AFS 256-40-10010
STURGEON RIVER/LAGOON, KODIAK.
SITE Kb-1

256-40-401
-402

ACE 1852640

3m x 180m 2-6"
x 400m
x 300m
6m x 200m

SHORELINE EVALUATION

SEGMENT ST/ K06-34-SL-01 SUBDIVISION A (1 OF 1) DATE 4/9/90

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 E. Holmes DATE: April 14, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 97 m: No Oil 272 m
Subsurface Oil Observed: Yes____ No X Maximum Depth_____

RECOMMENDATIONS:

_____No Treatment Recommended	_____Snare/Absorbent Booms
X Treatment Recommended	_____Oil Snares (pom poms)
X Manual Pickup	_____Absorbents (pads,rolls,etc)
_____Bioremediation	_____Spot Washing:_____Wands
_____Tarmat: _____Breakup	_____ Beach Cleaner
_____Removal	_____Other (see comments)

COMMENTS: Manual pick up of mousse and patties. Work restricted to before 7/10.

TAG COMMENTS:

TAG APPROVAL DATE: 4/14/90.
ADEC JOHN BAUER
EXXON ANDY TER
NOAA Burl Wescott
USCG G.A. REITER FOSC: DATE: 5-1-90

ACE 1852678+15

KODIAK ECOLOGICAL CONSTRAINTS

SL-01-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	**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 unoiled 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.

ACE 1852679

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / Kod-34 SL-01 SUBDIVISION: KG-34-SL-1A DATE 4-4-90

USCG
NAME D.D Haven Jr. GM3, USCG SIGNATURE D D Haven Jr

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED
COMMENTS

all areas less than 1% coverage. Cannot justify treatments

ADEC
NAME Francine J. Bennis SIGNATURE Francine J Bennis

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED
COMMENTS

Very sporadic MS/AS patties are present in this area of Sturgeon Lagoon. A small clean-up crew should also cruise this segment & pick-up the retrievable oil.

SSAT field map should accompany clean-up crew

LAND MANAGER
NAME JOHN P. HARDISTER SIGNATURE John P. Hardister USFWS

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED
COMMENTS

Concur with ADEC representative. JPH

John Merrick John merrick Koniag Inc

Concur - if a team in the area a small effort here would be beneficial

REVISION NO. 03/21/90

ACE 1852680

SHORELINE OILING SUMMARY

REVISION NO. 03/22/90

OG Acton USCG Haven SEGMENT ST/ KG-34-SL-1
BIO Davis LAND REP USFWS Hardesiger SUBDIVISION KG-34-SL-1A
EXXON Avery ADEC Bennis TIME 5:20 to 5:45
TEAM NO.: 20 TIDE LEVEL: +1.5 to +1.5 DATE 4 / 4 / 90
EST. SUBDIVISION LENGTH: 410 m ☐ Sun ☐ Clouds ☐ Fog ☐ Rain ☒ Snow
UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock
SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: N to S
SURFACE SEDIMENTS: R 0 % B 0 % C 20 % P 20 % G 20 % S 10 % M 30 % 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 100 m NO 310 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR					IMPACTED ZONES			
	/C	/B	/P	/R	SHN/BR	DBL/RW	GY/SL	DKBR/TL	LTBR/	SU	UI	MI	LI
ASPHALT PAVEMENT													
POOLED													
COVER													
COAT				✓		✓						✓	
STAIN													
MOUSSE			✓					✓				✓	
PATTIES			✓					✓				✓	
TARBALLS													
FILM													
NO OIL										✓	✓		✓

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 N/A
#BAGS 0

Photographs:
Roll No. 20-3
Frames 16-18

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CM)	BELOW		OIL / FILM COLOR					PIT ZONE				ANA	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UO	UC	SHN/BR	DBL/RW	GY/SL	DKBR/TL	LTBR/	SU	UI	MI	LI		
1	30					✓	-										✓			mgc
2	40			-		✓	-										✓			mgc
3	30					✓	-										✓			mgc
4	40					✓	-										✓			mgc
							-													
							-													

COMMENTS A 2m band of very sporadic CT/S + MS/P extended approx. 100m into this section from KG-34-SL-2A. Band is < 1% coverage. Additionally, 2 mousse patties approx 12cm in diameter and 2 cm in thickness were observed at the south end of the section. Walked entire section.

Page 1 of ____

REVIEWED BAT DATE 9 APR 90

ACE 1852681

OG Acton

SEGMENT ST/ K6-34-SL-1

SUBDIVISION K6-34-SL-1A

DATE 4 / 4 90

SKETCH MAP

N ↑

Approx Scale

1cm = 50m

CHECKLIST

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

LEGEND

1 △

Pe - No Subsurface Oil

2 ▲

Pn - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/2

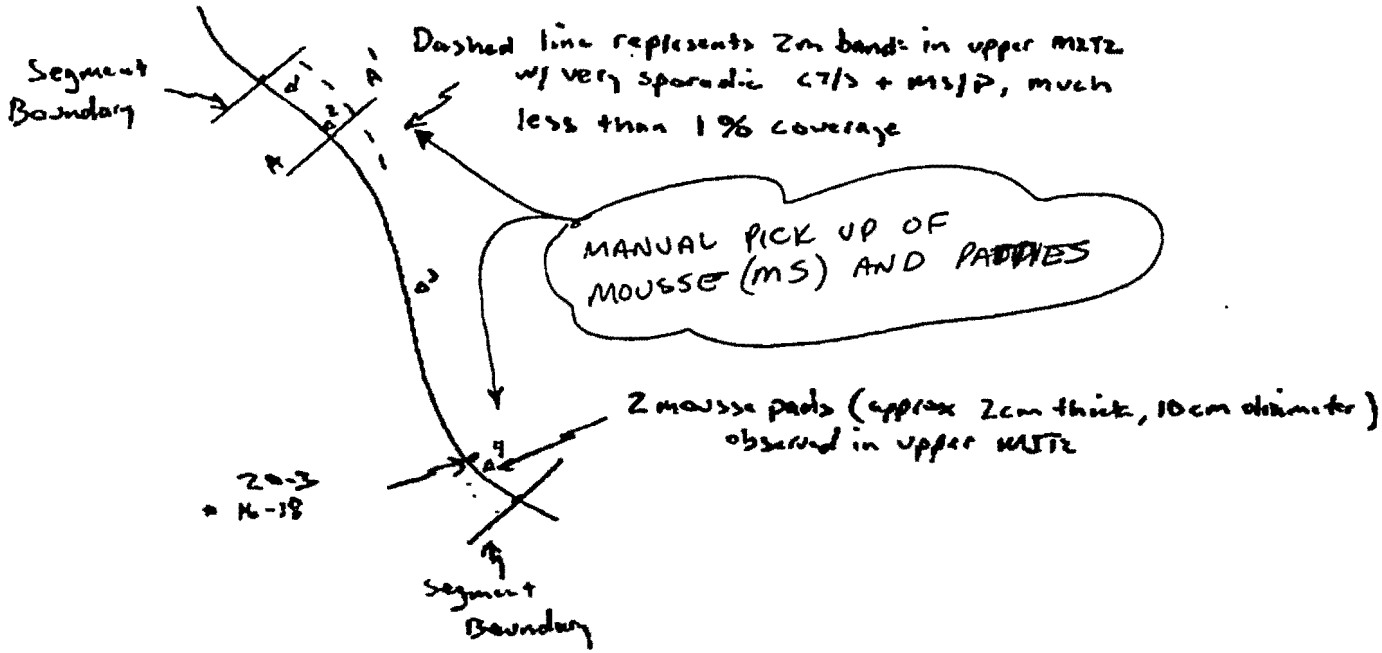
Patchy Distribution

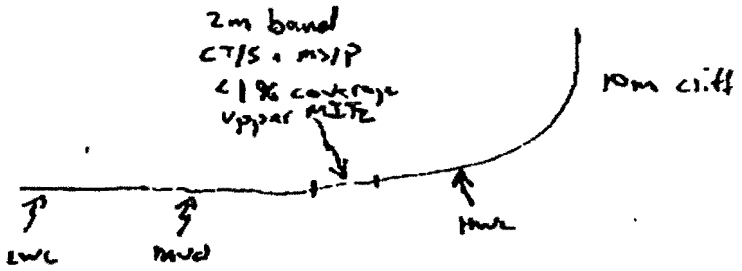
CT/S

Splashed Distribution

Oiled Vegetation

Photo location, direction, and number





Oil Character Length (m): AP 0 PO 0 CV 0 CT 100 ST 0 MS 100 PT 0 TB 0 FL 0 NO 310

REVISION:03/2000

ACE 1852682

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22/90

Segment ST / KO6-34 Subdivision SL-01A Date (mo / day / yr) 4-4-90

Time (24 hr) 17:00 Biologist W. Davis

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

(B) Overall % cover of biota (% of segment): Dense ____ Moderate 30% Low 70% (25%)

(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-20-3
Frames 16 - 18

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	X	3	X	X	3	3	X	X	NOT PRESENT
4	4	4	4	X	4	X	X	4	4	X	X	1,2,5,6
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	X	2	
3	3	X	3	3	X	3	3	X	X	X	X	NOT PRESENT
4	4	X	4	4	X	4	4	X	X	X	X	1,5,6
5	5	X	5	5	5	5	5	X	5	5	5	
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	
3	3	3	3	X	3	3	X	X	X	3	3	NOT PRESENT
4	4	4	4	X	4	4	X	X	X	4	4	1,2,5,6
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

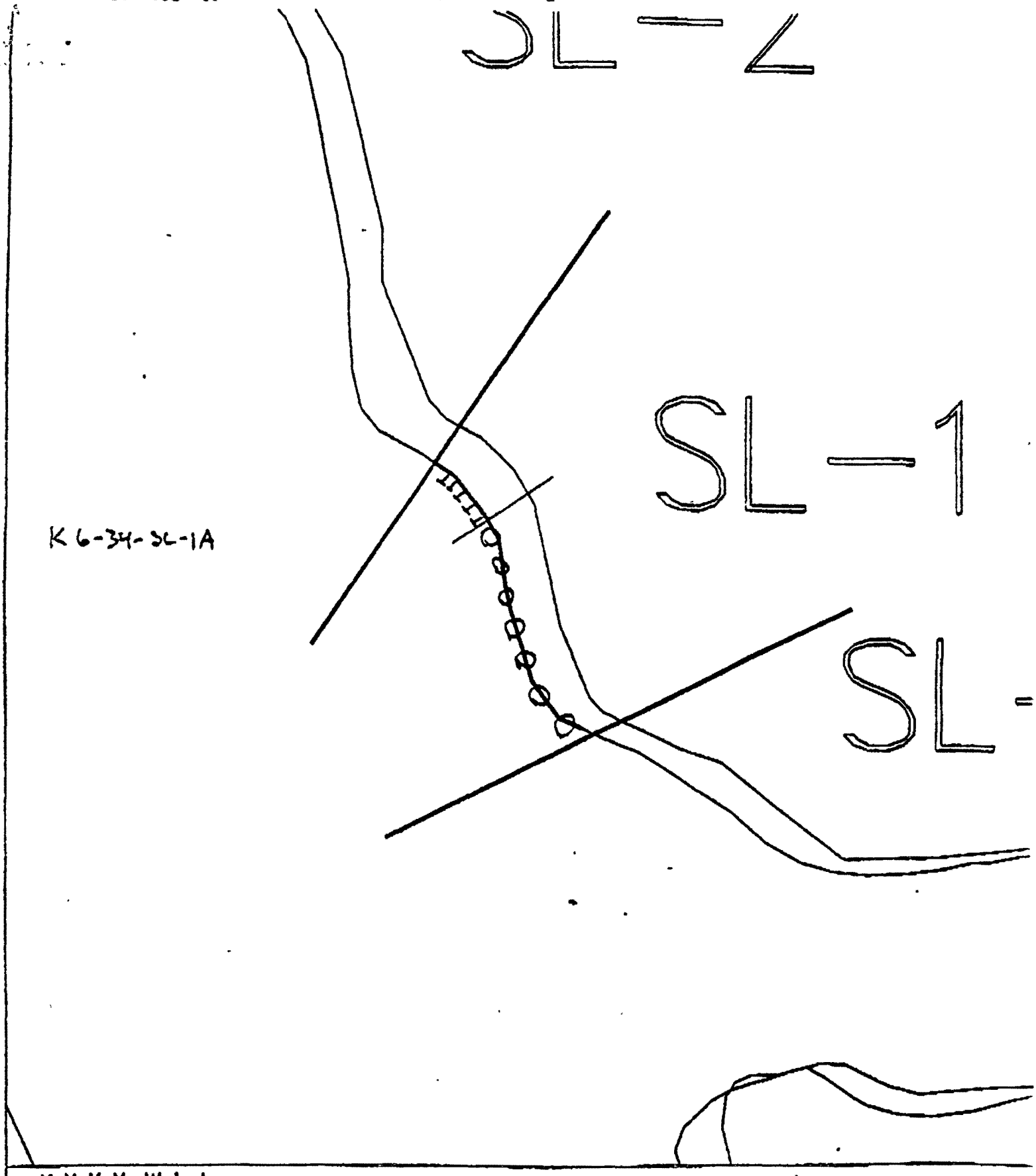
Dense			Moderate			Sparse			Rare			
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L	
2	2	2	2	2	2	2	2	2	2	2	2	
3	3	3	3	X	3	3	X	X	X	3	3	NOT PRESENT
4	4	4	4	X	4	4	X	X	X	4	4	1,2,5,6
5	5	5	5	5	5	5	5	5	5	5	5	
6	6	6	6	6	6	6	6	6	6	6	6	

Wildlife Observations/ General Comments: Fewer mussle beds and they are further out. Glaucous winged Gulls are on the beds. 2 adult eagles seen. (1 Flying 1 standing on mud flat area) 10-15 Pintails, 10± Glaucous winged Gulls.

Ecological Considerations: (1A, 1B, 8AA) This section is part of an estuary area that provides food shelter and breeding habitats to many species of birds mammals and fish.

ASC # 256-40 # 10010

ACE 1852683



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

SL-1

ADEC Segment Length: 369m

0 100 200 300
METERS

K6-34-SL-1A
Map Key: GOA-274
Name: Acton
Date: 4-4-94
Date Entered:

ACE 1852684 -IS

SHORELINE EVALUATION

SEGMENT ST/ K06-34-SL-02 SUBDIVISION A (1 OF 1) DATE 4/7/90

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:
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: Charles E. Holmes DATE: April 14, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 428 m: No Oil 348 m
Subsurface Oil Observed: Yes____ No X Maximum Depth_____

RECOMMENDATIONS:

_____No Treatment Recommended	_____Snare/Absorbent Booms
X Treatment Recommended	_____Oil Snares (pom poms)
X Manual Pickup	_____Absorbents (pads,rolls,etc)
_____Bioremediation	_____Spot Washing:_____Wands
_____Tarmat: _____Breakup	_____ Beach Cleaner
_____Removal	_____Other (see comments)

COMMENTS: Manual pick up of mousse and oiled debris. Work to be conducted before 7/10.

TAG COMMENTS:

TAG APPROVAL DATE: 4/14/90
ADEC AL KEGLEVEN
EXXON ANDY TEAL
NOAA Barbara Scott Bob Loughlin
USCG G.A. REITER G.A. Reiter

FOSC: _____ DATE: 5-1-90

ACE 1852685 HS

KODIAK ECOLOGICAL CONSTRAINTS

SL-02-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	**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 unoiled 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.	

ACE 1852686

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / K6-34 · SL·2 SUBDIVISION: K6-34-SL-2A DATE 4-4-90

USCG
NAME D.D. Haven Jr, LCMD, USCGR SIGNATURE [signature]

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED
COMMENTS

The amount of oil present does not justify the dedication of personnel for clean-up. The only reason I suggest treatment is due to the presence of clean up debri (pom-poms) that needs to be picked up. While there are workers out there, they may as well try to get some of the oil.

ADEC
NAME Francis I. Benais SIGNATURE [signature]

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED
COMMENTS

A small band of mousse patties/mousse saturated sediments (3m x 10m, exists. Comments remain the same as those for SL·03:
A small-scale manual clean-up is recommended.
SSAT field map should accompany clean-up crew.
some pom-poms are present in site, + should be removed.

LAND MANAGER
NAME John P. Hardister SIGNATURE [signature] USFWS

~~☐ NO TREATMENT RECOMMENDED~~ ~~☐ TREATMENT SUGGESTED~~
COMMENTS

Concur with comments of both USCG and ADEC representatives.

John Merrick [signature] John Merrick Koniag, Inc

Concur with above recommendations

REVISION NO. 00/21/90

ACE 1852687

SHORELINE OILING SUMMARY

REVISION NO. 03/22/90

OG Acton USCG Hansen SEGMENT ST/ KG-34-SL-2
BIO Davis LAND REP USFWS Hershiser SUBDIVISION KG-34-SL-3A
EXXON Avery ADEC Bennis TIME 5:00 to 5:20
TEAM NO.: 20 TIDE LEVEL: +1.5 to +1.3 DATE 4 / 4 / 90
EST. SUBDIVISION LENGTH: 742 m ☐ Sun ☐ Clouds ☐ Fog ☐ Rain ☒ Snow
UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock
SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: N to S
SURFACE SEDIMENTS: R 0 % B 0 % C 20 % P 20 % G 30 % S 15 % M 25 % V 10 %
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 400 m NO 342 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR					IMPACTED ZONES			
	/0	/S	/P	/B	BRN/BLK BR	DBL/RBW RW	DRY SL	DGRY TL	LBRN	SU	UI	MI	LI
ASPHALT PAVEMENT													
POOLED													
COVER													
COAT				✓		✓						✓	
STAIN													
MOUSSE			✓					✓				✓	
PATTIES													
TARBALLS													
FILM													
NO OIL										✓	✓		✓

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 ~~N/A~~ 0

#BAGS 0

Photographs:

Roll No. 0

Frames 0

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CM)	BELOW		OIL / FILM COLOR					PIT ZONE				ANA	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UO	UC	BRN/BLK BR	DBL/RBW RW	DRY SL	DGRY TL	LBRN	SU	UI	MI	U		
1	30					✓	-										✓			M G P
2	30			-		✓	-										✓			M G P
3	30					✓	-										✓			M G P
4	40					✓	-										✓			M G P
5	30					✓	-										✓			M G P
							-													

COMMENTS A 2m band of very sporadic CT/S + MS/P (< 1% coverage) was observed for approx. 400 m in the upper MITE. An area approx 2m x 10m w/in this band had a slightly higher CT/S + MS/P concentration (< 5% coverage). Walked entire segment.

REVIEWED BAT DATE 7 Apr 90

ACE 1852688

S Acton

GMENT ST/ KG-34-SL-2

BDIVISION KG-34-SL-2A

TE 4 / 4 90

HECKLIST

_N Arrow
_Approx. Scale
_Seg/Sub Bndry
_O' Dist.
Width
Length
% Cover
_Substrate Character
_Est. HWL/LWL
_SSL
_Profile Location(s)
_Profile(s)
_Pit Location(s)
_Photo Location(s)

EGEND

1 △
No Subsurface Oil

2 ▲
Subsurface Oil

CT/C
...ss Distribution

CT/B
en Distribution

CT/P
ny Distribution

CT/S
ered Distribution

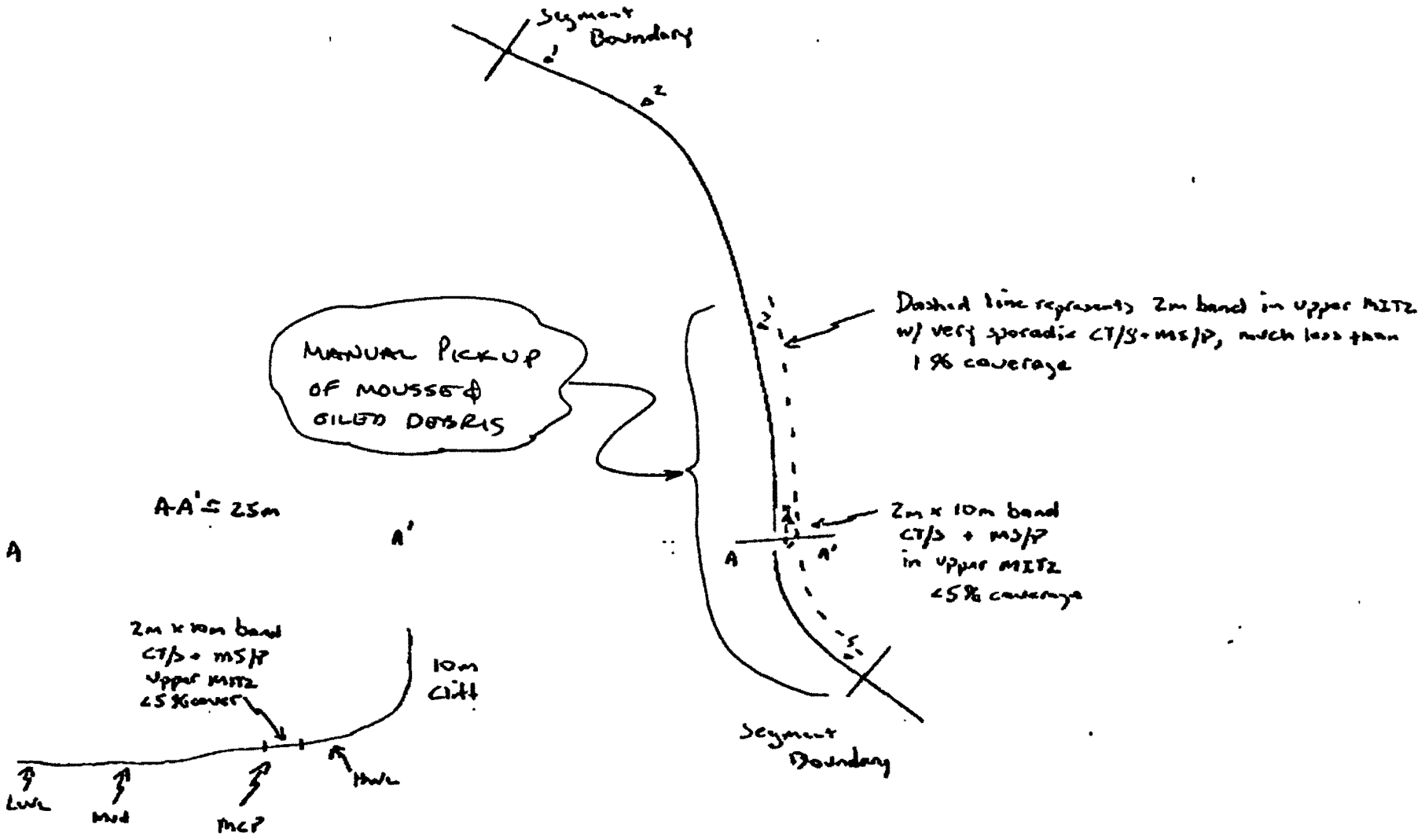
Vegetation

o location, direction, number

SKETCH MAP

Approx Scale
1cm ≃ 50m

N ↑



ACE 1852689

aracter Length (m): AP 0 PO ∩ CV ∩ CT 400 ST ∩ MS 400 PT ∩ TB ∩ FL ∩ NO 342

REVISION/AVAIL

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22/88

Segment ST / KO6-34 Subdivision SL-02A Date (mo / day / yr) 4-4-90

Time (24 hr) 16:30 Biologist H. Davis

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

(B) Overall % cover of biota (% of segment): Dense 10% Moderate 50% 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-20-3
Frames ——

BARNACLES

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

NOT PRESENT: 1, 2, 5, 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	X	2	2	2	2
3	3	X	3	3	X	3	3	X	X	X	3
4	4	X	4	4	X	4	4	X	4	X	4
5	5	X	5	5	5	5	5	5	5	5	5
6	6	X	6	6	6	6	6	6	6	6	6

NOT PRESENT: 1, 5, 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
3	3	3	3	X	X	X	X	X	3	3	3
4	4	4	4	X	X	X	X	X	4	4	4
5	5	5	5	5	X	5	5	X	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT: 1, 2, 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	X	3	X	3	X	X	X	X	3	3
4	4	X	4	X	4	X	X	X	X	4	4
5	5	X	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT: 1, 2, 5, 6

Wildlife Observations/ General Comments: Soft cliffs above the intertidal look to have slumped often sediment is very soft. Eelgrass beds visible in deeper water. Dense mussle patches with some Fucus cover in low intertidal area. (2) oyster catchers seen on mussle beds. Parts of the Mytilus beds are on fine sediments & fed up by the mussles next to them.

Ecological Considerations: (1A, 1B, 8AA) This is an Estuary area that provides food, shelter and breeding habitats to many species of birds, mammals and fish. In front of this section are patches of dense Mytilus.

ASC # 256-40, # 10010

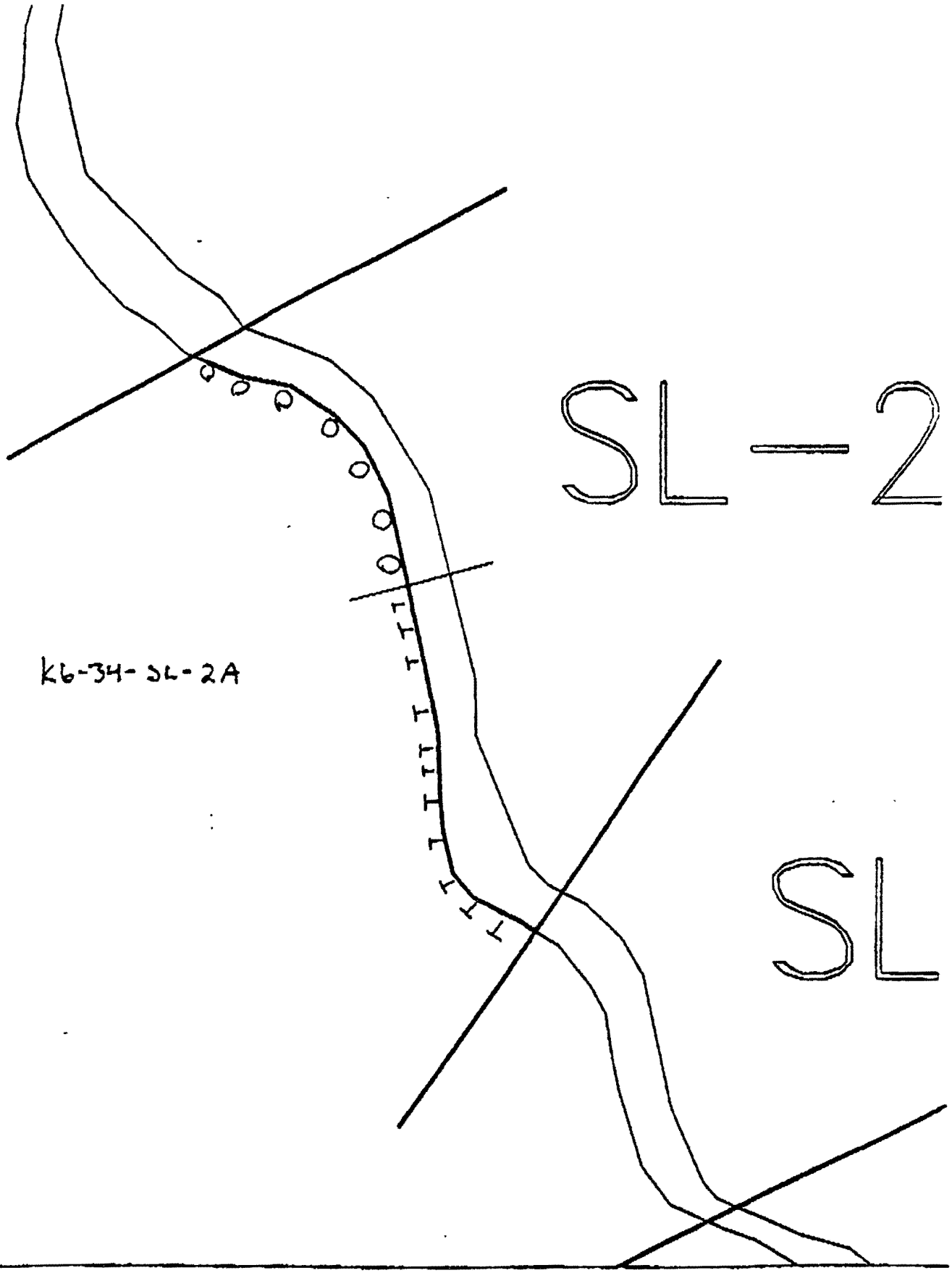
ACE 1852690

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 unoiled 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.

ACE 1852691



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

SL-2

ADEC Segment Length: 742m

0 100 200 300
METERS

KG-34-SL-2A
Map Key: GOA-191
Name: Acton
Date: 4-4-90
Date Entered:
ACE 1852692 -/S

SHORELINE EVALUATION

SEGMENT ST/K06-34-SL-03 SUBDIVISION A (1 OF 1) DATE 4/7/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:
Salmon stream mouth no. ASC #256-40, #10010
1A Salmon stream outmigration (4/15 to 7/31)
1B Salmon spawning (7/15 to 9/10; PEAK 8/15)
8AA Sensitive Estuary
No disturbance of stream beds or banks unless authorized by ADF&G. Contact ADF&G Habitat Division prior to treatment for permits.

SUBDIVISION ECOLOGICAL CONSTRAINTS:
Avoid disturbance/damage to unoiled substrate and biota. 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 E Holmes DATE: 4/17/90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 21 m: No Oil 839 m
Subsurface Oil Observed: Yes____ No X Maximum Depth_____

RECOMMENDATIONS:

_____No Treatment Recommended	_____Snare/Absorbent Booms
X Treatment Recommended	_____Oil Snares (pom poms)
X Manual Pickup	_____Absorbents (pads,rolls,etc)
_____Bioremediation	_____Spot Washing:_____Wands
_____Tarmat: _____Breakup	_____ Beach Cleaner
_____Removal	_____Other (see comments)

COMMENTS: Recommend manual pick up of mousse and oiled trash. Work should be conducted before 7/10, per above constraints.

TAG COMMENTS:

TAG APPROVAL DATE: 4/16/90
ADEC Pat Miller
EXXON Andy Toth FOSC: _____ DATE: 4-20-90
NOAA Burl Wescott
USCG G.A. Reiter

ACE 1852693 4/5

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / KOU 34 · SL · 3 SUBDIVISION: KU-34-SL-3A DATE 4-4-90

USCG
NAME D.D. Haven Jr. GM3, USCGR SIGNATURE D.D. Haven

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED
COMMENTS

Mousse is not present in quantities that warrant treatment, but mousse is no weathering in this low energy very rapidly; so I recommend treatment (low priorit small scale) due to the lack of weathering of the oil.

ADEC
NAME Francine J. Bennis SIGNATURE Francine J. Bennis

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED
COMMENTS

Walked entire segment. A small band of mousse patties/MS=saturated sediment are present in northern portion of segment, just below cabin.
A small-scale manual pick-up of is recommended. This oil has remained static over the winter + is likely to persist for some time if not removed.
SSAT Field maps should accompany clean-up crew.

LAND MANAGER
NAME JOHN P. HARDESTER SIGNATURE John P. Hardester USFWS

~~☐ NO TREATMENT RECOMMENDED~~ ~~☒ TREATMENT SUGGESTED~~
COMMENTS

Concur with comments of ADEC representative. Observation of mousse patties disclosed a weathered condition that indicates their placement over-winter. Consideration for removal is warranted.

John Merrick John Merrick Konias, Inc REVISION NO. 03-21-90
If a clean up effort is made this summer this area should be

ACE 1852694

SHORELINE OILING SUMMARY

REVISION NO. 03/22/90

OG Acton USCG Hawley SEGMENT ST/ KG-34-SL-3
BIO Davis LAND REP VZEWS Hardsitter SUBDIVISION KG-34-SL-3A
EXXON Avery ADEC Benais TIME 4:20 to 5:00
TEAM NO.: 20 TIDE LEVEL: +2 to +1.5 DATE 4 / 4 / 90
EST. SUBDIVISION LENGTH: 804 m ☐ Sun ☐ Clouds ☐ Fog ☐ Rain ☒ Snow
UPLANDS DESCRIPTION: ☑ Grass ☐ Forest ☐ Rock
SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: N to S
SURFACE SEDIMENTS: R 0 % B 0 % C 20 % P 20 % G 20 % 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 25 (10m) m NO 779 (794) m

SURFACE OIL

CHARACTER	DISTRIBUTION /C	/S	/P	/S	OIL / FILM COLOR SHL/BR	DBL/RW	CY/SL	DBR/TL	LBR	IMPACTED ZONES SU	UI	MI	LI
ASPHALT PAVEMENT													
POOLED													
COVER													
COAT				✓		✓						✓	
STAIN													
MOUSSE			✓					✓				✓	
PATTIES													
TARBALLS				·									
FILM													
NO OIL										✓	✓		✓

PAVEMENT: H F S C sq. m by C cm
PATTIES / TARBALLS C BAGS
NEAR SHORE SHEEN? (NO) BR RW SL TL

OILED DEBRIS	AMOUNT SM	MD	LG
Logs			
Vegetation			
Trash	X		
Debris			

DEBRIS COLLECTED ☒ YES ☒ NO
TYPE Pom-Poms
#BAGS 2

Photographs:
Roll No. 20-3
Frames 13-15

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER OP	OR	OL	OF	NO	OILED INTERVAL (CM-CM)	BELOW UO	UC	OIL / FILM COLOR SHL/BR	DBL/RW	CY/SL	DBR/TL	LBR	PIT ZONE SU	UI	MI	LI	ANA	SUBSURFACE SEDIMENTS
1	30					✓	·										✓			MS>GP
2	30			·		✓	·									·	✓			MS>GP
3	40					✓	·										✓			MS>GP
4	40					✓	·									✓				MSGP
5	30					✓	·										✓			MSGP
							·													

COMMENTS One area in N end of segment had 3 cobbles w/ sporadic mousse (0.5cm x 2.5cm of mousse on each cobble). 2m x 10m band of MS/P and CT/S in MIT2 at S end of segment (< 5% coverage). Pom-Poms noted on sketch should be retrieved. Walked entire segment.

REVIEWED BAT DATE 7 Aug 90

ACE 1852695

OG Acton

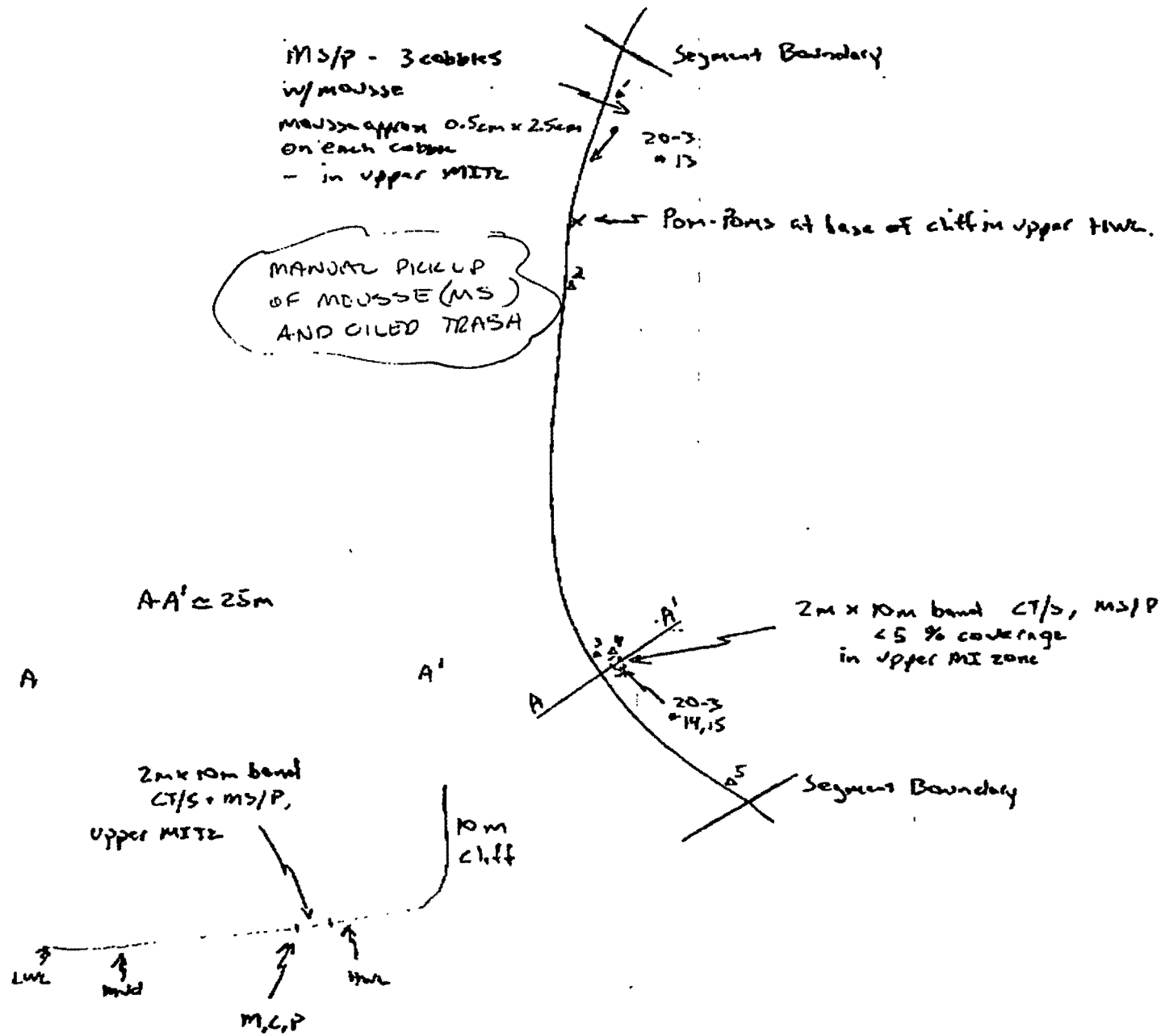
SEGMENT ST/ K6-34-SC-3

SUBDIVISION K6-34-SC-3A

DATE 4 / 4 90

SKETCH MAP

Approx Scale
1cm ≃ 50m



CHECKLIST

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

LEGEND

1 △
Pr1 - No Subsurface Oil

2 ▲
Pr1 - Subsurface Oil

CT/C
Continuous Distribution

CT/B
Broken Distribution

CT/P
Patchy Distribution

CT/S
Splashed Distribution

Oiled Vegetation

Photo location, direction, and number

Oil Character Length (m): AP 0 PO 0 CV 0 CT 25 ST 0 MS 25 PT 0 TB 0 FL 0 NO 779

REVISION:02/24/89

ACE 1852696

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22/90

Segment ST / KO6-34 Subdivision SL-03A Date (mo / day / yr) 4-4-90

Time (24 hr) 16:00 Biologist N. Davis

(A) Substrate type and % of segments:
(1) Bedrock ____ (2) Boulder ____ (3) Cobble 25 (4) Pebble 35 (5) Sand 20 (6) Silt 20

(B) Overall % cover of biota (% of segment): Dense ____ Moderate 25% Low 75% (25%)

(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-20-3
Frames 13, 14, 15

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	X	3	3	X	X	X	X	3	
4	4	4	4	X	4	4	X	X	X	X	4	NOT PRESENT
5	5	5	5	5	5	5	5	5	5	5	5	1, 2, 5, 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	
3	3	X	3	3	X	3	3	3	3	X	3	
4	4	X	4	4	X	4	4	4	4	X	4	NOT PRESENT
5	5	5	5	5	5	5	5	5	5	5	5	1, 2, 5, 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	
3	3	3	3	3	3	X	X	3	3	X	X	
4	4	4	4	4	4	X	X	4	4	X	X	NOT PRESENT
5	5	5	5	5	5	5	5	5	5	5	5	1, 2, 5, 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	
3	X	X	3	3	X	3	X	3	3	X	3	
4	4	X	4	4	X	4	X	4	4	X	4	NOT PRESENT
5	5	5	5	5	5	5	5	5	5	5	5	1 2, 5, 6
6	6	6	6	6	6	6	6	6	6	6	6	

Wildlife Observations/ General Comments: Bar tracks were seen in the upper intertidal. Mytilus was found rarely in the mid-intertidal. On the lower intertidal there were very dense patches of Mytilus. Littorines were the most numerous but limpets were found often. Fucus was also patchy in its distribution. Sporadic, fairly dense patches as small cobbles completely covered but scattered.

Ecological Considerations: (1A, 1B, 8AA) The estuary and river areas are food sources for many species of: Birds (Eagles, ducks, gulls and other water fowl), mammals (Deer, Bear, Fox, and river otter), and fish (Pink, Chum, Coho, Steelhead, and Rainbow)

ASC # 256-40, #1CC1C

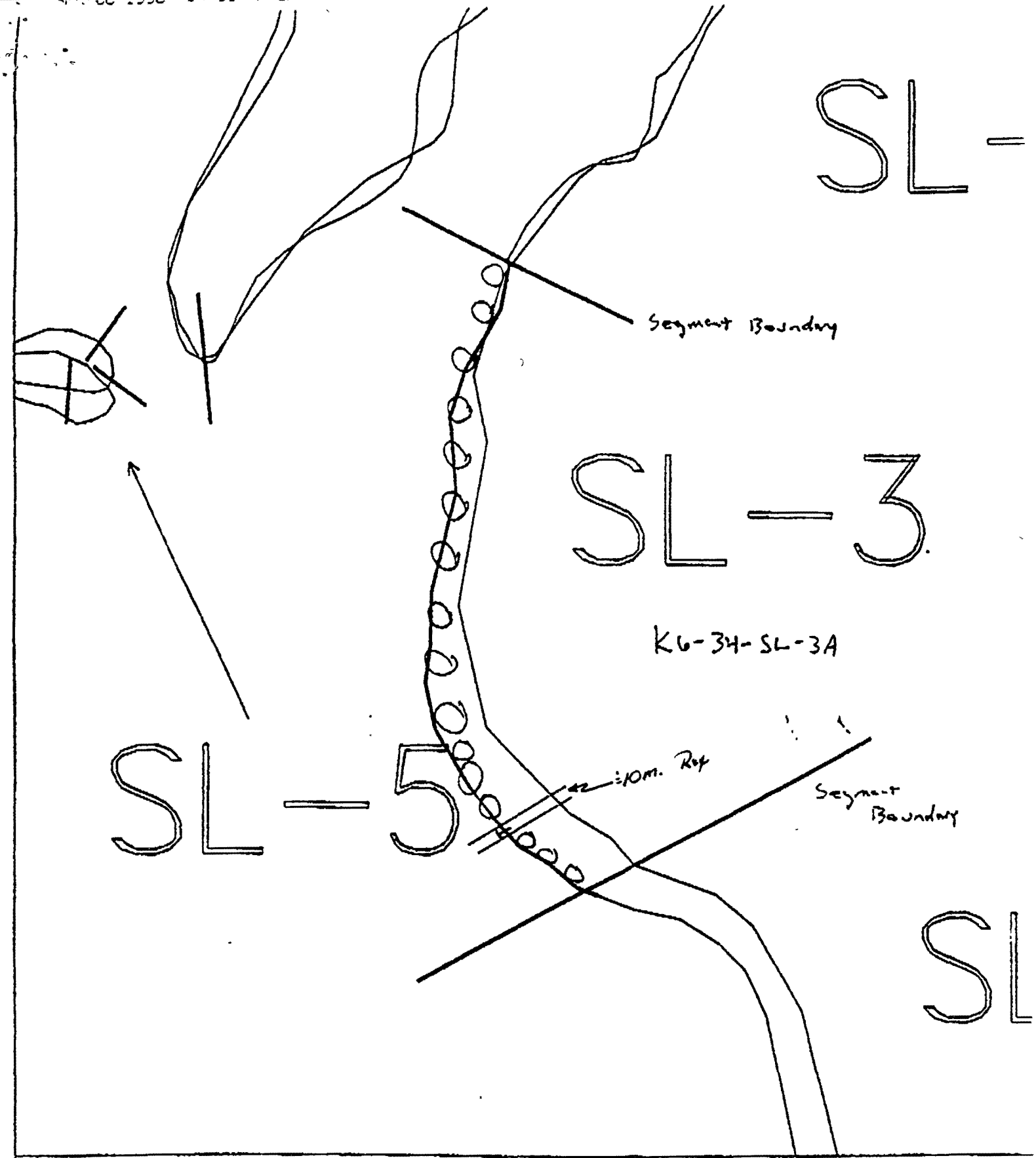
ACE 1852697

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 unoiled 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.

ACE 1852698



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

SL-3

ADEC Segment Length: 804m

0 100 200 300
METERS

KG-34-SL-3A
Map Key: COA-192
Name: Acton
Date: 4-4-90
Data Entered:

ACE 1852699 -/S

SHORELINE EVALUATION

SEGMENT ST/ K0634-SL-05 SUBDIVISION A (1 OF 1) DATE 4/7/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:
Salmon stream mouth no. 256-40-10010

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: Sheila E. Hamm DATE: 4/12/90

OILING CATEGORIZATION:
Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 12 m: No Oil 41 m
Subsurface Oil Observed: Yes____ No X Maximum Depth_____

RECOMMENDATIONS:

X 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: 4/16/90
ADEC D. KELLEY
EXXON ANDY TEAL FOSC: DATE: 4-20-90
NOAA Burl Wescott
USCG G.A. REITER

ACE 1852700+15

FIELD SHORELINE COMMENT SHEET

SEGMENT ST/ K0634/SL005 SUBDIVISION: A DATE 4-4-90

~~NOAA~~ ~~USCG~~
NAME John Naughton SIGNATURE John J. Naughton

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED
COMMENTS

Approximately 30m by 3m zone of stained cobble. Recommend allow to weather(clean) naturally.

ADEC
NAME Scott Shelton SIGNATURE Scott Shelton

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED
COMMENTS K0634/SL005 Sub. A.
No Sub surface oil observed 4 pits to 20 cm in cobble beach. 3m x 30m area Very light staining, oil stain sporadic and Patchy in distribution. Oil is weathered on cobble no mousse pockets or oiled sediment observed in this Area of Subsection A.
SL005 57 Meters walked.

LAND MANAGER
NAME John Merrick SIGNATURE John Merrick Konag Inc

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED
COMMENTS

Concur

ACE 1852701

SHORELINE OILING SUMMARY

REVISION NO. 03/22/90

OG Penland NOAA Naughton SEGMENT ST/ K0634/SL005
BIO Speight LAND REP Merrick KONIAG SUBDIVISION A
EXXON Byers ADEC Shelton TIME 16 : 55 to 17 : 05
TEAM NO.: 19 TIDE LEVEL: 2.0 Ft to 2.0 Ft DATE 4 / 4 /90
EST. SUBDIVISION LENGTH: 57 m ☐ Sun ☐ Clouds ☐ Fog ☐ Rain ☒ Snow
UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock Log debris
SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: N to S
SURFACE SEDIMENTS: R 0 % B 10 % C 70 % P 10 % G 10 % S 0 % M 0 % 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 30 m NO 27 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR					IMPACTED ZONES			
	/C	/B	/P	/S	SBR/BR	DBR/RW	DY/SL	DBR/TL	LBR/	SU	UI	MI	LI
ASPHALT PAVEMENT													
POOLED													
COVER													
COAT				\		\					\		
STAIN				X		X					X		
MOUSSE													
PATTIES													
TARBALLS													
FILM													
NO OIL										X		X	X

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

PATTIES / TARBALLS C BAGS

NEAR SHORE SHEEN? (NO) BR RW SL TL

OILED DEBRIS	AMOUNT SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

DEBRIS COLLECTED ☐ YES ☒ NO

TYPE C

#BAGS C

Photographs:

Roll No. 19 - 4

Frames 36 - 37

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CM)	BELOW		OIL / FILM COLOR					PIT ZONE				ANA	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UO	UC	SBR/BR	DBR/RW	DY/SL	DBR/TL	LBR/	SU	UI	MI	LI		
1	20					X	-									X				Cobbles
2	20					X	-										X			Cobbles
3	20					X	-									X				Cobbles
4	20					X	-										X			Cobbles
							-													
							-													

COMMENTS

- zone of stained cobble and gravel, zone of stain is 30m x 3m
- no oil observed at depth

ACE 1852702

OIL: Fresh

SEGMENT ST/ K0634 / SL005

SUBDIVISION A

DATE 9 / 4 90

SKETCH MAP

CHECKLIST

- ___ N Arrow
- ___ Approx. Scale
- ___ Sea/Sub Bndry
- ___ Oil Dist.
  - Width
  - Length
  - % Cover
- ___ Substrate Character
- ___ Est. HW/LW/WL
- ___ 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

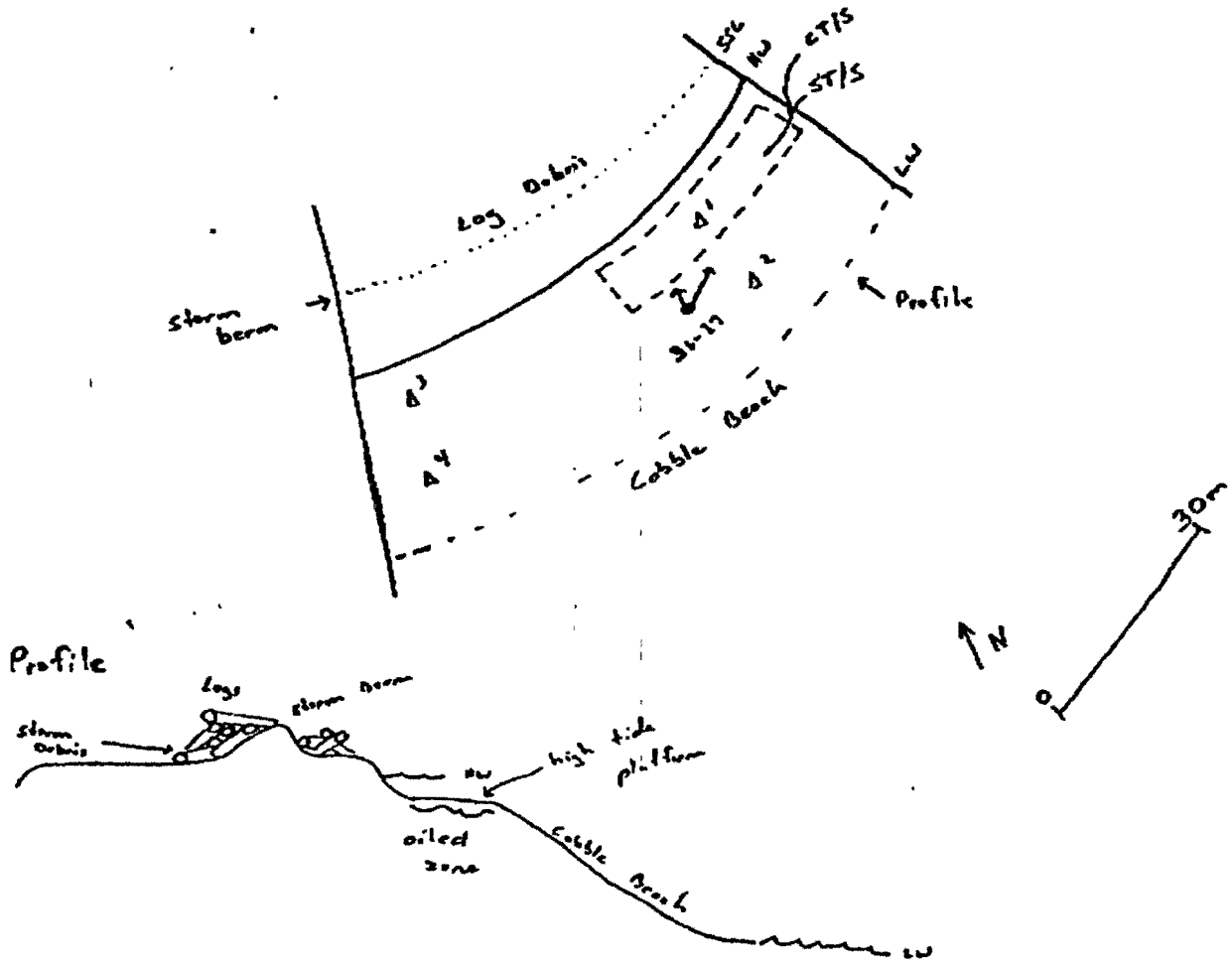
CT/B
Broken Distribution

CT/P
Patchy Distribution

CT/S
Splashed Distribution

Oiled Vegetation

1 ⟷
Photo location, direction, and number



Oil Character Length (m): AP 0 PO 0 CV 0 CT 0 ST 30 MS 0 PT 0 TB 0 FL 0 NO 27

REVISION 01/24/1

30m x 2m

ACE 1852703

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22/94

Segment ST / SL-5 Subdivision _____ Date (mo / day / yr) 4/4/90

Time (24 hr) 16:55 Biologist SPIGHT

(A) Substrate type and % of segments:
(1) Bedrock____ (2) Boulder____ (3) Cobble 70 (4) Pebble 30 (5) Sand____ (6) Silt____

(B) Overall % cover of biota (% of segment): Dense____ Moderate 50 Low 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 (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	X	3	X	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

MYTILUS

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

NOT PRESENT

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

NOT PRESENT

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 PRESENT

Wildlife Observations/ General Comments:

Ecological Considerations:

1A, 1B, 8AA

ACE 1852704

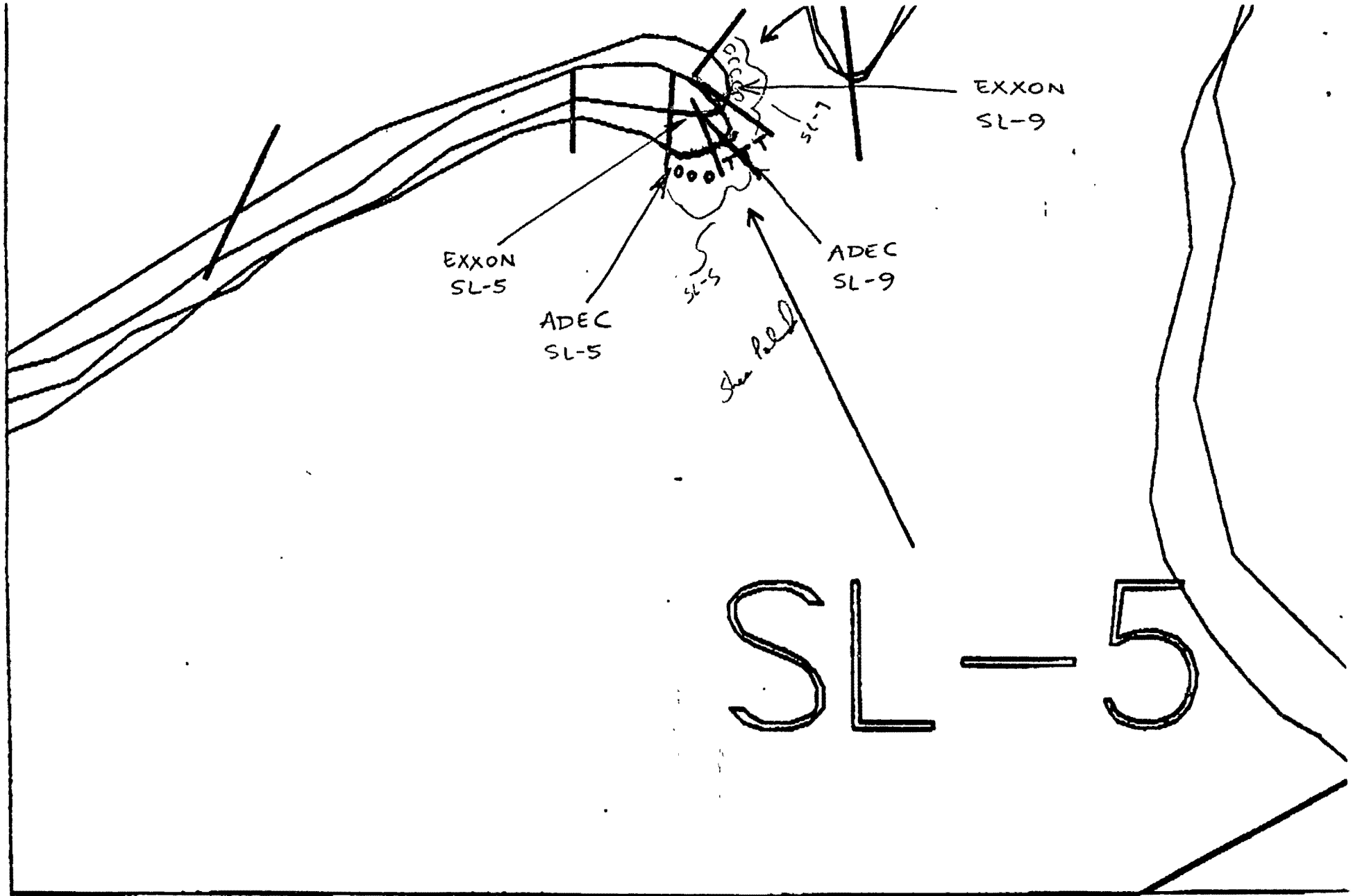
KODIAK ECOLOGICAL CONSTRAINTS

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	**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 unoiled 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.

ACE 1852705



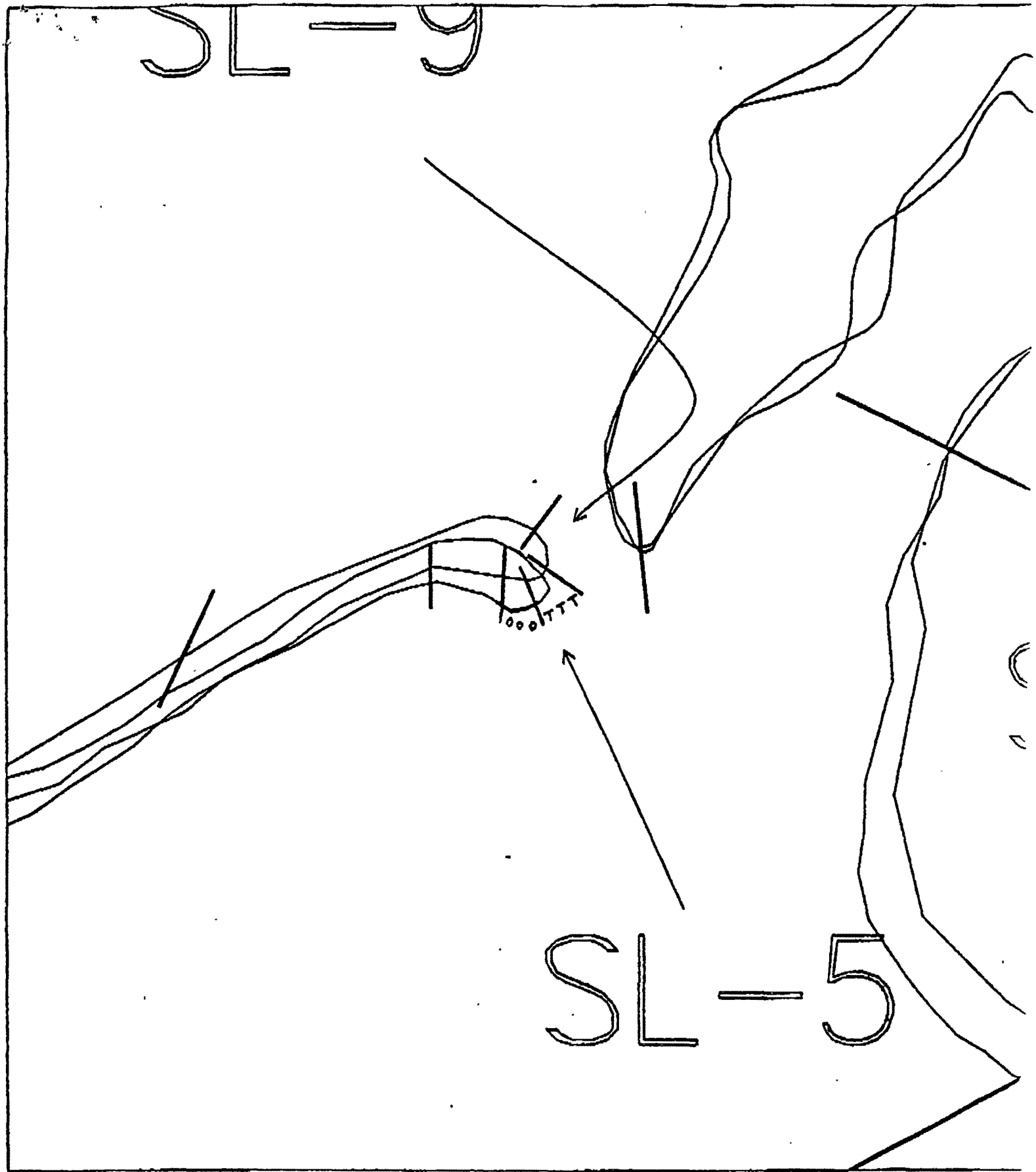
XXXX Wide
/.//// Medium
---- Narrow
TTTT Very Light

SL-5

ADEC Segment Length: 57m

Map Key: GOA-194
Name: Portland
Date: 4-4-92

ACE 1852706



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

SL-5

ADEC Segment Length: 57m

0 100 200 300

Map Key: GOA-194
Name: Penland
Date: 4-4-90

ACE 1852707 -15

SHORELINE EVALUATION

SEGMENT ST/ K06-34-SL-06 SUBDIVISION A (1 OF 1) DATE 4/9/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:
Salmon stream mouth no. ASC #256-40, #10010
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 Holmes DATE: 4/12/90

OILING CATEGORIZATION:

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

RECOMMENDATIONS:

X 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: 4/16/90.
ADEC Al Bergeron
EXXON Andy Teas
NOAA Burl Wescott Burl Wescott
USCG G.A. REITER G.A. Reiter
FOSC: [signature] DATE: 4-20-90

ACE 1852708+/S

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / K0634/SL006 SUBDIVISION: A DATE 4-4-99

~~NOAA~~ ~~USCG~~
NAME John Noughton SIGNATURE John J. Noughton

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED
COMMENTS
No oil observed. Lagoon facing cobble beach. Fairly low energy.

ADEC
NAME Scott Shelton SIGNATURE

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED
COMMENTS K0634/SL006
No oil observed - 4 pits to 20 cm NO Sub-surface oil observed. 80 meters walked

LAND MANAGER
NAME John Merrick SIGNATURE John Merrick Koniag, Inc

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED
COMMENTS

REVISION NO. 03/21/00

ACE 1852709

SHORELINE OILING SUMMARY

REVISION NO. 03/22/90

OG Penland ~~USCG~~ NOAA Naughton SEGMENT ST/ K0634/SL0006
BIO Speight LAND REP Mercer/Kon/AG SUBDIVISION A
EXXON Byers ADEC Sheldon TIME 17 :05 to 17 :15
TEAM NO.: 19 TIDE LEVEL: +2 ft. to +1.75 ft DATE 4 / 4 / 90
EST. SUBDIVISION LENGTH: 86 m ☐ Sun ☐ Clouds ☐ Fog ☐ Rain ☒ Snow
UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock Log Debris
SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: N to S
SURFACE SEDIMENTS: R 0 % B 10 % C 70 % P 10 % G 10 % S 0 % M 0 % 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 0 m NO 86 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR					IMPACTED ZONES			
	/C	/B	/P	/S	SHEEN	BRN/RED EMULS	ORG/BRN EMULS	BLACK EMULS	TAR/ASPH	SU	UI	MI	LI
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 N/A
#BAGS 0

Photographs:
Roll No. 57-14-5
Frames 1 - 4

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CM)	BELOW		OIL / FILM COLOR						PIT ZONE				ANA	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UO	UO	SHEEN	BRN/RED EMULS	ORG/BRN EMULS	BLACK EMULS	TAR/ASPH		SU	UI	MI	LI		
1	20					X	•										X				cobbles
2	20					X	•										X				cobbles
3	20					X	•										X				cobbles
4	20					X	•										X				cobbles
							•														
							•														

COMMENTS

• no oil observed on surface or subsurface

ACE 1852710

Page 1 of

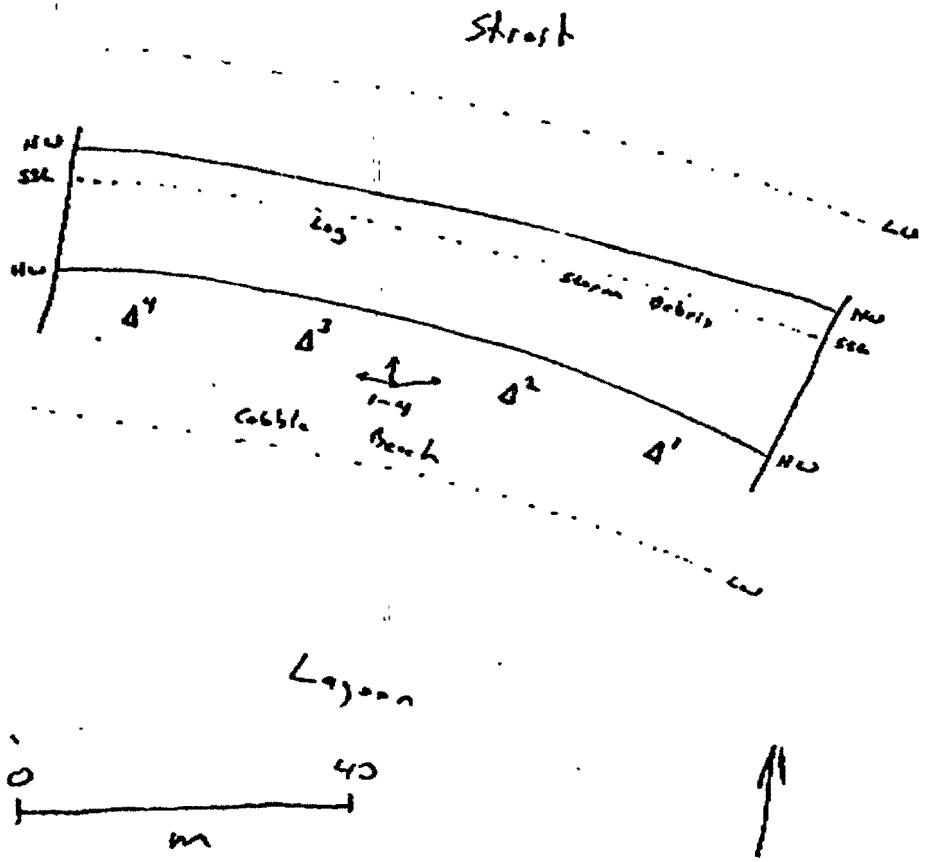
REVIEWER BAT DATE 9/10/90

SEGMENT ST/ K0634/SL006

SUBDIVISION A

DATE 4 / 4 90

SKETCH MAP



CHECKLIST

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

ACE 1852711

Oil Character Length (m): AP 0 PO 0 CV 0 CT 0 ST 0 MS 0 PT 0 TB 0 FL 0 NO 86

REVISION: 03/01/00

SHORELINE ECOLOGICAL SUMMARY

REVISION: 10/22/90

Segment ST / SL-6 Subdivision A Date (mo / day / yr) 4/4/90

Time (24 hr) 1610 Biologist SPIGHT

(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 30 Moderate 20 Low 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 (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	X	3	X	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

MYTILUS

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

NOT PRESENT

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

NOT PRESENT

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 PRESENT

Wildlife Observations/ General Comments:

Ecological Considerations: UL Generally bare. LL B. glandula cobble with mussels mixed in. Mussel beds in delta behind berm; also largish Fucus patches Littorina sitkana dense on gravel/mud between cobbles
No LL in this area

1A, 1B, 8AA
ASC# 256-40 #1010

ACE 1852712

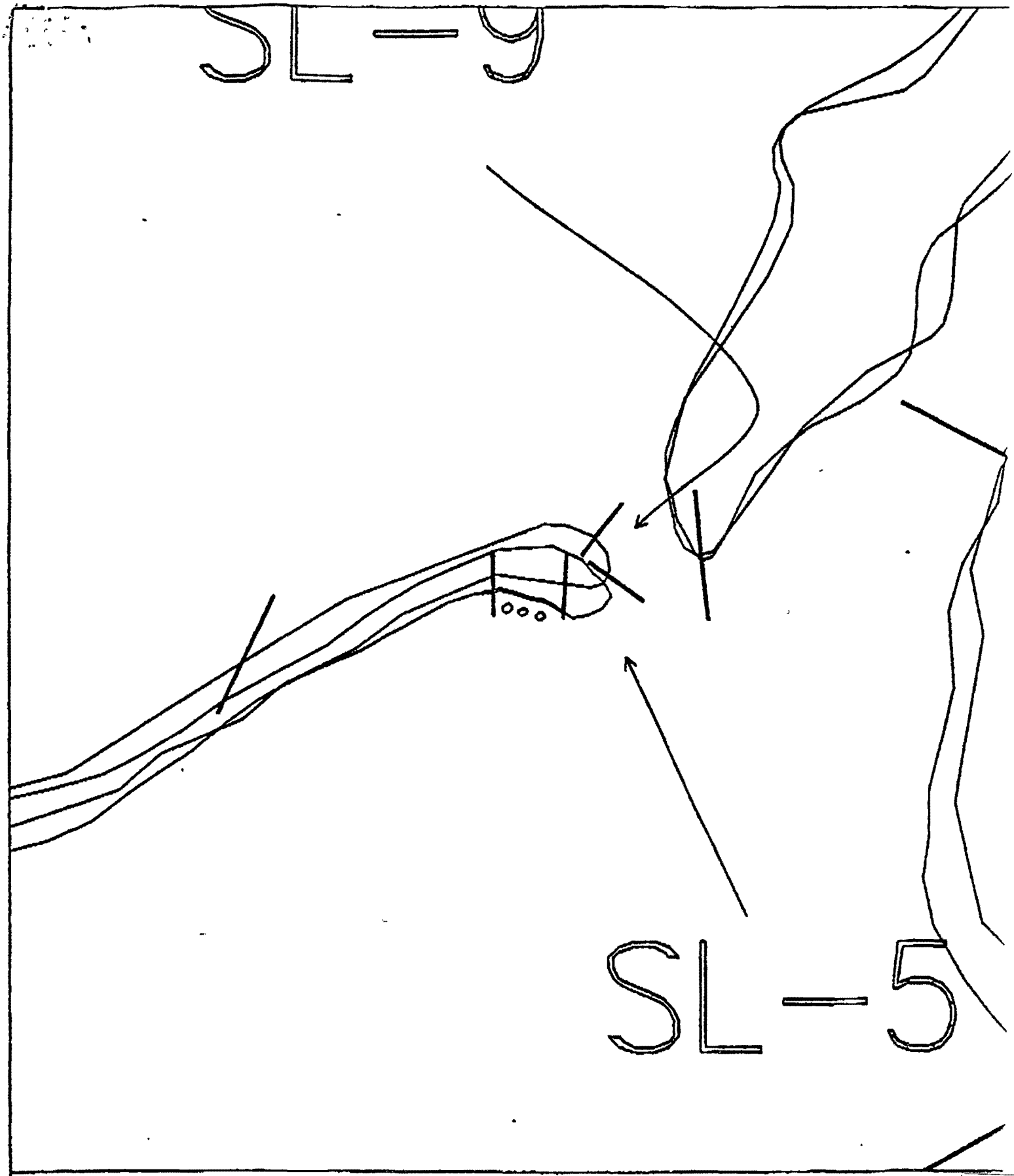
KODIAK ECOLOGICAL CONSTRAINTS

SL-06 '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	**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 unoiled 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.

ACE 1852713



XXXX Wide
//// Medium
---- Narrow
TTTT Very Light
0000 No. 0:1

SL-6

ADEC Segment Length: 86m

0 100 200 300

Map Key: GOA-195
Name: Penland
Date: 4-4-90
Date Entered:

ACE 1852714-JS

SHORELINE EVALUATION

SEGMENT ST/ K06-34-SL-07 SUBDIVISION A (1 OF 1) DATE 4/7/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:
Salmon stream mouth no. 256-40-10010.
Salmon stream outmigration (1A) - 3/1 to 3/15 and spawning (1B) - 7/10 to 8/31. No disturbance of stream bed or banks unless authorized by ADF&G. Contact ADF&G Habitat Division prior to treatment for permits.
Sensitive estuary (8AA).

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). required prior

SHPO SIGNATURE: Charles E Holmes DATE: 4/17/90

OILING CATEGORIZATION:
Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 112 3/4 m: No Oil 0 m
Subsurface Oil Observed: Yes____ No X Maximum Depth_____

RECOMMENDATIONS:

X No Treatment Recommended	_____Snare/Absorbent Booms
X Treatment Recommended	_____Oil Snares (pom poms)
X Manual Pickup	_____Absorbents (pads,rolls,etc)
_____Bioremediation	_____Spot Washing:_____Wands
_____Tarmat: _____Breakup	_____ Beach Cleaner
_____Removal	_____Other (see comments)

COMMENTS:

TAG COMMENTS:
DUE TO THE ENVIRONMENTAL SENSITIVITIES AND RESOURCE USE MANUAL PICK UP OF MOUSSE PATTIES REQUIRED.

TAG APPROVAL DATE: 4/14/90.
ADEC Art Weiner Art Weiner
EXXON Andy Teal Andy Teal FOSC: [signature] DATE: 5-1-90
NOAA Ray Wescott Ray Wescott
USCG G.A. Reiter G.A. Reiter

ACE 1852715+15

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / k0634 / sl007 SUBDIVISION: A DATE 4-4-90

~~NOAA~~ ~~USCG~~
NAME John Naughton SIGNATURE John J. Naughton

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED
COMMENTS

Oil stains and some mousse were observed in an almost continuous band of 1 to 2 metres wide along this entire segment. However did not appear to be subsurface. Because this segment is low energy the mousse should be removed manually. The stained cobbles should not be treated and no cobbles should be removed from the beach during treatment.

ADEC
NAME Scott Shelton SIGNATURE Scott Shelton

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED
COMMENTS K0634/SL007 1164 meters. ASSESSMENT.
Band of oil observed in splashes 2 meters wide, rather sporadic along this segment. Mousse in sediment observed in this band as well. Tarballs were found in the Mid to upper tidal levels. 6 pits in cobbles to 20 cm NO subsurface oil observed. Impact can be observed along the entire 1164 meters. Type A clean up could greatly impact surface conditions. Low energy beach

LAND MANAGER
NAME John Merrick SIGNATURE John Merrick Koniag, Inc

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED
COMMENTS

If treating other segments a once over picking up the mousse patches is recommended

ACE 1852716

SHORELINE OILING SUMMARY

REVISION NO. 03/22/90

OG Packard NOAA Vaughan SEGMENT ST/ K0624/S4007
BIO Speight LAND REP Merrick KONIAG SUBDIVISION A
EXXON Byers ADEC Shelton TIME 17 : 15 to 17 : 30
TEAM NO.: 19 TIDE LEVEL: +1.75 to +1.75 DATE 4 / 4 / 90
EST. SUBDIVISION LENGTH: 1164 m ☐ Sun ☐ Clouds ☐ Fog ☐ Rain ☒ Snow
UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock Log debris
SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: N to S
SURFACE SEDIMENTS: R 0 % B 10 % C 70 % P 10 % G 10 % S 0 % M 0 % 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 1164 m NO 0 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR					IMPACTED ZONES			
	/C	/S	/P	/I	DK BR	MED BR	LT BR	BRT TL	SHEEN	SU	UI	MI	U
ASPHALT PAVEMENT													
POOLED													
COVER													
COAT				\		\					\		
STAIN													
MOUSSE				X			X				X		
PATTIES													
TARBALLS													
FILM													
NO OIL										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 N/A

#BAGS 0

Photographs:

Roll No. 19-5

Frames 5 - 13

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	UG	DK BR	MED BR	LT BR	BRT TL	SHEEN		SU	UI	MI	U		
1	20					X	•										X				Cobbles
2	20					X	•										X				Cobbles
3	20					X	•										X				Cobbles
4	20					X	•										X				Cobbles
5	20					X	•										X				Cobbles
6	20					X	•										X				Cobbles

COMMENTS

• oil in narrow 2m band, along the entire length of the shoreline.
• oil is in the upper-intertidal zone.

ACE 1852717

Page 1 of

REVIEWER BAT DATE 7 Apr 90

US Island

SEGMENT ST/ K0634/ SL007

SUBDIVISION A

DATE 4 / 4 90

SKETCH MAP

CHECKLIST

- ✓ N Arrow
- ✓ Approx. Scale
- ✓ Seg/Sub Bndry
- ✓ Oil Dist.
  - Width
  - Length
  - % Cover
- ✓ Substrate Character
- ✓ Est. HW/LW/L
- ✓ 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

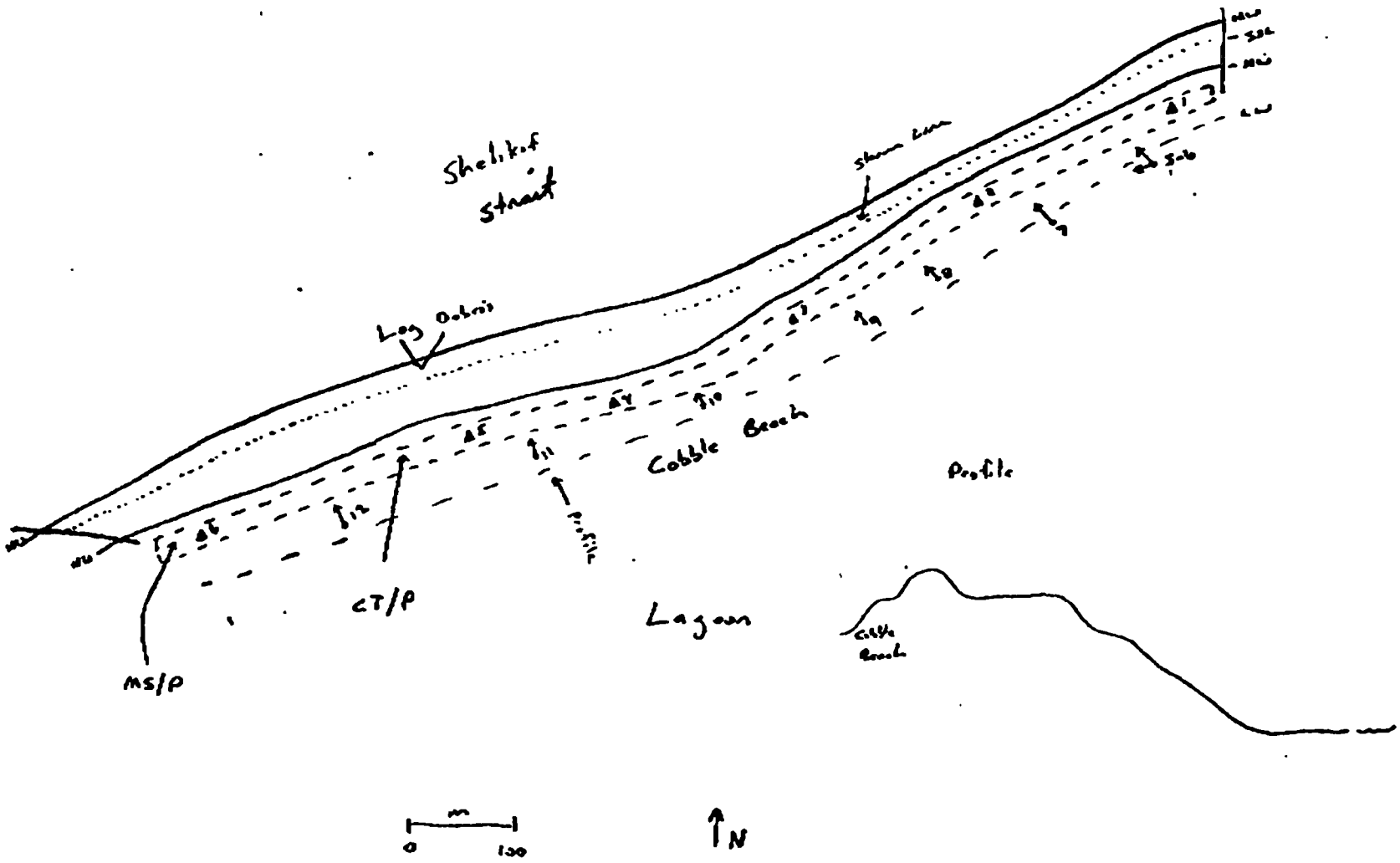
CT/B Broken Distribution

CT/P Patchy Distribution

CT/S Splashed Distribution

Oiled Vegetation

1 ⇨ Photo location, direction, and number



Oil Character Length (m): AP 0 PO 0 CV 0 CT 1164 ST 0 MS 1164 PT 0 TB 0 FL 0 NO 0

ACE 1852718

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22/88

Segment ST / SL-7 Subdivision _____ Date (mo / day / yr) 4/4/90

Time (24 hr) 716:10 Biologist SPIGHT

(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 ____ 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	X	3	3	3	3	X	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

MYTILUS

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

NOT PRESENT

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	X	3	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

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

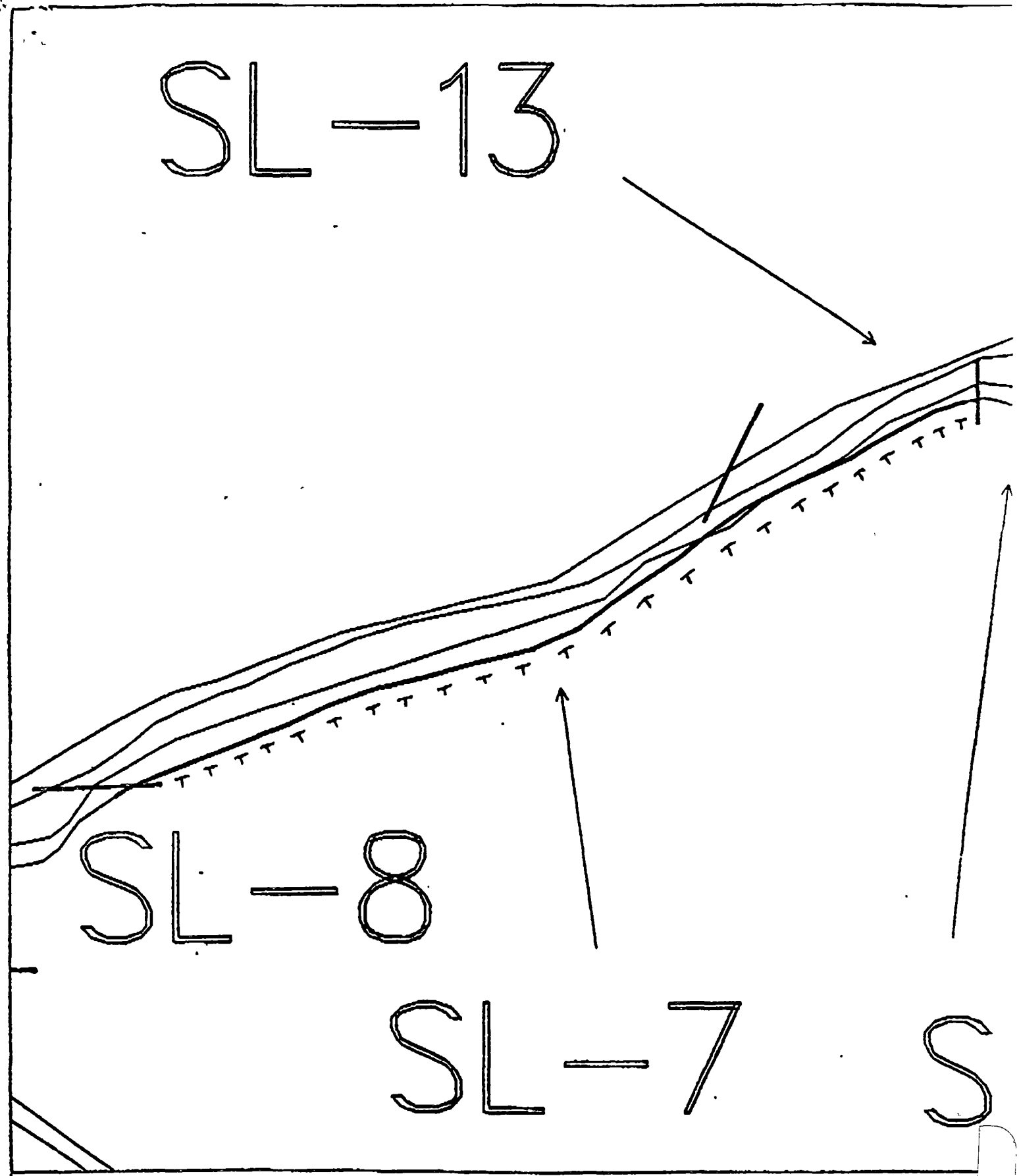
NOT PRESENT

Wildlife Observations/ General Comments:

Ecological Considerations: B glandula cobble
Fucus common in a couple of places
No LL
Eelgrass in lagoon

1A, 1B, 8AA
ASC # 256-40, #10010

ACE 1852719



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

SL-7

ADEC Segment Length: 1184m

0 100 200 300
METERS

Map Key: COA-196a
Name: Shee Penland
Date: 4-4-90
Date Entered:

ACE 1852720 -/S

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 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: April 14, 1990 CEH 4/25/90

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)

AA 4/25/90.

COMMENTS: Bioremediate subsurface oil.

TAG COMMENTS:

TAG APPROVAL DATE: 4/14/90
ADEC JOHN BAUER John Bauer
EXXON ANDY TEAL Andy Teal
NOAA Burt Wescott Burt Wescott
USCG G.A. Reiter G.A. REITER
FOSC: ____ DATE: 4-22-90 (FAXED)
Include limited pickup of mousse

ACE 1852721 +1S

KODIAK ECOLOGICAL CONSTRAINTS

SL-08-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	**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 unoiled 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.	

ACE 1852722

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / K0634/SL008 SUBDIVISION: A DATE 4-4-90

~~NOAA~~
~~USCG~~
NAME John Naughton SIGNATURE John D. Naughton

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED

COMMENTS

Suggest clean up (manual removal) of only pooled material which is "melting" subsurface in cobbles. Stained and coated cobbles should not be treated – only way to clean these would be to physically remove the cobbles, which I recommend against.

ADEC
NAME Scott Shelton SIGNATURE Scott Shelton

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED

COMMENTS K0634/SL008 Sturgeon River lagoon
Oil can be observed along the entire Segment. With surface contaminated on Segment borders. 330 meters length of K0634/SL008. Mousse, occasional along segment between cobble and gravel sediment. 6 pits dug to 30cms – pits 4 & 5 observed oil in subsurface sediments. Weathered oil down to 10 cm on cobble. Tools on surface can be manual clean type. Subsurface oil may need Geo-tech bag washing treatment. Low energy area.

LAND MANAGER
NAME John Merrick SIGNATURE John Merrick Konias Inc

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED

COMMENTS

Limited manual removal of thickest suggested.

REVISION NO. 03/21/90

ACE 1852723

SHORELINE OILING SUMMARY

REVISION NO. 03/22/90

OG Penland NOAA/USCG Naughton SEGMENT ST/ K0634/SL0008
BIO Speight LAND REP Merritt KONIAG SUBDIVISION A (1/1)
EXXON Byers ADEC Shelton TIME 17 :30 to 18 :00
TEAM NO.: 19 TIDE LEVEL: +1.7 ft to +1.5 ft DATE 4 / 4 /90
EST. SUBDIVISION LENGTH: 330 m ☐ Sun ☐ Clouds ☐ Fog ☐ Rain ☒ Snow
UPLANDS DESCRIPTION: ☐ Grass ☐ Forest ☐ Rock Log Debris
SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: N to S
SURFACE SEDIMENTS: R 0 % B 10 % C 70 % P 10 % G 10 % S 0 % M 0 % V 0 %
SLOPE : Lang 100 % Hang 0 % Vert 0 % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
OIL CATEGORY LENGTH: W 0 m M 0 m N 70 m VL 260 m NO 0 m

SURFACE OIL

CHARACTER	DISTRIBUTION /O	/B	/P	/S	OIL / FILM COLOR BRN/ORG	DK BRN/BLK	OLIVE	BRN/TAN	LT TAN/GRY	IMPACTED ZONES SU	UI	MI	U
ASPHALT PAVEMENT													
POOLED													
COVER													
COAT				\		\					\		
STAIN													
MOUSSE				X				X			X		
PATTIES													
TARBALLS													
FILM													
NO OIL										X		X	X

PAVEMENT: H F S C sq. m by O cm
PATTIES / TARBALLS O 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 O

Photographs:
Roll No. ST-19-S
Frames 14-24

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER OP	OR	OL	OF	NO	OILED INTERVAL (CM-CM)	BELOW UO	UC	OIL / FILM COLOR BRN/ORG	DK BRN/BLK	OLIVE	BRN/TAN	LT TAN/GRY	PIT ZONE SU	UI	MI	U	ANA	SUBSURFACE SEDIMENTS
1	20					X	•									X				Cobbles
2	20					X	•									X				Cobbles
3	20					X	•									X				Cobbles
4	30		X				0 • 10		X				X			X				Cobbles
5	30		X				0 • 10		X				X			X				Cobbles
6	30					X	•									X				Cobbles

COMMENTS

- entire zone oiled, at the segment ends pt. is a surface coat,
- Oil can be seen melting into the top 10cm of cobbles in the MS/P and PO/S area.
- The low energy in this area will promote the persistence of oil here.

Page 1 of ___ REVIEWED BAT DATE 7 Apr 90

ACE 1852724

SKETCH MAP

SEGMENT ST/ k0634 / sl004

SUBDIVISION A

DATE 4 / 4 90

CHECKLIST

- ___N Arrow
- ___Approx. Scale
- ___Seg/Sub Bndry
- ___Oil Dist.
  - Width
  - Length
  - % Cover
- ___Substrate Character
- ___Est. HW/LW/L
- ___BSL
- ___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

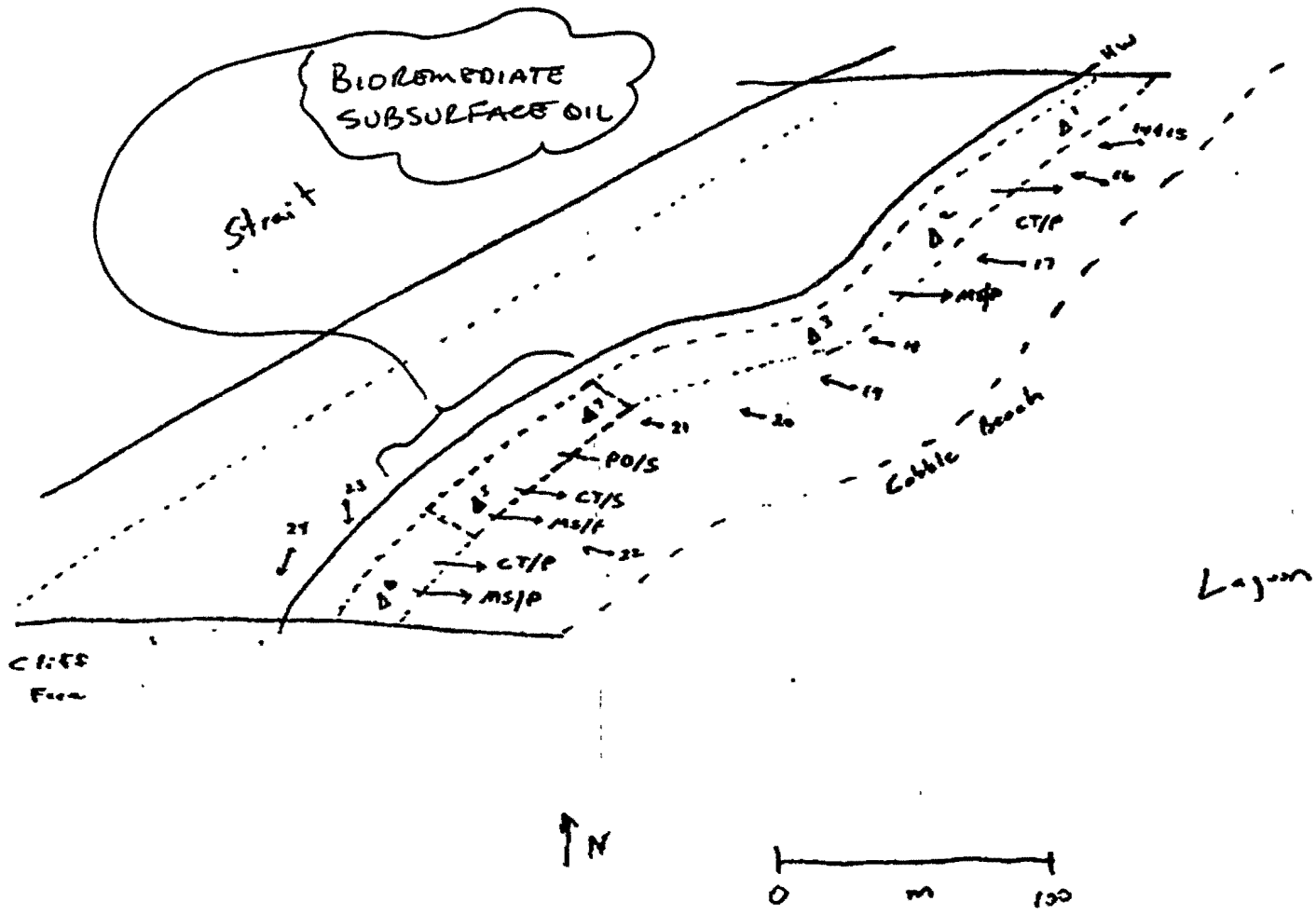
CT/S

Splashed Distribution

Oiled Vegetation

1 ⟷

Photo location, direction, and number



Oil Character Length (m): AP 0 PO 70m CV 0 CT 330 ST 0 MS 330 PT 0 TB 0 FL 0 NO 0

REVISION 03/89

ACE 1852725

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22/90

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

Time (24 hr) > 16:20 Biologist SPIGHT (prob. 17:10 – 17:30)

(A) Substrate type and % of segments:
(1) Bedrock ____ (2) Boulder ____ (3) Cobble 100 (4) Pebble ____ (5) Sand ____ (6) Silt ____

(B) Overall % cover of biota (% of segment): Dense 10 Moderate ____ 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 (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	X	3	X	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT

MYTILUS

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

NOT PRESENT

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

NOT PRESENT

Wildlife Observations/ General Comments:

Ecological Considerations: Generally a steep and barren gravel pile with a small mm of B. glandula cobble, this broader toward the end. Lots of eelgrass debris
Limpets may be common on UL under bare cobble.
A band of abundant eelgrass.

1A, 1B, 8AA
ASC # 256-40 #10010

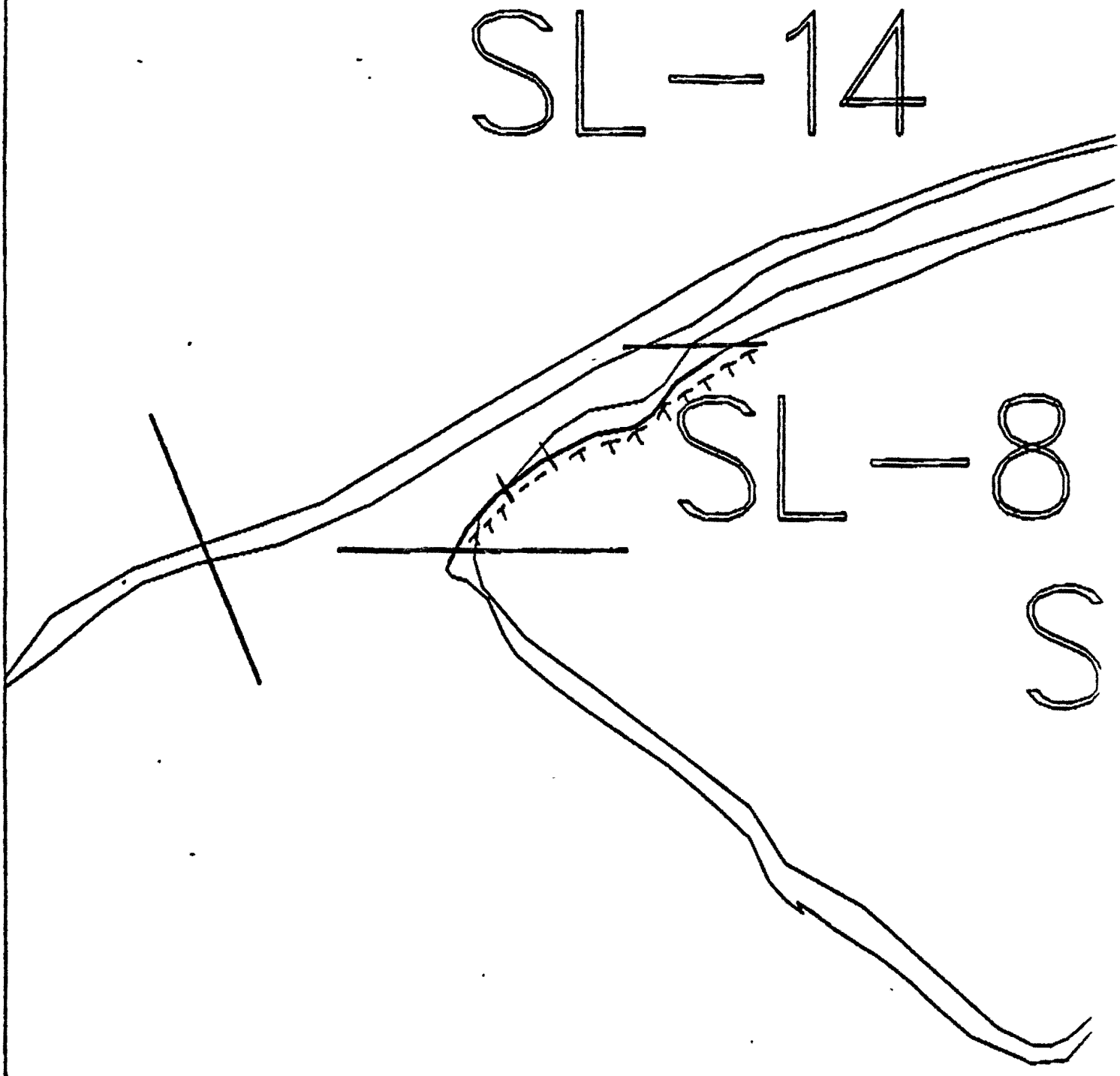
ACE 1852726

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 unoiled 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.

ACE 1852727



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

SL-8

ADEC Segment Length: 330m

0 100 200 300
METERS

Map Key: GOA-197
Name: Shea Poulsen
Date: 4-7-90
Date Entered:

ACE 1852728 -/S

SHORELINE EVALUATION

SEGMENT ST/ K06-34-SL-09 SUBDIVISION A (1 OF 1) DATE 4/9/90

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 substrate and biota. See attached Ecological Constraint Sheet.

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

SHPO SIGNATURE: Marlene Johnson DATE: April 14, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 23 m: No Oil 55 m
Subsurface Oil Observed: Yes____ No X Maximum Depth_____

RECOMMENDATIONS:

X 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: 4/14/90.
ADEC JOHN BAUER
EXXON ANDY TEAL FOSC: DATE: 5-1-90
NOAA Burl Wescott
USCG G.A. REITER

ACE 1852729+15

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / K0634/SL009 SUBDIVISION: A DATE 4-4-90

~~USCG~~
NAME John Naughton SIGNATURE John V. Naughton

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED
COMMENTS

No oil observed. This segment is made up of cobble berm forming south side of stream bank mouth (Sturgeon River). Appears to be quite dynamic, shifting with strong flows of river.

ADEC
NAME Scott Shelton SIGNATURE Scott Shelton

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED
COMMENTS K06/34 SL009
Channel bank inner tidal flow and river currents up to 8 knots in this area. NO oil observed 49 meters walked 3 pits no subsurface observed.

LAND MANAGER
NAME John Merrick SIGNATURE John Merrick Konias Inc

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED
COMMENTS

ACE 1852730

SHORELINE OILING SUMMARY

REVISION NO. 03/22/90

OG Penland NOAA Houghton SEGMENT ST/ KO634/SL009
BIO Speight LAND REP Merrick KONIAG SUBDIVISION A
EXXON Byers ADEC Shelton TIME 16 : 45 to 16 : 55
TEAM NO.: 19 TIDE LEVEL: +2.5 ft to 2.0 ft DATE 9 / 4 / 90
EST. SUBDIVISION LENGTH: 49 m ☐ Sun ☐ Clouds ☐ Fog ☐ Rain ☒ Snow
UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock log debris
SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: S to N
SURFACE SEDIMENTS: R 0 % B 10 % C 70 % P 10 % G 10 % S 0 % M 0 % 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 0 m NO 49 m

SURFACE OIL

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

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

PATTIES / TARBALLS C 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 C

Photographs:

Roll No. 19-4

Frames 34-35

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CM)	BELOW		OIL / FILM COLOR					PIT ZONE				ANA	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UO	UC						SU	UI	MI	U		
1	20					X	-									X				Cobble
2	20					X	-									X				Cobble
3	20					X	-									X				Cobble
							-													
							-													
							-													

COMMENTS

- This segment represents the channel bank of Sturgeon Lagoon.
- no oil observed on beach and in pits
- Three major pits dug and several random pits were dug, no oil was observed.

Page 1 of ____

REVIEWED BAT DATE 9 Apr 90

ACE 1852731

OG Penland

SEGMENT ST/ K0634 / SL009

SUBDIVISION A

DATE 4 / 4 90

SKETCH MAP

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

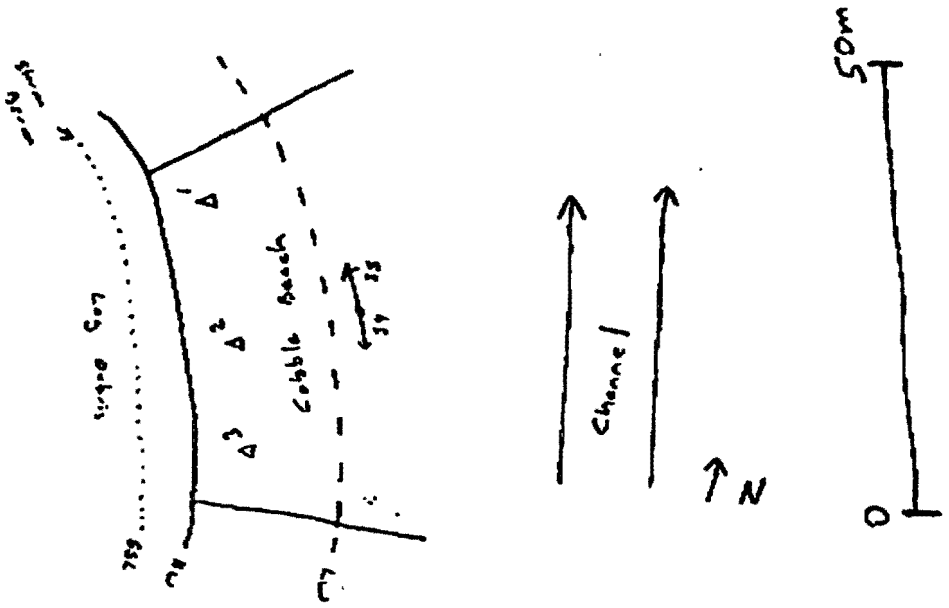
CT/S

Splashed Distribution

Oiled Vegetation

1 ⟶

Photo location, direction, and number



ACE 1852732

Oil Character Length (m): AP 0 PO 0 CV 0 CT 0 ST 0 MS 0 PT 0 TB 0 FL 0 NO 49

REVISION 03/26/90

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22/90

Segment ST / SL-9 Subdivision _____ Date (mo / day / yr) 4/4/90

Time (24 hr) 16:45 Biologist SPIGHT

(A) Substrate type and % of segments:
(1) Bedrock ____ (2) Boulder 10 (3) Cobble 70 (4) Pebble 10 (5) Sand 10 (6) Silt ____

(B) Overall % cover of biota (% of segment): Dense 70 Moderate 30 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	X	3	3	3	3	3	3	3	3	3	3
4	X	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:
lower bank is almost entirely a mussel bed

1A, 1B, 8AA

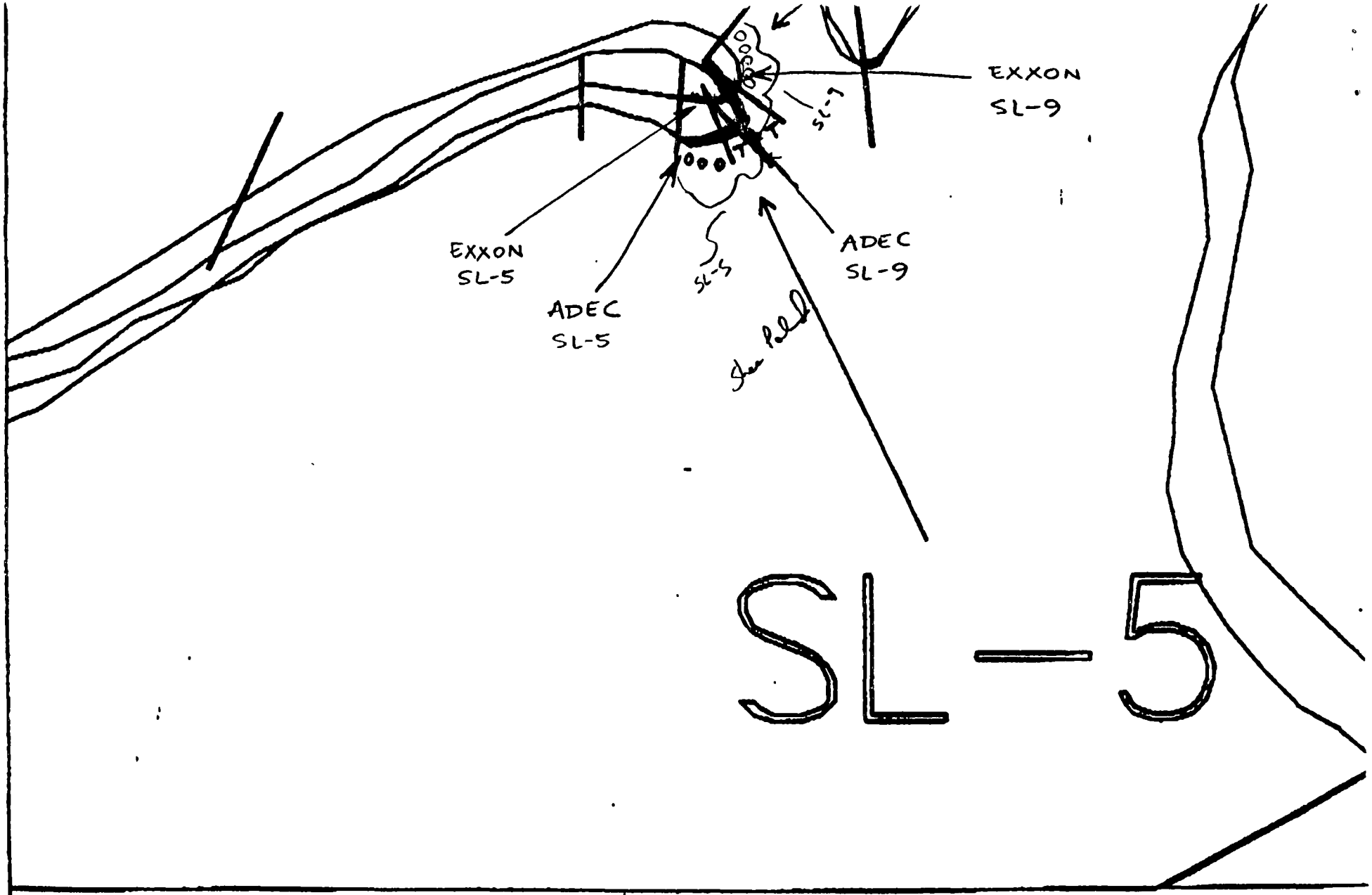
ACE 1852733

K0834 - SL09

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 unoiled 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.	

ACE 1852734



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

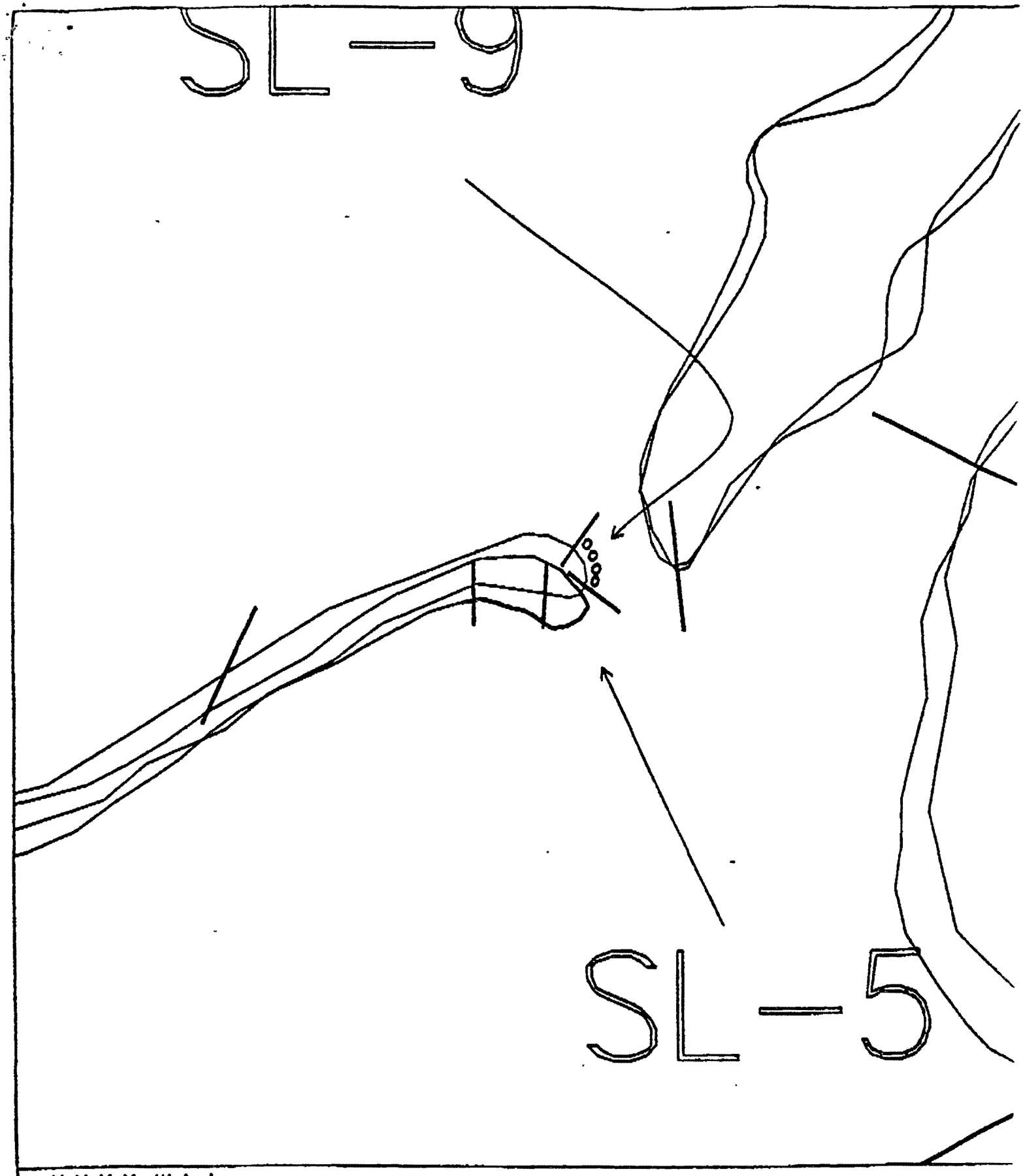
SL-5

ADEC Segment Length: 57m

0 100 200 300

Map Key: COA-194
Name: Penland
Date: 4-4-92

ACE 1852735



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

SL-9

ADEC Segment Length: 49m

0 100 200 300

Map Key: GOA-198
Name: Shea Project
Date: 4-4-95
Data Entered:
ACE 1852736 -15

SHORELINE EVALUATION

SEGMENT ST/ K06-34-SL-011 SUBDIVISION A (1 OF 1) DATE 4/9/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:
Salmon stream mouth no. ASC #256-40, #10010
1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 to 9/10;PEAK 8/15)
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 Holmes DATE: 4/17/90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 0 m: No Oil 847 m
Subsurface Oil Observed: Yes____ No X Maximum Depth_____

RECOMMENDATIONS:

X 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: 4/16/90
ADEC Al Kreiger
EXXON Andy Teal
NOAA Burl Wescott Bud Smith
USCG G.A. Reiter G.A. Reiter
FOSC: _____ DATE: 4-20-90

ACE 1852737 +S

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / K6-34, SL-11 SUBDIVISION: K6-34-SL-11A DATE 4-4-90

USCG
NAME D.D. Haven Jr. GM3, USCGR SIGNATURE D.D. Haven Jr.

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED
COMMENTS

No oil sighted

ADEC
NAME Francine J. Benoit SIGNATURE Francine J. Benoit

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED
COMMENTS

Walked entire segment, 792 m. NO OIL OBSERVED.

LAND MANAGER
NAME JOHN P. HARDISTER SIGNATURE John P. Hardister

~~☐ NO TREATMENT RECOMMENDED~~ ~~☐ TREATMENT SUGGESTED~~
COMMENTS

no oil observed.

John Merrick John Merrick Konvas Inc

no oil — no clean up

REVISION NO. 00/21/90

ACE 1852738

SHORELINE OILING SUMMARY

REVISION NO. 03/22/90

OG Acton USCG Haven SEGMENT ST/ K6-34-36-11
BIO Davis LAND REP USPWS Henderson SUBDIVISION K6-34-36-11A
EXXON Avery ADEC Bonnis TIME 5:45 to 6:15
TEAM NO.: 20 TIDE LEVEL: +1.5 to +2.0 DATE 4/4/90
EST. SUBDIVISION LENGTH: 792 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 0 % C 0 % P 0 % G 25 % S 25 % M 50 % 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 0 m NO 792 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR					IMPACTED ZONES			
	/C	/B	/P	/S	SBR/BRN	DSL/RW	OLV/SL	DSL/TL	LSR	SU	UI	MI	LI
ASPHALT PAVEMENT													
POOLED													
COVER													
COAT													
STAIN													
MOUSSE													
PATTIES													
TARBALLS													
FILM													
NO OIL										✓	✓	✓	✓

PAVEMENT: H F S 6 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 N/A
#BAGS 0

Photographs:
Roll No. 20-3
Frames 19

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CM)	BELOW		OIL / FILM COLOR					PIT ZONE				ANA	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UO	UC	SBL/BRN	DSL/RW	OLV/SL	DSL/TL	LSR	SU	UI	MI	LI		
1	30					✓	-										✓			MS
2	30					✓	-										✓			MS
3	30					✓	-										✓			MS
4	30					✓	-									✓				MS
5	30					✓	-										✓			MS
							-													MS

COMMENTS No oil was observed in this section. Entire section was surveyed on foot

REVIEWED BAT DATE 9 APR 90

ACE 1852739

Acton

SMENT ST/ Ke-34-SL-11

SDIVISION Ke-34-SL-11 A

TE 4 / 4 90

ECKLIST

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

GEND

1 △
No Subsurface Oil

2 ▲
Subsurface Oil

CT/C
nuous Distribution

CT/B
en Distribution

CT/P
hy Distribution

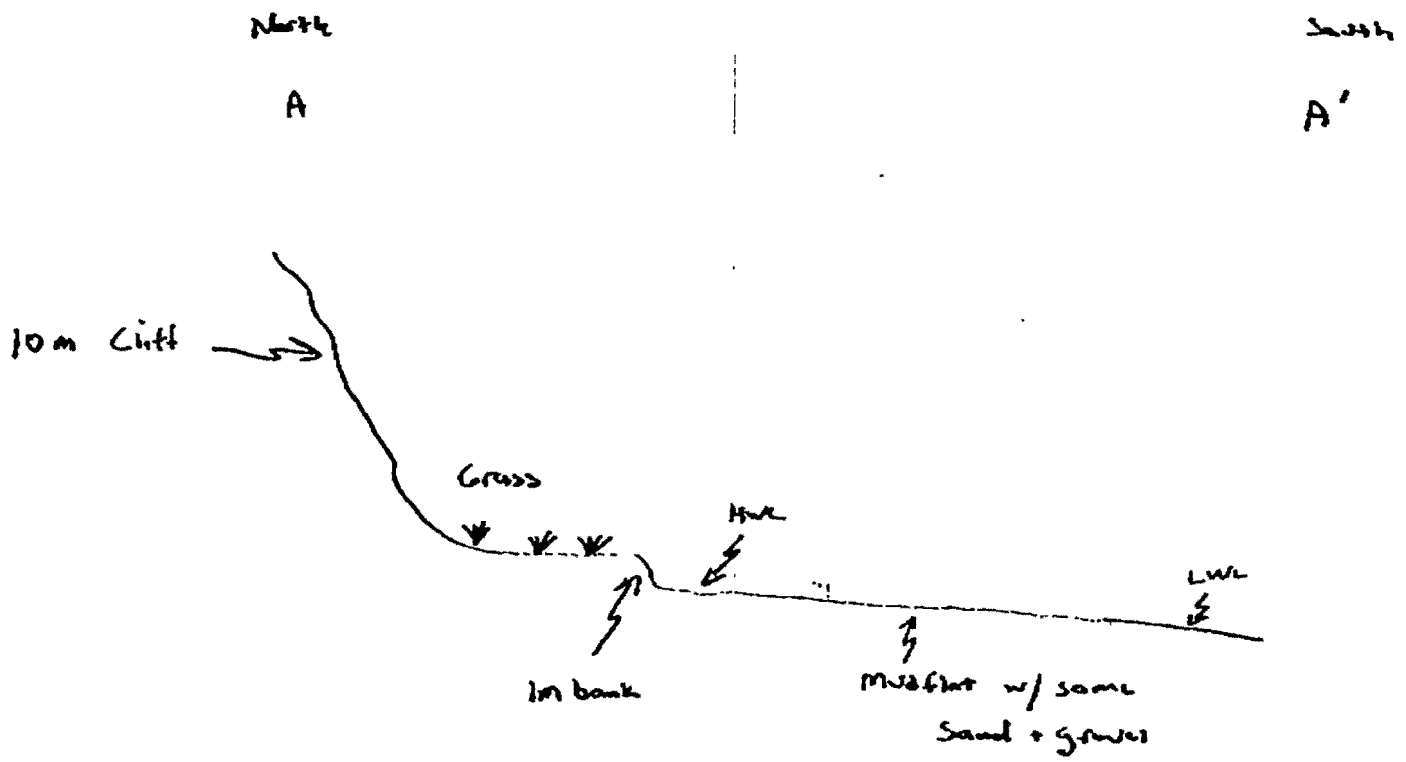
CT/S
ened Distribution

d Vegetation

to location, direction, number

SKETCH MAP

Approx. Scale
km ≃ 2m



ACE 1852740

haracter Length (m): AP 0 PO 0 CV 0 CT 0 ST 0 MS 0 PT 0 TB 0 FL 0 NO 792

REVISION: 8/24/98

SHORELINE ECOLOGICAL SUMMARY

REVISION: 6322-9

Segment ST / K06 - 34 Subdivision SL- IIA Date (mo / day / yr) 4-4-90

Time (24 hr) 17:30 Biologist N. Davis

(A) Substrate type and % of segments:
(1) Bedrock____ (2) Boulder____ (3) Cobble____ (4) Pebble 25% (5) Sand 25% (6) Silt 50%

(B) Overall % cover of biota (% of segment): Dense____ Moderate 50% Low 50% (25%)

(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-20-3
Frames 19, 20, 21

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	X	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	

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	1, 2, 3, 4, 5, C
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			
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	X	NOT PRESENT
4	4	4	4	4	4	4	4	4	4	4	4	1, 2, 4, 5, C
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	X	3	3	3	3	NOT PRESENT
4	4	4	4	4	4	4	X	4	4	4	4	1, 2, 5, C
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: This area boarded the east fork of the Sturgeon River. Several eagles were seen over head (3 adult, 1 juvenile) River otter tracks were found in the mud. Deer tracks were numerous. There were patches of Fucus at the mouth of the fork and scattered blades of Ulva (monostroma?) and some filimentous Rhodophyta

Ecological Considerations: (1A, 1B, 2AA) The Sturgeon Lagoon is an estuary area that provides feeding and breeding habitats for Birds (Eagles, Ducks, gulls and other waterfowl), mammals (Red Fox, Bear, Deer, and River Otter) and fish (Pink, Chum, Coho, Steelhead and Rainbow)

ACE 1852741

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 unoiled 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)

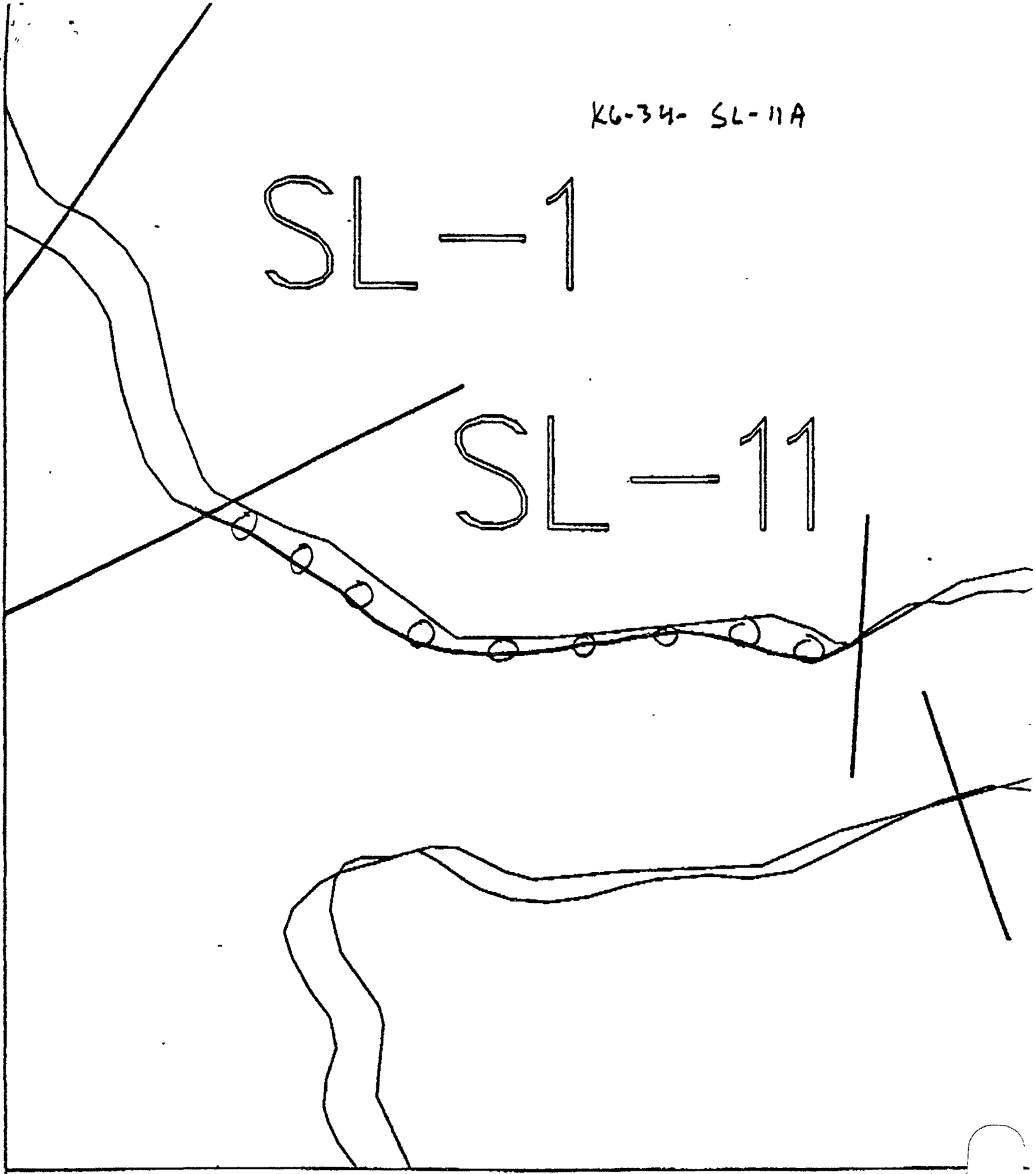
7JJ Invertebrate harvesting

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.

ACE 1852742

KG-34- SL-11A



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

SL-11

ADEC Segment Length: 792m

0 100 200 300
METERS

KG-34-SL-11A
Map Key: GOA-184
Name: Acton
Date: 4-4-90
Data Entered:

ACE 1852743

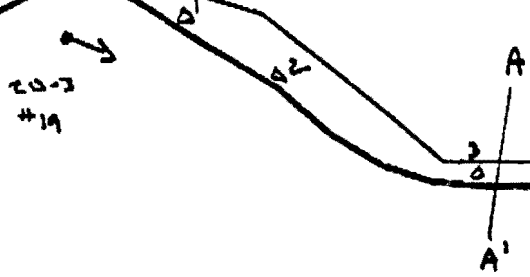
KG-34-SL-11A

SL-1

Segment Boundary

SL-11

Segment Boundary



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

SL-11

ADEC Segment Length: 792m

0 100 200 300
METERS

KG-34-SL-11A
Map Key: GOA-184
Name: Acton
Date: 4-4-90
Date Entered:

ACE 1852744 -/S

SHORELINE EVALUATION

SEGMENT ST/ K06-34-SL-013 SUBDIVISION A (1 OF 1) DATE 4/4/90

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: Sheila Hedman DATE: 4/12/90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 22 m: No Oil 446 m
Subsurface Oil Observed: Yes____ No X Maximum Depth_____

RECOMMENDATIONS:

X 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: 4/16/90
ADEC
EXXON
NOAA Byrl Wescott
USCG G.A. Reiter

FOSC: DATE: 5-12-90

ACE 1852745 +/S

If cultural resources are uncovered during shoreline treatment, stop work

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / K0634 / SL013 SUBDIVISION: A DATE 4-4-90

~~NOAA~~ ~~USCG~~
NAME John Naughton SIGNATURE John J. Naughton

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED
COMMENTS

a few oil stains observed on wood debris. No treatment recommended. Very high energy beach.

ADEC
NAME Scott Shelton SIGNATURE Scott Shelton

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED
COMMENTS K0634/SL013
TEAM WALKED 400 METERS High energy beach
Stains observed on Berm drift logs - NO oil
Observed at Pit locations or at Subsurface levels
to 15cm at the 4 pit locations. NO oil observed
on the Cobble Beach / High energy wave action with
intertidal current energy from tidal drainage of
Sturgeon Lagoon in the Northern section of SL013.

LAND MANAGER
NAME John Merrick SIGNATURE John Merrick KONIAG, INC

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED
COMMENTS

ACE 1852746

SHORELINE OILING SUMMARY

REVISION NO. 03/22/91

OG Penland NOAA/~~USCG~~ Naughton SEGMENT ST/ KO634/SL013
BIO Speight LAND REP Merrick Koniag SUBDIVISION A
EXXON Byers ADEC Shelton TIME 16 : 15 to 16 : 45
TEAM NO.: 19 TIDE LEVEL: +3 Ft. to +2.5 Ft. DATE 4 / 4 / 90
EST. SUBDIVISION LENGTH: 460 m ☐ Sun ☐ Clouds ☐ Fog ☐ Rain ☒ Snow
UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock driftwood
SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: S to N
SURFACE SEDIMENTS: R 0 % B 10 % C 80 % P 10 % G 0 % S 0 % M 0 % 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 10 m NO 450 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR					IMPACTED ZONES			
	/O	/R	/P	/B						SU	UI	MI	LI
ASPHALT PAVEMENT													
POOLED													
COVER													
COAT													
STAIN				X		X				X			
MOUSSE													
PATTIES													
TARBALLS													
FILM													
NO OIL											X	X	X

PAVEMENT: H F S 0 sq. m by 0 cm
PATTIES / TARBALLS 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. 19-5
Frames 33-34

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CM)	BELOW		OIL / FILM COLOR					PIT ZONE -				ANA	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UO	UC						SU	UI	MI	LI		
1	15		-			X	-									X				Cobble
2	15					X	-									X				Cobble
3	15					X	-									X				Cobble
4	15					X	-									X				Cobble
							-													
							-													

COMMENTS

- stains observed on exposed log (the distribution is very confined).
- no oil observed on beach
- four pits were dug and cobbles overturned in random areas.

ACE 1852747

OG Kenland

EGMENT ST/ K0634/SL013

UBDIVISION A

ATE 4 / 4 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

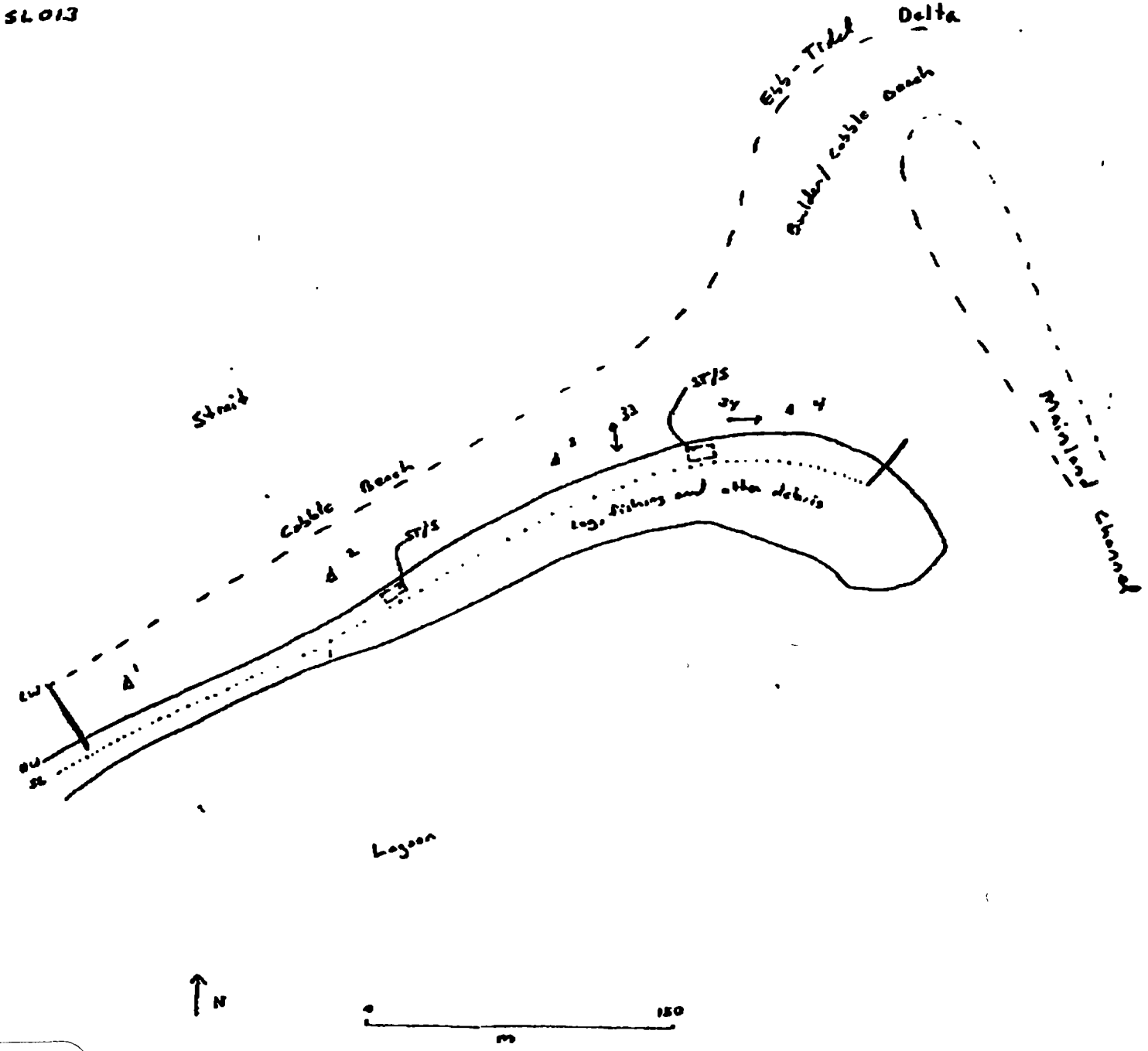
Splashed Distribution

Oiled Vegetation

1 ⇨

Photo location, direction, and number

SKETCH MAP



ACE 1852748

I Character Length (m): AP 0 PO 0 CV 0 CT 0 ST 13 MS 0 PT 0 TB 0 FL 0 NO 450

REVISION 4/90/MB

SHORELINE ECOLOGICAL SUMMARY

REVISION 03/2

Segment ST / SL-13 Subdivision _____ Date (mo / day / yr) 4/4/90

Time (24 hr) 15:53 Biologist SPIGHT

(A) Substrate type and % of segments:
(1) Bedrock ____ (2) Boulder ____ (3) Cobble 100 (4) Pebble ____ (5) Sand ____ (6) Silt ____

(B) Overall % cover of biota (% of segment): Dense 20 Moderate 30 Low 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 (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	3	3	3	3	X	3	3	3	3	3	NOT PRESEN
4	4	4	4	4	4	4	4	4	4	4	4	
5	5	5	5	5	5	5	5	5	5	5	5	
6	6	6	6	6	6	6	6	6	6	6	6	

MYTILUS

Dense			Moderate			Sparse			Rare			
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	3	3	3	3	X	3	3	3	3	3	NOT PRESEN
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			
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	3	3	3	3	X	3	3	3	3	3	NOT PRESEN
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	X	3	3	3	3	X	3	3	3	3	3	NOT PRESEN
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: Left area ~ 1620 est W = < 3 ft. thus all obs refer to ML. UL sedentary spp occasional.
At ML: Area of B. carinosus cobble; above it dense bed of Mytilus attached in nooks betw cobbles or in some areas (near river) forming primary habitat. Appreciable bare cobble in area so overall

ACE 1852749

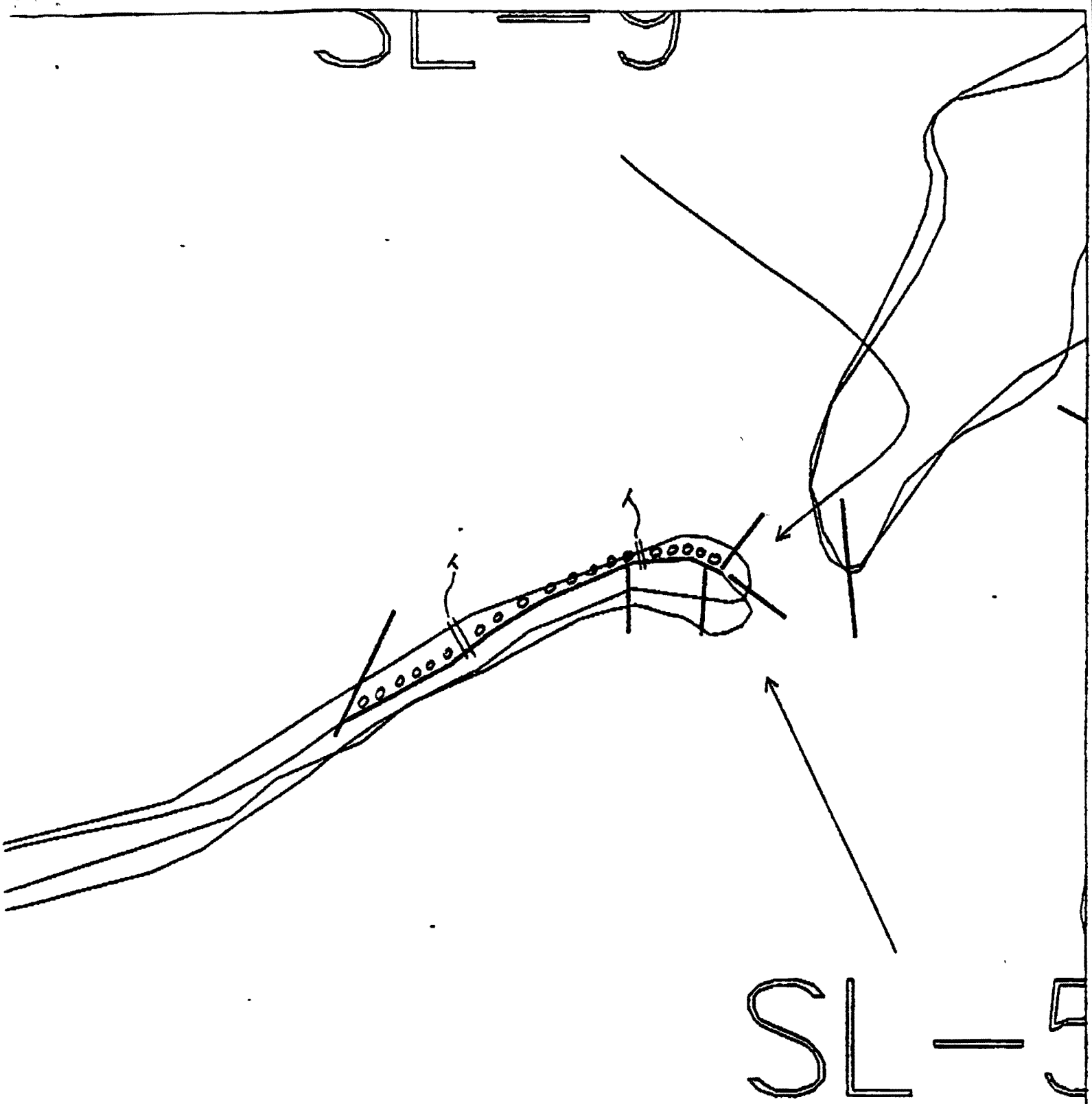
KODIAK ECOLOGICAL CONSTRAINTS

SL-013 "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	**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 unoiled 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.

ACE 1852750



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

SL-13

ADEC Segment Length: 468m

Map Key: GOA-277
Name: Shoa Peninsula
Date: 4-4-95

ACE 1852751 -/S

SHORELINE EVALUATION

SEGMENT ST/ K06-34-SL-014 SUBDIVISION A (1 OF 1) DATE 4/7/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:
Salmon stream mouth no. ASC #256-40, #10010
1A Salmon stream mouth - fry outmigration (4/15 to 7/31)
1B Salmon stream mouth - spawning (7/15 to 9/10;PEAK 8/15)
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 Holmes DATE: 4/17/90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 39 m: No Oil 1347 m
Subsurface Oil Observed: Yes____ No X Maximum Depth_____

RECOMMENDATIONS:

X 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: 4/16/90.
ADEC Al Pregulen
EXXON Andy Ten Bruggencate
NOAA Bill Wescott
USCG G.A. REITER G.A. Reiter

FOSC: [signature] DATE: 5-12-90

ACE 1852752 +15

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / KO634/SL014 SUBDIVISION: A DATE 4-4-90

~~NSEA~~ ~~USCG~~
NAME John Naughton SIGNATURE John J. Naughton

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED
COMMENTS

Only a few splattons of oil seen on several logs in the massive debris berm. This coastline facing the Shelikof Strait is very high energy.

ADEC
NAME Scott Shelton SIGNATURE Scott Shelton

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED
COMMENTS KO634/SL014 Sub. A

TEAM 19 walked 1400 meters. Oil splatters observed on storm Berm drift. NO other Oil observed 6 Subsurface Pits. NO Oil observed in subsurface Shelikof exposure High energy Cobble beach.

LAND MANAGER
NAME John Merrick SIGNATURE John Merrick Konias, Inc

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED
COMMENTS

ACE 1852753

SHORELINE OILING SUMMARY

REVISION NO. 03/22/90

OG Penland NOAA ~~USCG~~ Naughton SEGMENT ST/ KO634 / SC014
BIO Speight LAND REP Merrick KONIAG SUBDIVISION 9
EXXON Byers ADEC Shelton TIME 15 : 30 to 16 : 15
TEAM NO.: 19 TIDE LEVEL: +4.4 ft to +3.5 ft DATE 4 / 4 / 90
EST. SUBDIVISION LENGTH: 1406 m ☐ Sun ☐ Clouds ☐ Fog ☐ Rain ☒ Snow
UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock Log Debris
SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: S to N
SURFACE SEDIMENTS: R 0 % B 10 % C 80 % P 10 % G 0 % S 0 % M 0 % 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 15 m NO 1391 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR					IMPACTED ZONES			
	ro	rs	rp	rs	BR	RW	SL	TL		su	ui	mi	li
ASPHALT PAVEMENT													
POOLED													
COVER													
COAT													
STAIN				X		X				X			
MOUSSE													
PATTIES													
TARBALLS													
FILM													
NO OIL											X	X	X

PAVEMENT: H F S 0 sq m by 0 cm
PATTIES / TARBALLS 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 - 4
Frames 29 - 31

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CM)	BELOW		OIL / FILM COLOR						PIT ZONE				ANA	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UO	UC	BR	RW	SL	TL			su	ui	mi	li		
1	15					X	-										X				cobbles
2	15					X	-										X				cobbles
3	15					X	-										X				cobbles
4	15					X	-										X				cobbles
5	15					X	-										X				cobbles
6	15					X	-										X				cobbles

COMMENTS
- Three areas of 1m x 5m stain on log debris.
- No oil observed in shallow pits on on the intertidal beachface.
- Six pits were dug and in many other areas cobbles were routinely overturned.

ACE 1852754

G Kodiak

EGMENT ST/ K0634/SL014

UBDIVISION A

ATE 4 / 4 90

SKETCH MAP

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 △

t - No Subsurface Oil

2 ▲

t - Subsurface Oil

CT/C

CT/B

CT/P

CT/S

Cobbles
Beach Face

Boulder/Cobble
Low Tide Terrace

Shelikof
Strait

Storm Debris, Log, Trash,
Fish Gear, etc.....

Profile

Sturgeon Lagoon

N

0 100m

Character Length (m): AP 0 PO 0 CV 0 CT 0 ST 15 MS 0 PT 0 TB 0 FL 0 NO 1391

ACE 1852755

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22/

Segment ST / SL-14 Subdivision _____ Date (mo / day / yr) 4/4/10

Time (24 hr) 15:32 Biologist SPIGHT

(A) Substrate type and % of segments:
(1) Bedrock____ (2) Boulder____ (3) Cobble 100 (4) Pebble____ (5) Sand____ (6) Silt____

(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 (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	X	X	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	

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	X	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	

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	X	3	X	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	X	X	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:
Deer, Bear signs

Ecological Considerations: Left area 15:53 est W = +3 ft (tide falling) thus all obs refer to ML.
Generally sparse fauna on cobbles. Individual cobbles at ML may have moderate fauna; neighbors typically bare. Smooth, large littorine very abundant 1A, 1B, 8AA

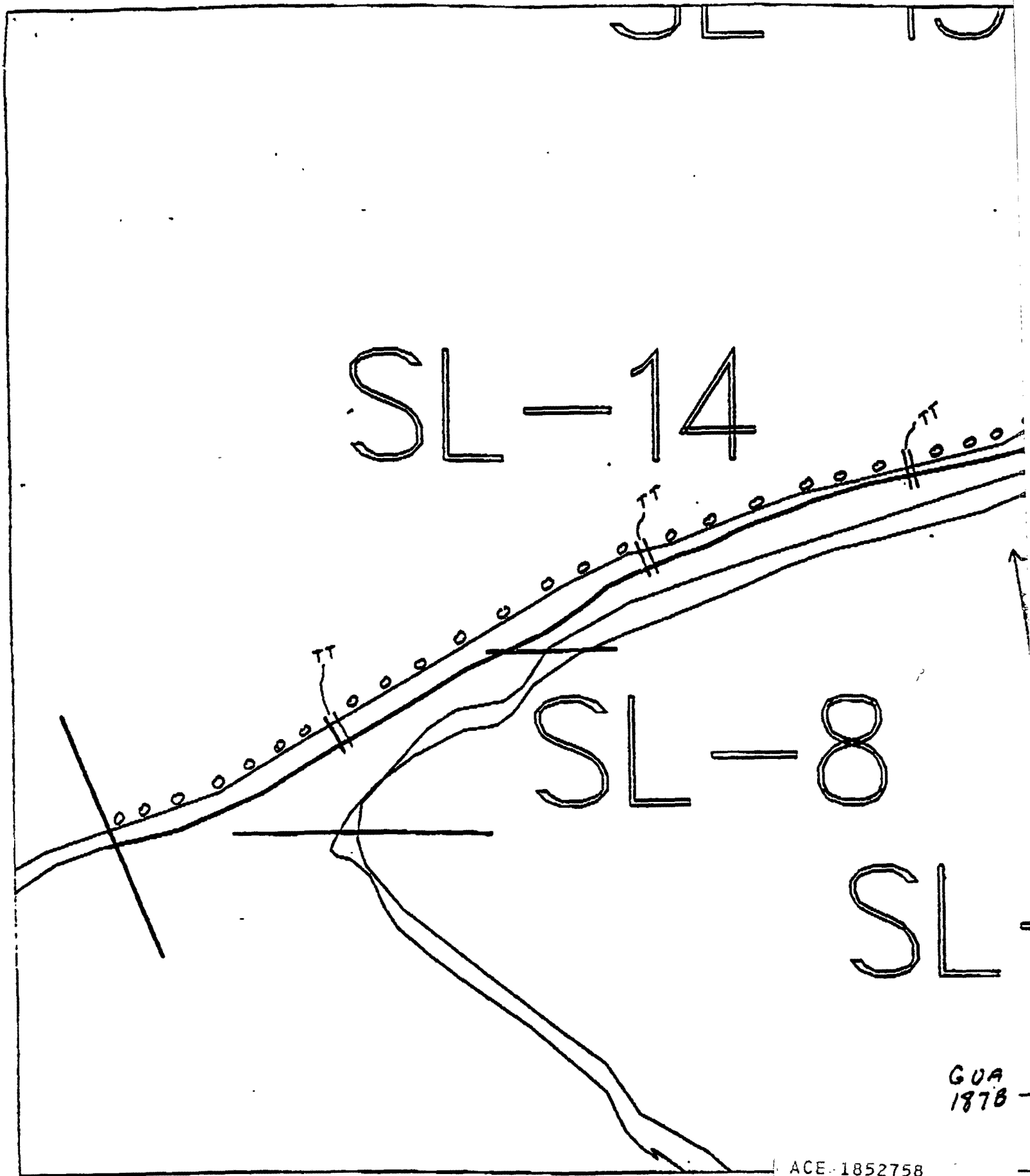
ACE 1852756

ASG # 25-42 # 1001B

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 unoiled 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.	

ACE 1852757



GOA
187B

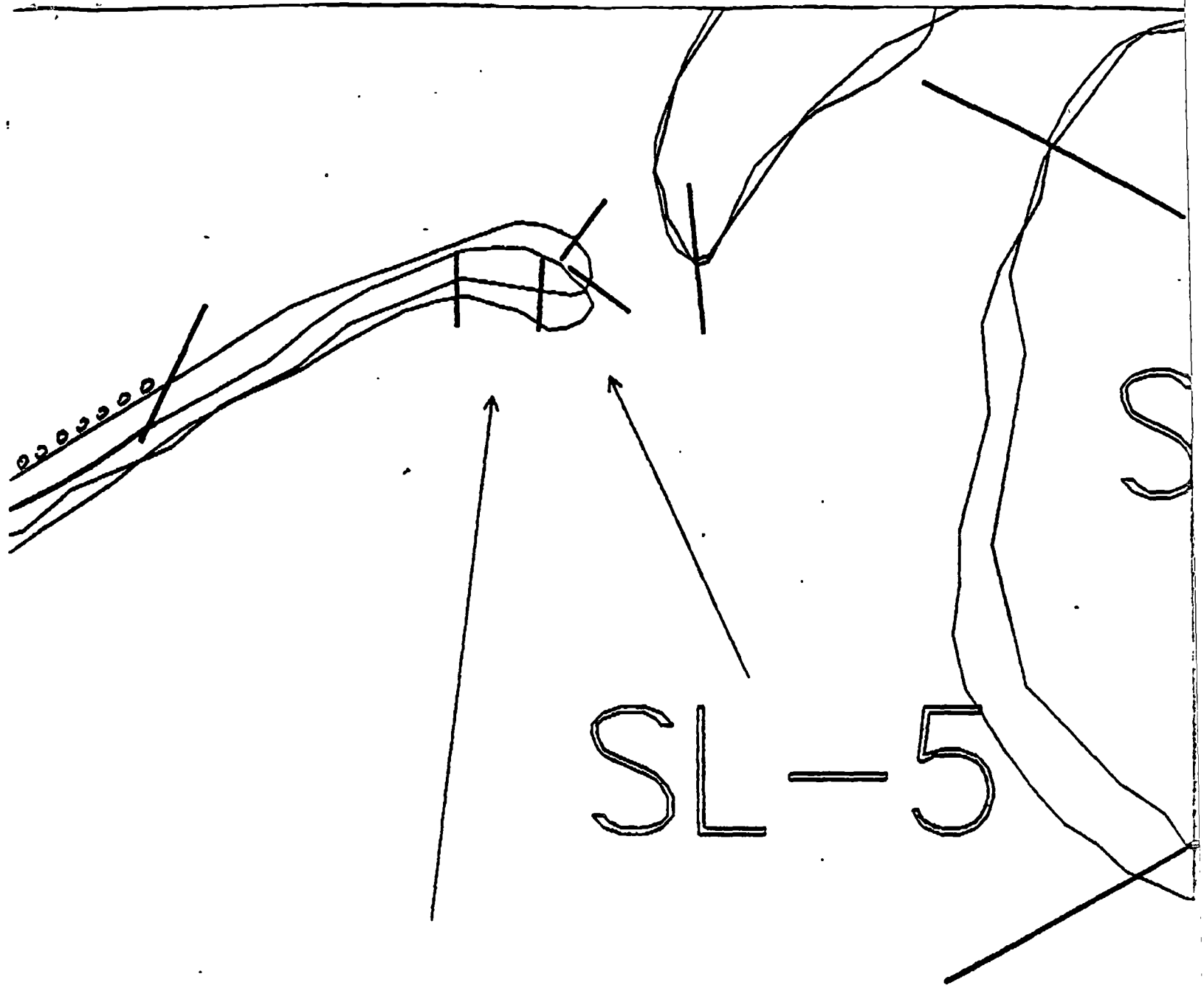
ACE-1852758

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

SL-14

ADEC Segment Length: 1406m

Map Key: GOA-187a
Name: Shea Peninsula
Date: 4-4-90



← GOA 187A

XXXX Wide
//// Medium
---- Narrow

SL-14

ADEC Segment Length: 1406m

Map Key: GOA-187b

Name: Shoa Penland

ACE 1852759-15

File copy

WJ

SHORELINE EVALUATION

SEGMENT ST/ K06-34-SL-15 SUBDIVISION A (1 OF 1) DATE 4/4/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:
Salmon stream mouth no. ASC#256-40, #10010
Salmon stream outmigration (1A) - 3/1 to 5/15 and spawning (1B) - 7/10 to 8/31. No disturbance of stream bed or banks unless authorized by ADF&G. Contact ADF&G Habitat Division prior to treatment for permits. Sensitive estuary (8AA).

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

ARCHAEOLOGICAL CONSTRAINT: 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.)).** RSO

SHPO SIGNATURE: Rachel Gasaway DATE: 6/20/90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 25 m: No Oil 1276 m
Subsurface Oil Observed: Yes____ No X Maximum Depth_____

RECOMMENDATIONS:

_____No Treatment Recommended	_____Snare/Absorbent Booms
X Treatment Recommended	_____Oil Snares (pom poms)
X Manual Pickup	_____Absorbents (pads,rolls,etc)
_____Bioremediation	_____Spot Washing:_____Wands
_____Tarmat: _____Breakup	_____ Beach Cleaner
_____Removal	_____Other (see comments)

COMMENTS: Manual pick up of mousse and oil spill related debris. Work before 7/10.

TAG COMMENTS:

TAG APPROVAL DATE: 4/16/90.
ADEC Pat Kocan
EXXON Hunt Tear
NOAA Burl Wescott
USCG C.A. Reiter

FOSC: _____ DATE: 6-27-90

ACE 1852760+1S

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / K6-34-SL-15 SUBDIVISION: K6-34-SL-15A DATE 4/4/90

USCG
NAME D.D. Haven Jr. GM3, USCGR SIGNATURE D.D. Haven Jr.

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED
COMMENTS

This area is very lightly impacted according to OG. I was inspecting a separate area at the time. Normally, I would not recommend clean up for this degree of impact, but there is leftover clean up debri in nearby segments and while there are workers in the area, they may as well pick-up any removable oil/mousse.

ADEC
NAME Francine J. Bennis SIGNATURE Francine J. Bennis

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED
COMMENTS

Treatment for other segments in Sturgeon Lagoon is recommended. It'd be a good idea for the clean-up crew to attend to this area to manually collect any retrievable oil.

SSAT Field maps should accompany clean-up crews.

LAND MANAGER
NAME JOHN P. HARDISTER SIGNATURE John P. Hardister USFWS

~~☐ NO TREATMENT RECOMMENDED~~ ~~☒ TREATMENT SUGGESTED~~
COMMENTS

Impact by oil is light. Incidental cleanup by crews in adjacent areas is warranted.

John Merrick John Merrick Konias, Inc.

Concur with above

ACE 1852761

REVISION NO. 00/21/89

SHORELINE OILING SUMMARY

REVISION NO. 03/22/90

OG Acton USCG Hewen SEGMENT ST/ KG-34-SL-15
BIO Davis LAND REP USFWS Hardister SUBDIVISION KG-34-SL-15A
EXXON Avery ADEC Bennis TIME 2:30 to 3:15
TEAM NO.: 20 TIDE LEVEL: +6 to +4.5 DATE 4/4/90
EST. SUBDIVISION LENGTH: 1330 m ☐ Sun ☐ Clouds ☐ Fog ☐ Rain ☒ Snow
UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock
SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: S to N
SURFACE SEDIMENTS: R 0 % B 0 % C 25 % P 25 % G 15 % S 50 % M 25 % 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 30 m NO 1300 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR					IMPACTED ZONES			
	/C	/B	/P	/S	SBL/BR	DBL/RW	OY/SL	DBR/TL	LBR	SU	UI	MI	LI
ASPHALT PAVEMENT													
POOLED													
COVER													
COAT				✓		✓						✓	
STAIN													
MOUSSE			✓					✓				✓	
PATTIES													
TARBALLS													
FILM													
NO OIL										✓	✓		✓

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 N/A
#BAGS 0

Photographs:
Roll No. 20-3
Frames 7-10

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CM)	BELOW		OIL / FILM COLOR					PIT ZONE				ANA	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UO	UC	SBL/BR	DBL/RW	OY/SL	DBR/TL	LBR	SU	UI	MI	LI		
1	40					✓	-									✓				m G P
2	40					✓	-										✓			m G P
3	30					✓	-									✓				m G P
4	30					✓	-										✓			m G P
5	30					✓	-									✓				m G
							-													

COMMENTS 3m x 30m band of m s/p and CT/s, (<5% coverage) on and around surface cobbles/pebbles. No subsurface or other oil was observed. Walked entire segment

↓
Band in in upper MITZ

ACE 1852762

Acton

ENT ST/ KL-34-sc-15

VISION KL-34-sc-15

/ 90

KLIST

row
vox. Scale
/Sub Bndry
Dist.
th
gth
Cover
ssure Character
HWL/LWL
ple Location(s)
Zone(s)
Location(s)
ple Location(s)

END

△

Subsurface Oil

▲

surface Oil

T/C

ous Distribution

T/B

Distribution

T/P

Distribution

T/S

d Distribution

igetation

ication, direction,
ion

ACE 1852763

SKETCH MAP

Approx Scale
1cm ≃ 100m

N↑

Sheikof Strait

Segment Boundary

Sturgeon Bay

3m x 30m area MS/P and CT/S

MANUAL REMOVAL OF MOUSSE & DEBRIS

A

A'

20-3 7,9,10

20-3 #8

A-A' ≃

Drift wood Buried

mud/grass

SSL

Hwl

3m Band of MS/P and CT/S in upper MIT2

angular pebbles and cobbles

mud

LWL

Segment Boundary

acter Length (m): AP 0 PO 0 CV 0 CT 30 ST 0 MS 30 PT 0 TB 0 FL 0 NO 1300

REVISION:03/24/98

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22/90

Segment ST / K06-34 Subdivision SL-15A Date (mo / day / yr) 4-4-90

Time (24 hr) 14:30 Biologist H. Davis

(A) Substrate type and % of segments:
(1) Bedrock ____ (2) Boulder ____ (3) Cobble 25 (4) Pebble 50 (5) Sand 10 (6) Silt 25

(B) Overall % cover of biota (% of segment): Dense ____ Moderate 50% Low 50% (25%)

(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-20-3
Frames 7-12

BARNACLES

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

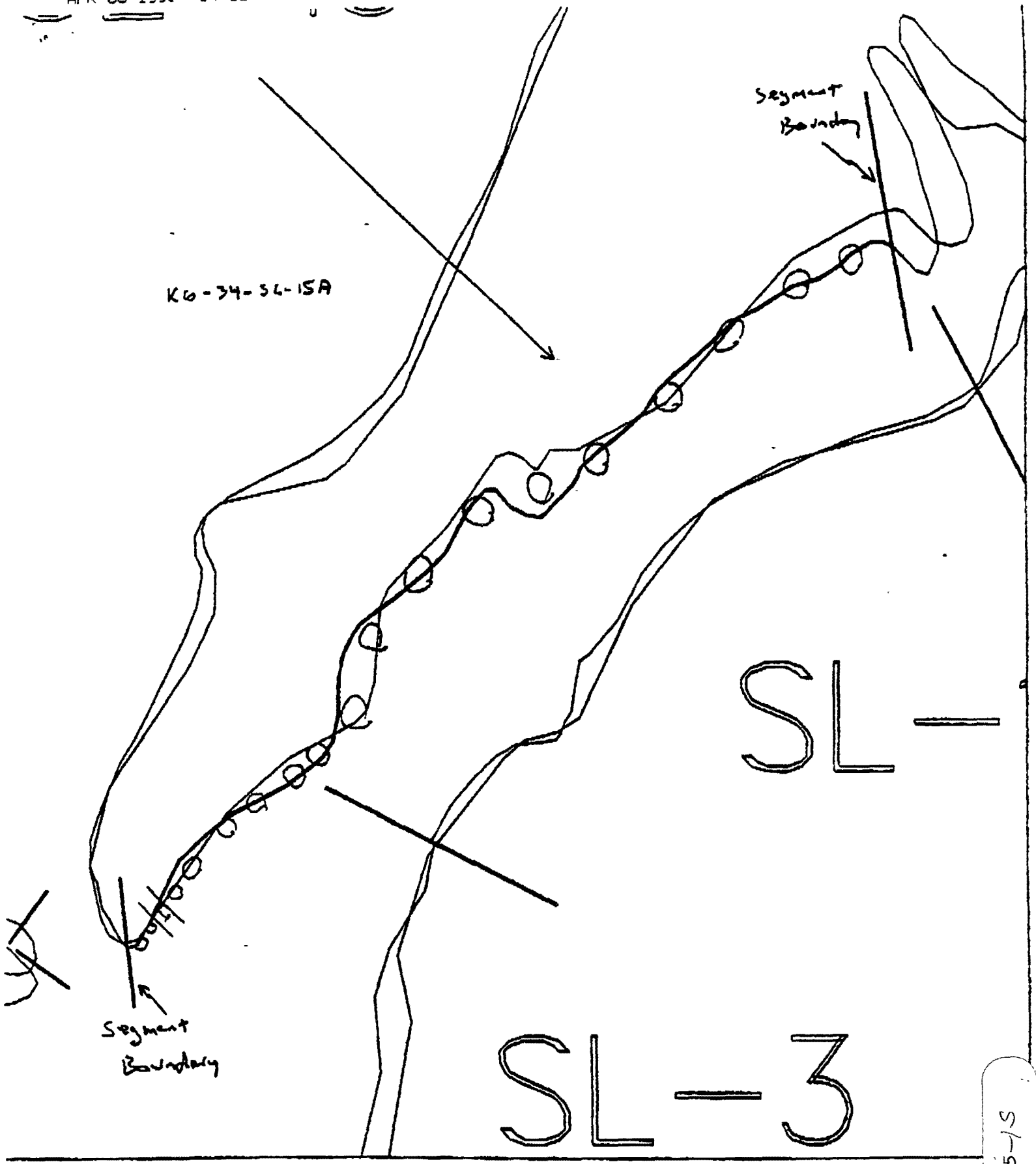
FUCUS

Dense			Moderate			Sparse			Rare			
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L	
2	2	2	2	2	2	2	X	2	2	2	2	
3	3	3	3	3	3	3	X	X	3	X	X	NOT PRESENT
4	4	4	4	4	4	4	X	X	4	X	X	1, 2, 5, 6
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: On the center of the channel zostra beds were visible. Mallards (5-6), Pintails (20-30) and glaucous winged gulls were feeding in the area. At the western end of section SL-15 the barnacle population is sparse but continuous. As the number of cobbles and pebbles decreases to the east so does the number of barnacles. Fucus appears sporadically as moderate to sparse patches. Gastropods were sparse. Empty both adults and juveniles were observed in the area.

Ecological Considerations: (1A, 1B, 8AR) The estuary and river areas are food sources for many species of birds, mammals and fish. It is a spawning area for Pink, Chum, Coho, Steelhead and Rainbow.

ACE 1852764



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

SL-15

ADEC Segment Length: 1331m

0 100 200 300

KG-34 SL-15A
Map Key: GOA-188
Name: Acton
Date: 4-4-90

ACE 1852765-/S

SHORELINE EVALUATION

SEGMENT ST/ K06-34-SL-016 SUBDIVISION A (1 OF 1) DATE 4/4/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:
Salmon stream mouth no. ASC #256-40, #10010
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. Holmes DATE: 4/17/90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 0 m: No Oil 1921 m
Subsurface Oil Observed: Yes____ No X Maximum Depth_____

RECOMMENDATIONS:

X 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: 4/16/90
ADEC Pat Kosten
EXXON Andy Teas FOSC: [signature] DATE: 4-20-90
NOAA Bill Wescott
USCG G.A. Reiter

ACE 1852766 +1S

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / K6-34-SL-16 SUBDIVISION: K6-34-SL-16 A DATE 4/4/90

USCG
NAME D.D. Haven Jr. GM3, USCGR SIGNATURE D.D. Haven Jr.

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED
COMMENTS

No oil sighted.

ADEC
NAME Francine J. Bennis SIGNATURE Francine J. Bennis

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED
COMMENTS

Walked entire segment. NO OIL OBSERVED.

LAND MANAGER
NAME JOHN P. HAEDISTER SIGNATURE John P. Haedister

~~☐ NO TREATMENT RECOMMENDED~~ ~~☐ TREATMENT SUGGESTED~~
COMMENTS

No oil observed

John Merrick

No oil - no clean up

John Merrick Konos. Inc

REVISION NO. 03/21/90

ACE 1852767

SHORELINE OILING SUMMARY

REVISION NO 032290

OG Acton USCG Haven SEGMENT ST/ K6-34-SL-16
BIO Davis LAND REP USFWS Hardisty/Fl SUBDIVISION K6-34-SL-16A
EXXON Allen ADEC Dennis TIME 3:15 to 4:00
TEAM NO.: 20 TIDE LEVEL: +4.5 to +3.5 DATE 4/4/90
EST. SUBDIVISION LENGTH: 2011 m ☐ Sun ☐ Clouds ☐ Fog ☐ Rain ☒ Snow
UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock
SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: N to S
SURFACE SEDIMENTS: R 0 % B 0 % C 0 % P 15 % G 15 % S 20 % M 50 % 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 0 m NO 2011 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR					IMPACTED ZONES			
	/C	/B	/P	/S	SBR/BR	DBR/RW	GY/SL	DBR/TL	LBR	SU	UI	MI	U
ASPHALT PAVEMENT													
POOLED													
COVER													
COAT													
STAIN													
MOUSSE													
PATTIES													
TARBALLS													
FILM													
NO OIL										✓	✓	✓	✓

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. 0

Frames 0

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CM)	BELOW		OIL / FILM COLOR					PIT ZONE				ANA	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UO	UC	SBR/BR	DBR/RW	GY/SL	DBR/TL	LBR	SU	UI	MI	U		
1	30					✓	-										✓			m s g
2	30					✓	-									✓				m s g
3	30					✓	-										✓			m s g p
4	30					✓	-									✓				m s g
5	30					✓	-										✓			m s g p
6	30					✓	-									✓				m s g

COMMENTS No oil observed in this segment, which is comprised of an estuarine marsh with many small arms/tributaries. Walked entire segment.

REVIEWED JW DATE 4/9/96

ACE 1852768

SEGMENT ST/ KG-34-SL-16

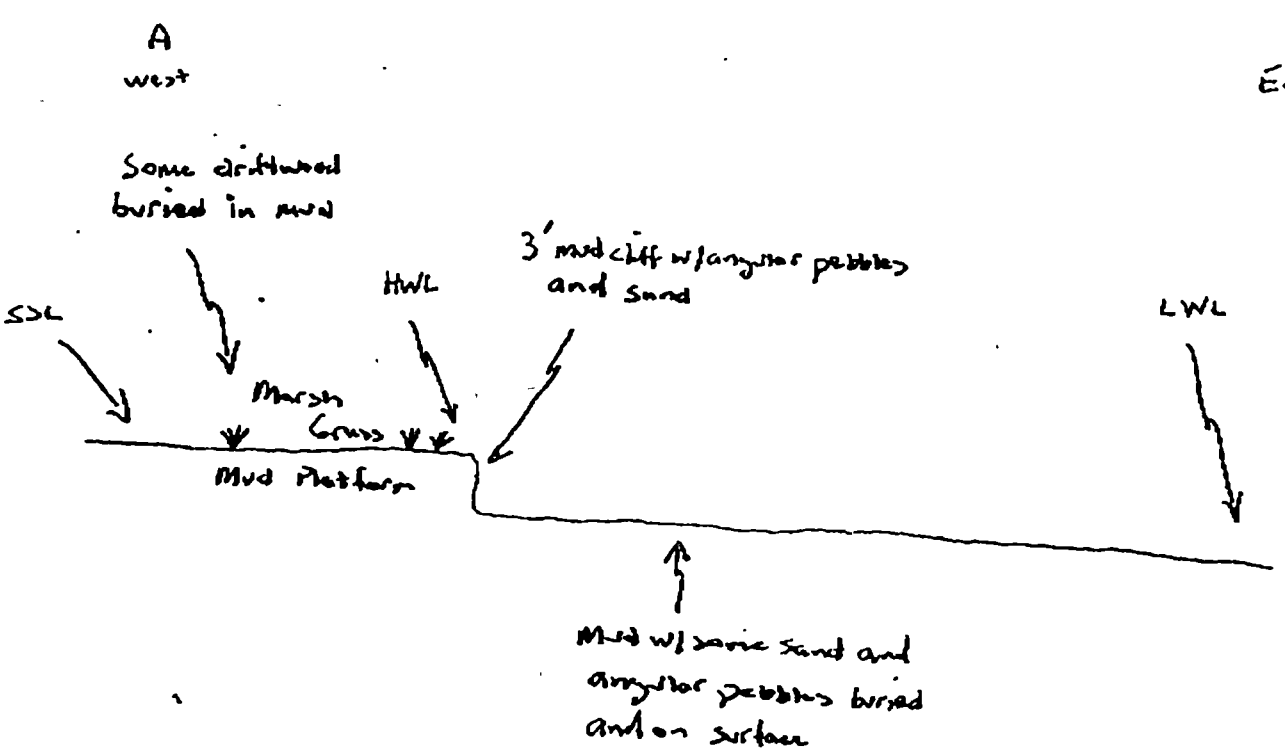
SUBDIVISION KG-34-SL-16A

DATE 4 / 4 90

SKETCH MAP

Typical Profile w/in segment

A-A' ≈ 20 m



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

Oil Character Length (m): AP 0 PO 0 CV 0 CT 0 ST 0 MS 0 PT 0 TB 0 FL 0 NO 20)1

REVISION: 03/24/89

ACE 1852769

OG Acton

SEGMENT ST/ Kk-34-SL-No

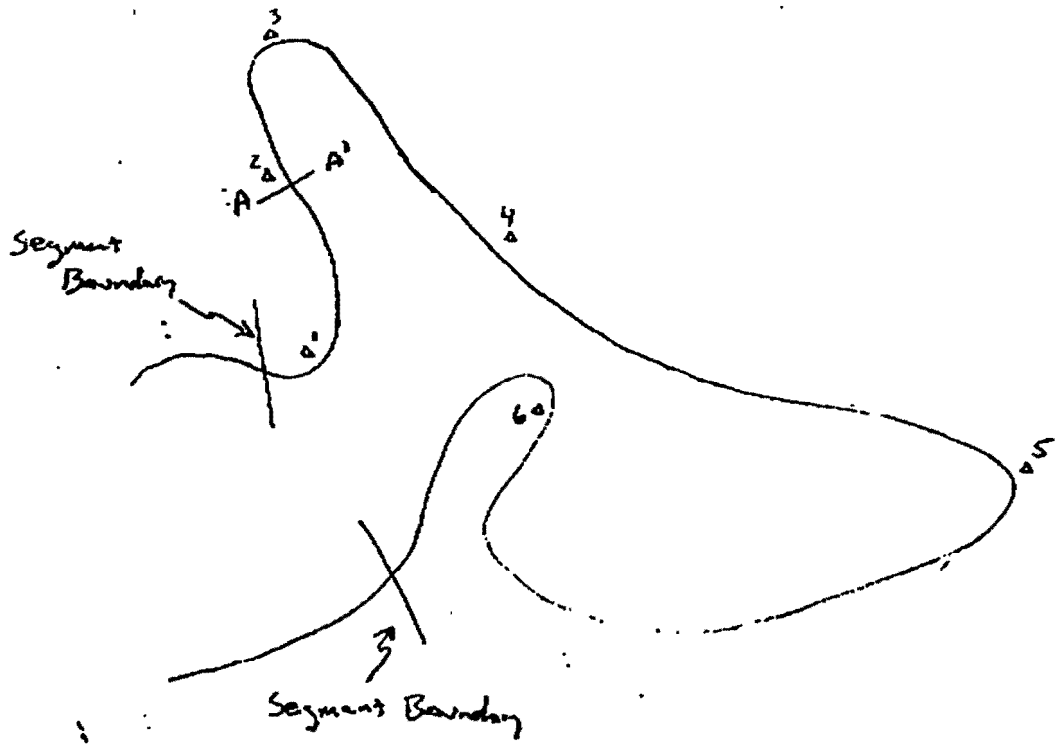
SUBDIVISION Kk-34-SL-NoA

DATE 4 / 4 90

SKETCH MAP

Approx Scale
1cm = 100m

N ↑



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

ACE 1852770

Oil Character Length (m): AP ( ) PO ( ) CV ( ) CT ( ) ST ( ) MS ( ) PT ( ) TB ( ) FL ( ) NO 2011

REVISION:02/24/92

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22/90

Segment ST / KOG-34 Subdivision SL-16A Date (mo / day / yr) 4-4-90

Time (24 hr) 14:30 Biologist H. Davis

(A) Substrate type and % of segments:
(1) Bedrock ____ (2) Boulder ____ (3) Cobble 5 (4) Pebble 25 (5) Sand 20 (6) Silt 50

(B) Overall % cover of biota (% of segment): Dense ____ Moderate ____ Low 100% (10%)

(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	X	3	X	3	X
4	4	4	4	4	4	4	X	4	X	4	X
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 1, 2, 5, 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	X	3
4	4	4	4	4	4	4	4	4	X	X	4
5	5	5	5	5	5	5	5	5	5	5	X
6	6	6	6	6	6	6	6	6	6	6	6

NOT PRESENT 1, 2, 5, 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
3	3	3	3	3	3	3	X	X	X	3	3
4	4	4	4	4	4	4	X	4	X	4	X
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 1, 2, 5, 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	X	X	X
4	4	4	4	4	4	4	4	4	4	X	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 1, 2, 5, 6

Wildlife Observations/ General Comments: This area is an estuarian marsh (30-40 ducks, (30-40) Glaucous winged gulls, (±20) mallards, (4) adult eagles, (2) juvenile eagles, and 3-4 Harlequin ducks. Deer tracks, River otter tracks, and fox tracks were seen on the shore line. One Red Fox observed. Barnacles, mytilus, gastropods and Fucus were found sporadically on cobbles. Diatom mats and filimentous algae covered the bottom of rivulets and small arms of the intertidal area.

Ecological Considerations: (1A, 1B, & AA) The estuary and river areas are used by birds and several species of trout and salmon. Pink, Chum, Coho, Steelhead and Rainbow all spawn in the Sturgeon river.

ACE 1852771

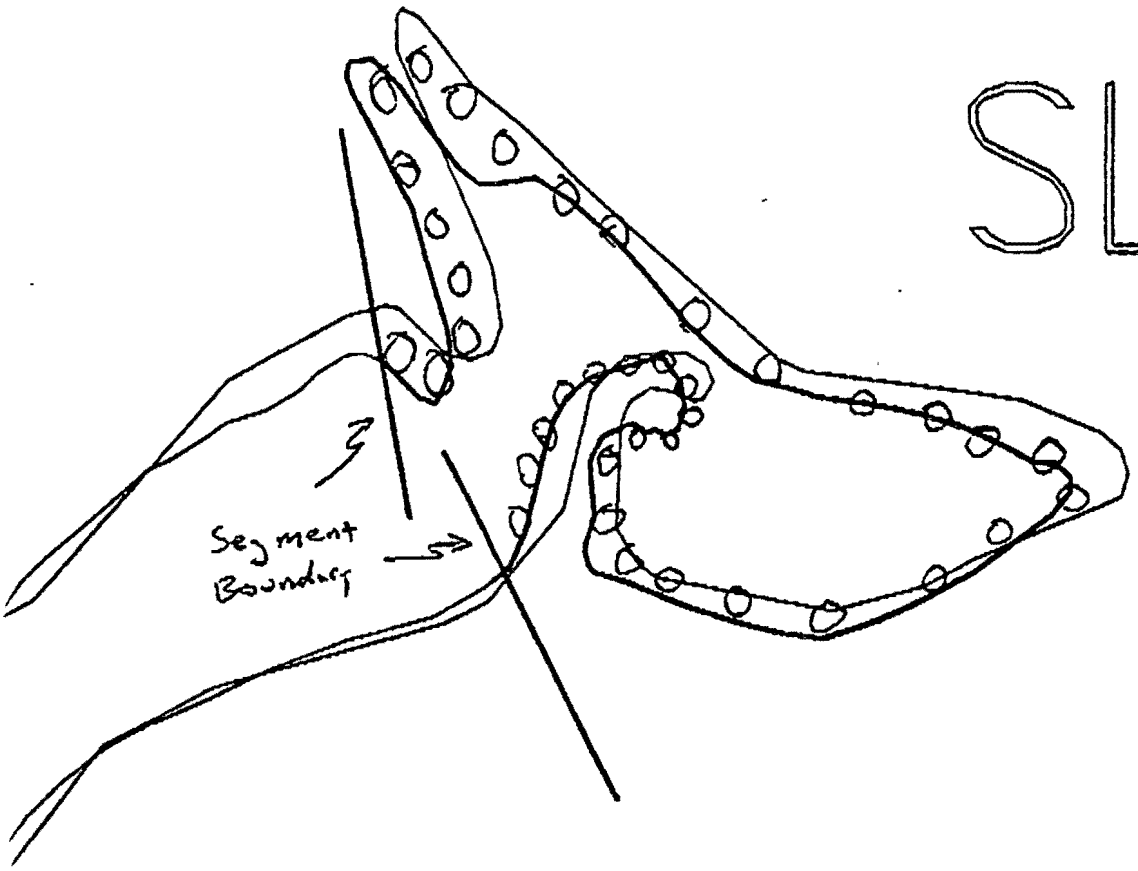
KODIAK ECOLOGICAL CONSTRAINTS

SL-016-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	**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 unoiled 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.	

ACE 1852772

K6-34~SL-16A



XXX Wide
/// Medium
--- Narrow
TTT Very Light
000 No Oil

SL-16

ADEC Segment Length: 2011m

0 100 200 500
METERS

K6-34-SL-16A
Map Key: GOA-189
Name: Acton
Date: 4-4-90
Data Entered:

ACE 1852773-/S

SHORELINE EVALUATION

SEGMENT ST/ K06-34-SL-17 SUBDIVISION A (1 OF 1) DATE 4/7/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:
Salmon stream mouth no. 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 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: April 14, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 0 m: No Oil 880 m
Subsurface Oil Observed: Yes____ No X Maximum Depth_____

RECOMMENDATIONS:

_____No Treatment Recommended	_____Snare/Absorbent Booms
X Treatment Recommended	_____Oil Snares (pom poms)
X Manual Pickup	_____Absorbents (pads,rolls,etc)
_____Bioremediation	_____Spot Washing:_____Wands
_____Tarmat: _____Breakup	_____ Beach Cleaner
_____Removal	_____Other (see comments)

COMMENTS: Manual pick up of oil snare boom between 3/15 and 7/10.

TAG COMMENTS:

TAG APPROVAL DATE: 4/14/90
ADEC Art Weaver Art Weaver
EXXON ANDY TGR
NOAA Burl Wescott
USCG G.A. REITER G.A. Reiter

FOSC: _____ DATE: 5-23-90

ACE 1852774 +|S

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / K6-34-SL-17 SUBDIVISION: K6-34-SL-17-A DATE 4/4/90

USCG
NAME D.D. Haven Jr, GM3, USCGR SIGNATURE [signature]

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED
COMMENTS

No oil sighted.

ADEC
NAME Francine J. Kenau's SIGNATURE [signature]

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED
COMMENTS

No oil observed.
There is, however, a portion of oil-snare boom lying at the top of the UIT2. It should be retrieved.
(See map for location)

LAND MANAGER
NAME JOHN P. HARDISTER SIGNATURE [signature] USFWS

~~☐ NO TREATMENT RECOMMENDED~~ ~~☒ TREATMENT SUGGESTED~~
COMMENTS

No oil observed - concur that oil-snare boom should be removed.

John Merrick John merrick Konigs, Inc
Concur with ADEC recommendation

REVISION NO. 05/21/90

ACE 1852775

SHORELINE OILING SUMMARY

REVISION NO. 03/22/90

OG Acton USCG Haven SEGMENT ST/ Kv-34-36-17
BIO Davis LAND REP USEWS Hand/STSR SUBDIVISION Kv-34-36-17A (1 of 1)
EXXON Avery ADEC Bennis TIME 4:00 to 4:30
TEAM NO.: 20 TIDE LEVEL: +3.5 to +2 DATE 4 / 4 / 90
EST. SUBDIVISION LENGTH: 876 m ☐ Sun ☐ Clouds ☐ Fog ☐ Rain ☒ Snow
UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock
SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: N to S
SURFACE SEDIMENTS: R 0 % B 0 % C 15 % P 10 % G 15 % S 20 % M 40 % 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 0 m NO 876 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR					IMPACTED ZONES			
	/C	/S	/P	/S	BR	DBR/RW	OY/SL	DBR/TL	LBR	SU	UI	MI	LI
ASPHALT PAVEMENT													
POOLED													
COVER													
COAT													
STAIN													
MOUSSE													
PATTIES													
TARBALLS													
FILM													
NO OIL										✓	✓	✓	✓

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

PATTIES / TARBALLS 0 BAGS

NEAR SHORE SHEEN? (NO) SR RW SL TL

OILED DEBRIS	AMOUNT SM	MD	LG
Logs			
Vegetation			
Trash	X		
Debris			

DEBRIS COLLECTED ☒ YES ☐ NO

TYPE Poms Poms // Boom

#BAGS 6

Photographs:

Roll No. 0

Frames 0

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CM)	BELOW		OIL / FILM COLOR						PIT ZONE				ANA	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UO	UC	BR	DBR/RW	OY/SL	DBR/TL	LBR		SU	UI	MI	LI		
1	30					✓	-											✓			M S G
2	30					✓	-										✓				M S G
3	30					✓	-										✓				M S G
4	30					✓	-											✓			M S G
5	30					✓	-										✓				M S G
							-														

COMMENTS No oil was observed in this section. Oil snare boom / pom-poms noted on sketch should be retrieved. Worked entire segment.

ACE 1852776

REVIEWED BAT DATE 7 APR 90

OG Acton

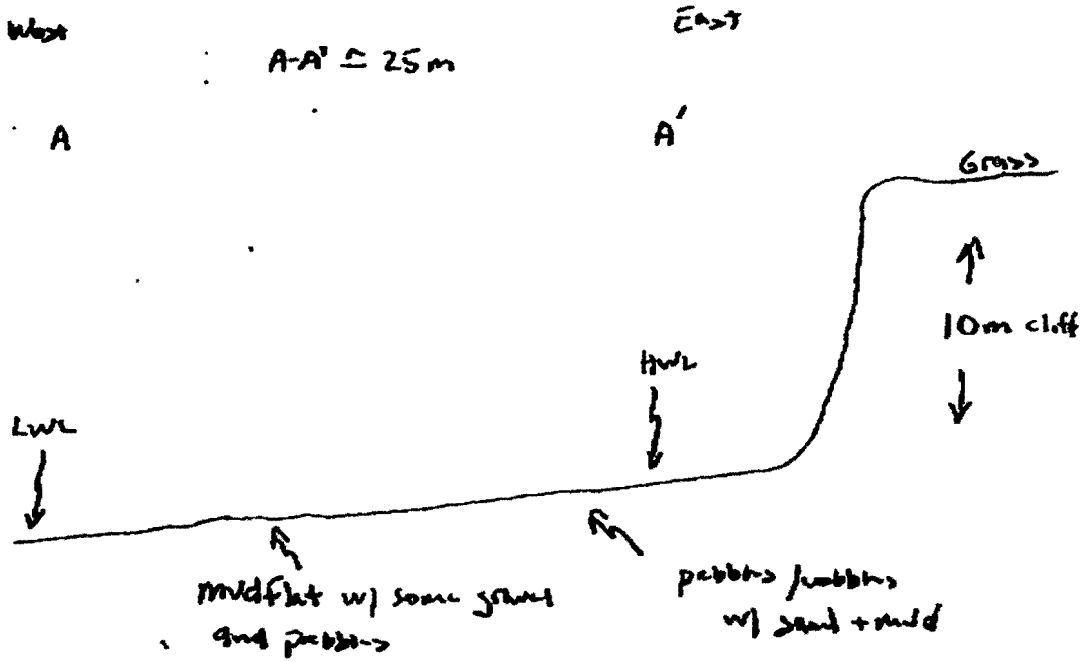
SEGMENT ST/ Ke-34-SL-17

SUBDIVISION Ke-34 SL-17A

DATE 4 / 4 90

SKETCH MAP

Approx Scale 1cm ≈ 5m



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

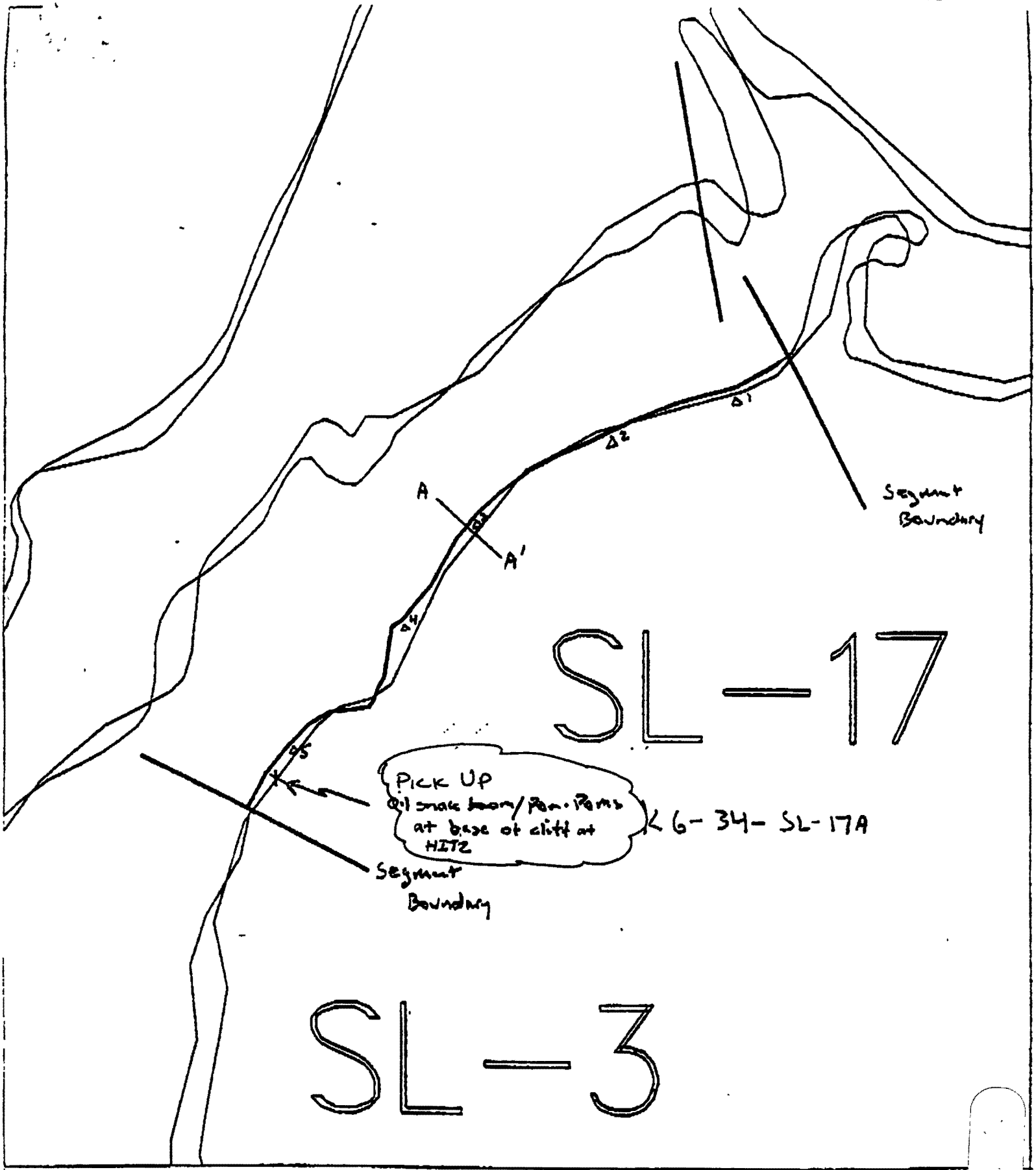
Oiled Vegetation

1 ➔ Photo location, direction, and number

ACE 1852777

Oil Character Length (m): AP 0 PO 0 CV 0 CT 0 ST 0 MS 0 PT 0 TB 0 FL 0 NO 876

REVISION: 03/2000



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

SL-17

ADEC Segment Length: 876m

0 100 200 300
METERS

K6-34-SL-17A
Map Key: GOA-190
Name: Acton
Date: 4-4-90
Data Entered:

ACE 1852778

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22/9

Segment ST / K06-34 Subdivision SL-17A Date (mo / day / yr) 4-4-90

Time (24 hr) 15:30 Biologist H. Davis

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

(B) Overall % cover of biota (% of segment): Dense ____ Moderate 50% Low 50% 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-20-03
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	X	3	3	X	3	X	X	X
4	4	4	4	X	4	4	X	4	X	X	X
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 1, 2, 5, 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	X	X	3	X	X
4	4	4	4	4	4	4	4	4	4	X	X
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 1, 2, 5, 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
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	X	3	3	X	X	3	X	X	3	X	X
4	4	4	4	X	X	4	4	X	4	X	X
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 1, 3, 5, 6

Wildlife Observations/ General Comments: Gastropods and Barnacles were the most common intertidal animals. Fucus was patchy, often individual cobbles would be covered with enough Fucus to float the cobble. A few large limpets were found each on their own cobble, littorina were present on the under side of cobbles and crevices of Barnacle Pintails (60-30) and mallards were feeding over the eelgrass beds. Eagles (juvenile) was seen in the area.

Ecological Considerations: (1A, 1B, & AA) The estuarine area is a major source of food for many species of birds, fish and mammals. Eelgrass beds provide food and protection for the salmon smolt.

ASC # 256-40 # 10010

ACE 1852779

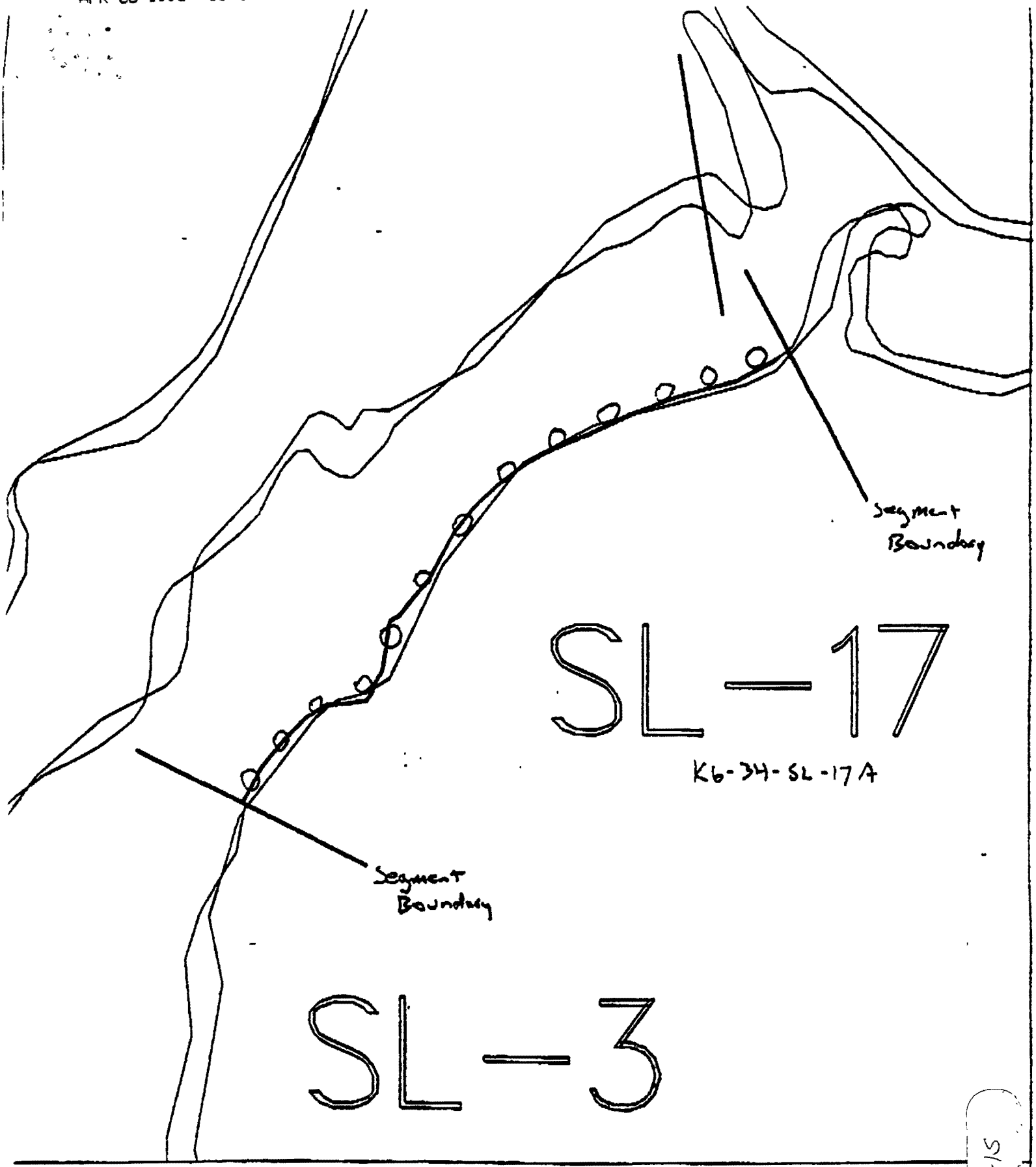
KODIAK ECOLOGICAL CONSTRAINTS

SL-17 -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	**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 unoiled 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, sspecially 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.

ACE 1852780



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

SL-17

ADEC Segment Length: 876m

0 100 200 300
METERS

K6-34-SL17A
Map Key: GOA-190
Name: Acton
Date: 4-6-98
Data Entered:

ACE 1852781 -/S

(1)

STATE OF ALASKA

DEPARTMENT OF FISH AND GAME

STEVE COWPER, GOVERNOR

Rapifax 349-1723

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

RAPIFAX TRANSMITTAL SHEET

TO: Ken middleton
ADF&G Habitat Div. Anch.

DATE: 6/18/90

No. Pages: 6
(including this page)

FROM: J. Barnhart
ADF&G Habitat Div. Kodiak

MESSAGE: Situation with Sturgeon Lagoon segment
KOG-34-SL07.

ACE 1852641+P|FF

(2)

State of Alaska
Department of Fish and Game
Habitat Division

Field Inspection Report

Date 6/18/90 Time 5:30pm

Location: (Logging unit/Road/Waterbody) K06-34-SL07 Sturgeon Lagoon/Stream Kodiak Island

Operator/Contractor: Exxon

Individuals present at time of inspection:

Name	Representing
Fran Bennis	DEC
Tommy Tomlin	Exxon
Dan Haven	USCG

Activity/Situation Observed: On the evening of Sat. June 16, 1990 the USF+WS in Kodiak was notified by Exxon that K6-19 in Spiriden Bay was to be cleaned starting at 0700 hours Sunday June 17, 1990. OTTo Florschutz was the USF+WS rep. on site Sunday morning. Today, he informed me that at approx 0900 hours Sunday morning Exxon made the decision to proceed to Sturgeon Lagoon to clean segment SL-7. The work order specifically states: Contact ADF+G Habitat Division prior to treatment for permits. The work was completed without contacting Habitat Division. As of this time I still have not been contacted by Exxon. I first discovered this today when I called DEC on an unrelated topic.

Pertinent Statutes/Regulations: AS 16.05.870

Recommended/Required Action (Specify): Steps need to be taken to assure compliance with AS 16.05.870 and the work orders.

By (date)_____ (if applicable)

Please note: This is not a final inspection report. It is intended to provide the operator/contractor with a notice of problems or concerns which require immediate attention. If necessary, a final inspection report will be issued at a subsequent date.

Jeffrey Barnhart FBI
Fish and Game Representative/Title

Company Representative/Title

Form 11-88 (1-82)

ACE 1852642

Ken's Desk Copy

STEVE COWPER, GOVERNOR

DEPARTMENT OF FISH AND GAME

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

June 28, 1990

Mr. R.G. Dragnich
Exxon Company, U.S.A.
Alaska Operations
P.O. Box 240409
Anchorage, Alaska
99524-0409

Dear Mr. Dragnich:

Enclosed is a Field Inspection Report from our Kodiak field office citing a particular problem of non-notification that occurred on June 17, 1990.

The area involved is on the west coast of Kodiak Island in segment K09-34-SL-7 (Sturgeon Lagoon). The work order specified that our agency be notified before cleanup operations commenced. The Exxon representative was Tommy Tomlin on the vessel Sea Trader.

We had a number of such problems relating to sudden schedule changes and non-notification, to any agency, early on. Hopefully, these problems have been resolved by now. I am going to Kodiak next week, and will be checking into activities relating to our agency and anadromous streams in particular. I may be contacted at 486-5033 while there.

This report is being sent for your information. Please sign and return the original copy to me at this address.

Incidentially, I wish to report that the helicopter crew under Fred Byar's supervision is doing an excellent job according to my information.

Sincerely,

Kenneth R. Middleton

Kenneth R. Middleton
Field Office Coordinator
Kodiak Field Office

Enclosure

cc: Mark Kuwada

ACE 1852643+15

State of Alaska
Department of Fish and Game
Habitat Division

Field Inspection Report

Date 6/12/90 Time 5:30pm

Location: (Logging unit/Road/Waterbody) K66-34-SL07 Sturgeon Lagoon/Stream Kodiak Island

Operator/Contractor: Exxon

Individuals present at time of inspection:

Name	Representing
Fran Bennis	DEC
Tammy Trimlin	Exxon
Don Haven	USCG

Activity/Situation Observed: On the evening of Sat. June 16, 1990 the USF+WS in Kodiak was notified by Exxon that K6-19 in Spiriden Bay was to be cleaned starting at 0700 hours Sunday June 17, 1990. Otto Fleischutz was the USF+WS rep. on site Sunday morning. Today he informed me that at approx 0900 hours Sunday morning Exxon made the decision to proceed to Sturgeon Lagoon to clean segment SL-7. The work order specifically states: Contact ADF+G Habitat Division prior to treatment for permits. The work was completed without contacting Habitat Division. As of this time I still have not been contacted by Exxon. I first discovered this today when I called DEC on an unrelated topic.

Pertinent Statutes/Regulations: AS 16.05.870

Recommended/Required Action (Specify): Steps need to be taken to assure compliance with AS 16.05.870 and the work orders.

By (date) _____ (if applicable)

Please note: This is not a final inspection report. It is intended to provide the operator/contractor with a notice of problems or concerns which require immediate attention. If necessary, a final inspection report will be issued at a subsequent date.

Jeffrey Burnett FBI
Fish and Game Representative/Title

Company Representative/Title

Form 11-88 (1-82)

ACE 1852644-IS

(3)

SHORELINE EVALUATION

SEGMENT ST/ K06-34-SL-07 SUBDIVISION A (1 OF 1) DATE 4/7/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:
Salmon stream mouth no. 256-40-10010.
Salmon stream outmigration (1A) - 3/1 to 3/15 and spawning (1B) - 7/10 to 8/31. No disturbance of stream bed or banks unless authorized by ADF&G. Contact ADF&G Habitat Division prior to treatment for permits.
Sensitive estuary (8AA).

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). required prior

SHPO SIGNATURE: Charles J Holmes DATE: 4/17/90

OILING CATEGORIZATION:
Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 112½ m: No Oil 0 m
Subsurface Oil Observed: Yes____ No X Maximum Depth_____

RECOMMENDATIONS:

X No Treatment Recommended	____Snare/Absorbent Booms
X Treatment Recommended	____Oil Snares (pom poms)
X Manual Pickup	____Absorbents (pads,rolls,etc)
____Bioremediation	____Spot Washing:____Wands
____Tarmat: ____Breakup	____ Beach Cleaner
____Removal	____Other (see comments)

COMMENTS:

TAG COMMENTS:
DUE TO THE ENVIRONMENTAL SENSITIVITIES AND RESOURCE USE MANUAL PICK UP OF MOUSSE PATTIES REQUIRED.

TAG APPROVAL DATE: 4/14/90.
ADEC Art Weiner Art Weiner
EXXON Andy Teas
NOAA Burt Wright Burt Wright
USCG G.A. Reiter G.A. Reiter

FOSC: DATE: 5-1-90

ACE 1852645

(4)

DEMOBILIZATION REPORT

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

K6-34

SEGMENT NUMBER SL-007 DATE 6-17-90
SUB DIVISION

Has work been completed as stated on the work order?

Yes

Is there additional oil remaining?

Very little

Do you recommend further treatment?

No

What is the recommended treatment method?

Describe amount of oil remaining- size area and location

Residual stains, coat

Date and Time of demobilization from segment "C"

6-17-90 @ 20:00

COMPLETE THIS FORM AND FAX TO ANCHORAGE AFTER DEMOBILIZATION FROM EACH SEGMENT

Additional Comments

NAME Fran Bennis
VESSEL NAME M/V 'Sea Trader'
TEAM # 9
EXXON Tommy Tomlin
COAST GUARD Don Haveen
VECO
Clyde (Zack) Katelinkoff

(5)

ADEC DAILY SHORELINE ASSESSMENT

LOCATION: K6-34 Sturgeon Lagoon SEG SL-007 SUBSEG A
MONITOR(S): Fran Bennis
DATE: 6-17-90 TIME: BEGIN 16:45 END 20:00

TIDES: TIME: HEIGHT:
LOW 03:59 2.9'
HIGH 10:05 13.2'
LOW 17:04 4.2'
HIGH 22:22 14.7'
(Seldovia)

WEATHER: (CLOUDY) (RAIN) FOG SUN
TEMP: 55°F SEA COND: Calm
WIND DIR: N-NE-E-SE-S-SW-W-NW
WIND SPEED (KNOTS): (0-15) 16-30 30+

ENVIRONMENTAL CONSTRAINTS: (SEAL HAULOUTS, EAGLE NESTS, MUSSEL BEDS, ETC.) 1A, 1B Salmon stream (256-40-10010)
No constraint to manual pickup.

WAVE EXPOSURE: LOW MED HIGH
ACROSS SHORE ZONE: SU UITZ MITZ LITZ

SURFACE SEDIMENTS: R___% B___% C___% P___% G___% S___%
SUBSURFACE SEDIMENTS: R___% B___% C___% P___% G___% S___%

OIL CHARACTERISTICS

SURFACE: POOLED - (MOUSSE) - (TARBALL) - (COVER) - COAT - (STAIN)
SUBSURFACE: ~~OP - OR - OF~~

TREATMENT TECHNIQUES

MANUAL RAKING/TILLING
MANUAL REMOVAL: PO-(MS)-AP-TB
SPOT WASHING
OTHER

HEADER FLOOD (HOT/COLD)
BIOREMEDIATION
MECHANICAL

EQUIPMENT USED: Shovels, trowels
NAMES OF REPS & OTHER AGENCIES: EXXON Tommy Tomblin
USCG Don Haven OTHER: No USFWS. Don McBee NPS beach guard.
WORKERS ON SITE: ORTS 9 OTHER:

WASTE HANDLING/DISPOSAL

ITEMS USED TO ABSORB/CONTAIN OIL Sorbants
* # OF BAGS COLLECTED: .10 mud bag
OILED DEBRIS ____ OIL & SEDIMENTS X .08 OILED VEG. X .02
OILED LOGS PRESENT: Y (N) # OF LOGS REMOVED ____

4/20/90 * Mud Bag = super bag 45 cubic feet or 4,000 pounds 2,000 pounds.
so .10 mud bag = 4.5 cubic feet JPB

ACE 1852647+15

PHOTO/VIDEO DOCUMENTATION

PHOTOGRAPHS: ROLL # / FRAME(S): _____ REASON: _____

VIDEO: TAPE # / REASON: _____

COMMENTS

PROBLEMS: ENFORCEMENT ACTIVITIES, UPLAND CONT., ETC.
(PLEASE NOTE IF PROBLEM WAS DISCUSSED WITH PROPER AUTHORITY, AND SUBSEQUENT RESPONSE.)

I expressed concern about having the proper land managers present for execution of work order on SL-007. I discussed this with both the Coast Guard & Exxon reps. I also thought that Kodiak Fish & Game Habitat rep needed to be notified due to salmon streams. I recd word from the Kodiak OSRO that I was to act as the State representative (OEC/FTG), & USFWS did not have jurisdiction here. (Native Corporation perhaps) Work order has been carried out here in this segment.

OBSERVATIONS: TREATMENT EFFICIENCY, POSSIBLE IMPROVEMENTS, ETC.

Sporadic mousse patties were the only recoverable oil here. Adjacent segments here also have work orders for manual treatment. It'd be good to be able to work more than one segment in an area at a time. Hopefully, a more complete set of usable work orders are forthcoming.

Communication between Exxon OPS/Field Ops/Agencies must be clarified in a more timely manner. I'd been notified of the work here only this morning. Land manager representation becomes more difficult than it needs to be under these circumstances.

SIGNATURE _____

ACE 1852648-15

U.S. COAST GUARD
INCIDENT COMMAND POST
ALASKA AIRLINES BUILDING
1200 AIRPORT WAY
KODIAK, AK 99615

PHONE NUMBER (907) 487-4000

FAX NUMBER (907) 487-4918

DATE: 19 JUN 90

TOTAL # OF PAGES: 2

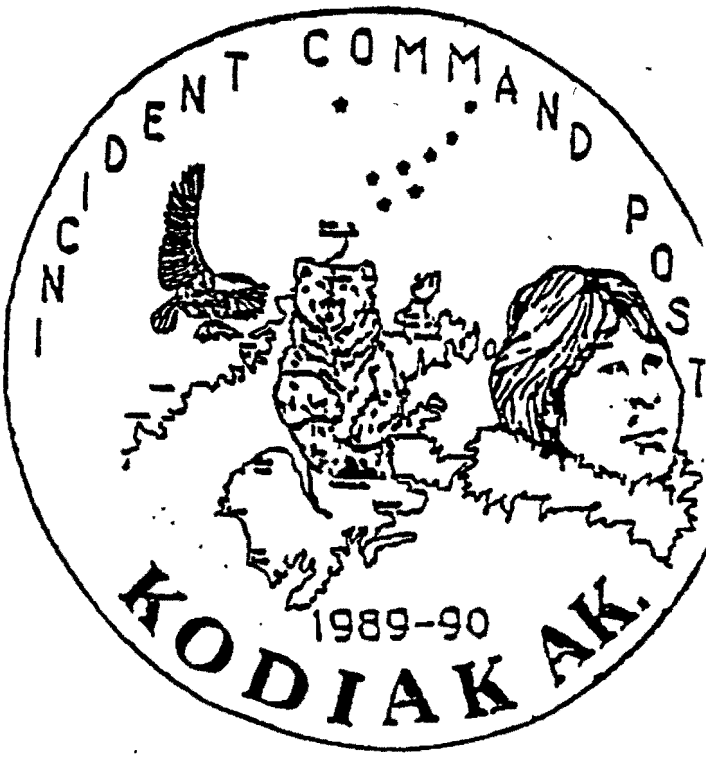
DELIVER TO: JEFF BANNGART

FAX NUMBER: 486-5044

FROM: IVAN VANCE

COMMENTS: CALL BACK TO CONFIRM THIS TRANSFER

It Appears at 11:33 Am Jun 17 Exxon Decided To clean Sturgeon Lagoon. JPB



JUN-19-90 TUE 11:13 USCG ICP KODIAK P.01

ACE 1852649+15

17-Jun 11:33 AM	SUN 17-Jun	MON 18-Jun	TUE 19-Jun	WED 20-Jun	THU 21-Jun	FRI 22-Jun	SAT 23-Jun
SQUAD 1 CORINTHIAN *BIO – SQUAD 1	LA-17A (L) LA-18A (L,S) EV-17A (S,L) EV-17A (S,L)	CREW CHANGE	ER-5A ER-5A (S) BIO FIELD EXERCISE	ER-7A (S) ER-6A ER-6A (S) *ER-4B *ER-5A	BA-1B (R) BA-1C (R) *ER-2B *ER-6A	BA-1E BA-2A (R,S) BA-8A *BA-1C (R) *BA-1E	DA-1A FL-4A *BA-2A (R)
SQUAD 2 COLUMBIA	KN-136A (L) KN-26A (L)	KN-136A (L) KN-26A (L)	KN-26A (L) KN-15A KN-24A (L)	KN-209B KN-209C KN-209D	KN-209C KN-209D	KN-211B KN-213D KN-213B (L)	KN-213B (L)
SQUAD 3 DON BOLLINGER BIO	AE-5A AE-5B	LN-5A LN-6A (R) LN-7A	EL-104C KN-129A (S) KN-129B KN-132A	KN-132C KN-200A KN-201A KN-205B	EL-58A EL-58B (R) EL-58C (R)	EL-56A EL-56C (R) EL-56D	EL-57A
SQUAD 4 ARCTIC SALVOR BIO	LA-21B (L,S) LA-20B (L) LA-38A ER-18A	SEWARD CREW CHANGE	LA-18A (L) LA-21B (L)	LA-18A (L,S) LA-17A (L) EV-3A (L) EV-5A (L)	EV-5B (L) EV-37A (L) EV-39A (L)	PD-5A WB-1A WB-2A WB-2B	WB-2C WB-2D WB-6A WB-7A
SQUAD 5 ADELE CANDIES	EV-37A (L) EV-2A (L)	EV-37A (L)	EV-52A	EV-53B	EV-53B EV-70H	FL-4A FL-4B	FL-4A FL-4B
SQUAD 6 BEULAH CANDIES	CH-2B (L) CH-8A (L) CH-10B (L) CH-14A (L,S)	VALDEZ CREW CHANGE	CH-12A (L) CH-15A (L,R)	CH-16A (L) CH-20A (L)	CU-13A (S,L) CU-14A (L) CU-14A (S,L) CU-14A (S,L)	CU-15A (L) CU-17A	EL-107A EL-107B
SQUAD 7 YUKON RIVER	CB-4B CB-4A	CB-4C CB-4D	CB-3A (S) CB-3C	PD-5A PD-8A (R)	PD-4A PD-10A	CB-3B	YG-2A (R,L)
SQUAD 8 ENSCO ATLAS	TB-4A (L)	SEWARD CREW CHANGE	WB-1A	TB-3A	TB-3A	TB-3A	TB-3A
SQUAD 9 SEA TRADER	K0619-SB006A K0634-SL007A	KODIAK CREW CHANGE	K0921-KU006A	K0919-HB003A	K0919-HB100A*	K0919-HB100A*	K0924-KU001A K0924-KU002A

*SCHEDULE DEVELOPED DAILY AND IS SUBJECT TO FREQUENT CHANGE; L-LAND MANAGER R- CULTURAL RESOURCE S-ANAD STREAM.

ACE 1852650 -/S/P

Sturgeon Lagoon SHORELINE EVALUATION

Need Ancill. Sht @ Exxon -

SEGMENT ST/ K06-34-SL-1S SUBDIVISION A (1 OF 1) DATE 4/4/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:
Salmon stream mouth no. ASC#256-40, #10010
Salmon stream outmigration (1A) - 3/1 to 5/15 and spawning (1B) - 7/10 to 8/31. No disturbance of stream bed or banks unless authorized by ADF&G. Contact ADF&G Habitat Division prior to treatment for permits. Sensitive estuary (8AA).

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

ARCHAEOLOGICAL CONSTRAINT: **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.)).** Exx

SHPO SIGNATURE: Robert Dan Date DATE: 6/20/90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 25 m: No Oil 1276 m
Subsurface Oil Observed: Yes ____ No X Maximum Depth ____

RECOMMENDATIONS:

____No Treatment Recommended	____Snare/Absorbent Booms
X Treatment Recommended	____Oil Snares (pom poms)
X Manual Pickup	____Absorbents (pads,rolls,etc)
____Bioremediation	____Spot Washing:____Wands
____Tarmat: ____Breakup	____ Beach Cleaner
____Removal	____Other (see comments)

COMMENTS: Manual pick up of mousse and oil spill related debris. Work before 7/10.

TAG COMMENTS:

TAG APPROVAL DATE: 6/16/90
ADEC Al Hoffer
EXXON Hunt Tew
NOAA Burl Wescott Burl Westcott
USCG G.A. Reiter G.A. Reiter

FOSC: [signature] DATE: 6-27-90

ACE 1852651

need via FAX 7-5-90

Sturgeon Lagoon SHORELINE EVALUATION

Via Alaska Coast @ Exxon -

SEGMENT ST/ K06-34-SL-15 SUBDIVISION A (1 OF 1) DATE 4/4/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:
Salmon stream mouth no. ASC#256-40, #10010
Salmon stream outmigration (1A) - 3/1 to 5/15 and spawning (1B) - 7/10 to 8/31. No disturbance of stream bed or banks unless authorized by ADF&G. Contact ADF&G Habitat Division prior to treatment for permits. Sensitive estuary (8AA).

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

ARCHAEOLOGICAL CONSTRAINT: **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.)).** Rm

SHPO SIGNATURE: Robert Shaw Dave DATE: 6/20/90

OILING CATEGORIZATION: OK

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 25 m: No Oil 1276 m
Subsurface Oil Observed: Yes____ No X Maximum Depth_____

RECOMMENDATIONS:

_____No Treatment Recommended	_____Snare/Absorbent Booms
__X__Treatment Recommended	_____Oil Snares (pom poms)
__X__Manual Pickup	_____Absorbents (pads,rolls,etc)
_____Bioremediation	_____Spot Washing:_____Wands
_____Tarmat: _____Breakup	_____ Beach Cleaner
_____Removal	_____Other (see comments)

COMMENTS: Manual pick up of mousse and oil spill related debris. Work before 7/10.

TAG COMMENTS:

TAG APPROVAL DATE: 6/16/90
ADEC M. Kuwada
EXXON Hunt Tom
NOAA Curt Wessett Bob Richmond
USCG C.A. Heltel C.R. Bacon

FOSC: [signature] DATE: 6-27-90

need via FAX 7-5-90

ACE 1852652 4/5

FIELD SHORELINE COMMENT SHEET

SEGMENT ST/ K6-34-SL-15 SUBDIVISION: K6-34-SL-15A DATE 7/4/90

USCG
NAME D.D. Haven Jr. LCDR, USCGR SIGNATURE

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED

COMMENTS

This area is very lightly impacted according to OG. I was inspecting a separate area at the time. Normally, I would not recommend clean up for this degree of impact, but there is leftover clean up debri in nearby segments and while there are workers in the area, they may as well pick-up any removable oil/mousse.

ADEC
NAME Francine J. Benoit SIGNATURE

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED

COMMENTS

Treatment for other segments in Sturgeon Lagoon is recommended. It'd be a good idea for the clean-up crew to attend to this area to manually collect any retrievable oil.

SAT Field maps should accompany clean-up crews.

LAND MANAGER
NAME JOHN P. HARDISTER SIGNATURE USFWS

~~☐ NO TREATMENT RECOMMENDED~~ ~~☒ TREATMENT SUGGESTED~~

COMMENTS

Impact by oil is light. Incidental cleanup by crews in adjacent areas is warranted.

John Merrick John Merrick Koniag, Inc.

Concur with above

REVISION 1 05/21/90

ACE 1852653

SHORELINE OILING SUMMARY

REVISION NO. 03/22/90

OG Acton USCG Haven SEGMENT ST/ K 6-34-SL-15
BIO Davis LAND REP USFWS Hardister SUBDIVISION K6-34-24-15A
EXXON Avery ADEC Bennis TIME 2:30 to 3:15
TEAM NO.: 20 TIDE LEVEL: +2.0 to +4.5 DATE 4/4/90
EST. SUBDIVISION LENGTH: 1320 m ☐ Sun ☐ Clouds ☐ Fog ☐ Rain ☒ Snow
UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock
SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: S to N
SURFACE SEDIMENTS: R 0 % B 0 % C 15 % P 25 % G 15 % S 20 % M 25 % 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 30 m NO 1300 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR					IMPACTED ZONES			
	ro	ra	rp	rs						su	ui	mi	li
ASPHALT PAVEMENT													
POOLED													
COVER													
COAT				✓		✓						✓	
STAIN													
MOUSSE			✓					✓				✓	
PATTIES													
TARBALLS													
FILM													
NO OIL										✓	✓		✓

PAVEMENT: H F S 0 sq. m by 0 cm
PATTIES / TARBALLS 0 BAGS
NEAR SHORE SHEEN? (NO) SR 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. 20-3
Frames 7-10

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (cm-cm)	BELOW		OIL / FILM COLOR					PIT ZONE				ANA	SUBSURFACE SEDIMENTS
		op	or	ol	gp	no		ug	uo						su	ui	mi	li		
1	40					✓	-									✓				mGP
2	30					✓	-										✓			mGP
3	30					✓	-									✓				mGP
4	30					✓	-										✓			mGP
5	30					✓	-									✓				mG
							-													

COMMENTS 3m x 30m band of mGP and GT/S (<5% coverage) on and around surface cobble/pebbles. No subsurface or other oil was observed. Walked entire segment

↓ Band in in upper MIZ.

ACE 1852654

REVIEWED BAT DATE 7 Aug 90

OC Aston

SEGMENT ST/ KC-34-2C-15

SUBDIVISION KC-34-2C-15

DATE ___/___/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

Coarse Tarball Distribution

CT/D

Broken Distribution

CT/P

Patchy Distribution

CT/S

Splattered Distribution

Oiled Vegetation

Photo location, direction, and number

SKETCH MAP

Approx Scale
1cm ≈ 100m

N↑

Sheikof Strait

Segment Boundary

Sturgeon Bay

3m x 30m area MS/P and CT/S

MANUAL REMOVAL OF MOUSSE & DEBRIS

A

A'

20-5 7,9,10

20-5 #8

Segment Boundary

A-A'≈

Driftwood Debris

mud/grass

SSL

HWL

3m Band of MS/P and CT/S in upper METZ

angular pebbles and cobbles

MHW

LWL

A'

Oil Character Length (m) AP ○ PO ○ CV ○ CT 30 ST ○ MS 30 PT ○ TB ○ FL ○ NO 1300

REVISION HISTORY

JUL 05 '90 14:13 FISH & GAME ANCH-HABITA

P.28/47

ACE 1852655

SHORELINE ECOLOGICAL SUMMARY

REVISION: 10/22/86

Segment ST / KOG-34 Subdivision SL-15A Date (mo / day / yr) 4-4-90

Time (24 hr) 14:30 Biologist M. Davis

(A) Substrate type and % of segments:
(1) Bedrock ____ (2) Boulder ____ (3) Cobble 25 (4) Pebble 50 (5) Sand 10 (6) Silt 25

(B) Overall % cover of biota (% of segment): Dense ____ Moderate 50% Low 50% (25%)

(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-20-3
Frames 7 – 12

BARNACLES

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

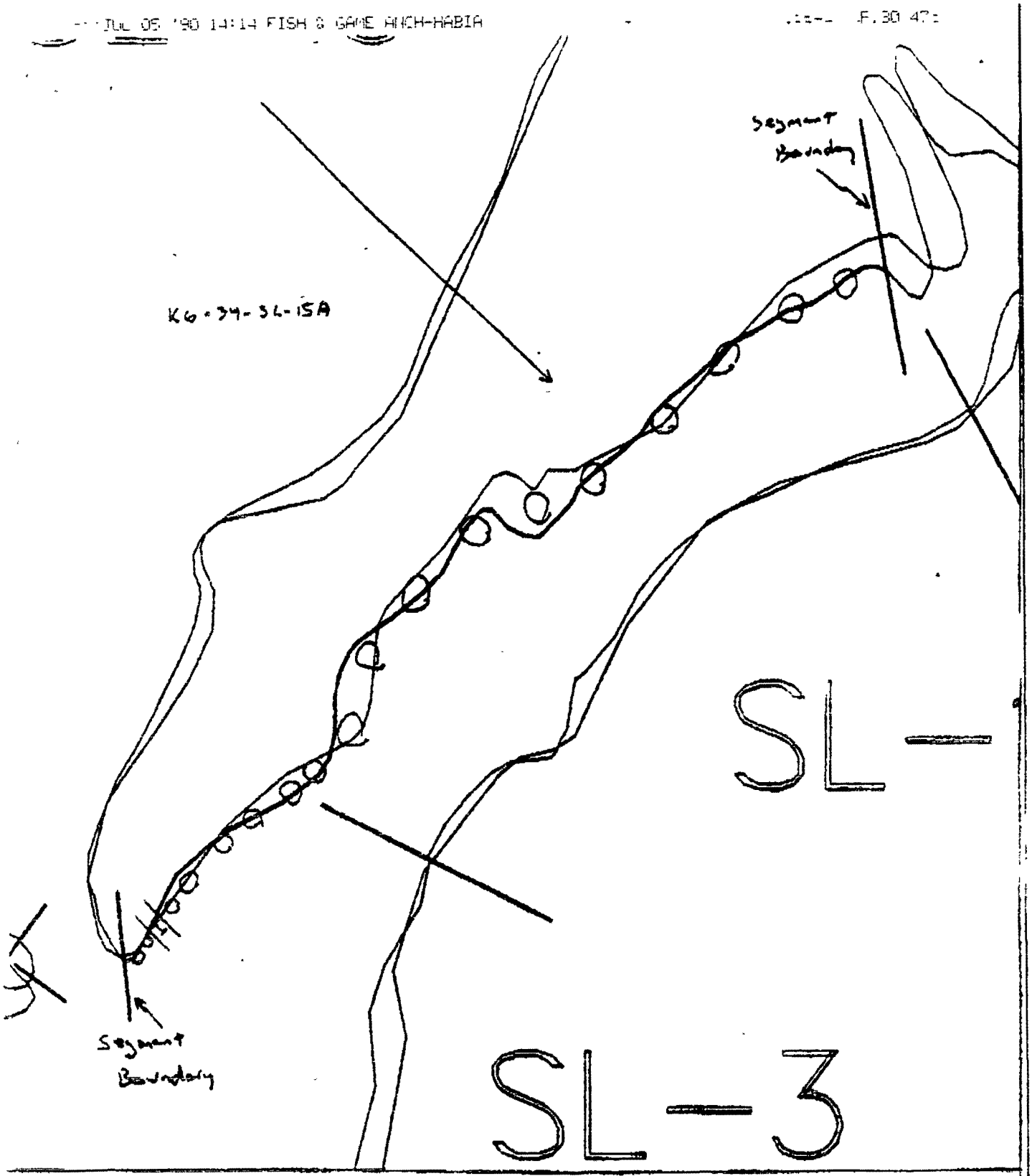
Dense			Moderate			Sparse			Rare			
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L	
2	2	2	2	2	2	2	X	2	2	2	2	
3	3	3	3	3	3	X	X	3	X	X	X	NOT PRESENT
4	4	4	4	4	4	X	X	4	X	X	X	1, 5, 6
5	5	5	5	5	5	5	5	5	5	5	5	
6	6	6	6	6	6	6	6	6	6	6	6	

FUCUS

Dense			Moderate			Sparse			Rare			
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L	
2	2	2	2	2	2	2	X	2	2	2	2	
3	3	3	3	3	3	3	X	X	3	X	X	NOT PRESENT
4	4	4	4	4	4	4	X	X	4	X	X	1, 2, 5, 6
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: On the center of the channel zostera beds were visible. Mallards (3-6), Pintails (20-30) and glaucous winged gulls were feeding in the area. At the western end of section SL-15 the gravel population is sparse but continuous. As the number of cobbles and pebbles decreases to the east so does the number of fucus scales. Fucus appears sporadically in moderate to sparse patches. Enteromorpha were sparse. Eagles both adults and juveniles were observed in the area.

Ecological Considerations (A, 1B, 3AB) The estuary and river areas are food sources for many species of birds, mammals and fish. It is a spawning area for Pink, Chum, Coho, Steelhead and Rainbow.



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

SL-15

ADEC Segment Length: 1331m

0 100 200 300
METERS

KG-34-SL-15A
Map Key: GOA-188
Name: Acker
Date: 4-4-90
Date Entered:

ACE 1852657-15

ADDENDUM: SUBDIVISION CONSTRAINTS

SEGMENT K06-34-SL-02 SUBDIVISION A (1 of 1)

WORK WINDOW	
Manual Pickup	OPEN

ARCHAEOLOGICAL INSPECTION/CONSULTATION REQUIRED.

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

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

1A,1B Salmon Stream

ADF&G catalogued anadromous stream (256-40-10010) is in Subdivision A. No constraint to manual pickup.

OTHER ECOLOGICAL CONSIDERATIONS

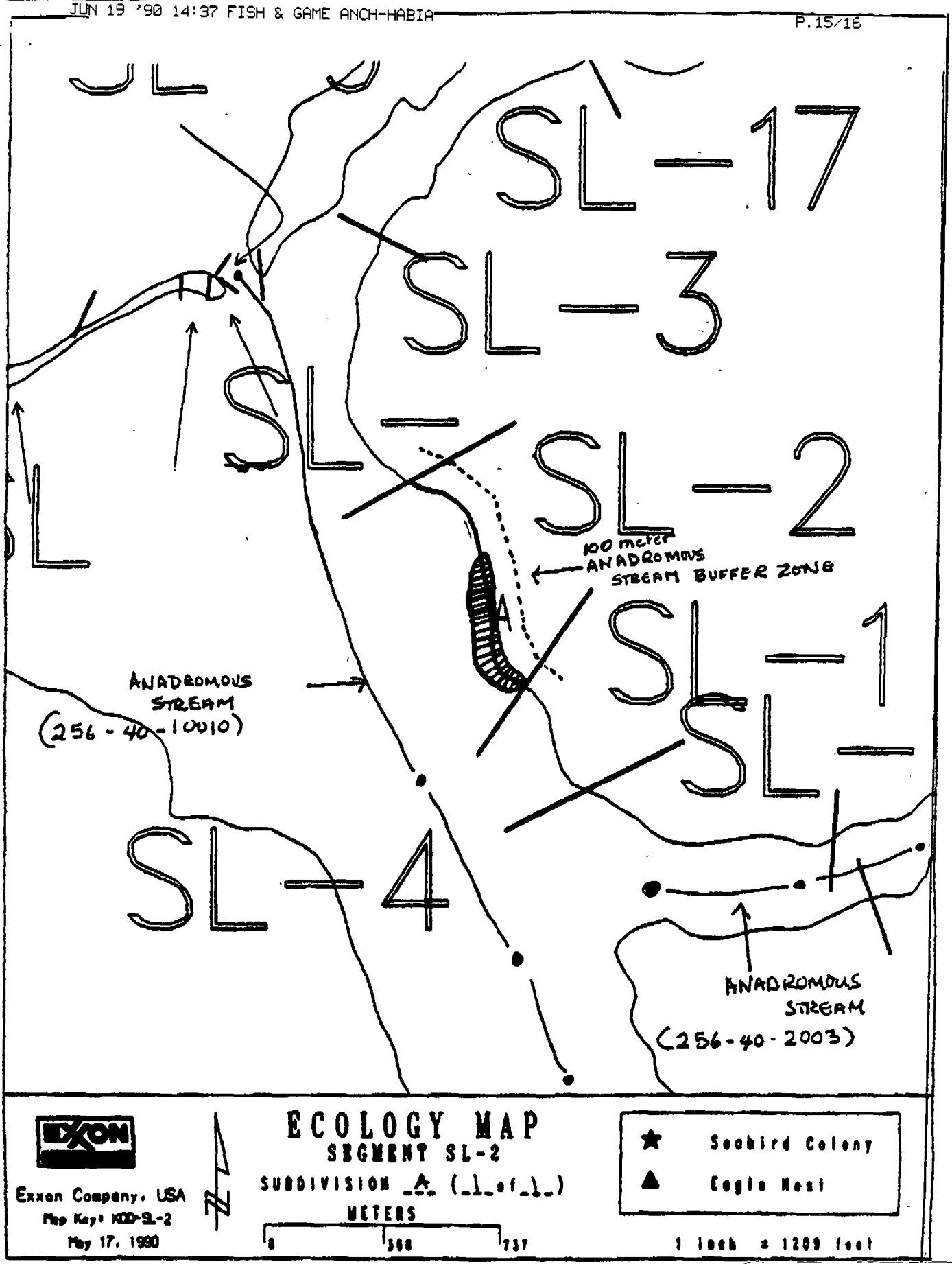
Sensitive estuary. No disturbance to stream bed or banks. Avoid any unnecessary disturbance or damage to unoiled biota and substrate.

TAG APPROVAL DATE_____
ADEC_____
EXXON_____
NOAA_____
USCG_____

FOSC [signature] DATE 6-10-90

Prepared By: [signature] Date 06/09/90

ACE 1852669+|S



EXXON

Exxon Company, USA
Map Key: KOD-SL-2
May 17, 1990

ECOLOGY MAP
SEGMENT SL-2
SUBDIVISION A (1 of 1)

METERS
0 368 737

★ Seabird Colony
▲ Eagle Nest

1 inch = 1209 feet

ACE 1852670

SHORELINE EVALUATION

SEGMENT ST/ K06-34-SL-02 SUBDIVISION A (1 OF 1) DATE 4/7/90

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:
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: Sharon E. Holman DATE: April 14, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 428 m: No Oil 348 m
Subsurface Oil Observed: Yes ___ No X Maximum Depth ___

RECOMMENDATIONS:

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

COMMENTS: Manual pick up of mousse and oiled debris. Work to be conducted before 7/10. SEE CONSTRAINT ADDENDUM DATED 06/10/90 RMC.

TAG COMMENTS:

TAG APPROVAL DATE: 4/14/90
ADEC R.L. Kitchen
EXXON Andy Teal
NOAA Ben Woodruff
USCG G.A. Reiter G.A. Reiter FOSC: [signature] DATE: 5-1-90

ACE 1852671-15

ADDENDUM: SUBDIVISION CONSTRAINTS

SEGMENT K06-34-SL- 03 SUBDIVISION A (1 of 1)

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 (256-40-10010) is in Subdivision A. No constraint to manual pickup.

OTHER ECOLOGICAL CONSIDERATIONS

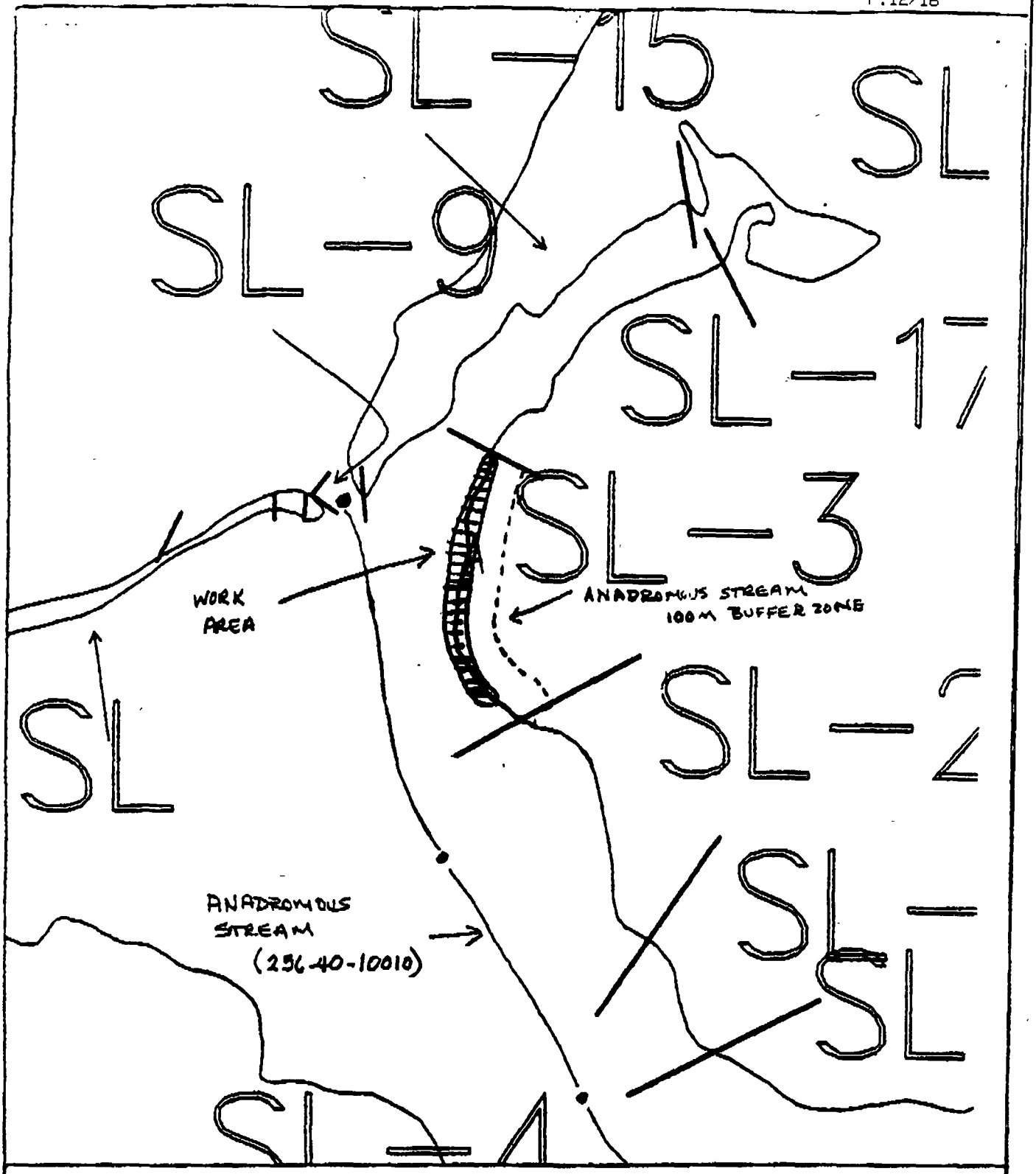
Sensitive estuary. No disturbance to stream bed or banks. Avoid any unnecessary disturbance or damage to uncoiled biota and substrate.

TAG APPROVAL DATE_____
ADEC_____
EXXON_____
NOAA_____
USCG_____

FOSC [signature] DATE 6-10-90

Prepared By: Rex D. Caulkins Date 6/10/90

ACE 1852672 +/S



EXXON

Exxon Company, USA
Map Key: KOD-SL-3
May 17, 1990

ECOLOGY MAP
SEGMENT SL-3
SUBDIVISION A (1 of 1)

METERS
0 333 765

★ Seabird Colony
▲ Eagle Nest

1 inch = 1157 feet

ACE 1852673

SHORELINE EVALUATION

SEGMENT ST/K06-34-SL-03 SUBDIVISION A (1 OF 1) DATE 4/7/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:
Salmon stream mouth no. ASC #256-40, #10010
1A Salmon stream outmigration (4/15 to 7/31)
1B Salmon spawning (7/15 to 9/10; PEAK 8/15)
8AA Sensitive Estuary
No disturbance of stream beds or banks unless authorized by ADF&G. Contact ADF&G Habitat Division prior to treatment for permits.

SUBDIVISION ECOLOGICAL CONSTRAINTS:
Avoid disturbance/damage to unoiled substrate and biota. 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: Pamela J. Hanson DATE: 4/17/90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 21 m: No Oil 839 m
Subsurface Oil Observed: Yes ___ No X Maximum Depth ___

RECOMMENDATIONS:

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

COMMENTS: Recommend manual pick up of mousse and oiled trash. Work should be conducted before 7/10, per above constraints.
SEE CONSTRAINT ADDENDUM DATED 04/10/90 REXC.

TAG COMMENTS:

TAG APPROVAL DATE: 4/16/90
ADEC [signature]
EXXON ANDY TEAL [signature] FOSC: ___ DATE: ___
NOAA Burl Wescott [signature]
USCG G.A. BAITER G.A. Baiter

ACE 1852674 -/S

ADDENDUM: SUBDIVISION CONSTRAINTS

SEGMENT KO6-34-SL-07 SUBDIVISION A (1 of 1)

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 (256-40-10010) is in Subdivision A. No constraint to manual pickup.

OTHER ECOLOGICAL CONSIDERATIONS

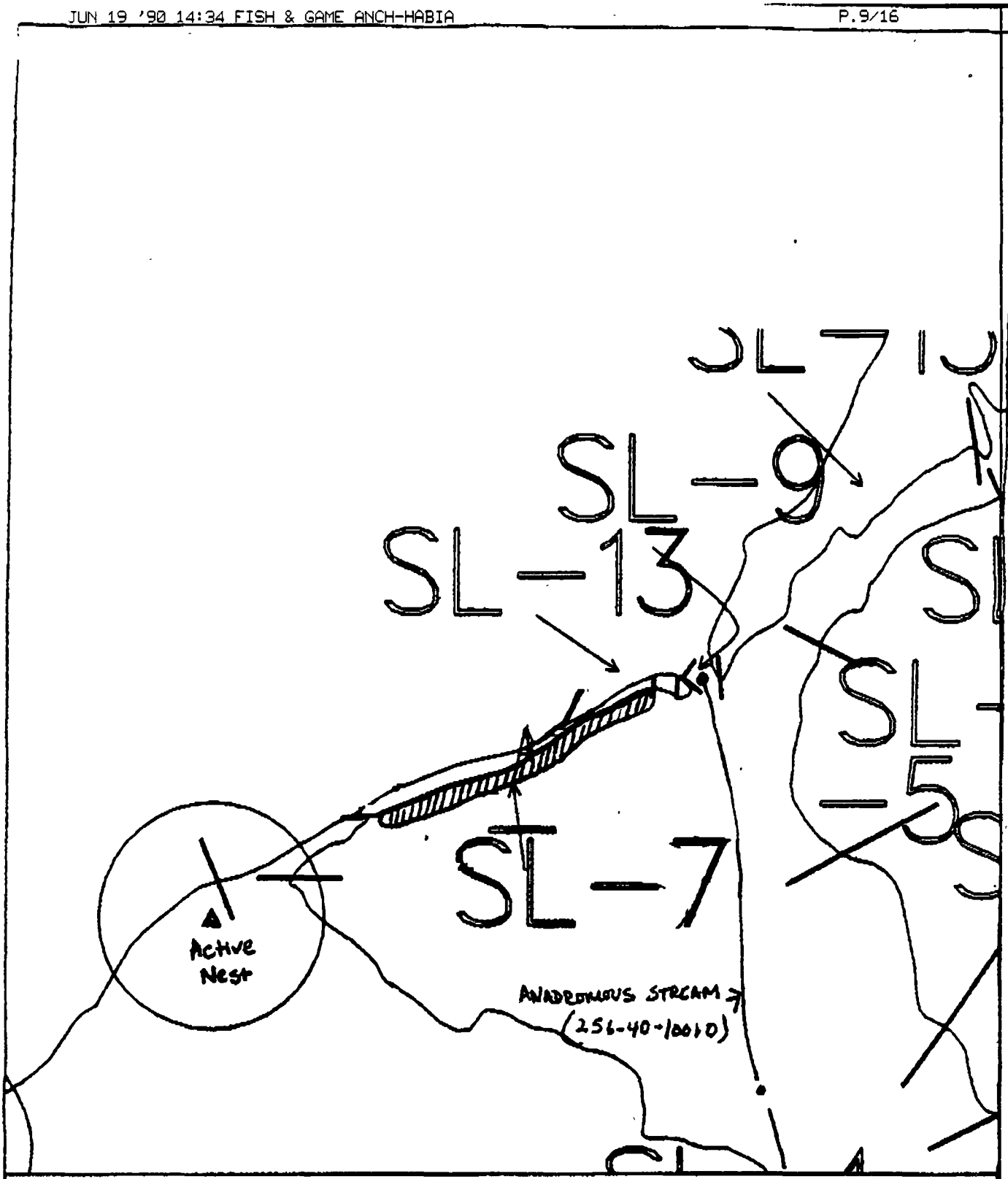
No disturbance to stream bed or banks. Avoid any unnecessary disturbance or damage to unoiled biota and substrate. Sensitive Estuary

TAG APPROVAL DATE_____
ADEC_____
EXXON_____
NOAA_____
USCG_____

FOSC [signature] DATE 6-10-90

Prepared By: Dan D. Coulter Date 06/19/90

ACE 1852675 +/S



EXXON

Exxon Company, USA
Map Key: KOD-SL-7
May 17, 1990

ECOLOGY MAP
SEGMENT SL-7
SUBDIVISION A (1 of 1)

METERS
0 400 820

★ Seabird Colony
▲ Eagle Nest

1 inch = 1500 feet

ACE 1852676

SHORELINE EVALUATION

SEGMENT ST/ K06-34-SL-07 SUBDIVISION A (1 OF 1) DATE 4/7/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:
Salmon stream mouth no. 256-40-10010.
Salmon stream outmigration (1A) - 3/1 to 3/15 and spawning (1B) - 7/10 to 8/31. No disturbance of stream bed or banks unless authorized by ADF&G. Contact ADF&G Habitat Division prior to treatment for permits.
Sensitive estuary (8AA).

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). required prior

SHPO SIGNATURE: [signature] DATE: 4/17/90

OILING CATEGORIZATION:
Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 112 m: No Oil 0 m
Subsurface Oil Observed: Yes ____ No X Maximum Depth ____

RECOMMENDATIONS:

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

COMMENTS: SEE CONSTRAINT ADDENDUM DATED 04/10/90. REX C.

TAG COMMENTS:
DUE TO THE ENVIRONMENTAL SENSITIVITIES AND RESOURCE USE MANUAL PICK UP OF MOUSSE PATTIES REQUIRED.

TAG APPROVAL DATE: 4/14/90.
ADEC [signature]
EXXON [signature] FOSC: [signature] DATE: 5-1-90
NOAA [signature]
USCG [signature]

ADDENDUM: SUBDIVISION CONSTRAINTS

SEGMENT K06-34-SL-08 SUBDIVISION A (1 of 1)

WORK WINDOW	
Manual Pickup	**OPEN**
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 stream (256-40-10010) is more than 100m from work site. No constraint to manual pickup and bioremediation.

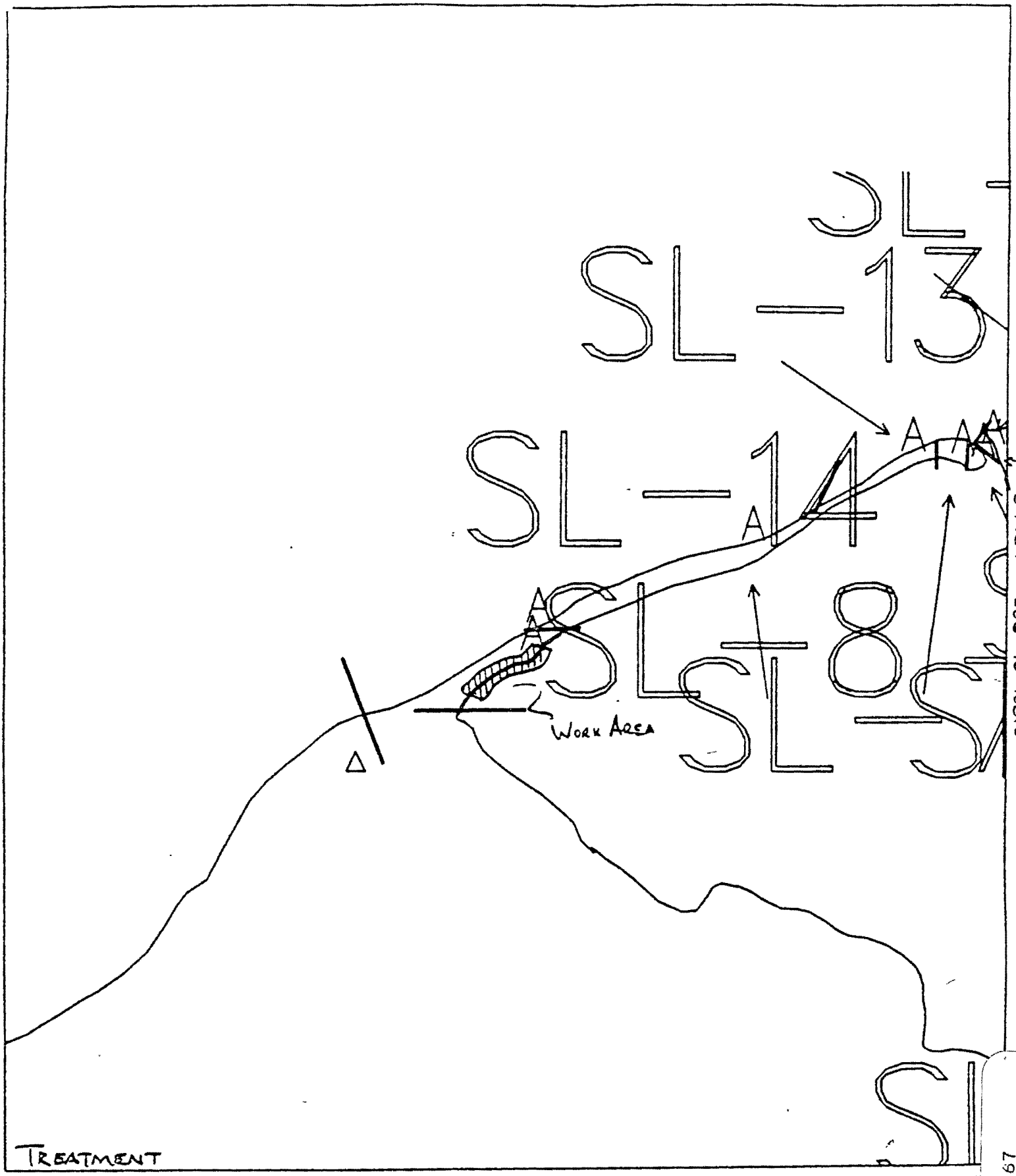
OTHER ECOLOGICAL CONSIDERATIONS

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

FOSC D Jarvis Jr Date 6-16-90

Prepared by J Phillips Date 6/15/90

ACE 1852666+HS



EXXON

ECOLOGY MAP

SEGMENT K6-34 SL-8

SUBDIVISION A (1 of 1)

★ Seabird Colony

▲ Active Eagle Nest

△ Inactive Eagle Nest

ACE 1852667

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 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: April 14, 1990 CEH 4/25/90

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)

4/25/90.

COMMENTS: Bioremediate subsurface oil.

SOS CONSTRAINT ADDENDUM dated 6/15/90.

TAG COMMENTS:

ACE 185268-LS

TAG APPROVAL DATE: 4/14/90
ADEC John Bauer John Bauer
EXXON Andy Tarr
NOAA Burt Wershaw, Bob Loeffler FOSC: DATE: 4-22-90

(Tarr: Include limited pickup of mousse

ADDENDUM: SUBDIVISION CONSTRAINTS

SEGMENT K06-34-SL-01 SUBDIVISION A (1 of 1)

WORK WINDOW	
Manual Pickup	WORK BEFORE 7/10

ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

1A,1B Salmon Stream — ADF&G catalogued anadromous streams (256-40-10010 and 256-40-2003) are more than 100m from work site. No constraint to manual pickup.

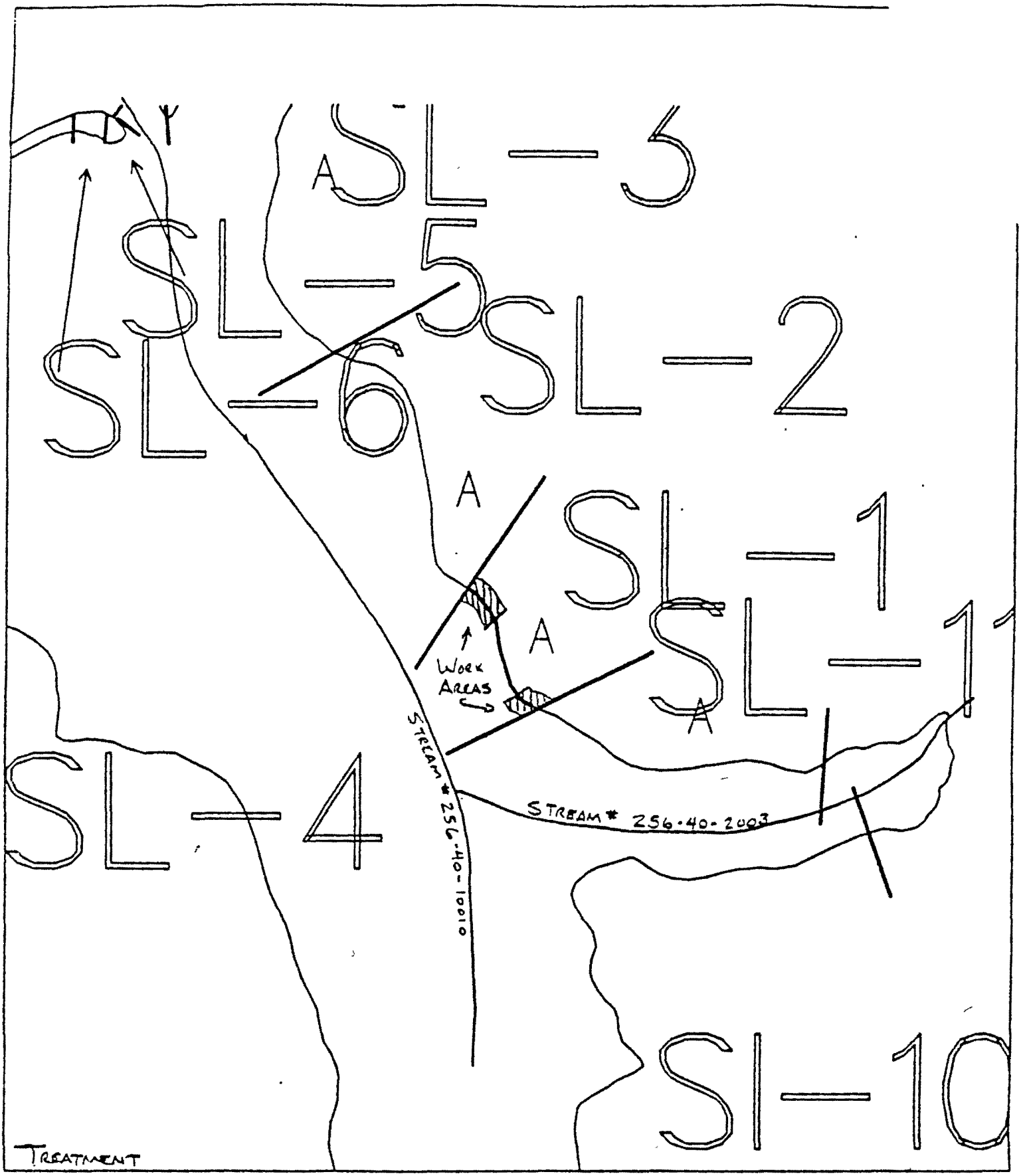
OTHER ECOLOGICAL CONSIDERATIONS

No disturbance to stream bed or banks. Avoid any unnecessary disturbance or damage to unoiled biota and substrate. Sensitive estuary.

FOSC _____ Date 6-16-90

Prepared by _____ Date 6/16/90

ACE 1852660 +15



EXXON

Exxon Company, USA
Map Key: KOO-SL-1

ECOLOGY MAP
SEGMENT K6-34 SL-1

SUBDIVISION ___ (___of___)

METERS

★ Seabird Colony
▲ Active Eagle Nest
△ Inactive Eagle Nest

ACE.1852661

SHORELINE EVALUATION

SEGMENT ST/ K06-34-SL-01 SUBDIVISION A (1 OF 1) DATE 4/9/90

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 E. Holman DATE: April 14, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 97 m: No Oil 272 m
Subsurface Oil Observed: Yes____ No X Maximum Depth_____

RECOMMENDATIONS:

_____No Treatment Recommended	_____Snare/Absorbent Booms
X Treatment Recommended	_____Oil Snares (pom poms)
X Manual Pickup	_____Absorbents (pads,rolls,etc)
_____Bioremediation	_____Spot Washing:_____Wands
_____Tarmat: _____Breakup	_____ Beach Cleaner
_____Removal	_____Other (see comments)

COMMENTS: Manual pick up of mousse and patties. Work restricted to before 7/10.
SEE CONSTRAINTS ADDENDUM dated 6/15/90 PP

TAG COMMENTS:

TAG APPROVAL DATE: 4/14/90.
ADEC JOHN BAUER
EXXON ANDY TER
NOAA Bart Wescott
USCG G.A. REITER

FOSC: _____ DATE: 5-1-90

ACE 1852662-IS

Jeff -
For your files
Sent by
7/17/90

EXXON COMPANY, U.S.A.
ALASKA OPERATIONS
POST OFFICE BOX 240409 · ANCHORAGE, ALASKA 99524-0409

July 17, 1990

Mr. Ken Middleton
Alaska Department
of Fish And Game
333 Raspberry Road
Anchorage, Alaska 99518-1599

Subject: Kodiak Field Inspection Report of Non-notification June 17, 1990

Dear Mr. Middleton:

We have investigated the non-notification problem cited in your letter dated June 28, 1990 concerning work done on segment K9-34-SL7, Sturgeon Lagoon. As indicated in your field report, the problem resulted from a last minute change in work activity that was not communicated to the Alaska Department of Fish and Game (ADFG). Our procedures have been to provide ADFG the DAILY WORK PLAN giving a 7-day outlook of our work schedule and to notify ADFG of changes as they occur. In this case, however, the procedures apparently broke down.

We have implemented the following notification protocols if last minute work locations change in an attempt to ensure adequate notification.

- Contact ADFG Kodiak office at 486-5033, or
- Notify ADEC in the Kodiak Command Center, or
- Exxon field supervisor notifies an ADFG field monitor if his/her location is known.

It should be noted that if there are no "weekend duty" ADFG personnel, notification of work location changes during weekends may not be received by ADFG in a timely manner. We feel implementation of these procedures represents good faith efforts to maintain communications and meet ADFG's notification requirements.

In the event ADFG has any questions regarding our procedures or work areas please call me at 564-3631 or Glenn Raz at 564-3620. If you are unable to reach us, please contact Exxon Operations' Mark Meyer at 564-3288 or Scott Nauman/ Bill Stillings at 564-3626. If Operations personnel are not available at these numbers please call our Joint Transportation Operations Center (JTOC) at 266-6582. JTOC is capable of reaching Operations personnel on a 24 hour basis.

Any suggestions you have to improve the process will be appreciated. As always, Glenn and I are available if you have any other questions.

Sincerely,

R. G. Dragnich

Attachments
cc: Mr. John Morrison, ADFG

ACE 1852663+15

STEVE COWPER, GOVERNOR

DEPARTMENT OF FISH AND GAME

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

June 28, 1990

OK JUL 2 1990

Mr. R.G. Dragnich
Exxon Company, U.S.A.
Alaska Operations
P.O. Box 240409
Anchorage, Alaska
99524-0409

Dear Mr. Dragnich:

Enclosed is a Field Inspection Report from our Kodiak field office citing a particular problem of non-notification that occurred on June 17, 1990.

The area involved is on the west coast of Kodiak Island in segment K09-34-SL-7 (Sturgeon Lagoon). The work order specified that our agency be notified before cleanup operations commenced. The Exxon representative was Tommy Tomlin on the vessel Sea Trader.

We had a number of such problems relating to sudden schedule changes and non-notification, to any agency, early on. Hopefully, these problems have been resolved by now. I am going to Kodiak next week, and will be checking into activities relating to our agency and anadromous streams in particular. I may be contacted at 486-5033 while there.

This report is being sent for your information. Please sign and return the original copy to me at this address.

Incidentially, I wish to report that the helicopter crew under Fred Byar's supervision is doing an excellent job according to my information.

Sincerely,

Kenneth R. Middleton
Field Office Coordinator
Kodiak Field Office

Enclosure

cc: Mark Kuwada

ACE 1852664

State of Alaska
Department of Fish and Game
Habitat Division

OK

Field Inspection Report

Date 6/18/90 Time 5:30pm

Location: (Logging unit/Road/Waterbody) KOK-34-SL07 Sturgeon Lagoon/Stream. Kodiak Island

Operator/Contractor: Exxon

Individuals present at time of inspection:

Name	Representing
Fran Bennis	DEC
Tommy Tomlin	Exxon
Dan Hauer	USCG

Activity/Situation Observed: On the evening of Sat. June 16, 1990 the USFWS in Kodiak was notified by Exxon that K6-19 in Spiridon Bay was to be cleaned starting at 0700 hours Sunday June 17, 1990. Ott Florschutz was the USFWS rep. on site Sunday morning. Today he informed me that at approx 0900 hours Sunday morning Exxon made the decision to proceed to Sturgeon Lagoon to clean segment SL-7. The work order specifically states Contact ADF&G Habitat Division prior to treatment for permits. The work was completed without any Habitat Division OK at this time I still have not been contacted by Exxon. I first discovered this today when I called DEC on an unrelated topic.

Pertinent Statutes/Regulations: AS 16.05.870

Recommended/Required Action (Specify): Steps need to be taken to assure compliance w/ AS 16.05.870 and the work orders.

By (date) _____ (if applicable)

Please note: This is not a final inspection report. It is intended to provide the operator/contractor with a notice of problems or concerns which require immediate attention. If necessary, a final inspection report will be issued at a subsequent date.

Jeffrey Bambert FBI
Fish and Game Representative/Title

Company Representative/Title

orm 11-88 (1-82)

ACE 1852665-15

FROM: FEDERAL ON SCENE COORDINATOR, EXXON VALDEZ

TO: K/K

SUBJ: FINAL COMMENT ON EXXON WORK ORDERS

1. THE FOLLOWING SEGMENTS ARE FORWARDED FOR YOUR YES/NO COMMENT ON THE EXXON WORK ORDER. THESE SEGMENT WORK ORDERS WERE APPROVED BY THE TECHNICAL ADVISORY GROUP ON 4-16-90 FOR THE FOSC FINAL DECISION AND SIGNATURE.

K06-34-SL-15A Y/N	_____ Y/N	_____ Y/N
_____ Y/N	_____ Y/N	_____ Y/N
_____ Y/N	_____ Y/N	_____ Y/N
_____ Y/N	_____ Y/N	_____ Y/N
_____ Y/N	_____ Y/N	_____ Y/N
_____ Y/N	_____ Y/N	_____ Y/N
_____ Y/N	_____ Y/N	_____ Y/N
_____ Y/N	_____ Y/N	_____ Y/N

2. PLEASE PROVIDE YOUR YES/NO COMMENTS ON EACH SEGMENT YOUR AGENCY IS RESPONSIBLE FOR WITHIN 24 HOURS OF RECEIPT.

D D Rome

D. D. ROME
OPERATIONS OFFICER
BY DIRECTION

RECEIVED _____ DATE _____

RETURNED _____ DATE _____

ACE 1852782+15

SEGMENT ST/ K06-34-SL-15 SUBDIVISION A (1 OF 1) DATE 4/4/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:
Salmon stream mouth no. ASC#256-40, #10010
Salmon stream outmigration (1A) - 3/1 to 5/15 and spawning (1B) - 7/10 to 8/31. No disturbance of stream bed or banks unless authorized by ADF&G. Contact ADF&G Habitat Division prior to treatment for permits. Sensitive estuary (8AA).

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

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 25 m: No Oil 1276 m
Subsurface Oil Observed: Yes____ No X Maximum Depth_____

RECOMMENDATIONS:

_____No Treatment Recommended	_____Snare/Absorbent Booms
X Treatment Recommended	_____Oil Snares (pom poms)
X Manual Pickup	_____Absorbents (pads,rolls,etc)
_____Bioremediation	_____Spot Washing:_____Wands
_____Tarmat: _____Breakup	_____ Beach Cleaner
_____Removal	_____Other (see comments)

COMMENTS: Manual pick up of mousse and oil spill related debris. Work before 7/10.

TAG COMMENTS:

TAG APPROVAL DATE: 4/16/90.
ADEC
EXXON FOSC:_____ DATE:_____
NOAA
USCG

ACE 1852783-IS

KIK

FROM: FEDERAL ON SCENE COORDINATOR, EXXON VALDEZ

TO: KIK (KODIAK)

SUBJ: FINAL COMMENT ON EXXON WORK ORDERS

1. THE FOLLOWING SEGMENTS ARE FORWARDED FOR YOUR YES/NO COMMENT ON THE EXXON WORK ORDER. THESE SEGMENT WORK ORDERS WERE APPROVED BY THE TECHNICAL ADVISORY GROUP ON 4-14-90 FOR THE FOSC FINAL DECISION AND SIGNATURE.

K06-34-SL-17A Y/N	_____ Y/N	_____ Y/N
_____ Y/N	_____ Y/N	_____ Y/N
_____ Y/N	_____ Y/N	_____ Y/N
_____ Y/N	_____ Y/N	_____ Y/N
_____ Y/N	_____ Y/N	_____ Y/N
_____ Y/N	_____ Y/N	_____ Y/N
_____ Y/N	_____ Y/N	_____ Y/N
_____ Y/N	_____ Y/N	_____ Y/N

2. PLEASE PROVIDE YOUR YES/NO COMMENTS ON EACH SEGMENT YOUR AGENCY IS RESPONSIBLE FOR WITHIN 24 HOURS OF RECEIPT.

D D Rome

D. D. ROME
OPERATIONS OFFICER
BY DIRECTION

RECEIVED _____ DATE _____

RETURNED _____ DATE _____

ACE 1852784+18

SHORELINE EVALUATION

SEGMENT ST/ K06-34-SL-17 SUBDIVISION A (1 OF 1) DATE 4/7/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:
Salmon stream mouth no. 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 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: April 14, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 0 m: No Oil 880 m
Subsurface Oil Observed: Yes____ No X Maximum Depth_____

RECOMMENDATIONS:

_____No Treatment Recommended	_____Snare/Absorbent Booms
X Treatment Recommended	_____Oil Snares (pom poms)
X Manual Pickup	_____Absorbents (pads,rolls,etc)
_____Bioremediation	_____Spot Washing:_____Wands
_____Tarmat: _____Breakup	_____ Beach Cleaner
_____Removal	_____Other (see comments)

COMMENTS: Manual pick up of oil snare boom between 3/15 and 7/10.

TAG COMMENTS:

TAG APPROVAL DATE: 4/14/90
ADEC Art Weaver Art Weaver
EXXON ANDY TOTH Andy Toth FOSC:_____ DATE:_____
NOAA Burl Wright Burl Wright
USCG G.A. REITER G.A. Reiter

ACE 1852785

REGION: KODIAK

SEGMENT: K06-34-SL-17

SUBDIVISIONS: A (1 OF 1)

ACE 1852786

SHORELINE EVALUATION

SEGMENT ST/ K06-34-SL-17 SUBDIVISION A (1 OF 1) DATE 4/7/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:
Salmon stream mouth no. 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 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 0 m: No Oil 880 m
Subsurface Oil Observed: Yes____ No X Maximum Depth_____

RECOMMENDATIONS:

_____No Treatment Recommended	_____Snare/Absorbent Booms
X Treatment Recommended	_____Oil Snares (pom poms)
X Manual Pickup	_____Absorbents (pads,rolls,etc)
_____Bioremediation	_____Spot Washing:_____Wands
_____Tarmat: _____Breakup	_____ Beach Cleaner
_____Removal	_____Other (see comments)

COMMENTS: Manual pick up of oil snare boom between 3/15 and 7/10.

TAG COMMENTS:

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

ACE 1852787

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / K6-34-SL-17 SUBDIVISION: K6-34-SL-17-A DATE 4/4/90

USCG
NAME D.D. Haven Jr, GM3, USCG SIGNATURE D D Haven Jr

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED
COMMENTS

No oil sighted.

ADEC
NAME Francine J. Bennis SIGNATURE Francine J Bennis

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED
COMMENTS

No oil observed.
There is, however, a portion of oil-snare boom lying at the top of the UITE. It should be retrieved.
(See map for location)

LAND MANAGER
NAME JOHN P. HARDISTER SIGNATURE John P Hardister USFWS

~~☐ NO TREATMENT RECOMMENDED~~ ~~☐ TREATMENT SUGGESTED~~
COMMENTS

No oil observed - concur that oil-snare boom should be removed.

John Merrick John merrick Konig, Inc
Concur with ADEC recommendation

REVISION NO. 03/21/90

ACE 1852788

SHORELINE OILING SUMMARY

REVISION NO. 03/22/90

OG Acton USCG Hayes SEGMENT ST/ Kb-34-36-17
BIO Davis LAND REP USFWS Head/STSR SUBDIVISION Kb-34-36-17A (1 of 1)
EXXON Avery ADEC Bennis TIME 4:00 to 4:30
TEAM NO.: 20 TIDE LEVEL: +3.5 to +2 DATE 4 / 4 / 90
EST. SUBDIVISION LENGTH: 876 m ☐ Sun ☐ Clouds ☐ Fog ☐ Rain ☒ Snow
UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock
SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: N to S
SURFACE SEDIMENTS: R 0 % B 0 % C 15 % P 10 % G 15 % S 20 % M 40 % 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 0 m NO 876 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR					IMPACTED ZONES			
	/O	/R	/P	/B	BR	RW	SL	TL	LBR	SU	UI	MI	LI
ASPHALT PAVEMENT													
POOLED													
COVER													
COAT													
STAIN													
MOUSSE													
PATTIES													
TARBALLS													
FILM		–											
NO OIL										✓	✓	✓	✓

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	X		
Debris			

DEBRIS COLLECTED ☒ YES ☒ NO

TYPE Poms Poms // Boo-

#BAGS 6

Photographs:

Roll No. 0

Frames 0

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CM)	BELOW		OIL / FILM COLOR					PIT ZONE				ANA	SUBSURFACE SEDIMENTS
		OP	OR	OL	OF	NO		UO	UC	BR	RW	SL	TL	LBR	SU	UI	MI	LI		
1	30					✓	-										✓			MSG
2	30					✓	-									✓				MSG
3	30					✓	-									✓				MSG
4	30					✓	-										✓			MSG
5	30					✓	-									✓				MSG
							-													

COMMENTS No oil was observed in this section. Oil snare boom / pom-poms noted on sketch should be retrieved. Worked entire segment.

REVIEWED BAT DATE 7 Apr 90

ACE 1852789

OG Acton

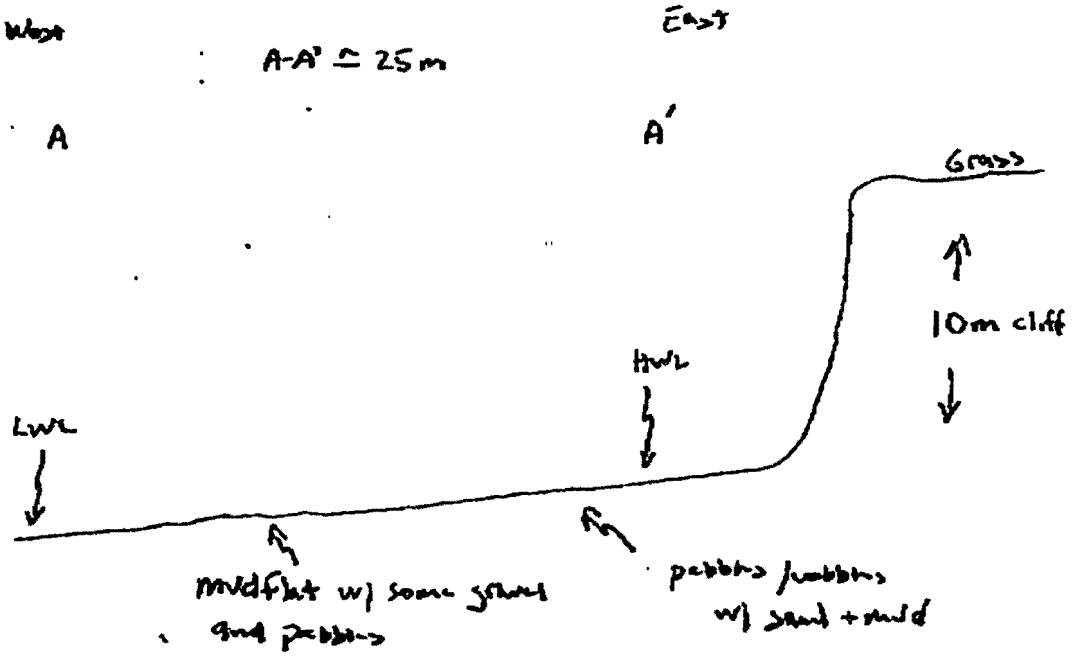
SEGMENT ST/ Ku-34-SL-17

SUBDIVISION Ku-34-SL-17A

DATE 4 / 4 90

SKETCH MAP

Approx Scale km ≈ 5m



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

ACE 1852790

Oil Character Length (m): AP 0 PO 0 CV 0 CT 0 ST 0 MS 0 PT 0 TB 0 FL 0 NO 876

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22/90

Segment ST / K06-34 Subdivision SL-17A Date (mo / day / yr) 4-4-90

Time (24 hr) 15:30 Biologist H. Davis

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

(B) Overall % cover of biota (% of segment): Dense ____ Moderate 50% Low 50% 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-20-03
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	X	3	3	X	3	X	X	X
4	4	4	4	X	4	4	X	4	X	X	X
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 1, 2, 5, 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	X	X	3	X	X
4	4	4	4	4	4	4	4	4	4	X	X
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 1, 2, 5, 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
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	X	3	3	X	X	3	X	X	3	X	X
4	4	4	4	X	X	4	4	X	4	X	X
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 1, 2, 5, 6

Wildlife Observations/ General Comments: Gastropods and Barnacles were the most common intertidal animals. Fucus was patchy, often individual cobbles would be covered with enough Fucus to float the cobble. A few large limpets were found each on their own cobble, littorina were present on the under side of cobbles and bruises of Barnacle Pintado (6-30) and mallards were feeding over the eelgrass beds. Eagles (1 juvenile) was seen in the area.

Ecological Considerations: (1A, 1B, & AA) The estuarine area is a major source of food for many species of bird, fish and mammals. Eelgrass beds provide food and protection for the salmon smolt.

ASC # 256-40 # 10010

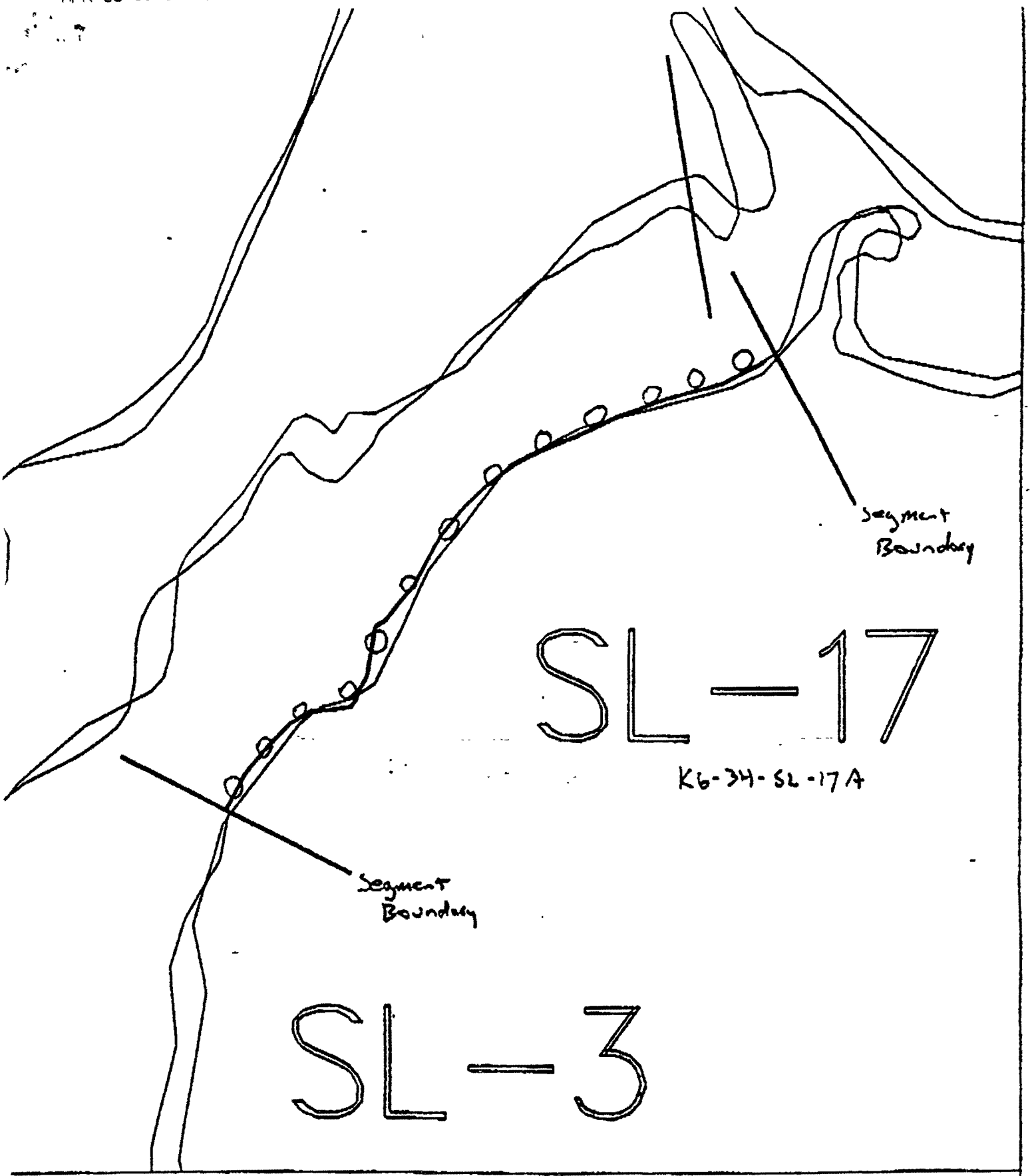
ACE 1852791

KODIAK ECOLOGICAL CONSTRAINTS

SL-17 -A

1A 1B	**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	**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 unoiled 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	**Subsistance 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.	

ACE 1852792



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

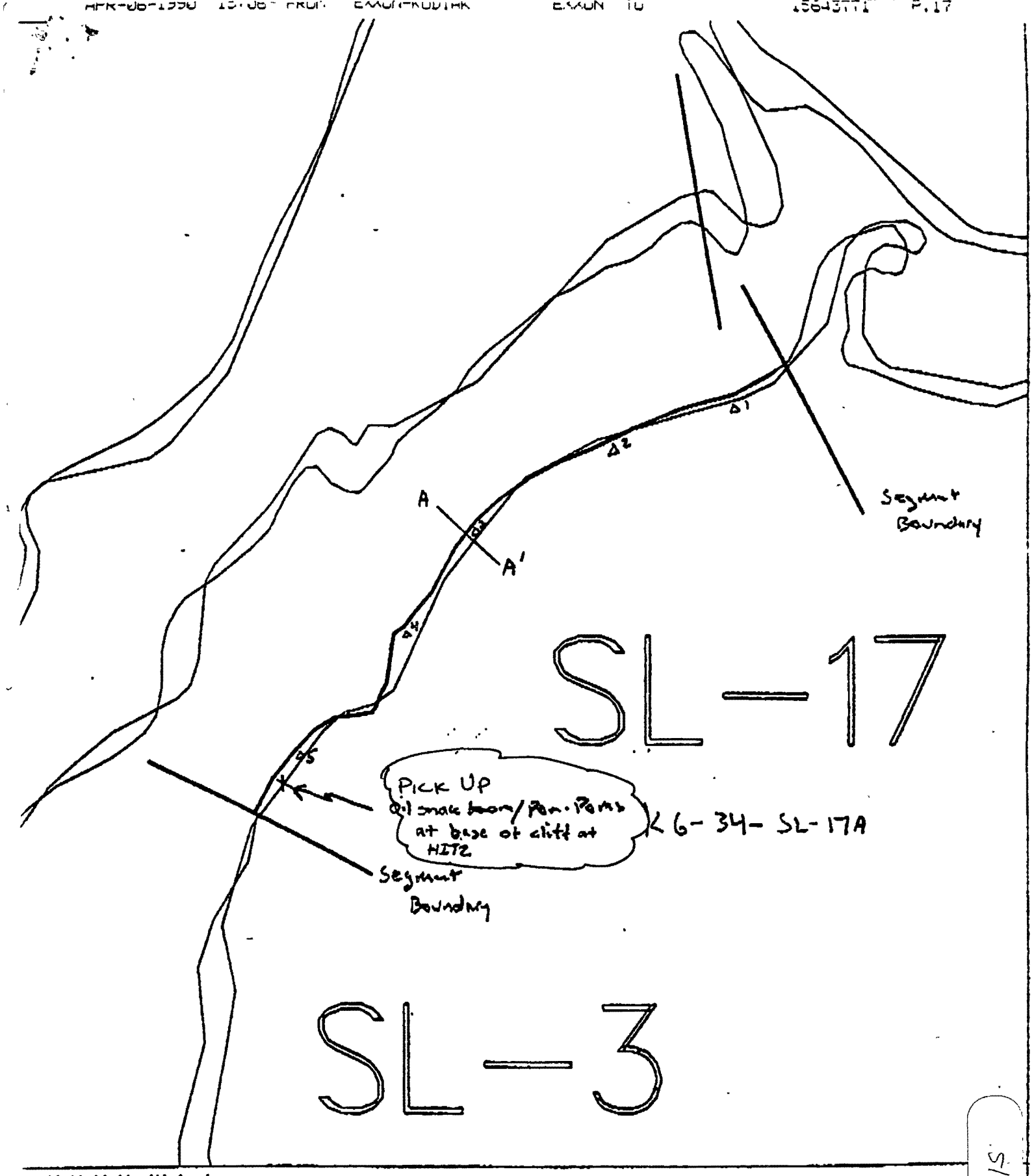
SL-17

ADEC Segment Length: 876m

0 100 200 300
METERS

K6-34-SL17A
Map Key: GOA-190
Name: Acton
Date: 4-4-90
Date Entered:

ACE 1852793



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

SL-17

ADEC Segment Length: 876m

0 100 200 300
METERS

KL-34-SL-17A
Map Key: GOA-190
Name: Acton
Date: 4-4-90
Data Entered:

ACE 1852794-/S

Duplicate.

FROM: FEDERAL ON SCENE COORDINATOR, EXXON VALDEZ

TO: KIK

SUBJ: FINAL COMMENT ON EXXON WORK ORDERS

1. THE FOLLOWING SEGMENTS ARE FORWARDED FOR YOUR YES/NO COMMENT ON THE EXXON WORK ORDER. THESE SEGMENT WORK ORDERS WERE APPROVED BY THE TECHNICAL ADVISORY GROUP ON 4-14-90 FOR THE FOSC FINAL DECISION AND SIGNATURE.

K06-34-SL-17A Y/N	_____ Y/N	_____ Y/N
_____ Y/N	_____ Y/N	_____ Y/N
_____ Y/N	_____ Y/N	_____ Y/N
_____ Y/N	_____ Y/N	_____ Y/N
_____ Y/N	_____ Y/N	_____ Y/N
_____ Y/N	_____ Y/N	_____ Y/N
_____ Y/N	_____ Y/N	_____ Y/N
_____ Y/N	_____ Y/N	_____ Y/N

2. PLEASE PROVIDE YOUR YES/NO COMMENTS ON EACH SEGMENT YOUR AGENCY IS RESPONSIBLE FOR WITHIN 24 HOURS OF RECEIPT.

D D Rome

D. D. ROME
OPERATIONS OFFICER
BY DIRECTION

RECEIVED _____ DATE _____

RETURNED _____ DATE _____

ACE 1852795+|S

REGION: KODIAK

SEGMENT: K06-34-SL-17

SUBDIVISIONS: A (1 OF 1)

ACE 1852796

SHORELINE EVALUATION

SEGMENT ST/ K06-34-SL-17 SUBDIVISION A (1 OF 1) DATE 4/7/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:
Salmon stream mouth no. 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 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 0 m: No Oil 880 m
Subsurface Oil Observed: Yes____ No X Maximum Depth_____

RECOMMENDATIONS:

_____No Treatment Recommended	_____Snare/Absorbent Booms
X Treatment Recommended	_____Oil Snares (pom poms)
X Manual Pickup	_____Absorbents (pads,rolls,etc)
_____Bioremediation	_____Spot Washing:_____Wands
_____Tarmat: _____Breakup	_____ Beach Cleaner
_____Removal	_____Other (see comments)

COMMENTS: Manual pick up of oil snare boom between 3/15 and 7/10.

TAG COMMENTS:

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

ACE 1852797

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / KK-34-SL-17 SUBDIVISION: KK-34-SL-17-A DATE 4/4/90

USCG
NAME D.D. Haven Jr, BM3, USCGR SIGNATURE [signature]

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED
COMMENTS

No oil sighted.

ADEC
NAME Francine J. Bonnis SIGNATURE [signature]

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED
COMMENTS

No oil observed.
There is, however, a portion of oil-snare boom lying at the top of the UIT2. It should be retrieved.
(See map for location)

LAND MANAGER
NAME JOHN P. HARBISTER SIGNATURE [signature] USFWS

~~☐ NO TREATMENT RECOMMENDED~~ ~~☐ TREATMENT SUGGESTED~~
COMMENTS

No oil observed - concur that oil-snare boom should be removed.

John Merrick [signature] John merrick Konig, Inc
Concur with ADEC recommendation

REVISION NO. 03/21/90

ACE 1852798

SHORELINE OILING SUMMARY

REVISION NO. 03-22/90

OG Acton USCG Haven SEGMENT ST/ Kv-34-36-17
BIO Davis LAND REP USFWS Hazdi/STSR SUBDIVISION Kv-34-36-17A (1 of 1)
EXXON Avery ADEC Bennis TIME 4:00 to 4:30
TEAM NO.: 20 TIDE LEVEL: +3.5 to +2 DATE 4 / 4 / 90
EST. SUBDIVISION LENGTH: 876 m ☐ Sun ☐ Clouds ☐ Fog ☐ Rain ☒ Snow
UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock
SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: N to S
SURFACE SEDIMENTS: R 0 % B 0 % C 15 % P 10 % G 15 % S 20 % M 40 % 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 0 m NO 876 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR					IMPACTED ZONES			
	/C	/S	/P	/A	BRN/BLK BR	DBL/RW	DY/SL	DBR/TL	LBR	SU	UI	MI	U
ASPHALT PAVEMENT													
POOLED													
COVER													
COAT													
STAIN													
MOUSSE													
PATTIES													
TARBALLS													
FILM													
NO OIL										✓	✓	✓	✓

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	X		
Debris			

DEBRIS COLLECTED ☒ YES ☐ NO

TYPE Poms Poms // Boom

#BAGS 6

Photographs:

Roll No. 0

Frames 0

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	UC	BRN/BLK BR	DBL/RW	DY/SL	DBR/TL	LBR	SU	UI	MI	U		
1	30					✓	-										✓			m s G
2	30					✓	-									✓				m s G
3	30					✓	-									✓				m s G
4	30					✓	-										✓			m s G
5	30					✓	-									✓				m s G
							-													

COMMENTS No oil was observed in this section. Oil snare boom / pom-poms noted on sketch should be retrieved Worked entire segment.

REVIEWED BAT DATE 7 APR 90

ACE 1852799

OG Acton

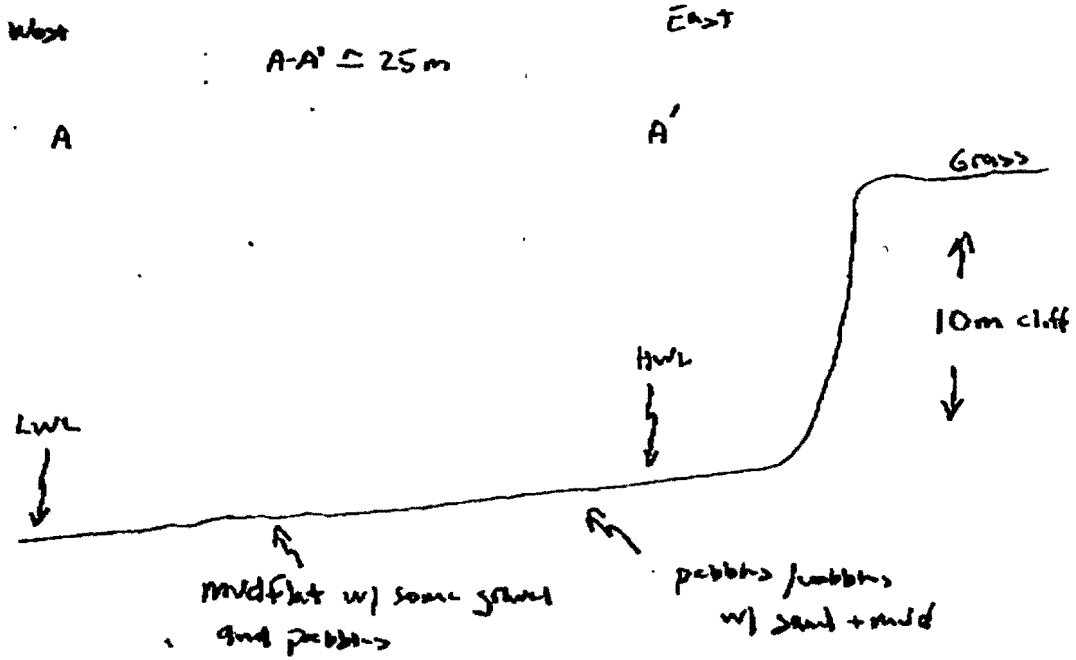
SEGMENT ST/ Kv-34-SL-17

SUBDIVISION Kv-34-SL-17A

DATE 4 / 4 90

SKETCH MAP

Approx Scale 1cm ≈ 5m



CHECKLIST

- ___ N Arrow
- ___ Approx. Scale
- ___ Seg/Sub Bndry
- ___ Oil Obst.
  - 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

ACE 1852800

Oil Character Length (m): AP 0 PO 0 CV 0 CT 0 ST 0 MS 0 PT 0 TB 0 FL 0 NO 876

REVISION 03/2000

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22/90

Segment ST / KOb-34 Subdivision SL-17A Date (mo / day / yr) 4-4-90

Time (24 hr) 15:30 Biologist H. Davis

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

(B) Overall % cover of biota (% of segment): Dense ____ Moderate 50% Low 50% 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-20-03
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	X	3	3	X	3	X	X	X
4	4	4	4	X	4	4	X	4	X	X	X
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 1, 2, 5, 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	X	X	3	X	X
4	4	4	4	4	4	4	4	4	4	X	X
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 1, 2, 5, 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
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	X	3	3	X	X	3	X	X	3	X	X
4	4	4	4	X	X	4	4	X	4	X	X
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 1, 3, 5, 6

Wildlife Observations/ General Comments: Gastropods and Barnacles were the most common intertidal animals. Fucus was patchy. Often individual cobbles would be covered with enough Fucus to float the cobble. A few large limpets were found each on their own cobble, littorina were present on the under side of cobbles and crevices of Barnacle plates (30-50) and mallards were feeding over the eelgrass beds. Eagles (1 juvenile) were seen in the area.

Ecological Considerations: (1A, 1B, 2AA) The estuarine area is a major source of food for many species of bird, fish and mammals. Eelgrass beds provide food and protection for the salmon smolt.

ASC# 256-40 # 10010

ACE 1852801

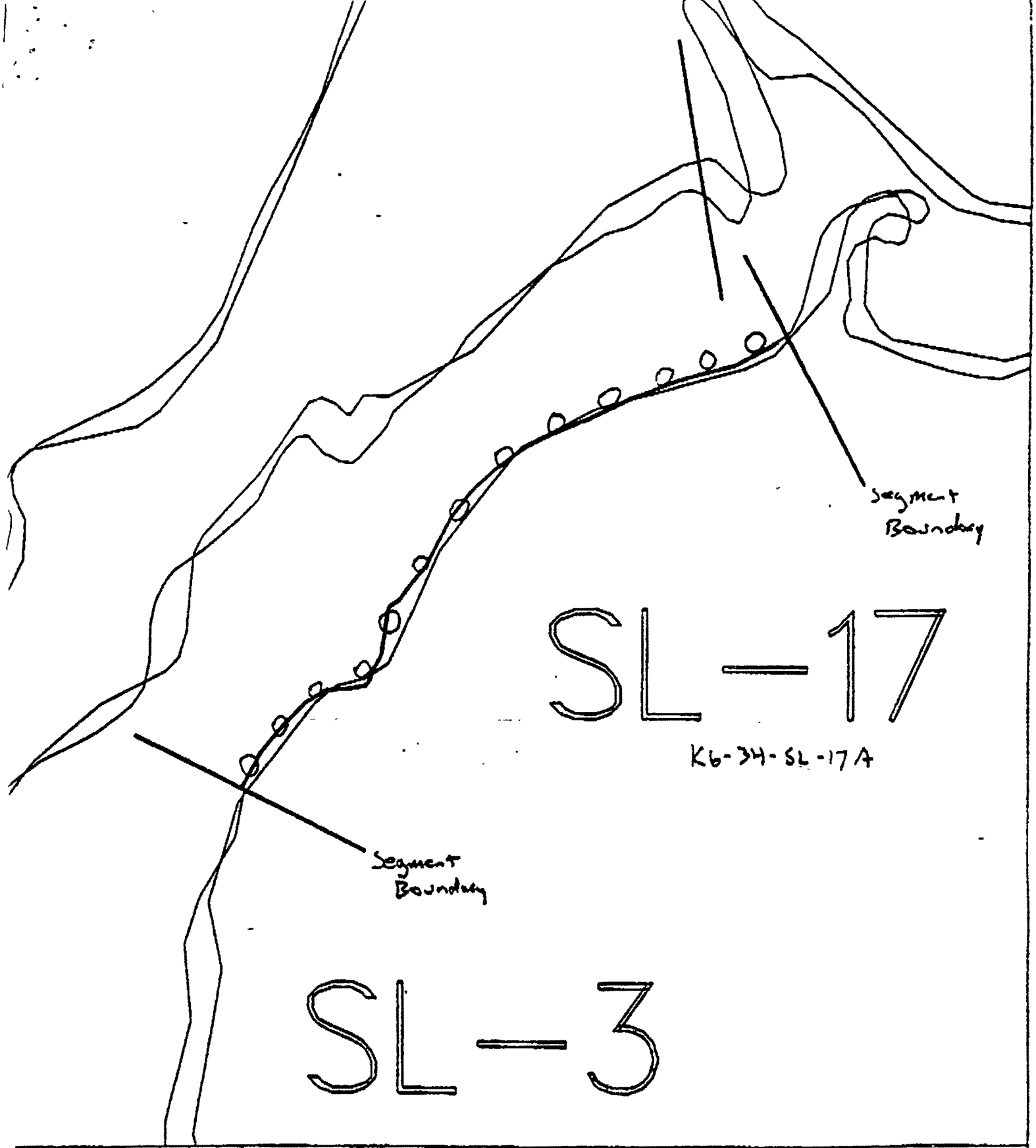
KODIAK ECOLOGICAL CONSTRAINTS

SL-17 -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	**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 unoiled 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.

ACE 1852802



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

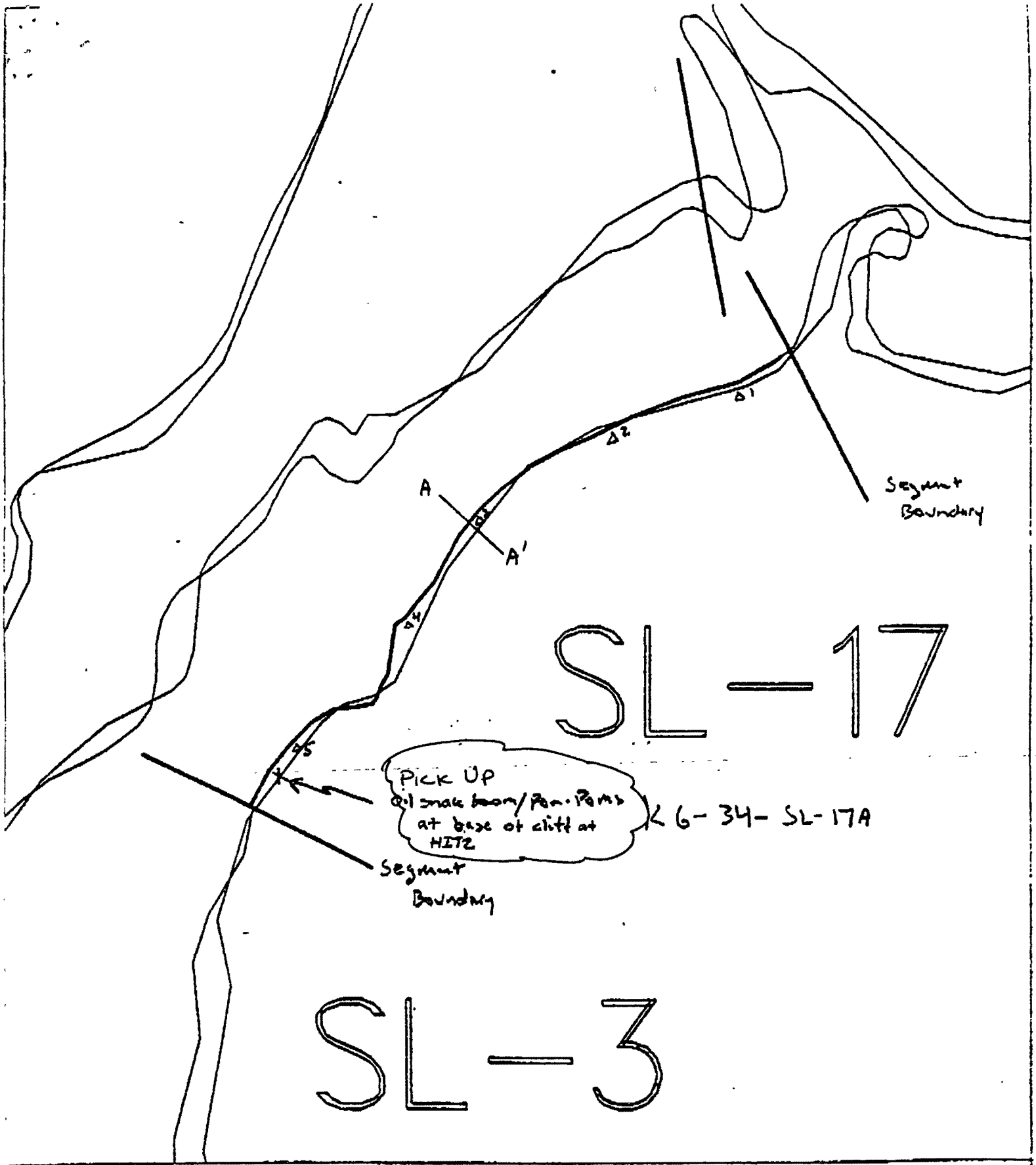
SL-17

ADEC Segment Length: 876m

0 100 200 300
METERS

K6-34-SL17A
Map Key: GOA-190
Name: Acton
Date: 4-4-90
Date Entered:

ACE 1852803



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

SL-17

ADEC Segment Length: 876m

0 100 200 300
METERS

K6-34-SL-17A
Map Key: GOA-190
Name: Acton
Date: 4-4-90
Data Entered:

ACE 1852804

SHORELINE EVALUATION

SEGMENT ST/ K06-34-SL-17 SUBDIVISION A (1 OF 1) DATE 4/7/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:
Salmon stream mouth no. 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 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 0 m: No Oil 880 m
Subsurface Oil Observed: Yes____ No X Maximum Depth_____

RECOMMENDATIONS:

_____No Treatment Recommended	_____Snare/Absorbent Booms
X Treatment Recommended	_____Oil Snares (pom poms)
X Manual Pickup	_____Absorbents (pads,rolls,etc)
_____Bioremediation	_____Spot Washing:_____Wands
_____Tarmat: _____Breakup	_____ Beach Cleaner
_____Removal	_____Other (see comments)

COMMENTS: Manual pick up of oil snare boom between 3/15 and 7/10.

TAG COMMENTS:

TAG APPROVAL DATE: 4/14/90
ADEC ~~Art Weiner~~ Dirt Weiner
EXXON ~~ANDY TEAL~~ _____ FOSC:_____ DATE:_____
NOAA ~~Burl Wescott~~ _____
USCG G.A. REITER G.A. Reiter

ACE 1852805-15

K6-34 SL-17 AFS 256-40-10010 (E)
Sturgeon River 1990

ACE 1852550+1C

STATE OF ALASKA

DEPARTMENT OF FISH AND GAME

STEVE COWPER, GOVERNOR

Rapifax 349-1723

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

RAPIFAX TRANSMITTAL SHEET

TO: Ken Middleton
Anch. Habitat

DATE: 5/11/90

No. Pages: 5
(including this page)

FROM: J. Barnhart
Kodiak Habitat

STURGEON LAGOON

MESSAGE:

Ken,

Info as per our discussion. Sturgeon needs To be added To The list of streams To be cleaned in The Kodiak zone: Note: Bioremediation in segment SL8 located in The lagoon.

SEGMENT K-6-34

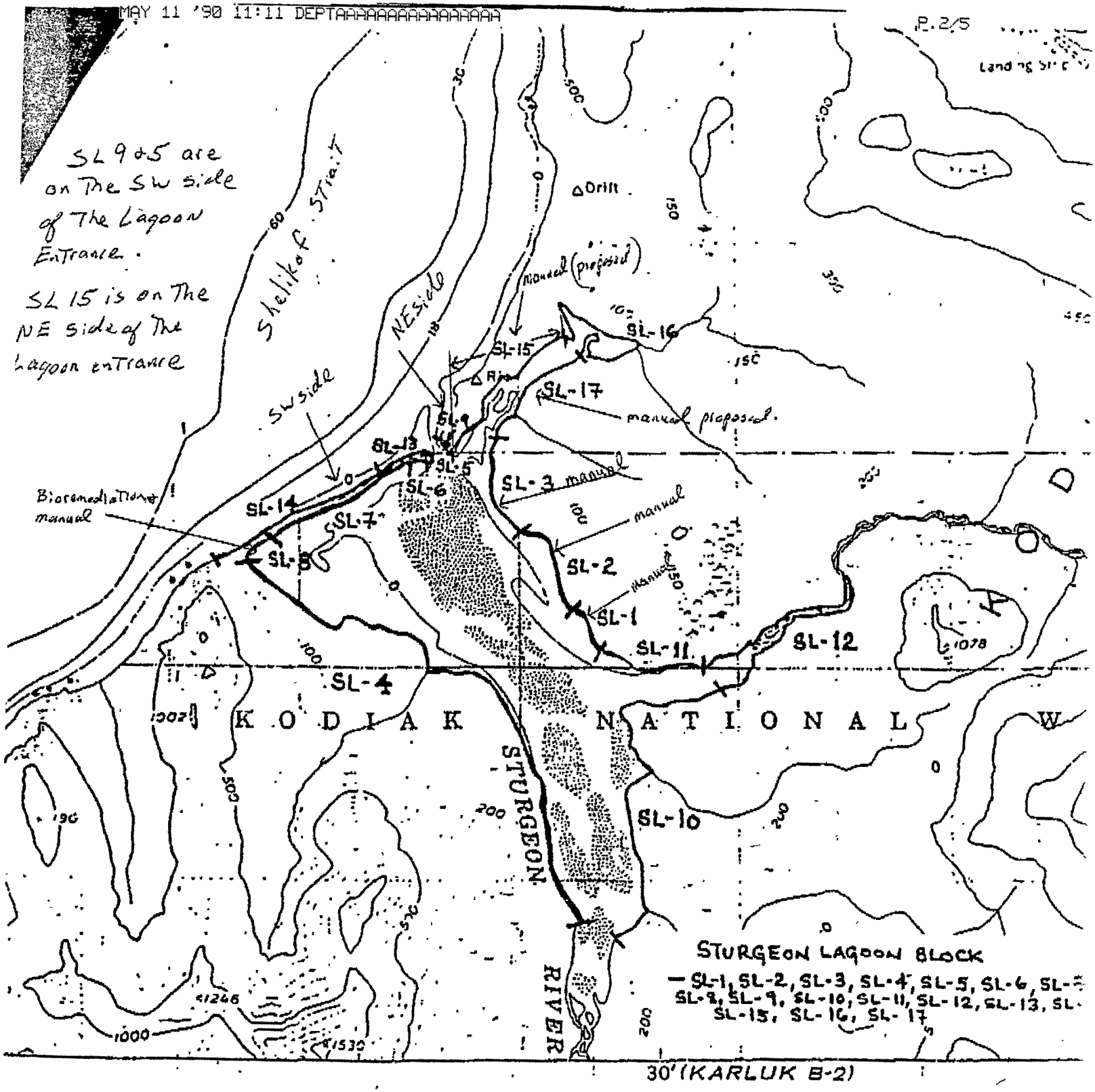
What is source of this material? DEC Work a Plan?

ALASKA STATE OF
FISH & GAME
MAY 11 1990
REGION II
HABITAT DIVISION

ACE 7686394
+LS

SL 9 & 5 are on The SW side of The Lagoon Entrance.

SL 15 is on The NE side of The Lagoon entrance



STURGEON LAGOON BLOCK

— SL-1, SL-2, SL-3, SL-4, SL-5, SL-6, SL-7, SL-8, SL-9, SL-10, SL-11, SL-12, SL-13, SL-15, SL-16, SL-17

30' (KARLUK B-2)

ACE 7686395

SCALE 1:63360

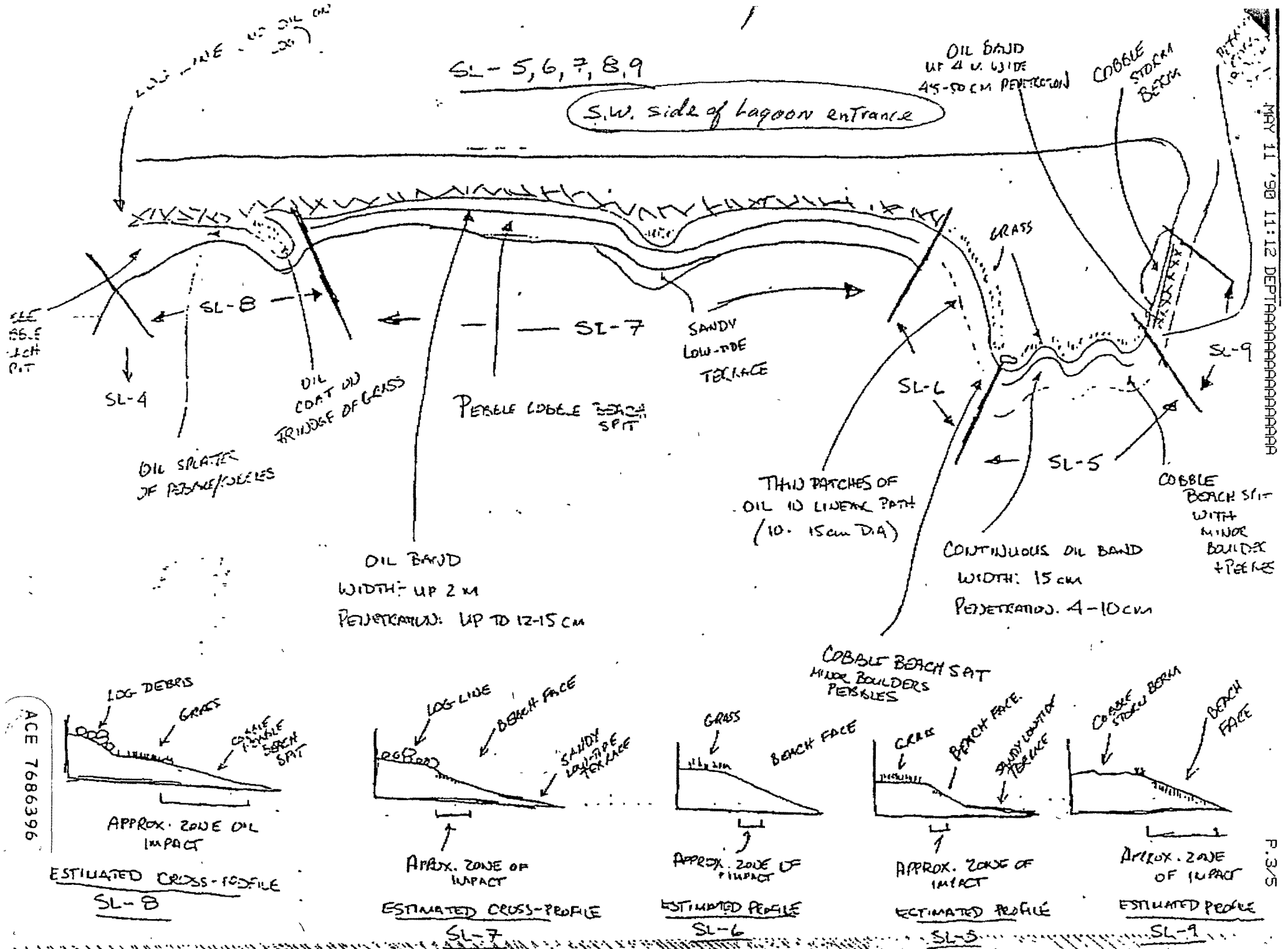
3000 0 3000 6000 9000 12000 15000 18000

1 5 0 1 2 3 4

MAGNETIC NORTH

ATE MEAN
ON. 1952

CONTOUR INTERVAL 100 FEET
DASHED LINES REPRESENT 50 FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929
DEPTH CURVES IN FEET – DATUM IS MEAN LOWER LOW WATER
SHORELINE SHOWN REPRESENTS THE APPROXIMATE LINE OF MEAN HIGH WATER
THE AVERAGE RANGE OF TIDE IS APPROXIMATELY 11 FEET



MAY 11 '90 11:12 DEPTAAAAAAAAAAAA

ACE 7686396

PROPOSED KISCC SEGMENTS TRACKING LIST

5/9/90

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
10	PAC STAT	Subdivision ID	Shoreline Segment	Segment Location	LMGR	Ph cp	Sur	Sub	LM RE	FOS PND	NTR	Man	Bio Rer		
33	wo-5/2	K0110-SB001B	Peravalnie Passasge	Shuyak IS.	DNR		1		NT		1				
34	sr-3/31	K0110-SI002	Peravalnie Passasge	Shuyak IS.	DNR						1				
35	wo-5/7	K0110-SI003A	Peravalnie Passasge	Shuyak IS.	DNR		1			1		1	1		
36	sr-3/31	K0110-SI005A	Peravalnie Passasge	Shuyak IS.	DNR		1	1		1		1	1		
37	wo-5/2	K0111-PI001A									1				
38	sr-3/31	K0111-PI003A					1			1		1	1		
39	wo-5/2	K0119-SE002A					1					1			
40	wo-5/2	K0204-FB003A					1				1				
41	wo-5/2	K0204-FB011A					1					1			
42	wo-5/2	K0204-FB012A					1				1				
43	wo-5/2	K0204-FB012B									1				
44	wo-5/2	K0204-FB012C									1				
45	wo-5/2	K0204-FB012D									1				
46	wo-5/2	K0204-FB012E									1				
47	wo-5/2	K0204-FB013A									1				
48	sr-3/29	K0204-FB013B								1	1				
49	wo-5/2	K0204-FB013C					1				1				
50	wo-5/2	K0204-FB014A									1				
51	wo-5/2	K0209-PA004A									1				
52	sr-4/1	K0210-MB006A					1			1	1				
53	not found	K0216-RI101A									1				
54	wo-5/2	K0302-IB002A					1				1				
55	wo-5/2	K0302-IB004A					1					1			
56	wo-5/2	K0302-IB005A					1					1			
57	wo-5/2	K0619-CK001A									1				
58	sr-3/30	K0619-CK003A								1	1				
59	wo-5/2	K0619-SB006A					1				1				
60	wo-5/7	K0634-SL001A					1			1		(1)			
61	wo-5/7	K0634-SL002A					1			1		(1)			
62	wo-5/2	K0634-SL003A					1					(1)			
63	wo-5/2	K0634-SL005A									{1	}			
64	wo-5/2	K0634-SL006A									{1	}			

ACE 7686397

MAY 11 '90 11:13 DEPTAAAAAAAAAAAA

WO = work order
SR = date surveyed no WO issued

PROPOSED KISCC SEGMENTS TRACKING LIST

5/9/90

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
10	PAC STAT	Subdivision ID	Shoreline Segment	Segment Location	LMGR	Ph op	Sur	Sub	LMRE	FOSPND	NTR	Man	Bio Ren		
65	wo-5/7	K0634-SL007A								1	1				
66	wo-5/2	K0634-SL008A					1	1				1	1		
67	wo-5/7	K0634-SL009A					1			1	1				
68	wo-5/2	K0634-SL011A									1				
69	sr-4/4	K0634-SL013A					1			1	1				
70	sr-4/4	K0634-SL014A					1			1	1				
71	sr-4/4	K0634-SL015A					1			1		1			
72	wo-5/2	K0634-SL016A									1				
73	sr-4/4	K0634-SL017A								1		1			
74	wo-5/2	K0703-LC005A									1				
75	wo-5/2	K0704-LB001A									1				
76	wo-5/2	K0804-UB003A									1				
77	sr-4-26	K0906-CP001													
78	sr-4/26	K0906-CP002A													
79	sr-5/5	K0907-CO001													
80	sr-5/5	K0907-CP001B													
81	sr-4/27	K0908-CD001									1				
82	sr-4/27	K0908-CD002													
83	sr-4/27	K0908-CD003A													
84	sr-4/27	K0909-CD003B													
85	sr-4/27	K0909-CD008													
86	sr-4/27	K0909-CD009													
87	sr-4/26	K0910-CD010													
88	sr-4/26	K0910-CD011A													
89	sr-4/26	K0910-CD012A													
90	sr-4/26	K0910-CD013A													
91	not found	K0910-CD014A													
92	sr-5/5	K0910-CD015									1				
93	not found	K0914-SK101A													
94	sr-5/3	K0917-CC001									1				
95	sr-5/3	K0917-CC002													
96	sr-5/4	K0917-CC004									1				

ACE 7686398

MAY 11 '90 11:14 DEPT

'90 cleanup

ASC NUMBER:
SEGMENT NUMBER: SL-17
YR CATALOGED:
LOCATION:
STREAM NAME: Sturgeon Lagoon
KODIAK K-UNIT:
LOCAL STREAM #:
LATITUDE:
LONGITUDE:
USGS QUADRANGLE:
LEGAL:
SHORELINE TYPE: Lagoon
WAVE EXPOSURE: Low

ASC NUMBER: 256-40-10010(7)
SURVEY TYPE: CL
METHOD: Foot
DATE: 6/30/90
START TIME:
STOP TIME: N/A

TEAM RECORDER: Jeff Barnhart
OBSERVERS: F. Byars, G. Harold, J. Reed

AGENCY(IES): ADF+G, Exxon, USCG, ADEC

PHOTOS TAKEN? N
Roll #: Frames:
VIDEO TAKEN? N Tape Number:
Counter Start:

SAMPLES TAKEN? N
SAMPLE I.D. NUMBERS: 1. 2. 3.
4. 5. 6.

OILING DATA

	LENGTH	WIDTH	M2	%	THICK	PEN	OIL TYPE
SITE 1	N/A						
SITE 2							
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT: N

OIL IN STREAM CHANNEL? N

SUBSTRATE

Bedrock		Granule
Boulder	N/A	Sand
Cobble		Silt
Pebble		Veget.

OIL ON BEACH WITHIN 50M OF STREAM MOUTH? N/A

SPECIES	N/A				
COUNT	N/A				

COMMENTS: This segment was surveyed by SSAT on 4-4-90 without representation of ADF+G habitat Division.

The boom indicated on the work order as located in SL-17 was in reality located in SL-003. IT was removed. NO other cleanup work was recommended for SL-17.

EVOS CLEANUP MONITORING, 1990.

REGION: Kodiak

K-UNIT: KOL-34

SEGMENT: SL-17

LOCATION: Sturgeon Lagoon

STREAM NAME: Sturgeon River

ANAD. STREAM CAT. #: 256-40-10010

ANAD. FISH STREAM PERMIT ISSUED: NO

DATE(S) WORKED: N/A

SQUAD #: 9 H/O

SQUAD SIZE: 6

NUMBER OF BAGS Collected: N/A

POUNDS OF OIL/OILED SEDIMENT REMOVED: N/A

TREATMENT TECHNIQUES: MANUAL REMOVAL BIOREMEDIATION

OTHER None

DEMOB DATE: 6/30/90

OIL SAMPLE #: N/A

OIL TYPE: N/A

SUBSTRATE TYPE: N/A

REPRESENTATIVES

EXXON: Fred Byars

USCG: Greg Harold

DEC: Randy (John) Reed

NPS: N/A

USF&WS: N/A

ADF&G: Jeff Bernhart

OTHER:

HOURS WORKED: N/A

TOTAL MAN HOURS worked: N/A

Work Order Issued 5-23-90

OIL BANDS

L	W	D	m^2	% oil cover	V
L	W	D	m^2	% oil cover	V
L	W	D	m^2	% oil cover	V
L	W	D	m^2	% oil cover	V
L	W	D	m^2	% oil cover	V

PHOTOLOG

Roll #	FRAME #	DESCRIPTION
N/A		

ACE 1852551+16/FF

PROBLEMS: This segment was surveyed by SSAT on 4-4-90 without representation of ADF&G Habitat Division.

OBSERVATIONS: The boom indicated on the work order as located in SL-17 was in reality located in SL-003. It was removed. No other cleanup work was recommended for SL-17.

SIGNED: Jeff Bernhart

(5)

STATE OF ALASKA

DEPARTMENT OF FISH AND GAME

STEVE COWPER, GOVERNOR

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

EXXON Valdez Oilspill Cleanup

Anadromous Fish Stream Authorization

Date 6/30/90

EXXON Authorized Representative _____

Shoreline Segment K06-37 SL-17

Anadromous Fish Stream Number(s) 256-40-10010

Sturgeon River, Kodiak Island

Approved Cleanup Techniques No Anadromous Fish Stream Authorization issued. The only Treatment on the work order is for the removal of an oil snare boom. The boom was located by the cleanup crew and monitors in segment SL03 NOT SL17. A ground and aerial survey of SL17 revealed no additional boom.

Approved Cleanup Period _____

Alaska Department of Fish and Game

Jeffrey P Barnhart
Authorized Officer

_____
Permittee's Signature

ACE 1852553

Field copy

Sturgeon Lagoon

SHORELINE EVALUATION

SEGMENT ST/ K06-34-SL-17 SUBDIVISION A (1 OF 1) DATE 4/7/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:
Salmon stream mouth no. 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 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: April 14, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 0 m: No Oil 880 m
Subsurface Oil Observed: Yes____ No X Maximum Depth_____

RECOMMENDATIONS:

_____No Treatment Recommended	_____Snare/Absorbent Booms
X Treatment Recommended	_____Oil Snares (pom poms)
X Manual Pickup	_____Absorbents (pads,rolls,etc)
_____Bioremediation	_____Spot Washing:_____Wands
_____Tarmat: _____Breakup	_____ Beach Cleaner
_____Removal	_____Other (see comments)

COMMENTS: Manual pick up of oil snare boom between 3/15 and 7/10.

Boom in SL 003 See work authorization in File.

TAG COMMENTS:

TAG APPROVAL DATE: 4/14/90.
ADEC Art Weaver Pat Weiner
EXXON ANDY TOTH
NOAA Burl Wescott
USCG G.A. REITER G.A. Reiter

FOSC: _____ DATE: 5-23-90

ACE 1852554+/S

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / KG-34-SL-17 SUBDIVISION: KG-34-SL-17-A DATE 4/4/90

USCG
NAME D.D. Haven Jr, GM3, USCGR SIGNATURE [signature]

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED
COMMENTS

No oil sighted.

ADEC
NAME Francine J. Bennis SIGNATURE [signature]

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED
COMMENTS

NO OIL OBSERVED.
There is, however, a portion of oil-snare boom lying at the top of the UITE. It should be retrieved.
(See map for location)

LAND MANAGER
NAME JOHN P. HARDISTER SIGNATURE [signature] USFWS

~~☐ NO TREATMENT RECOMMENDED~~ ~~☐ TREATMENT SUGGESTED~~
COMMENTS

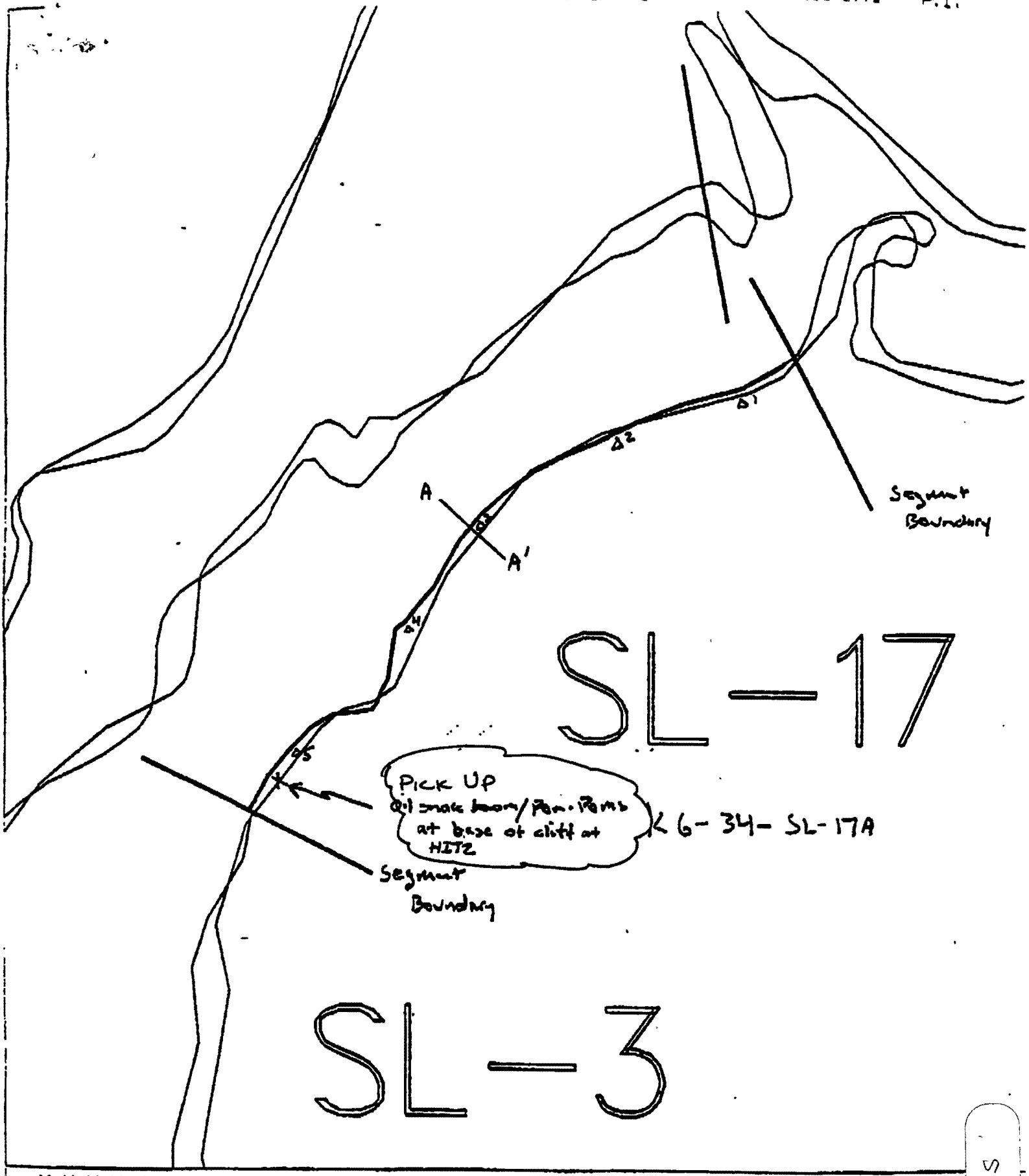
No oil observed - concur that oil-snare boom should be removed

John Merrick [signature] John merrick Konigs, Inc

Concur with ADEC recommendation

REVISION NO. 03/21/90

ACE 1852555



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

SL-17

ADEC Segment Length: 876m

0 100 200 300
METERS

KG-34-SL-17A
Map Key: GOA-190
Name: Acton
Date: 4-4-90
Data Entered:

ACE 1852556-1S

JUN-25-1990 15:54 FROM EXXON OPERATIONS MAIN TO

FROM: Fred BYARS
TO: VESSEL COMMAND NETWORK
FAX No: (907) 266-6490

OPERATIONS DAILY REPORT
SQUAD 9 - SEATRADER/HELICOPTER

DATE OF WORK: 6/30/90 WORK HOURS: START 0830 TO: 2000

WEATHER CONDITIONS: Wind Speed (Knts) _____ Wave Height(Ft) _____ GENERAL _____
TIDES: HIGH _____ Time _____ HIGH _____ Time _____
LOW _____ Time _____ LOW _____ Time _____
GENERAL LOCATION: _____

SAFETY INCIDENTS	For Day
Fatality	
Lost Time	
Restricted	
Medical Treatment	
Total Recordable	

(Transmit Details Separately)

SCHEDULED WORK DAY HOURS (ex Break) =	Vessel 12	Helo 12
Working		
Weather Downtime		4
Transit Time		2
Mechanical Downtime		2
Other:		

VESSEL REPRESENTATIVES NAMES
ADEC _____
Exxon _____
USCG _____
OOPS _____
Other _____

HELICOPTER REPRESENTATIVES NAMES
ADEC Randy Reed
Exxon Fred BYARS
USCG Craig Harold
Other Mike Goodwin ADN
Jeff Barnhart ADFG

MANPOWER AND BILLETING STATUS (# of People)

Berthing Vessel	PAX * Beds	Exxon Reps	OOPS	Agency Reps	Other	Beach Wkrs Wkg	Beach Wkrs Idle	Open Beds
Sea Trader	16							

Helicopter # of Workers
6

* COI Passenger Beds (Includes Service Personnel)

	Boat Crews
Berthing Vessels	
LCV/Production	
Work Boats	
TOTALS	

Helicopter Tail #'s
509 EH
511 EH
Work Areas
BK6-34 SL 1,2
3, 8, 17

VESSEL STATUS (# of Vessels)

Vessel Type	Total Asignd	In Transit	Total Working	Not Used	Mech Down	Weath Down
Berthing						
LCV/Production						
Work Boat						
TOTALS						

VESSELS ASSIGNED:

Vessel Name	Vessel Type	# People Berthed
Sea Trader	Berthing	

NEXT SQUAD MOVE: LOCATION KD112 55009 DATE OF MOVE 7/1/90

DATE OF LAST CREW CHANGE _____ SCHEDULED DATE FOR NEXT CREW CHANGE _____
PORT FOR CREW CHANGE _____ PORT FOR CREW CHANGE _____

VISITORS (Name/Affiliation) _____

STATUS OF SUPPLIES/STORAGE CAPACITIES: _____

NUMBER OILED/DEAD BIRDS FOUND _____ # Alive NUMBER OILED/DEAD MAMMALS FOUND _____ # Alive _____
OTHER* _____

* Such as discovery of dead oiled birds/mammals, Archeological Artifacts, Wildlife incidents, etc.

ACE 1852557

SL 9 & 5 are on The SW side of The Lagoon Entrance.
SL 15 is on The NE side of The Lagoon entrance
Shelikof Strait
NE side
SW side
Manual (proposed)
SL-15
SL-16
No Treatment
SL-17
manual
SL-13
SL-5
SL-6
SL-3 manual
SL-14
SL-7
Bioremediation + manual
SL-8
SL-2
manual
SL-1
SL-11
SL-12
SL-4
KODIAK NATIONAL
STURGEON RIVER
SL-10
NO SSHT
STURGEON LAGOON BLOCK
— SL-1, SL-2, SL-3, SL-4, SL-5, SL-6, SL-
SL-8, SL-9, SL-10, SL-11, SL-12, SL-13, SL
SL-15, SL-16, SL-17
30' (KARLUK B-2)
SCALE 1:63360
3000 0 3000 6000 9000 12000 15000 18000
MAGNETIC NORTH
CONTOUR INTERVAL 100 FEET
DASHED LINES REPRESENT 50 FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929
DEPTH CURVES IN FEET – DATUM IS MEAN LOWER LOW WATER
SHORELINE SHOWN REPRESENTS THE APPROXIMATE LINE OF MEAN HIGH WATER
THE AVERAGE RANGE OF TIDE IS APPROXIMATELY 11 FEET
ATE MEAN
ON. 1952
ACE 1852558

STATUS OF OPEN WORK AREAS

SQUAD 9 – HELICOPTER

DATE OF WORK: 6/30/90 WORK HOURS: START 0830 TO: 2000

MANUAL AND MECHANICAL OPERATIONS

Segment	Sub Div	Date Work Started	Date Demob Approved *	WORK STATUS: Manual Pickup	Tarmat Asphalt Removal	Spot Wash	Tilling /Raking	Bio	Anad Streams	Other Describe	DAILY QUANTITIES: # of Supers f Supersac Oiled Matl	Oiled Sediments	Square Meters Washed	Granular Bio: Lin Mtrs Covered	Sq Mtr Covered	Lbs Used	Cords Wood Burned
K6-34SL1	A	6/30/90	6/30/90	100%							.12	.					
K6-34SL2	A	6/30/90	6/30/90	100%							.08						
K6-34SL3	A	6/30/90	6/30/90	100%							.05						
K6-34SL8	A	6/30/90	6/30/90	—							0						
K6-34SL17	A	6/30/90	6/30/90	—							0						

SEGMENT	SUB DIV	DEMOB DATE	DEMOBILIZATION ACKNOWLEDGMENT: USCG	ADEC	EXXON
K6-34SL1	A	6/30/90		John R. Rod	Fred Byers
K6-34SL2	A	6/30/90		John R. Rod	Fred Byers
K6-34SL3	A	6/30/90		John R. Rod	Fred Byers
K6-34SL8	A	6/30/90		John R. Rod	Fred Byers
K6-34SL17	A	6/30/90		John R. Rod	Fred Byers

* The date that the Manual/Mechanical portion of the Work Order has been completed and acknowledged. A separate acknowledgement will be made for the Bioremediation portion of the Work Order.

** 1 Supersack = 45 CF, report in tenths of sack (ie. 0.1)

STATUS CODES

NA	Not Applicable/Recommended for this segment division
N	Recommended but not started
W	Started and Working
#%	Percentage complete (used on large work scopes)
C	Work complete

ACE 1852559

FIELD SHORELINE COMMENT SHEET ASAP

K-6-34

SEGMENT AS / SL-17 SUBDIVISION: A SITE: 1 DATE 13 Aug 90

USCG

NAME J. Schultz SIGNATURE Jerry Schultz

☐ YES ☒ NO PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

ADEC

NAME F. Bennis SIGNATURE Francis J Bennis

☐ YES ☒ NO PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

Fly-by assessment; SSAT report indicated no oil.

LAND MANAGER

NAME J. Merrick SIGNATURE John Merrick

☐ YES ☒ NO PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

EXXON

NAME T. Tomblin SIGNATURE

☐ YES ☒ NO PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

SSAT REPORT INDICATED NO OIL
NO DEBRI FOUND IN FLY BY

REVISION NO. 7/26/90

ACE 1852560 +15

ASAP SHORELINE OILING SUMMARY

PAGE · OF

TEAM NO. Kodiak #5 EXXON J Tomblin SEGMENT AS/ SL-17
OG D. FITZGERALD USCG J Schultz SUBDIVISION A
ADEC F Bennis LAND REP John Merrick TOTAL NO. SITES 1
DATE 13 / Aug / 90 TIME 15:30 to 15:33 TIDE LEVEL 210 to 210 cm ABOVE MLW
TOTAL EST LENGTH OF SHORELINE SURVEYED: 876 m
SURVEYED FROM: ☐ Foot ☐ Boat ☑ Helo WEATHER: ☑ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
OIL CATEGORY LENGTH: W ____ m M ____ m N ____ m VL ____ m NO ____ m US ____ m

SURFACE OIL

CHARACTER	SITE 1 DISTRIBUTION /C	/B	/P	/S	SITE 1 OILED ZONES SU	UI	MI	LI	SITE 2 DISTRIBUTION /C	/B	/P	/S	SITE 2 OILED ZONES SU	UI	MI	LI	SITE 3 DISTRIBUTION /C	/B	/P	/S	SITE 3 OILED ZONES SU	UI	MI	LI
ASPHALT																								
S.O.R.																								
POOLED																								
COVER																								
COAT																								
STAIN																								
MOUSSE																								
PATTIES/T.B.																								
FILM																								
NO OIL					X	X	X	X																
EST. SITE LENGTH					876																			

SUBSURFACE OIL

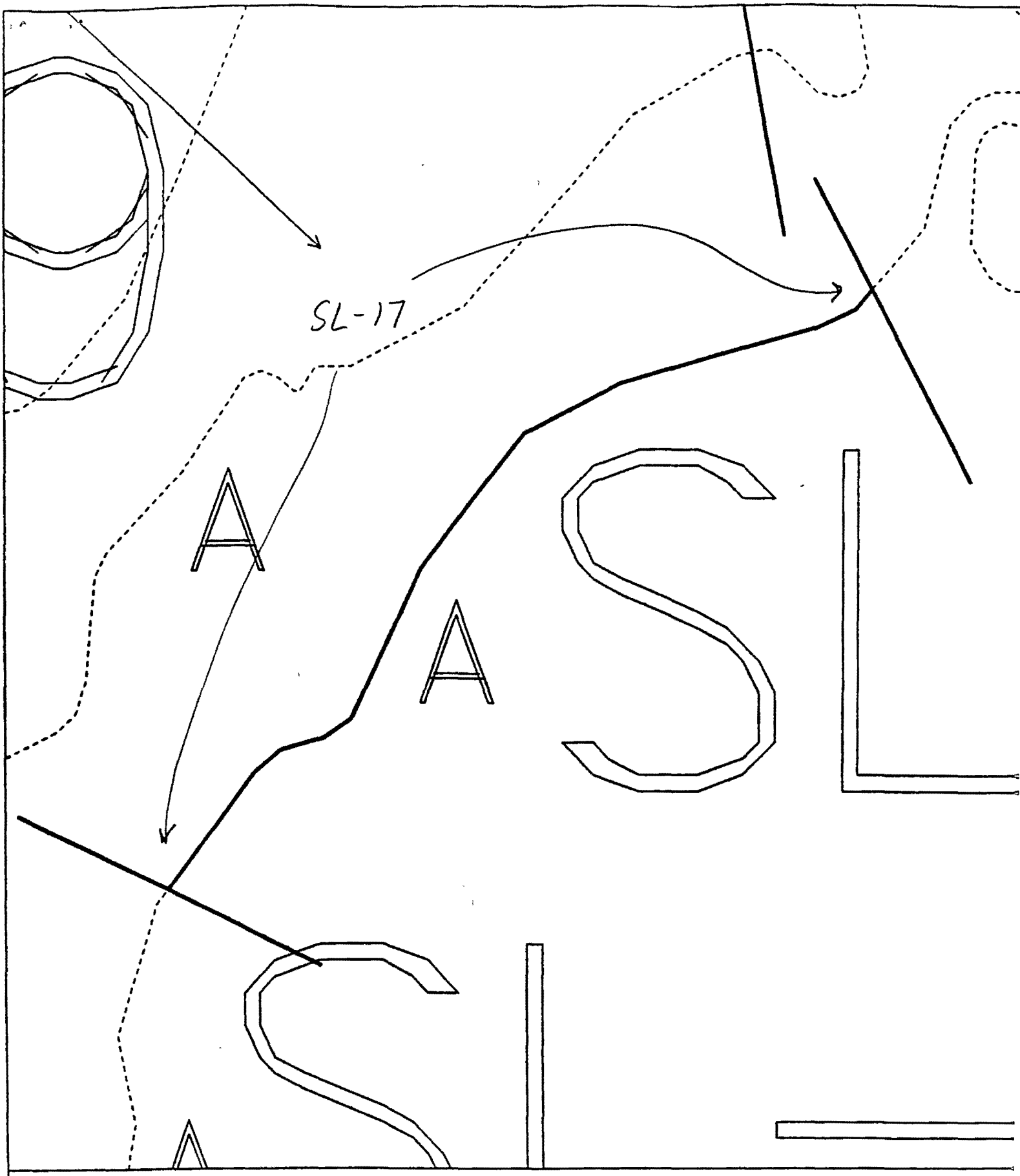
SITE NO.	PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER OP	OR	OF	NO	OILED INTERVAL (CM-CM)	CLEAN BELOW (Y/N)	PIT ZONE SU	UI	MI	LI	SURFACE-SUBSURFACE SEDIMENTS
							-						
							-						
							-						
							-						
							-						
							-						
							-						
							-						
							-						
							-						
							-						
							-						

Photographs:
Roll No. None taken
Frames ____

COMMENTS This area was shown in the SSAT report to have no oil and therefore this area was flown to verify that no oiled debris existed. It was clean

ACE 1852561

REVISION NO. 7/2



SEGMENT K6-34 SL-17 Segment Location Map

EXXON

Map Key: KODK6-34SL-17

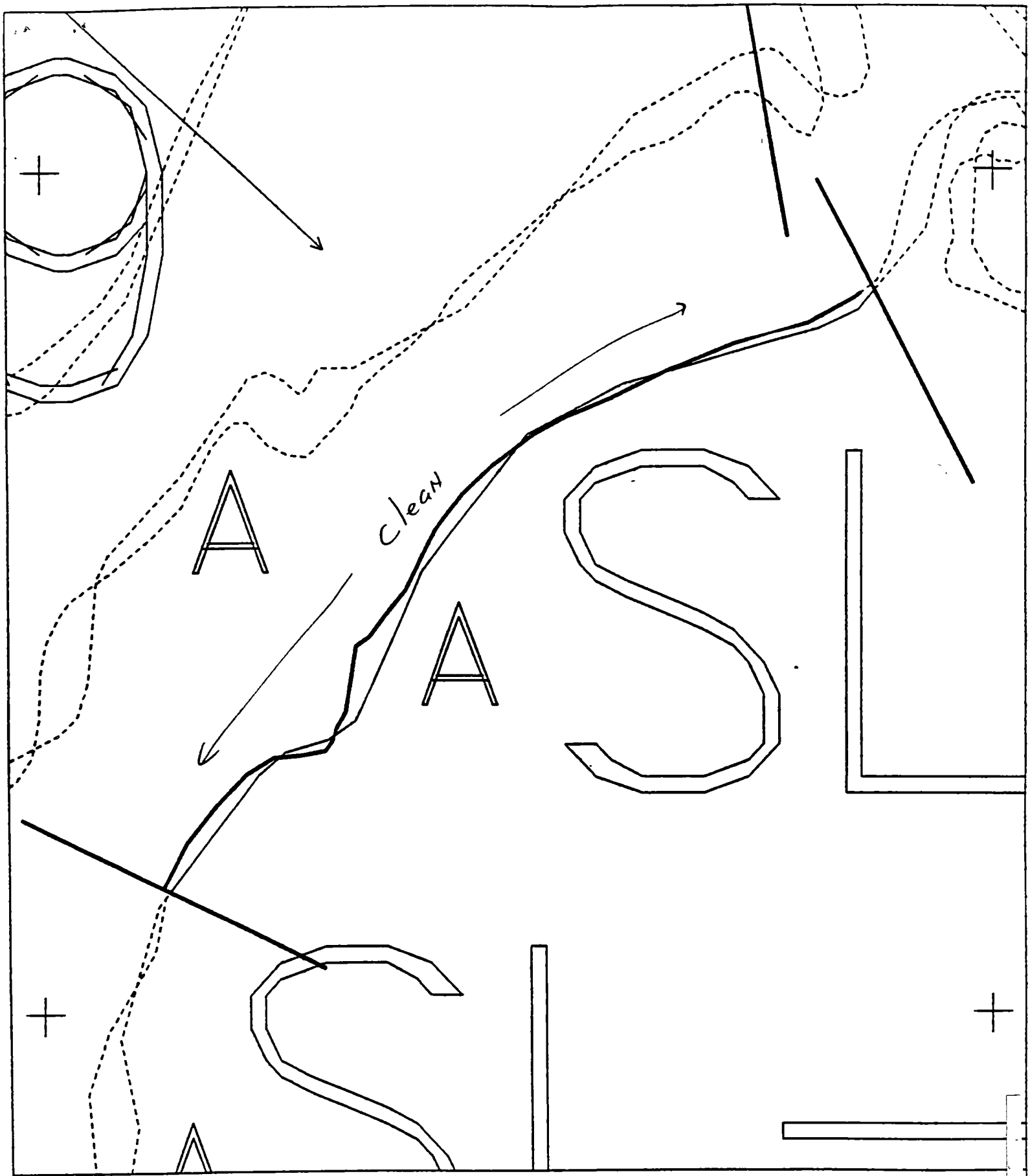
ACE: 1852562

July 18, 1990

METERS

0 115 230

1:4534



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

K6-34 SL-17 A

ADEC Subsegment Length: 880m

METERS

0 115 230

AK State Plane Zone 4 1:4534

EXXON

Subdivision Field Map

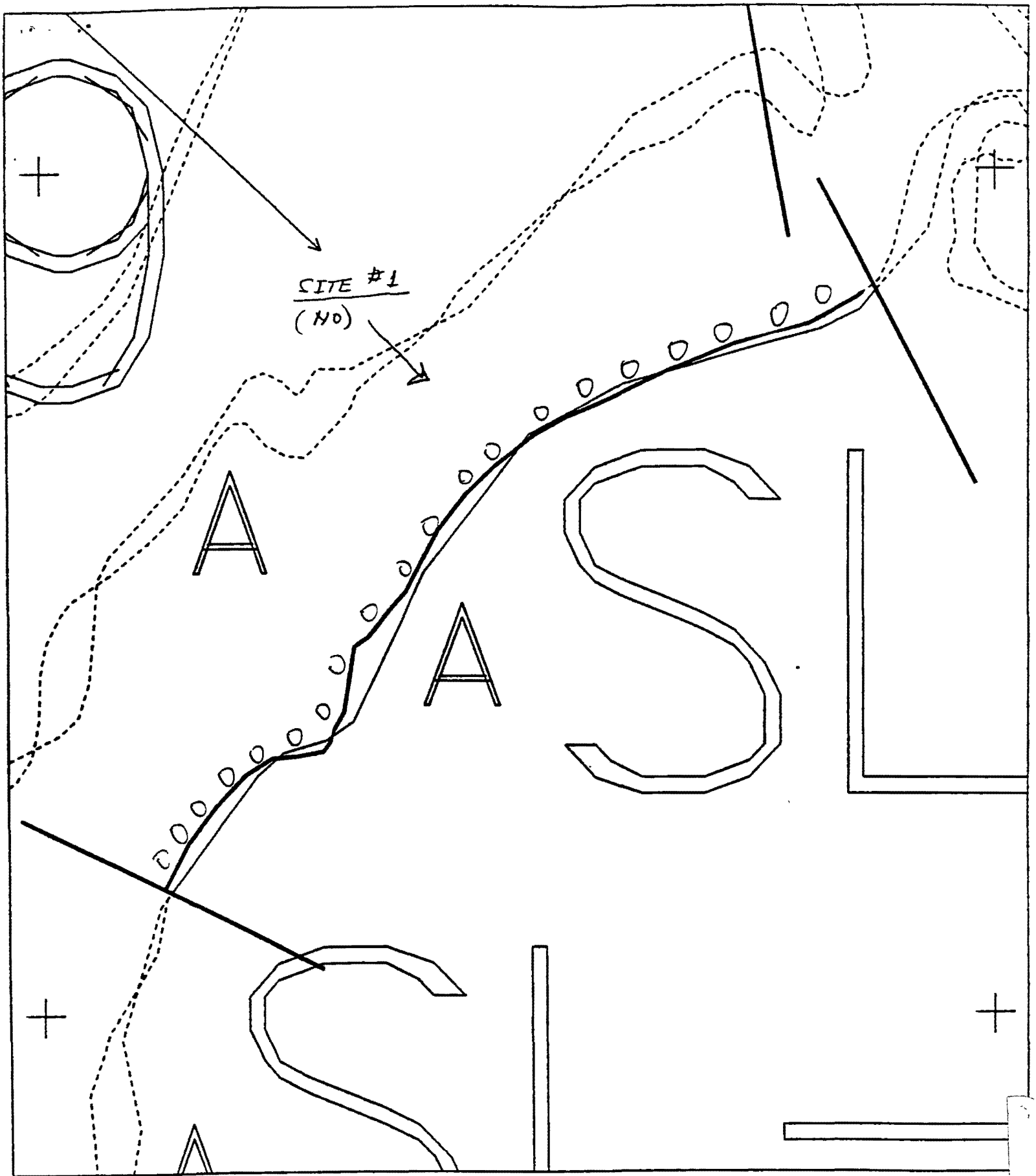
Map Key: KODK6-34SL-17A

Name: O. FitzGerald

Date: 12 Aug 1990

Data Entered:

ACE 1852563



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

K6-34 SL-17 A

ADEC Subsegment Length: 880m

METERS

0 115 230

AK State Plane Zone 4 1:4534

EXXON

Subdivision Field Map

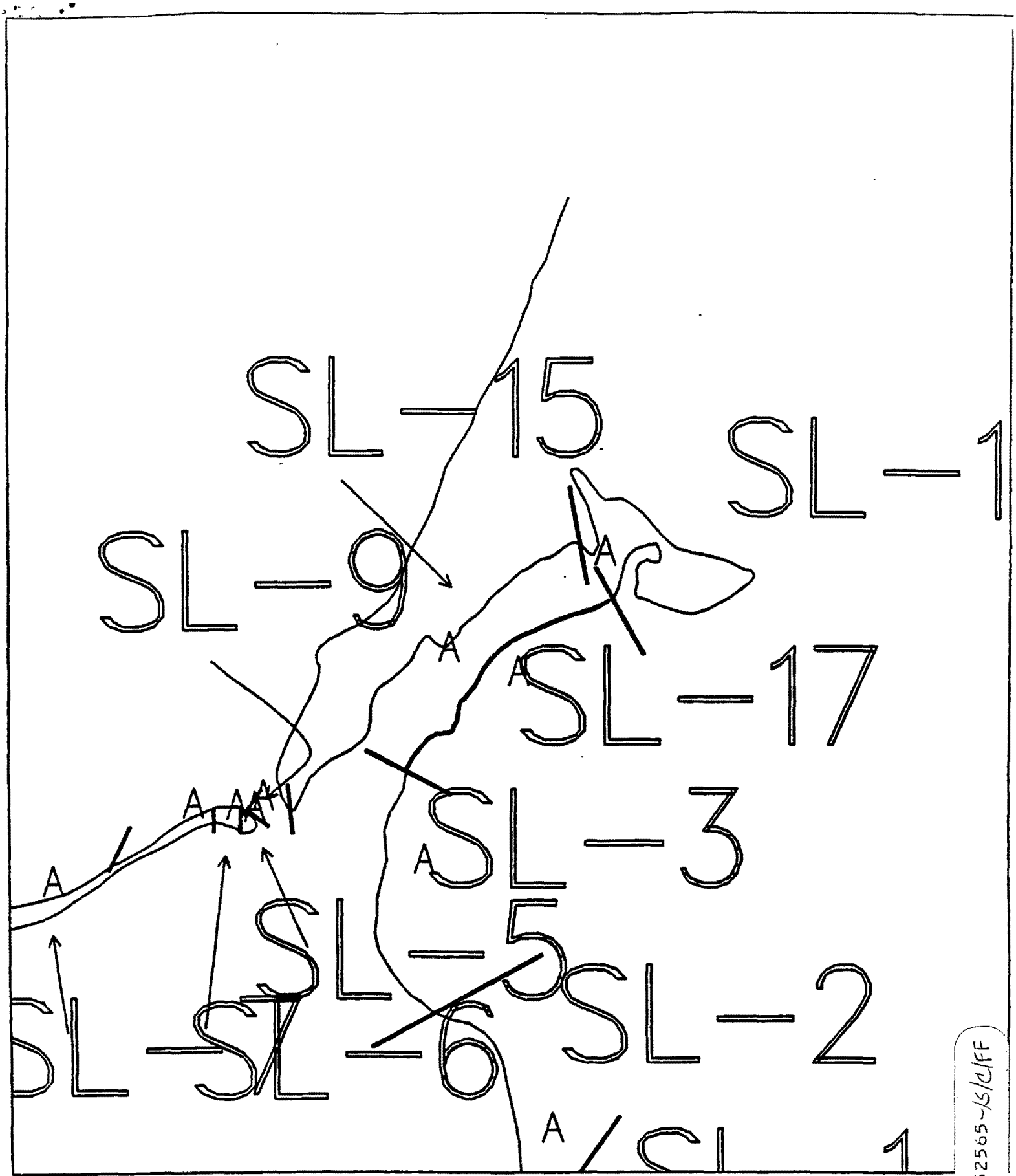
Map Key: KODK6-34SL-17A

Name: D. FitzGerald

Date: 13 August 1990

Data Entered:

ACE 1852564



EXXON

Exxon Company, USA
Map Key: KOD-SL-17

ECOLOGY MAP
SEGMENT K6-34 SL-17

SUBDIVISION ___ (___of___)

METERS

★ Seabird Colony
▲ Active Eagle Nest
△ Inactive Eagle Nest

ACE 185256S-JS/d/FF

6-34 SL-15 AFS 256-40-10010 (6)
Sturgeon River 1990

ACE 18526151
+1F1C1HF

PRE SCREEN

ADF&G MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS (SS) DS TS AVS SCHA MMHS PTA 2 REGION: PWS KP,CI (K),AP

METHOD: Aerial (Ground) Boat

3 DATE: 4-25-90 15 HIGH TIDE TIMES: ____ / ____ 21 TEAM RECORDER: E. WEISS

4 START TIME: 1203 16 HIGH TIDE HTS: ____ / ____ 22 OBSERVERS: J. BARNHART, B. THOMAS

5 STOP TIME: 1220 17 LOW TIDE TIMES: 0917 / ____ 23 AGENCY: ADFG

6 SEGMENT #: ____ 18 LOW TIDE HTS: -5.0 / ____ 24 PHOTOS TAKEN: Y (N)

7 STATION #: ____ 19 TIDE HT AT SURVEY: ____ Roll #: ____ Frame: ____

8 K-UNIT: K6-34 Ebb Slack Flood Slack 25 VIDEO TAKEN: Y (N) TAPE#: ____

9 STAT AREA: ____ 20 USCG QUAD: ____ Start: ____ End: ____

10 LAT: ____ 11 LONG: ____ 26 SAMPLES TAKEN? Y (N) Number

12 SOURCE: Map Loran Oil ____

13 LOCATION: STURGEON LAGOON, Kodiak Island Sediment ____

14 DESCRIPTION: ____ Biological ____

Water ____

EXTENT OF OIL

	SHORELINE L	SHORELINE W	SHORELINE M²	SHORELINE %	STREAM L	STREAM W	STREAM M²	STREAM %
27 SURFACE COVERAGE								
28 SURFACE THICKNESS								
29 PENETRATION								

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

31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain

32 OILED DEBRIS? Y (N)

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

34 WAVE EXPOSURE: High Moderate (Low)

35 SUBSTRATE TYPE: Bedrock ____ Boulder ____ Cobble ____ Gravel ____ Sand ____ Mud/silt 100

36 CATALOGED ANAD. FISH STREAM? (Y) N

37 CATALOG #: 256-40-10010(6)

38 STREAM NAME: Sturgeon Lagoon

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: Did not survey mouth area

43 ANADROMOUS FISH PRESENT? Y (N)

44 ANADROMOUS FISH OBSERVATION

Species	Aerial	Ground

Data ~~entry~~ note: ~~no segments~~

COMMENTS: CHECKED EXTENSIVE MUD FLATS DURING EXTREME LOW TIDE FOUND NO OIL IN MUD/SAND FLATS.

RECOMMEND: NO ANADSSAT NEEDED. BUT CLEANUP BE CONDUCTED ACCORDING TO FINDINGS OF SSAT TEAMS FOR STURGEON LAGOON SEGMENTS: SL 1-3, 15, 7, 8, 17 Jeff Barnhart

ACE 1852496 +/F/HF

45 PHOTOLOG

FRAME(S)	DESCRIPTION

46 OIL DISTRIBUTION DIAGRAM

= Sample taken

= Photo frame # and shot direction.

ACE 1852497

'90 cleanup

ASC NUMBER:
SEGMENT NUMBER: SL-15
YR CATALOGED:
LOCATION:
STREAM NAME: Sturgeon Lagoon
KODIAK K-UNIT: K06-34
LOCAL STREAM #:
LATITUDE:
LONGITUDE:
USGS QUADRANGLE:
LEGAL:
SHORELINE TYPE: Lagoon
WAVE EXPOSURE: Low

ASC NUMBER: 256-40-10010 (6)
SURVEY TYPE: CL
METHOD: Foot
DATE: 7/10/90
START TIME: 1515
STOP TIME: 1700

TEAM RECORDER: JEFF BARNHART
OBSERVERS: F. Byars, J. Davis, D. Wydoski, H. Overton J. Carlson
AGENCY(IES): ADF&G, Exxon, USCG, USF&WS, WPS, ADEC

PHOTOS TAKEN? N
Roll #: Frames:
VIDEO TAKEN? N Tape Number:
Counter Start:

SAMPLES TAKEN? N
SAMPLE I.D. NUMBERS: 1. 2. 3.
4. 5. 6.

OILING DATA

	LENGTH	WIDTH	M2	%	THICK	PEN	OIL TYPE
SITE 1	4m	1m	4	15	1.5cm	Ø	TB, PT, MS
SITE 2	1m	.5m	.5	10	1.5cm	Ø	TB, PT, MS
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT: L

OIL IN STREAM CHANNEL? Y

SUBSTRATE

Bedrock	Granule 15
Boulder	Sand 10
Cobble 25	Silt 25
Pebble 25	Veget.

OIL ON BEACH WITHIN 50M OF STREAM MOUTH? N/A

SPECIES					
COUNT					

COMMENTS: This segment was surveyed by SSAT on 4-4-90 without representation of ADF&G Habitat Division. Did NOT locate the 3m x 30m area as indicated on the SSAT sketch map. Instead we located an area in the same location of 4m x 1m. A second area of 1m x .5m was also found. Sporadic MS, TB, PT were found along the length of this segment. Pom Pom boom and empty Exxon-Veco plastic cleanup bags from 1989 were also located and removed. Fifty-Five gallon drums of unknown origin remain in this segment at the mouth of the lagoon, Oil and cleanup debris amounted to 200 pounds.

EVOS CLEANUP MONITORING, 1990.

REGION: Kodiak

K-UNIT: Kod-34

SEGMENT: SL-15

LOCATION: Sturgeon Lagoon

STREAM NAME: Sturgeon River

ANAD. STREAM CAT. #: 256-40-10010

ANAD. FISH STREAM PERMIT ISSUED: 7/10/90

DATE(S) WORKED: 7/10/90

SQUAD #: 9 Helo

SQUAD SIZE: 5

NUMBER OF BAGS collected: 13

POUNDS OF OIL/OILED SEDIMENT REMOVED: 200

REPRESENTATIVES

EXXON: Fred Byars

USCG: Jim Davis

DEC: Julie Carlson

NPS: Howard Overton

USF&WS: Dick Wydoski

ADF&G: Jeff Barnhart

OTHER:

HOURS WORKED: 1.5

TOTAL MAN HOURS worked: 7.5

Work order ISSUED 6-27-90

TREATMENT TECHNIQUES: MANUAL REMOVAL X BIOREMEDIATION

OTHER

DEMOB DATE: 7/10/90

OIL SAMPLE(S) #: N/A

OIL TYPE: TB PT MS

SUBSTRATE TYPE: C-25% P-25% G-15% M-25% S-10%

OIL BANDS

D/S or V	L 4m	w 1m	m^2	% oil cover 15
D/S or V	L 1m	w .5	m^2	% oil cover 10
D / V	L	w	m^2	% oil cover
D / V	L	w	m^2	% oil cover
D / V	L	w	m^2	% oil cover

PHOTO LOG

Roll #	FRAME #	DESCRIPTION
N/A		

ACE 1852616+15/FF

PROBLEMS: This segment was surveyed by SSAT on 4-4-90 without representation of ADF&G Habitat Division.

OBSERVATIONS: Did not locate the 3m x 30m area as indicated on SSAT sketch map. Instead we located an area in the same location of 4m x 1m. A second area of 1m x 5m was also found. Sporadic MS, TB, PT were found along the length of this segment. Pom Pom boom and empty Exxon plastic cleanup bags from 1989 were also located and removed. Fifty-Five gallon drums of unknown origin remain in this segment, at the mouth of the lagoon.

SIGNED: Jeff Bernhardt

ACE 1852617-15

XG. Acton

SEGMENT ST/ KL-34-SL-15

SUBDIVISION KL-34-SL-15

DATE ____/____/90

CHECKLIST

- ___ N Arrow
- ___ Approx. Scale
- ___ Seg/Sub Bndy
- ___ Oil Dist.
  - Width
  - Length
  - % Cover
- ___ Substrate Character
- ___ ESI MNRA/WL
- ___ 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/D
Patchy Distribution

CT/S
Spotted Distribution

Oiled Vegetation

Photo location, direction, and number

ACE 1852618

SKETCH MAP

Approx Scale
1cm ≃ 100m

N↑

Shelikof Strait

comments From 7/10/90 cleanup are in pencil.

Segment Boundary

X pompom boom

Sporadic MS, PT, TB found along entire segment

Sturgeon Bay

site #2
1m x .5m 10% surface oil cover 1.5cm Thick

Plastic oil cleanup bags

No! Located an area 1m wide x Approx 4m Long 15% oil cover Surface oil 1.5cm Thick site #1

3m x 30m area MS/P and CT/S

MANUAL REMOVAL OF MOUSSE & DEBRIS

Shore Base

A

A'

20-3 7,9,10

20-3 #8

Segment Boundary

A-A' ≃

Driftwood Buried

mud/grass

SSL

Hull

3m Band of MS/P and CT/S in upper MT

angular pebbles and cobbles

Mud

7/10/90 GLB

7/10/90
Tues. ~~Start Twin Otter~~ Fred Byers called, Re. ~~Bird depositions~~ Helen Creek. Drive To Airport. called for. will go w.R Flight ~~Dr Douglas Crew for Monday~~ ~~Boarded Aircraft 9:00 AM~~ Out a off Excess Fuel. ~~10:10 Finally depart Kodiak. Land Douglas~~ River 11:13 Am ~~walked Beach. Some moose~~ ~~pellets remain along with scattered tar balls~~ ~~+ pellets. Refill drums.~~ ~~Depart 12:15 pm~~ ~~Land Big Bay, Straight Island For Fuel~~ ~~12:40 pm.~~ Depart 1:15 pm. Land Helen Creek ~~2:25 pm.~~ work Leaks guard Depart 3PM Land STurgeon Lagoon SL15 3:15 Helen Creek 57 Total bags = 1 bag Oiled Tyvek = 36 ~~- 8 off beach.~~ = ~~40 From Stream~~ SL15
STurgeon lagoon 10 bags oil + sediment 20 pound bags. + 3 bags of pom pom + plastic bags. Depart STurgeon lagoon 5 pm. Land Airport Kodiak 5:47 pm. Crew From Helen creek To STurgeon To Kodiak was. Fred Byers (Estrow) myself, Julie Carlson (DEC) Howard overstow (NPS) Jim Davis USCG ~~Fitness~~ Dick wydoski 35 EH Done 6:15 pm. Dick Hansel arrived Today No Lunch break.

Sturgeon Lagoon SHORELINE EVALUATION @ Exxon -

SEGMENT ST/ K06-34-SL-15 SUBDIVISION A (1 OF 1) DATE 4/4/90
Neal USF&WS or Mike Goodwin

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:
Salmon stream mouth no. ASC#256-40, #10010
Salmon stream outmigration (1A) - 3/1 to 5/15 and spawning (1B) - 7/10 to 8/31. No disturbance of stream bed or banks unless authorized by ADF&G. Contact ADF&G Habitat Division prior to treatment for permits. Sensitive estuary (8AA).

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

ARCHAEOLOGICAL CONSTRAINT: 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.)). Ron

SHPO SIGNATURE: Robert D. Mason DATE: 6/20/90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 25 m: No Oil 1276 m
Subsurface Oil Observed: Yes____ No X Maximum Depth_____

RECOMMENDATIONS:

_____No Treatment Recommended	_____Snare/Absorbent Booms
__X__Treatment Recommended	_____Oil Snares (pom poms)
__X__Manual Pickup	_____Absorbents (pads,rolls,etc)
_____Bioremediation	_____Spot Washing:_____Wands
_____Tarmat: _____Breakup	_____ Beach Cleaner
_____Removal	_____Other (see comments)

COMMENTS: Manual pick up of mousse and oil spill related debris. Work before 7/10.

TAG COMMENTS:

TAG APPROVAL DATE: 6/16/90
ADEC M. Hoover
EXXON Kurt Tem
NOAA Bud Wescott
USCG G.A. Reiter

FOSC: [signature] DATE: 6-27-90

ACE 1852620 +/S

need via FAX 7-5-90

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / K6-34-SL-15 SUBDIVISION: K6-34-SL-15A DATE 4/4/90

USCG
NAME D.D. Haven Jr. GM3, USCGR SIGNATURE D.D. Haven Jr.

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED
COMMENTS

This area is very lightly impacted according to OG. I was inspecting a separate area at the time. Normally, I would not recommend clean up for this degree of impact, but there is leftover clean up debri in nearby segments and while there are workers in the area, they may as well pick-up any removable oil/mousse.

ADEC
NAME Francine J. Benoit SIGNATURE Francine J. Benoit

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED
COMMENTS

Treatment for other segments in Sturgeon Lagoon is recommended. It'd be a good idea for the clean-up crew to attend to this area to manually collect any retrievable oil.

SSAT Field maps should accompany clean-up crews.

LAND MANAGER
NAME JOHN P. HARDISTER SIGNATURE John P. Hardister USFWS

~~☐ NO TREATMENT RECOMMENDED~~ ~~☐ TREATMENT SUGGESTED~~
COMMENTS

Impact by oil is light. Anecdotal cleanup by crews in adjacent areas is warranted.

John Merrick John Merrick Koniag, Inc.

Concur with above

REVISION NO. 05/31/90

ACE 1852621

SHORELINE OILING SUMMARY

REVISION NO. 03/2

OG Acton USCG Haven SEGMENT ST/ K 6-34-56-15
BIO Davis LAND REP USFWS Hardister SUBDIVISION K6-34-56-15A
EXXON Avery ADEC Bennis TIME 2:30 to 3:15
TEAM NO.: 20 TIDE LEVEL: +6 to +4.5 DATE 4/4/90
EST. SUBDIVISION LENGTH: 1330 m ☐ Sun ☐ Clouds ☐ Fog ☐ Rain ☒ Snow
UPLANDS DESCRIPTION: ☒ Grass ☐ Forest ☐ Rock
SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: S to N
SURFACE SEDIMENTS: R 0 % B 0 % C 25 % P 25 % G 15 % S 20 % M 25 % 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 30 m NO 1300

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR					IMPACTED ZONES			
ASPHALT PAVEMENT													
POOLED													
COVER													
COAT				✓		✓						✓	
STAIN													
MOUSSE			✓					✓				✓	
PATTIES													
TARBALLS													
FILM													
NO OIL										✓	✓		✓

PAVEMENT: H F S 0 sq. m by 0
PATTIES / TARBALLS 0 BAG
NEAR SHORE SHEEN? (NO) SR RW SL T

OILED DEBRIS	AMOUNT SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

DEBRIS COLLECTI
☐ YES ☒ NO
TYPE M/A
#BAGS 0

Photographs:
Roll No. 20-3
Frames 7-10

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (cm-cm)	BELOW		OIL / FILM COLOR					PIT ZONE				ANA	SUBSURFACE SEDIMENTS
1	40					✓	•									✓				mGP
2	40					✓	•										✓			mGP
3	30					✓	•									✓				mGP
4	30					✓	•										✓			mGP
5	30					✓	•									✓				mG
							•													

(<5% coverage)

COMMENTS 3m x 30m band of m/P and CT/S on and around surface cobbles/pebbles. No subsurface or other oil was observed. Walked entire segment

↓ Band in in upper mi

ACE 1852622

REVIEWED BAT DATE 7 Aug

XG Acton

EGMENT ST/ KL-34-2L-15

UBDIVISION KL-34-2L-15

ATE ___/___/90

CHECKLIST

- ___ N Arrow
- ___ Approx. Scale
- ___ Seg/Sub Bndry
- ___ Oil Dist.
- ___ Wid'th
- ___ Length
- ___ % Cover
- ___ Substrate Character
- ___ Est. HWL/LWL
- ___ SSL
- ___ Photo Location(s)
- ___ Prof.'s(s)
- ___ Pit Location(s)
- ___ Photo Location(s)

LEGEND

1 △

Pe - No Subsurface Oil

2 ▲

Pe - Subsurface Oil

CT/C

Continuous Distribution

CT/D

Broken Distribution

CT/D

Patchy Distribution

CT/S

Scattered Distribution

Oiled Vegetation

1 ⟶

Photo location, direction, and number

ACE 1852623

SKETCH MAP

Approx Scale
1cm ≃ 100m
N↑

Shelikof Strait

Segment Boundary

Sturgeon Bay

3m×30m area MS/P and CT/S

Storm Berm

MANUAL REMOVAL OF MOUSSE & DEBRIS

A

A'

20-5 7,9,10

20-> 8

Segment Boundary

A-A'≃

Driftwood Buried

mud/grass

SSL

Hwl

3m Band of MS/P and CT/S in upper MET2

angular pebbles and cobbles

Mwl

Lwl

SHORELINE ECOLOGICAL SUMMARY

REVISION: 02/

Segment ST / KOG-34 Subdivision SL-15A Date (mo / day / yr) 4-4-90

Time (24 hr) 14:30 Biologist H. Davis

(A) Substrate type and % of segments:
(1) Bedrock ____ (2) Boulder ____ (3) Cobble 25 (4) Pebble 50 (5) Sand 10 (6) Silt 25

(B) Overall % cover of biota (% of segment): Dense ____ Moderate 50% Low 50% (25%)

(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-20-3
Frames 7 – 12

BARNACLES

Dense			Moderate			Sparse			Rare			
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L	
2	2	2	2	X	2	2	X	2	2	2	2	
3	X	3	3	X	3	X	X	X	X	X	X	NOT PRESE
4	4	4	4	4	4	X	X	X	X	X	X	1, 5, 6
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	X	3	X	X	NOT PRESE
4	4	4	4	4	4	4	4	4	4	X	X	1, 5, 6
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			
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L	
2	2	2	2	2	2	2	X	2	2	2	2	
3	3	3	3	3	3	X	X	3	X	X	X	NOT PRESE
4	4	4	4	4	4	X	X	4	X	X	X	1, 5, 6
5	5	5	5	5	5	5	5	5	5	5	5	
6	6	6	6	6	6	6	6	6	6	6	6	

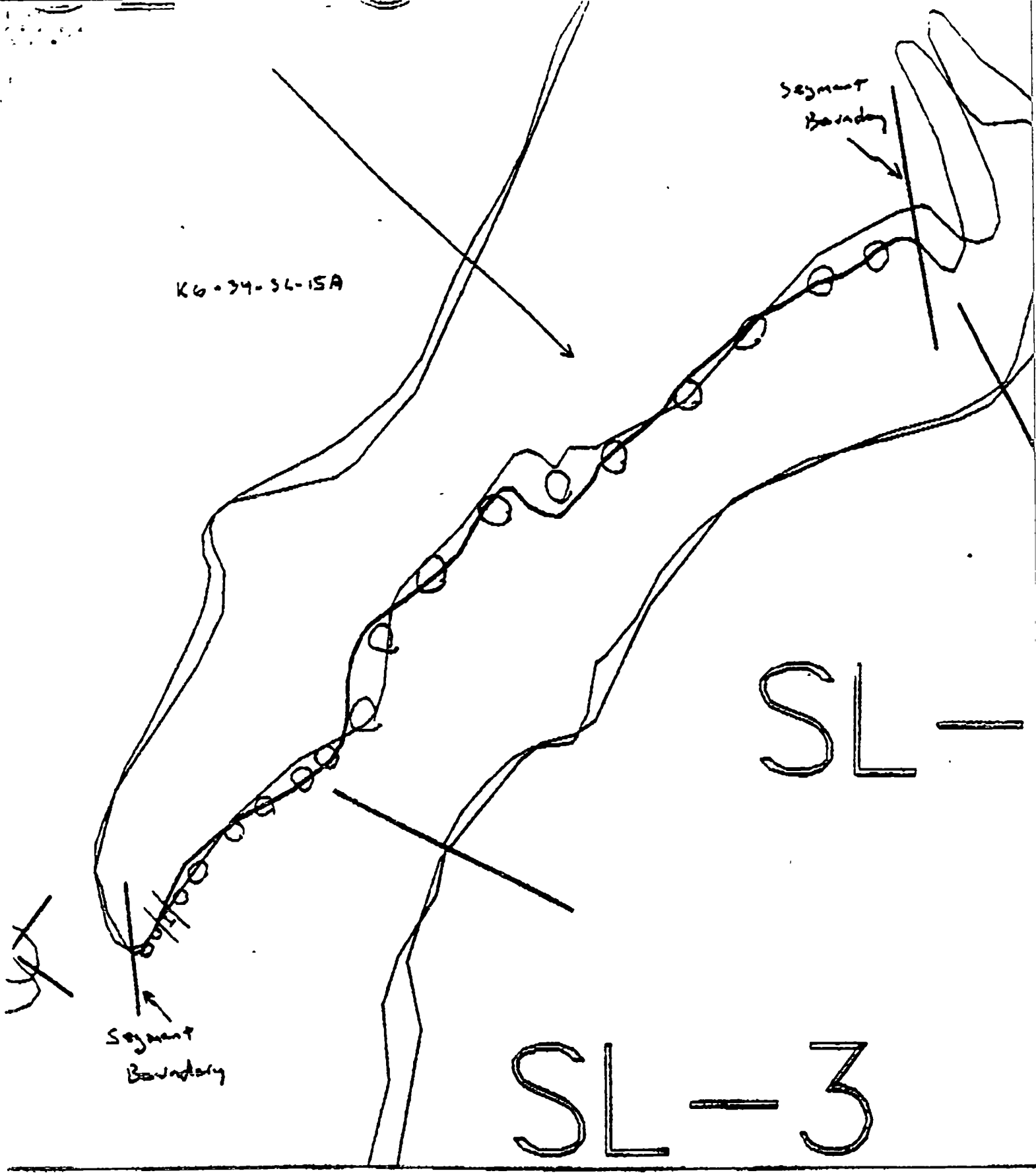
FUCUS

Dense			Moderate			Sparse			Rare			
1U	1M	1L	1U	1M	1L	1U	1M	1L	1U	1M	1L	
2	2	2	2	2	2	2	X	2	2	2	2	
3	3	3	3	3	3	3	X	X	3	X	X	NOT PRESE
4	4	4	4	4	4	4	X	X	4	X	X	1, 2, 5,
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: In the center of the channel zostera beds were visible. Mallards (5-6), Pintails (20-30) and glaucous winged gulls were feeding in the area. At the western end of section SL-15 the eelgrass population is sparse but continuous. As the number of cobbles and pebbles decreases to the east so does the number of eelgrass. Fucus appears sporadically in moderate to sparse patches. Crab crabs were spared. Eagles both adults and juveniles were observed in the area.

Ecological Considerations: (A,1,2,3 & AR) The estuary and river areas are food sources for many species of birds, mammals and fish. It is a spawning area for Pink, Chum, Coho, Steelhead and Rainbow.

ACE 1852624



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

SL-15

ADEC Segment Length: 1331m

0 100 200 300
METERS

KG-34-SL-15A
Map Key: GOA-188
Name: Acton
Date: 4-4-90
Date Entered:

ACE 1852625-15

STATE OF ALASKA

DEPARTMENT OF FISH AND GAME

STEVE COWPER, GOVERNOR

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

EXXON Valdez Oilspill Cleanup

Anadromous Fish Stream Authorization

Date 7/10/90

EXXON Authorized Representative Fred BYARS

Shoreline Segment K06-34-SL15

Anadromous Fish Stream Number(s) 256-40-10010

STurgeon River, Kodiak Island

Approved Cleanup Techniques Manual removal of all oil of any form within the stream channel and bottom substrate and on the stream banks. Minimize removal of stream bank substrate and surface components to that required for removing oiled materials. Manual pickup of cleanup debris.

Approved Cleanup Period 7/10/90

Alaska Department of Fish and Game

Jeffrey P Barnhart
Authorized Officer

Fred D. Byers
Permittee's Signature

ACE 1852626

Flew from Pasle PB16 Helen crook to Sturgeon SL15. Did not go to Chiniak

JPB

ACE 1852627-IS

EXXON FLIGHT PLAN

ER: N357EH DATE: 7-10-90

B/W TYPE AIRCRAFT: B212

OPLE ON BOARD (INCLUDING CREW): 8

ADQ ETD: 0800

HOW ALL WAYPOINTS): ADQ → PUALE BAY → k LAGOON) → (possible STURGEON) → ADQ

6. FINAL DESTINATION: ADQ ETA: 1900

7. FUEL ON BOARD: 2 HRS + 10 MINUTES

8. ANTICIPATED DELAYS (WAYPOINT/TIME): PUALE MOST OF DAY, IF TIME, will go to CHINIAK FIRST PRIORITY, STURGEON SECOND PRIORITY, return ADQ

9. COMPLETE MANIFEST AND ATTACH OR USE FORM BELOW: ✓ (check complete

10. DRAW ROUTE WITH DIRECTION ARROWS AND ATTACH: ✓ (check complete)

11. EXECUTE IDEMNIFICATION AGREEMENT IF REQUIRED (reference page F-4) AN ATTACH. REQUIRED? YES ____ NO ✓

12. FAX (266-6471) COMPLETE FLIGHT PLAN AND ATTACHMENTS TO TRANSPORTATIO FOLLOWING OR CALL (266-6582). IF DELAYED MORE THAN 30 MIN., AMEND ETD...

NAME	COMPANY	WEIGHT	BAG WT	DESTINATION
~~Fred Byars~~	~~Exxon~~	~~235~~	~~incl~~	
Jeff Barnhart	ADF&G	"	"	
Julie Carlsen	ADEC	"	"	
Dick Wydoski	USF&W	"	"	
Howard Overton	NPS	"	"	
Jim Davis	USCG	"	"	

ILOTS NAMES:
LARRY FULKERSON
KEN STRAIN

TOTALS	1410	
TOTAL PASS & BAGGAGE		1410

ACE 1852628-IS

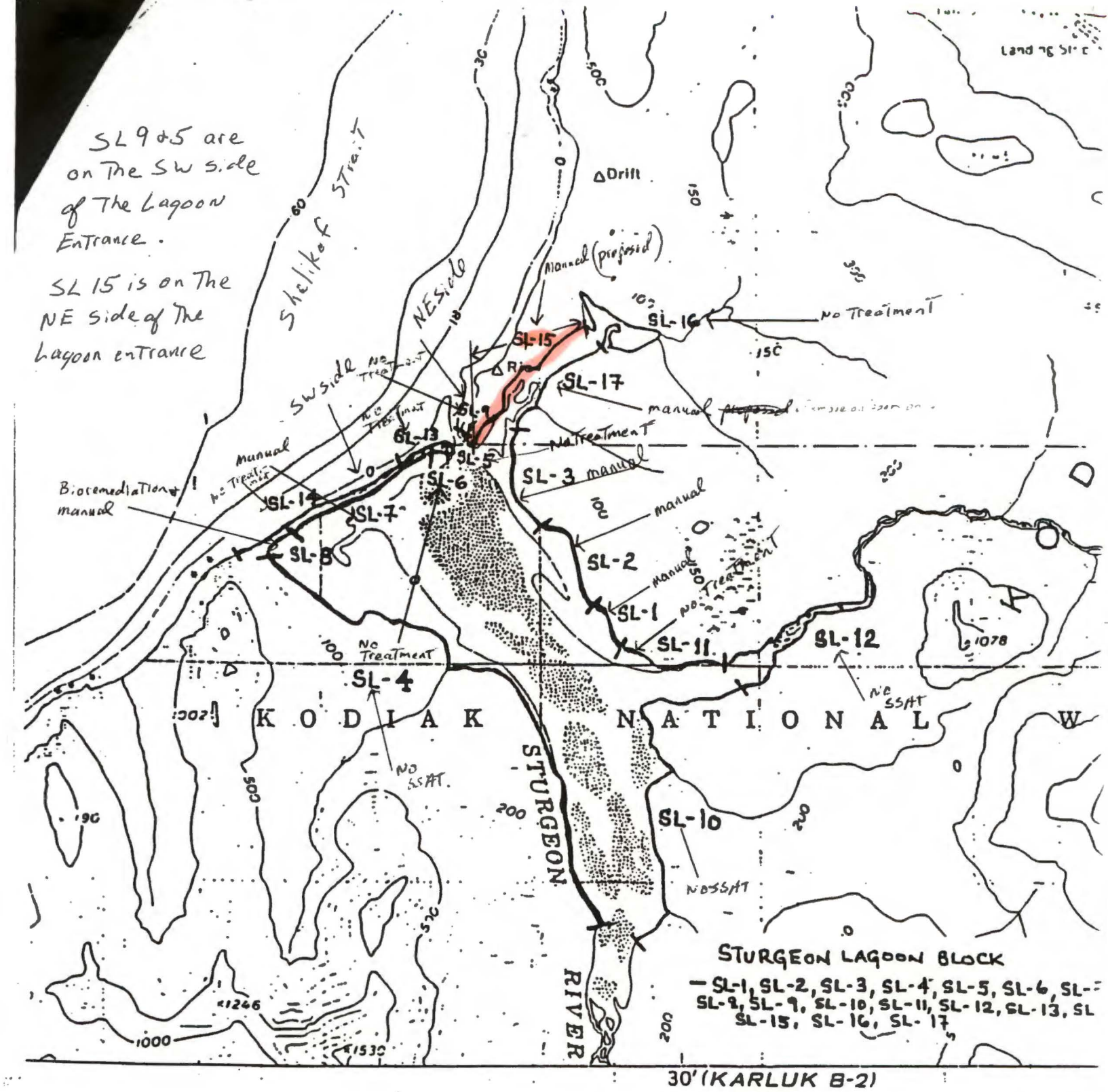
EXXON FLIGHT PLAN

1. AIRCRAFT TAIL NUMBER: N357EH DATE: 7-10-90
2. AIRCRAFT COLOR: R/B/W TYPE AIRCRAFT: B 212
3. TOTAL NUMBER OF PEOPLE ON BOARD (INCLUDING CREW): 8
4. DEPARTURE POINT: ADQ ETD: 0800
5. ROUTE OF FLIGHT (SHOW ALL WAYPOINTS): ADQ → PUALE BAY → (possible CHINIAK LAGOON) → (possible STURGEON) → ADQ
6. FINAL DESTINATION: ADQ ETA: 1900
7. FUEL ON BOARD: 2 HRS + 10 MINUTES
8. ANTICIPATED DELAYS (WAYPOINT/TIME): PUALE MOST OF DAY, IFTIME, will go to CHINIAK FIRST PRIORITY, STURGEON SECOND PRIORITY, return ADQ
9. COMPLETE MANIFEST AND ATTACH OR USE FORM BELOW: ✓ (check complete
10. DRAW ROUTE WITH DIRECTION ARROWS AND ATTACH: ✓ (check complete)
11. EXECUTE IDEMNIFICATION AGREEMENT IF REQUIRED (reference page F-4) AN ATTACH. REQUIRED? YES ____ NO ✓
12. FAX (266-6471) COMPLETE FLIGHT PLAN AND ATTACHMENTS TO TRANSPORTATIO FOLLOWING OR CALL (266-6582). IF DELAYED MORE THAN 30 MIN., AMEND ETD...

NAME	COMPANY	WEIGHT	BAG WT	DESTINATION
~~Fred Byars~~	~~Exxon~~	~~235~~	~~INCL~~	
Jeff Barnhart	ADF&G	"	"	
Julie Carlsen	ADEC	"	"	
Dick Wydoski	USF&W	"	"	
Howard Overton	NPS	"	"	
Jim Davis	USCG	"	"	
TOTALS		1410		
TOTAL PASS & BAGGAGE			1410	

ILOTS NAMES:
LARRY FULKERSON
ICN STRAIN

ACE 1852628-15



22°

MAGNETIC NORTH

SCALE 1:63360

3000 0 3000 6000 9000 12000 15000 18000

CONTOUR INTERVAL 100 FEET

DASHED LINES REPRESENT 50 FOOT CONTOURS

NATIONAL GEODETIC VERTICAL DATUM OF 1929

DEPTH CURVES IN FEET – DATUM IS MEAN LOWER LOW WATER

SHORELINE SHOWN REPRESENTS THE APPROXIMATE LINE OF MEAN HIGH WATER

THE AVERAGE RANGE OF TIDE IS APPROXIMATELY 11 FEET

ATE MEAN
ON. 1952

ACE 1852629

JUN 25 1990 19:54 FROM EXXON EXPLORATION ANCH

FROM: Fred BYARS
TO: VESSEL COMMAND NETWORK
FAX No: (907) 266-6490

OPERATIONS DAILY REPORT
SQUAD 9 – SEATRADER/HELICOPTER

DATE OF WORK: 7/10/90 WORK HOURS: START 0730 TO: 1830

WEATHER CONDITIONS: Wind Speed (Knts) _____ Wave Height(Ft) _____ GENERAL _____
TIDES: HIGH _____ Time _____ HIGH _____ Time _____
LOW _____ Time _____ LOW _____ Time _____
GENERAL LOCATION: Prudhoe Bay, Sturgeon Lagoon

SAFETY INCIDENTS	For Day
Fatality	
Lost Time	
Restricted	
Medical Treatment	
Total Recordable	

(Transmit Details Separately)

SCHEDULED WORK DAY HOURS (ex Break) =	Vessel 12	Helo 12
Working	~~12~~	9
Weather Downtime		
Transit Time	~~2~~	2
Mechanical Downtime		
Other:		

VESSEL REPRESENTATIVES NAMES
ADEC _____
Exxon _____
USCG _____
OOPS _____
Other _____

HELICOPTER REPRESENTATIVES NAMES
ADEC Julie Carl
Exxon Fred BYARS
USCG Jim Davis
Other Jeff Barnhart ADF&G
Dick Wydoski USFW
Howard Overton NPS

MANPOWER AND BILLETING STATUS (# of People)

Berthing Vessel	PAX * Beds	Exxon Reps	OOPS	Agency Reps	Other	Beach Wkrs Wkg	Beach Wkrs Idle	Open Beds
Sea Trader	16							

* COI Passenger Beds (Includes Service Personnel)

	Boat Crews
Berthing Vessels	
LCV/Production	
Work Boats	
TOTALS	

Helicopter # of Workers
5

Helicopter Tail #'s
~~587~~ 357EH
511 EH
Work Areas
K10-7 PB16
K6-34 SL15

VESSEL STATUS (# of Vessels)

Vessel Type	Total Asignd	In Transit	Total Working	Not Used	Mech Down	Weath Down
Berthing						
LCV/Production						
Work Boat						
TOTALS						

VESSELS ASSIGNED:

Vessel Name	Vessel Type	# People Berthed
Sea Trader	Berthing	

NEXT SQUAD MOVE: LOCATION K9-17 CC100 K9-17 CC001 DATE OF MOVE 7/11/90

DATE OF LAST CREW CHANGE _____ SCHEDULED DATE FOR NEXT CREW CHANGE _____
PORT FOR CREW CHANGE _____ PORT FOR CREW CHANGE _____

VISITORS (Name/Affiliation) _____

STATUS OF SUPPLIES/STORAGE CAPACITIES: _____

NUMBER OILED/DEAD BIRDS FOUND _____ # Alive NUMBER OILED/DEAD MAMMALS FOUND _____ # Alive _____
OTHER* _____

* Such as discovery of dead oiled birds/mammals, Archeological Artifacts, Wildlife incidents, etc.

ACE 1852630

EXXON FLIGHT PLAN – CHANGE # 1

1. AIRCRAFT TAIL NUMBER: 511EH DATE: 7/10/90
2. AIRCRAFT COLOR: R/W/B TYPE AIRCRAFT: B-212
3. TOTAL NUMBER OF PEOPLE ON BOARD (INCLUDING CREW): ~~8~~ 7
4. DEPARTURE POINT: ADQ ETD: 08:00
5. ROUTE OF FLIGHT (SHOW ALL WAYPOINTS): PUALE BAY → KUKAK → CHINIAK BAY → ADQ
6. FINAL DESTINATION: ADQ ETA: 18:00
7. FUEL ON BOARD: 02+ HRS + 15 MINUTES
8. ANTICIPATED DELAYS (WAYPOINT/TIME): ~~PUALE BAY (1/2 DAY)~~ CHINIAK BAY (1/2 DAY) KUKAK (30 MINS, REFUEL)
9. COMPLETE MANIFEST AND ATTACH OR USE FORM BELOW: ✓ (check complete
10. DRAW ROUTE WITH DIRECTION ARROWS AND ATTACH: ✓ (check complete)
11. EXECUTE IDEMNIFICATION AGREEMENT IF REQUIRED (reference page F-4) AN ATTACH. REQUIRED? YES ____ NO ✓
12. FAX (266-6471) COMPLETE FLIGHT PLAN AND ATTACHMENTS TO TRANSPORTATIO FOLLOWING OR CALL (266-6582). IF DELAYED MORE THAN 30 MIN., AMEND ETD...

NAME	COMPANY	WEIGHT	BAG WT	DESTINATION
~~TODD SKOGLUND~~	~~VECO~~	~~195~~	200	ADQ
~~CRAIG CALDWELL~~	~~"~~	~~200~~	"	"
ROBERT STEPHAN	"	195	"	"
JOHN ANDERSON	"	190	"	"
JAKE VERSTEEG	"	180	"	"
BILL PARKS	"	300	"	"
RON AREMAS	"	210	"	"
		~~1260~~ 1075	200	
TOTAL PASS & BAGGAGE			~~1460~~ 1275	

ILOTS NAMES:
J. ZANIS
T. RIDLEY

ACE 1852631

STATUS OF OPEN WORK AREAS

SQUAD 9 – HELICOPTER

DATE OF WORK: 7/10/90 WORK HOURS: START 0730 TO: 1930

MANUAL AND MECHANICAL OPERATIONS

Segment	Sub Div	Date Work Started	Date Demob Approved *	WORK STATUS: Manual Pickup	Tarmat Asphalt Removal	Spot Wash	Tilling /Raking	Bio	Anad Streams	Other Describe
K10-7PB16		7/10/90	7/10/90	100%						
K6-34SL15		7/10/90	7/10/90	100%						

DAILY QUANTITIES: # of Supers f Supersac Oiled Matl	# of Supers f Supersac Oiled Sediments	Square Meters Washed	Granular Bio Lin Mtrs Covered	Granular Bio Sq Mtr Covered	Granular Bio Lbs Used	Cords Wood Burned
	.50					
	.01					

SEGMENT	SUB DIV	DEMOB DATE	DEMOBILIZATION ACKNOWLEDGMENT: USCG	ADEC	EXXON
K10-7PB16		7/10/90			
K6-34SL15		7/10/90			

* The date that the Manual/Mechanical portion of the Work Order has been completed and acknowledged. A separate acknowledgement will be made for the Bioremediation portion of the Work Order.

** 1 Supersack = 45 CF, report in tenths of sack (ie. 0.1)

STATUS CODES

NA	Not Applicable/Recommended for this segment division
N	Recommended but not started
W	Started and Working
#%	Percentage complete (used on large work scopes)
C	Work complete

ACE 1852632

K-6-34

ASAP

SEGMENT AS / SL-15 SUBDIVISION: A SITE: 1 DATE 13 Aug 90

USCG

NAME J. Schultz SIGNATURE Jerry Schultz

☐ YES ☒ NO PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

ADEC

NAME F. Bennis SIGNATURE F. Bennis

☐ YES ☒ NO PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

No oil observed

LAND MANAGER

NAME J. Merrick SIGNATURE John Merrick

☐ YES ☒ NO PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

EXXON

NAME T. Tomblin SIGNATURE

☐ YES ☒ NO PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

NO OIL OBSERVED

REVISION NO. 7/26/90

ACE 1852633 +/S

ASAP SHORELINE OILING SUMMARY

PAGE 1 OF

TEAM NO. Kodiak #5 EXXON T Tomblin SEGMENT AS/ SL-15
OG O. FITZGERALD USCG J. Schultz SUBDIVISION A
ADEC F Bennis LAND REP John Merrick TOTAL NO. SITES 1
DATE 13 / Aug / 90 TIME 17:00 to 17:10 TIDE LEVEL 330 to 335 cm above MLLW
TOTAL EST LENGTH OF SHORELINE SURVEYED: 230 m
SURVEYED FROM: ☑ Foot ☐ Boat ☐ Helo WEATHER: ☑ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ S
OIL CATEGORY LENGTH: W ___ m M ___ m N ___ m VL ___ m NO 230 m US ___ m

SURFACE OIL

CHARACTER	SITE 1 DISTRIBUTION /C	/B	/P	/S	SITE 1 OILED ZONES SU	UI	MI	LI	SITE 2 DISTRIBUTION /C	/B	/P	/S	SITE 2 OILED ZONES SU	UI	MI	LI	SITE 3 DISTRIBUTION /C	/B	/P	/S	SITE 3 OILED ZONES SU	UI	MI	LI
ASPHALT																								
S.O.R.																								
POOLED																								
COVER																								
COAT																								
STAIN																								
MOUSSE																								
PATTIES/T.B.																								
FILM																								
NO OIL					X	X	X	X																
EST. SITE LENGTH					230																			

SUBSURFACE OIL

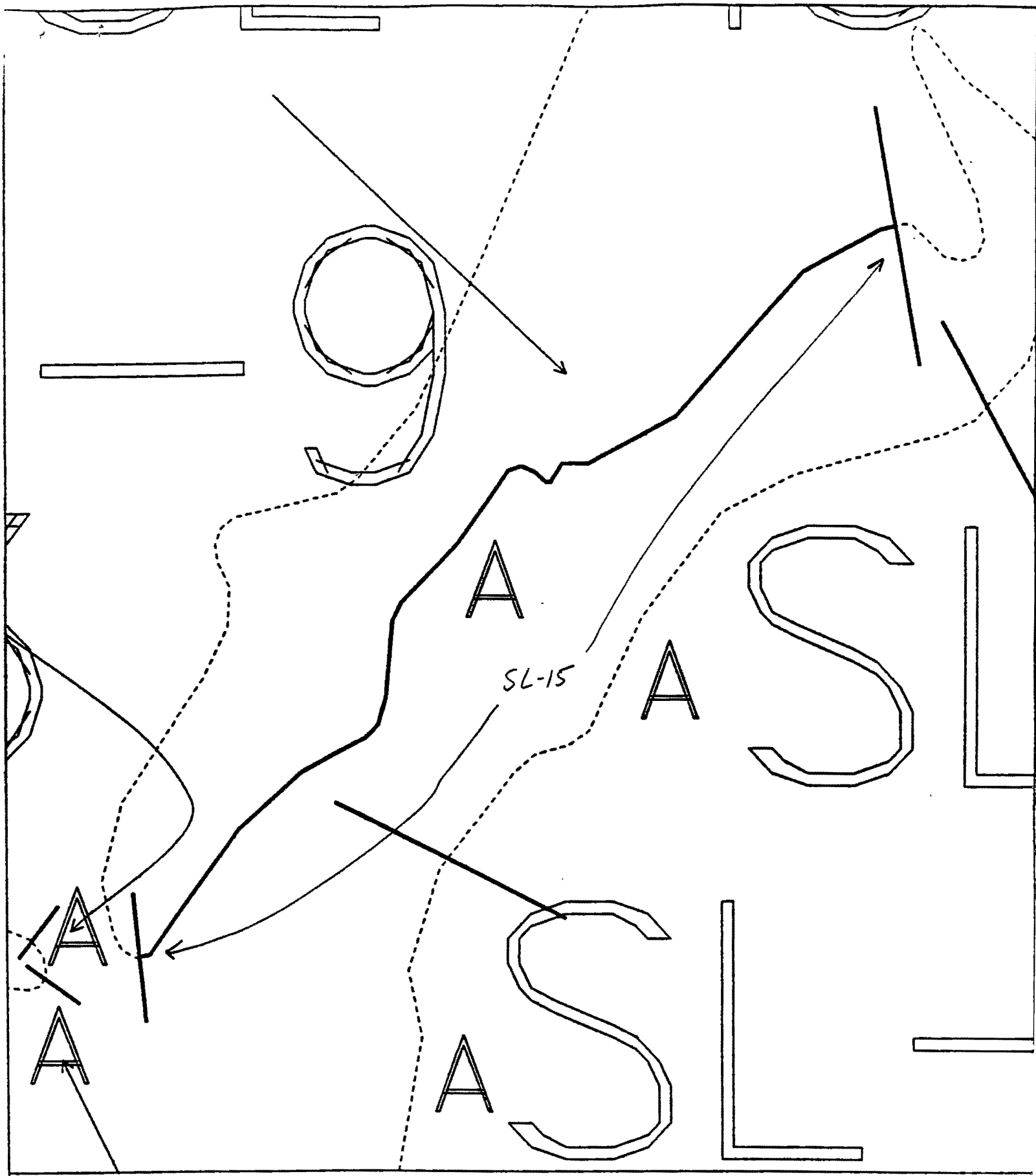
SITE NO.	PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER OP	OR	OF	NO	OILED INTERVAL (cm-cm)	CLEAN BELOW (Y/N)	PIT ZONE SU	UI	MI	LI	SURFACE-SUBSURFACE SEDIMENTS
							-						
							-						
							-						
							-						
							-						
							-						
							-						
							-						
							-						
							-						
							-						
							-						

Photographs:
Roll No. ASAP-06-05
Frames #15

COMMENTS No oil was found along the north side of the inlet behind the spit.

ACE 1852634

REVISION NO



SEGMENT K6-34 SL-15

Segment Location Map

Map Key: KODK6-34SL-15

EXXON

METERS

0 152 304

July 18, 1990

1:5981

ACE 1852635

Acton

SMENT ST/ KL-34-2L-15

DIVISION KL-34-2L-15

TE ___/___/90

ECKLIST

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)

GEND

1 △
No Subsurface Oil

2 ▲
Subsurface Oil

CT/C
nuous Distribution

CT/B
n Distribution

CT/P
y Distribution

CT/S
ed Distribution

Vegetation

location, direction, number

SKETCH MAP

Approx Scale
1cm ≃ 100m
N↑

Sheikof Strait

Segment Boundary

Surgeon Bay

3m x 30m area MS/P and CT/S

MANUAL REMOVAL OF MOUSSE & DEBRIS

A

A'

20-3 7,9,10

20-3 #8

SITE #1
No Oil

Segment Boundary

A-A' ≃

Driftwood Buried

mud/grass

SSL

HWL

3m Band of MS/P and CT/S in upper MITZ

angular pebbles and cobbles

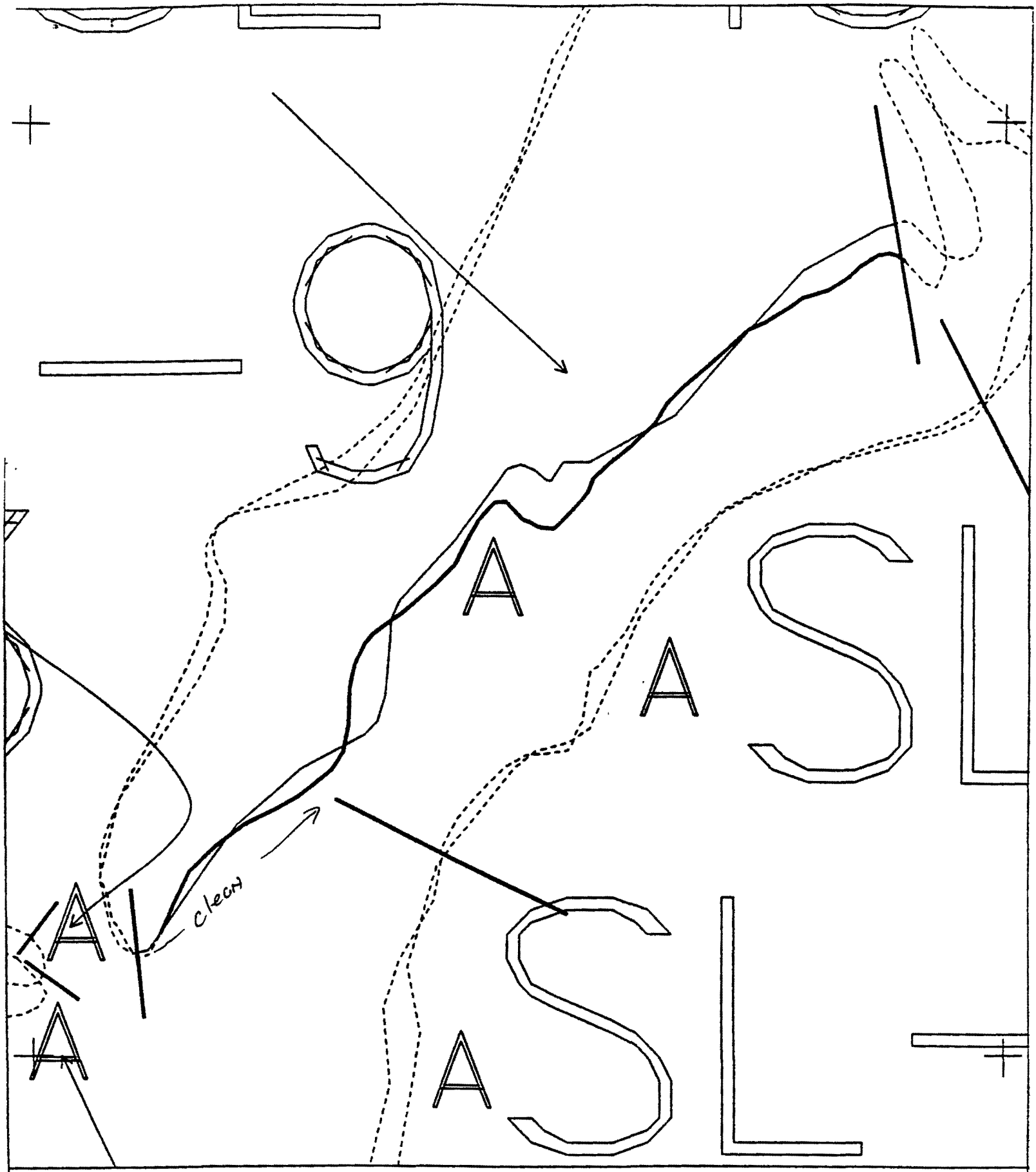
mud

LWL

ACE 1852636

aracter Length (m): AP 0 PO 0 CV 0 CT 30 ST 0 MS 30 PT 0 TB 0 FL 0 NO 1300

REVISION:03/24/98



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

K6-34 SL-15 A

ADEC Subsegment Length: 1300m

METERS

0 152 304

AK State Plane Zone 4 1:5981

EXXON

Subdivision Field Map

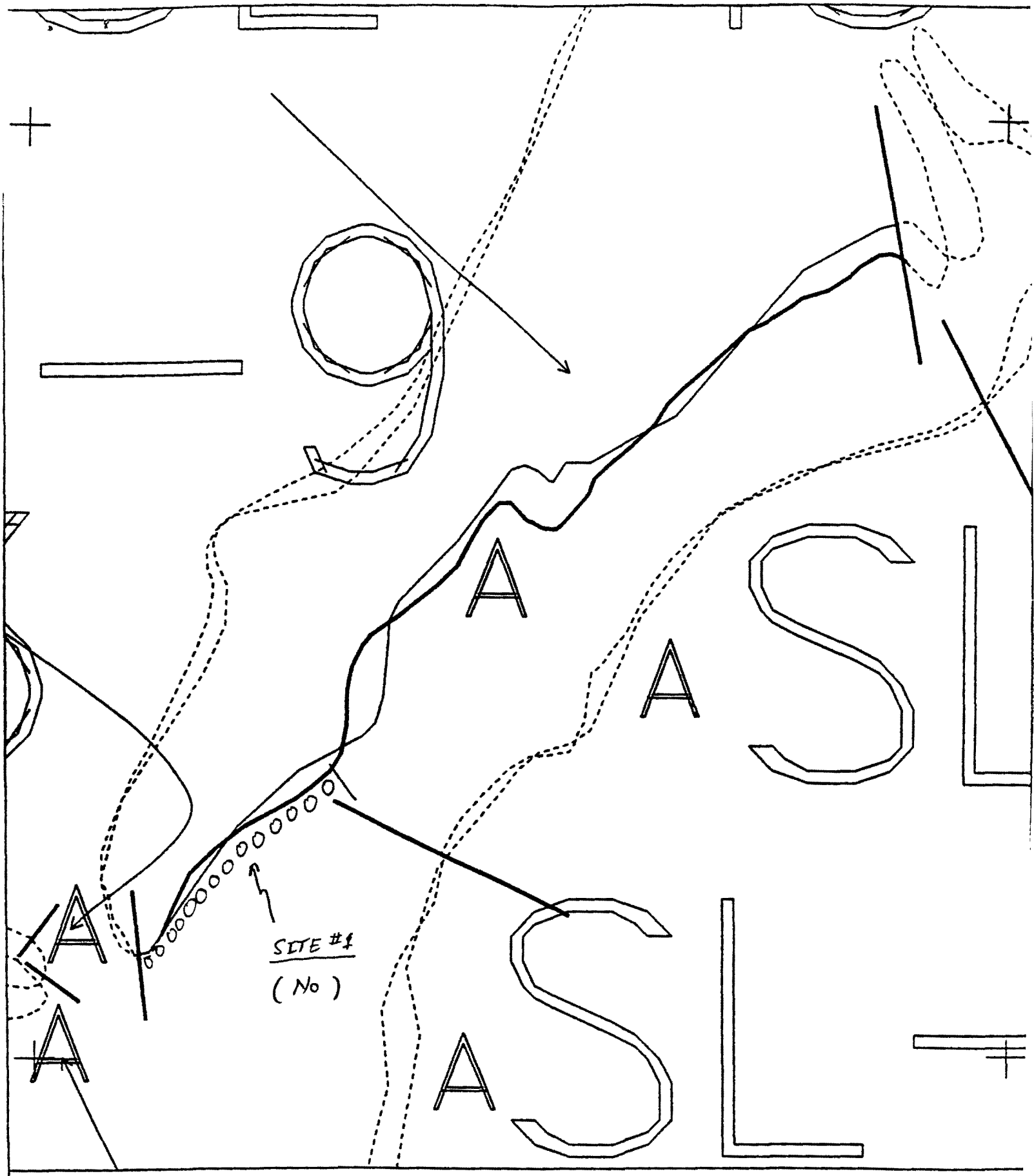
Map Key: KODK6-34SL-15A

Name: D. F. McGeeks/D

ACE 1852637

Date: 13 Aug 90

Data Entered:



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

K6-34 SL-15 A

ADEC Subsegment Length: 1300m

METERS

0 152 304

AK State Plane Zone 4 1:5981

EXXON

Subdivision Field Map

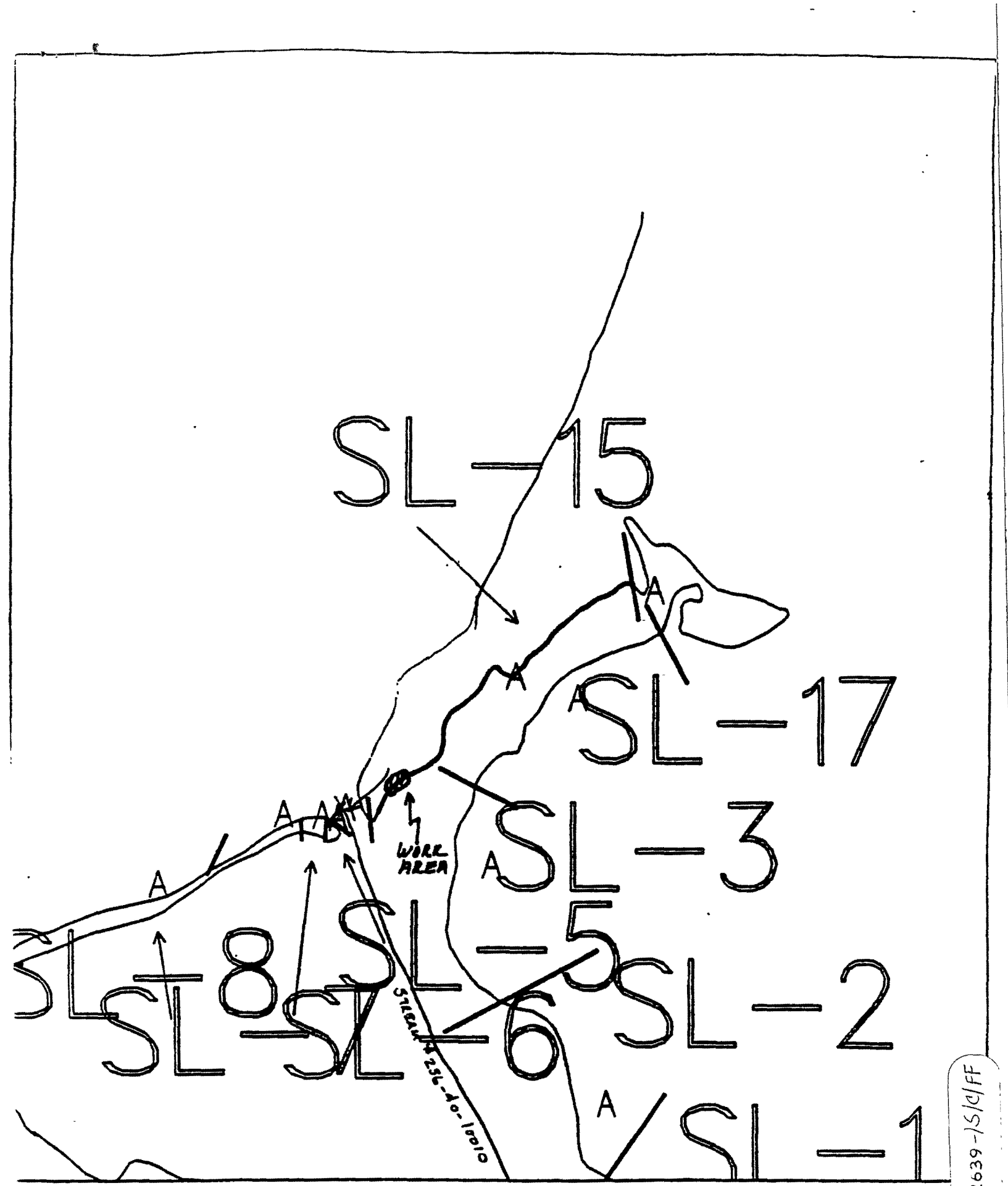
Map Key: KODK6-34SL-15A

Name: D Fitzgerald

Date: 13 Aug 90

Data Entered:

ACE 1852638



EXXON

Exxon Company, USA

ECOLOGY MAP

SEGMENT K6-34 SL-15

SUBDIVISION A (1 of 1)

★ Seabird Colony

▲ Active Eagle Nest

△ Inactive Eagle Nest

ACE 1852639-15/01/FF

K6-34 SL-08 AFS 256-40-10010 (5)
Sturgeon River 1990

ACE 1852593+/C

~~KA-2~~

Sturgeon Lagoon 5/17/90

~~[redacted]~~ Cleanup crews present From Shelia at Borough

3/15 16 [redacted] 19 20 21 22 23 26 27 28 29 30

4/2 3 4 5 6 9 10 11 12 13 16 17 18
19 20 23 24 25 30
26 27

5/1 2 3 4

1/100 pounds S.W. Lagoon possibly SL007 + SL008
I would not put much "weight" To this data.

ACE 18525944

'90 Cleanup

ASC NUMBER:
SEGMENT NUMBER: SL-08
YR CATALOGED:
LOCATION:
STREAM NAME: Sturgeon Lagoon
LATITUDE:
KODIAK K-UNIT:
LOCAL STREAM #:
LONGITUDE:
USGS QUADRANGLE:
LEGAL:
SHORELINE TYPE: Lagoon
WAVE EXPOSURE: Low

ASC NUMBER: 256-40-10010 (5)
SURVEY TYPE: CL
METHOD: F
DATE: 6/30/90
START TIME: 1315
STOP TIME: 1345

TEAM RECORDER: JEFF BARNHART
OBSERVERS: G. Harold, D. Reed, F. Byars, M. Goodwin
AGENCY(IES): ADF&G, USCG, ADEC, Exxon, DNR

PHOTOS TAKEN? N
Roll #: Frames:
VIDEO TAKEN? N Tape Number:
Counter Start:

SAMPLES TAKEN? N
SAMPLE I.D. NUMBERS: 1. 2. 3. 4. 5. 6.

OILING DATA

	LENGTH	WIDTH	M2	%	THICK	PEN	OIL TYPE
SITE 1	330m	2m	660	3	1mm	Ø	CT/ST
SITE 2							
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT: VL

OIL IN STREAM CHANNEL? Y

SUBSTRATE

Bedrock	Granule
Boulder	Sand
Cobble 85	Silt
Pebble 15	Veget.

OIL ON BEACH WITHIN 50M OF STREAM MOUTH? N/A.

SPECIES	N/A				
COUNT	N/A				

COMMENTS: This segment was surveyed by SSAT on 4-4-90 without representation on 6-30-90 by ADF&G Habitat Division. walked entire segment with resource agency representatives and Exxon. Oil coat/stain, patchy, sporadic can be found along the entire segment. The oil is black in color and highly weathered. Natural degradation appears to be occuring in the aerobic environment. Large pore spaces occur between the cobble/pebble substrate. An expansive bed of eel grass ajoins this segment. I recommend no additional cleanup and no bioremediation. Salmon carcasses and decaying vegetation collecting on the shoreline will provide nutrients necessary for continued degradation of the oil.

we dug four pits in areas that exhibited surface oiling conditions. No subsurface oil was located.

EVOS CLEANUP MONITORING, 1990.

REGION: Kodiak

K-UNIT: K6-34

SEGMENT: SL-08

LOCATION: Sturgeon lagoon

STREAM NAME: Sturgeon River

ANAD. STREAM CAT. #: 256-40-10010

ANAD. FISH STREAM PERMIT ISSUED: N/A

DATE(S) WORKED: survey 6/30/90

SQUAD #: N/A

SQUAD SIZE: N/A

NUMBER OF BAGS Collected: N/A

POUNDS OF OIL/OILED SEDIMENT REMOVED: N/A

TREATMENT TECHNIQUES: MANUAL REMOVAL BIOREMEDIATION

OTHER NONE

DEMOB DATE: 6/30/90

OIL SAMPLE #: N/A

OIL TYPE: CT/ST

SUBSTRATE TYPE: Cobble 85%

Pebble 15%

REPRESENTATIVES

EXXON: Fred Byars

USCG: Greg Harold

DEC: Randy (John) Reed

NPS: N/A

USF&WS: N/A

ADF&G: Jeff Barnhart

OTHER: DNR Mike Goodwin

HOURS WORKED: Ø

TOTAL MAN HOURS worked: Ø

Work Order Issued 4-22-90

OIL BANDS

L 330m	W 2m	D 1mm	m^2	% oil cover 3	Volume	
L	W	D	m^2	% oil cover	Volume	
L	W	D	m^2	% oil cover	Volume	
L	W	D	m^2	% oil cover	Volume	
L	W	D	m^2	% oil cover	Volume	

PHOTOLOG

Roll #	FRAME #	DESCRIPTION
N/A		

ACE 1852595+/S

PROBLEMS: This segment was surveyed by SSAT on 4-4-90 without representation by ADF&G Habitat Division.

OBSERVATIONS: walked entire segment with resource agency representatives and Exxon. Oil coat and stain, patchy, sporadic can be found along the entire segment. The oil is black in color and highly weathered. Natural degradation appears to be occuring in the aerobic environment. Large pore spaces occur between the cobble / pebble substrate. An expansive bed of eel grass ajoins this segment. I recommend no additional cleanup and no bioremediation. Salmon carcasses and decaying vegetation collecting on the shoreline will provide NUTRIENTS necessary for continued degradation of the oil.

We dug four pits in areas that exhibited surface oiling conditions. No subsurface oil was located.

SIGNED: Jeffrey J Bamhart

ACE 1852596-15

MEMORANDUM

State of Alaska

DEPARTMENT OF FISH & GAME

TO: File

DATE: May 17, 1990

FILE NO.:

TELEPHONE NO.: 486-5033

SUBJECT: Kodiak Island Local Response Program

FROM: Jeffrey P. Barnhart
Habitat Biologist
Region II
Habitat Division
Department of Fish and Game

On May 15, 1990 I called the Kodiak Island Borough (KIB) oil office, and spoke to Joanna Fujimoto. She was unable to answer any of my questions pertaining to the village response program activities in Sturgeon Lagoon. From what she indicated, the information the borough received from Karluk Village was too sketchy to be of much use. Joanna contacted Sheila (secretary) in the KIB oil office, who in turn called me. Sheila compiled the dates worked from the payment ledger book. The crew from Karluk Village supposedly worked in Sturgeon Lagoon on the following dates: March 15, 16, 19, 20, 21, 22, 23, 26, 27, 28, 29, 30, April: 2, 3, 4, 5, 6, 9, 10, 11, 12, 13, 16, 17, 18, 19, 20, 23, 24, 25, 26, 27, 30, May 1, 2, 3, 4.

Joanna also called Ron Lind, the Mayor of Karluk, who in turn called me on May 17, 1990. Mr. Lind provided me with the following information:

1) The average number of cleanup workers per visit was 4 -5.
2) Maximum number of cleanup workers per visit was 10.
3) 1,100 pounds of oil removed from the S.W. side of Lagoon. The S.W. side of the Lagoon is comprised of segments SL-007 and SL-008.

Alaska Department of Fish and Game, (ADF&G) Habitat Division was not notified of any work undertaken in Sturgeon Lagoon, anadromous stream 256-40-10010.

During the course of the KISCC review of The Local Response plan I indicated any work conducted in an anadromous stream would require notification of Habitat division, work authorization permits and possibly monitors.

ACE 1852597

WORK PLAN MODIFICATION RECOMMENDATION

SEGMENT K6-34-SL-008A SUBDIVISION A DATE 07-05-90

MODIFICATION

1. REASON FOR MODIFICATION:

Joint Field Survey by Land Manager Rep. Mike Goodwin, ADNR, (for John Merrick, Koniag, Inc.), ADEC, USCG and ADF&G representatives revealed the oil present in Subdivision (A) was naturally degrading at a rapid rate and was in a state that would be difficult to remove. It was determined the removal of oil present either by manual or by bioremediation technique would do more harm than good. This lagoon is an enviromentally sensitive area and represents an anadromous salmon spawning area. Total excavation of the beach gravels and cobbles would be required to treat this area.

2. SUGGESTED ADJUSTMENT TO WORK PLAN:

Demobilize this Subdivision (A), with no further treatment recommended.

File.

3. TIMING ISSUES:

USCG _____

ADEC Terry Ellsworth for John R. Reed

LAND MANAGER Richard J. Goodwin (for John Merrick, Koniag, Inc.) (If field representative is on site)

EXXON: _____

ADF&G: Jeffrey P Bernhardt

ACE 1852598

State of Alaska
Department of Fish and Game
Habitat Division

Field Inspection Report

Date 6/30/90 Time 1:30 pm

Location: (Logging unit/Road/Waterbody) KO-34 SL-08 STurgeon Lagoon
Kodiak Island AFS 256-40-10010

Operator/Contractor: Exxon (EVOS)

Individuals present at time of inspection:

Name	Representing
FRED BYARS	Exxon
Randy Reed	ADEC
Greg Harold	USCG
Mike Goodwin	DNR
Jeff Barnhart	ADF+G

Activity/Situation Observed: The oil observed in this segment appeared as a VL coat on cobble / gravel substrate. IT was black in appearance, not sticky. Natural degradation appears to be occuring in this aerobic environment. No pooled oil was located. An expansive bed of eel grass is located adjacent to this segment.

Pertinent Statutes/Regulations:

Recommended/Required Action (Specify): I recommend no manual treatment due to the very light amount and character of the oil. Additionally I recommend no bioremediation as subsurface oil was not observed.

By (date) _____ (if applicable)

Please note: This is not a final inspection report. It is intended to provide the operator/contractor with a notice of problems or concerns which require immediate attention. If necessary, a final inspection report will be issued at a subsequent date.

Jeffrey L Barnhart / Fishery Biologist
Fish and Game Representative/Title

Company Representative/Title

ACE 1852599

Form 11-88 (1-82)

State of Alaska
Department of Fish and Game
Habitat Division

Field Inspection Report

Date 6/30/90 Time 1:30 pm

Location: (Logging unit/Road/Waterbody) KL-34 SL-08 STurgeon Lagoon Kodiak Island. AFS 256-40-10010

Operator/Contractor: Exxon (EVOS)

Individuals present at time of inspection:

Name	Representing
FRED BYARS	Exxon
Randy Reed	ADEC
Greg Harold	USCG
Mike Goodwin	DNR
Jeff Barnhart	ADF+G

Activity/Situation Observed: The oil observed in this segment appeared as a VL coat on cobble/gravel substrate. It was black in appearance, not sticky. Natural degradation appears to be occuring in this aerobic environment. No pooled oil was located. An expansive bed of eel grass is located adjacent to this segment.

Pertinent Statutes/Regulations:

Recommended/Required Action (Specify): I recommend no manual treatment due to the very light amount and character of the oil. Additionally I recommend no bioremediation as subsurface oil was not observed.

By (date)_____ (if applicable)

Please note: This is not a final inspection report. It is intended to provide the operator/contractor with a notice of problems or concerns which require immediate attention. If necessary, a final inspection report will be issued at a subsequent date.

Jeffrey P Barnhart / Fishery Biologist
Fish and Game Representative/Title

_____
Company Representative/Title

Form 11-88 (1-82)

State of Alaska
Department of Fish and Game
Habitat Division

Field Inspection Report

Date 6/30/90 Time 1:30 pm

Location: (Logging unit/Road/Waterbody) KL-34 SL-08 STurgeon Lagoon Kodiak Island. AFS 256-40-10010

Operator/Contractor: Exxon (EVOS)

Individuals present at time of inspection:

Name	Representing
FRED BYARS	Exxon
Randy Reed	ADEC
Greg Harold	USCG
Mike Goodwin	DNR
Jeff Bernhart	ADF+G

Activity/Situation Observed: The oil observed in this segment appeared as a VL coat on cobble / gravel substrate. It was black in appearance, not sticky. Natural degredation appears to be occuring in this aerobic environment. No pooled oil was located. An expansive bed of eel grass is located adjacent to this segment.

Pertinent Statutes/Regulations:

Recommended/Required Action (Specify): I recommend no manual treatment due to the very light amount and character of the oil. Additionally I recommend no bioremediation as subsurface oil was not observed.

By (date)_____ (if applicable)

Please note: This is not a final inspection report. It is intended to provide the operator/contractor with a notice of problems or concerns which require immediate attention. If necessary, a final inspection report will be issued at a subsequent date.

Jeffrey P Barnhart / Fishery Biologist
Fish and Game Representative/Title

_____
Company Representative/Title

Form 11-88 (1-82)

State of Alaska
Department of Fish and Game
Habitat Division

Field Inspection Report

Date 6/30/90 Time 1:30 pm

Location: (Logging unit/Road/Waterbody) KG-34 SG-08 Sturgeon Lagoon Kodiak Island. AFS 356-40-10010

Operator/Contractor: Exxon (EVOS)

Individuals present at time of inspection:

Name	Representing
FRED BYARS	Exxon
Randy Reed	ADEC
Greg Harold	USCG
Mike Goodwin	DNR
Jeff Bernhart	ADF+G

Activity/Situation Observed: The oil observed in this segment appeared as a V4 coat on cobble / gravel substrate. It was black in appearance, not sticky. Natural degredation appears to be occuring in this aerobic environment. No pooled oil was located. An expansive bed of eel grass is located adjacent to this segment.

Pertinent Statutes/Regulations:

Recommended/Required Action (Specify): I recommend no manual treatment due to the very light amount and character of the oil. Additionally I recommend no bioremediation as subsurface oil was not observed.

By (date) _____ (if applicable)

Please note: This is not a final inspection report. It is intended to provide the operator/contractor with a notice of problems or concerns which require immediate attention. If necessary, a final inspection report will be issued at a subsequent date.

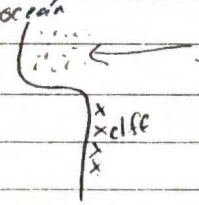
Jeffrey J Bernhart / Fishery Biologist
Fish and Game Representative/Title

Company Representative/Title

Form 11-88 (1-82)

6/30/90 gpb 266-6503

Saturday - 6:45 to ICP.
Archie → 0900 Sea Trader will be at Red Fox for cleanup. Called Doc Ac ops set up flight For 8:00am Departure Tomorrow To Red Fox To monitor cleanup.
USFWS just Told me There is oil in Alitnchak Bay at a salmon stream mouth / Tidal Flat AS 7/8. mid Tide Check out possibly AS 4, 5, 6, 7 or 8. AS 2 by stream mouth is also scheduled



Survey This with Dave Kirkby.

work on Time Sheet / Activity. Coordinating with USFWS & Exxon Eagle specialists on The Eagle nest at ST 14, Big Fort Creek.

Depart Kodiak Airport 12:25pm. Arrive Sturgeon 1:15pm walked SL 8 + SL 7. The substrate is cobble / gravel. Oil is coat / stain on cobble. Black oiled o.c. Natural degradation is occurring at a steady pace. Due To The nature of The substrate oxygen can reach The oil. There is an expansive Eel grass bed agolong The cobble beach. I suggest no additional cleanup + no bioremediation. Salmon Creek will provide The nutrients in This low energy environment necessary for biodegradation.
walked SL 1 SL 2 SL 3
SL 3 - oiled boom (pom pom's) & cleanup debris 1 Tarball
SL 2 - oiled pom pom's + cleanup debris. 2 Tarballs
Depart 1610 See Final summary next page as To what we removed.
Stopwork 6:00pm
Found 4 or 5 Tar balls up To 6" diam. at end of segment # 2 Excluding all 20 bags empty, from last year.
Depart upriver 6:07 pm. 50 gal. We were supposed To stop & pick up The oiled boom in SL 17 with This helicopter. They (pilots) departed Lagoon w/out Stopping. They shut The communications off To my head set. (but NOT before they started Talking about Bill.) Also After we Loaded The bags of debris into The helicopter The pilot said we could NOT carry them because They blocked The door. Told Bill (Foreman) we could put Them in Tail boom but There is no space in There either. we had six bags, we only brought 5 and back in with us. Bill and crew with exception of Todd (he was with us) were left remaining on on The beach w/out a helicopter as 5 11 went To Kodiak To

ACE 1852600

ACE 1852601

(7)

State of Alaska
Department of Fish and Game
Habitat Division

Field Inspection Report

Date 6/30/90 Time 1:30 pm

Location: (Logging unit/Road/Waterbody) K6-34 SL-08 STurgeon Lagoon Kodiak Island

Operator/Contractor: Exxon (EVOS)

Individuals present at time of inspection:

Name	Representing
FRED BYARS	Exxon
Randy Reed	ADEC
Greg Harold	USCG
Mike Goodwin	DNR
Jeff Barnhart	ADF+G

Activity/Situation Observed: The oil observed in this segment appeared as a VL coat on cobble / gravel substrate. IT was black in appearance, NOT sticky. Natural degredation appears to be occuring in this aerobic environment. No pooled oil was located. An expansive bed of eel grass is located adjacent to this segment.

Pertinent Statutes/Regulations:

Recommended/Required Action (Specify): I recommend no manual treatment due to the very light amount and character of the oil. Additionally I recommend no bioremediation as subsurface oil was NOT observed.

By (date)_____ (if applicable)

Please note: This is not a final inspection report. It is intended to provide the operator/contractor with a notice of problems or concerns which require immediate attention. If necessary, a final inspection report will be issued at a subsequent date.

Jeffrey P Barnhart / Fishery Biologist
Fish and Game Representative/Title

Company Representative/Title

Form 11-88 (1-82)

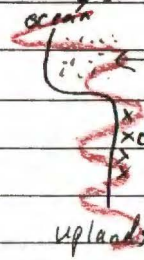
ACE 1852602

6/30/90 266-6503

Saturday - 6:45 To ICP.

~~Arctic 7 0900 sea Hadic will be at Red Fox for cleanup. Called Dec Air ops. Set up flight for 8 am departure Tomorrow to Red Fox To monitor cleanup.~~

~~USFWS just told me there is oil in Aldrichek Bay at a salmon stream mouth / Tidal Flat AS 7/8. Will Dc Helicopter possibly AS 5, 6, 7 or 8 AS 2 by stream mouth is also scheduled~~



~~Survey this with Dave Kubby.~~

~~work on Time / Sheet / Activity. Coordinating with USFWS & Exxon Eagle specialists on The Eagle nest at ST 14, Big Fort Creek.~~

Depart Kodiak Airport 12:25pm Arrive Sturgeon 1:15pm walked SL 8 + SL 7. The substrate is cobble/gravel. 0:1 is coat / stain on cobble. Black dried oil. Natural degradation is occurring at a steady pace. Due To The nature of The substrate

---qoini Lagoon

oxygen can reach The oil. There is an expansive Eel grass bed adjoining The cobble beach. I suggest no additional Cleanup & no bioremediation. Salmon Carcasses will provide The nutrients in This Low energy environment necessary for biodegradation.

walked SL 1 SL 2 SL 3

SL 3 - oiled boom (pom pom's) + cleanup debris 1 Tarball

SL 4 - oiled pom pom's + cleanup debris + Tarballs

Start back to camp

Found 4 or 5 Ja balls up To 6" diam. at end of segment # 2 by cabin. Also 8 bags empty from Sadgasa.

Depart aprox 6:07 pm. 50 GEH. We were supposed To stop & pick up The oiled boom in SL 11 via This helicopter. They (pilots) departed Lagoon w/out Stopping. They shut The Transmission off To my head set. but NOT before they started Talking about Bill Also After we loaded The bags of debris into The helicopter The pilot said we could not carry them because They blocked The door. Told Bill (Foreman) we could put Them in Tail boom but There is no space in There either. We had six bags, we only brought 4 back in with us. Bill and crew with exception of Todd (he was with us) were left remaining on The beach w/out a helicopter as SH went To Kodiak To

ACE 1852603

ACE 1852604

STATE OF ALASKA

DEPARTMENT OF FISH AND GAME

STEVE COWPER, GOVERNOR

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

EXXON Valdez Oilspill Cleanup

Anadromous Fish Stream Authorization

Date 6/30/90

EXXON Authorized Representative _____

Shoreline Segment K06-34-SL08

Anadromous Fish Stream Number(s) 256-40-10010

Sturgeon River, Kodiak Island

Approved Cleanup Techniques No Anadromous Fish Stream Authorization issued. Recommend no manual and no bioremediation Treatment of this segment.

Approved Cleanup Period _____

Alaska Department of Fish and Game

Jeffrey P. Barnhart
Authorized Officer

Permittee's Signature

ACE 1852605

FROM: Fred BYARS
TO: VESSEL COMMAND NETWORK
FAX No: (907) 266-6490

OPERATIONS DAILY REPORT
SQUAD 9 - SEATRADER/HELICOPTER

DATE OF WORK: 6/30/90 WORK HOURS: START 0830 TO: 2000

WEATHER CONDITIONS: Wind Speed (Knts) _____ Wave Height(Ft) _____ GENERAL _____
TIDES: HIGH _____ Time _____ HIGH _____ Time _____
LOW _____ Time _____ LOW _____ Time _____
GENERAL LOCATION: _____

SAFETY INCIDENTS	For Day
Fatality	
Lost Time	
Restricted	
Medical Treatment	
Total Recordable	

(Transmit Details Separately)

SCHEDULED WORK DAY HOURS (ex Break) =	Vessel 12	Helo 12
Working		
Weather Downtime		4
Transit Time		2
Mechanical Downtime		2
Other:		

VESSEL REPRESENTATIVES NAMES
ADEC _____
Exxon _____
USCG _____
OOPS _____
Other _____

HELICOPTER REPRESENTATIVES NAMES
ADEC Randy Reed
Exxon Fred BYARS
USCG Craig Harold
Other Mike Goodwin ADN
Jeff Barnhart ADF&

MANPOWER AND BILLETING STATUS (# of People)

Berthing Vessel	PAX * Beds	Exxon Reps	OOPS	Agency Reps	Other	Beach Wkrs Wkg	Beach Wkrs Idle	Open Beds
Sea Trader	16							

Helicopter # of Workers
6

* COI Passenger Beds (Includes Service Personnel)

	Boat Crews
Berthing Vessels	
LCV/Production	
Work Boats	
TOTALS	

Helicopter Tail #'s
509 EH
511 EH
Work Areas
K6-34 SL 1,2
3,8,17

VESSEL STATUS (# of Vessels)

Vessel Type	Total Asignd	In Transit	Total Working	Not Used	Mech Down	Weath Down
Berthing						
LCV/Production						
Work Boat						
TOTALS						

VESSELS ASSIGNED:

Vessel Name	Vessel Type	# People Berthed
Sea Trader	Berthing	

NEXT SQUAD MOVE: LOCATION K0112 55009 DATE OF MOVE 7/1/90

DATE OF LAST CREW CHANGE _____ SCHEDULED DATE FOR NEXT CREW CHANGE _____
PORT FOR CREW CHANGE _____ PORT FOR CREW CHANGE _____

VISITORS (Name/Affiliation) _____

STATUS OF SUPPLIES/STORAGE CAPACITIES: _____

NUMBER OILED/DEAD BIRDS FOUND _____ # Alive NUMBER OILED/DEAD MAMMALS FOUND _____ # Alive _____
OTHER* _____

* Such as discovery of dead oiled birds/mammals, Archeological Artifacts, Wildlife incidents, etc.

EXXON FLIGHT PLAN

1. AIRCRAFT TAIL NUMBER: 509EH DATE: 6-30-90
2. AIRCRAFT COLOR: RED WHT BLACK TYPE AIRCRAFT: B-212
3. TOTAL NUMBER OF PEOPLE ON BOARD (INCLUDING CREW): _____
4. DEPARTURE POINT: ADQ ETD: 0900
5. ROUTE OF FLIGHT (SHOW ALL WAYPOINTS): KODIAK, STURGEON BAY, KODIAK
6. FINAL DESTINATION: KODIAK ETA: 1900
7. FUEL ON BOARD: 2+ HRS + 40 MINUTES
8. ANTICIPATED DELAYS (WAYPOINT/TIME): STURGEON BAY 8+00
9. COMPLETE MANIFEST AND ATTACH OR USE FORM BELOW: √ (check complete
10. DRAW ROUTE WITH DIRECTION ARROWS AND ATTACH: √ (check complete)
11. EXECUTE IDEMNIFICATION AGREEMENT IF REQUIRED (reference page F-4) AN ATTACH. REQUIRED? YES _____ NO √
12. FAX (266-6471) COMPLETE FLIGHT PLAN AND ATTACHMENTS TO TRANSPORTATIO FOLLOWING OR CALL (266-6582). IF DELAYED MORE THAN 30 MIN., AMEND ETD...

NAME	COMPANY	WEIGHT	BAG WT	DESTINATIO
FRED BYARS	EXXON	235		KODIAK
RANDY REED	ADFG	↓		↓
JEFF BINGHAM	ADFG			
GREG HAROLD	USCG			
MIKE GOODWIN	DNR			

ILOTS NAMES:
FALCONSON, CANNY

TOTALS	1410	
TOTAL PASS & BAGGAGE		1410

ACE 1852607

STATUS OF OPEN WORK AREAS

SQUAD 9 – HELICOPTER

DATE OF WORK: 6/30/90 WORK HOURS: START 0830 TO: 2000

MANUAL AND MECHANICAL OPERATIONS

Segment	Sub Div	Date Work Started	Date Demob Approved *	WORK STATUS: Manual Pickup	Tarmat Asphalt Removal	Spot Wash	Tilling /Raking	Bio	Anad Streams	Other Describe
K6-34SL1	A	6/30/90	6/30/90	100%						
K6-34SL2	A	6/30/90	6/30/90	100%						
K6-34SL3	A	6/30/90	6/30/90	100%						
K6-34SL8	N	6/30/90	6/30/90	—						
K6-34SL17	A	6/30/90	6/30/90	—						

DAILY QUANTITIES: # of Supers f Supersac Oiled Matl	Oiled Sediments	Square Meters Washed	Granular Bio Lin Mtrs Covered	Sq Mtr Covered	Lbs Used	Cords Wood Burned
.12	.					
.08						
.05						
0						
0						

SEGMENT	SUB DIV	DEMOB DATE	DEMOBILIZATION ACKNOWLEDGMENT * USCG	ADEC	EXXON
K6-34SL1	A	6/30/90		John R. Rod	Fred Byers
K6-34SL2	A	6/30/90		John R. Rod	Fred Byers
K6-34SL3	A	6/30/90		John R. Rod	Fred Byers
K6-34SL8	A	6/30/90		John R. Rod	Fred Byers
K6-34SL17	A	6/30/90		John R. Rod	Fred Byers

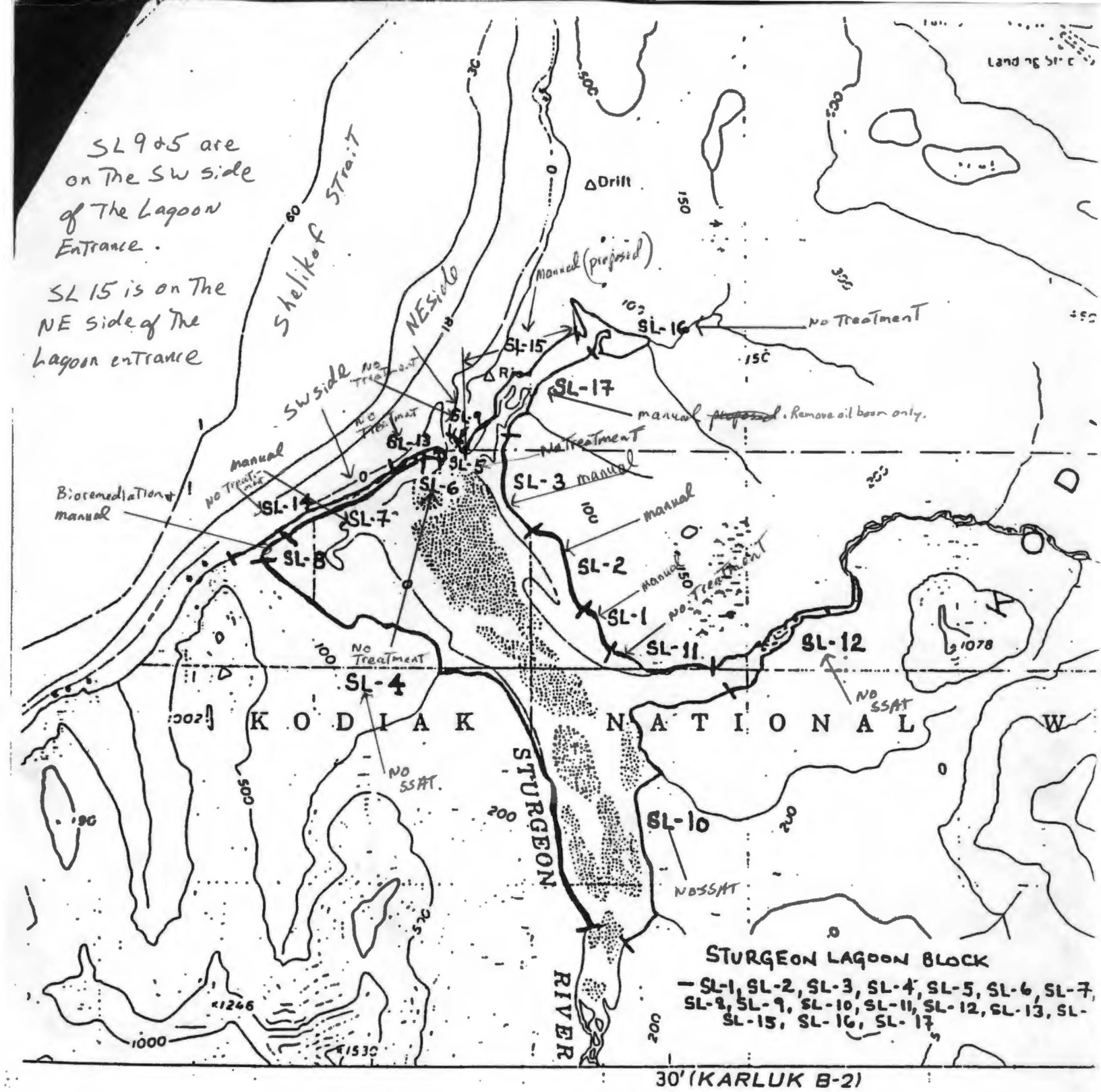
* The date that the Manual/Mechanical portion of the Work Order has been completed and acknowledged. A separate acknowledgement will be made for the Bioremediation portion of the Work Order.

** 1 Supersack = 45 CF, report in tenths of sack (ie. 0.1)

STATUS CODES

- NA Not Applicable/Recommended for this segment division
- N Recommended but not started
- W Started and Working
- #% Percentage complete (used on large work scopes)
- C Work complete

ACE 1852608



22°

MAGNETIC NORTH

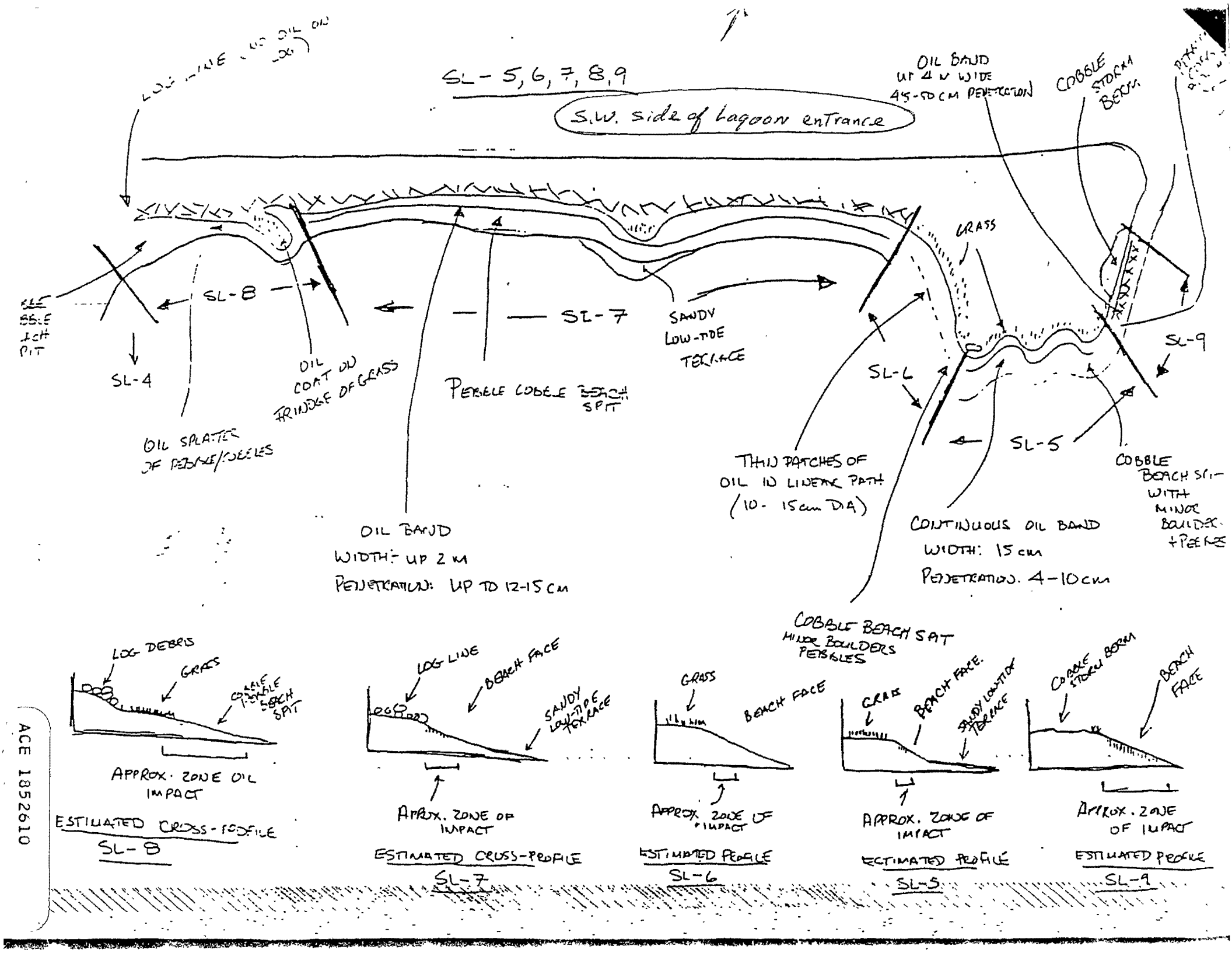
ATE MEAN
ON. 1952

SCALE 1:63360

3000 0 3000 6000 9000 12000 15000 18000

CONTOUR INTERVAL 100 FEET
DASHED LINES REPRESENT 50 FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929
DEPTH CURVES IN FEET – DATUM IS MEAN LOWER LOW WATER
SHORELINE SHOWN REPRESENTS THE APPROXIMATE LINE OF MEAN HIGH WATER
THE AVERAGE RANGE OF TIDE IS APPROXIMATELY 11 FEET

ACE 1852609


SL-5,6,7,8,9
S.W. side of Lagoon entrance
OIL BAND UP 4 M WIDE 45-50 CM PENETRATION
COBBLE STORM BERM
GRASS
SL-8
SL-7
SL-4
SL-6
SL-5
SL-9
SANDY LOW-TIDE TERRACE
OIL COAT ON FRINGE OF GRASS
PEBBLE COBBLE BEACH SPIT
OIL SPLATTER OF PEBBLES/COBBLES
THIN PATCHES OF OIL IN LINEAR PATH (10-15cm DIA)
OIL BAND WIDTH: UP 2 M PENETRATION: UP TO 12-15 CM
CONTINUOUS OIL BAND WIDTH: 15 cm PENETRATION. 4-10cm
COBBLE BEACH SAT WITH MINOR BOULDERS + PEBBLES
COBBLE BEACH SAT MINOR BOULDERS PEBBLES
LOG DEBRIS
GRASS
COBBLE PEBBLE BEACH SPIT
APPROX. ZONE OIL IMPACT
ESTIMATED CROSS-PROFILE
SL-8
LOG LINE
BEACH FACE
SANDY LOW-TIDE TERRACE
APPROX. ZONE OF IMPACT
ESTIMATED CROSS-PROFILE
SL-7
GRASS
BEACH FACE
APPROX. ZONE OF IMPACT
ESTIMATED PROFILE
SL-6
GRASS
BEACH FACE
SANDY LOW TIDE TERRACE
APPROX. ZONE OF IMPACT
ESTIMATED PROFILE
SL-5
COBBLE STORM BERM
BEACH FACE
APPROX. ZONE OF IMPACT
ESTIMATED PROFILE
SL-9

ACE 1852610

Field copy

Sturgeon Lagoon.

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 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: April 14, 1990 CEH 4/25/90

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)

25/90.

COMMENTS: Bioremediate subsurface oil.

TAG COMMENTS:

TAG APPROVAL DATE: 4/14/90.
ADEC JOHN BAUER
EXXON ANDY TEAL
NOAA Burt Wescott
USCG G.A. Reiter G.A. REITER

FOSC: _____ DATE: 4-22-90 (TAKES)
Include limited pickup of mousse

ACE 1852611 4/5

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / K06341SL008 SUBDIVISION: A DATE 4-4-90

~~NOAA~~
~~USCG~~
NAME John Naughton SIGNATURE John D. Naughton

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED

COMMENTS

Suggest clean up (manual removal) of only pooled material which is "melting" subsurface in cobbles. Stained and coated cobbles should not be treated – only way to clean these would be to physically remove the cobbles, which I recommend against.

ADEC
NAME Scott Shelton SIGNATURE

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED

COMMENTS K0634/SL008 Sturgeon River lagoon
Oil can be observed along the entire Segment. With surface coats found on Segment borders. 330 meters length of K0634/SL008. Mousse, occasional along segment between cobble and gravel sediment. 6 pits dug to 30cms - pits 4 & 5 observed oil in subsurface sediment. Weathered oil down to 10cm on cobble. Tools on surface can be Manual clean type. Subsurface oil may need Geo-tech by Washing. Treatment Low Energy Area.

LAND MANAGER
NAME John Merrick SIGNATURE John Merrick Konias Inc

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED

COMMENTS

Limited manual removal of thickest suggested.

REVISION NO. 03/21/90

ACE 1852612

SEGMENT ST/ K0634 / SL004

SUBDIVISION A

DATE 4 / 4 90

SKETCH MAP

CHECKLIST

- N Arrow
- Approx. Scale
- Seg/Sub Bndry
- Oil Dist.
  - Width
  - Length
  - % Cover
- Substrate Character
- Est. HWL/LWL
- BSL
- 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

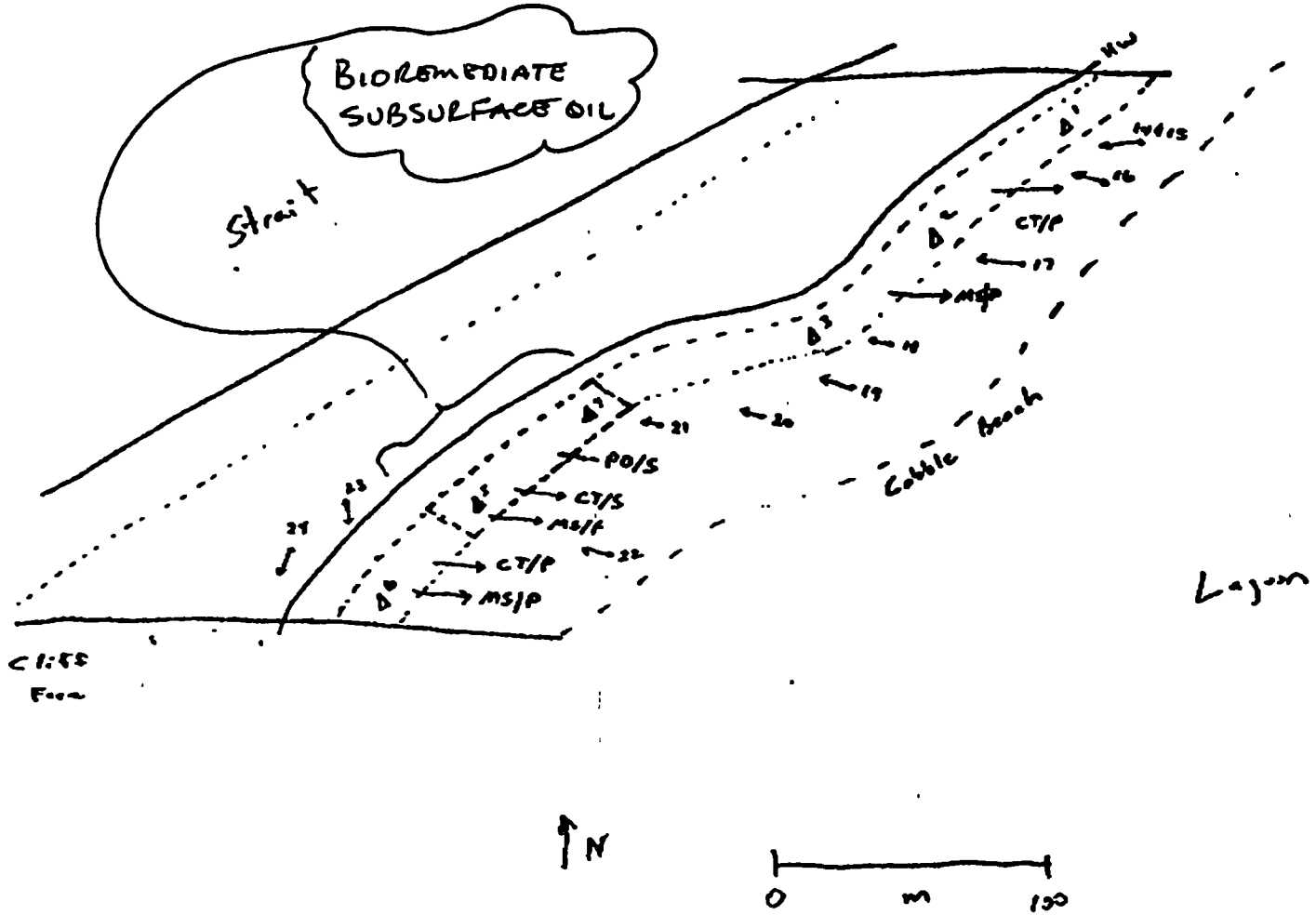
CT/S

Splashed Distribution

Oiled Vegetation

1 ●→

Photo location, direction, and number



Oil Character Length (m): AP 0 PO 70m CV 0 CT 330 ST 0 MS 330 PT 0 TB 0 FL 0 NO 0

REVISION 03/88

ACE 1852613-15

Sturgeon Lagoon K06-34

Segment #	Treatment manual	Bio.	Narrative work order indicates Contact Fish & Game	Signed by FOSC
SL-01	X		NO 1A 1B	yes
SL-02	X		NO 1A 1B	yes
SL-03	X		yes also 1A 1B	yes
SL-04	NO SSAT			
SL-05	No Treatment		NO 1A 1B	yes
SL-06	No Treatment		NO 1A 1B	yes
** SL-07 (Done by Sentinel)	X		yes Also 1A 1B	yes
* SL-08 (no Recoverable oil)	X	X	NO 1A 1B	yes
SL-09	No Treatment		NO 1A 1B	yes
SL-10	NO SSAT			
SL-11	No Treatment		NO 1A 1B	yes
SL-12	NO SSAT			
SL-13	No Treatment		NO 1A 1B	yes
SL-14	No Treatment		NO 1A 1B	yes
*** SL-15	X		yes	NO
SL-16	No Treatment		NO 1A 1B	yes
SL-17	X		NO 1A 1B	yes

* Note: Work order states bio. in Lagoon. Not Required To contact ADF&G Habitat Div (in narrative) However it does have a 1A & 1B

** Treated 6/17/90 without contacting ADF&G Habitat Division.

*** Sent To FOSC. Awaiting signed work order.

ACE 1852614-
-/L/C/FF/HF

89 Stream Survey

ASC NUMBER:	SEGMENT NUMBER:	YR CATALOGED:
LOCATION:		
STREAM NAME:		LATITUDE:
KODIAK K-UNIT:	LOCAL STREAM #:	LONGITUDE:
USGS QUADRANGLE:		LEGAL:
SHORELINE TYPE: Lagoon + Beach		WAVE EXPOSURE: Low + High

ASC NUMBER: 256-40-10010
SURVEY TYPE: SS
METHOD: F
* DATE: 9/4/89
START TIME: 1015
STOP TIME: 1200

TEAM RECORDER: JEFFREY P. BARNHART
OBSERVERS: R. Talvi, R. Dunbar

AGENCY(IES): ADF&G

PHOTOS TAKEN? Y
Roll #: 89-RGT-002-K Frames: 9-13
VIDEO TAKEN? Y Tape Number: HS008
Counter Start: 1924

89JPB008K

SAMPLES TAKEN? Y
SAMPLE I.D. NUMBERS: 1. K6-1-1 2. K6-1-2 3.
4. 5. 6.

which? .01 MB

OILING DATA

	LENGTH	WIDTH	M2	%	THICK	PEN	OIL TYPE
SITE 1	75m	3m	225	5	1cm	surface 1cm .01	ms patties
SITE 2	350m +	3m	1050	10	1.27cm	7cm	MS
SITE 3	150m	3m	450	10	1.27cm	12cm	MS
SITE 4	400m	1m	400	<1	.635cm	Ø	MS
SITE 5	300m	2m	600	1	1cm	1cm	MS

OVERALL OIL IMPACT: L-M

OIL IN STREAM CHANNEL? Y

OIL ON BEACH WITHIN 50M OF STREAM MOUTH? Y

SUBSTRATE			
Bedrock		Granule	
Boulder	X	Sand	X
Cobble	X	Silt	
Pebble	X	Veget.	

SPECIES	PS	SS			
COUNT	NO COUNT	NO COUNT			

COMMENTS: Site K6-1. Sturgeon Lagoon, Kodiak Island. Conditions precluded count of salmon. Salmon escapement counts can be obtained from ADF&G commercial finfish Division.
Site #2. oil band continues down the beach beyond the end of the area surveyed, for an undetermined distance. The mousse moved through the cobble layer and collected in the small sands and gravel beneath.

* p2. Continued

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

ASC NUMBER: 256-40-10010
SURVEY TYPE:
METHOD:
DATE: 9/4/89
START TIME:
STOP TIME:

TEAM RECORDER:
OBSERVERS:

AGENCY(IES):

PHOTOS TAKEN?
Roll #: Frames:
VIDEO TAKEN? Tape Number:
Counter Start:

SAMPLES TAKEN?
SAMPLE I.D. NUMBERS: 1. 2. 3.
4. 5. 6.

OILING DATA

	LENGTH	WIDTH	M2	%	THICK	PEN	OIL TYPE
SITE X 6	200 m	6 m	1200	5	1 cm	1 cm	ms
SITE 2							
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT:

OIL IN STREAM CHANNEL?

SUBSTRATE

Bedrock	Granule
Boulder	Sand
Cobble	Silt
Pebble	Veget.

OIL ON BEACH WITHIN 50M OF STREAM MOUTH?

SPECIES					
COUNT					

COMMENTS:

K6-34 SL-07 AFS 256-40-10010 (4)
Sturgeon River 1990

ACE 1852566+10

'90 cleanup

ASC NUMBER:
SEGMENT NUMBER: SL-07
YR CATALOGED:
LOCATION:
STREAM NAME: Sturgeon Lagoon
LATITUDE:
KODIAK K-UNIT:
LOCAL STREAM #:
LONGITUDE:
USGS QUADRANGLE:
LEGAL:
SHORELINE TYPE: Lagoon
WAVE EXPOSURE: Low

ASC NUMBER: 256-40-10010 (4)
SURVEY TYPE: CL
METHOD: Foot
DATE: 6/17/90
START TIME: N/A
STOP TIME:

TEAM RECORDER: No representation by ADF&G
OBSERVERS: T. Tomblin, D. Haven, F. Bennis, D. McBeg
AGENCY(IES): Exxon, USCG, ADEC, NPS

PHOTOS TAKEN? N
Roll #: Frames:
VIDEO TAKEN? N Tape Number:
Counter Start:

SAMPLES TAKEN? N
SAMPLE I.D. NUMBERS: 1. 2. 3.
4. 5. 6.

OILING DATA

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

OVERALL OIL IMPACT:

OIL IN STREAM CHANNEL?

SUBSTRATE	
Bedrock	Granule
Boulder	Sand
Cobble	Silt
Pebble	Veget.

OIL ON BEACH WITHIN 50M OF STREAM MOUTH?

SPECIES					
COUNT					

COMMENTS: This segment was surveyed on 4-4-90 by SSAT without ADF&G Habitat Division personnel present. A cleanup was conducted on 6-17-90 by Exxon without notifying ADF&G Habitat Division (see Middleton memmo to Exxon 7-17-90).

A post treatment survey was conducted on 6/30/90 (see Field Inspection Report of 6/30/90.)

State of Alaska
Department of Fish and Game
Habitat Division

Field Inspection Report

Date 6/30/90 Time 1330 hours

Location: (Logging unit/Road/Waterbody) Sturgeon Lagoon, Kodiak Island, Alaska K06-34-SL07 Anadromous Fish Stream # 256-40-10010

Operator/Contractor: Exxon (EVOS)

Individuals present at time of inspection:

Name	Representing
Randy (John) Reed	ADEC
Mike Goodwin	ADNR
Fred Byars	Exxon
~~Craig~~ Greg Harold 9/16	USCG

Activity/Situation Observed: Sunday June 17, 1990 this segment was treated by the crew of the M/V Sea Trader, Exxon supervisor Tommy Tomlin, without a work authorization from Habitat Division. This situation was addressed in the prior field inspection report submitted 6/18/90. The ADEC daily shoreline assessment form for this date, completed by Fran Bennis indicates .10 mud bag (super sack) of oil and sediments and oiled vegetation was removed. Based on 4,000 pounds per super sack, This would amount to 400 pounds. I inspected this segment on 6-30-90. I did not observe recoverable oil remaining in this segment. There is however, residual stain and coat on the cobble/pebble substrate throughout this segment.

Pertinent Statutes/Regulations:

Recommended/Required Action (Specify):

By (date) _____ (if applicable)

Please note: This is not a final inspection report. It is intended to provide the operator/contractor with a notice of problems or concerns which require immediate attention. If necessary, a final inspection report will be issued at a subsequent date.

Jeffrey P. Barnhart F.B.I
Fish and Game Representative/Title

Company Representative/Title

Form 11-88 (1-82)

ACE 1852573

State of Alaska
Department of Fish and Game
Habitat Division

Field Inspection Report

Date 6/30/90 JPB Time 1330 JPB hours

Location: (Logging unit/Road/Waterbody) STurgeon Lagoon, Kodiak Island, Alaska K06-34-SL07 Anadromous Fish STream # 256-40-10010

Operator/Contractor: Exxon (EVOS)

Individuals present at time of inspection:

Name	Representing
Randy (John) Reed	ADEC
Mike Goodwin	ADNR
Fred Byars	Exxon
Greg Harold JPB	USCG

Activity/Situation Observed: Sunday June 17, 1990 This segment was treated by the crew of the M/V Sea Trader, Exxon supervisor Tommy Tomlin, without a work authorization from Habitat Division. This situation was addressed in the prior field inspection report submitted 6/18/90. The ADEC daily shoreline assessment form for this date completed by Fran Bennis indicates .10 mud bag (super sack) of oil and sediments and oiled vegetation was removed. Based on 4,000 pounds per super sack this would amount to 400 pounds. I inspected this segment on 6-30-90. I did not observe recoverable oil remaining in this segment. There is however, residual stain and coot on the cobble/pebble substrate throughout this segment.

Pertinent Statutes/Regulations:

Recommended/Required Action (Specify):

By (date)_____ (if applicable)

Please note: This is not a final inspection report. It is intended to provide the operator/contractor with a notice of problems or concerns which require immediate attention. If necessary, a final inspection report will be issued at a subsequent date.

Jeffrey P. Barnhart F.B.I.
Fish and Game Representative/Title

Company Representative/Title

Form 11-88 (1-82)

State of Alaska
Department of Fish and Game
Habitat Division

Field Inspection Report

Date 6/30/90 JPB Time 1330 JPB hours

Location: (Logging unit/Road/Waterbody) Sturgeon Lagoon, Kodiak Island, Alaska K06-34-SL07 Anadromous Fish Stream # 256-40-10010

Operator/Contractor: Exxon (EVOS)

Individuals present at time of inspection:

Name	Representing
Randy (John) Reed	ADEC
Mike Goodwin	ADNR
Fred Byers	Exxon
Greg Harold JPB	USCG

Activity/Situation Observed: Sunday June 17, 1990 This segment was treated by the crew of the M/V Sea Trader, Exxon supervisor Tammy Tamlin, without a work authorization from Habitat Division. This situation was addressed in the prior field inspection report submitted 6/18/90. The ADEC daily shoreline assessment form for this date, completed by Fran Bennis indicates .10 mud bag (super sack) of oil and sediments and oiled vegetation was removed. Based on 4,000 pounds per super sack This would amount to 400 pounds. I inspected this segment on 6-30-90. I did not observe recoverable oil remaining in this segment. There is however, residual stain and coat on the cobble/pebble substrate throughout this segment.

Pertinent Statutes/Regulations:

Recommended/Required Action (Specify):

By (date) _____ (if applicable)

Please note: This is not a final inspection report. It is intended to provide the operator/contractor with a notice of problems or concerns which require immediate attention. If necessary, a final inspection report will be issued at a subsequent date.

Jeffrey P. Barnhart F.B.I.
Fish and Game Representative/Title

Company Representative/Title

Form 11-88 (1-82)

State of Alaska
Department of Fish and Game
Habitat Division

Field Inspection Report

Date 6/30/90 JFB Time 1330 JFB hours

Location: (Logging unit/Road/Waterbody) Sturgeon Lagoon, Kodiak Island, Alaska K06-34-SL07 Anadromous Fish Stream # 256-40-10010

Operator/Contractor: Exxon (EVOS)

Individuals present at time of inspection:

Name	Representing
Randy (John) Reed	ADEC
Mike Goodwin	ADNR
Fred Byers	Exxon
Greg Harold JFB	USCG

Activity/Situation Observed: Sunday June 17, 1990 This segment was treated by the crew of the M/V Sea Trader, Exxon supervisor Tammy Tomlin, without a work authorization from Habitat Division. This situation was addressed in the prior field inspection report submitted 6/18/90. The ADEC daily shoreline assessment form for this date completed by Fran Bennis indicates .10 mud bag (super sack) of oil and sediments and oiled vegetation was removed. Based on 4,000 pounds per super sack. This would amount to 400 pounds. I inspected this segment on 6-30-90. I did not observe recoverable oil remaining in this segment. There is however, residual stain and coat on the cobble/pebble substrate throughout this segment.

Pertinent Statutes/Regulations:

Recommended/Required Action (Specify):

By (date)_____ (if applicable)

Please note: This is not a final inspection report. It is intended to provide the operator/contractor with a notice of problems or concerns which require immediate attention. If necessary, a final inspection report will be issued at a subsequent date.

Jeffrey P. Barnhart F.B.I.
Fish and Game Representative/Title

Company Representative/Title

Form 11-88 (1-82)

EVOS CLEANUP MONITORING, 1990.*

REGION: Kodiak

K-UNIT: Ko6-34

SEGMENT: SL-07

LOCATION: Sturgeon Lagoon

STREAM NAME: Sturgeon River

ANAD. STREAM CAT. #: 256-40-10010

ANAD. FISH STREAM PERMIT ISSUED: No

DATE(S) WORKED: 6/17/90.

SQUAD #: 9 Sea Trader

SQUAD SIZE: 9

NUMBER OF BAGS Collected: N/A

POUNDS OF OIL/OILED SEDIMENT REMOVED: EST. 250-400

TREATMENT TECHNIQUES: MANUAL REMOVAL X BIOREMEDIATION

OTHER

DEMOB DATE: 6/17/90

OIL SAMPLE #: N/A

OIL TYPE: MS/TB/CU/ST

SUBSTRATE TYPE: B 10%

C 70% P 10%

REPRESENTATIVES

EXXON: Tommy Tomblin

USCG: Dan Haven

DEC: Fran Benais

NPS: Don McBee

USF&WS: N/A

ADF&G: No Representation

OTHER:

HOURS WORKED: 3.25

TOTAL MAN HOURS worked: 29.25

DATE WORK ORDER ISSUED 5-1-90

OIL BANDS

L ___	W ___	D ___	m^2 ___	% oil cover ___	Volume ___
L ___	W ___	D ___	m^2 ___	% oil cover ___	Volume ___
L ___	W ___	D ___	m^2 ___	% oil cover ___	Volume ___
L ___	W ___	D ___	m^2 ___	% oil cover ___	Volume ___
L ___	W ___	D ___	m^2 ___	% oil cover ___	Volume ___

PHOTOLOG

Roll #	FRAME #	DESCRIPTION
N/A		

* Data on This page from ADEC Report.

ACE 1852567+HS/FF

PROBLEMS: This segment was surveyed on 4-4-90 by SSAT without ADF&G Habitat Division personnel present. A cleanup was conducted on 6-17-90 by Exxon without notifying ADF&G Habitat Division (see Middleton memo to Exxon 7-17-90).

OBSERVATIONS: A post treatment survey was conducted on 6/30/90 (see Field Inspection Report of 6/30/90)

SIGNED: Jeffrey P Barnhart

ACE 1852568 -IS

MEMORANDUM

State of Alaska

DEPARTMENT OF FISH & GAME

TO: File

DATE: May 17, 1990

FILE NO.:

TELEPHONE NO.: 486-5033

SUBJECT: Kodiak Island Local Response Program - Spring 1990

FROM: Jeffrey P. Barnhart
Habitat Biologist
Region II
Habitat Division
Department of Fish and Game

On May 15, 1990 I called the Kodiak Island Borough (KIB) oil office, and spoke to Joanna Fujimoto. She was unable to answer any of my questions pertaining to the village response program activities in Sturgeon Lagoon. From what she indicated, the information the borough received from Karluk Village was too sketchy to be of much use. Joanna contacted Sheila (secretary) in the KIB oil office, who in turn called me. Sheila compiled the dates worked from the payment ledger book. The crew from Karluk Village supposedly worked in Sturgeon Lagoon on the following dates: March 15, 16, 19, 20, 21, 22, 23, 26, 27, 28, 29, 30, April: 2, 3, 4, 5, 6, 9, 10, 11, 12, 13, 16, 17, 18, 19, 20, 23, 24, 25, 26, 27, 30, May 1, 2, 3, 4.

Joanna also called Ron Lind, the Mayor of Karluk, who in turn called me on May 17, 1990. Mr. Lind provided me with the following information:

1) The average number of cleanup workers per visit was 4 -5.
2) Maximum number of cleanup workers per visit was 10.
3) 1,100 pounds of oil removed from the S.W. side of Lagoon. The S.W. side of the Lagoon is comprised of segments SL-007 and SL-008.

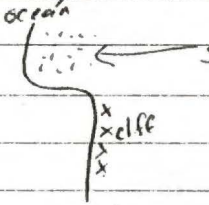
Alaska Department of Fish and Game, (ADF&G) Habitat Division was not notified of any work undertaken in Sturgeon Lagoon, anadromous stream 256-40-10010.

During the course of the KISCC review of The Local Response plan I indicated any work conducted in an anadromous stream would require notification of Habitat division, work authorization permits and possibly monitors.

ACE 1852569

6/30/98 266-6503

Saturday - 6:45 To ICP.
Archie → 0900 Sea Trader will be at Red Fox For cleanup. Called Dec Air ops Set up flight For Bierman Departure Tomorrow To Red Fox To monitor cleanup.
USFWS just Told me There is oil in Alinchak Bay at a salmon stream mouth / Tidal Flat AS 7/8. mid Tide check south possibly AS 5, 6, 7 and 8. AS 2 by stream mouth is also scheduled



Survey this with Dave Kirkby.

work on Time Sheet / Activity. Coordinating with USFWS & Eaton Eagle specialists on the Eagle nest at SI 14, Big Fort Creek.

Depart Todosk Airport 12:25pm Arrive Sturgeon 1:15pm walked SL 8 & SL 7. The substrate is cobble / gravel. Oil is coat / stain on cobble. Black oiled oil. Natural degradation is occurring at a steady pace. Due To The nature of The substrate oxygen can reach The oil. There is an expansive Eel grass bed adjacent The cobble beach. I suggest no additional Cleanup & no bioremediation. Salmon Carcasses provide The nutrients in This Low energy environment necessary for biodegradation.

walked SL 1 SL 2 SL 3
SL 3 - oiled boom (pom poms) & cleanup debris 1 Tarball
SL 2 - oiled pom poms & cleanup debris 2 Tarballs
1601 1610 See Final summary next page as To what we removed.
Step work to begin
Found 4 as Tar balls up To 6" diam. at end of segment # 2 & cubic also 4 bags empty, from Eaton crew.
Depart upside 6:07 pm. SOREH. We were supposed To stop & pick up The oiled boom in SL 7 with This helicopter. They (pilots) departed Lagoon w/out Stopping. They shut The communications off To my headset but not before they started Talking about Bill. Also. After we Loaded The bags of debris into The helicopter The pilot said we could not carry them because They blocked The door. Told Bill (Foreman) we could put Them in Tail boom but There is no space in There either. We had six bags, we only brought 4 and back in with us. Bill and crew with exception of Todd (he was with us) were left remaining on The beach w/out a helicopter as SH went To Kaluk To

ACE 1852570
ACE 1852571

6/30/90 GB

refuse.

Land Kodiak 6:55 pm.
work on Tomorrows schedule with Fred, Tommie
Sea Trader) USFWS, DNR, DEC + Coast Guard.
will Depart 11:30 Am. Boat crew will
work on Big Fort creek. Helo crew on Red Fox
creek/Lagoon. Debriefing. Draft of Todays
work effort. Done 9:30 pm
Personnel on Flight: FRED BYARS (Exxon)
Randy Reed (ADEC) GREG Haidd (USCG)
Mike Goodwin (DNR) and myself.

SL003 Found heavy oiled boom 20' in length partially buried
and 20' of unoiled boom, plus cleanup debris. A few small
Tar balls {8 bags of boom + oiled debris.}
SL002 Removed appox 1 gallon of Tarballs, unoiled boom,
cleanup debris {3 bags + boom Total}
SL001 - 3 TB plus oiled debris {2 bags Total}

Fred Byars spoke To Tommie Tomblin at appox 8:00 pm
Today. He Told Fred They took five buckets of
oiled material from SL07 on 6/12/90

ACE 1852572

Kelly Copy

STEVE COWPER, GOVERNOR

DEPARTMENT OF FISH AND GAME

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

June 28, 1990

Mr. R.G. Dragnich
Exxon Company, U.S.A.
Alaska Operations
P.O. Box 240409
Anchorage, Alaska
99524-0409

Dear Mr. Dragnich:

Enclosed is a Field Inspection Report from our Kodiak field office citing a particular problem of non-notification that occurred on June 17, 1990.

The area involved is on the west coast of Kodiak Island in segment K09-34-SL-7 (Sturgeon Lagoon). The work order specified that our agency be notified before cleanup operations commenced. The Exxon representative was Tommy Tomlin on the vessel Sea Trader.

We had a number of such problems relating to sudden schedule changes and non-notification, to any agency, early on. Hopefully, these problems have been resolved by now. I am going to Kodiak next week, and will be checking into activities relating to our agency and anadromous streams in particular. I may be contacted at 486-5033 while there.

This report is being sent for your information. Please sign and return the original copy to me at this address.

Incidentially, I wish to report that the helicopter crew under Fred Byar's supervision is doing an excellent job according to my information.

Sincerely,

Kenneth R. Middleton

Kenneth R. Middleton
Field Office Coordinator
Kodiak Field Office

Enclosure

cc: Mark Kuwada

ACE 1852574

Jeff - for your files Mark K. sent by 7/17/90

EXXON COMPANY, U.S.A.

ALASKA OPERATIONS
POST OFFICE BOX 240409 · ANCHORAGE, ALASKA 99524-0409

July 17, 1990

Mr. Ken Middleton
Alaska Department
of Fish And Game
333 Raspberry Road
Anchorage, Alaska 99518-1599

Subject: Kodiak Field Inspection Report of Non-notification June 17, 1990

Dear Mr. Middleton:

We have investigated the non-notification problem cited in your letter dated June 28, 1990 concerning work done on segment K9-34-SL7, Sturgeon Lagoon. As indicated in your field report, the problem resulted from a last minute change in work activity that was not communicated to the Alaska Department of Fish and Game (ADFG). Our procedures have been to provide ADFG the DAILY WORK PLAN giving a 7-day outlook of our work schedule and to notify ADFG of changes as they occur. In this case, however, the procedures apparently broke down.

We have implemented the following notification protocols if last minute work locations change in an attempt to ensure adequate notification.

- Contact ADFG Kodiak office at 486-5033, or
- Notify ADEC in the Kodiak Command Center, or
- Exxon field supervisor notifies an ADFG field monitor if his/her location is known.

It should be noted that if there are no "weekend duty" ADFG personnel, notification of work location changes during weekends may not be received by ADFG in a timely manner. We feel implementation of these procedures represents good faith efforts to maintain communications and meet ADFG's notification requirements.

In the event ADFG has any questions regarding our procedures or work areas please call me at 564-3631 or Glenn Raz at 564-3620. If you are unable to reach us, please contact Exxon Operations' Mark Meyer at 564-3288 or Scott Nauman/ Bill Stillings at 564-3626. If Operations personnel are not available at these numbers please call our Joint Transportation Operations Center (JTOC) at 266-6582. JTOC is capable of reaching Operations personnel on a 24 hour basis.

Any suggestions you have to improve the process will be appreciated. As always, Glenn and I are available if you have any other questions.

Sincerely,

R. G. Dragnich

Attachments
cc: Mr. John Morrison, ADFG

ACE 1852575

(4)

DEMOBILIZATION REPORT

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

K6-34

SEGMENT NUMBER SL-007 DATE 6-17-90
SUB DIVISION

Has work been completed as stated on the work order?

Yes

Is there additional oil remaining?

Very little

Do you recommend further treatment?

No

What is the recommended treatment method?

Describe amount of oil remaining- size area and location

Residual stains, coat

Date and Time of demobilization from segment "C"

6-17-90 @ 20:00

COMPLETE THIS FORM AND FAX TO ANCHORAGE AFTER DEMOBILIZATION FROM EACH SEGMENT

Additional Comments

NAME Fran Bennis
VESSEL NAME M/V 'Sea Trader'
TEAM # 9
EXXON Tommy Tomlin
COAST GUARD Don Haven
VECO
Clyde (Zack) Katelinkoff

(5)

ADEC DAILY SHORELINE ASSESSMENT

LOCATION: K6-34 Sturgeon Lagoon SEG SL007 SUBSEG A
MONITOR(S): Fran Bennis
DATE: 4-17-90 TIME: BEGIN 1645 END 2000

TIDES:	TIME:	HEIGHT:
LOW	03:59	5.9'
HIGH	10:05	13.2'
LOW	17:04	4.2'
HIGH	22:22	14.7

(Seldovia)

WEATHER: (CLOUDY) (RAIN) FOG SUN
TEMP: 55°F SEA COND: calm
WIND DIR: N-NE-E-SE-S-SW-W-NW
WIND SPEED (KNOTS): (0-15) 16-30 30+

ENVIRONMENTAL CONSTRAINTS: (SEAL HAULOUTS, EAGLE NESTS, MUSSEL BEDS, ETC.) 1A, 1B Salmon stream (256-40-10010)
No constraint to manual pickup.

WAVE EXPOSURE: LOW MED HIGH
ACROSS SHORE ZONE: SU UITZ MITZ LITZ

SURFACE SEDIMENTS: R___% B___% C___% P___% G___% S___%
SUBSURFACE SEDIMENTS: R___% B___% C___% P___% G___% S___%

OIL CHARACTERISTICS

SURFACE: POOLED - (MOUSSE) - (TARBALL) - (COVER) - COAT - (STAIN)
SUBSURFACE: ~~OP - OR - OF~~

TREATMENT TECHNIQUES

MANUAL RAKING/TILLING
MANUAL REMOVAL: PO-(MS)-AP-TB
SPOT WASHING
OTHER

HEADER FLOOD (HOT/COLD)
BIOREMEDIATION
MECHANICAL

EQUIPMENT USED: Shovels, trowels
NAMES OF REPS & OTHER AGENCIES: EXXON Tommy Tomblin
USCG Don Haven OTHER: No USFWS Don McBee NPS background
WORKERS ON SITE: ORTS 9 OTHER:

WASTE HANDLING/DISPOSAL

ITEMS USED TO ABSORB/CONTAIN OIL Sorbents
* # OF BAGS COLLECTED: .10 mud bag
OILED DEBRIS ___ OIL & SEDIMENTS X .08 OILED VEG. X .02
OILED LOGS PRESENT: Y (N) # OF LOGS REMOVED ___

4/20/90 * Mud Bag = Superbag 45 cubic feet or ~~4,000 pounds~~ 2,000 pounds.
So .10 mud bag = 4.5 cubic feet JPB
*Early information from Fran Bennis.

ACE 1852577

Helosquad used 4000 = 1 supersack For all calculations when Fred Byars was the exxon Rep. JPB 9/20/90.

PHOTO/VIDEO DOCUMENTATION

PHOTOGRAPHS: ROLL # / FRAME(S): _____ REASON: _____

VIDEO: TAPE # / REASON: _____

COMMENTS

PROBLEMS: ENFORCEMENT ACTIVITIES, UPLAND CONT., ETC.
(PLEASE NOTE IF PROBLEM WAS DISCUSSED WITH PROPER AUTHORITY, AND SUBSEQUENT RESPONSE.)

I expressed concern about having the proper land managers present for execution of work order on SL-007. I discussed this with both the Coast Guard + Exxon reps. I also thought that Kodiak Fish + Game Habitat rep needed to be notified due to salmon streams. I recd word from the Kodiak OSRO that I was to act as the State representative (DEC/FTG), + USFWS did not have jurisdiction here. (Native Corporation perhaps) Work order has been carried out here in this segment.

OBSERVATIONS: TREATMENT EFFICIENCY, POSSIBLE IMPROVEMENTS, ETC.

Sporadic mousse patties were the only recoverable oil here. Adjacent segments here also have work orders for manual treatment. It'd be good to be able to work more than one segment in an area at a time. Hopefully a more complete set of usable work orders are forthcoming.

Communication between Exxon OPS/Field Ops | Agencies must be clarified in a more timely manner. I'd been notified of the work here only this morning. Land manager representation becomes more difficult than it needs to be under these circumstances.

SIGNATURE _____

ACE 1852578

Field copy

SHORELINE EVALUATION

SEGMENT ST/ K06-34-SL-07 SUBDIVISION A (1 OF 1) DATE 4/7/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:
Salmon stream mouth no. 256-40-10010.
Salmon stream outmigration (1A) - 3/1 to 3/15 and spawning (1B) - 7/10 to 8/31. No disturbance of stream bed or banks unless authorized by ADF&G. Contact ADF&G Habitat Division prior to treatment for permits.
Sensitive estuary (8AA).

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). required prior

SHPO SIGNATURE: Charles J. Holmes DATE: 4/17/90

OILING CATEGORIZATION:
Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 112.5 m^3: No Oil 0 m
Subsurface Oil Observed: Yes ____ No X Maximum Depth ____

RECOMMENDATIONS:

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

COMMENTS:

TAG COMMENTS:
DUE TO THE ENVIRONMENTAL SENSITIVITIES AND RESOURCE USE MANUAL PICK UP OF MOUSSE PATTIES REQUIRED.

TAG APPROVAL DATE: 4/14/90.
ADEC Art Weiner Art Weiner
EXXON Andy Teal Andy Teal
NOAA Bert Wisecup Bert Wisecup
USCG G.A. REITER G.A. Reiter

FOSC: [signature] DATE: 5-1-90

ACE 1852579 +/S

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / k0634 / sl009 SUBDIVISION: A DATE 4-4-90

~~MAA~~ ~~USCG~~
NAME John Naughton SIGNATURE John J. Naughton

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED
COMMENTS

Oil stains and some mousse were observed in an almost continuous band of 1 to 2 metres wide along this entire segment. However did not appear to be subsurface. Because this segment is low energy the mousse should be removed manually. The stained cobbles should not be treated and no cobble should be removed from the beach during treatment.

ADEC
NAME Scott Shelton SIGNATURE Scott Shelton

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED
COMMENTS k0634/SL007 1164 meters. ASSESSMENT.
Band of oil observed in splashes 2 meters wide, rather sporadic along this segment. Mousse in sediment observed in this band as well. Impact can be found in the Mid to upper tidal levels. 6 pits in cobbles to 20 cm NO Subsurface oil observed. Impact can be observed along the entire 1164 meters. Type A clean up could greatly improve surface conditions. Low energy bea

LAND MANAGER
NAME John Merrick SIGNATURE John Merrick Koniag, Inc

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED
COMMENTS

If treating other segments a once over picking up the mousse patches is recommended

ACE 1852580

US Island

SEGMENT ST/ K0634/ SL007

SUBDIVISION A

DATE 4 / 4 90

SKETCH MAP

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

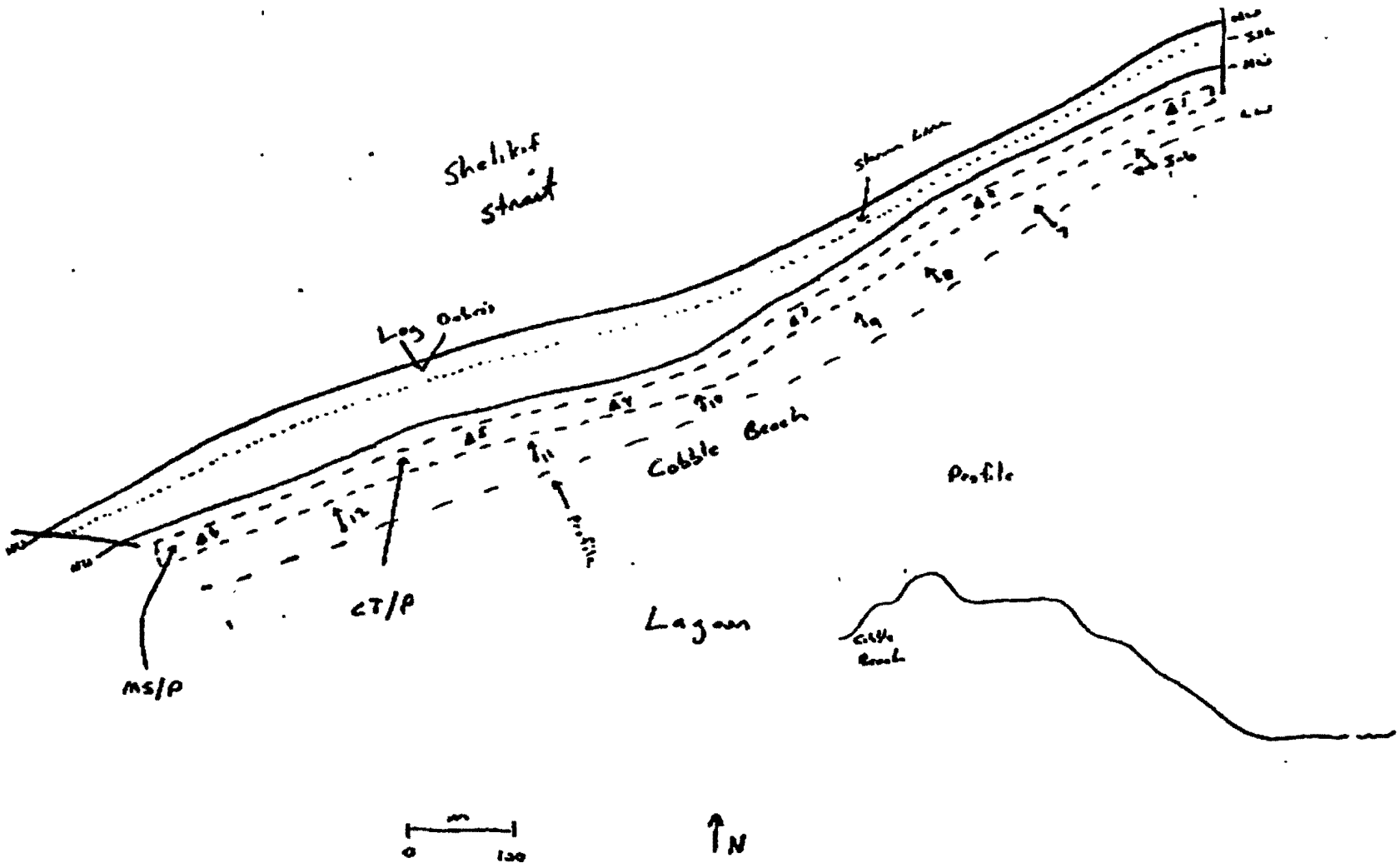
CT/B Broken Distribution

CT/P Patchy Distribution

CT/S Splashed Distribution

Oiled Vegetation

1 ⇨ Photo location, direction, and number



ACE 1852581-IS

Oil Character Length (m): AP 0 PO 0 CV 0 CT 1164 ST 0 MS 1164 PT 0 TB 0 FL 0 NO 0

REVISED 6/93/VER

ADDENDUM: SUBDIVISION CONSTRAINTS

SEGMENT KO6-34-SL-07 SUBDIVISION A (1 of 1)

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 (256-40-10010) is in Subdivision A. No constraint to manual pickup.

OTHER ECOLOGICAL CONSIDERATIONS

No disturbance to stream bed or banks. Avoid any unnecessary disturbance or damage to unoiled biota and substrate. Sensitive Estuary

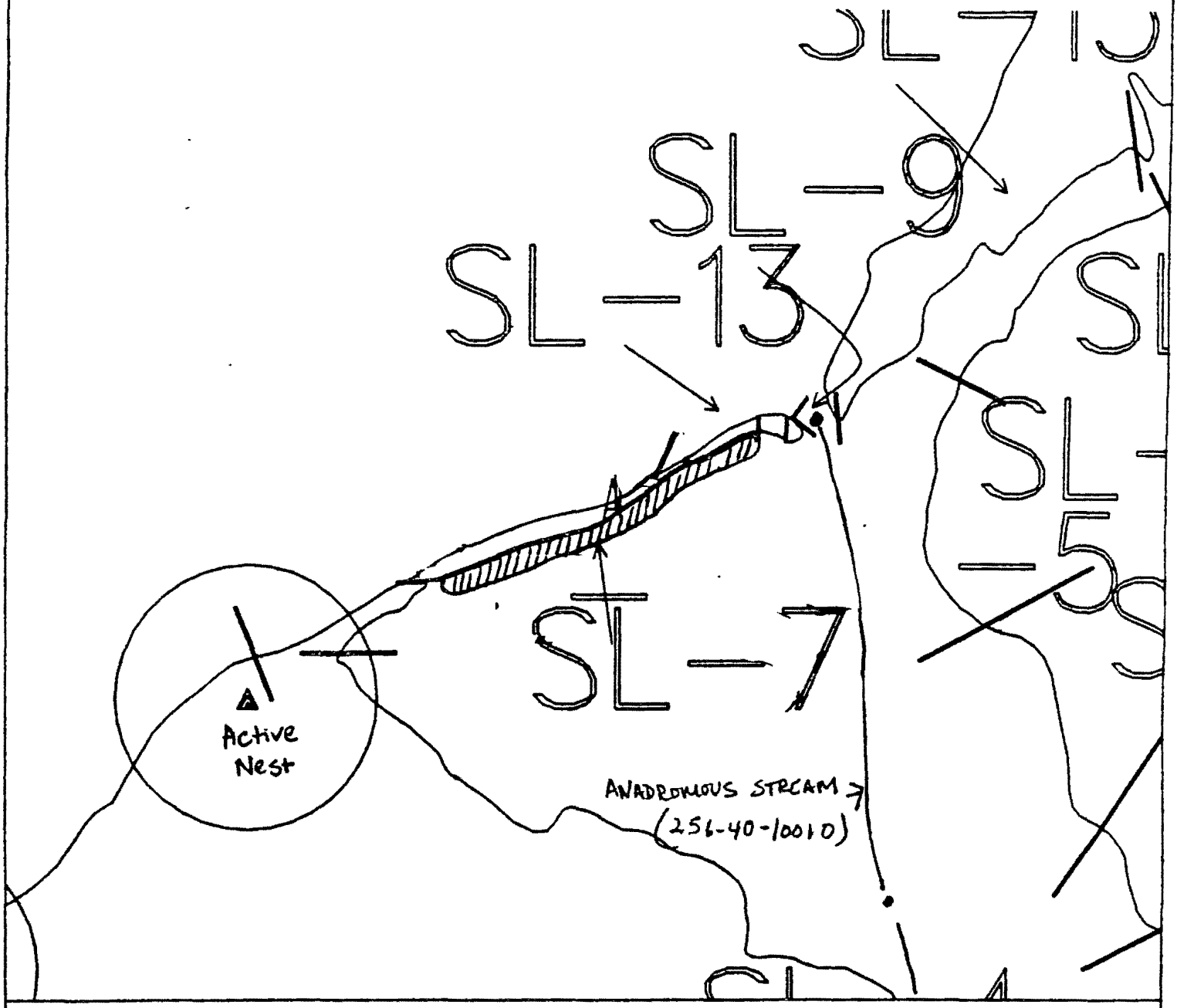
TAG APPROVAL DATE_____
ADEC_____
EXXON_____
NOAA_____
USCG_____

FOSC [signature] DATE 6-10-90

Prepared By: Ray R. Coulter

Date 06/10/90

ACE 1852582 +16



EXXON

Exxon Company, USA
Map Key: KOD-SL-7
May 17, 1990

ECOLOGY MAP
SEGMENT SL-7
SUBDIVISION A (1 of 1)

METERS
0 460 920

★ Seabird Colony
▲ Eagle Nest

1 inch = 1509 feet

ACE 1852583

SHORELINE EVALUATION

SEGMENT ST/ K06-34-SL-07 SUBDIVISION A (1 OF 1) DATE 4/7/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:
Salmon stream mouth no. 256-40-10010.
Salmon stream outmigration (1A) - 3/1 to 3/15 and spawning (1B) - 7/10 to 8/31. No disturbance of stream bed or banks unless authorized by ADF&G. Contact ADF&G Habitat Division prior to treatment for permits.
Sensitive estuary (8AA).

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). required prior

SHPO SIGNATURE: Charles E Holmes DATE: 4/17/90

OILING CATEGORIZATION:
Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 112½ m: No Oil 0 m
Subsurface Oil Observed: Yes ____ No X Maximum Depth ____

RECOMMENDATIONS:

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

COMMENTS: SEE CONSTRAINT ADDENDUM DATED 06/10/90. REX C.

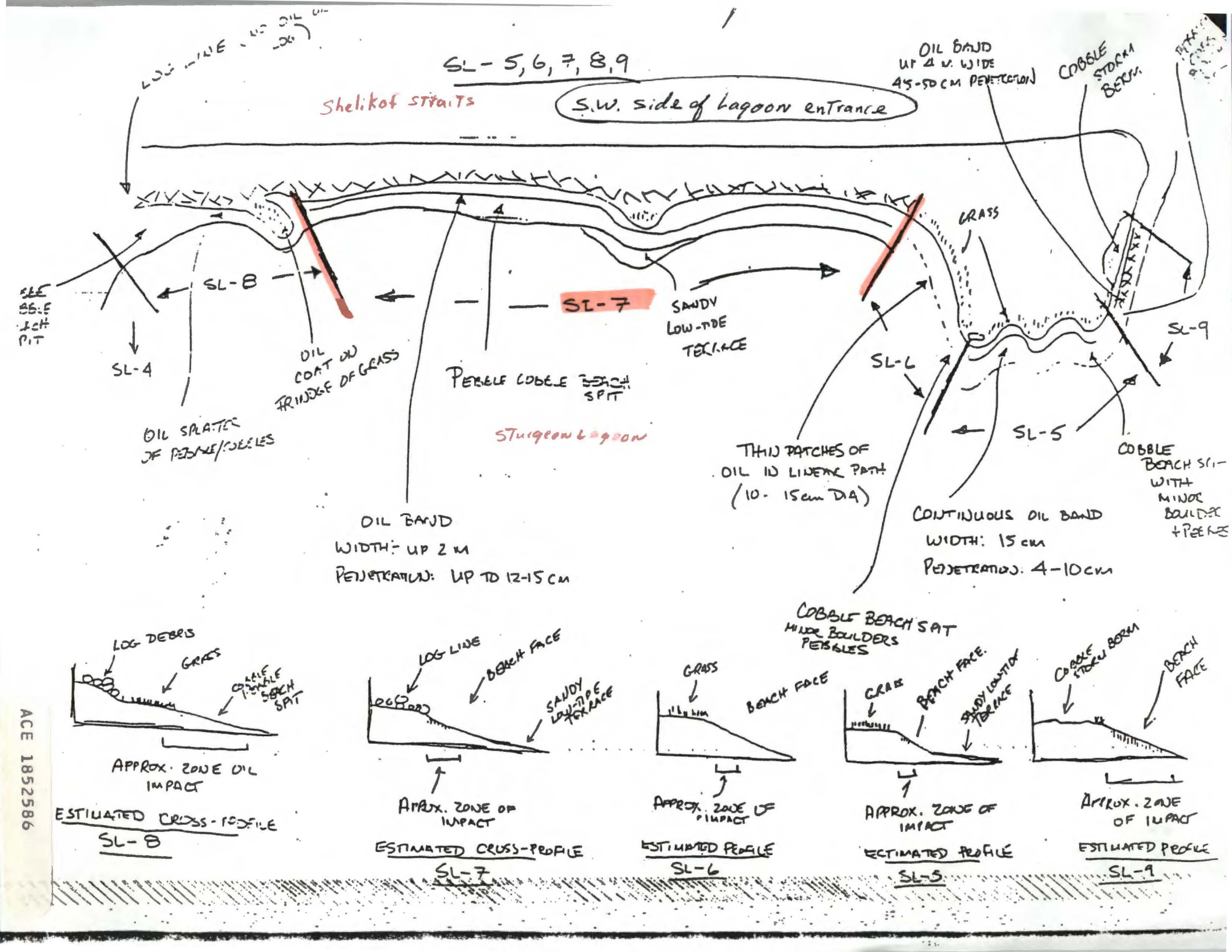
TAG COMMENTS:
DUE TO THE ENVIRONMENTAL SENSITIVITIES AND RESOURCE USE MANUAL PICK UP OF MOUSSE PATTIES REQUIRED.

TAG APPROVAL DATE: 4/14/90.
ADEC Art Weiner
EXXON Andy Teal
NOAA
USCG G.A. REITER
FOSC: DATE: 5-1-90

ACE 1852584-15

SL 9 & 5 are on The SW side of The Lagoon Entrance.
SL 15 is on The NE side of The Lagoon entrance
Shelikof Strait
NE side
SW side
Manual (proposed)
SL-16
No Treatment
SL-15
SL-17
manual
SL-13
SL-9
SL-5
SL-3
manual
SL-6
SL-14
SL-7
Bioremediation + manual
SL-8
SL-2
manual
SL-1
SL-11
SL-12
SL-4
KODIAK NATIONAL
STURGEON RIVER
SL-10
NO SSHT
STURGEON LAGOON BLOCK
— SL-1, SL-2, SL-3, SL-4, SL-5, SL-6, SL-
SL-8, SL-9, SL-10, SL-11, SL-12, SL-13, SL
SL-15, SL-16, SL-17
30' (KARLUK B-2)
SCALE 1:63360
3000 0 3000 6000 9000 12000 15000 18000
MAGNETIC NORTH
CONTOUR INTERVAL 100 FEET
DASHED LINES REPRESENT 50 FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929
DEPTH CURVES IN FEET – DATUM IS MEAN LOWER LOW WATER
SHORELINE SHOWN REPRESENTS THE APPROXIMATE LINE OF MEAN HIGH WATER
THE AVERAGE RANGE OF TIDE IS APPROXIMATELY 11 FEET

ACE 1852585


SL - 5, 6, 7, 8, 9
Shelikof Straits
S.W. side of Lagoon entrance
OIL BAND UP 4 M. WIDE 45-50 CM PENETRATION
COBBLE STORM BERM
GRASS
SL-8
SL-7
SANDY LOW-TIDE TERRACE
SL-4
SL-6
SL-5
SL-9
OIL COAT ON FRINGE OF GRASS
PEBBLE COBBLE BEACH SPIT
OIL SPATTER OF PEBBLE/COBBLES
Sturgeon Lagoon
THIN PATCHES OF OIL IN LINEAR PATH (10 - 15 cm DIA)
OIL BAND
WIDTH: UP 2 M
PENETRATION: UP TO 12-15 CM
CONTINUOUS OIL BAND
WIDTH: 15 cm
PENETRATION: 4-10 cm
COBBLE BEACH SAT
MINOR BOULDERS
PEBBLES
COBBLE BEACH SPIT WITH MINOR BOULDER + PEBBLES
LOG DEBRIS
GRASS
COBBLE PEBBLE BEACH SPIT
APPROX. ZONE OIL IMPACT
ESTIMATED CROSS-PROFILE
SL-8
LOG LINE
BEACH FACE
SANDY LOW-TIDE TERRACE
APPROX. ZONE OF IMPACT
ESTIMATED CROSS-PROFILE
SL-7
GRASS
BEACH FACE
APPROX. ZONE OF IMPACT
ESTIMATED PROFILE
SL-6
GRASS
BEACH FACE.
SANDY LOW TIDE TERRACE
APPROX. ZONE OF IMPACT
ESTIMATED PROFILE
SL-5
COBBLE STORM BERM
BEACH FACE
APPROX. ZONE OF IMPACT
ESTIMATED PROFILE
SL-9

ACE 1852586

FIELD SHORELINE COMMENT SHEET

ASAP

K-6-34

SEGMENT AS/ SL-07 SUBDIVISION: A SITE: 1 DATE 13 Aug 90

USCG

NAME J. Schultz SIGNATURE Jerry Schultz

☐ YES ☒ NO PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

ADEC

NAME F. Bennis SIGNATURE

☐ YES ☒ NO PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

Weathered stains present, very little soil

LAND MANAGER

NAME J. Merrick SIGNATURE John Merrick

☐ YES ☑ NO PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

EXXON

NAME T. Tomblin SIGNATURE

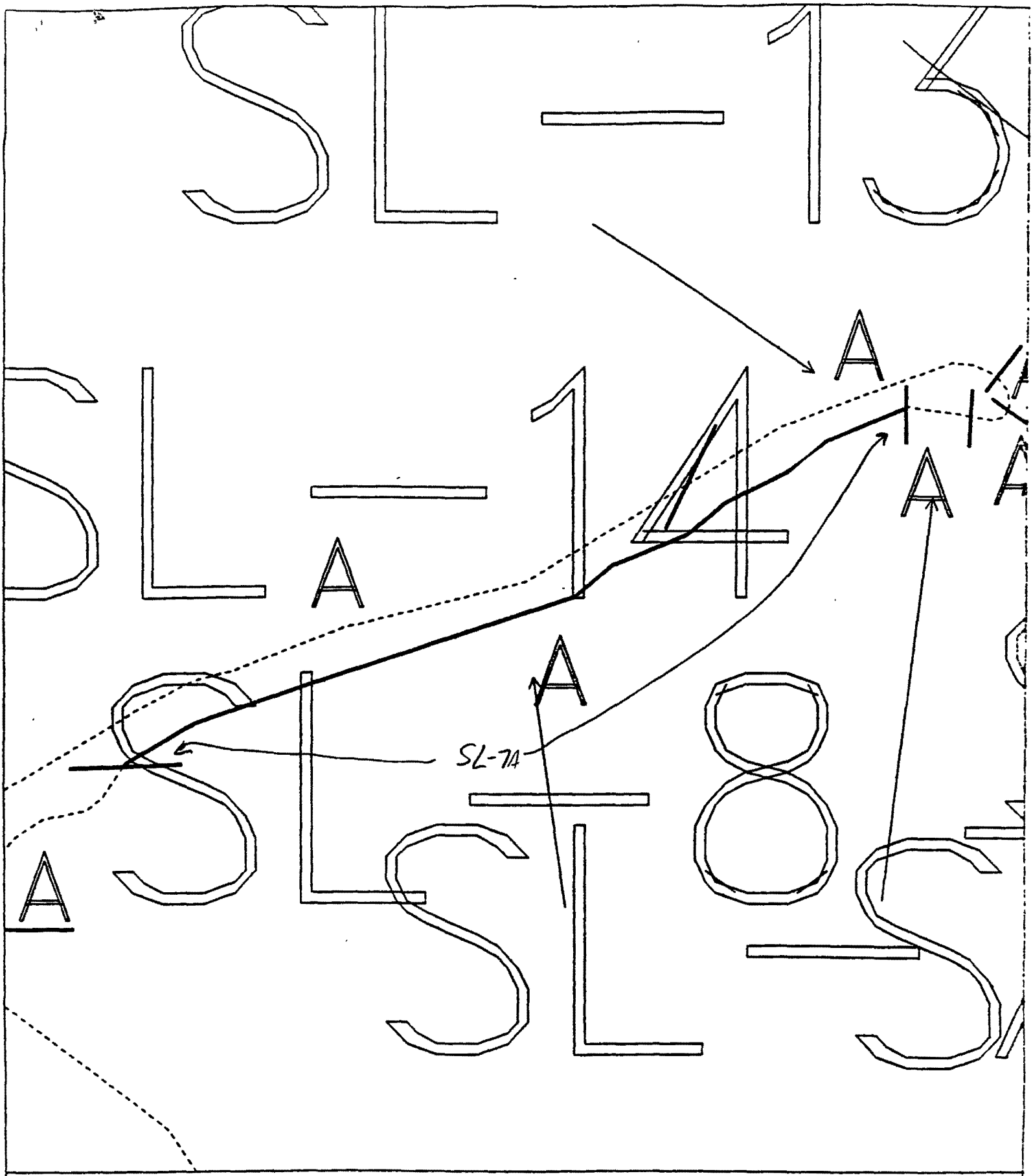
☐ YES ☒ NO PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

DIL REMOVED DURING TREATMENT

REVISION NO. 7/26/90

ACE 1852587 +/S



SEGMENT K6-34 SL-7 Segment Location Map

Map Key: KODK6-34SL-7

ACE 1852588

July 18, 1990

METERS

0 171 342

1:6736

SKETCH MAP

EGMENT ST/ KO634/ SL007

UBDIVISION A

ATE 4/4/90

HECKLIST

- N Arrow
- Approx. Scale
- Sep/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 ▲

t - No Subsurface Oil

2 ▲

t - Subsurface Oil

CT/C

ontinuous Distribution

CT/B

roken Distribution

CT/P

atchy Distribution

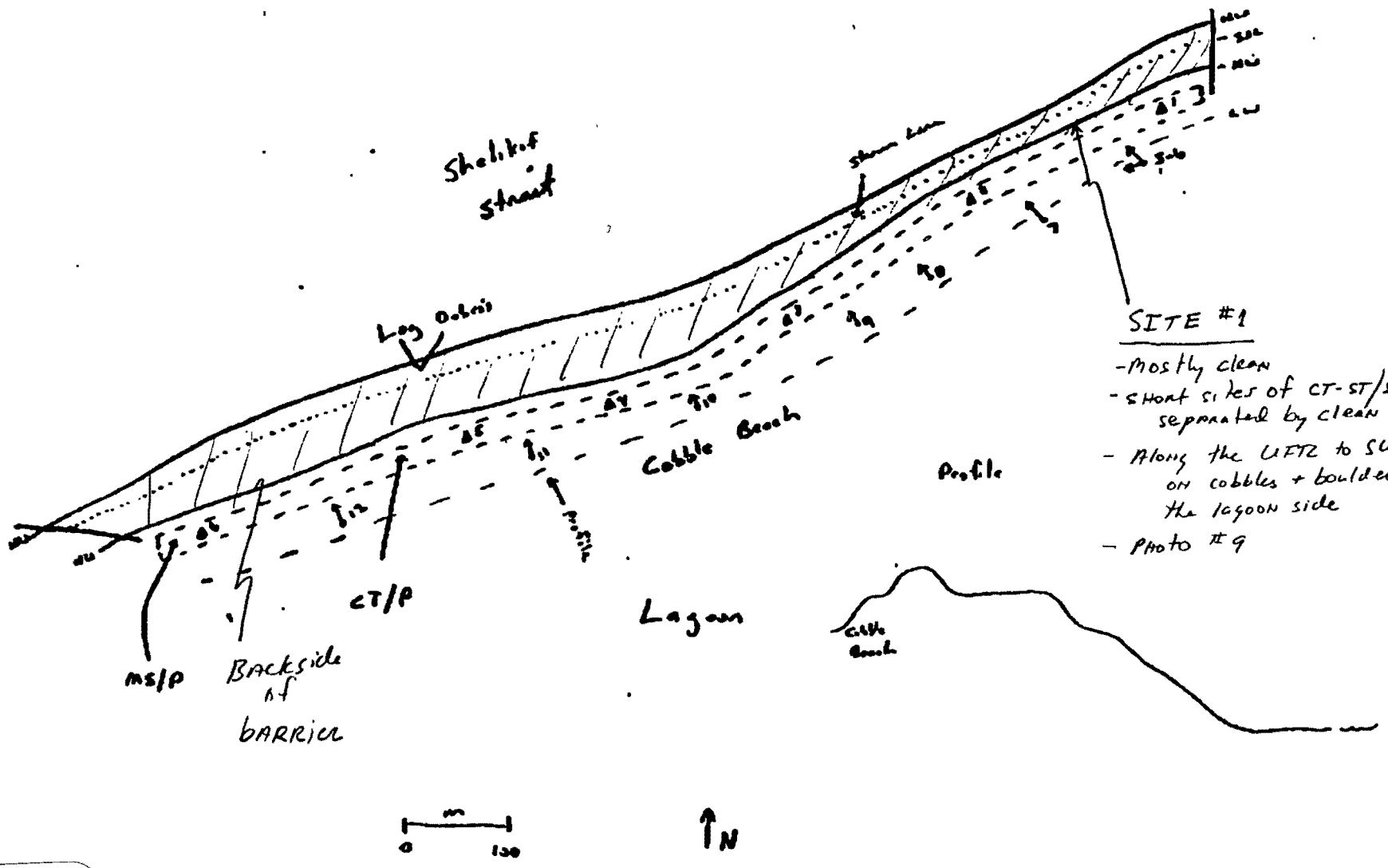
CT/S

atched Distribution

ted Vegetation

1 ⇨

hoto location, direction, nd number



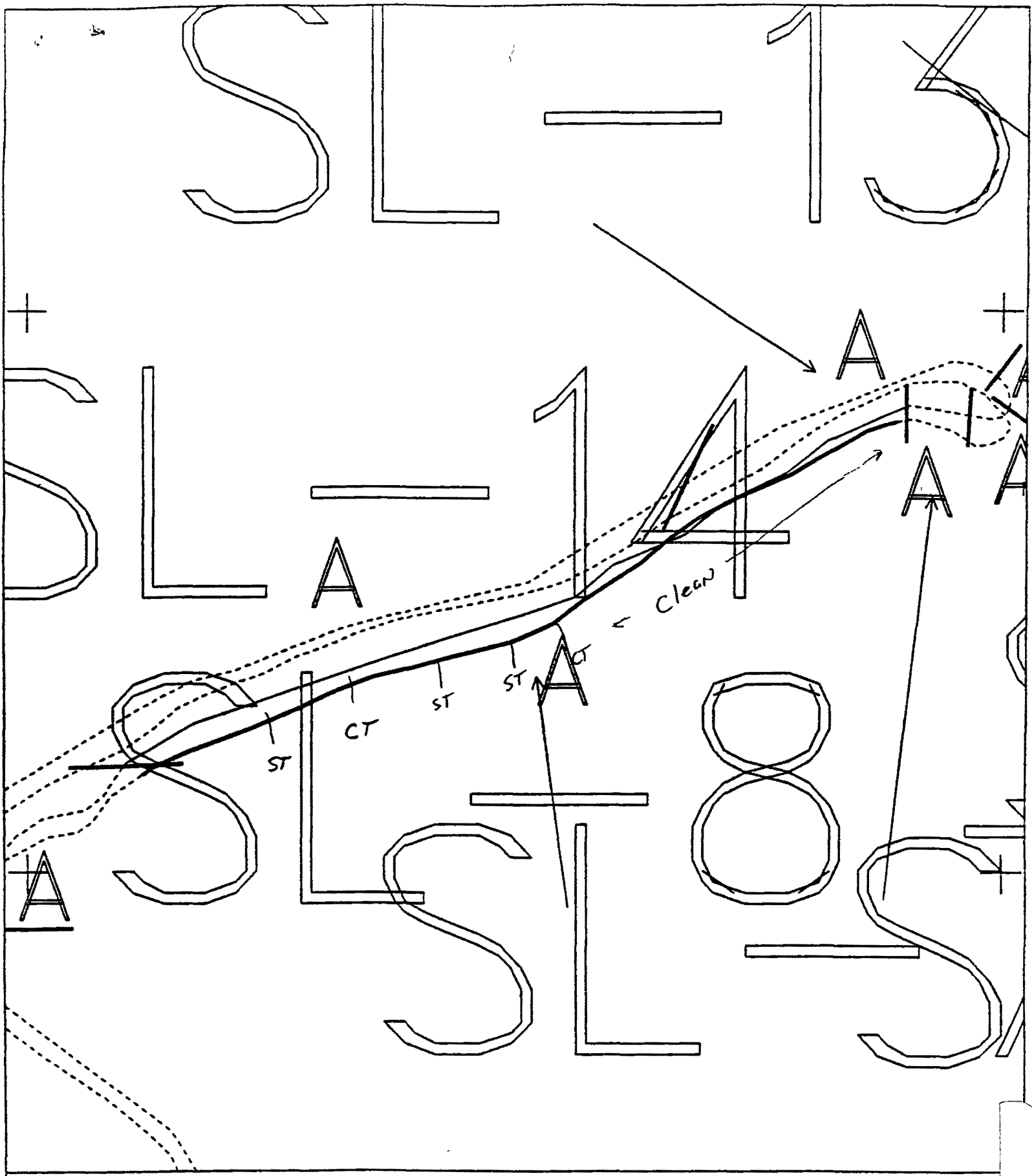
SITE #1

- Mostly clean
- short sites of CT-ST/S separated by clean ones
- Along the UFTZ to SUTZ on cobbles + boulders on the lagoon side
- Photo # 9

ACE 1852589

Character Length (m): AP 0 PO 0 CV 0 CT 1164 ST 0 MS 1164 PT 0 TB 0 FL 0 NO 0

REVISED 8/23/90



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

K6-34 SL-7 A

ADEC Subsegment Length: 1123m

METERS

0 171 342

AK State Plane Zone 4 1:6738

EXXON

Subdivision Field Map

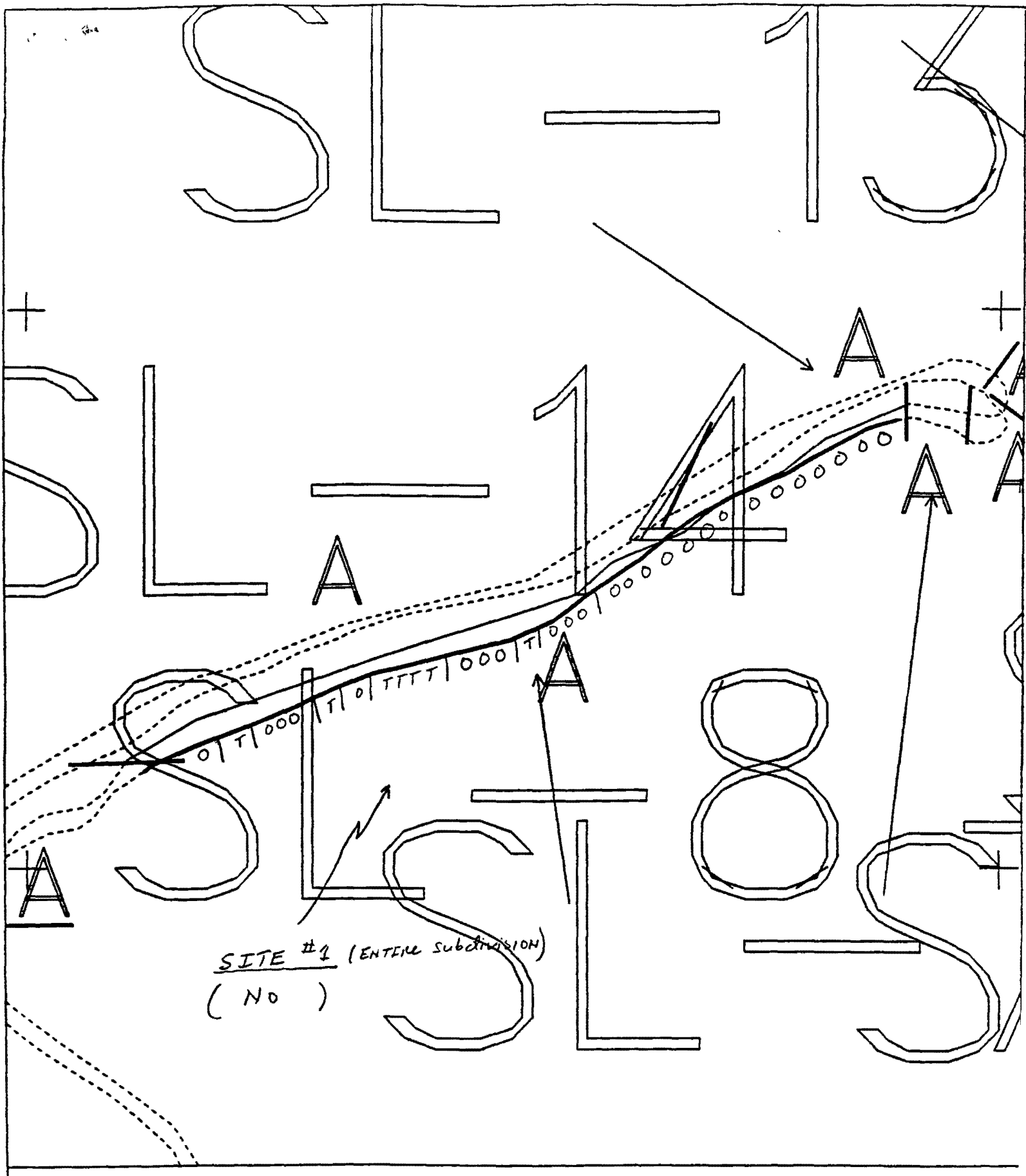
Map Key: KODK6-34SL-7A

Name: D Fitzgerald

Date: 13 August 90

Data Entered:

ACE 1852590



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

K6-34 SL-7 A

ADEC Subsegment Length: 1123m

METERS

0 171 342

AK State Plane Zone 4 1:8738

EXXON

Subdivision Field Map

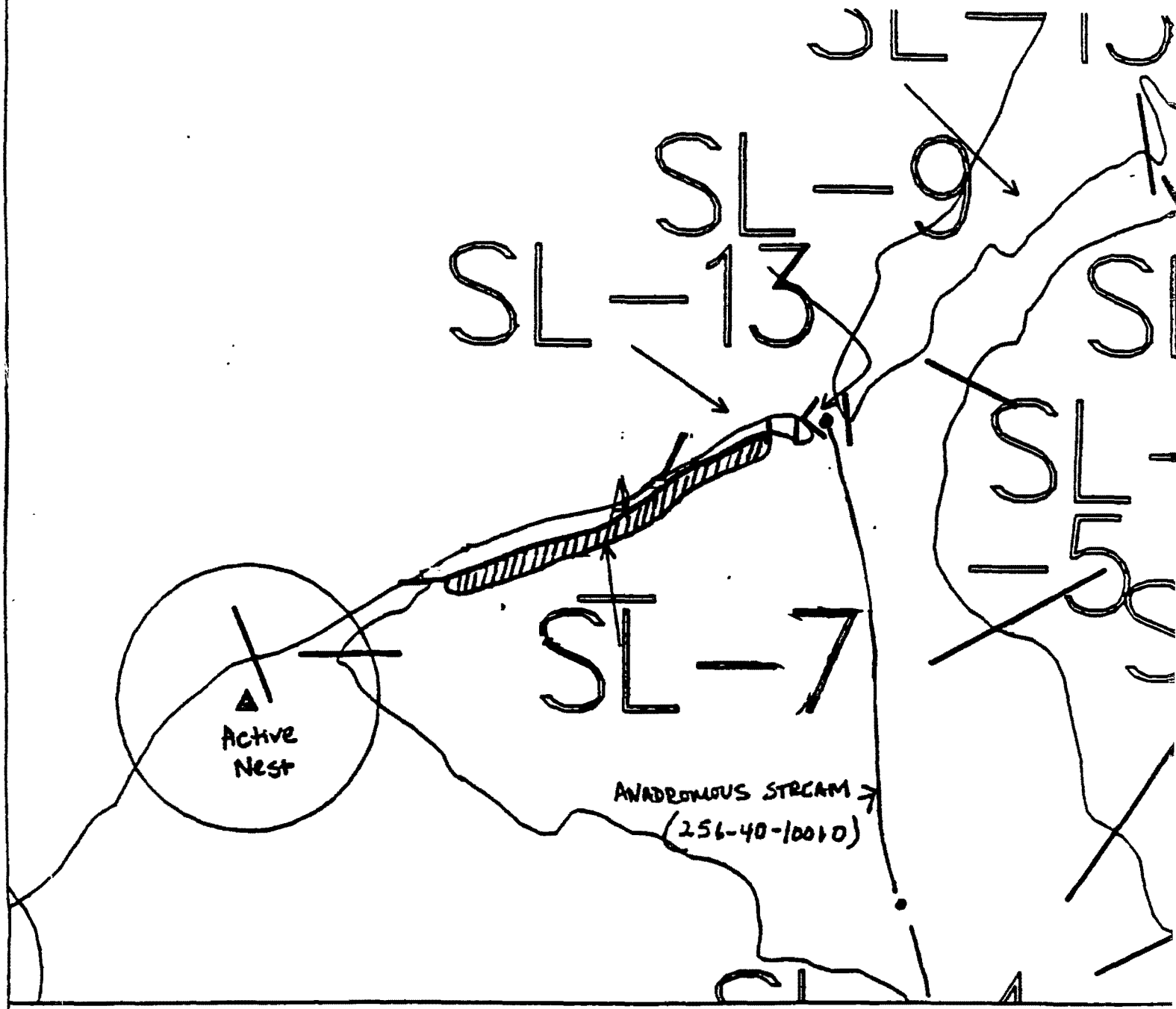
Map Key: KODK6-34SL-7A

Name: D. Fitzgerald

ACE 1852591

Date: 13 Aug 1990

Data Entered:



EXXON

Exxon Company, USA
Map Key: KOO-SL-7

ECOLOGY MAP
SEGMENT SL-7
SUBDIVISION A (1 of 1)

METERS

★ Seabird Colony
▲ Eagle Nest

ACE 1852592 JS/C/FF

K6-34 SL-03 AFS 256-40-10010 (3)
Sturgeon River 1990

ACE 18525304

'90 Cleanup

ASC NUMBER:
SEGMENT NUMBER: SL-03
YR CATALOGED:
LOCATION:
STREAM NAME: Sturgeon Lagoon
LATITUDE:
KODIAK K-UNIT:
LOCAL STREAM #:
LONGITUDE:
USGS QUADRANGLE:
LEGAL:
SHORELINE TYPE: Lagoon
WAVE EXPOSURE: Low

ASC NUMBER: 256-40-10010 (3)
SURVEY TYPE: CL
METHOD: Foot
DATE: 6/30/91
START TIME: N/A
STOP TIME: N/A
Total Time .66 hours.

TEAM RECORDER: JEFF BARNHART
OBSERVERS: F. Byars. Greg Harbold, J. Reed

AGENCY(IES): ADF&G, Exxon, USCG, ADEC.

PHOTOS TAKEN? N
Roll #: Frames:
VIDEO TAKEN? N Tape Number:
Counter Start:

SAMPLES TAKEN? N
SAMPLE I.D. NUMBERS: 1. 2. 3.
4. 5. 6.

OILING DATA

	LENGTH	WIDTH	M2	%	THICK	PEN	OIL TYPE
SITE 1	N/A						
SITE 2							
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT: VL

OIL IN STREAM CHANNEL? Y

SUBSTRATE

Bedrock		Granule	
Boulder	N/A	Sand	
Cobble		Silt	
Pebble		Veget.	

OIL ON BEACH WITHIN 50M OF STREAM MOUTH? N/A

SPECIES	N/A				
COUNT	N/A				

COMMENTS: This segment was surveyed by SSAT on 4-4-90 without representation of ADF&G Habitat Division. Oiled boom noted by SSAT as being located in segment SL-17 was located by cleanup monitors in Segment SL-03
Removed 20 foot section of oiled pom pom boom, oil cleanup debris, 20 feet of unoiled pom pom boom, and a few small Tar balls amounting to 250 pounds

STATE OF ALASKA

DEPARTMENT OF FISH AND GAME

STEVE COWPER, GOVERNOR

Rapifax 349-1723

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

RAPIFAX TRANSMITTAL SHEET

TO: Ken Middleton
ADF&G Habitat Anch.

DATE: 6/18/90

No. Pages: 2
(including this page)

FROM: T. Barnhart
ADF&G Kodiak

MESSAGE:

W/O from our Files: for Sturgeon lagoon.
SL-07.

I spoke To Fran who was on the M/V Sea Trader
I have some interesting info.

J

ALASKA DEPT. OF
FISH & GAME

JUN 18 1990

REGION II
HABITAT DIVISION

SHORELINE EVALUATION

SEGMENT ST/ K06-34-SL-07 SUBDIVISION A (1 OF 1) DATE 4/7/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:
Salmon stream mouth no. 256-40-10010.
Salmon stream outmigration (1A) - 3/1 to 3/15 and spawning (1B) - 7/10 to 8/31. No disturbance of stream bed or banks unless authorized by ADF&G. Contact ADF&G Habitat Division prior to treatment for permits.
Sensitive estuary (8AA).

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). required prior

SHPO SIGNATURE: Charles E. Holmes DATE: 4/17/90

OILING CATEGORIZATION:
Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 112.5 m²: No Oil 0 m
Subsurface Oil Observed: Yes ___ No X Maximum Depth ___

RECOMMENDATIONS:

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

COMMENTS:

TAG COMMENTS:
DUE TO THE ENVIRONMENTAL SENSITIVITIES AND RESOURCE USE MANUAL PICK UP OF MOUSSE PATTIES REQUIRED.

TAG APPROVAL DATE: 4/14/90.
ADEC Art Weiner
EXXON Rudy Tate
NOAA
USCG G.A. Reiter

FOSC: DATE: 5-1-90

EVOS CLEANUP MONITORING, 1990.

REGION: Kodiak

K-UNIT: k06-34

SEGMENT: SL-03

LOCATION: Sturgeon Lagoon

STREAM NAME: Sturgeon River

ANAD-STREAM CAT.#: 256-40-10010

ANAD. FISH STREAM PERMIT ISSUED: 6/30/90

DATE(S) WORKED: 6/30/90

SQUAD #: 9 Helo

SQUAD SIZE: 6

NUMBER OF BAGS collected: 8

POUNDS OF OIL/OILED SEDIMENT REMOVED: 250 (6 bags + 1 jar)

TREATMENT TECHNIQUES: MANUAL REMOVAL X BIOREMEDIATION

OTHER

DEMOB DATE: 6/30/90

OIL SAMPLE #: N/A

OIL TYPE: TB

SUBSTRATE TYPE: N/A

REPRESENTATIVES

EXXON: Fred Byers

USCG: Greg Harold

DEC: Randy (John) Reed

NPS: N/A

USF&WS: N/A

ADF&G: Jeff Barnhart

OTHER:

HOURS WORKED: .66

TOTAL MAN HOURS worked: 4.0

Work order Issued 4-20-90

OIL BANDS

L	W	D	m^2	% oil cover	V
L	W	D	m^2	% oil cover	V
L	W	D	m^2	% oil cover	V
L	W	D	m^2	% oil cover	V
L	W	D	m^2	% oil cover	V

PHOTOLOG

Roll #	FRAME #	DESCRIPTION
N/A		

ACE 1852531+1S1FF

PROBLEMS: This segment was surveyed by SSAT on 4-4-90 without representation of ADF+G Habitat Division. Oiled boom noted by SSAT as being located in Segment SL-17 was located by cleanup monitors in Segment SL-03.

OBSERVATIONS: Removed 20' section of oiled pom pom boom, oil cleanup debris, 20' unoiled pom pom boom, and a few small Tar balls.

SIGNED: Jeffrey Bernhart

ACE 1852532-IS

Sturgeon Lagoon 6/30/98 GPB.

oxygen can reach the oil. There is an expansive Eel grass bed adjoining the cobble beach. I suggest no additional cleanup & no bioremediation. Salmon carcasses will provide the nutrients in this low energy environment necessary for biodegradation

walked SL1 SL2 SL3

SL3- oiled boom (pom poms) & clean debris 1 Tarball

SL2- oiled Pom poms & clean debris 2 Tarballs

Start 1610 See Final summary next page as to what we removed.

Stop work 1630 pm

Found 4 or 5 Tar balls up to 6" dia. at end of segment # 2 to retain 4 to 5 bags empty from that area.

Depart apprx 6:07 pm. 509EH. We were supposed to stop & pick up the oiled boom in SL17 w/ this helicopter. They (pilots) departed Lagoon w/out stopping. They shut the communications off to my head set (but not before they started talking about Bill GPB) Also After we loaded the bags of debris into the helicopter the pilot said we could not carry them because they blocked the door. Told Bill (Foreman) we could put them in Tail boom but there is no space in there either. We had six bags, we only brought 4 and back in with us. Bill and crew with exception of Todd (he was with us) were left remaining on the beach w/out a helicopter as 511 went to Karluk to

ACE 1852533+15

6/30/90 JPB

refuel.

Land Kodiak 6:55 pm.
work on Tomorrows schedule with Fred, Tommie (Sea Trader) USFWS, DNR, DEC + Coast Guard.
will Depart 11:30 Am. Boat crew will work on Big Fort creek. Helo crew on Red Fox creek/Lagoon. Debriefing. Draft of Todays work effort. Done 9:30 pm
Personnel on Flight: FRED BYARS (Exxon)
Randy Reed (ADEC) GREG Haidd (USCG)
Mike Goodwin (DNR) and myself.

SL003 Found heavy oiled boom 20' in length partially buried and 20' of unoiled boom, plus cleanup debris. A few small Tar balls [8 bags of boom + oiled debris.]
SL002 Removed approx 1 gallon of Tarballs, unoiled boom, cleanup debris [3 bags + boom TOTAL]
SL001 - 3 TB plus oiled debris [2 bags TOTAL]

Fred Byars spoke To Tommie Tomblin at approx 8:00 pm Today. He Told Fred They took five buckets of oiled material from SL07 on 6/12/90

ACE 1852534-45

STATE OF ALASKA

DEPARTMENT OF FISH AND GAME

STEVE COWPER, GOVERNOR

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

EXXON Valdez Oilspill Cleanup

Anadromous Fish Stream Authorization

Date 6/30/90

EXXON Authorized Representative Fred BYARS

Shoreline Segment K06-34-SL03

Anadromous Fish Stream Number(s) 256-40-10010

Sturgeon River, Kodiak Island

Approved Cleanup Techniques Manual pickup of mousse and oiled Trash

Approved Cleanup Period 6/30/90 - 7/10/90

Alaska Department of Fish and Game

Jeffrey L Bernhart
Authorized Officer

Fred D. Byars
Permittee's Signature

ACE 1852535

STATUS OF OPEN WORK AREAS

SQUAD 9 – HELICOPTER

DATE OF WORK: 6/30/90 WORK HOURS: START 0830 TO: 2000

MANUAL AND MECHANICAL OPERATIONS

Segment	Sub Div	Date Work Started	Date Demob Approved *	WORK STATUS: Manual Pickup	Tarmat Asphalt Removal	Spot Wash	Tilling /Raking	Bio	Anad Streams	Other Describe
K6-34SL1	A	6/30/90	6/30/90	100%						
K6-34SL2	A	6/30/90	6/30/90	100%						
K6-34SL3	A	6/30/90	6/30/90	100%						
K6-34SL8	A	6/30/90	6/30/90	—						
K6-34SL17	A	6/30/90	6/30/90	—						

DAILY QUANTITIES: # of Supers f Supersac Oiled Mat'l	Oiled Sediments	Square Meters Washed	Granular Bio: Lin Mtrs Covered	Sq Mtr Covered	Lbs Used	Corde Wood Burned
.12	.					
.08						
.05						
0						
0						

SEGMENT	SUB DIV	DEMOB DATE	DEMOBILIZATION ACKNOWLEDGMENT: USCG	ADEC	EXXON
K6-34SL1	A	6/30/90		John R. Reed	Fred Byers
K6-34SL2	A	6/30/90		John R. Reed	Fred Byers
K6-34SL3	A	6/30/90		John R Reed	Fred Byers
K6-34SL8	A	6/30/90		John R Reed	Fred Byers
K6-34SL17	A	6/30/90		John R. Reed	Fred Byers

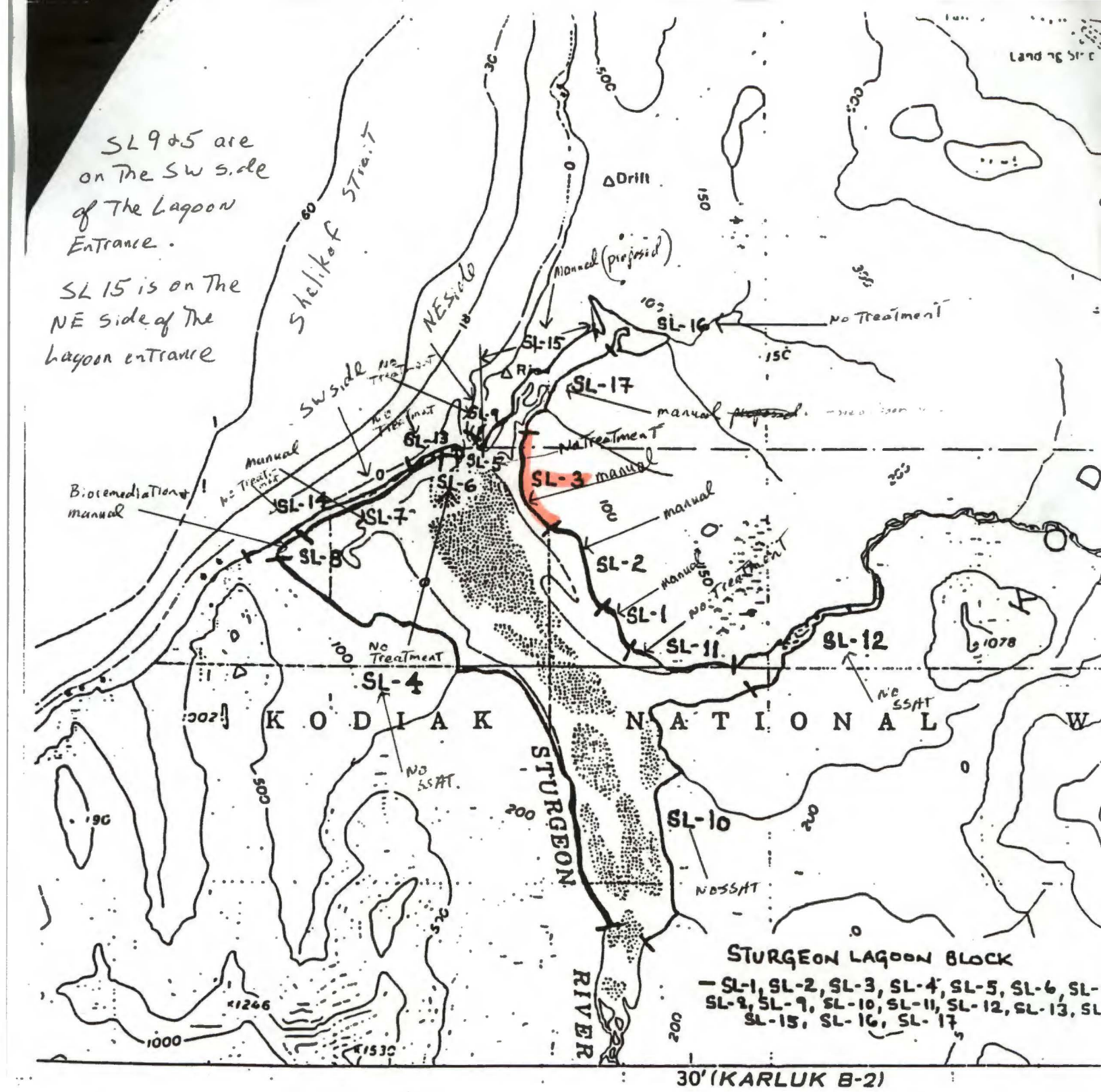
* The date that the Manual/Mechanical portion of the Work Order has been completed and acknowledged. A separate acknowledgement will be made for the Bioremediation portion of the Work Order.

** 1 Supersack = 45 CF, report in tenths of sack (ie. 0.1)

STATUS CODES

- NA Not Applicable/Recommended for this segment division
- N Recommended but not started
- W Started and Working
- #% Percentage complete (used on large work scopes)
- C Work complete

ACE 1852536



SCALE 1:63360

3000 0 3000 6000 9000 12000 15000 18000

22° MAGNETIC NORTH

ATE MEAN
ON. 1952

CONTOUR INTERVAL 100 FEET
DASHED LINES REPRESENT 50 FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929
DEPTH CURVES IN FEET – DATUM IS MEAN LOWER LOW WATER
SHORELINE SHOWN REPRESENTS THE APPROXIMATE LINE OF MEAN HIGH WATER
THE AVERAGE RANGE OF TIDE IS APPROXIMATELY 11 FEET

ACE 1852537

Fieldcopy

SHORELINE EVALUATION

SEGMENT ST/K06-34-SL-03 SUBDIVISION A (1 OF 1) DATE 4/7/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:
Salmon stream mouth no. ASC #256-40, #10010
1A Salmon stream outmigration (4/15 to 7/31)
1B Salmon spawning (7/15 to 9/10; PEAK 8/15)
8AA Sensitive Estuary
No disturbance of stream beds or banks unless authorized by ADF&G. Contact ADF&G Habitat Division prior to treatment for permits.

SUBDIVISION ECOLOGICAL CONSTRAINTS:
Avoid disturbance/damage to unoiled substrate and biota. 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 E Holmes DATE: 4/17/90

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 21 m: No Oil 839 m
Subsurface Oil Observed: Yes____ No X Maximum Depth_____

RECOMMENDATIONS:

_____No Treatment Recommended	_____Snare/Absorbent Booms
_X_Treatment Recommended	_____Oil Snares (pom poms)
_X_Manual Pickup	_____Absorbents (pads,rolls,etc)
_____Bioremediation	_____Spot Washing:_____Wands
_____Tarmat: _____Breakup	_____ Beach Cleaner
_____Removal	_____Other (see comments)

COMMENTS: Recommend manual pick up of mousse and oiled trash. Work should be conducted before 7/10, per above constraints.

TAG COMMENTS:

TAG APPROVAL DATE: 4/16/90
ADEC [illegible]
EXXON ANDY TOLL FOSC: _____ DATE: 4-20-90
NOAA Burl Wescott Burl Wescott
USCG G.A. REITER G.A. Reiter

ACE 1852538+15

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / Kod 34 · SL · 3 SUBDIVISION: KL-34-SL-3A DATE 4-4-90

USCG
NAME D.D. Haven Jr. GM3, USCGR SIGNATURE D.D. Haven Jr.

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED
COMMENTS

Mousse is not present in quantities that warrant treatment, but mousse is no weathering in this low energy very rapidly; so I recommend treatment (low priorit small scale) due to the lack of weathering of the oil.

ADEC
NAME Francine J. Bennis SIGNATURE Francine J. Bennis

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED
COMMENTS

Walked entire segment. A small band of mousse patties/MS=saturated sediment discontinuous in northern portion of segment, just below cabin.
A small-scale manual pick-up of is recommended. This oil has remained static over the winter & is likely to persist for some time if not removed.
SSAT Field maps should accompany clean-up crew.

LAND MANAGER
NAME JOHN P. HARDLSTER SIGNATURE John P. Hardlster USFWS

~~☐ NO TREATMENT RECOMMENDED~~ ~~☒ TREATMENT SUGGESTED~~
COMMENTS

Concur with comments of ADEC representative. Observation of mousse patties disclosed a weathered condition that indicates their placement over-winter. Consideration for removal is warranted.

John Merrick John Merrick Koniag, Inc.

If a clean up effort is made this summer this area should be

REVISION NO. 03-21-90

ACE 1852539

OG Acton

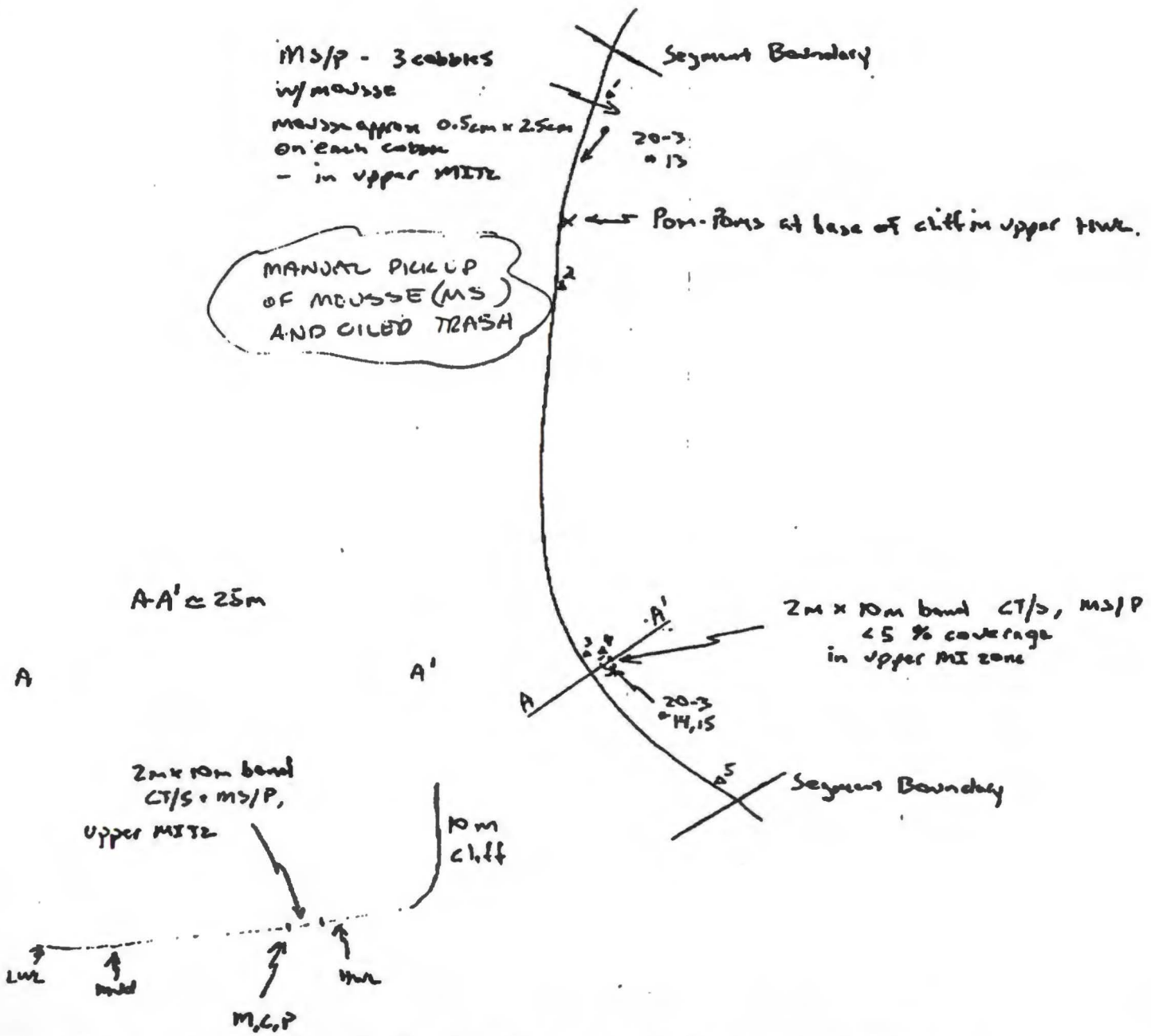
SEGMENT ST/ KL-34-SL-3

SUBDIVISION KL-34-SL-3A

DATE 4 / 4 90

SKETCH MAP

Approx Scale
1cm ≃ 50m



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

Photo location, direction, and number

Oil Character Length (m): AP 0 PO 0 CV 0 CT 25 ST 0 MS 25 PT 0 TB 0 FL 0 NO 779

REVISION: 10/24/90

ACE 1852540
-S

FROM: Fred BYARS
TO: VESSEL COMMAND NETWORK
FAX No: (907) 266-6490

OPERATIONS DAILY REPORT
SQUAD 9 – SEATRADER/HELICOPTER

DATE OF WORK: 6/30/90 WORK HOURS: START 0830 TO: 2000

WEATHER CONDITIONS: Wind Speed (Knts) ____ Wave Height(Ft) ____ GENERAL ____
TIDES: HIGH ____ Time ____ HIGH ____ Time ____
LOW ____ Time ____ LOW ____ Time ____
GENERAL LOCATION: ____

SAFETY INCIDENTS	For Day
Fatality	
Lost Time	
Restricted	
Medical Treatment	
Total Recordable	

(Transmit Details Separately)

SCHEDULED WORK DAY HOURS (ex Break) =	Vessel 12	Helo 12
Working		
Weather Downtime		4
Transit Time		2
Mechanical Downtime		2
Other:		

VESSEL REPRESENTATIVES NAMES
ADEC ____
Exxon ____
USCG ____
OOPS ____
Other ____

HELICOPTER REPRESENTATIVES NAMES
ADEC Randy Reed
Exxon Fred BYARS
USCG Craig Harold
Other Mike Goodwin ADN
Jeff Barnhart ADFG

MANPOWER AND BILLETING STATUS (# of People)

Berthing Vessel	PAX * Beds	Exxon Reps	OOPS	Agency Reps	Other	Beach Wkrs Wkg	Beach Wkrs Idle	Open Beds
Sea Trader	16							

Helicopter # of Workers
6

* COI Passenger Beds (Includes Service Personnel)

	Boat Crews
Berthing Vessels	
LCV/Production	
Work Boats	
TOTALS	

Helicopter Tail #'s
509 EH
511 EH
Work Areas
BK6-34 SL 1,2
3, 8, 17

VESSEL STATUS (# of Vessels)

Vessel Type	Total Asignd	In Transit	Total Working	Not Used	Mech Down	Weath Down
Berthing						
LCV/Production						
Work Boat						
TOTALS						

VESSELS ASSIGNED:

Vessel Name	Vessel Type	# People Berthed
Sea Trader	Berthing	

NEXT SQUAD MOVE: LOCATION KD112 55009 DATE OF MOVE 7/1/90

DATE OF LAST CREW CHANGE ____ SCHEDULED DATE FOR NEXT CREW CHANGE ____
PORT FOR CREW CHANGE ____ PORT FOR CREW CHANGE ____

VISITORS (Name/Affiliation) ____

STATUS OF SUPPLIES/STORAGE CAPACITIES: ____

NUMBER OILED/DEAD BIRDS FOUND ____ # Alive NUMBER OILED/DEAD MAMMALS FOUND ____ # Alive ____
OTHER* ____

* Such as discovery of dead oiled birds/mammals, Archeological Artifacts, Wildlife incidents, etc.

KG-34 ASAP.

SEGMENT AS/ SC-03 SUBDIVISION: A SITE: 1 of 2 DATE 13 Aug 90

JSCG

NAME J. Schulz SIGNATURE Jerry Schultz

☐ YES ☒ NO PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

ADEC

NAME F. Bennis SIGNATURE

☐ YES ☒ NO PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

No oil observed, but a layer of fine (~10cm) sediments has been deposited in MITE where SSAT observed mousse patties

LAND MANAGER

NAME J. Merrick SIGNATURE John Merrick

☐ YES ☒ NO PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

EXXON

NAME T. Tomblin SIGNATURE

☐ YES ☒ NO PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

NO OIL OBSERVED

REVISION NO. 7/26/90

ACE 1852542+S

KG-34

SEGMENT AS/ SL-03 SUBDIVISION: A SITE: 2of2 DATE 13 Aug 90

USCG

NAME J. Schultz SIGNATURE Jerry Schultz

☐ YES ☒ NO PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

ADEC

NAME F. Bennis SIGNATURE

☐ YES ☒ NO PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

LAND MANAGER

NAME J. Merrick SIGNATURE John Merrick

☐ YES ☑ NO PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

EXXON

NAME T. Tomblin SIGNATURE

☐ YES ☒ NO PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

REVISION NO. 7/26/90

ACE 1852543

ASAP SHORELINE OILING SUMMARY

PAGE 1 OF

TEAM NO. Kodiak #5 EXXON J Tomblin SEGMENT AS SL-03
OG O. FitzGerald USCG J. Schulte SUBDIVISION A
ADEC F Bennis LAND REP John Merrick TOTAL NO. SITES 2
DATE 13 / Aug / 90 TIME 16:15 to 16:40 TIDE LEVEL 300 to 330 cm ABOVE MLL
TOTAL EST LENGTH OF SHORELINE SURVEYED: 200 m
SURVEYED FROM: ☑ Foot ☐ Boat ☐ Helo WEATHER: ☑ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ S
OIL CATEGORY LENGTH: W ___ m M ___ m N ___ m VL ___ m NO 250 m US ___ m

SURFACE OIL

CHARACTER	SITE 1 DISTRIBUTION /C	/B	/P	/S	SITE 1 OILED ZONES SU	UI	MI	LI	SITE 2 DISTRIBUTION /C	/B	/P	/S	SITE 2 OILED ZONES SU	UI	MI	LI	SITE 3 DISTRIBUTION /C	/B	/P	/S	SITE 3 OILED ZONES SU	UI	MI	LI
ASPHALT																								
S.O.R.																								
POOLED																								
COVER																								
COAT																								
STAIN																								
MOUSSE																								
PATTIES/T.B.																								
FILM																								
NO OIL					X	X	X	X					X	X	X	X								
EST. SITE LENGTH					100								150											

SUBSURFACE OIL

SITE NO.	PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER OP	OR	OF	NO	OILED INTERVAL (CM-CM)	CLEAN BELOW (Y/N)	PIT ZONE SU	UI	MI	LI	SURFACE-SUBSURFACE SEDIMENTS
							-						
							-						
							-						
							-						
							-						
							-						
							-						
							-						
							-						
							-						
							-						
							-						

Photographs:
Roll No. ASAP-06-05
Frames #10-12

COMMENTS The two sites surveyed in this subdivision had only one mousse pattie (high weathered) and this was removed by the ASAP crew.

ACE 1852544

REVISION N

SEGMENT K6-34 SL-3 Segment Location Map

EXXON

N

METERS

0 116 231

Map Key: KODK6-34SL-3

ACE 1852545

July 18, 1990

1:4551

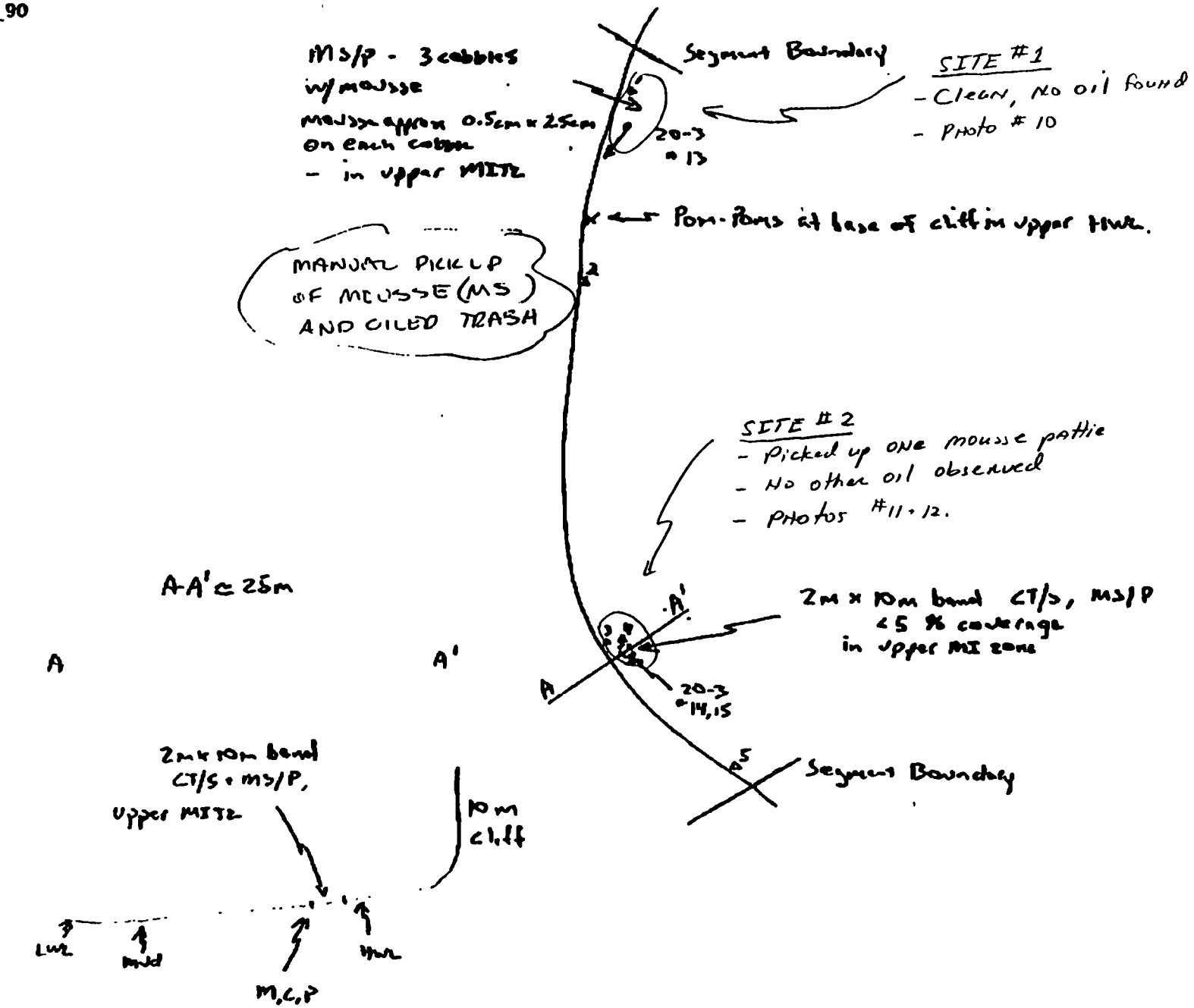
SEGMENT ST/ KG-34-SL-3

SUBDIVISION KG-34-SL-3A

DATE 4 / 4 90

SKETCH MAP

Approx Scale
1cm ≃ 50m



CHECKLIST

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

Oiled Vegetation

Photo location, direction, and number

Oil Character Length (m): AP ○ PO ○ CV ○ CT 25 ST ○ MS 25 PT ○ TB ○ FL ○ NO 779

REVISION: 03/24/89

ACE 1852546

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

K6-34 SL-3 A

ADEC Subsegment Length: 860m

METERS

0 116 231

AK State Plane Zone 4 1:4551

EXXON

Subdivision Field Map

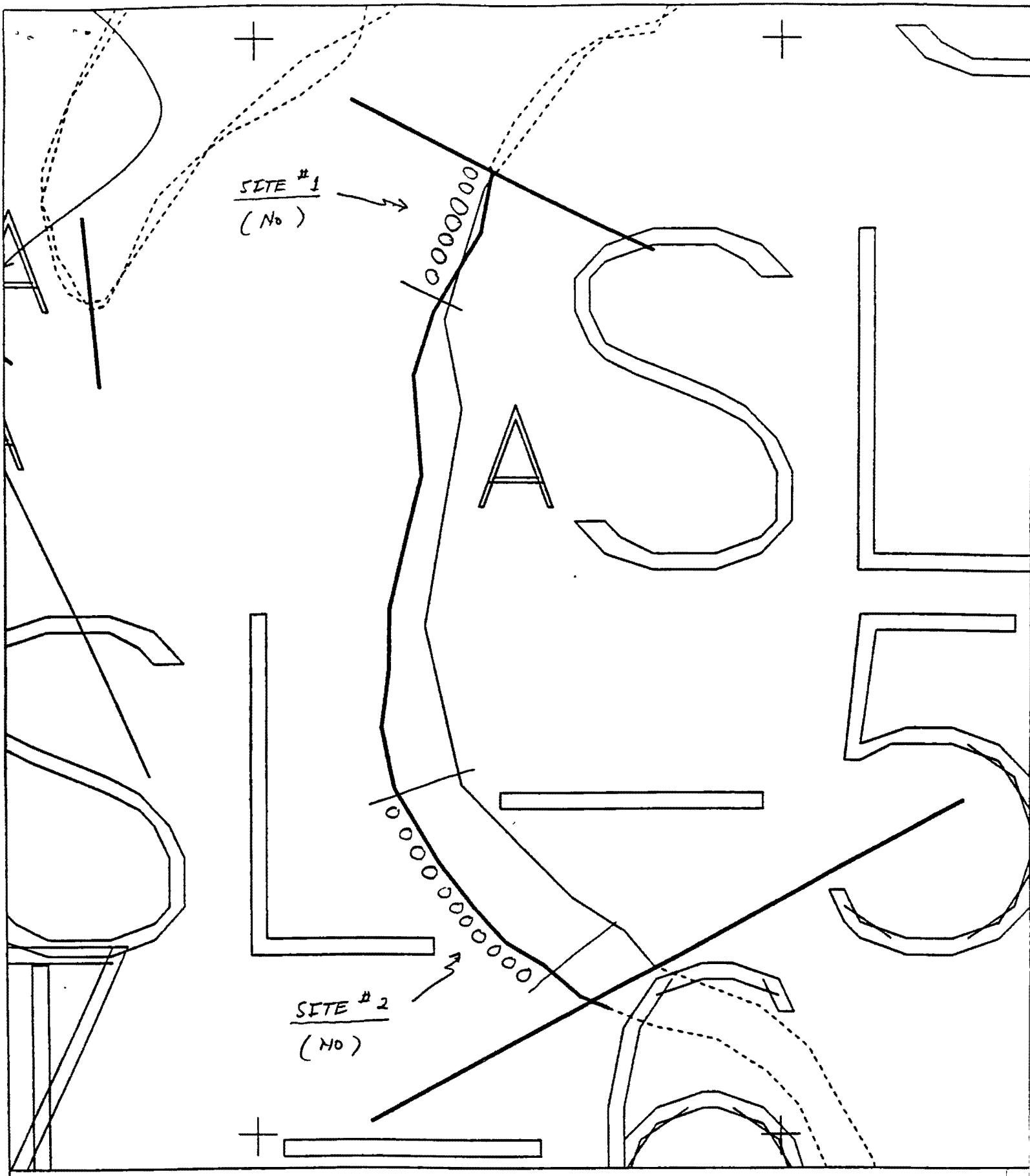
Map Key: KODK6-34SL-3A

Name: O FitzGerald

Date: 13 Aug 1990

Data Entered:

ACE 1852547



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

K6-34 SL-3 A

ADEC Subsegment Length: 860m

METERS

0 116 231

AK State Plane Zone 4 1:4551

EXXON

Subdivision Field Map

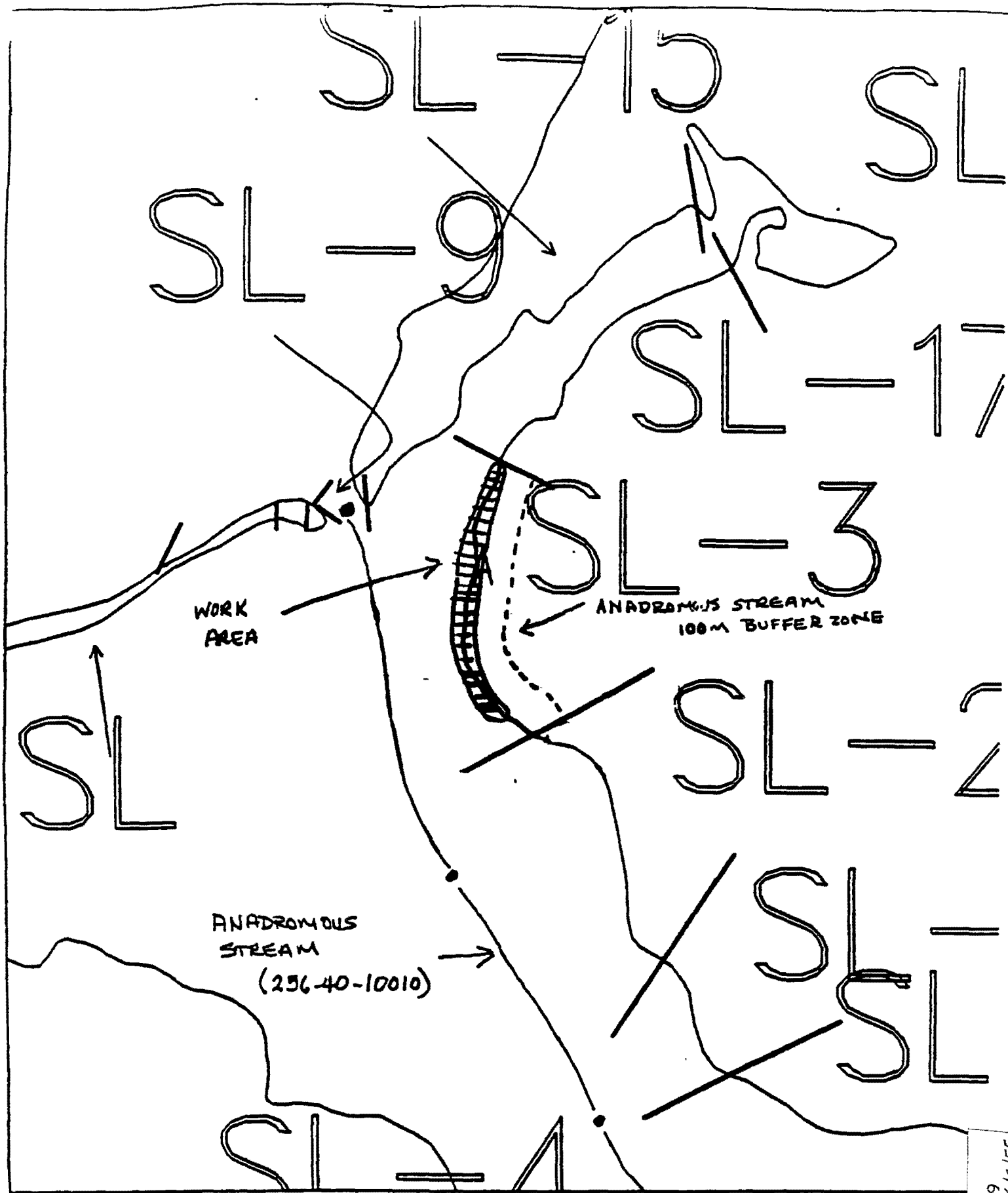
Map Key: KODK6-34SL-3A

Name: D. FitzGerald

Date: 13 Aug 1990

Data Entered:

ACE 1852548



EXXON

Exxon Company, USA

ECOLOGY MAP

SEGMENT SL-3

SUBDIVISION A (1 of 1)

METERS

★ Seabird Colony

▲ Eagle Nest

ACE 1852549
-15/C/FF

K6-34 SL-09 AFS 256-40-10010 (2)
Sturgeon River 1990

ACE 1852498 T/C

'90 Cleanup

ASC NUMBER:
SEGMENT NUMBER: SL-02
YR CATALOGED:
LOCATION:
STREAM NAME: Sturgeon Lagoon
LATITUDE:
KODIAK K-UNIT:
LOCAL STREAM #:
LONGITUDE:
USGS QUADRANGLE:
LEGAL:
SHORELINE TYPE: Lagoon
WAVE EXPOSURE: Low

ASC NUMBER: 256-46-10010 (2)
SURVEY TYPE: CL
METHOD: Foot
DATE: 6/30/90
START TIME: N/A Total Time .66 hours
STOP TIME: N/A

TEAM RECORDER: JEFF BARNHART
OBSERVERS: G. Harold, J. Reed, F. Byars

AGENCY(IES): ADF&G, USCG, ADEC, Exxon.

PHOTOS TAKEN? N
Roll #: Frames:
VIDEO TAKEN? N Tape Number:
Counter Start:

SAMPLES TAKEN? N
SAMPLE I.D. NUMBERS: 1. 2. 3.
4. 5. 6.

OILING DATA

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

OVERALL OIL IMPACT: VL

OIL IN STREAM CHANNEL? Y

OIL ON BEACH WITHIN 50M OF STREAM MOUTH? N/A

SUBSTRATE

Bedrock		Granule	
Boulder	N/A	Sand	
Cobble		Silt	
Pebble		Veget.	

SPECIES					
COUNT					

COMMENTS: This segment was surveyed by SSAT on 4-4-90 without representation from ADF&G Habitat Division.

Very small amount of oil located in this segment. Removed one gallon of o.i. Removed unoiled pompom boom, misc cleanup debris and eight empty plastic oil cleanup bags all of which were located in the supratidal zone. Total weight of oil and debris removed was estimated to be 175 pounds.

EVOS CLEANUP MONITORING, 1990.

REGION: Kodiak

K-UNIT: K06-34

SEGMENT: SL-02

LOCATION: Sturgeon Lagoon

STREAM NAME: Sturgeon River

ANAD. STREAM CAT. #: 256-40-10010

ANAD. FISH STREAM PERMIT ISSUED: 6/30/90

DATE(S) WORKED: 6/30/90

SQUAD #: 9 Helo

SQUAD SIZE: 6

NUMBER OF BAGS collected: 6

POUNDS OF OIL/OILED SEDIMENT REMOVED: 1.35 (observations)

TREATMENT TECHNIQUES: MANUAL REMOVAL X BIOREMEDIATION

OTHER

DEMOB DATE: 6/30/90

OIL SAMPLE # N/A

OIL TYPE: TB/PT

SUBSTRATE TYPE: N/A

REPRESENTATIVES

EXXON: Fred Byers

USCG: Greg Harold

DEC: Randy (John) Reed

NPS: N/A

USF&WS: N/A

ADF&G: Jeff Barnhart

OTHER:

HOURS WORKED: .66

TOTAL MAN HOURS worked: 4.0

Workorder Issue 5-1-90

OIL BANDS

L	W	D	m^2	% oil cover	V
L	W	D	m^2	% oil cover	V
L	W	D	m^2	% oil cover	V
L	W	D	m^2	% oil cover	V
L	W	D	m^2	% oil cover	V

PHOTOLOG

Roll #	FRAME #	DESCRIPTION
N/A		

ACE 1852499 H6/FF

PROBLEMS: This segment was surveyed by SSAT on 4-4-90 without representation from ADF&G Habitat Division.

OBSERVATIONS: Very small amount of oil located in this segment. Removed one gallon of oil. Removed unoiled pom pom boom, misc cleanup debris and 8 empty plastic oil cleanup bags, all of which were in the supratidal zone.

SIGNED: Jeff Bernhart

Sturgeon Lagoon

6/30/90 GJB

oxygen can reach the oil. There is an expansive Eel grass bed adjoining the cobble beach. I suggest no additional cleanup no bioremediation. Salmon carcasses will provide the nutrients in the low energy environment necessary for biodegradation

walked SL1 SL2 SL3

SL3 - oiled boom (pom poms) + clean debris 1 Tarball.

SL2 - oiled pom poms + clean debris 3 Tarballs

1610 See Final summary, next page as to what was removed.

Shipwalk (view in

Found 4 or 5 Tarballs up to 6" dia. at

Redeployment #2 Recovered oiled bags

and, from that area.

Depart approx 6:07 pm. SOPEN. We were supposed to stop & pick up the oiled boom in SL17 w. the helicopter. They (pilots) departed Lagoon w/out stopping. They shut the communications off to my head set (but not before they started talking about Bill GJB) & also After we loaded the bags of debris into the helicopter the pilot said we could not carry them (Foreman) because they blocked the door. Told Bill we could put them in Tail boom but there is no space in there either. We had six bags. We only brought 4 and back in with us. Bill and crew with exception of Todd (he was with us) were left remaining on the beach w/out a helicopter as SII went to Karluk to

ACE 1852501+/S

6/30/90 GPB.

refuel.

Land Kodiak 6:55pm.
work on Tomorrows schedule with Fred, Tommie (Sea Trader) USFWS, DNR, DEC + Coast Guard.
will Depart 11:30 Am. Boat crew will work on Big Fort creek. Helo crew on Red Fox creek/Lagoon. Debriefing. Draft of Todays work effort. Done 9:30pm
Personnel on Flight: FRED BYARS (Exxon)
Randy Reed (ADEC) GREG Hadd (USCG)
Mike Goodwin (DNR) and myself.

SL003 Found heavy oiled boom 20' in length partially buried and 20' of unoiled boom, plus cleanup debris. A few small Tar balls [8 bags of boom + oiled debris.]
SL002 Removed approx 1 gallon of Tarballs, unoiled boom, cleanup debris [3 bags + boom Total]
SL001 - 3 TB plus oiled debris [2 bags Total]

Fred Byars spoke To Tommie Tomblin at appox 8:00 pm Today. He Told Fred They Took five buckets of oiled material from SL07 on 6/12/90

ACE 1852502-15

SL 9 & 5 are on The SW side of The Lagoon Entrance.
SL 15 is on The NE side of The Lagoon entrance
Shelikof Strait
SW side
NE side
Manual (proposed)
No Treatment
SL-15
SL-16
SL-17
SL-13
SL-5
SL-6
SL-14
SL-7
SL-8
SL-3
SL-2
SL-1
SL-11
SL-12
SL-4
SL-10
Bioremediation + manual
Manual
No Treatment
No SSHT
KODIAK NATIONAL
STURGEON RIVER
Drill
STURGEON LAGOON BLOCK
— SL-1, SL-2, SL-3, SL-4, SL-5, SL-6, SL-
SL-8, SL-9, SL-10, SL-11, SL-12, SL-13, SL
SL-15, SL-16, SL-17
30' (KARLUK B-2)
SCALE 1:63360
3000 0 3000 6000 9000 12000 15000 18000
MAGNETIC NORTH
CONTOUR INTERVAL 100 FEET
DASHED LINES REPRESENT 50 FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929
DEPTH CURVES IN FEET – DATUM IS MEAN LOWER LOW WATER
SHORELINE SHOWN REPRESENTS THE APPROXIMATE LINE OF MEAN HIGH WATER
THE AVERAGE RANGE OF TIDE IS APPROXIMATELY 11 FEET
ATE MEAN
ON. 1952

ACE 1852503

STATUS OF OPEN WORK AREAS

SQUAD 9 – HELICOPTER

DATE OF WORK: 6/30/90 WORK HOURS: START 0830 TO: 2000

MANUAL AND MECHANICAL OPERATIONS

Segment	Sub Div	Date Work Started	Date Demob Approved *	WORK STATUS: Manual Pickup	Tarmat Asphalt Removal	Spot Wash	Tilling /Raking	Bio	Anad Streams	Other Describe	DAILY QUANTITIES: # of Supers Oiled Matl	# of Supers Oiled Sediments	Square Meters Washed	Granular Bio: Lin Mtrs Covered	Granular Bio: Sq Mtr Covered	Granular Bio: Lbs Used	Cords Wood Burned
KG-34SL1	A	6/30/90	6/30/90	100%							.12	.					
KG-34SL2	A	6/30/90	6/30/90	100%							.08						
KG-34SL3	A	6/30/90	6/30/90	100%							.05						
KG-34SL8	A	6/30/90	6/30/90	—							0						
KG-34SL17	A	6/30/90	6/30/90	—							0						

SEGMENT	SUB DIV	DEMOB DATE	DEMOBILIZATION ACKNOWLEDGMENT: USCG	ADEC	EXXON
KG-34SL1	A	6/30/90		John R. Rad	Fred Byers
KG-34SL2	A	6/30/90		John R. Rad	Fred Byers
KG-34SL3	A	6/30/90		John R. Rad	Fred Byers
KG-34SL8	A	6/30/90		John R. Rad	Fred Byers
KG-34SL17	A	6/30/90		John R. Rad	Fred Byers

* The date that the Manual/Mechanical portion of the Work Order has been completed and acknowledged. A separate acknowledgement will be made for the Bioremediation portion of the Work Order.

** 1 Supersack = 45 CF, report in tenths of sack (ie. 0.1)

STATUS CODES

- NA Not Applicable/Recommended for this segment division
- N Recommended but not started
- W Started and Working
- #% Percentage complete (used on large work scopes)
- C Work complete

ACE 1852504

(3)

STATE OF ALASKA

DEPARTMENT OF FISH AND GAME

STEVE COWPER, GOVERNOR

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

EXXON Valdez Oilspill Cleanup

Anadromous Fish Stream Authorization

Date 6/30/90

EXXON Authorized Representative Fred BYARS

Shoreline Segment KOK-34-SL02

Anadromous Fish Stream Number(s) 256-40-10010

Sturgeon River, Kodiak Island

Approved Cleanup Techniques Manual pick up of mousse and oiled debris

Approved Cleanup Period 6/30/90 - 7/10/90

Alaska Department of Fish and Game

Jeffrey P Bernhart
Authorized Officer

Fred D. Byars
Permittee's Signature

ACE 1852505

Fieldcopy

SHORELINE EVALUATION

SEGMENT ST/ K06-34-SL-02 SUBDIVISION A (1 OF 1) DATE 4/7/90

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:
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: Marla E. Holmes DATE: April 14, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 428 m: No Oil 348 m
Subsurface Oil Observed: Yes ____ No X Maximum Depth ____

RECOMMENDATIONS:

____No Treatment Recommended	____Snare/Absorbent Booms
X Treatment Recommended	____Oil Snares (pom poms)
X Manual Pickup	____Absorbents (pads,rolls,etc)
____Bioremediation	____Spot Washing: ____Wands
____Tarmat: ____Breakup	____ Beach Cleaner
____Removal	____Other (see comments)

COMMENTS: Manual pick up of mousse and oiled debris. Work to be conducted before 7/10.

TAG COMMENTS:

TAG APPROVAL DATE: 4/14/90
ADEC AL KEIGLER
EXXON ANDY TEAL
NOAA Barl Wabnitz
USCG G.A. REITER G.A. Reiter

FOSC: ____ DATE: 5-1-90

ACE 1852506 +/S

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / KG-34 · SC·2 SUBDIVISION: KG-34-SL-2A DATE 4-4-90

USCG
NAME D.D. Haven Jr, LCMD, USCGR SIGNATURE D.D. Haven Jr

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED
COMMENTS

The amount of oil present does not justify the dedication of personnel for clean-up. The only reason I suggest treatment is due to the presence of clean up debri (pom-poms) that needs to be picked up. While there are workers out there, they may as well try to get some of the oil.

ADEC
NAME Francis J. Benoit SIGNATURE Francis J. Benoit

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED
COMMENTS

A small band of mousse patties/mousse saturated sediments (3m x 10m exists. Comments remain the same as those for SL·03:
A small-scale manual clean-up is recommended.
SSAT field map should accompany clean-up crew.
some pom-poms are present in vitz, + should be removed.

LAND MANAGER
NAME JOHN P. HARDISTER SIGNATURE John P. Hardister USFWS

~~☐ NO TREATMENT RECOMMENDED~~ ~~☒ TREATMENT SUGGESTED~~
COMMENTS

Concur with comments of both USCG and ADEC representatives.

John Merrick John Merrick Konigs, Inc

Concur with above recommendations

REVISION NO. 05/21/90

ACE 1852507

Acton

GMENT ST/ KL-3½-SL-2

BDIVISION KL-3½-SL-2A

TE 4 / 4 90

HECKLIST

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

GEND

1 △

No Subsurface Oil

2 ▲

Subsurface Oil

CT/C

CT/B

CT/P

CT/S

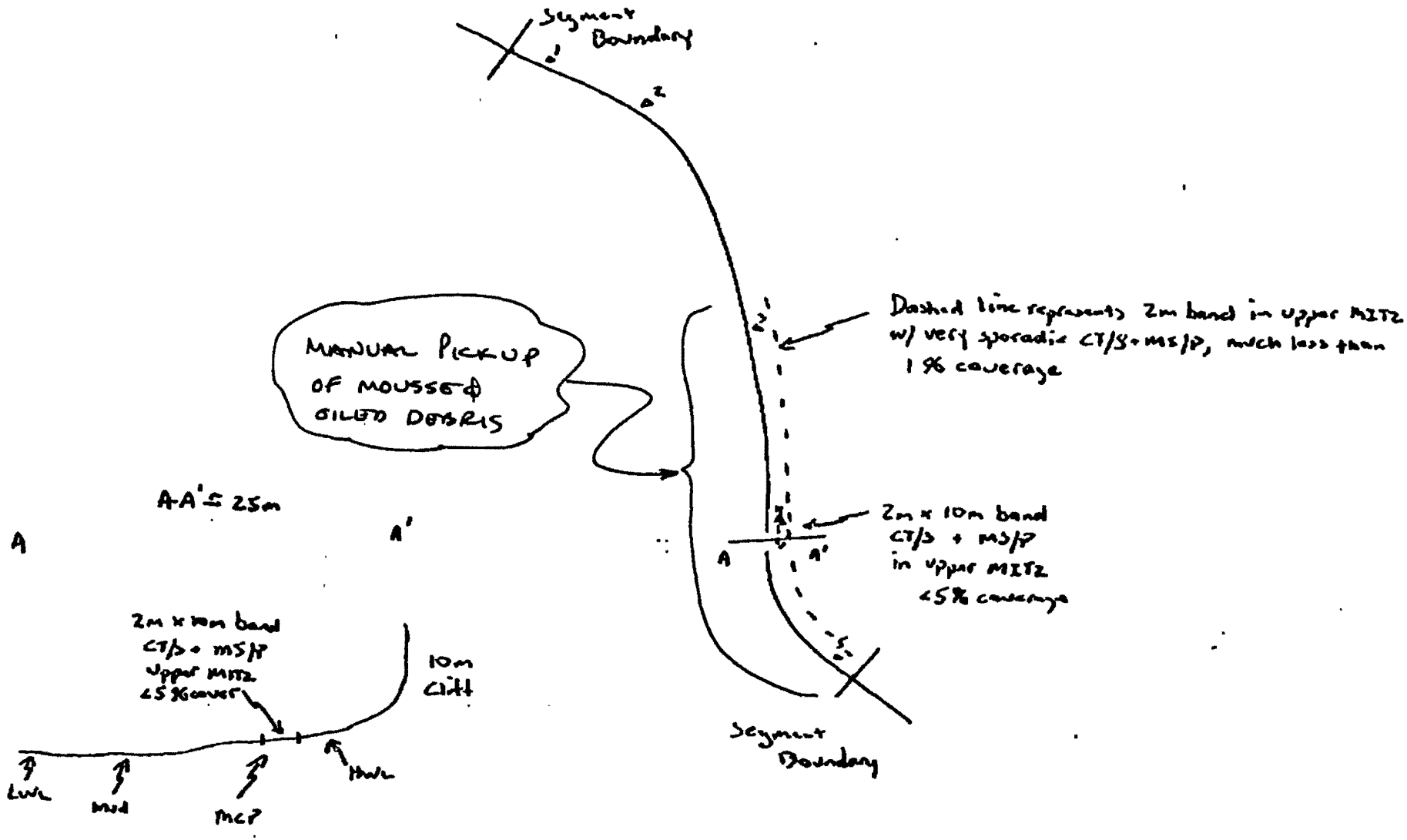
Vegetation

location, direction, number

SKETCH MAP

Approx Scale
1cm ≃ 50m

N ↑



ACE 1852508 -/S

Character Length (m): AP 0 PO 0 CV 0 CT 400 ST 0 MS 400 PT 0 TB 0 FL 0 NO 342

REVISION/DEVISE

JUN-25-1990 15:54 FROM EXXON OPERATIONS ANCH

FROM: Fred BYARS
TO: VESSEL COMMAND NETWORK
FAX No: (907) 266-6490

OPERATIONS DAILY REPORT
SQUAD 9 - SEATRADER/HELICOPTER

DATE OF WORK: 6/30/90 WORK HOURS: START 0830 TO: 2000

WEATHER CONDITIONS: Wind Speed (Knts) _____ Wave Height(Ft) _____ GENERAL _____
TIDES: HIGH _____ Time _____ HIGH _____ Time _____
LOW _____ Time _____ LOW _____ Time _____
GENERAL LOCATION: _____

SAFETY INCIDENTS	For Day
Fatality	
Lost Time	
Restricted	
Medical Treatment	
Total Recordable	

(Transmit Details Seperately)

SCHEDULED WORK DAY HOURS (ex Break) =	Vessel 12	Helo 12
Working		
Weather Downtime		4
Transit Time		2
Mechanical Downtime		2
Other:		

VESSEL REPRESENTATIVES NAMES
ADEC _____
Exxon _____
USCG _____
OOPS _____
Other _____

HELICOPTER REPRESENTATIVES NAMES
ADEC Randy Reed
Exxon Fred Byars
USCG Craig Harold
Other Mike Goodwin ADN
Jeff Barnhart ADFG

MANPOWER AND BILLETING STATUS (# of People)

Berthing Vessel	PAX * Beds	Exxon Reps	OOPS	Agency Reps	Other	Beach Wkrs Wkg	Beach Wkrs Idle	Open Beds
Sea Trader	16							

Helicopter # of Workers
6

* COI Passenger Beds (Includes Service Personnel)

	Boat Crews
Berthing Vessels	
LCV/Production	
Work Boats	
TOTALS	

Helicopter Tail #'s
509 EH
511 EH
Work Areas
SK6-34 SL 1,2
3, 8, 17

VESSEL STATUS (# of Vessels)

Vessel Type	Total Asignd	In Transit	Total Working	Not Used	Mech Down	Weath Down
Berthing						
LCV/Production						
Work Boat						
TOTALS						

VESSELS ASSIGNED:

Vessel Name	Vessel Type	# People Berthed
Sea Trader	Berthing	

NEXT SQUAD MOVE: LOCATION KD112 55009 DATE OF MOVE 7/1/90

DATE OF LAST CREW CHANGE _____ SCHEDULED DATE FOR NEXT CREW CHANGE _____
PORT FOR CREW CHANGE _____ PORT FOR CREW CHANGE _____

VISITORS (Name/Affiliation) _____

STATUS OF SUPPLIES/STORAGE CAPACITIES: _____

NUMBER OILED/DEAD BIRDS FOUND _____ # Alive NUMBER OILED/DEAD MAMMALS FOUND _____ # Alive _____
OTHER* _____

* Such as discovery of dead oiled birds/mammals, Archeological Artifacts, Wildlife incidents, etc.

ACE 1852509 -1C/FF

K6-34 SL-01 AFS 256-40-10010(1)
Sturgeon River 1990

ACE 18525107/C

ADF&G MULTI-ASSESSMENT FORM
1991 GENERAL ENTRY CHECKLIST

STREAM#: 2564010010(1)
SEGMENT: SL001

 DATE PRINTED: 07/25/91

LOCATION: KODIAK ISLAND, STURGEON LAG., N OF EAST STURGEON R

SURVEY TYPE: 90 CLEANUP METHOD: GROUND

DATE: 06/30/90 TEAM RECORDER: BARNHART

START TIME: -0- OBSERVERS: HAROLD REED BYARS
END TIME: -0-

TIDES: -0- AGENCY: FG USCG DEC EXX
OG/HAB DISCREPANCIES: -

PHOTOS TAKEN: N

STATION: 2564010010(1) ROLL#: -0-
FRAME: -0-

VIDEO TAKEN: N TAPE#: -0-
START: -0- END: -0-

SAMPLES TAKEN: N

SAMPLE NUMBERS: -0- -0-

-0- -0-

-0- -0-

OIL IN STREAM BED: Y

OVERALL OIL IMPACT: VL OIL ON BEACH BY MOUTH: -

WAVE EXPOSURE: LOW SHORELINE TYPE: LAGOON

SUBSTRATE TYPE: BEDROCK -0- BOULDER -0- COBBLE -0- VEGETAT -0-

GRAVEL -0- SAND -0- MUD/SILT -0- GRANULE -0-

ANADROMOUS FISH PRESENT: N -0-

SPECIES:		COUNT:
	-0-	-0-
	-0-	-0-
	-0-	-0-
	-0-	-0-
	-0-	-0-

ADF&G MULTI-ASSESSMENT FORM
1991 OILING ENTRY CHECKLIST

DATE PRINTED: 07/26/91

STREAM# : 2564010010(1)
SEGMENT#: SL001

SURVEY TYPE : 90 CLEANUP
DATE: 06/30/90
TIMES: -0- - -0-

LOCATION: KODIAK ISLAND, STURGEON LAG., N OF EAST STURGEON R
TEAM RECORDER: BARNHART

-- OILING EXTENT --

SITE#	SITE TYPE	DEPTH (cm)	LENGTH (m)	WIDTH (m)	AREA (m)	%	THICK (cm)	PEN (cm)	OIL TYPE CODES
1	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0- TB

COMMENTS:
TOTAL TIME WAS ~~.66 HOURS~~. THIS SEGMENT WAS SURVEYED BY SSAT ON 4/4/90 WITHOUT REPRESENTATION OF ADF&G HABITAT DIVISION. WALKED ENTIRE SEGMENT. LOCATED APPROX THREE TARBALLS PLUS OILED DEBRIS, WEIGHING APPROX 60 POUNDS TOTAL.

'90 Cleanup

ASC NUMBER:
LOCATION:
STREAM NAME: Sturgeon Lagoon
KODIAK K-UNIT:
USGS QUADRANGLE:
SHORELINE TYPE: Lagoon

SEGMENT NUMBER: SL-01
LOCAL STREAM #:

YR CATALOGED:
LATITUDE:
LONGITUDE:
LEGAL:
WAVE EXPOSURE: Low

ASC NUMBER: 256-40-10010 (1)
SURVEY TYPE: CL
METHOD: Foot
DATE: 6/30/90
START TIME: N/A Total Time .66 Hours.
STOP TIME: N/A

TEAM RECORDER: JEFF BARNHART
OBSERVERS: G. Harold, J. Reed, F. Byars

AGENCY(IES): ADF&G, USCG, ADEC, Exxon

PHOTOS TAKEN? N
Roll #: Frames:
VIDEO TAKEN? N Tape Number:
Counter Start:

SAMPLES TAKEN? N
SAMPLE I.D. NUMBERS: 1. 2. 3.
4. 5. 6.

OILING DATA

	LENGTH	WIDTH	M2	%	THICK	PEN	OIL TYPE
SITE 1	N/A						
SITE 2							
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT: VL

OIL IN STREAM CHANNEL? Y

SUBSTRATE

Bedrock	Granule
Boulder N/A	Sand
Cobble	Silt
Pebble	Veget.

OIL ON BEACH WITHIN 50M OF STREAM MOUTH? N/A

SPECIES	N/A				
COUNT	N/A				

COMMENTS: This segment was surveyed by SSAT on 4-4-90 without representation of ADF&G Habitat Division. Walked entire segment. Located approx three Tar balls plus oiled debris, weighting approx 60 pounds total.

ADF&G MULTI-ASSESSMENT FORM
1991 GENERAL ENTRY CHECKLIST

STREAM#: 2564010010(2)
SEGMENT: SL002

 DATE PRINTED: 07/25/91

LOCATION: KODIAK ISLAND, STURGEON LAG., CENTER OF NORTH SHOR

SURVEY TYPE: 90 CLEANUP METHOD: GROUND

DATE: 06/30/90 TEAM RECORDER: BARNHART

START TIME: -0- OBSERVERS: HAROLD REED BYARS
END TIME: -0-

TIDES: -0- AGENCY: FG USCG DEC EXX
OG/HAB DISCREPANCIES: -

PHOTOS TAKEN: N

STATION: 2564010010(2) ROLL#: -0-
FRAME: -0-

VIDEO TAKEN: N TAPE#: -0-
START: -0- END: -0-

SAMPLES TAKEN: N

SAMPLE NUMBERS: -0- -0-

-0- -0-

-0- -0-

OIL IN STREAM BED: Y

OVERALL OIL IMPACT: VL OIL ON BEACH BY MOUTH: -

WAVE EXPOSURE: LOW SHORELINE TYPE: LAGOON

SUBSTRATE TYPE: BEDROCK -0- BOULDER -0- COBBLE -0- VEGETAT -0-

GRAVEL -0- SAND -0- MUD/SILT -0- GRANULE -0-

ANADROMOUS FISH PRESENT: -

SPECIES:	COUNT:
-0-	-0-
-0-	-0-
-0-	-0-
-0-	-0-
-0-	-0-

ADF&G MULTI-ASSESSMENT FORM
1991 OILING ENTRY CHECKLIST

DATE PRINTED: 07/26/91

STREAM# : 2564010010(2)
SEGMENT#: SL002

SURVEY TYPE : 90 CLEANUP
DATE: 06/30/90
TIMES: -0- - -0-

LOCATION: KODIAK ISLAND, STURGEON LAG., CENTER OF NORTH SHOR
TEAM RECORDER: BARNHART

-- OILING EXTENT --

SITE#	SITE TYPE	DEPTH (cm)	LENGTH (m)	WIDTH (m)	AREA (m)	%	THICK (cm)	PEN (cm)	OIL TYPE CODES
1	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-

COMMENTS:
TOTAL TIME WAS .66 HOURS. THIS SEGMENT WAS SURVEYED BY SSAT ON 4/4/90 WITHOUT REPRESENTATION FROM ADF&G HABITAT DIVISION. VERY SMALL AMOUNT OF OIL LOCATED IN THIS SEGMENT. REMOVED ONE GALLON OF OIL. REMOVED UNOILED POMPOM BOOM, MISC CLEANUP DEBRIS AND EIGHT EMPTY PLASTIC OIL CLEANUP BAGS ALL OF WHICH WERE LOCATED IN THE SUPRATIDAL ZONE. TOTAL WEIGHT OF OIL AND DEBRIS REMOVED WAS ESTIMATED TO BE 175 POUNDS.

'90 Cleanup

ASC NUMBER:
LOCATION:
STREAM NAME: Sturgeon Lagoon
KODIAK K-UNIT:
USGS QUADRANGLE:
SHORELINE TYPE: Lagoon

SEGMENT NUMBER: SL-02
LOCAL STREAM #:

YR CATALOGED:
LATITUDE:
LONGITUDE:
LEGAL:
WAVE EXPOSURE: Low

ASC NUMBER: 256-40-10010(2)
SURVEY TYPE: CL
METHOD: Foot
DATE: 6/30/90
START TIME: N/A Total Time .66 hours
STOP TIME: N/A

TEAM RECORDER: JEFF BARNHART
OBSERVERS: G. Harold, J. Reed, F. Byars

AGENCY(IES): ADF&G, USCG, ADEC, Exxon.

PHOTOS TAKEN? N
Roll #: Frames:
VIDEO TAKEN? N Tape Number:
Counter Start:

SAMPLES TAKEN? N
SAMPLE I.D. NUMBERS: 1. 2. 3.
4. 5. 6.

OILING DATA

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

OVERALL OIL IMPACT: VL

OIL IN STREAM CHANNEL? Y

SUBSTRATE

Bedrock		Granule	
Boulder	N/A	Sand	
Cobble		Silt	
Pebble		Veget.	

OIL ON BEACH WITHIN 50M OF STREAM MOUTH? N/A

SPECIES					
COUNT					

COMMENTS: This segment was surveyed by SSAT on 4-4-90 without representation from ADF&G Habitat Division.

Very small amount of oil located in this segment. Removed one gallon of o.i. Removed unoiled pompomboom, misc cleanup debris and eight empty plastic oil cleanup bags all of which were located in the supratidal zone. Total weight of oil and debris removed was estimated to be 175 pounds.

ADF&G MULTI-ASSESSMENT FORM
1991 GENERAL ENTRY CHECKLIST

STREAM#: 2564010010(3)
SEGMENT: SL003

 DATE PRINTED: 07/25/91

LOCATION: KODIAK ISLAND, STURGEON LAG., E OF N TRIBUT. MOUTH

SURVEY TYPE: 90 CLEANUP METHOD: GROUND

DATE: 06/30/90 TEAM RECORDER: BARNHART

START TIME: -0- OBSERVERS: BYARS HAROLD REED
END TIME: -0-

TIDES: -0- AGENCY: FG EXX USCG DEC
OG/HAB DISCREPANCIES: -

PHOTOS TAKEN: N

STATION: 2564010010(3) ROLL#: -0-
FRAME: -0-

VIDEO TAKEN: N TAPE#: -0-
START: -0- END: -0-

SAMPLES TAKEN: N

SAMPLE NUMBERS: -0- -0-

-0- -0-

-0- -0-

OIL IN STREAM BED: Y

OVERALL OIL IMPACT: VL OIL ON BEACH BY MOUTH: -

WAVE EXPOSURE: LOW SHORELINE TYPE: LAGOON

SUBSTRATE TYPE: BEDROCK -0- BOULDER -0- COBBLE -0- VEGETAT -0-

GRAVEL -0- SAND -0- MUD/SILT -0- GRANULE -0-

ANADROMOUS FISH PRESENT: N

SPECIES:		COUNT:
	-0-	-0-
	-0-	-0-
	-0-	-0-
	-0-	-0-
	-0-	-0-

ADF&G MULTI-ASSESSMENT FORM
1991 OILING ENTRY CHECKLIST

DATE PRINTED: 07/26/91

STREAM# : 2564010010(3)
SEGMENT#: SL003

SURVEY TYPE : 90 CLEANUP
DATE: 06/30/90
TIMES: -0- - -0-

LOCATION: KODIAK ISLAND, STURGEON LAG., E OF N TRIBUT. MOUTH
TEAM RECORDER: BARNHART

-- OILING EXTENT --

SITE#	SITE TYPE	DEPTH (cm)	LENGTH (m)	WIDTH (m)	AREA (m)	%	THICK (cm)	PEN (cm)	OIL TYPE CODES
1	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0- TB

COMMENTS:
TOTAL TIME WAS .66 HOURS. THIS SEGMENT WAS SURVEYED BY SSAT ON 4/4/90 WITHOUT REPRESENTATION OF ADF&G HABITAT DIVISION. OILED BOOM NOTED BY SSAT AS BEING LOCATED IN SEGMENT SL017 WAS LOCATED BY CLEANUP MONITORS IN SEGMENT SL003. REMOVED 20 FOOT SECTION OF OILED POMPOM BOOM, OIL CLEANUP DEBRIS, 20 FEET OF UNOILED POMPOM BOOM, AND A FEW SMALL TARBALLS AMOUNTING TO 250 POUNDS.

'90 Cleanup

ASC NUMBER:
LOCATION:
STREAM NAME: Sturgeon Lagoon
KODIAK K-UNIT:
USGS QUADRANGLE:
SHORELINE TYPE: Lagoon

SEGMENT NUMBER: SL-03
LOCAL STREAM #:

YR CATALOGED:
LATITUDE:
LONGITUDE:
LEGAL:
WAVE EXPOSURE: Low

ASC NUMBER: 256-40-10010 (3)
SURVEY TYPE: CL
METHOD: Foot
DATE: 6/30/91
START TIME: N/A
STOP TIME: N/A
Total Time .66 hours.

TEAM RECORDER: JEFF BARNHART
OBSERVERS: F. Byars, Greg Harold, J. Reed

AGENCY(IES): ADF&G, Exxon, USCG, ADEC.

PHOTOS TAKEN? N
Roll #: Frames:
VIDEO TAKEN? N Tape Number:
Counter Start:

SAMPLES TAKEN? N
SAMPLE I.D. NUMBERS: 1. 2. 3.
4. 5. 6.

OILING DATA

	LENGTH	WIDTH	M2	%	THICK	PEN	OIL TYPE
SITE 1	N/A						
SITE 2							
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT: VL

OIL IN STREAM CHANNEL? Y

OIL ON BEACH WITHIN 50M OF STREAM MOUTH? N/A

SUBSTRATE

Bedrock	Granule
Boulder N/A	Sand
Cobble	Silt
Pebble	Veget.

SPECIES	N/A				
COUNT	N/A				

COMMENTS: This segment was surveyed by SSAT on 4-4-90 without representation of ADF&G Habitat Division. Oiled boom noted by SSAT as being located in segment SL-17 was located by cleanup monitors in Segment SL-03

Removed 20 foot section of oiled pom pom boom, oil cleanup debris, 20 feet of unoiled pom pom boom, and a few small Tar balls amounting to 250 pounds

ADF&G MULTI-ASSESSMENT FORM
1991 GENERAL ENTRY CHECKLIST

STREAM#: 2564010010(4)
SEGMENT: SL007

 DATE PRINTED: 07/25/91

LOCATION: KODIAK ISLAND, STURGEON LAG., SOUTH OF ENTRANCE

SURVEY TYPE: 90 CLEANUP METHOD: GROUND

DATE: 06/17/90 TEAM RECORDER: NO REP

START TIME: -0- OBSERVERS: TOMBLIN HAVEN BENNIS MCBEE
END TIME: -0-

TIDES: -0- AGENCY: EXX USCG DEC NPS
OG/HAB DISCREPANCIES: -

PHOTOS TAKEN: N

STATION: 2564010010(4) ROLL#: -0-
FRAME: -0-

VIDEO TAKEN: N TAPE#: -0-
START: -0- END: -0-

SAMPLES TAKEN: N

SAMPLE NUMBERS: -0- -0-

-0- -0-

-0- -0-

OIL IN STREAM BED: -

OVERALL OIL IMPACT: -0- OIL ON BEACH BY MOUTH: -

WAVE EXPOSURE: LOW SHORELINE TYPE: LAGOON

SUBSTRATE TYPE: BEDROCK -0- BOULDER -0- COBBLE -0- VEGETAT -0-

GRAVEL -0- SAND -0- MUD/SILT -0- GRANULE -0-

ANADROMOUS FISH PRESENT: -

SPECIES: -0- COUNT: -0-
-0- -0-
-0- -0-
-0- -0-
-0- -0-

ADF&G MULTI-ASSESSMENT FORM
1991 OILING ENTRY CHECKLIST

DATE PRINTED: 07/26/91

STREAM# : 2564010010(4)
SEGMENT#: SL007

SURVEY TYPE : 90 CLEANUP
DATE: 06/17/90
TIMES: -0- - -0-

LOCATION: KODIAK ISLAND, STURGEON LAG., SOUTH OF ENTRANCE
TEAM RECORDER: NO REP

-- OILING EXTENT --

SITE#	SITE TYPE	DEPTH (cm)	LENGTH (m)	WIDTH (m)	AREA (m)	%	THICK (cm)	PEN (cm)	OIL TYPE CODES
1	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-

COMMENTS:
THIS SEGMENT WAS SURVEYED 4/4/90 BY SSAT WITHOUT ADF&G HABITAT DIVISION PERSONNEL PRESENT. A CLEANUP WAS CONDUCTED ON 6/17/90 BY EXXON WITHOUT NOTIFYING ADF&G HABITAT DIVISION (SEE MIDDLETON MEMO TO EXXON 7/17/90). A POST TREATMENT SURVEY WAS CONDUCTED ON 6/30/90 (SEE FIELD INSPECTION REPORT OF 6/30/90).

`90 cleanup

ASC NUMBER: SEGMENT NUMBER: SL-07 YR CATALOGED:
LOCATION:
STREAM NAME: Sturgeon Lagoon LATITUDE:
KODIAK K-UNIT: LOCAL STREAM #: LONGITUDE:
USGS QUADRANGLE: LEGAL:
SHORELINE TYPE: Lagoon WAVE EXPOSURE: Low

ASC NUMBER: 256-40-10010 (4)
SURVEY TYPE: CL
METHOD: Foot
DATE: 6/17/90
START TIME: N/A
STOP TIME:

TEAM RECORDER: No representation by ADF&G
OBSERVERS: T. Tomblin, D. Haven, F. Bennis, D. McBee,

AGENCY(IES): Exxon, USCG, ADEC, NPS

PHOTOS TAKEN? N
Roll #: Frames:
VIDEO TAKEN? N Tape Number:
Counter Start:

SAMPLES TAKEN? N
SAMPLE I.D. NUMBERS: 1. 2. 3.
4. 5. 6.

OILING DATA

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

OVERALL OIL IMPACT:

OIL IN STREAM CHANNEL?

SUBSTRATE

Bedrock	Granule
Boulder	Sand
Cobble	Silt
Pebble	Veget.

OIL ON BEACH WITHIN 50M OF STREAM MOUTH?

SPECIES					
COUNT					

COMMENTS: This segment was surveyed on 4-4-90 by SSAT without ADF&G Habitat Division personnel present. A cleanup was conducted on 6-17-90 by Exxon without notifying ADF&G Habitat Division (see Middleton memmo to Exxon 7-17-90).

A post treatment survey was conducted on 6/30/90 (see Field Inspection Report of 6/30/90.)

ADF&G MULTI-ASSESSMENT FORM
1991 GENERAL ENTRY CHECKLIST

STREAM#: 2564010010(5)
SEGMENT: SL008

 DATE PRINTED: 07/25/91

LOCATION: KODIAK ISLAND, STURGEON LAG., SW END OF LAGOON

SURVEY TYPE: 90 CLEANUP METHOD: GROUND

DATE: 06/30/90 TEAM RECORDER: BARNHART

START TIME: 1315 OBSERVERS: HAROLD REED BYARS GOODWIN
END TIME: 1345

TIDES: -0- AGENCY: FG USCG DEC EXX DNR
OG/HAB DISCREPANCIES: -

PHOTOS TAKEN: N

STATION: 2564010010(5) ROLL#: -0-
FRAME: -0-

VIDEO TAKEN: N TAPE#: -0-
START: -0- END: -0-

SAMPLES TAKEN: N

SAMPLE NUMBERS: -0- -0-

-0- -0-

-0- -0-

OIL IN STREAM BED: Y

OVERALL OIL IMPACT: VL OIL ON BEACH BY MOUTH: -

WAVE EXPOSURE: LOW SHORELINE TYPE: LAGOON

SUBSTRATE TYPE: BEDROCK -0- BOULDER -0- COBBLE 85 VEGETAT -0-

GRAVEL 15 SAND -0- MUD/SILT -0- GRANULE -0-

ANADROMOUS FISH PRESENT: N

SPECIES:	COUNT:
-0-	-0-
-0-	-0-
-0-	-0-
-0-	-0-
-0-	-0-

ADF&G MULTI-ASSESSMENT FORM
1991 OILING ENTRY CHECKLIST

DATE PRINTED: 07/26/91

STREAM# : 2564010010(5)
SEGMENT#: SL008

SURVEY TYPE : 90 CLEANUP
DATE: 06/30/90
TIMES: 1315 - 1345

LOCATION: KODIAK ISLAND, STURGEON LAG., SW END OF LAGOON
TEAM RECORDER: BARNHART

-- OILING EXTENT --

SITE#	SITE TYPE	DEPTH (cm)	LENGTH (m)	WIDTH (m)	AREA (m)	%	THICK (cm)	PEN (cm)	OIL TYPE CODES
1	-0-	-0-	330	2	660	3	~~1MM~~ 1'	0	CT ST

COMMENTS:
THIS SEGMENT WAS SURVEYED BY SSAT ON 4/4/90 WITHOUT REPRESENTATION BY ADF&G HABITAT DIVISION. WALKED ENTIRE SEGMENT ON 6/30/90 ~~WITH~~ RESOURCE AGENCY REPRESENTATIVES AND EXXON. OIL COAT/STAIN, PATCHY, SPROADIC CAN BE FOUND ALONG THE ENTIRE SEGMENT. THE OIL IS BLACK IN COLOR AND HIGHLY WEATHERED. NATURAL DEGRADATION APPEARS TO BE OCCURRING IN THE AEROBIC ENVIRONMENT. LARGE PORE SPACES OCCUR BETWEEN THE COBBLE/PEBBLE SUBSTRATE. AN EXPANSIVE BED OF EEL GRASS AJOINS THIS SEGMENT. I RECOMMEND NO ADDITIONAL CLEANUP AND NO BIOREMEDIATION. SALMON CARCASSES AND DECAYING VEGETATION COLLECTING ON THE SHORELING WILL PROVIDE NUTRIENTS NECESSARY FOR CONTINUED DEGRADATION OF THE OIL. WE DUG FOUR PITS IN AREAS THAT EXHIBITED SURFACE OILING CONDITIONS. NO SUBSURFACE OIL WAS LOCATED.

'90 Cleanup

ASC NUMBER: SEGMENT NUMBER: SL-08 YR CATALOGED:
LOCATION:
STREAM NAME: Sturgeon Lagoon LATITUDE:
KODIAK K-UNIT: LOCAL STREAM #: LONGITUDE:
USGS QUADRANGLE: LEGAL:
SHORELINE TYPE: Lagoon WAVE EXPOSURE: Low

ASC NUMBER: 256-40-10010 (5)
SURVEY TYPE: CL
METHOD: F
DATE: 6/30/90
START TIME: 1315
STOP TIME: 1345

TEAM RECORDER: JEFF BARNHART
OBSERVERS: G. Harold, J. Reed, F. Byars M. Goodwin
AGENCY(IES): ADF&G, USCG, ADEC, Exxon, DNR

PHOTOS TAKEN? N
Roll #: Frames:
VIDEO TAKEN? N Tape Number:
Counter Start:

SAMPLES TAKEN? N
SAMPLE I.D. NUMBERS: 1. 2. 3.
4. 5. 6.

OILING DATA

	LENGTH	WIDTH	M2	%	THICK	FEN	OIL TYPE
SITE 1	330m	2m	660	3	1mm	∅	CT/ST
SITE 2							
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT: VL

OIL IN STREAM CHANNEL? Y

SUBSTRATE

Bedrock	Granule
Boulder	Sand
Cobble 85	Silt
Pebble 15	Veget.

OIL ON BEACH WITHIN 50M OF STREAM MOUTH? N/A.

SPECIES	N/A				
COUNT	N/A				

COMMENTS: This segment was surveyed by SSAT on 4-4-90 without representation on 6-30-90 by ADF&G Habitat Division. walked entire segment with resource agency representatives and Exxon. Oil coat/stain, patchy, sporadic can be found along the entire segment. The oil is black in color and highly weathered. Natural degradation appears to be occuring in the aerobic environment. Large pore spaces occur between the cobble/pebble substrate. An expansive bed of eel grass ajoins this segment. I recommend no additional cleanup and no bioremediation. Salmon carcasses and decaying vegetation collecting on the shoreline will provide nutrients necessary for continued degradation of the oil.

we dug four pits in areas that exhibited surface oiling conditions. No subsurface oil was located.

ADF&G MULTI-ASSESSMENT FORM
1991 GENERAL ENTRY CHECKLIST

STREAM#: 2564010010(6)
SEGMENT: SL015

 DATE PRINTED: 07/25/91

LOCATION: KODIAK ISLAND, STURGEON LAG., NE OF ENTRANCE

SURVEY TYPE: 90 PRE SCREEN - SS METHOD: GROUND

DATE: 04/25/90 TEAM RECORDER: WEISS

START TIME: 1203 OBSERVERS: BARNHART THOMAS
END TIME: 1220

TIDES: -0- AGENCY: FG
OG/HAB DISCREPANCIES: -

PHOTOS TAKEN: N

STATION: 2564010010(6) ROLL#: -0-
FRAME: -0-

VIDEO TAKEN: N TAPE#: -0-
START: -0- END: -0-

SAMPLES TAKEN: N

SAMPLE NUMBERS: -0- -0-

-0- -0-

-0- -0-

OIL IN STREAM BED: N

OVERALL OIL IMPACT: N OIL ON BEACH BY MOUTH: -

WAVE EXPOSURE: LOW SHORELINE TYPE: LAGOON

SUBSTRATE TYPE: BEDROCK -0- BOULDER -0- COBBLE -0- VEGETAT -0-

GRAVEL -0- SAND -0- MUD/SILT 100 GRANULE -0-

ANADROMOUS FISH PRESENT: N

SPECIES:	COUNT:
-0-	-0-
-0-	-0-
-0-	-0-
-0-	-0-
-0-	-0-

ADF&G MULTI-ASSESSMENT FORM
1991 OILING ENTRY CHECKLIST

DATE PRINTED: 07/26/91

STREAM# : 2564010010(6)
SEGMENT#: SL015

SURVEY TYPE : 90 PRE SCREEN - SS
DATE: 04/25/90
TIMES: 1203 - 1220

LOCATION: KODIAK ISLAND, STURGEON LAG., NE OF ENTRANCE
TEAM RECORDER: WEISS

-- OILING EXTENT --

SITE#	SITE TYPE	DEPTH (cm)	LENGTH (m)	WIDTH (m)	AREA (m)	%	THICK (cm)	PEN (cm)	OIL TYPE CODES
1	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-

COMMENTS:
CHECKED EXTENSIVE MUD FLATS DURING EXTREME LOW TIDE FOUND NO OIL IN MUD/SAND FLATS. RECOMMEND NO ANADSSAT NEEDED. BUT CLEANUP BE CONDUCTED ACCORDING TO FINDINGS OF SSAT TEAMS FOR STURGION LAGOON SEGMENTS SL1-3, 15, 7, 8, 17.

'90 cleanup

ASC NUMBER: SEGMENT NUMBER: SL-15 YR CATALOGED:
LOCATION:
STREAM NAME: Sturgeon Lagoon LATITUDE:
KODIAK K-UNIT: K06-34 LOCAL STREAM #: LONGITUDE:
USGS QUADRANGLE: LEGAL:
SHORELINE TYPE: Lagoon WAVE EXPOSURE: Low

ASC NUMBER: 256-40-10010(6)
SURVEY TYPE: CL
METHOD: Foot
DATE: 7/10/90
START TIME: 1515
STOP TIME: 1700

TEAM RECORDER: JEFF BARNHART
OBSERVERS: F. Byars, J. Davis, D. Wydoski, H. Overton J. Carlson
AGENCY(IES): ADF&G, Exxon, USCG, USF&WS, NPS, ADEC

PHOTOS TAKEN? N
Roll #: Frames:
VIDEO TAKEN? N Tape Number:
Counter Start:

SAMPLES TAKEN? N
SAMPLE I.D. NUMBERS: 1. 2. 3.
4. 5. 6.

OILING DATA

	LENGTH	WIDTH	M2	%	THICK	PEN	OIL TYPE
SITE 1	4m	1m	4	15	1.5cm	Ø	TB, PT, MS
SITE 2	1m	.5m	.5	10	1.5cm	Ø	TB, PT, MS
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT: L

OIL IN STREAM CHANNEL? Y

SUBSTRATE

Bedrock	Granule 15
Boulder	Sand 10
Cobble 25	Silt 25
Pebble 25	Veget.

OIL ON BEACH WITHIN 50M OF STREAM MOUTH? N/A

SPECIES					
COUNT					

COMMENTS: This segment was surveyed by SSAT on 4-4-90 without representation of ADF&G Habitat Division. Did not locate the 3m x 30m area as indicated on the SSAT sketch map. Instead we located an area in the same location of 4m x 1m. A second area of 1m x .5m was also found. Sporadic MS, TB, PT were found along the length of this segment. Pom Pom boom and empty Exxon-Vecco plastic cleanup bags from 1989 were also located and removed. Fifty-Five gallon drums of unknown origin remain in this segment at the mouth of the lagoon, Oil and cleanup debris amounted to 200 pounds.

ADF&G MULTI-ASSESSMENT FORM
1991 GENERAL ENTRY CHECKLIST

STREAM#: 2564010010(6)
SEGMENT: SL015

 DATE PRINTED: 07/25/91

LOCATION: KODIAK ISLAND, STURGEON LAG., NE OF ENTRANCE

SURVEY TYPE: 90 CLEANUP METHOD: GROUND

DATE: 07/10/90 TEAM RECORDER: BARNHART

START TIME: 1515
END TIME: 1700

OBSERVERS: BYARS DAVIS WYDOSKI
OVERTON CARLSON

TIDES: -0-
OG/HAB DISCREPANCIES: -

AGENCY: FG EXX USCG USFWS NPS DEC

PHOTOS TAKEN: N

STATION: 2564010010(6)

ROLL#: -0-
FRAME: -0-

VIDEO TAKEN: N TAPE#: -0-
START: -0- END: -0-

SAMPLES TAKEN: N

SAMPLE NUMBERS: -0- -0-

-0- -0-

-0- -0-

OIL IN STREAM BED: Y

OVERALL OIL IMPACT: L

OIL ON BEACH BY MOUTH: -

WAVE EXPOSURE: LOW SHORELINE TYPE: LAGOON

SUBSTRATE TYPE: BEDROCK -0- BOULDER -0- COBBLE 25 VEGETAT -0-

GRAVEL 25 SAND 10 MUD/SILT 25 GRANULE ~~-0-~~ 15

ANADROMOUS FISH PRESENT: -

SPECIES:	COUNT:
-0-	-0-
-0-	-0-
-0-	-0-
-0-	-0-
-0-	-0-

ADF&G MULTI-ASSESSMENT FORM
1991 OILING ENTRY CHECKLIST

DATE PRINTED: 07/26/91

STREAM# : 2564010010(6)
SEGMENT#: SL015

SURVEY TYPE : 90 CLEANUP
DATE: 07/10/90
TIMES: 1515 - 1700

LOCATION: KODIAK ISLAND, STURGEON LAG., NE OF ENTRANCE
TEAM RECORDER: BARNHART

-- OILING EXTENT --

SITE#	SITE TYPE	DEPTH (cm)	LENGTH (m)	WIDTH (m)	AREA (m)	%	THICK (cm)	PEN (cm)	OIL TYPE CODES
1	-0-	-0-	4	1	4	15	1.5	0	TB PT MS
2	-0-	-0-	1	.5	.5	10	1.5	0	TB PT MS

COMMENTS:
THIS SEGMENT WAS SURVEYED BY SSAT ON 4/4/90 WITHOUT REPRESENTATION OF ADF&G HABITAT DIVISION. DID NOT LOCATE THE 3M X 30M AREA AS INDICATED ON THE SSAT SKETCH MAP. INSTEAD WE LOCATED AN AREA IN THE SAME LOCATION OF 4M X 1M. A SECOND AREA OF 1M X .5M WAS ALSO FOUND. SPORADIC MS, TB, PT WERE FOUND ALONG THE LENGTH OF THIS SEGMENT. POMPOM BOOM AND EMPTY EXXON VECO PLASTIC CLEANUP BAGS FROM 1989 WERE ALSO LOCATED AND REMOVED. 55 GALLON DRUMS OF UNKNOWN ORIGIN REMAIN IN THIS SEGMENT AT THE MOUTH OF THE LAGOON. OIL AND CLEANUP DEBRIS AMOUNTED TO 200 POUNDS.

PRE SCREEN

ADF&G MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS (GS) DS TS AVS SCHA MMHS PTA 2 REGION: PWS KP,CI (K),AP

METHOD: Aerial (Ground) Boat

3 DATE: 4-25-90 15 HIGH TIDE TIMES: / 21 TEAM RECORDER: E. Weiss

4 START TIME: 1203 16 HIGH TIDE HTS: / 22 OBSERVERS: J. BARNHART, B. THOMAS

5 STOP TIME: 1220 17 LOW TIDE TIMES: 0917 / 23 AGENCY: ADFG

6 SEGMENT #: 18 LOW TIDE HTS: -5.0 / 24 PHOTOS TAKEN: Y N

7 STATION #: 19 TIDE HT AT SURVEY: Roll #: Frame:

8 K-UNIT: K6-34 Ebb Slack Flood Slack 25 VIDEO TAKEN: Y N TAPE#:

9 STAT AREA: 20 USCG QUAD: Start: End:

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

12 SOURCE: Map Loran Oil

13 LOCATION: STURGEON LAGOON, Kodiak Island Sediment

14 DESCRIPTION: Biological

EXTENT OF OIL Water

	SHORELINE L	W	M²	%	STREAM L	W	M²	%
27 SURFACE COVERAGE								
28 SURFACE THICKNESS								
29 PENETRATION								

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

31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain

32 OILED DEBRIS? Y (N)

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

34 WAVE EXPOSURE: High Moderate (Low)

35 SUBSTRATE TYPE: Bedrock Boulder Cobble

Gravel Sand Mud/silt 100

Data ~~entry note~~: ~~No segments~~

36 CATALOGED ANAD. FISH STREAM? X N

37 CATALOG #: 25B-40-10010(6)

38 STREAM NAME: Sturgeon Lagoon

39 OIL IN STREAM BED? Y N

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: Did not survey mouth area

43 ANADROMOUS FISH PRESENT? Y (N)

44 ANADROMOUS FISH OBSERVATION

Species	Aerial	Ground

COMMENTS: CHECKED EXTENSIVE MUD FLATS DURING EXTREME LOW TIDE FOUND NO OIL IN MUD/SAND FLATS.

RECOMMEND: NO ANADSSAT NEEDED. BUT CLEANUP BE CONDUCTED ACCORDING TO FINDINGS OF SSAT TEAMS FOR STURGEON LAGOON SEGMENTS: SL 1-3, 15, 7, 8, 17

ACE 1852496 H/F/HF

ADF&G MULTI-ASSESSMENT FORM
1991 GENERAL ENTRY CHECKLIST

STREAM#: 2564010010(7)
SEGMENT: SL017

 DATE PRINTED: 07/25/91

LOCATION: KODIAK ISLAND, STURGEON LAG., EAST SHORE OF N TRIB

SURVEY TYPE: 90 CLEANUP METHOD: GROUND

DATE: 06/30/90 TEAM RECORDER: BARNHART

START TIME: -0- OBSERVERS: BYARS HAROLD REED
END TIME: -0-

TIDES: -0- AGENCY: FG EXX USCG DEC
OG/HAB DISCREPANCIES: -

PHOTOS TAKEN: N

STATION: 2564010010(7) ROLL#: -0-
FRAME: -0-

VIDEO TAKEN: N TAPE#: -0-
START: -0- END: -0-

SAMPLES TAKEN: N

SAMPLE NUMBERS: -0- -0-

-0- -0-

-0- -0-

OIL IN STREAM BED: N

OVERALL OIL IMPACT: N OIL ON BEACH BY MOUTH: -

WAVE EXPOSURE: LOW SHORELINE TYPE: LAGOON

SUBSTRATE TYPE: BEDROCK -0- BOULDER -0- COBBLE -0- VEGETAT -0-

GRAVEL -0- SAND -0- MUD/SILT -0- GRANULE -0-

ANADROMOUS FISH PRESENT: -

SPECIES:	COUNT:
-0-	-0-
-0-	-0-
-0-	-0-
-0-	-0-
-0-	-0-

ADF&G MULTI-ASSESSMENT FORM
1991 OILING ENTRY CHECKLIST

DATE PRINTED: 07/26/91

STREAM# : 2564010010(7)
SEGMENT#: SL017

SURVEY TYPE : 90 CLEANUP
DATE: 06/30/90
TIMES: -0- - -0-

LOCATION: KODIAK ISLAND, STURGEON LAG., EAST SHORE OF N TRIB
TEAM RECORDER: BARNHART

-- OILING EXTENT --

SITE#	SITE TYPE	DEPTH (cm)	LENGTH (m)	WIDTH (m)	AREA (m)	%	THICK (cm)	PEN (cm)	OIL TYPE CODES
1	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-

COMMENTS:
THIS SEGMENT WAS SURVEYED BY SSAT ON 4/4/90 WITHOUT REPRESENTATION OF ADF&G HABITAT DIVISION. THE BOOM INDICATED ON THE WORK ORDER AS LOCATED IN SL-17 WAS IN REALITY LOCATED IN SL003. IT WAS REMOVED. NO OTHER CLEANUP WORK WAS RECOMMENDED FOR SL-17.

'90 cleanup

ASC NUMBER:	SEGMENT NUMBER: SL-17	YR CATALOGED:
LOCATION:		
STREAM NAME: Sturgeon Lagoon		LATITUDE:
KODIAK K-UNIT:	LOCAL STREAM #:	LONGITUDE:
USGS QUADRANGLE:		LEGAL:
SHORELINE TYPE: Lagoon		WAVE EXPOSURE: Low

ASC NUMBER: 256-40-10010(7)
SURVEY TYPE: CL
METHOD: Foot
DATE: 6/30/90
START TIME:
STOP TIME: N/A

TEAM RECORDER: Jeff Barnhart
OBSERVERS: F. Byars, G. Harold, J. Reed

AGENCY(IES): ADF&G, Exxon, USCG, ADEC

PHOTOS TAKEN? N
Roll #: Frames:
VIDEO TAKEN? N Tape Number:
Counter Start:

SAMPLES TAKEN? N
SAMPLE I.D. NUMBERS: 1. 2. 3.
4. 5. 6.

OILING DATA

	LENGTH	WIDTH	M2	%	THICK	PEN	OIL TYPE
SITE 1	N/A						
SITE 2							
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT: N

OIL IN STREAM CHANNEL? N

SUBSTRATE

Bedrock	Granule
Boulder N/A	Sand
Cobble	Silt
Pebble	Veget.

OIL ON BEACH WITHIN 50M OF STREAM MOUTH? N/A

SPECIES	N/A				
COUNT	N/A				

COMMENTS: This segment was surveyed by SSAT on 4-4-90 without representation of ADF&G habitat Division.

The boom indicated on the work order as located in SL-17 was in reality located in SL-003. IT was removed. No other cleanup work was recommended for SL-17.

'90 Cleanup

ASC NUMBER:
SEGMENT NUMBER: SL-01
YR CATALOGED:
LOCATION:
STREAM NAME: Sturgeon Lagoon
LATITUDE:
KODIAK K-UNIT:
LOCAL STREAM #:
LONGITUDE:
USGS QUADRANGLE:
LEGAL:
SHORELINE TYPE: Lagoon
WAVE EXPOSURE: Low

ASC NUMBER: 256-40-10010 (1)
TEAM RECORDER: JEFF BARNHART
SURVEY TYPE: CL
OBSERVERS: G. Harold, J. Reed, F. Byers
METHOD: Foot
DATE: 6/30/90
AGENCY(IES): ADF&G, USCG, ADEC, Exxon
START TIME: N/A Total Time ≈66 Hours.
STOP TIME: N/A
PHOTOS TAKEN? N
Roll #: Frames:
VIDEO TAKEN? N Tape Number:
Counter Start:

SAMPLES TAKEN? N
SAMPLE I.D. NUMBERS: 1. 2. 3.
4. 5. 6.

OILING DATA

	LENGTH	WIDTH	M2	%	THICK	FEN	OIL TYPE
SITE 1	N/A						
SITE 2							
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT: VL

OIL IN STREAM CHANNEL? Y

SUBSTRATE

Bedrock		Granule	
Boulder	N/A	Sand	
Cobble		Silt	
Pebble		Veget.	

OIL ON BEACH WITHIN 50M OF STREAM MOUTH? N/A

SPECIES	N/A				
COUNT	N/A				

COMMENTS: This segment was surveyed by SSAT on 4-4-90 without representation of ADF&G Habitat Division. walked entire segment. Located approx three Tar balls plus oiled debris, weighting approx 60 pounds total.

EVOS CLEANUP MONITORING, 1990.

REGION: Kodiak

K-UNIT: KO6-34

SEGMENT: SL-01

LOCATION: STurgeon Lagoon

STREAM NAME: STurgeon River

ANAD. STREAM CAT. #: 256-40-10010

ANAD. FISH STREAM PERMIT ISSUED: 6/30/90

DATE(S) WORKED: 6/30/90

SQUAD #: 9 Helo

SQUAD SIZE: 6

NUMBER OF BAGS collected: 2

POUNDS OF OIL/OILED SEDIMENT REMOVED: 60 (observations)

TREATMENT TECHNIQUES: MANUAL REMOVAL X BIOREMEDIATION

OTHER

DEMOB DATE: 6/30/90

OIL SAMPLE # N/A

OIL TYPE: TB

SUBSTRATE TYPE: N/A

REPRESENTATIVES

EXXON: Fred Byers

USCG: Greg Harold

DEC: Randy (John) Read

NPS: N/A

USF&WS: N/A

ADF&G: Jeff Barnhart

OTHER:

HOURS WORKED: .66

TOTAL MAN HOURS worked: 4.0

Work Order Issued 6/30/90

OIL BANDS

L	W	D	m^2	% oil cover	V
L	W	D	m^2	% oil cover	V
L	W	D	m^2	% oil cover	V
L	W	D	m^2	% oil cover	V
L	W	D	m^2	% oil cover	V

PHOTOLOG

Roll #	FRAME #	DESCRIPTION
N/A		

ACE 1852511+6/FF

PROBLEMS: This segment was surveyed by SSAT on 4-4-90 without representation of ADF&G Habitat Division.

OBSERVATIONS: walked entire segment. located approx three tar balls plus oiled debris.

SIGNED: Jeff Bernhardt

ACE 1852512-15

Sturgeon Lagoon 6/30/90 gfB

oxygen can reach the oil. There is an expansive Eel grass bed agjoining the cobble beach. I suggest no additional cleanup & no bioremediation. Salmon Carcasses will provide the nutrients in this low energy environment necessary for biodegradation

walked SL1 SL2 SL3

SL3- oiled boom (pom poms) & cleanup debris 1 Tonbag

SL2- oiled pom poms + cleanup debris 2 Ton bags

Start 11a10 See Final summary next page as to what we removed.

Stop work 6:00 pm

Found 4 or 5 Ton bags up to 6" also. at end of segment # 2 by cabin Also 2 bags empty from last year.

Depart aprox 6:07 pm. 509EH. We were supposed to stop & pick up the oiled boom in SL17 w/ the helicopter. They (pilots) departed Lagoon w/out stopping. They shut the communications off to my head (GfB) set. Also After we loaded the bags of debris into the helicopter the pilot said we could not carry them because they blocked the door. Told Bill (Foreman) we could put them in Tail boom but there is no space in there either. we had six bags, we only brought 1 one back in with us. Bill and crew with exception of Todd (he was with us) were left remaining on the beach w/out a helicopter as 511 went to Kodiak to

but not before they started talking about Bill.

ACE 1852513+/S

6/30/90 9AB

refuel

Land Redoubt 6:55pm.
work on Tomorrows schidule with Fred, Tommie
(Sea Trader) USFWS, DNR, DEC + Coast Guard.
will Depart 11:30 Am. Boat crew will
work on Big Foot creek. Helo crews on Red Fox
creek/Lagoon. Debriefing. Draft of Todays
work effort. Done 9:30pm
Personnel on Flight: FRED B YARS (EVOS)
Randy Reed (ADEC) GREG Haddd (USCG)
Mike Goodwin (DNR) and myself.

SL003 Found heavy oiled boom 20' in length partially buried
and 20' of unoiled boom, plus cleanup debris. A few small
Tar balls {8 bags of boom + oiled debris.}
SL002 Removed approx 1 gallon of Tarballs, unoiled boom,
cleanup debris {3 bags + boom Total}
SL001 - 3 TB plus oiled debris {2 bags Total}

Fred Byars spoke To Tommie Tomblin at appox 8:00 pm
Today. He Told Fred They took five buckets of
oiled material from SL07 on 6/12/90

ACE 1852514-15

STATUS OF OPEN WORK AREAS

SQUAD 9 – HELICOPTER

DATE OF WORK: 6/30/90 WORK HOURS: START 0830 TO: 2000

MANUAL AND MECHANICAL OPERATIONS

Segment	Sub Div	Date Work Started	Date Demob Approved *	WORK STATUS: Manual Pickup	Tarmat Asphalt Removal	Spot Wash	Tilling /Raking	Bio	Anad Streams	Other Describe	DAILY QUANTITIES: # of Supers f Supersac Oiled Matl	# of Supers f Supersac Oiled Sediments	Square Meters Washed	Granular Bio Lin Mtrs Covered	Granular Bio Sq Mtr Covered	Granular Bio Lbs Used	Cords Wood Burned
K6-34SL1	A	6/30/90	6/30/90	100%							.12	.					
K6-34SL2	A	6/30/90	6/30/90	100%							.08						
K6-34SL3	A	6/30/90	6/30/90	100%							.05						
K6-34SL8	A	6/30/90	6/30/90	—							0						
K6-34SL17	A	6/30/90	6/30/90	—							0						

SEGMENT	SUB DIV	DEMOB DATE	DEMOBILIZATION ACKNOWLEDGMENT * USCG	ADEC	EXXON
K6-34SL1	A	6/30/90		John R. Reed	Fred Byers
K6-34SL2	A	6/30/90		John R. Reed	Fred Byers
K6-34SL3	A	6/30/90		John R Reed	Fred Byers
K6-34SL8	A	6/30/90		John R Reed	Fred Byers
K6-34SL17	A	6/30/90		John R. Reed	Fred Byers

* The date that the Manual/Mechanical portion of the Work Order has been completed and acknowledged. A separate acknowledgement will be made for the Bioremediation portion of the Work Order.

** 1 Supersack = 45 CF, report in tenths of sack (ie. 0.1)

STATUS CODES

NA	Not Applicable/Recommended for this segment division
N	Recommended but not started
W	Started and Working
#%	Percentage complete (used on large work scopes)
C	Work complete

ACE 1852515

SL 9 & 5 are on The SW side of The Lagoon Entrance.
SL 15 is on The NE side of The Lagoon entrance
Shelikof Strait
NE side
SW side
Manual (proposed)
No Treatment
SL-16
SL-15
SL-17
SL-13
SL-9
SL-5
SL-6
SL-14
SL-7
SL-8
SL-3
SL-2
SL-1
SL-11
SL-12
SL-4
SL-10
Biomediation + manual
manual
East Stugeon R.
KODIAK NATIONAL
STURGEON RIVER
NO SSAT
STURGEON LAGOON BLOCK
— SL-1, SL-2, SL-3, SL-4, SL-5, SL-6, SL-
SL-8, SL-9, SL-10, SL-11, SL-12, SL-13, SL
SL-15, SL-16, SL-17
30' (KARLUK B-2)
SCALE 1:63360
MAGNETIC NORTH
CONTOUR INTERVAL 100 FEET
DASHED LINES REPRESENT 50 FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929
DEPTH CURVES IN FEET – DATUM IS MEAN LOWER LOW WATER
SHORELINE SHOWN REPRESENTS THE APPROXIMATE LINE OF MEAN HIGH WATER
THE AVERAGE RANGE OF TIDE IS APPROXIMATELY 11 FEET
ACE 1852516

Field copy

SHORELINE EVALUATION

SEGMENT ST/ K06-34-SL-01 SUBDIVISION A (1 OF 1) DATE 4/9/90

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 E. Holmes DATE: April 14, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 97 m: No Oil 272 m
Subsurface Oil Observed: Yes ___ No X Maximum Depth ___

RECOMMENDATIONS:

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

COMMENTS: Manual pick up of mousse and patties. Work restricted to before 7/10.

TAG COMMENTS:

TAG APPROVAL DATE: 4/14/90.
ADEC JOHN BAUER
EXXON ANDY TER
NOAA Earl Wescott
USCG G.A. REITER G.A. Reiter

FOSC: [signature] DATE: 5-1-90

ACE 1852517+IS

FIELD SHORELINE COMMENT SHEET

SEGMENT ST / Kk6-34 SL-01 SUBDIVISION: K6-34-2L-1A DATE 4-4-98

USCG
NAME D.D. Haven Jr. GM3, USCGR SIGNATURE D.D. Haven Jr.

☒ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED
COMMENTS

all areas less than 1% coverage. Cannot justify treatment.

ADEC
NAME Francine J. Bennis SIGNATURE Francine J. Bennis

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED
COMMENTS

Very sporadic MS/AS patties are present in this area of Sturgeon Lagoon. A small clean-up crew should also cruise this segment & pick-up the retrievable oil.

SSAT field map should accompany clean-up crew.

LAND MANAGER
NAME JOHN P. HARDISTER SIGNATURE John P. Hardister USFWS

☐ NO TREATMENT RECOMMENDED ☒ TREATMENT SUGGESTED
COMMENTS

Concur with ADEC representative. JPH

John Merrick John merrick Koniag Inc

Concur - if a team in the area a small effort here would be beneficial

REVISION NO. 03/21/95

ACE 1852518

OG Acton

SEGMENT ST/ K6-34-SL-1

SUBDIVISION K6-34-SL-1A

DATE 4 / 4 90

SKETCH MAP

N ↑

Approx Scale
1cm = 50m

CHECKLIST

- ___ N Arrow
- ___ Approx. Scale
- ___ Seg/Sub Bndry
- ___ Ox D st.
  - 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

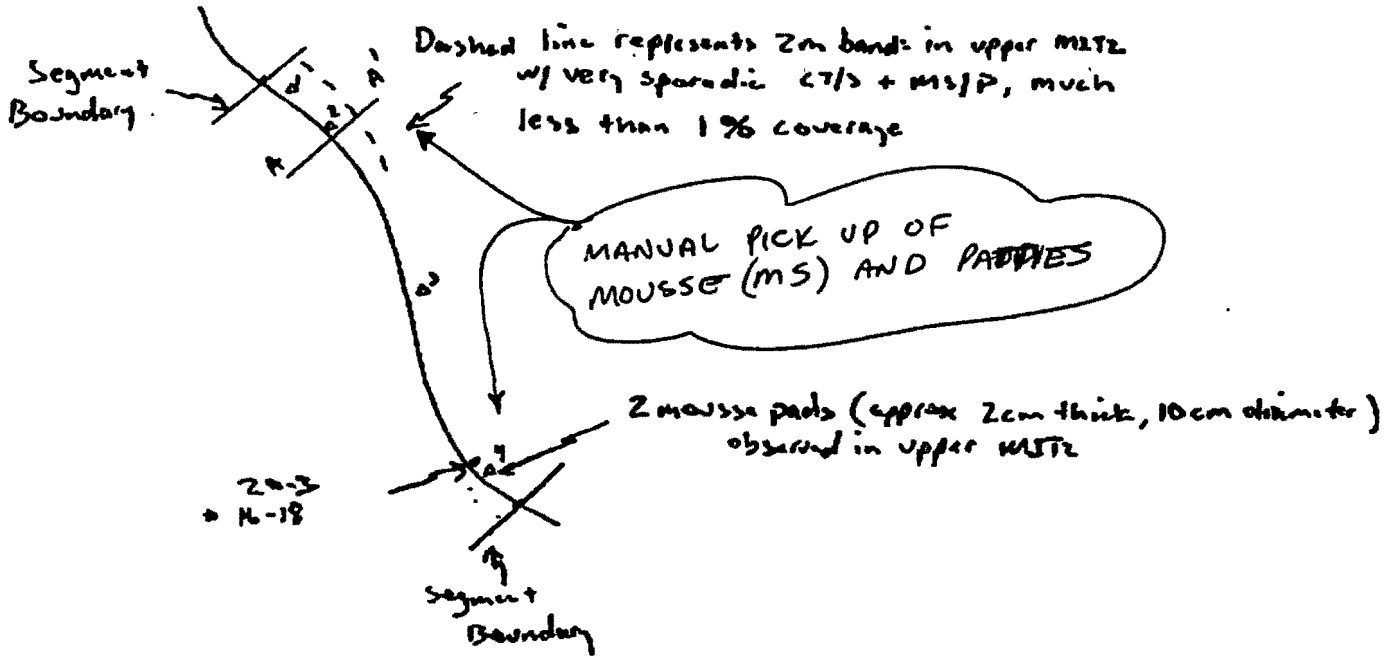
CT/B
Broken Distribution

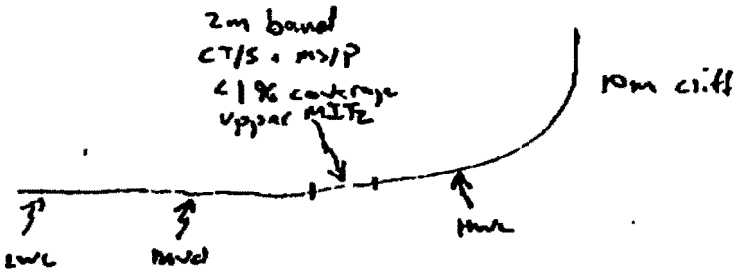
CT/P
Patchy Distribution

CT/S
Splashed Distribution

Oiled Vegetation

1 ⇔
Photo location, direction, and number





Oil Character Length (m): AP 0 PO 0 CV 0 CT 100 ST 0 MS 100 PT 0 TB 0 FL 0 NO 310

REVISION:03/24/88

ACE 1852519 -15

STATE OF ALASKA

DEPARTMENT OF FISH AND GAME

STEVE COWPER, GOVERNOR

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

EXXON Valdez Oilspill Cleanup

Anadromous Fish Stream Authorization

Date 6/30/90.

EXXON Authorized Representative Fred BYARS

Shoreline Segment KO6-34-SL01

Anadromous Fish Stream Number(s) 256-40-10010

Sturgeon River, Kodiak Island

Approved Cleanup Techniques Manual pickup of mousse and oiled debris

Approved Cleanup Period 6/30/90 - 7/10/90

Alaska Department of Fish and Game

Jeffrey P Bernhart
Authorized Officer

Fred D. Byars
Permittee's Signature

ACE 1852520

FROM: Fred BYARS
TO: VESSEL COMMAND NETWORK
FAX No: (907) 266-6490

OPERATIONS DAILY REPORT
SQUAD 9 - SEATRADER/HELICOPTER

DATE OF WORK: 6/30/90 WORK HOURS: START 0830 TO: 2000

WEATHER CONDITIONS: Wind Speed (Knts) _____ Wave Height(Ft) _____ GENERAL _____
TIDES: HIGH _____ Time _____ HIGH _____ Time _____
LOW _____ Time _____ LOW _____ Time _____
GENERAL LOCATION: _____

SAFETY INCIDENTS	For Day
Fatality	
Lost Time	
Restricted	
Medical Treatment	
Total Recordable	

(Transmit Details Separately)

SCHEDULED WORK DAY HOURS (ex Break) =	Vessel 12	Helo 12
Working		
Weather Downtime		4
Transit Time		2
Mechanical Downtime		2
Other:		

VESSEL REPRESENTATIVES NAMES
ADEC _____
Exxon _____
USCG _____
OOPS _____
Other _____

HELICOPTER REPRESENTATIVES NAMES
ADEC Randy Reed
Exxon Fred Byars
USCG Craig Harold
Other Mike Goodwin ADNR
Jeff Barnhart ADF&G

MANPOWER AND BILLETING STATUS (# of People)

Berthing Vessel	PAX * Beds	Exxon Reps	OOPS	Agency Reps	Other	Beach Wkrs Wkg	Beach Wkrs Idle	Open Beds
Sea Trader	16							

* COI Passenger Beds (Includes Service Personnel)

Helicopter # of Workers
6

	Boat Crews
Berthing Vessels	
LCV/Production	
Work Boats	
TOTALS	

Helicopter Tail #'s
509 EH
511 EH
Work Areas
KK-34 SL 1,2
3,8,17

VESSEL STATUS (# of Vessels)

Vessel Type	Total Asignd	In Transit	Total Working	Not Used	Mech Down	Weath Down
Berthing						
LCV/Production						
Work Boat						
TOTALS						

VESSELS ASSIGNED:

Vessel Name	Vessel Type	# People Berthed
Sea Trader	Berthing	

NEXT SQUAD MOVE: LOCATION KDI12 55009 DATE OF MOVE 7/1/90

DATE OF LAST CREW CHANGE _____ SCHEDULED DATE FOR NEXT CREW CHANGE _____
PORT FOR CREW CHANGE _____ PORT FOR CREW CHANGE _____

VISITORS (Name/Affiliation) _____

STATUS OF SUPPLIES/STORAGE CAPACITIES: _____

NUMBER OILED/DEAD BIRDS FOUND _____ # Alive NUMBER OILED/DEAD MAMMALS FOUND _____ # Alive _____
OTHER* _____

* Such as discovery of dead oiled birds/mammals, Archeological Artifacts, Wildlife incidents, etc.

ACE 1852521

K6-34 ASAP

SEGMENT AS / SL-01 SUBDIVISION: A SITE: 1 of 2 DATE 13 Aug 90

JSCG

NAME J. Schultz SIGNATURE Jerry Schultz

☐ YES ☒ NO PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

ADEC

NAME F. Bennis SIGNATURE

☐ YES ☒ NO PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

No oil observed

LAND MANAGER

NAME J. Merrick SIGNATURE John Merrick

☐ YES ☒ NO PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

EXXON

NAME T. Tomblin SIGNATURE

☐ YES ☒ NO PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

NO OIL OBSERVED

REVISION NO. 7/26/90

ACE 1852522 H/S

KG-34

SEGMENT AS/ SL-01 SUBDIVISION: A SITE: 2of2 DATE 13 Aug 90

USCG

NAME J. Schultz SIGNATURE Jerry Schultz

☐ YES ☒ NO PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

ADEC

NAME F. Bennis SIGNATURE Francis Bennis

☐ YES ☒ NO PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

2 small MS patties collected

LAND MANAGER

NAME J. Merrick SIGNATURE John Merrick

☐ YES ☒ NO PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

EXXON

NAME T. Tomblin SIGNATURE

☐ YES ☒ NO PRIORITY SITE FOR REASSESSMENT IN 1991

REASON:

MOUSSE PATTIES FOUND WERE COLLECTED

REVISION NO. 7/26/90

ACE 1852523

ASAP SHORELINE OILING SUMMARY

PAGE 1 OF

TEAM NO. Kodiak #5 | EXXON J Tomblin | SEGMENT AS/ SL-01
OG O. FitzGerald | USCG J. Schultz | SUBDIVISION A
ADEC F Bennis | LAND REP John Merrick | TOTAL NO. SITES 2
DATE 13 / Aug / 90 | TIME 16:40 to 17:00 | TIDE LEVEL 335 to 360cm Above MLL
TOTAL EST LENGTH OF SHORELINE SURVEYED: 200 m
SURVEYED FROM: ☑ Foot ☐ Boat ☐ Helo WEATHER: ☑ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ S
OIL CATEGORY LENGTH: W ___m M ___m N ___m VL ___m NO 200 m US ___m

SURFACE OIL

CHARACTER	SITE 1 DISTRIBUTION /C	/B	/P	/S	SITE 1 OILED ZONES SU	UI	MI	LI	SITE 2 DISTRIBUTION /C	/B	/P	/S	SITE 2 OILED ZONES SU	UI	MI	LI	SITE 3 DISTRIBUTION /C	/B	/P	/S	SITE 3 OILED ZONES SU	UI	MI	LI
ASPHALT																								
S.O.R.																								
POOLED																								
COVER																								
COAT																								
STAIN																								
MOUSSE																								
PATTIES/T.B.																								
FILM																								
NO OIL					X	X	X	X					X	X	X	X								
EST. SITE LENGTH					100m								100											

SUBSURFACE OIL

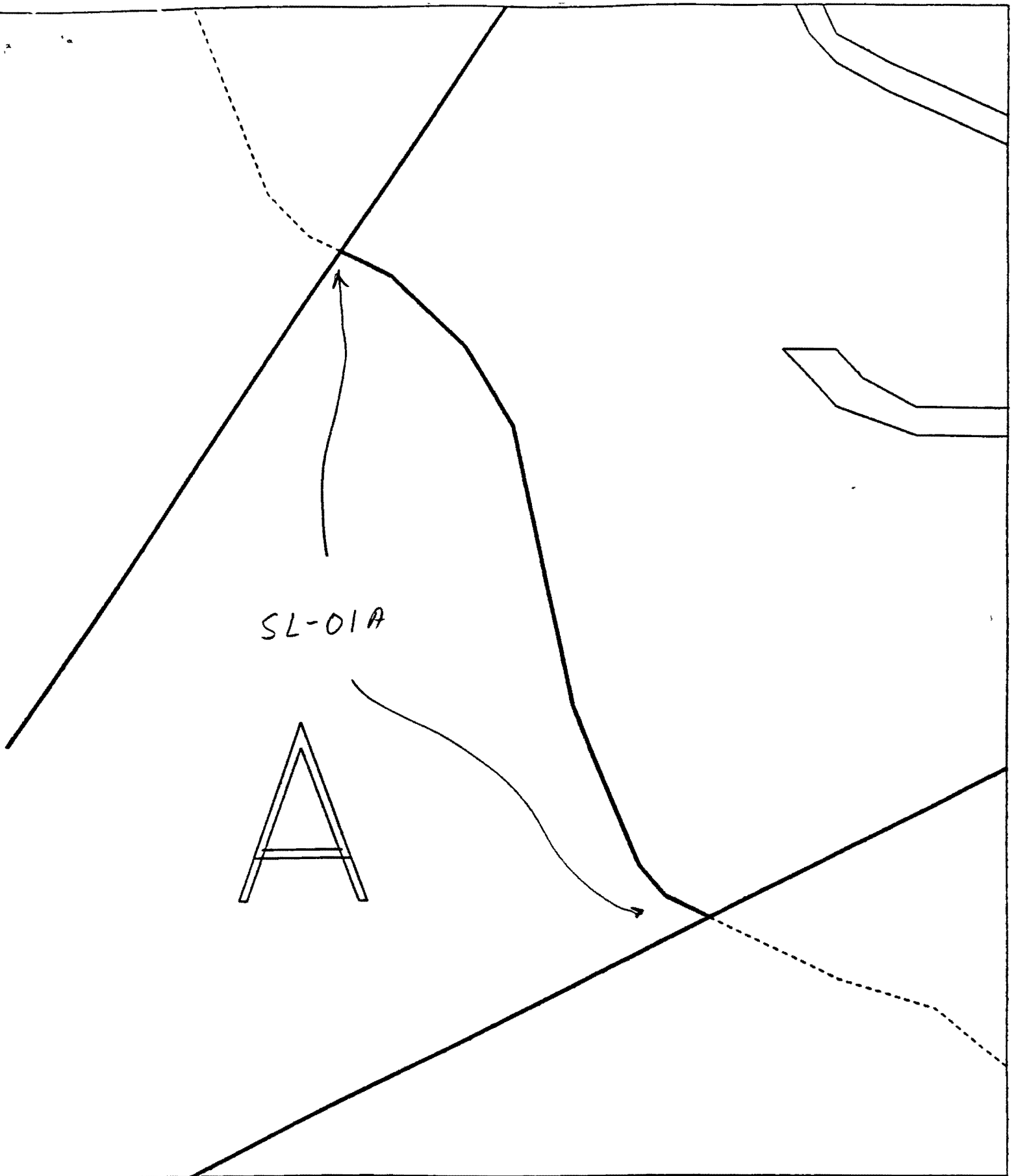
SITE NO.	PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER OP	OR	OF	NO	OILED INTERVAL (cm-cm)	CLEAN BELOW (Y/N)	PIT ZONE SU	UI	MI	LI	SURFACE-SUBSURFACE SEDIMENTS
							-						
							-						
							-						
							-						
							-						
							-						
							-						
							-						
							-						
							-						
							-						

Photographs:
Roll No. ASAP-06-05
Frames #13+14

COMMENTS This subdivision has two sites, one of which was clean (site #1) and the second had very minor oiling that was removed by the ASAP team (site #2). (2 mousse patties).

ACE 1852524

REVISION NO



SEGMENT K6-34 SL-1

Segment Location Map

Map Key: KODK6-34SL-1

EXXON

N

METERS

0 66 133

July 18, 1990

1:2614

ACE 1852525

SEGMENT ST/ K6-34-SL-1

SUBDIVISION K6-34-SL-1A

DATE 4 / 4 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 △

Pd - No Subsurface Oil

2 ▲

Pd Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

Splashed Distribution

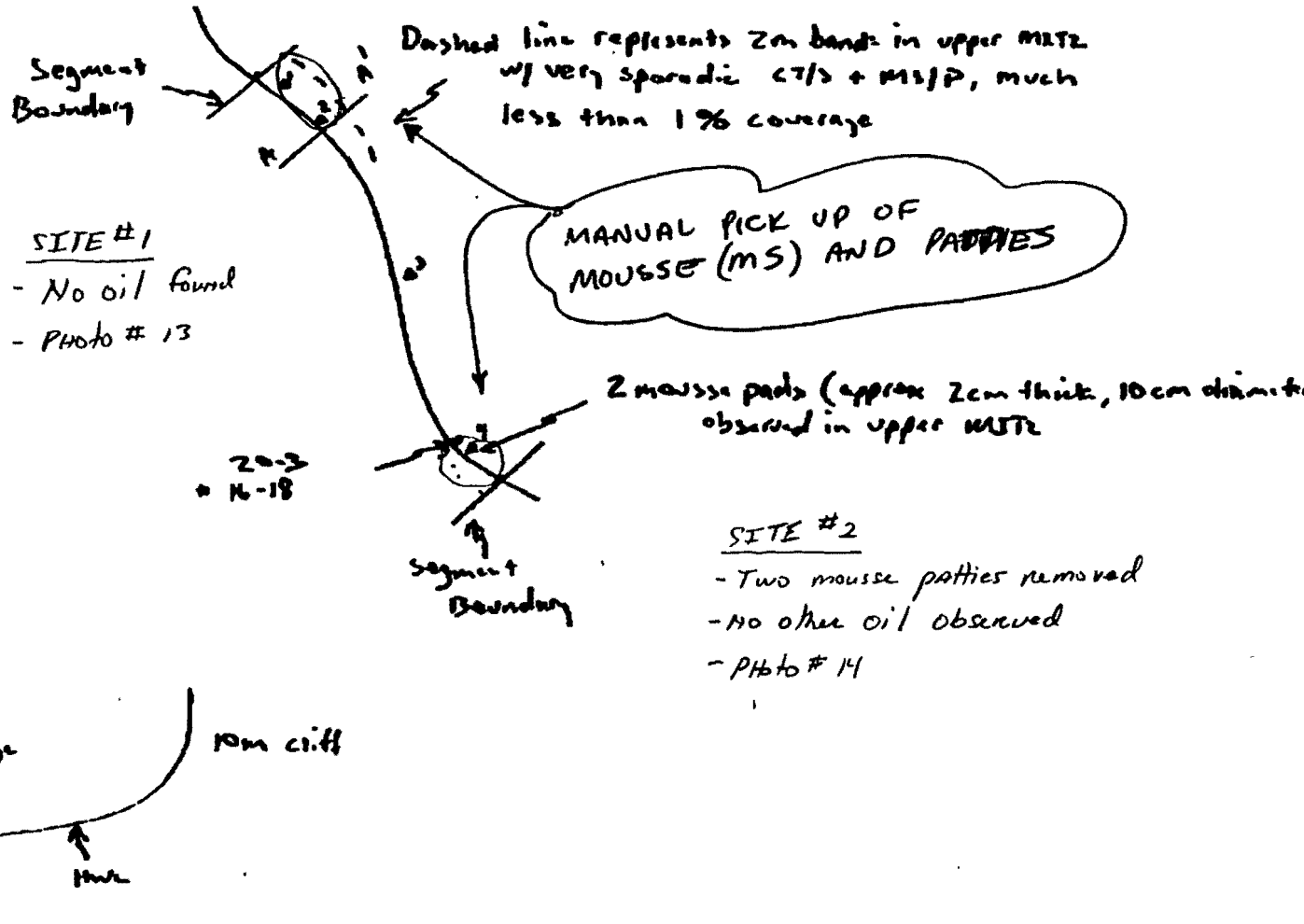
Oiled Vegetation

1 ⟵

Photo location, direction, and number

SKETCH MAP

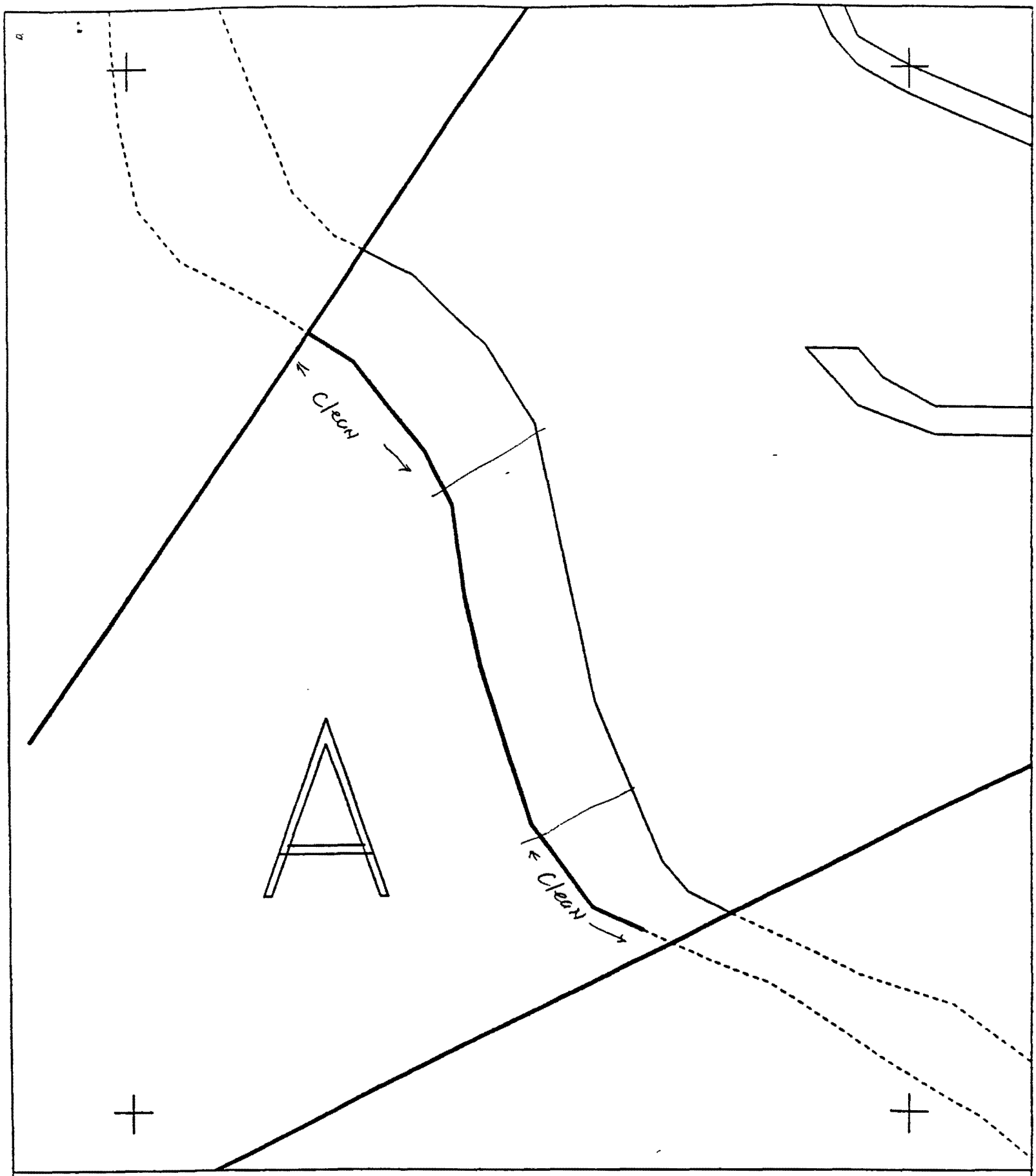
Approx Scale
1cm = 50m



Oil Character Length (m): AP 0 PO 0 CV 0 CT 100 ST 0 MS 100 PT 0 TB 0 FL 0 NO 310

REVISION:

ACE 1852526



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

K6-34 SL-1 A

ADEC Subsegment Length: 369m

METERS

0 66 133

AK State Plane Zone 4 1:2614

EXXON

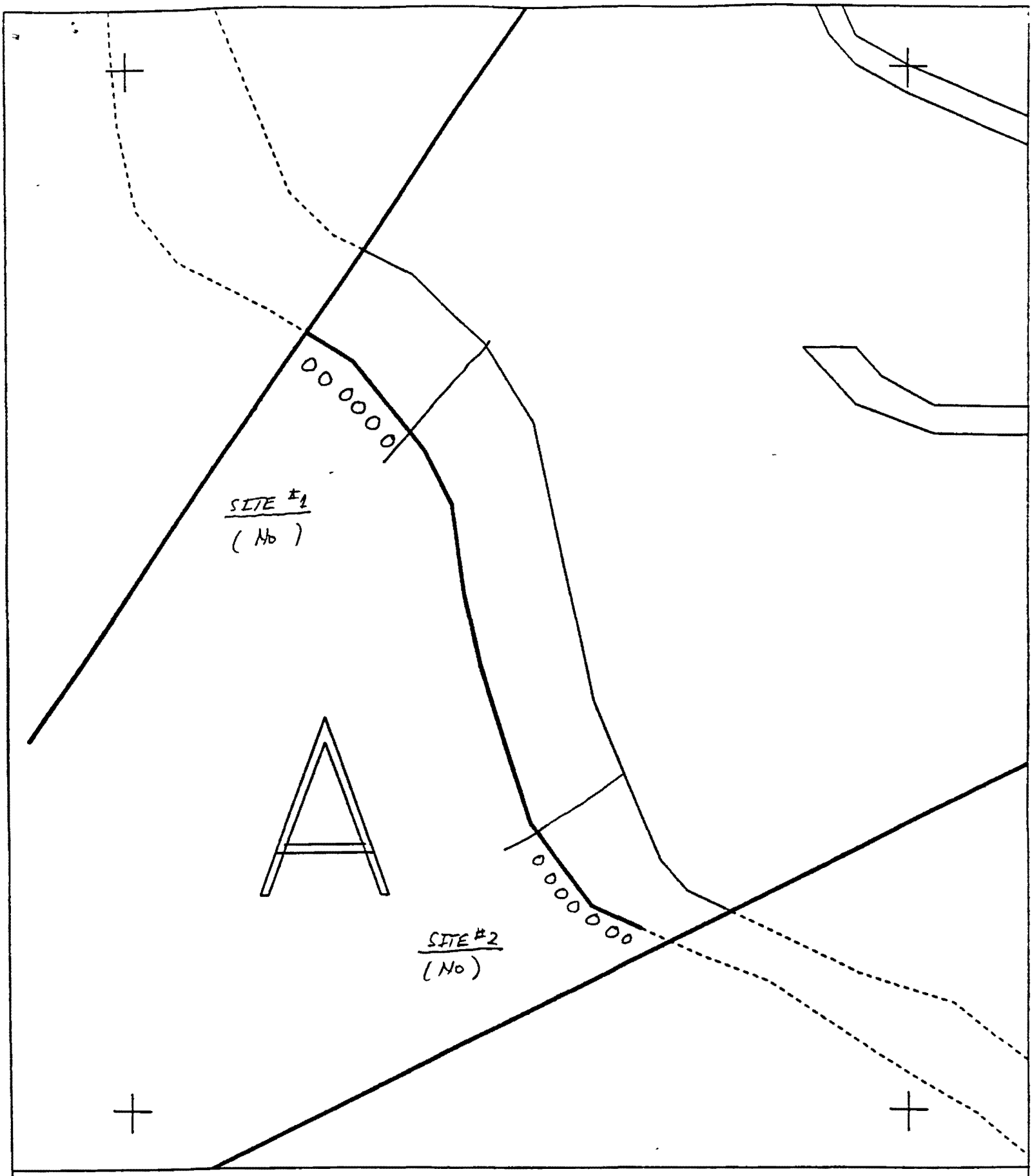
Subdivision Field Map

Map Key: KODK6-34SL-1A

Name: ACE 1852527

Date:

Date Entered:



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

K6-34 SL-1 A

ADEC Subsegment Length: 369m

METERS

0 66 133

AK State Plane Zone 4 1:2614

EXXON

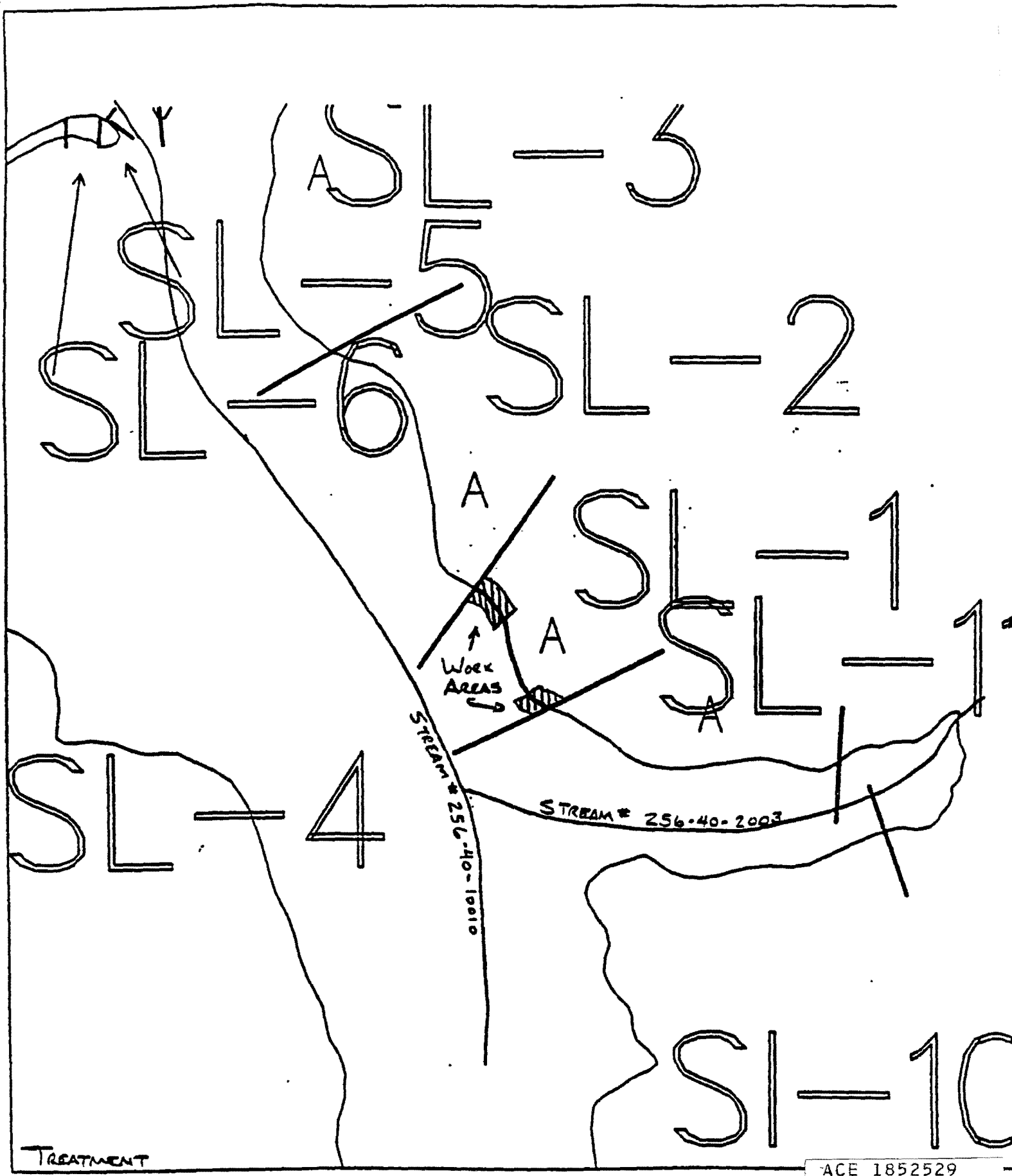
Subdivision Field Map

Map Key: KODK6-34SL-1A

Name: ACE 1852528

Date:

Date Entered:



ACE 1852529
-/S/C/FF

EXXON

Exxon Company, USA

ECOLOGY MAP
SEGMENT K6-34 SL-1

SUBDIVISION ___ (___of___)

★ Seabird Colony

▲ Active Eagle Nest

△ Inactive Eagle Nest