ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 10 m NO 50 m

SURFACE OIL

| CHARACTER | DISTRIBUTION | | | | OIL / FILM COLOR | | | | | IMPACTED ZONES | | | |
|------------------|--------------|----|----|----|------------------|----|----|----|----|----------------|----|----|----|
| | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 |
| ASPHALT PAVEMENT | | | | | | | | | | | | | |
| POOLED | | | | | | | | | | | | | |
| COVER | | | | | | | | | | | | | |
| COAT | | | | | | | | | | | | | |
| STAIN | | | | | | | | | | | | | |
| MOUSSE | | | | | | | | | | | | | |
| PATTIES | | | | | | | | | | | | | |
| TARBALLS | | | | | | | | | | | | | |
| FILM | | | | | | | | | | | | | |
| NO OIL | | | | | | | | | | | | | |

PAVEMENT: H F S C sq. m by 0 c

PATTIES / TARBALLS 0 BAGS

NEAR SHORE SHEEN? ☒ NO BR RW SL TL

| OILED DEBRIS | AMOUNT | | |
|--------------|--------|----|----|
| | SM | MD | LG |
| Logs | | | |
| Vegetation | | | |
| Trash | | | |
| Debris | | | |

DEBRIS COLLECTED
☐ YES ☒ NO

TYPE N/A

#BAGS 0

Photographs:

Roll No. ST-19-4

Frames 7

SUBSURFACE OIL

| 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 | | | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | | |
| 1 | 30 | | | | | | | | | | | | | | | | | | Cobble / gravel |
| 2 | 30 | | | | | | | | | | | | | | | | | | Cobble / gravel |
| 3 | 30 | | | | | | | | | | | | | | | | | | Cobble / gravel |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

COMMENTS

- oil stain can be observed on log debris, the stain is very discontinuous.
- using the VL category is misleading to the actual extent of oiling.
- only observed approximately, < 10 signs, areas stained in 10m x 1m

SKETCH MAP

SEGMENT 1 / K0101 / ST 013

SUBDIVISION 5

DATE 4 / 3 90

CHECKLIST

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

LEGEND

1 Δ

PH - No Subsurface Oil

2 Δ

PR - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

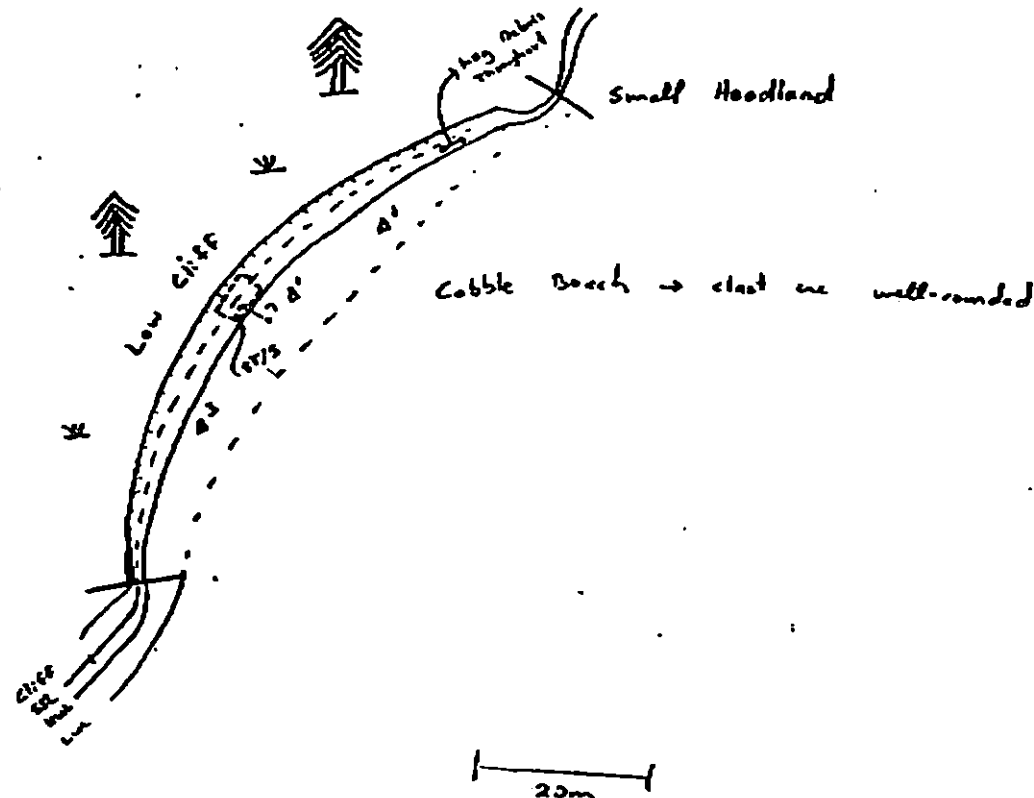
CT/S

Splashed Distribution

Oil Vegetation

1 $\Rightarrow$

Photo location, direction, and number



Oil Character Length (m): AP 0 PO 0 CV 0 CT 0 ST 10 MS 0 PT 0 TB 0 FL 0 NO 50

REVISION: 09/24/90

SHORELINE ECOLOGICAL SUMMARY

REVISION: 02/22/90

Segment ST/ SI-013 Subdivision B Date (mo / day / yr) 4 / 3 / 90

Time (24 hr) 15:39 Biologist SPIGHT

(A) Substrate type and % of segments:
(1) Bedrock 10 (2) Boulder 20 (3) Cobble 50 (4) Pebble 10 (5) Sand 10 (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 (O)

Photographs:
Roll No.

Frames

BARNACLES

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

NOT PRESENT

FUCUS

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

NOT PRESENT

Wildlife Observations/ General Comments:

Several deer on beach, probably feeding in kelp

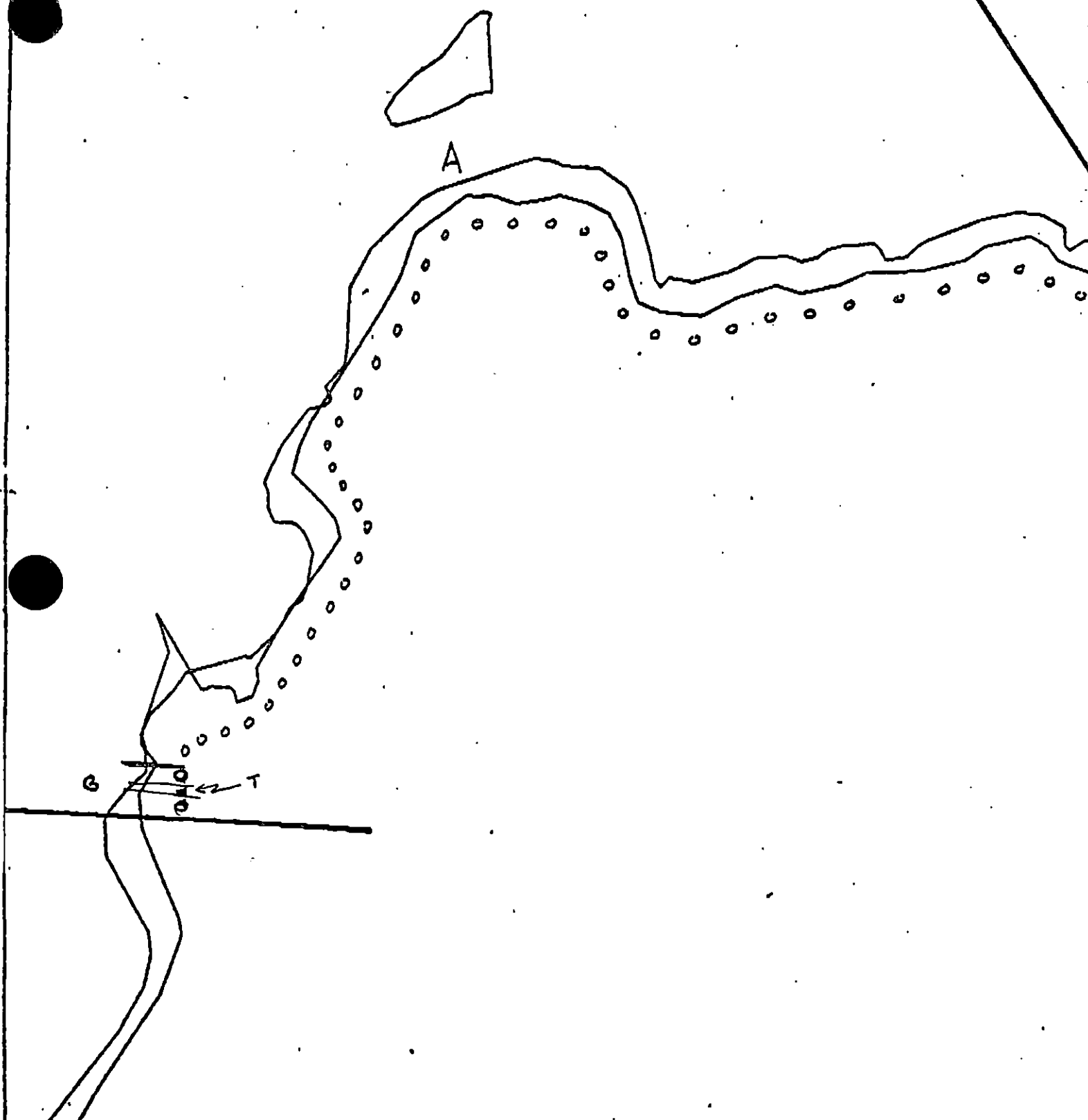
Ecological Considerations:

Mussels forming bed in gravel areas but overall bed density is M

1A, 1B

KODIAK ECOLOGICAL CONSTRAINTS

- 1A** **Salmon stream mouth - fry outmigration (4/15 to 7/31)**
1B **Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)**
 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** **Kotol Bay Hatchery release**
 Pink salmon - late May, early June; Chum salmon - June; Sockeye salmon - early July.
- 1H** **Remote release site**
- 1I** **Gill net area**
- 1J** **Purse seine area**
 Mainland, West side Kodiak, Shuyak & Moser/Olga Bay - 6/9 to 10/1.
 East side Kodiak, East side Afognak - 7/4 to 10/1.
- 1K** **Purse seine hook-off**
- 1L** **Set net sites**
 USFWS setnet uplands permit 5/15 to 9/15.
- For Codes 1C through 1L contact ADF&G for specific dates, locations and constraints.
- 2M** **Herring spawning (4/15 to 6/30)**
 Restrict boat traffic to essential minimum. Avoid damage to unloiled intertidal and subtidal algae and seagrass. Contact ADF&G for specific dates and locations.
- 3N, 3P** **Harbor seal and sea lion pupping (5/10 to 6/30)**
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 3O, 3Q** **Harbor seal and sea lion molting (8/15 to 9/15)**
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 5R** **Seabird colony (5/1 to 8/31)**
 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 (6/1 to 9/30)**
- 7HH** **Finfish harvesting**
- 7II** **Deer harvesting (8/1 to 1/7)**
- 7JJ** **Invertebrate harvesting**
- 7KK** **Bear harvesting (4/1 to 5/15 and 10/25 to 11/30)**
 For Codes 7Z through 7JJ contact ADF&G and Chenega Corporation for specific dates, locations, and constraints.



XXX Wide

/// Medium

--- Narrow

TTTT Very Light

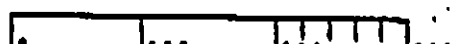
SI-13

ADEC Segment Length: 1971m

Map Key: KOD-1710

Name: Shaa Penland

Date: 4-4-90



REGION: KODIAK

SEGMENT: ST/K01-02-SI-014

SUBDIVISIONS: A (1 OF 1)

SHORELINE EVALUATION

SEGMENT ST/ K01-02-SI-014 SUBDIVISION A (1 OF 1) DATE 5/26/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

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

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

1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

ARCHAEOLOGICAL CONSTRAINTS:

If cultural resources are uncovered during shoreline treatment, stop work in the vicinity, mark the location of the find and contact Exxon's Cultural Resource Program immediately (564-3274 (Anchorage) or 229-1508 (24 hrs.)).

SHPO SIGNATURE: _____ DATE: _____

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 62 m: V.Light 1837m: No Oil 4233 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 is manual removal of mousse and oiled debris as annotated on attached sketch map.

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____

EXXON _____

NOAA _____

USCG _____

FOSC: _____ DATE: _____

KODIAK ECOLOGICAL CONSTRAINTS

- 1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
 1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
 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, 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 prior to treatment for consultation and/or permit application.
 AGENCY CONTACT PERSON: ADF&G Ken Middleton 267-2299
- 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, 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 Kotol Bay Hatchery release
 Pink salmon - late May, early June; Chum salmon - June; Sockeye salmon - early July.
- 1H Remote release site
 No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, 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 for confirmation and authorization.
 AGENCY CONTACT PERSON: ADF&G Larry Peltz 424-3214
- 1I Gill net area
 1J Purse seine area
 Mainland, West side Kodiak, Shuyak & Moser/Olga Bay (6/9 to 10/1)
 East side Kodiak, East side Afognak (7/4 to 10/1)
- 1K Purse seine hook-off
 1L Set net sites
 Contact ADF&G for confirmation - dates and locations may vary. 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 Larry Nicholson 424-4791
- 2M Herring spawning (4/15 to 6/30)
 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 Larry Nicholson 486-4791
- 30 Harbor seal and sea lion pupping (5/10 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. 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 9/1)
 Restrict air traffic and all disturbance to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates.
 AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
- 6U Recreation: Tent sites (6/1 to 9/15)
 6V Anchorages (6/1 to 9/15)
 6W Forest Service cabins (6/1 to 9/15)
 6X Lodge (6/1 to 9/15)
 6Y Special use destination
- 7Z Subsistence area: Salmon harvesting (6/1 to 9/30)
 Finfish harvesting
 Deer harvesting (6/1 to 1/7)
 Invertebrate harvesting
 Bear harvesting (4/1 to 5/15 and 10/25 to 11/30)
 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

SEGMENT ST 1 K101 ST-14 SUBDIVISION: A DATE 5. 24 - 90

USCG

NAME STAN SHIELDS SIGNATURE Stan Shields

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

THIS SUBDIVISION HAS A CURTAIN BOOM AND PARTS OF POM POM BOOMS, SORBENT PADS, PLASTIC BAGS, AND SCATTERED PIECES OF POM POMS THAT WOULD WARRANT A SMALL CREW GOING THROUGH SUBDIVISION PICKING UP DEBRIS AND COULD PICK UP SMALL MOUSSE PATCHY AREAS ALSO.

ADEC

NAME Francine W. Beavis SIGNATURE Francine W. Beavis

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

RECOMMEND MANUAL PICK-UP OF COLLECTOR HOLE MOUSSE CAUGHT BETWEEN BOULDER/CORALS.

Also, clean-up crew should police the segment where walkable to collect clean-up debris (boom material, pom poms) that is scattered throughout area.

LAND MANAGER

NAME Ray Burger AONR SIGNATURE Ray Burger

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

- Area being considered for addition to Shuyak Island State Park
- Available beach + campsite found just southwest of "Pocket 1" on OG map
- Pocket 1 + 2 require manual pick-up
- While retrieving containment boom strung across channel to Big Fort Island, crew can collect "tar splat" from area of pit #7
- Though map shows no oil for most of southern half of segment, there are mousse + tar splat for ~200' north of Pocket 1 + between pits #7 + 10 - also there are lightly stained logs in SUT2 south of pit #10 - NTR (25% stain)

SHORELINE OILING SUMMARY

REVISION NO. 04-13-90

JOG Mike Foget USCG Stan Shields SEGMENT ST/ K0101 / S1014
 BIO Heather Davis LAND REP Ray Berger DARK SUBDIVISION A (1 OF 1)
 EXXON ADEC N/A / From Bennis TIME 7:30 to 12:00 / 12:00-0000
 TEAM NO. 20 TIDE LEVEL -4.0 -4.0 / -4.0-2 DATE 5/29/90
 EST. SUBDIVISION LENGTH: 6466 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☐ Snow
 PLANDS DESCRIPTION: ☐ Grass ☒ Forest ☒ Rock steep rocky cliffs in the south. North is forested
 SURVEYED FROM: ☒ Foot ☐ Boat ☒ Helo WORKING DIRECTION: S 10 N
 SURFACE SEDIMENTS: R 15 % B 40 % C 25 % P 10 % G 10 % S 0 % M 0 % V 0 %
 SLOPE: Long 30 % Hang 65 % Vert 5 % WAVE EXPOSURE: ☒ Low ☒ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 70 m VL 1831 m NO 5065 m

SURFACE OIL

| CHARACTER | DISTRIBUTION | | | | OIL / FILM COLOR | | | | | IMPACTED ZONES | | | |
|------------------|--------------|---|---|---|------------------|---|----|----|----|----------------|---|---|---|
| | C | B | P | S | W | Y | OR | GR | BL | SU | U | M | L |
| ASPHALT PAVEMENT | | | | | | | | | | | | | |
| POOLED | | | | | | | | | | | | | |
| COVER | | | | | | | | | | | | | |
| COAT | | | X | X | X | | | | | X | | | |
| STAIN | | | | X | X | | | | | X | X | | |
| MOISTURE | | | X | X | | | | | | X | X | | |
| PATTIES | | | | | | | | | | | | | |
| TARBALLS | | | | X | X | | | | | X | | | |
| FILM | | | | | | | | | | | | | |
| NO OIL | | | | | | | | | | | X | X | |

PAVEMENT H F S sq. m by cm

PATTIES / TARBALLS 5 BAGS

NEAR SHORE SHEEN? (NO) BR RW SL TL

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

DID YOU COLLECT DEBRIS?

YES ☒ NO ☐

TYPE Pom. Pom

#BAGS 1

Photographs:

Roll No. ST-20-12/ST-20-13

Frames 31-38 / #1

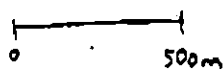
SUBSURFACE OIL

| PIT NO. | PIT DEPTH (cm) | SUBSURFACE OIL CHARACTER | | | | | OILED INTERVAL (cm) | BELOW | | OIL / FILM COLOR | | | | | PIT ZONE | | | | A N A | SHEEN (Y/N) | T | SURFACE - SUBSURFACE SEDIMENTS |
|---------|----------------|--------------------------|----|----|----|----|---------------------|-------|----|------------------|---|----|----|----|----------|---|---|---|-------|-------------|---|--------------------------------|
| | | OP | OR | OL | OF | NO | | UO | UC | W | Y | OR | GR | BL | SU | U | M | L | | | | |
| 1 | 25 | | | | | X | . | | X | | | | | | X | | | | | - | - | P, C, S, C |
| 2 | 40 | | | | | X | . | | X | | | | | | X | | | | | - | - | C, P |
| 3 | 30 | | | | | X | . | | X | | | | | | | X | | | | - | - | P, G |
| 4 | 30 | | | | | X | . | | X | | | | | | X | | | | | - | - | P, S |
| 5 | 25 | | | | | X | . | | X | | | | | | | X | | | | - | - | P, G, M, S |
| 6 | 30 | | | | | X | . | | X | | | | | | | X | | | | - | - | P, G, M, S |

REMARKS

The southern end of the segment contains rocky headlands w/ Pocket Boulder / Rock beaches and a medium wave exposure. The mid and Northern part of the segment contains high angle O/C/P beaches with a low wave exposure. In the southern end of the segment there is a rock outcrop which is

scale



Legend

- Boom
- stream
- steep rocky back shore
- Forest

Pickup Mousse/
SNARE Boom

Plastic bag
of oil oiled
debris

Removed
Pom Pom

Remove
Pom/Poms

Pickup TAR BALLS

Pick up
MOUSSE

2m x 50m CT/5
in Supra on
D/R

Pocket #1

2m x 40m CT/P with Mousse, located in
the Supra in a rock channel between an
Island rock outcrop and a rocky headland

2m x 10m CT/5 on D/R in the HITZ

0.2m x 10m ST/5 on Rock in the Supra ITZ

unsurveyed due to
inaccessibility by foot

1m x 10m CT/P w/ localized
mousse in the HITZ

Pocket #2

2m x 20m M3/P on
D/C in the HITZ

5m of
shore boom

1m x 1800m
CT/5 on B/C

eagles' Nest

Pom Poms + Debris

tar splashes
observed in
the HITZ

several tar balls observed
HITZ on Cobble

FL 0 NO 5065

AP 0 PO 0 Q CV 0 CT 20 ST 10 MS 20 PT 0 TB 1

Mike Fogel

AGENT ST/ 5A

VISION A

5/24/80

CHLISI

Aerom

Approx. Scale

Topographic Base

Chart

Unit

Height

Cover

Antenna Character

Antenna Altitude

Antenna Azimuth

Antenna Location(s)

Antenna Orientation(s)

Antenna Location(s)

Antenna Orientation(s)

END

Δ

Subsurface Oil

2 Δ

Surface Oil

T/C

Sub Distribution

T/B

Distribution

T/P

Distribution

T/S

Sub Distribution

2C

Vegetation

location, direction,
notes

SUBSURFACE OIL (CONTINUED)

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22/90

Segment ST / KOI - 01 Subdivision SI - 14 Date (mo / day / yr) 5/24, 26/90

Time (24 hr) 7:15, 11:20 Biologist H. Davis

(A) Substrate type and % of segments:
(1) Bedrock 15 (2) Boulder 40 (3) Cobble 25 (4) Pebble 18 (5) Sand 0 (6) Silt 2

(B) Overall % cover of biota (% of segment): Dense 30% Moderate 35% Low 35% (50%)

(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-20-12 / ST-20-13

Frames 31-38, #1

BARNACLES Continuous along the segment. Dense-Sparse distribution.

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

NOT PRESENT

5, 6

MYTILUS small, dense, patches on exposed areas. Wide sparse beds in protected area.

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

NOT PRESENT

5, 6

GASTROPODS limpets - mod/Sparse, Littorina - Dense/Sparse, Unella - dense, patchy groups.

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

NOT PRESENT

5, 6

FUCUS Patchy, Dense - Sparse

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

NOT PRESENT

5, 6

Wildlife Observations/ General Comments: See Ecology Map for comments.

Ecological Considerations: ST-1. There was an Eagle nest in a tree above the cliffs.
See Map for location. Pink and Coho Salmon spawn in stream #251-82-10090

Ecology Sketch Map
K01-01 SI-
5/24, 26/90
H. Davis

Pink + Coho
Salmon
261-82-10090

Big Fort District

Eagle
Nest

The southern end of the segment contains a rocky headlands with Boulder/Cobble pebble beaches. This area contained a lush algae cover and an extensive fauna. UTZ contained *Balanus glandula*, *Cuculus*, *Lithamalus*, *Mytilus*, *Notosomaea persona* + *scutum*, *Callinectes digitatus*, *Littorina sitkana* - some scutella, *Nucella* sp., *Porphyra*, *Endocladia*, *Halosiphonia* and some *Fucus*. MTZ dominant species were *Cladophrora*, *Porphyra*, *Ulva/Enteromorpha*, *Fucus*, *Oenothera*, *Rhodomenia*, *Rhodomenia*, *Halosiphonia*, *Gloiopeltis*, *Iridaea*, *Corallina*, *Acmea mitra*, *Notosomaea* sp., *Lamellaria*, *Tonicella*, *Katharina*, *Telia crassicornis*, *Anthopleura xanthogramma* + *ancistrum*, *Epiactis* (hooking?), *spirobites*, *membranoptera*, *Nereis*, *Scaleworms*, *Flatworms*, *Henricia*, *Leptasterias*, *Evasteria*, *Halichondria*, *Halidoria*? *prickleshadows* and *sculpins*. Dominant species in the LTZ: *Alaria*, *Pleuronophyes*, *Laminaria*, *Neodophylidium*, *Iridaea*, *Rhodomenia*, *Corallina*, *Acmea mitra*, *Tonicella*, *Katharina*, *Mopelia*, *Halichondria*, *Anthopleura xanthogramma* + *ancistrum*, *Telia crassicornis*, *prickles occurrals*, *Pyrosoma helianthoides*, *Evasteria* + *Thalassia*, *Eupentacta*, *Nucella lamellosa*, *Neptunaea* sp., *Scaevola* *dica* and *sculpins*.

The northern end of the segment is a more protected area with a high angle boulder/cobble/pebble beach over a silt/mud base. Both the flora and fauna in this area is reduced.

UTZ: Barnacles, limpets, littorines, small patches of *Mytilus*, *Porphyra*, *Endocladia*, and *Fucus*. MTZ: Barnacles, limpets, littorines, sparse beds of *Mytilus*, *Fucus*, *Gloiopeltis*, tuft of *Endocladia*, *Ulva*, *green*

filamentous algae, *diatom mats*, *Pagurus*, *Saxidomus*, *Prototrichia*, *Clinocardium* (shells) and *Macoma*. LTZ *Fucus*, *Filamentous green algae*, *Scytosiphon*, *Ulva*, *Henricia*, *Mytilus* (sparse beds), *Theraps*, *Saxidomus*, *Prototrichia*, *Clinocardium* (shells only), *Macoma*, *prickleshadows*, *Pagurus*, *Urechis*, and a few *Phoronids*.

Birds found in the area: 4 adult Eagles, Glaucous-winged gulls, Loons (sp?), Song sparrow, Varied Thrush, Pintails, Crows, Raven, Tufted Puffins.

Mammals: Deer tracks in UTZ, Bear scat, and Fox tracks.

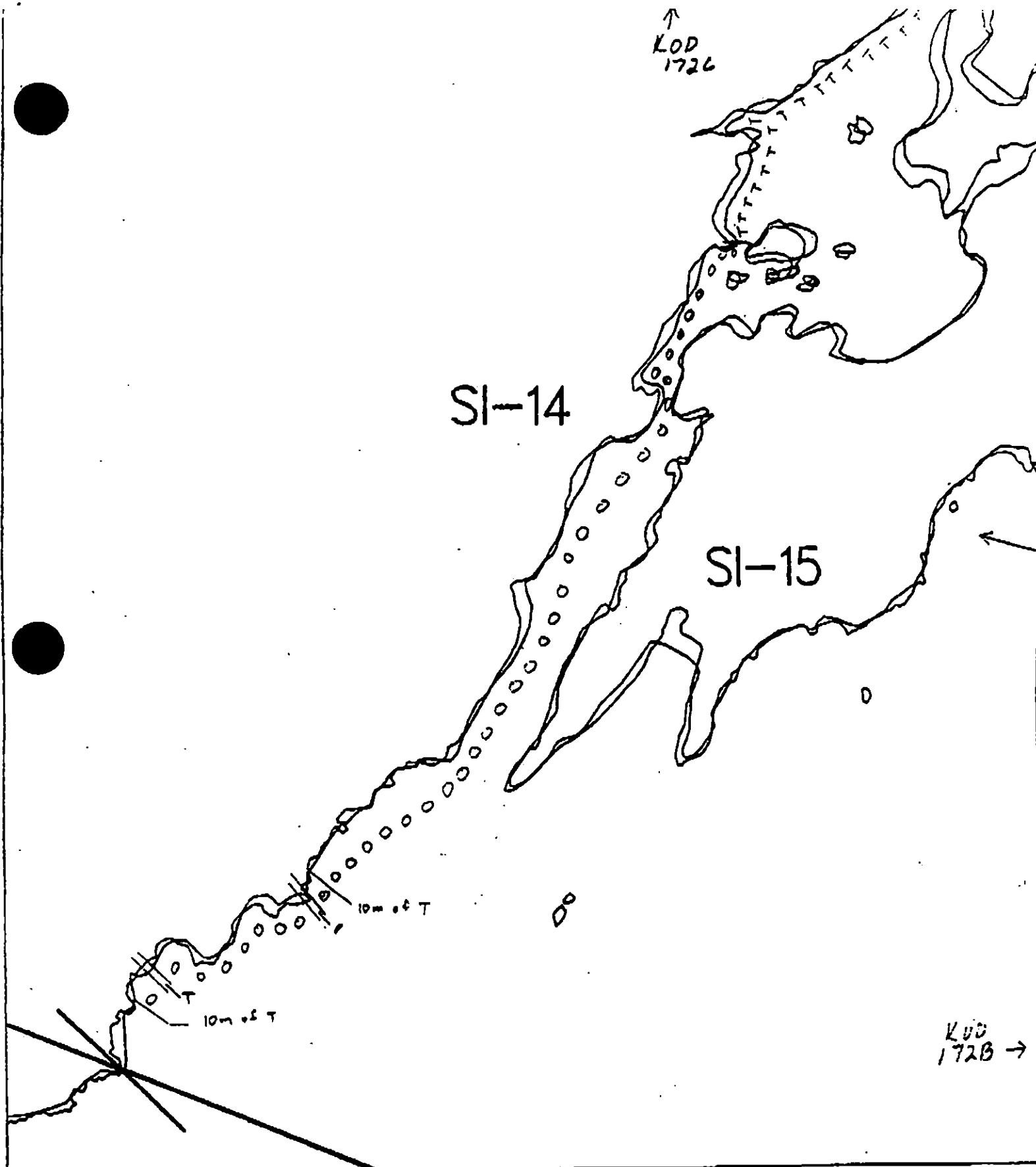
* The camera is now taking pictures at random as well as the desired photos.

Control No.
(Office Use Only)

PHOTOGRAPHY LOG

ROLL NO. ST-20-12 FROM 5/20 TO 5/26/90
TEAM NO. 20 PWS / KENAI / KODIAK / AK. PENINSULA

| FRAME
NUMBER | PHOTO-
GRAPHER | DATE | TIME | LOCATION/COMMENTS | |
|-----------------|-------------------|---------|--------------|---|-------|
| 1 | H. Davis | 5/20/90 | K9-21 KU 64 | North end of the segment facing south View along seg. | 5:10 |
| 2 | | | | Stain and mouse | 5:30 |
| 3 | | | | View across oil band facing south | 5:40 |
| 4 | | | | — | |
| 5 | | | | — | |
| 6 | | | | Tar and stain | 6:00 |
| 7 | | | | Stain, mouse and black sticky tar | 6:00 |
| 8 | | | | — | |
| 9 | | | | Coat + stain | 6:15 |
| 10 | | | | — | |
| 11 | | | | — | |
| 12 | | | | — | |
| 13 | | | | Coat and shiny black tar? | 6:20 |
| 14 | | | | — | |
| 15 | | | | — | |
| 16 | | | | — | |
| 17 | | | | Mouse, coat and splatter over large area UTZ | 6:30 |
| 18 | | | | " " " | 6:40 |
| 19 | | | | " " " view across oil | 6:45 |
| 20 | | | | Pit #15 oil and mouse to 9 cm. UTZ | 7:00 |
| 21 | | | | Mouse and coat splash zone w/ grass | 7:30 |
| 22 | | 5/21/90 | K0909 C007 | Dead Eagle | 16:45 |
| 23 | | | | " " | 16:45 |
| 24 | | | | Oil and mouse in UTZ | 17:00 |
| 25 | | | | View across oiled area | 17:10 |
| 26 | | | | Pit #5 | 17:30 |
| 27 | | | | — | |
| 28 | | 5/22/90 | K1008 AS04 | View along the segment | 5:40 |
| 29 | | | | Mouse, stain, coat in crevice UTZ | 6:30 |
| 30 | | | | " " " " " | 6:30 |
| 31 | | 5/24/90 | K01-01 ST-14 | Coat in UTZ with spruce needles, stem | 8:00 |
| 32 | | | | " " " | 8:10 |
| 33 | | | | View across oiled area of segment | 8:15 |
| 34 | | | | View across stained, coated, and mouse area | 8:25 |
| 35 | | | | Boom and Fishing Net. Segment to Big Fort. | 12:30 |
| 36 | | | | " " " across channel | 12:30 |
| 37 | | 5/26/90 | | Oiled rocks in Bay, Pom Pom and coated Rock UTZ | 11:40 |
| 38 | | | | Mouse in crevice w/ stem UTZ | 12:15 |



XXX Wide
 /// Medium
 --- Narrow
 TTTT Very Light

KØ1Ø1-SI-14

ADEC Segment Length: 6966m

1. 1.00 1.00 1.00 1.00



Map Key: KOD-172a
 Name: Mike Foget
 Date: 5/24/90

NT

SI-13

KOD 172A



XXX Wide

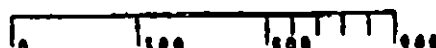
//// Medium

--- Narrow

TTTT Very Light

KØ1Ø1-SI-14

ADEC Segment Length: 6966m



Map Key: KOD-172c

Name: Mike Foget

Date: 5/24/90



SHORELINE EVALUATION

SEGMENT ST/ K01-02-SI-014 SUBDIVISION A (1 OF 1) DATE 5/26/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

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

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

1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

ARCHAEOLOGICAL CONSTRAINTS:

If cultural resources are uncovered during shoreline treatment, stop work in the vicinity, mark the location of the find and contact Exxon's Cultural Resource Program immediately (564-3274 (Anchorage) or 229-1508 (24 hrs.)).

SHPO SIGNATURE: Charles E. Hansen

DATE: June 19, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 62 m: V.Light 1837m: No Oil 4233 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

 No Treatment Recommended

X Treatment Recommended

X Manual Pickup

 Bioremediation

 Tarmat Removal

 Snare/Absorbent Booms

 Oil Snares (pom poms)

 Absorbents (pads, rolls, etc)

 Spot Washing: Wands

 Beach Cleaner

 Other (see comments)

COMMENTS: Recommended treatment is manual removal of mousse and oiled debris as annotated on attached sketch map.

TAG COMMENTS:

TAG APPROVAL DATE: 6/16/90.

ADEC Ron Messing

EXXON Andy Tate

NOAA Joseph Talbot

USCG G.A. Brewer

FOSC: My L

DATE: 6-27-90

Nike Foget

ENT ST/ SP-10

VISION A

5124 80

KLISI

row

rot. Scale

/Sole Body

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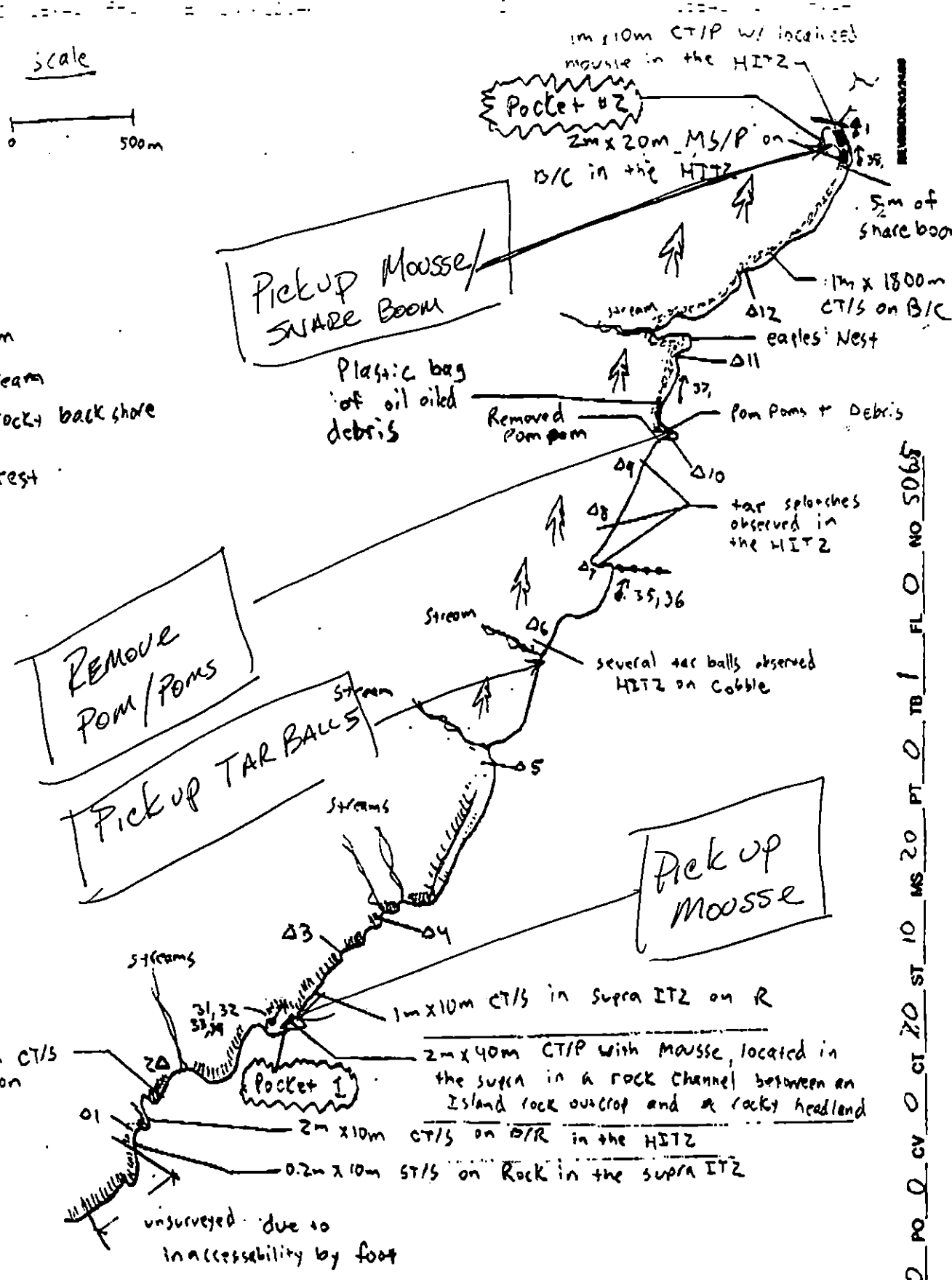
SKETCH P



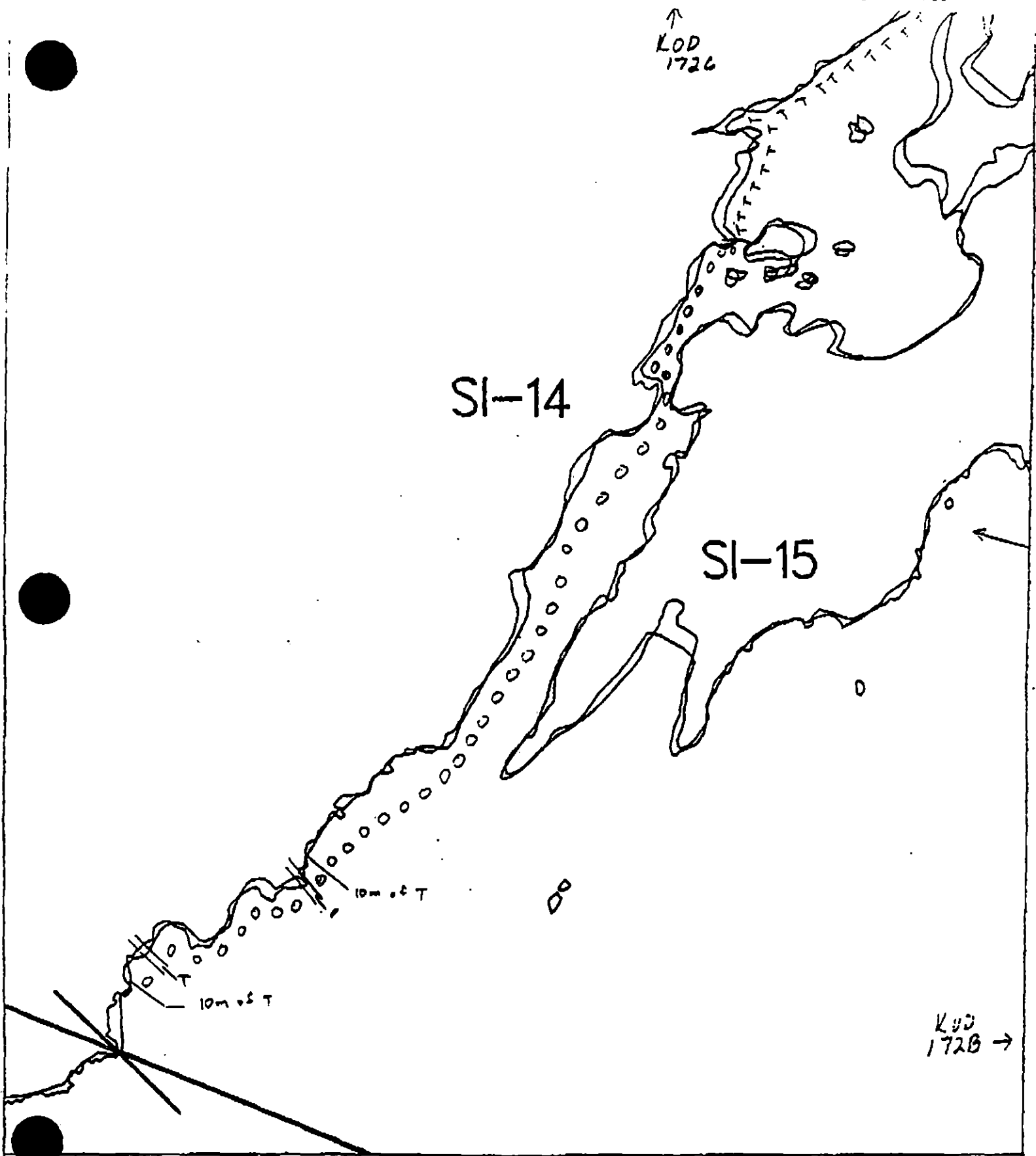
Scale
0 500m

Legend

- Boom
- stream
- steep rocky back shore
- Forest



Factor Length (m): AP 0 PO 0 CV 0 CT 20 ST 10 MS 20 PT 0 TB 1 FL 0 NO 5065



XXXX Wide
 /// Medium
 --- Narrow

KØ1Ø1-SI-14

ADEC Segment Length: 6966m



Map Key: KOD-172a

Name: Mike Foget

Date: 5/24/90

NT

SI-13

KOD 172A



XXXX Wide

//// Medium

--- Narrow

TTTT Map Light

KØ1Ø1-SI-14

ADEC Segment Length: 6966m

Map Key: KOD-172c

Name: Mike Fogel

Date: 5/24/90



ADDENDUM: SUBDIVISION CONSTRAINTS

SEGMENT K01-01-SI-014 SUBDIVISION A (1 of 1)

WORK WINDOW

| | |
|---|--------|
| Manual Pickup Less Than 400m From Active Nest | CLOSED |
| Manual Pickup More Than 400m From Active Nest | OPEN |

ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

| | |
|---------------------|---|
| 1A,1B Salmon Stream | ADF&G catalogued anadromous stream (251-82-10090) is more than 100m from work site. No constraint to manual pickup. |
| 5T Bald Eagle Nest | USFWS 4/9/90 map indicates an active nest in Subdivision A. Closed to manual pickup within 400m of active nest. No constraint to manual pickup more than 400m from active nest. |

OTHER ECOLOGICAL CONSIDERATIONS

No disturbance to stream bed or banks. Restrict air traffic and all disturbance to essential minimum. No personnel or boat traffic within 400m of active nests. Air approach and takeoff from and to seaward only; maintain 400m horizontal, 300m vertical distance from active nests. Avoid any unnecessary disturbance or damage to uncollected biota and substrate.

FOSC

R. J. Gaudin

Date

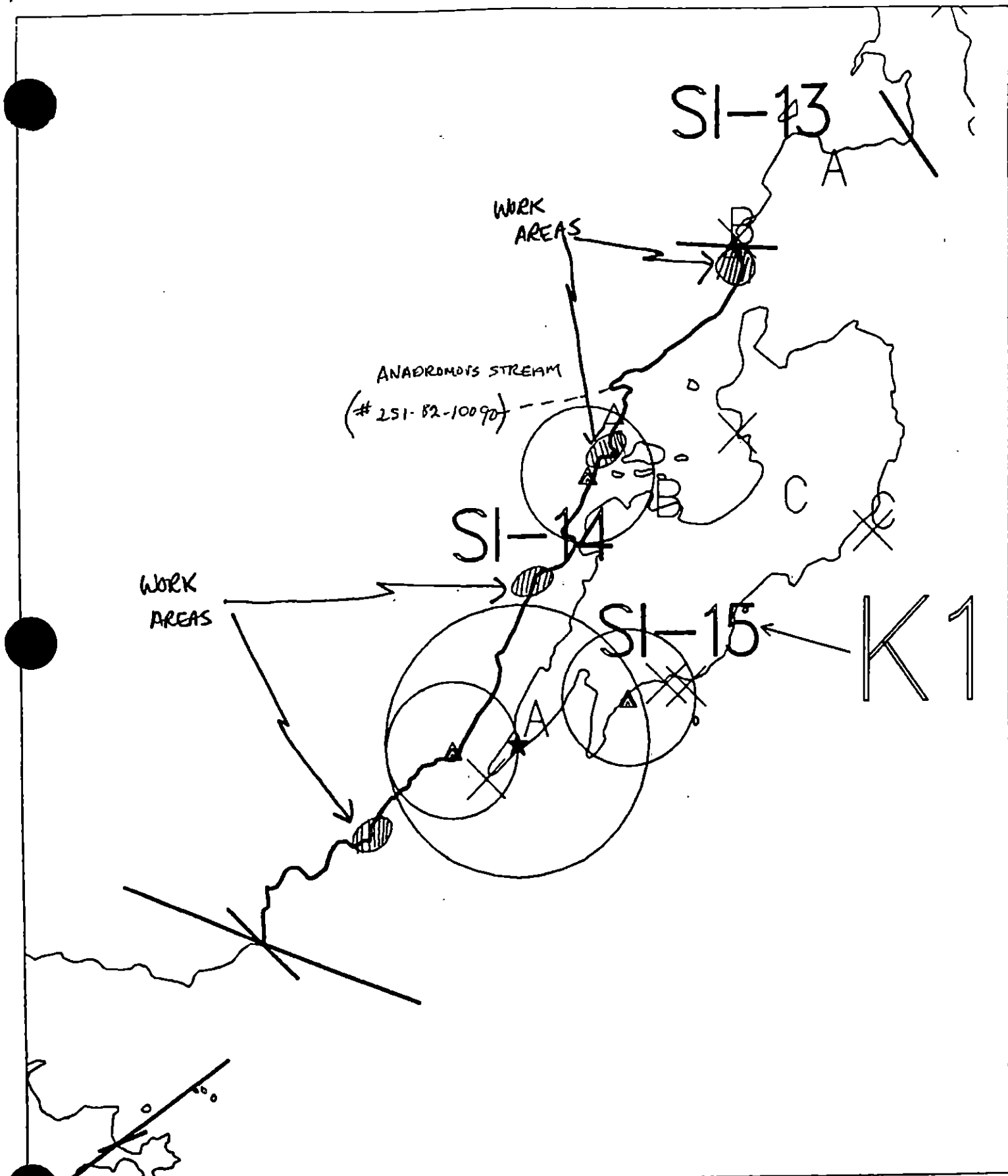
6/29/90

Prepared by

R. R. Cuthbert

Date

6-28-90



Exxon Company, USA
Map Key: KOD-SI-14



ECOLOGY MAP
SEGMENT K1-1 SI-14
SUBDIVISION A (L of L)
METERS

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

SHORELINE EVALUATION

DOCUMENT ST/ K01-02-SI-014 SUBDIVISION A (1 OF 1) DATE 5/26/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

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

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

1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

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

ARCHAEOLOGICAL CONSTRAINTS:

If cultural resources are uncovered during shoreline treatment, stop work in the vicinity, mark the location of the find and contact Exxon's Cultural Resource Program immediately (564-3274 (Anchorage) or 229-1508 (24 hrs.)).

SHPO SIGNATURE:

DATE:

CALLING CATEGORIZATION:

de 0 m: Medium 0 m: Narrow 62 m: V.Light 1837m: No Oil 4233 m

Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

No Treatment Recommended.

X Treatment Recommended

X Manual Pickup

Bioremediation

Tarmat Removal

Snare/Absorbent Booms

Oil Snares (pom poms)

 Absorbents (pads, rolls, etc)

Spot Washing: Wands

Beach Cleaner

Other (see comments)

COMMENTS: Recommended treatment is manual removal of mousse and oiled debris as annotated on attached sketch map.

TAG COMMENTS:

APPROVAL DATE:

ADEC *Ron Mason's R-100*

EXXON ANDY TGAZ

NOAA Joseph Tallent

USCG *G. A. Bente*

FOSC:

DATE: 6-27-70

ANADROMOUS FISH STREAM ASSESSMENT

REGION: KODIAK

SEGMENT: ~~ST/SI-014~~ ^{KI-1} K01-01-SI-014

SUBDIVISION: A

STREAM NO: 251-82-10090

ANADROMOUS FISH STREAM EVALUATION

SEGMENT K1-1-SI-014 STREAM NO: 251-82-10090 DATE 5/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

- 1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
- 1B Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)
- 5T All Bald Eagle nests (3/1 to 6/1)
- Active Bald Eagle nests (3/1 to 9/1)

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

ARCHAEOLOGICAL CONSTRAINTS:

If cultural resources are uncovered during shoreline treatment, stop work in the vicinity, mark the location of the find and contact Exxon's Cultural Resource Program immediately (564-3276 (Anchorage) or 229-1508 (24 hrs.)).

SHPO SIGNATURE: _____ DATE: _____

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: Recommend manual pick up of mousse tarballs and patties as indicated on attached sketch map. Consult ADF&G (regarding stream) and USFWS (regarding eagle nest) for appropriate work window.

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____
EXXON _____
NOAA _____
USCG _____

FOSC: _____ DATE: _____

KODIAK ECOLOGICAL CONSTRAINTS

- 1A** **Salmon stream mouth - fry outmigration (4/15 to 7/31)**
1B **Salmon stream mouth - spawning (7/15 to 9/10; PEAK 8/15)**
 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** **Kotot Bay Hatchery release**
 Pink salmon - late May, early June; Chum salmon - June; Sockeye salmon - early July.
- 1H** **Remote release site**
- 1I** **Gill net area**
- 1J** **Purse seine area**
 Mainland, West side Kodiak, Shuyak & Moser/Olga Bay - 6/9 to 10/1.
 East side Kodiak, East side Afognak - 7/4 to 10/1.
- 1K** **Purse seine hook-off**
- 1L** **Set net sites**
 USFWS setnet uplands permit 5/15 to 9/15.
- For Codes 1C through 1L contact ADF&G for specific dates, locations and constraints.
- 2M** **Herring spawning (4/15 to 6/30)**
 Restrict boat traffic to essential minimum. Avoid damage to uncoiled intertidal and subtidal algae and seagrass. Contact ADF&G for specific dates and locations.
- 3N, 3P** **Harbor seal and sea lion pupping (5/10 to 6/30)**
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 3O, 3Q** **Harbor seal and sea lion molting (8/15 to 9/15)**
 Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts.
- 5R** **Seabird colony (5/1 to 8/31)**
 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 (6/1 to 9/30)**
- 7HH** **Finfish harvesting**
- 7II** **Deer harvesting (8/1 to 1/7)**
- 7JJ** **Invertebrate harvesting**
- 7KK** **Bear harvesting (4/1 to 5/15 and 10/25 to 11/30)**
 For Codes 7Z through 7JJ contact ADF&G and Chenega Corporation for specific dates, locations, and constraints.

FIELD SHORELINE COMMENT SHEET

18/25

014

ASGT# (BIG FORT)

SEGMENT ST/

SI-004

SUBDIVISION: 281-82-10090

DATE 01 MAY 90

USCG

NAME Kerwin L. Dreher

SIGNATURE CWO K. L. Dreher

☒ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

~~ADEC~~ ~~ADFG~~ ADFG

NAME EDWARD W. WEISS

SIGNATURE Edward W. Weiss

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

MANUAL PICKUP OF TABLETS/POTTIES ON SOUTH SIDE OF LAGOON UPPER TRAP AREA RECOMMENDED.

~~LAND MANAGER~~ ~~ADNR~~ ADNR

NAME Mike [Signature]

SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

This segment contains state lands proposed for future inclusion into Shuyak Island State Park and is an area of high recreational potential as well as providing wildlife habitat. Recent sign of brown bear, deer and one active eagle were observed. Also observed approximately 1/2 mi. south of this stream was an estimated 400' of yellow boom partially ADFG. This was left from Exxon cleanup.

SHORELINE OILING SUMMARY (ANAO)

22/25
REVISION NO. 041300

OG CAL LARSON USCG PREHER, CWE SEGMENT ST/ SI 004
 BIO KEN CRITCHLOW LAND REP MIKE GOODWIN STREAM 251-02 00901 (2 OF 2)
 EXXON DARLHL YVES ADFG ED. WEISS TIME 11:30 10/2/90
 TEAM NO. 74 TIDE LEVEL +0.5 FT DATE 5/1/90
 EST. SUBDIVISION LENGTH: 60 m ☐ Sun ☐ Clouds ☐ Fog ☒ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R 0 % B 0 % C 40 % P 30 % G 20 % S 0 % M 0 % V 0 %
 SLOPE: Lang 60 % Hang 30 % Vert 10 % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 2 m N 0 m VL 100 m NO 0 m

SURFACE OIL

| CHARACTER | DISTRIBUTION | | | | OIL / FILM COLOR | | | | | | | | IMPACTED ZONES | | | |
|------------------|--------------|---|---|---|------------------|---|---|---|---|---|---|---|----------------|---|---|---|
| | R | B | P | S | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | SU | U | M | L |
| ASPHALT PAVEMENT | | | | | | | | | | | | | | | | |
| POOLED | | | | | | | | | | | | | | | | |
| COVER | | | | | | | | | | | | | | | | |
| COAT | | | | | | | | | | | | | | | | |
| STAIN | | | | | | | | | | | | | | | | |
| MOUSSE | | | | | | | | | | | | | | | | |
| PATTIES | | | | | | | | | | | | | | | | |
| TARBALLS | | | | | | | | | | | | | | | | |
| FILM | | | | | | | | | | | | | | | | |
| NO OIL | | | | | | | | | | | | | | | | |

PAVEMENT H F S 0 sq. m by 0 CT.

PATTIES / TARBALLS 3 BAGS

NEAR SHORE SHEEN? ☒ NO BR RW SL TL

| OILED DEBRIS | AMOUNT | | |
|--------------|--------|----|----|
| | SM | MD | LG |
| Logs | | | |
| Vegetation | | | |
| Trash | | | |
| Debris | | | |

Did you collect DEBRIS

☐ YES ☒ NO

TYPE 0

#BAGS 0

Photographs:

Roll No. 0

Frames 0

SUBSURFACE OIL

| PIT NO. | PIT DEPTH (cm) | SUBSURFACE OIL CHARACTER | | | | | OILED INTERVAL (CM) | BELOW | | OIL / FILM COLOR | | | | | | | | PIT ZONE | | | | A N A | SHEEN (Y/N) | ↓ | SURFACE SUBSURFACE SEDIMENTS |
|---------|----------------|--------------------------|----|----|----|----|---------------------|-------|----|------------------|---|---|---|---|---|---|---|----------|---|---|---|-------|-------------|---|------------------------------|
| | | OP | OR | OL | OF | NO | | VO | UC | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | SU | U | M | L | | | | |
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COMMENTS NO PITS DUG DUE TO LACK OF OIL PENETRATION.

REVIEWED 7W DATE 5/3/90

STREAM 251-82-10070

DATE 5 / 1 / 90

- ☐ H Arrow
- ☐ Approx. Scale
- ☐ Seg/Sub Entry
- ☐ On Del.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est. Hrs./Lm.
- ☐ SSL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ Pk Location(s)
- ☐ Photo Location(s)

FX - No Subsurface Oil

2A
PPI - Suburban Oil . .

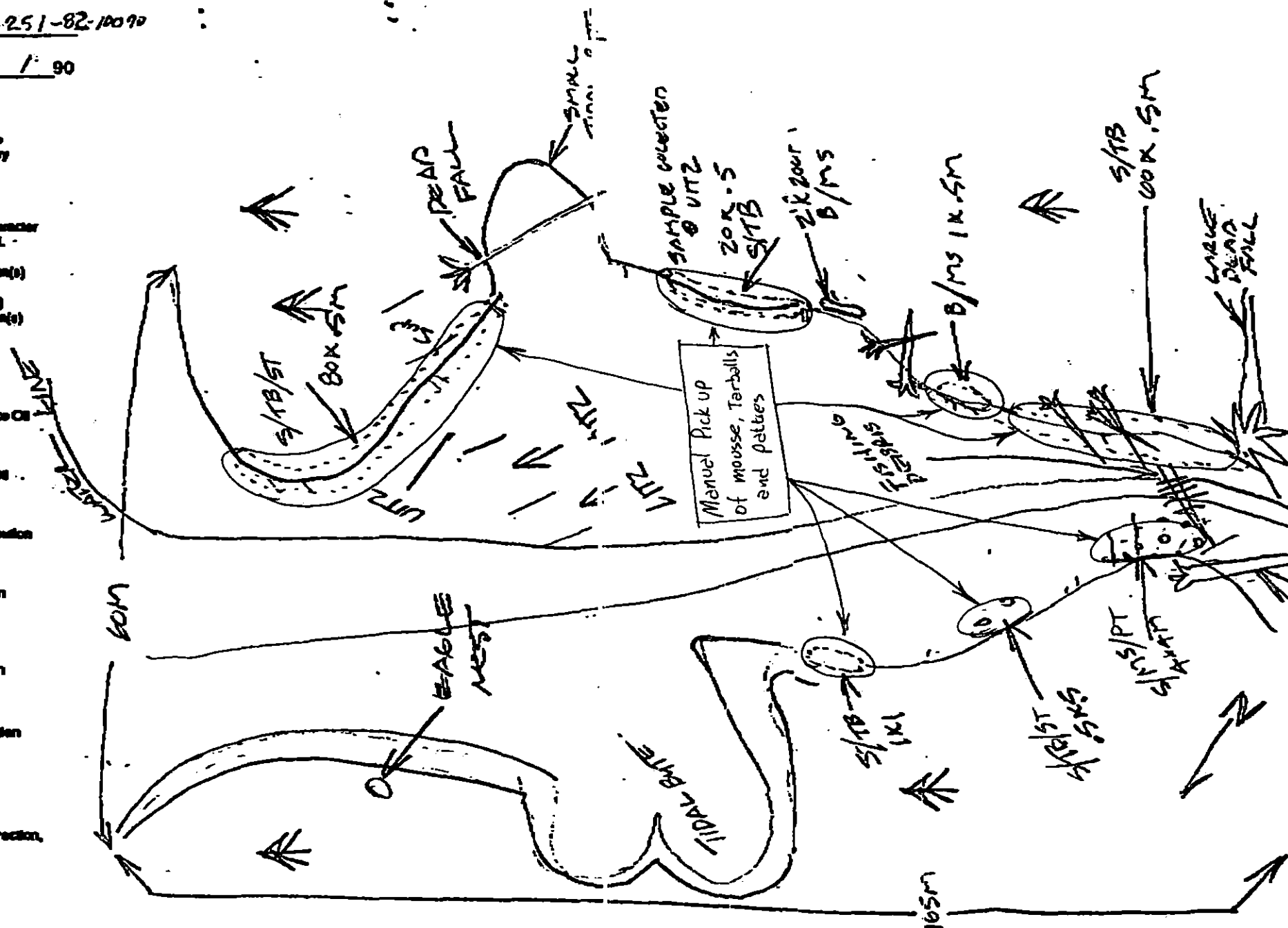
CTAC
Continuous Distribution

Broken Dispositions

Patchy Distribution

Selected Distribution

Dried Vegetables

**Photo location, direction,
and number**

Oil Character Length (m): AP _____ PO _____ CV _____ CT _____ ST 20 MS 74 PT _____ TB 74 FL _____ NO _____

1953-04-26-1953

25/25

ANADSSAT

ADFG MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS GS DS TS AVS SCMA MMS PTA 2 REGION: PWS KP, CI KAP

METHOD: Aerial Ground Boat

3 DATE: 5/1/90 16 HIGH TIDE TIMES: 1 21 TEAM RECORDER: F. Weiss

4 START TIME: 1105 18 HIGH TIDE HTS: 1 22 OBSERVERS: KAL LARSON, K. CATCHLOW

5 STOP TIME: 1220 17 LOW TIDE TIMES: 1504 23 AGENCY: ADFG/USWC/EXXON/A

6 SEGMENT #: SI004-14 19 LOW TIDE HTS: .5 24 PHOTOS TAKEN: Y

7 STATION #: _____ 10 TIDE HT AT SURVEY: _____ Roll #: _____ Frames: _____

8 K-UNIT: K0101 Ebb Slack Flood Slack 25 VIDEO TAKEN: Y TAPE: _____

9 STAT AREA: _____ 20 USCG QUAD: _____ Starts: _____ Ends: _____

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

12 SOURCE: Map Loran 011 _____

13 LOCATION: ANDREAN BAY, SHUYAK ISLAND Sediment _____

14 DESCRIPTION: _____ Biological _____

Water _____

EXTENT OF OIL

| | SHORELINE | | | | STREAM | | | |
|----------------------|-----------|-----|---|----|---------|---|---|----|
| | L | M | H | % | L | M | H | % |
| 27 SURFACE COVERAGE | 250 | 1-2 | | 3% | 100 | 1 | | 5% |
| 28 SURFACE THICKNESS | | | | | | | | |
| 29 PENETRATION | SURFACE | | | | SURFACE | | | |

30 OVERALL OIL IMPACT: N Y L N H

31 OIL TYPE: Pooled House Tar Asphalt Sticky Stain

32 OILED DEBRIS: Y N

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

34 WAVE EXPOSURE: High Moderate Low Marsh

35 SUBSTRATE TYPE: Bedrock _____ Boulder 25 Cobble 35

Gravel 40 Sand _____ Mud/silt _____

36 CATALOGED ANAD. FISH SKELETAL Y N

37 CATALOG #: 251-81-10090

38 STREAM NAME: BIG FORT CREEK

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: SPORADIC SPLASHES/PARTICLES AROUND SOUTH BANK OF LAGOON
BAND ~ 350 M X 1.5 M < 10% COVERAGE WITHIN BAND.
1 BAND IS SPORADIC AT BEST RANGING DOWN TO SALASHY,

2A/25

Seg ID: SI-⁰¹⁴004 Subdiv: 251-8²-10090
Survey Date: 5/1/90
Comments by: Ken Critchlow

This site was lightly oiled along the upper edge of the UITZ. Tarballs, patties and stern were commonly observed along the south side of the stream. Tarballs were occasionally observed on the north side of the stream.

The intertidal biota, while healthy and unoiled, was not particularly abundant. The oiled substrate was only populated by a few bivalves.

The only apparent ecological constraints would be the presence of an active bald eagle nest on the north bank of the stream. Cleanup activity would certainly disturb the birds.

KR Critchlow

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