

K03-02 IBO4 WIMP SITE

1990

252-31-10020

ACE 1369711



89 Stream Survey

ASC NUMBER: LOCATION: STREAM NAME: KODIAK K-UNIT: USGS QUADRANGLE: SHORELINE TYPE: *Lagoon*

SEGMENT NUMBER: LOCAL STREAM #: YR CATALOGED: LATITUDE: LONGITUDE: LEGAL: WAVE EXPOSURE: *Low*

ASC NUMBER: *252-30-10020*
 SURVEY TYPE: *SS*
 METHOD: *F*
 DATE: *9/2/89*
 START TIME: *0834*
 STOP TIME: *1050*

TEAM RECORDER: *JEFFREY P. BARNHART*
 OBSERVERS: *Randy Talvi, Roger Dunbar*

AGENCY(IES): *ADFG*

PHOTOS TAKEN? *Y*
 Roll #: *89 RGT-001-K* Frames: *12, 13, 14*
 VIDEO TAKEN? *Y* Tape Number: *H5002*
 Counter Start: *0971*

SAMPLES TAKEN? *Y*

SAMPLE I.D. NUMBERS: 1. *A4-1-1*
 4.

2. *A4-1-2*
 5.

3.
 6.

OILING DATA

	LENGTH	WIDTH	M2	%	THICK	FEN	OIL TYPE
SITE 1	<i>850m</i>	<i>2m</i>	<i>1700</i>	<i>2</i>	<i>1.27cm</i>	<i>surface</i>	<i>ms</i>
SITE 2	<i>45m</i>	<i>33m</i>	<i>1485</i>	<i>3</i>	<i>1.27cm</i>	<i>surface</i>	<i>ms</i>
SITE 3	<i>100m</i>	<i>8m</i>	<i>800</i>	<i>10</i>	<i>2cm</i>	<i>2.5cm</i>	<i>ms</i>
SITE 4	<i>100m</i>	<i>8m</i>	<i>800</i>	<i>10</i>	<i>2cm</i>	<i>5cm</i>	<i>ms</i>
SITE 5							

OVERALL OIL IMPACT: *L*

OIL IN STREAM CHANNEL? *Y*

SUBSTRATE

Bedrock Granule
 Boulder Sand *x*
 Cobble *x* Silt *x*
 Pebble *x* Veget.

OIL ON BEACH WITHIN 50M OF STREAM MOUTH? *Y*

SPECIES	<i>PS</i>	<i>SS</i>			
COUNT	<i>395 live</i> <i>170 Dead</i>				

COMMENTS: *Grassy Lagoon, Hognak Island.*
Site no. A4-1. Pink Salmon (PS) count from high tide mark in stream to 120m into the estuary. Coho (SS) jumping in lagoon. No count.

IZHUT Bay, Aleutian Island.

FISH HABITAT ASSESSMENT FORM

TELE BARNHART

Randy TALUE

ROGER DUNBAR

REGION: PWS KP, CI ☒ AP OBSERVER(S)

SITE NO. A4-1 AERIAL PHOTO NO. K1-9 CAT NO. 252-30-10020

STREAM NAME * N LAT 58° 14' 40" W LONG 153° 19' 22"

DATE 09/02/89 TIME 0930 TIDE: Low slack Flood High slack Ebb

CATALOGED ANACRONOMOUS STREAM? ☒ N ANAD. FISH FOUND? ☒ N

SEE NOTES

OIL FOUND IN STREAM? Y N OIL FOUND NEAR STREAM (1 MI.)? ☒ N

OIL SAMPLES TAKEN? ☒ N ID NOS. A4-1-1 A4-1-2

CONVICTED TO 89 RGT-001-K

15 mm PICTURES TAKEN? Y N ROLL NO(S). 1957 9P6

EXPOSURE NO.	DESCRIPTION
<u>12</u>	<u>mausse patte on slate rock, 2 m from high tide mark.</u>
<u>13</u>	<u>125 yards from extreme tide line of stream on north shore of lagoon. mausse patte lying on bottom of lagoon. Distance to 900 yards from extreme tide line in stream. Lateral distance from extreme tide line of lagoon is 150 feet.</u>
<u>14</u>	<u>measured mausse patte 900 yards from extreme tide line in stream. This part of the lagoon near the lagoon mouth. Lateral distance from extreme tide line is 100 feet.</u>

VIDEO FOOTAGE TAKEN? ☒ N CASSETTE NO(S). H5008

DESCRIPTION: 0971-1330 Footage from high tide line in stream to mouth of lagoon. Mausse patte. Sampling mausse. Salmon in stream.

* Lat/Long Taken from pilot's aviation chart.

ANADROMOUS FISH OBSERVATIONS

	PINK	CHUM	RED	KING	COHO	DOLLY
Aerial						
Ground	395 live 170 dead				present.	

COMMENTS: Pink Salmon counted from high tide in stream too. 120 yards
into the estuary. Coho jumping in estuary. No count. Have not moved
into stream yet.

OIL OBSERVATIONS

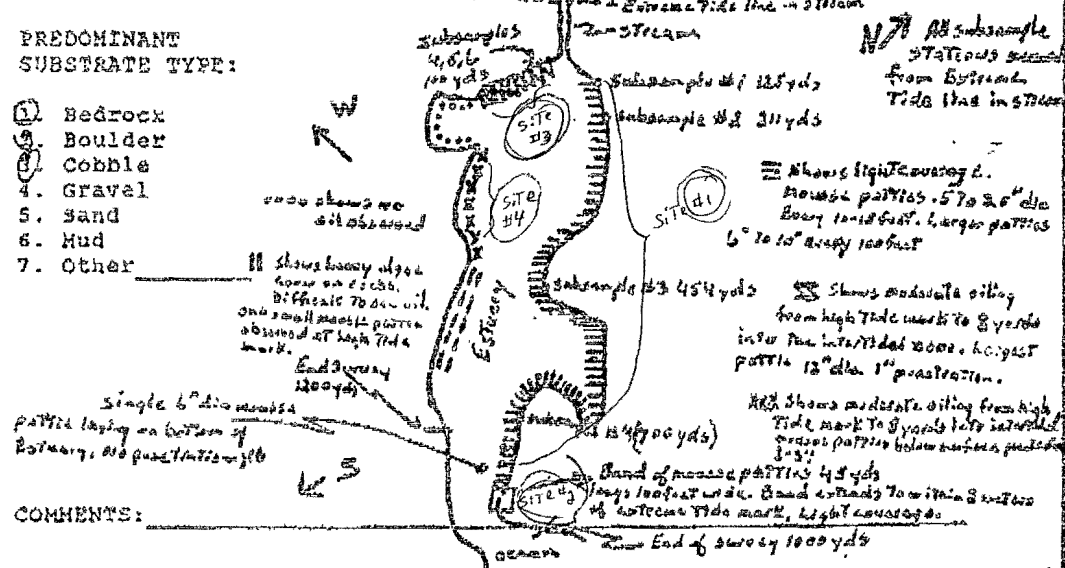
EXTENT OF OIL:

	WITHIN STREAM	OUTSIDE STREAM
SURFACE COVERAGE	—	See diagram.
SURFACE THICKNESS	—	See diagram.
PENETRATION	—	Surface to 2 inches.

OIL DISTRIBUTION DIAGRAM
(SHOW SAMPLING SITES)

PREDOMINANT
SUBSTRATE TYPE:

1. Bedrock
2. Boulder
3. Cobble
4. Gravel
5. Sand
6. Mud
7. Other



Anadromous Fish Habitat
Assessment
Exxon Valdez Oil Spill

Date: 07/02/89

Site Number: A4-1

Location of sampling point:

Latitude = $58^{\circ} 14' 46''$ N

Longitude = $152^{\circ} 19' 20''$ W

Comments: Lat/Long Taken from
pilot's aviation chart.

Type of Sample (Oil or Sediment
(circle one))

How many samples taken?

2 samples Taken

2 Volume of samples taken:
approx 250 ml each

Date and Time of collection:
9:30-10:30 AM 09/02/89

List of sample identification
numbers:

S2-1-1

S2-1-2

3 Description of sampling point
and sampling methodology:

Sampling points shown on oil
distribution diagram on the Fish
Habitat Assessment Form.

Methodology: Sampling protocol was
followed per Reef Plan, Aquatic
Fish Habitat Assessment Plan, page 7

4

5

References (Maps, photographs, Video footage):

Aerial photo 1 K7-9

Kodiak Area Salmon District map

35mm photos Roll # 1487 Frames 12, 13, 14

Video cassette no. H5008 - Footage 0971-1330.

Roll # Converted To
89-RGT-001-K

JLB

Field Observations:

observations were detailed in the oil
distribution diagram on the Fish
Habitat Assessment Form.

Jeff Bambert
1/2/89

9/2/89

Stream Survey

(6)

Afognak Is. A4-1

8:45-10:30 am HTLS.

1" saturation
weathered mouse pellets

Sand no sign
oil contamination

largest 1' wide 10" L From
H.T.L.S. to 8 yd ITZ
Moderate oiling, bedrock
substrate

loose (shale) and chipped gravel
very loose. Mouse patches
below surface, penetration 2-3"
in gravel and mouse splatters on
rock. Moderate oiling HTL
to 8 yd ITZ. Scattered
patches

heavy algae
cover on bank
small mouse patches
seen near H.T.L.

stream

oil

End Survey

H.T.L.S. to E.S. = approximately
1200 yds

HT = moderate oil contamination

LT = Light oil contamination visible near
H.T.L.

Video 0971-1330

my stream 70 yds - 50 hie Fish
→ Fecilage of H.T.L. of stream
to mouth, Mouse patches and
samples of mouse droppings
Fish in stream.

11:02 - 12:43 pm Afognak Is, Tonki Bay
Site # A4-2

1:30 pm -

Afognak Is., Macdonald
Lagoon. Izhut Bay
Site # A4-3

Sample	Distance
1	6 yd HTL
2	7 yd HTL
3	2.5 yd HTL # 3 yds
4	8 yd HTL
5	3 yd HTL
6	1 yd HTL
7	1 yd HTL

AFS 252-30-10080

ACE 6890980

ACE 6890981

1325

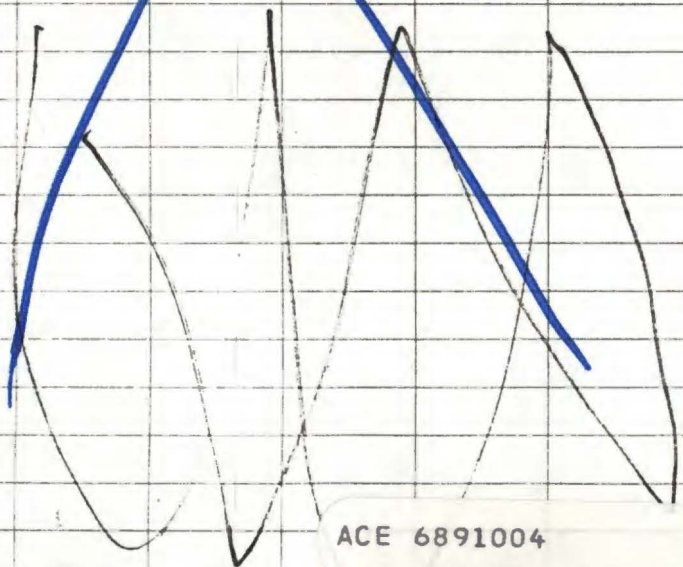
Sa Khoi Lagoon

Stream 102 & 101

No Booms Vis

1615 arrive Kokiak

R.S. 8/13/89



ACE 6891004

9/2/89

A4-1

0845

cobble Boulder

125 yds from Extreme

#1 high tide up stream found

weathered mouse 1/4 in thick

6cm 15" x 5" 2 meters from high

tide on Large rock melted
down rock

130 yds 4" patty in cobble
≈ 2m from high

≈ every 15' see small

2" patty

ACE 6891005

#2 another 6x8 patty
from high

3 8" patties in grass
2m from high
Mixed with grass & fenchone
at 1st pt from creek

76 5 4
← 362 yds

#4 3m from high 6' pattie
lots of organics

~~A4-2 11:02~~

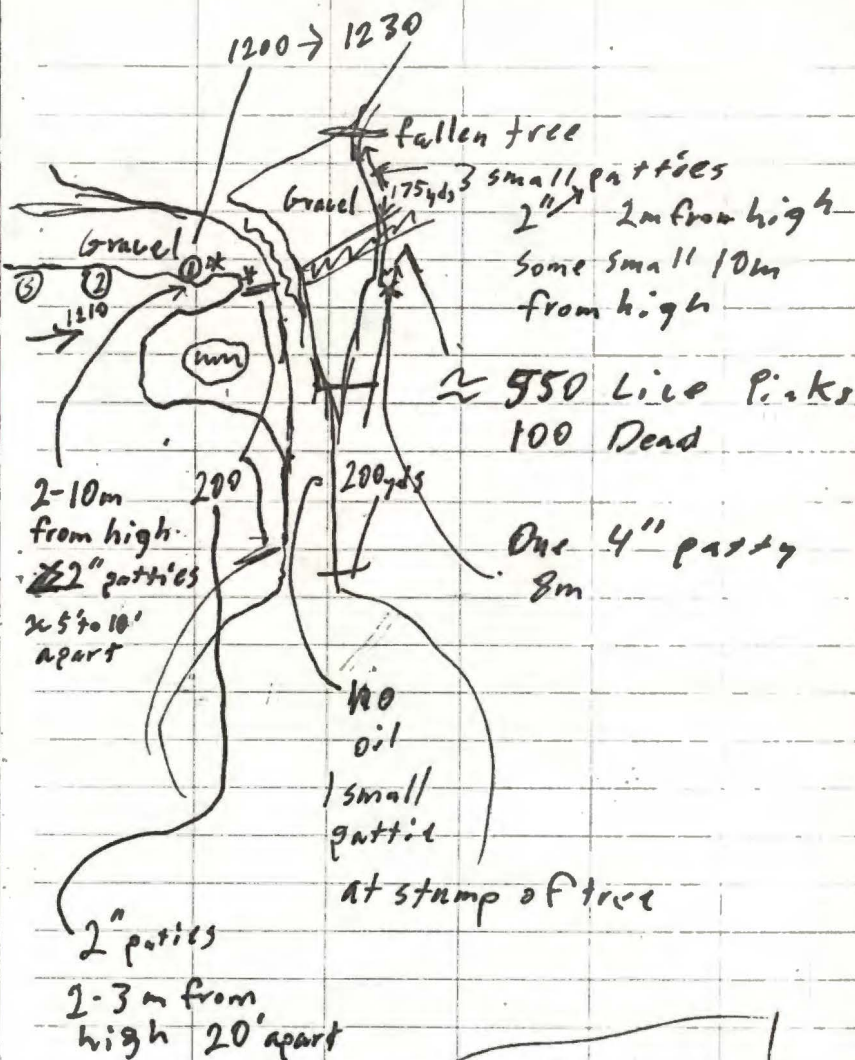
~~Tonki Bay Stream 101~~

~~252-10-10010~~

~~photo# K1-9~~

1013 Low

ACE 6891006



≈ 550 Live Pinks
100 Dead

One 4" patty
8m

no
oil
1 small
pattie
at stump of tree

2" patties
2-3m from
high 20' apart

1800 Live

ACE 6891007-L/FF

22

pink salmon court

Extreme Tide line up stream.

58° 14' 40" N Lat

N 152° 19' 20" W 40 m

170 dead
395 Live

5 yard band of cobble / boulder grading into mud
of estuary bottom

- Subsample #1 weathered moss:

- 21 yds subaple #2 mouse/spine needles

100 yds
from extreme tide
mark up stream
subsample 15
Time 10:30 AM

Subsample
#16 10:31 AM

Defect from
subsample #5
mousse/organic)
bird feathers 5

Subsample #7 /
mousse / feathers
spruce needles.

Every 10-15 Feet (2 meters from high tide mark)
occurs a small mussel patch 5" x 9 to 30" in dia.
Also every 100 feet occurs larger patches 6" - 10"
After observations from HT across to 400 yd mark

454 yds subsample # 3 mosses / grass / feathers

Taken 2 meters from high tide mark

2545 904557 904558 2-6" part. as
2545 904557

748 S

2-6" patties in rack means

91493

700
subsample
#4
mouse
3 meters
from HT mark

mussel patch lying on estuary bottom
10:00 AM. No penetration

end of
survey

Band of oiling (mousse pattern) 45 yards
long 10 feet wide, starting 2 meters from open
tide toward estuary, light tide line
end of survey 1000 yards

measurements taken by pacing following curvature of shoreline.
See Randy's notes for other info

23

stop
site A4-2 11:04 AM

58° 12' 48" N Lat
152° 08' 00" W Long

Head of Tonk: Bay

STeam # 252-10-10010

Uredo 1330-2153

~~Tonk. Bay~~

Band continues

Henry
Oling T B
LIS

scattered patches

Footcunt S.W.T.
take out lot 1300 PS
intertidal spawning

Discontin. and band of mouse pelties 15" to 6" at the last

high tide mark which is 9 feet from storm tidal line, Penetration
up to 4" is (potatoes have melted into the gravel)

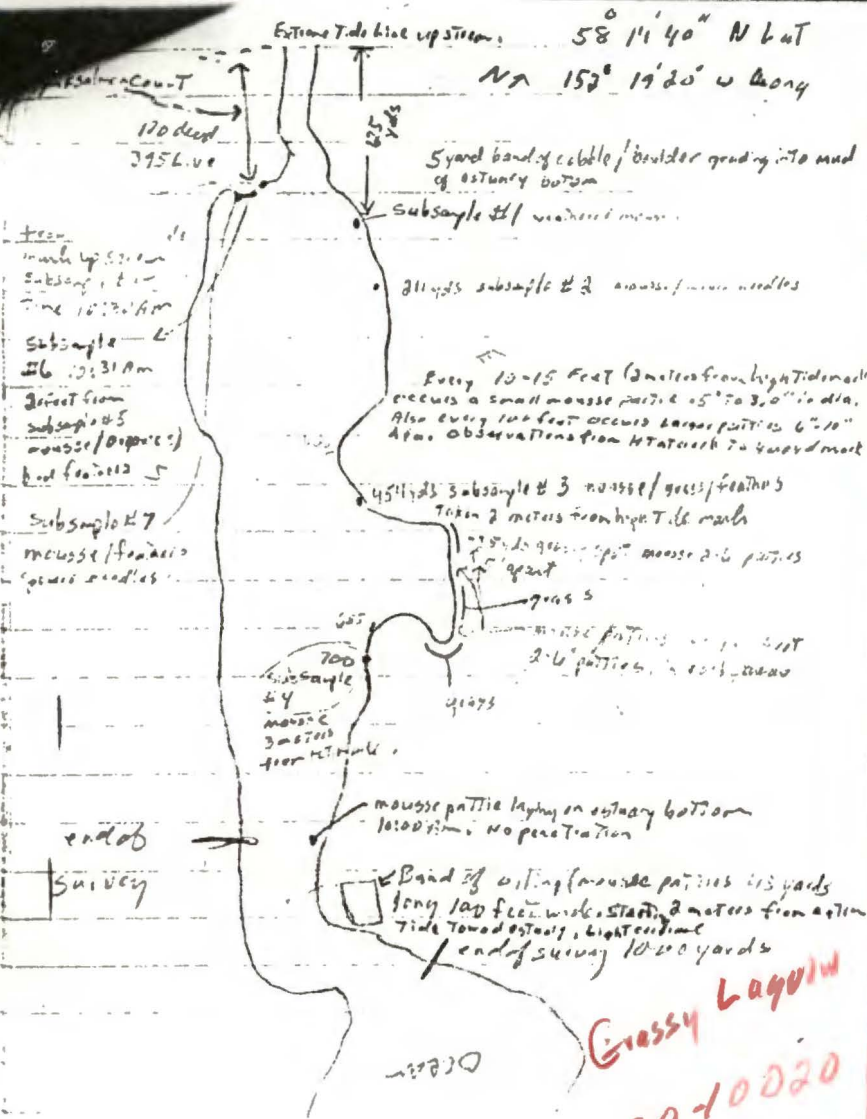
4 Grand substrate Vents 1330 - Mousse getting worked
down into gravel by Tide Action. Bay + Beach

Band of surface subsurface mousse (stickwax) 3-7 feet wide 0-8" deep M-H. Coverage of oil in band is 85-90%. Mousse is mixed with spruce needles and other organics. The oil is being worked into the gravel by the wave action. Band continued westward down the beach past my survey area. Upper limit of Band is approx 9' from storm tide line. 0-156

• View 1437-1489 footage of 136
Cataloged & uncataloged Still on Head of Turki Bay 362

ACE 6890978

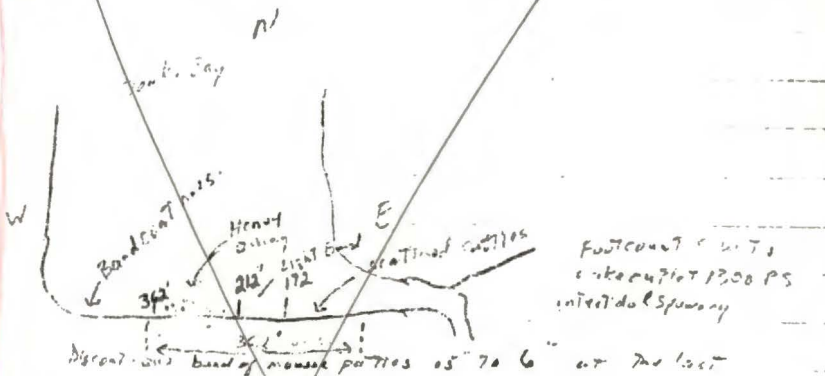
ACE 6890979



measurements taken by survey following coastline of beach line
 1000 yds from HT mark

23
 Site A4-2 stop 11:04 AM 58° 12' 48" N Lat 153° 08' 00" W Long

Heddy Tank Bay
 Stream W 253-10-10010 Uids 1330-2153



high tide mark which is 9 feet from stream tidal line, Penetration 14 to 4" is (patten have melted into the gravel)
 broad substrate Uids 1330 - mouse getting worked down into gravel by Tide Action. Bay & Beach
 Band of surface/subsurface mouse (stickwax) 3-7 feet wide 0-8" deep M-H. Coverage of oil in band is 85-90%. Mouse is mixed with spruce needles and other organics. The oil is being worked into the gravel by the wave action. Band continued westward down the beach past my survey area. Upper limit of Band is approx 9' from stream tidal line.

Uids 1437-1449 footage of
 oil document along stream head of Heddy Tank Bay

A4-1

"Rite in the Rain"
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ALL-WEATHER

LEVEL

Notebook No. 311-M

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ACE 6890973

Alaska Dept of Fish + Game/Hab.
Kodiak, AK 486-5033

Kodiak Archipelago
Anadromous Fish
Habitat Assessment

ACE 6890974

1
Anadromous Fish Habitat
Assessment
Exxon Valdez Oil Spill

Date: 09/03/89

Site Number: A4-1

Location of sampling point:

Latitude - 58° 14' 40" N

Longitude - 152° 19' 20" W

Comments - Lat/Long Taken from
pilots aviation chart.

Type of Sample: (O) or Sediment
(circle one)

How many samples taken?
2 samples Taken

ACE 6890975

9/1/89 Depart Airport 9:15 AM. Roger Claycomb
Twinstar helicopter 96T. Company PHT.

checked possible Anadromous Fish streams (genie) from
Bear Cove to North end of Shuyak. The 3 streams we
checked were small and all were blocked by extensive
log piles (9:45 AM) observed no fish via aerial survey
stop stream # 251-81-10090 10:05 AM.

oil present. Found mouse splatters + small patches to within
40 yards of high tide mark up the stream.
Pink salmon spawning in this intertidal area.

counted 400 pink salmon from present tide line up creek
to high tide mark. Estimated carcasses 100 in same
stretch of stream. video end 0769

still 35mm photos Roll # 19SA Frame's 7, 8, 9

Ted Boice → 2000 bags oil in 8 days (no round bags)

2nd cleaning. First cleaning 500 bags Bear Cove.

First Cove on west side, just outside bear cove Boulder

Rock beach. Lots of oil penetration to 3' deep

ACE 6890976

Stopped 10:10 Red Fox Bay

(A3-2) video 0769-0971 Red Fox Bay,
uncatalogued AFS
STAT Area 251-50 stream # 2504 from Kodiak

area Salmon Distinct Map. counted 1000s present
in stream from high tide point to current tide level

in lagoon. Also cages jutting in Bay.

still photos - 19SA Frame 10 & 11

A3-3 58° 14' 49" N Lat calculated from
152° 19' 30" W Long map.

Stream 302 Jethut Bay landed 3:00pm Departed 3:20

pink salmon present in stream/cages off creek mouth.

Estuary flooded by tide. unable to survey Dyat for
Kodiak.

JFB.

9/2/89 Depart Airport 8:15 AM. Roger Claycomb
pilot. Company PHT. Twinstar helicopter 96T

stop site A4-1 8:34 AM Depart 10:50 AM.

200 200 400 58° 14' 40" N Lat

500 600 700 152° 19' 20" W Long.

Stream # 250-30-10020

ACE 6890977

ORIGINAL
RECEIVED
7/21/89

SEGMENT INSPECTION RECORD

ADEC # K3-2

Shoreline Segment: IB-5

Shoreline Treatment Process(es) Completed for this Segment

☐ Hot water wash	☐ Mechanical
☐ Warm water wash	☒ Non-mechanical
☐ Water deluge	☐ Other

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments Manual removal of mousse patties and contaminated drift material.

Signature Jack A. Rickner

Date 7/21/89

Time 0748

Printed Name Jack Rickner

Existing Shoreline Condition As
Visually Determined by USCG

Surface Oil

Percent	Degree of Oiling
☐	Heavy
☐	Medium
☐	Light
☐	Very Light

100%

Subsurface Oil

☐ Yes ☐ No

Comment Below

☐ Reassessment
☐ Yes - Necessary☐ No - Not necessary unless re-oiled

ADEC Rep

Comments

Existing Shoreline Condition As
Visually Determined by ADEC

Surface Oil

Percent	Degree of Oiling
☐	Heavy
☐	Medium
☐	Light
☐	Very Light

100%

Subsurface Oil

☐ Yes ☐ No

Comment Below

☐ Reassessment
☐ Yes - Necessary☐ No - Not necessary unless re-oiled

Signature

Date

Time

Printed Name

FOSC Rep

Demobilization approved/disapproved

Comments

See comments on attached sheet.

Signature

Date

Time

Printed Name

Copy: Exxon

ADEC

FOSC

ISCC

Return All Signed Originals to Exxon

ACE 6890993 + 5

SEGMENT INSPECTION RECORD

ADEC #

Shoreline Segment: K3-2-IB5

Shoreline Treatment Process(es) Completed for this Segment

☐ Hot water wash ☐ Warm water wash ☐ Water deluge	☐ Mechanical ☒ Non-mechanical ☐ Other
--	---

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Exxon Comments

Signature _____ Date Time

Printed Name

Existing Shoreline Condition As
Visually Determined by USCG

Surface Oil

Percent	Degree of Oiling
	Heavy
	Medium
5%	Light /
	Very Light

100%

Subsurface Oil

☒ Yes ☐ No

Comment Below

☒ Reassessment
Yes - Necessary

☐ No - Not necessary unless re-oiled

ADEC Rep

Comments

Please see reverse.

Signature *Clarke A Pelz* Date 7/31/89 Time Noon

Printed Name Clarke A Pelz

FOSC Rep Demobilization approved / disapproved

Comments

See comments on reverse

ACE 6890994

Signature *P.J. Cormier* Date 27 July 89 Time 1900

Printed Name P.J. Cormier, LT, USCG

Copy: Exxon ADEC FOSC ISCC Return All Signed Originals to Exxon

This segment is predominantly well sorted gravel beaches with some sheltered rock headland. Oil remains sub-surface in a 2 meter wide band at the spring high line, mixed to a depth of 16-30 inches by wave action. Further type A is not required; type B processes may be considered.

Jill Baxter

ADEC Comments: The bulk of this oil appears to have worked down within the rocky beaches, and is well described above. Reoiling was evident here as mousse patties and may continue. Since the gross surface oiling has been removed, and rock wiping would be nonproductive demobilization is approved.

Clark & Kelly

US FWS Comments: I made the same observations as Todd & Clark mentioned above and agree that further type A would not be productive at this time.

(version 6/14/89)

SHORELINE CLEANUP PROGRAM

DATE 6/28/89

SHORELINE SEGMENT IB-5

LOCATION: (see enclosed map) NORTHWEST SMALL BAY-IZHUT BAY,

AFOGNAK ISLAND

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

Recommended Cleanup Activity(ies):

Manual removal of oiled debris and mousse patties.

After the fall bird migration, a reassessment of the remaining oil and additional cleaning techniques (such as relocation of the oiled splash zone beach material into the active surf zone) may be appropriate.

Other techniques may be used as appropriate.

Priorities Considerations: Class 4-A

KISCC considers this a sensitive area due to salmon runs up this lagoon and local seabird colonies and pinniped haulouts within the bay.

Ecological Constraints (from site survey):

Avoid contamination of lower intertidal zone.

Avoid contamination of lagoon by refloating oil during cleanup.

Archeological Constraints (from site survey):

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

Douglas Regan
State Historic Preservation Officer *

Date: 6/29/89

ISCC: _____

Date: _____

EXXON: [Signature]

Date: 7/1/89

FOSC: [Signature] RWD 7/1/89

Date: 7/13/89

Type A removal of surface contamination only.

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

ACE 6890996

SHORELINE OIL EVALUATION FORM - KODIAK

Date: June 17/89 / Time: 17:40

Observer: MIKE MILES

Surveyed From: Foot/Boat/Helio/Plane

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION AFOGNAK ISLAND
LOCATION 12 HUT BAY

SEGMENT I.D. K-3-2-1B-5

LENGTH OF SHORELINE SEGMENT: 1500 m

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

SHORELINE:

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

Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B 5 % / C 30 % / P 35 % / G 5 % / S 5 % / M % / R 20 %

Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type logs + shells
seaweed

OIL

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

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

OIL DISTRIBUTION

Continuous: Y/N Segment % No. Bands Width

Sporadic: Y/N Segment % 70 Min/Max Dia ≤ 10 cm Impact Width 5 to 8 m

Est. Oil Thickness where > 1cm: 4/1A cm SU / SP / UP / MID / LO

Est. Oil Penetration: 0-7.20 cm in spring tide beach SU / SP / UP / MID / LO

Layers? Yes/No No# Layers Oil Weathering

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

OIL MORPHOLOGY

Pooled Oil 0 % "Free" Oil 50 % Spattered 50 % H/M/L/VL Sheen %

OIL WEATHERING (LOW)

Fresh Oil 0 % SU/SP/VP/MID/LO Choc Mousse 50 % SU/SP/VP/MID/LO

Pancake Mousse 30 % SU/SP/VP/MID/LO Asphalt Mousse 20 % SU/SP/VP/MID/LO

Tar Formation 0 %

Comments:

SEE ATTACHED MAP AND COMMENT SHEET

MIKE MILES

JUNE 17/89

AF-GNAK ISLAND

12 HUT BAY

SEGMENT K-3-2-1B-5

COMMENTS

SHORELINE OIL EVALUATION FORM

This section of shoreline consists of a number of rocky headlands which separate small pebble (near 1B4) to cobble beaches. A low gradient stream/estuary drains into the middle of this segment.

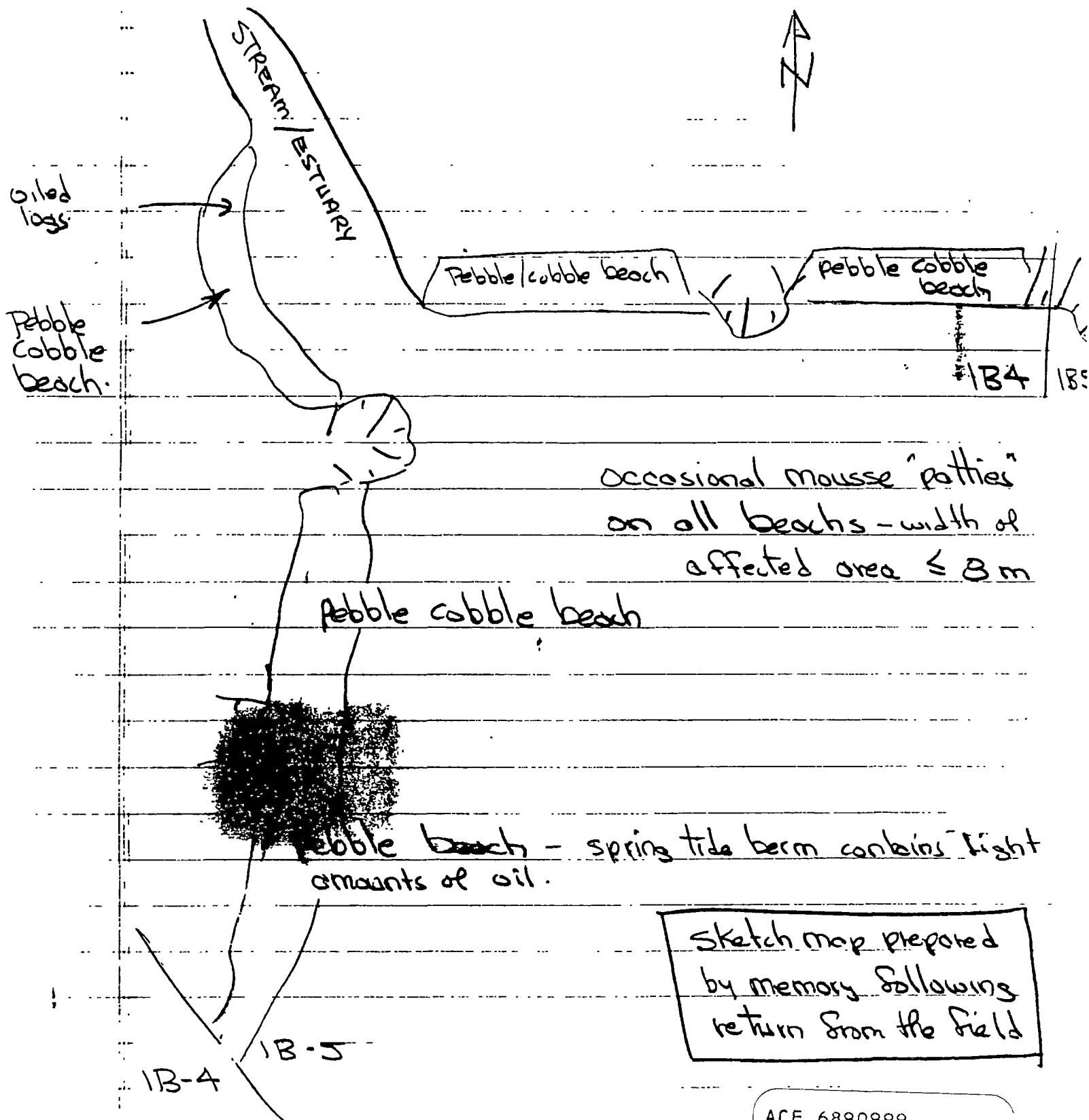
The spring tide storm berm on the pebble beach near 1B4 is contaminated with mousse over a width of 1 to 4 m. The mid to upper ITZ of all beach areas contain occasional mousse "potties" on the beach surface. No oil was observed during a low elevation reconnaissance of the stream/estuary.

CLEAN-UP

- Manual removal of oiled debris and mousse
- Move contaminated pebbles and cobbles in the spring tide berm into the lower surf zone. [Natural wave action will however eventually clean these sediments and the amount of oil in these materials is quite small]

June 17/89
mike miles

AFOG'AK ISLAND
IZHUT BAY
SEGMENT K-3-2-1B-5



DOCUMENTATION:

Map/Aerial photo marking segment boundaries See attached

VTR: Y/N Tape Number(s) _____

Photography: Y/N Roll Number(s) JT-1

Sample Numbers Collected: N/A

ACE 6891000

ECOLOGICAL EVALUATION

LOCATION: Izhut Bay SITE: NW Lagoon OBSERVER: J. Tarpley
 LOCATION PREFIX: K-3/IB SEG. NO.: K-3-2-IB-5 LENGTH: 1500 (M)
 DATE: 6/17/89 TIME (HHMM): 1700 TIDE HT.: +1.25 (M)

OILED ZONE: Splash High Medium Low

SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud

LIVE BIOTA

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

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

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

Littorina

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

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

OTHER OBSERVATIONS: Clam & Mytilus shells along beaches. All biota
mid to low ITZ. 1 Large Nereid polychaete worm on beach.
Salmon run lagoon & stream.

CLEANUP PRECAUTIONS: Avoid oiling lower ITZ or any healthy organisms.

MAMMALS: Otters 1 Harbor Seals 2 Sea Lions _____ Whales _____
 Other Scatter Foraging in small bay

BIRDS: 2 Brandt's Cormorants, 1 Puffin

GENERAL OBSERVATIONS: It was a hot afternoon and mousse was liquifying
over rocks into cracks. Lots of pollen in water. Biota not largely
affected by mousse patties. This segment has varying ecological impact
due to changing biota. Most of the beach is lacking any biota however one
section near head of lagoon (south side) is categorized as to what's listed above.

ACE 6891001

CULTURAL RESOURCE EVALUATION

Date 6-17-89 Location Izhut Bay Site northwest coast

Location Prefix K-3-2-IB Segment # 5 Length 1500

Survey Method:

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

Ground ✓ (G - indicate on map)

Known cultural resources (AHRS #) none Data Source _____

Oil conditions/beach visibility light

Width of beach zone surveyed 5 m Tree fringe surveyed 5-15 m

Cultural resources observed in beach zone (AHRS code) none

Cultural resources observed in tree fringe (AHRS code) none

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

Shore Profile coarse & shingle, or sand, boulder & shingle beaches below low, subsided uplands, steeply rising uplands, or rock faces. The northwest corner of the segment is a small cove with a large salmon stream

Fresh Water Sources large stream

Sea Exposure still exposed despite its location in the NW corner of the Bay

Access/Safety accessible by boat or helicopter

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

Monitoring during cleanup needed yes/no collection yes/no

Photos: Color Roll # _____ Frames _____

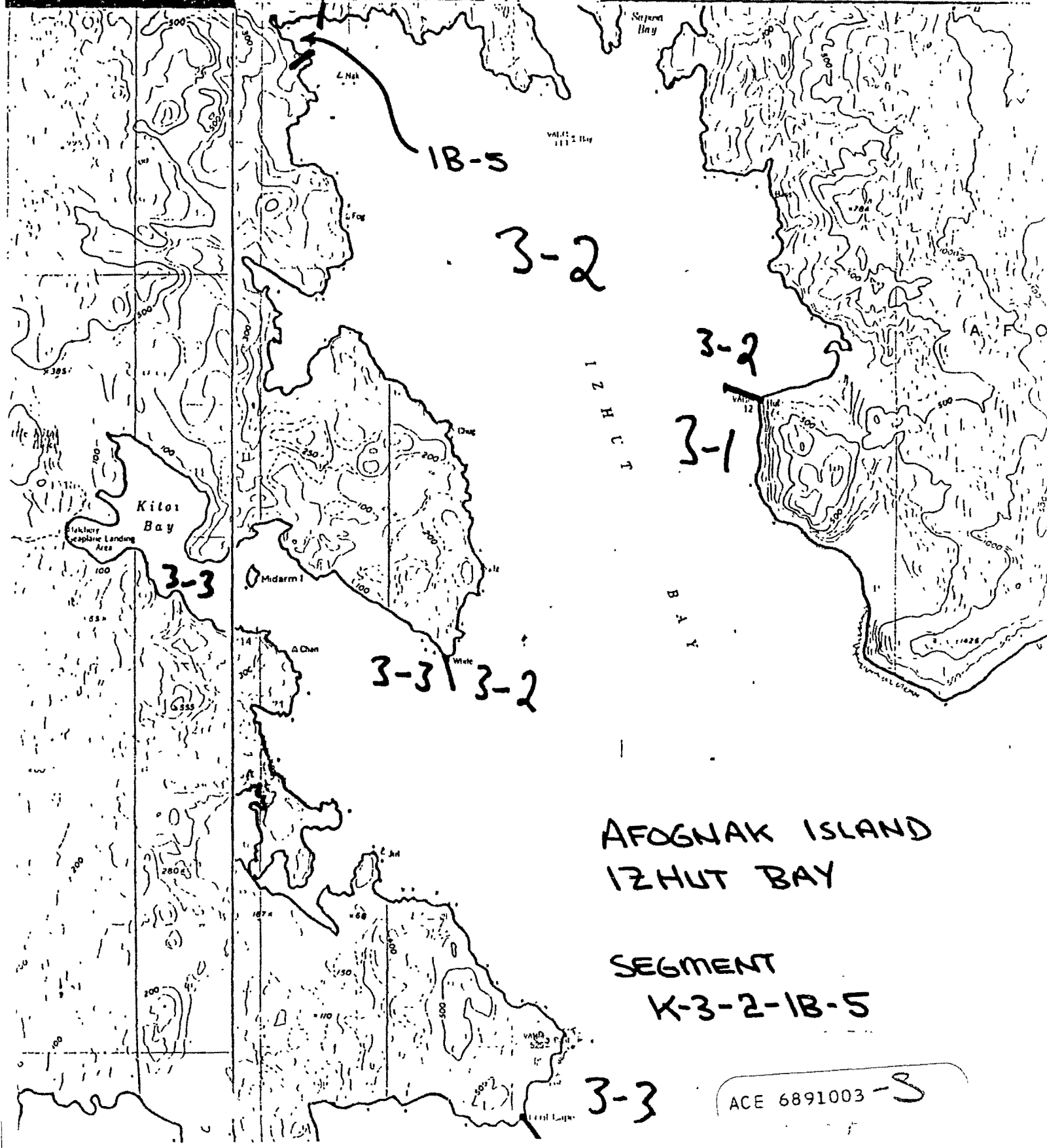
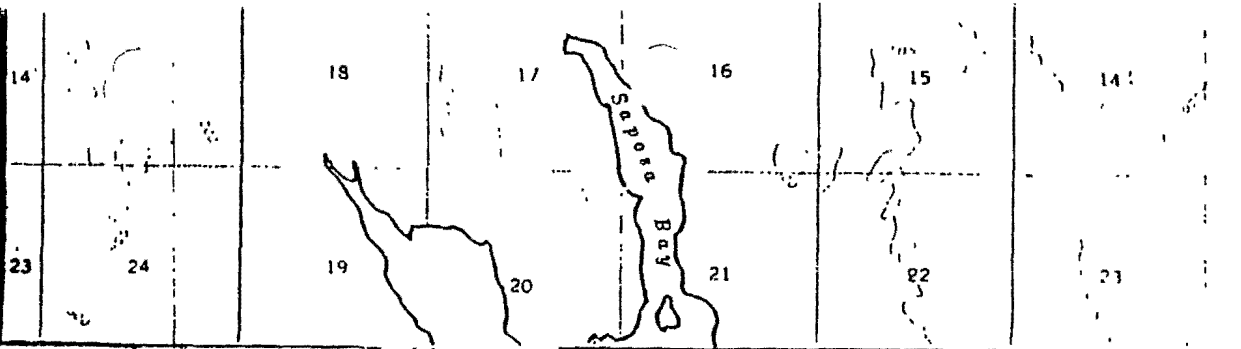
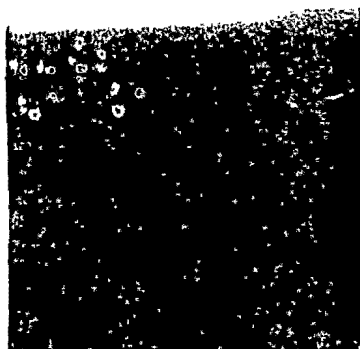
B/W Roll # may 6 Frames 19

Observer(s) Mike YARBOROUGH Rich Kuecht

Time survey started 11:45 AM 5:05 PM Time survey ended 12:10 PM 5:57 PM

Cultural resource considerations/restraints:

IF heretofore undiscovered cultural remains are found during clean-up,
contact Exxon's Director of Field Archeology immediately.



AFOGNAK ISLAND
IZHUT BAY

SEGMENT
K-3-2-1B-5

3-3

ACE 6891003-S

ASAP

FIELD SHORELINE COMMENT SHEET

K-3-2

SEGMENT AS/ IB-05 SUBDIVISION: A SITE: 1 DATE 12 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:

Only 1 ms patty observed / removed along stream bank. I did not have the opportunity to observe east end of treated area. SSAT indicated only a small amount of ms present.

LAND MANAGER

NAME T. Drabek SIGNATURE Tony Drabek

☐ YES ☒ NO PRIORITY SITE FOR REASSESSMENT IN 1991
REASON:

EXXON

NAME T. Tomblin SIGNATURE T. Tomblin

☐ YES ☒ NO PRIORITY SITE FOR REASSESSMENT IN 1991
REASON:

ALL VISABLE OIL REMOVED

ACE 6890948 + S

A

A'

SSC

Approx 2m band 0.5% coverage

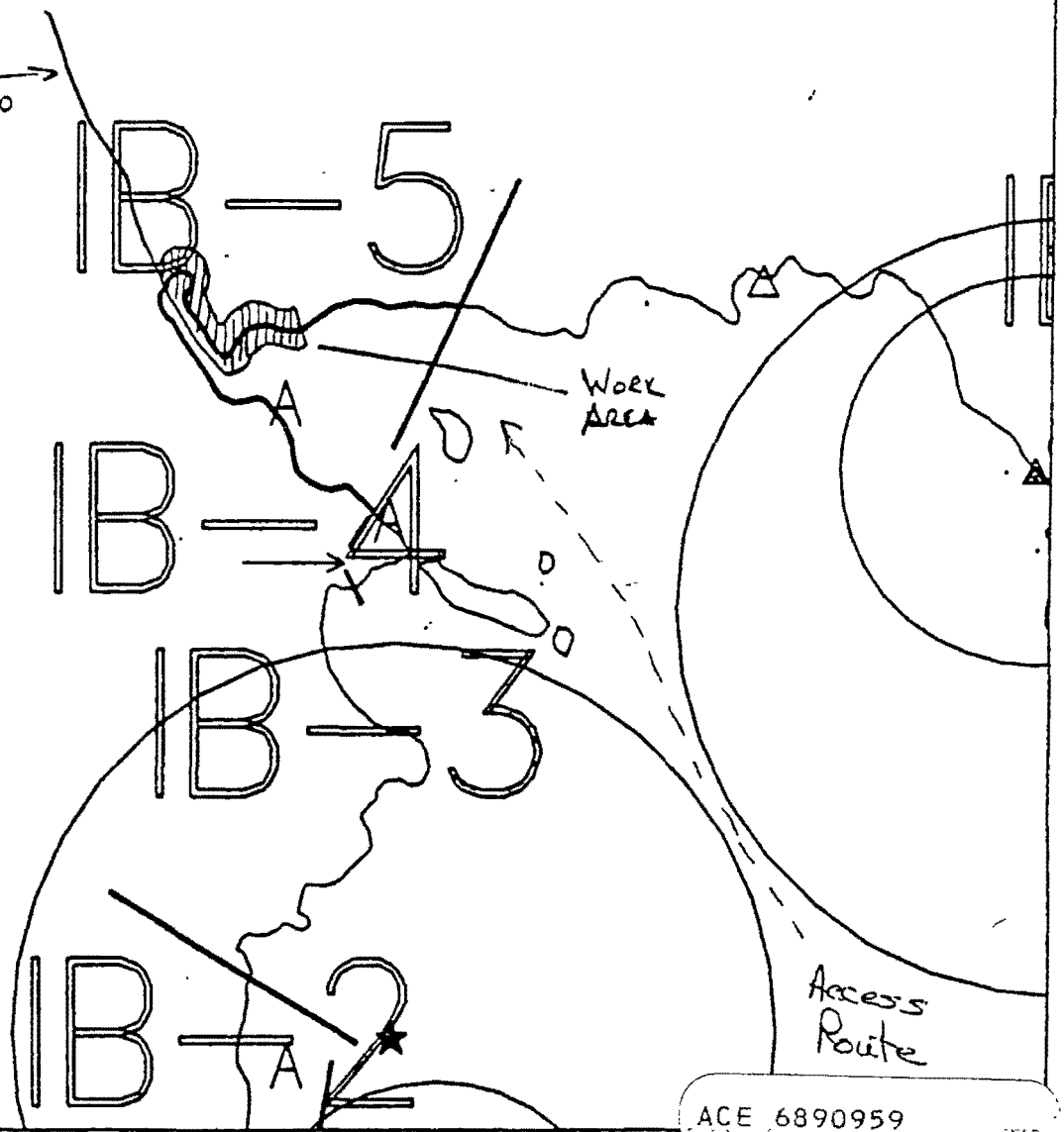
Beach comprised primarily of flat
cobbles and rocks

IB-5 site

1. Access route approved.

Mike Luke

STREAM #
252-31-10020



ACE 6890959

TREATMENT



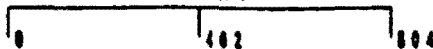
Exxon Company, USA

Map Key: K00-IB-5

June 10, 1990



ECOLOGY MAP
SEGMENT K3-2 IB-5
SUBDIVISION --- (--- of ---)
METERS



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

1 inch = 1320 feet

ASAP SHORELINE OILING SUMMARY

PAGE 1 OF 1

TEAM NO. Kodiak #5 EXXON T. Tomblin SEGMENT AS/ IB-05
 OG D. Fitzgerald USCG J. Schultz SUBDIVISION A
 ADEC F. Bennis LAND REP Tony Drabek TOTAL NO. SITES 1
 DATE 13 Aug 190 TIME 13:10 to 13:30 TIDE LEVEL 110 to 100 cm above MLW
 TOTAL EST LENGTH OF SHORELINE SURVEYED: 400 m
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WEATHER: ☒ Sun ☐ Clouds ☐ Fog ☐ Rain ☐ Snow
 OIL CATEGORY LENGTH: W m M m N m VL 20 m NO 380 m US m

SURFACE OIL

SITE 1

CHARACTER	DISTRIBUTION				OILED ZONES			
	/C	/B	/P	/S	SU	UI	MI	LI
ASPHALT								
S.O.R.								
POOLED								
COVER								
COAT				X		X		
STAIN								
MOUSSE								
PATTIES/T.B.								
FILM								
NO OIL					X		X	X
EST. SITE LENGTH					400m			

SITE 2

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

SITE 3

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

SUBSURFACE OIL

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

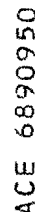
Roll No. ASAP-06-5

Frames 8

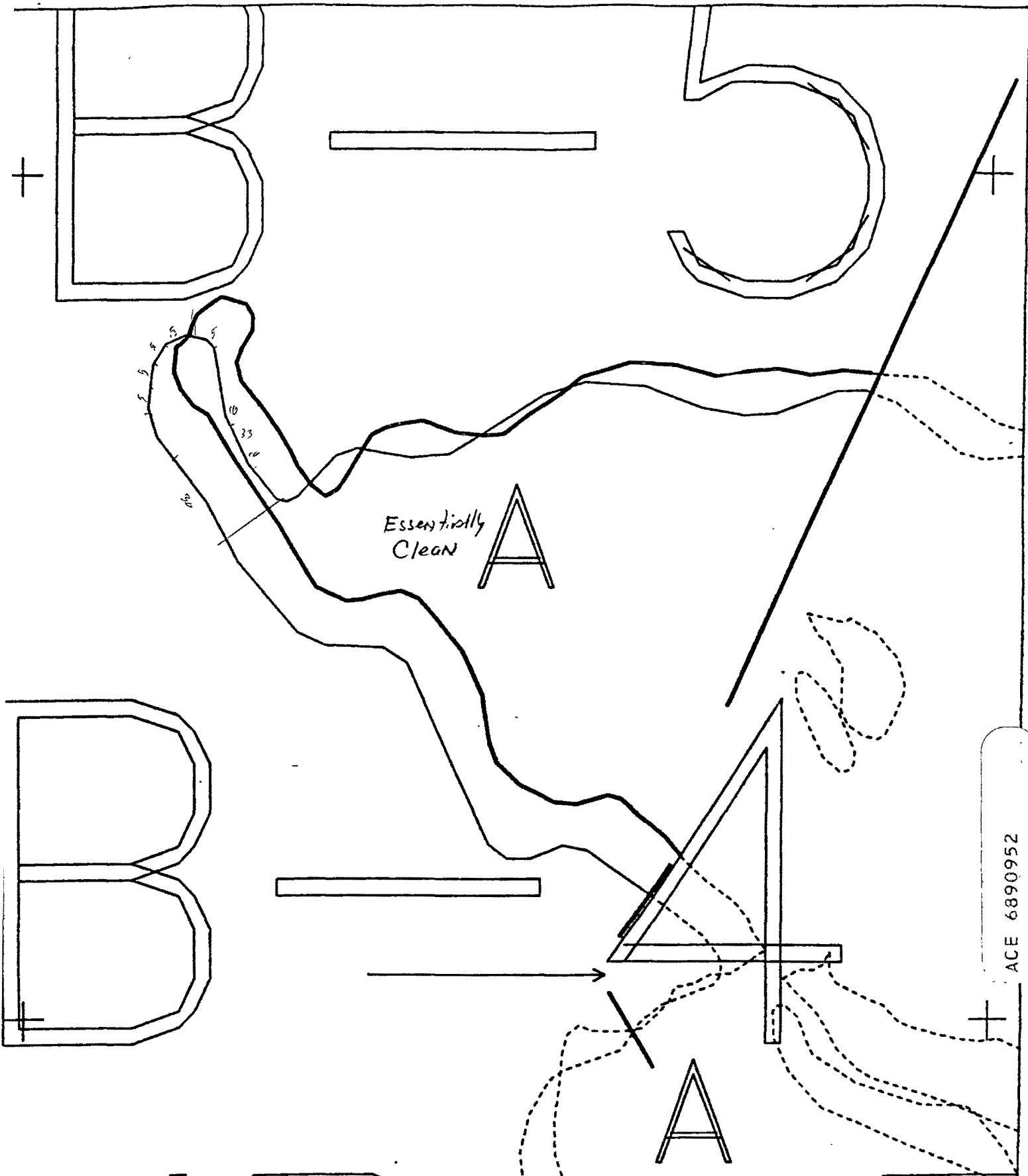
ACE 6890949

COMMENTS

This region was essentially clean and only one mouse pattie was removed. Very little coat was found as well.

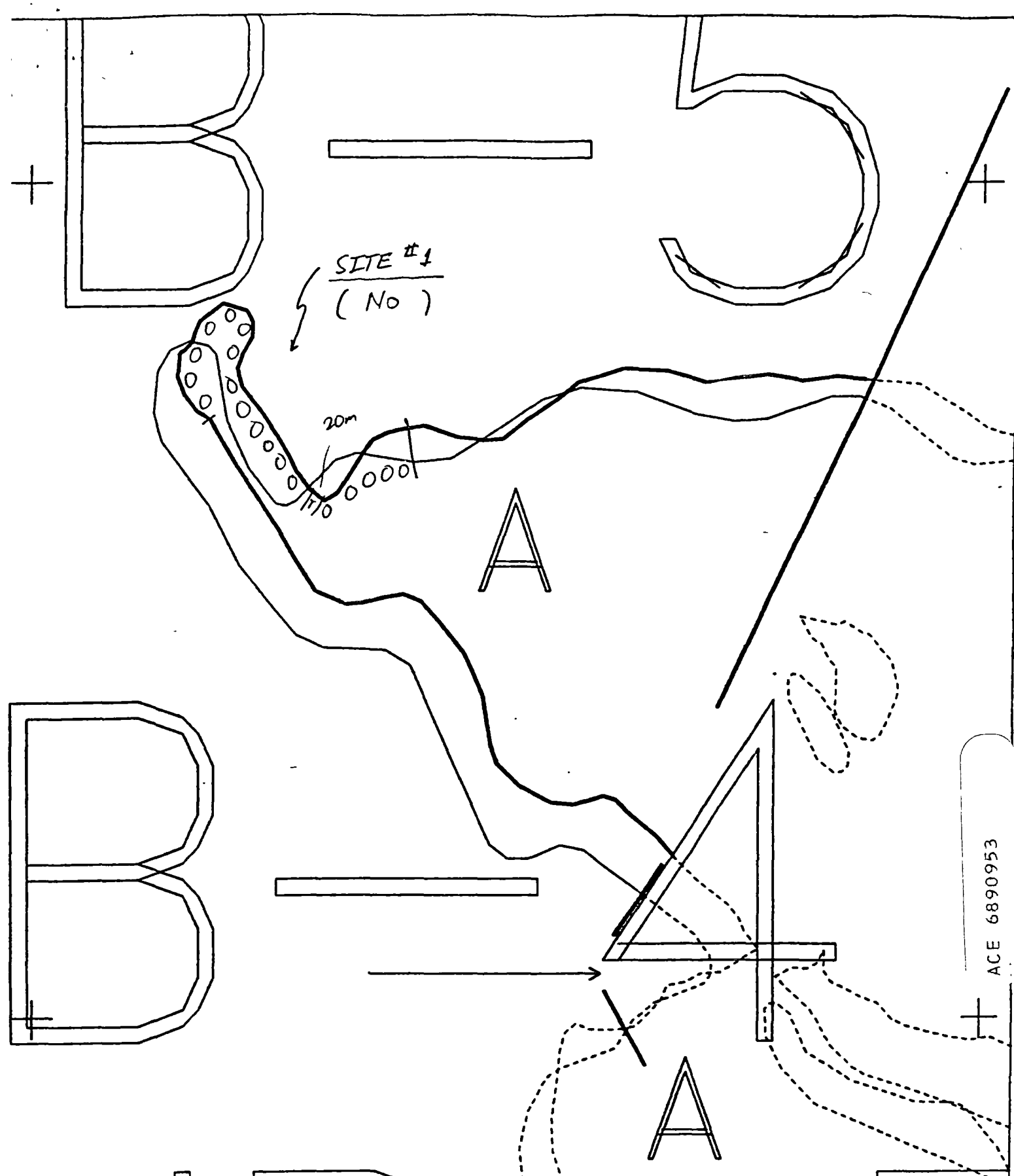


METERS



ACE 6890952

XXXX	Wide	K3-2 IB-5 A		Subdivision Field Map
////	Medium	ADEC Subsegment Length: 1535m		Map Key: KODK3-2IB-5A
----	Narrow	METERS		Name: <u>D. Fitzgerald</u>



ACE 6890953

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

K3-2 IB-5 A
 ADEC Subsegment Length: 1535m
 METERS
 0 115 230
 AK State Plane Zone 4 1:4531
 48-2145



Subdivision Field Map
 Map Key: KODK3-2IB-5A
 Name: D. Fitzgerald
 Date: 13 Aug 1990
 Data Entered:

ANADROMOUS
STREAM
(252-31-10020)

IB-5

Work Area

IB-4

IB-3

IB-2

ACE 6890954-L/S/FF

TREATMENT



ECOLOGY MAP
SEGMENT IB-5
SUBDIVISION A (1 of 1)

- ★ Seabird Colony
- △ Eagle Nest

ANADROMOUS FISH STREAM EVALUATION

~~PDF~~
KODIAK

SEGMENT ST/K03-02-IB-005 STREAM NO: 251-310-10020 DATE 5/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

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

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

8AA Sensitive estuary.
No ecological constraints re: intertidal biota.
Ecological constraints to be revised if Inipol is recommended.

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.)). or

SHPO SIGNATURE: Packel from Dade DATE: 6/01/90

Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

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

COMMENTS:

TAG COMMENTS: MANUAL PICKUP OF TARBALLS + PATCHES AS INDICATED
ON SKETCH

TAG APPROVAL DATE: 5/24/90.

ADEC ART WEINER Art Weiner

EXXON Ann Tsai Ann Tsai

NOAA Bar/Warwick Bar/Warwick

USCG M. J. HALL, USCG

FOSC: DATE:

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
Habitat Anch-

DATE: 5/7/90

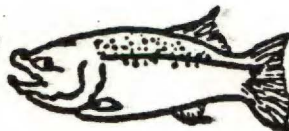
No. Pages: 10
(including this page)

FROM: J. Barnhart
Habitat Kodiak

MESSAGE: Grassy Lagoon Stream, Izhut Bay, Afognak Island
Stream # 252-30-10020
Segment IB005

ACE 6890982 +3

ANADSCAT



VIB

TO: DAN DELAPINA FAX NO. 907 564-3771

TEAM NO. 15

FROM: GUS GARCIA

LOCATION: KODIAK

PHONE NO: 487-2700 RM208

FAX NO. 487-4006

DATE: 5-1-90

TIME:

NUMBER OF PAGES SENT INCLUDING FRONT COVER PAGE: 18

SSAT PACKAGE CHECK LIST: STREAMS SURVEYED 5/1/90

SEGMENT NO.	STREAM #	OG	SKETCH	ADF&G Form	FIELD SHORELINE COMMENTS SHEET	Bio Notes	OPS
ST-55-009	251-10-10045	✓	✓	✓	✓	✓	✓
ST-18-005	252-30-10020	✓	✓	✓	✓	✓	✓
ST-							
ST-							
ST-							

PLEASE LIMIT 30 PAGES PER TRANSMISSION

COMMENTS: TOMORROWS PRIMARY SEGMENTS - PB-001A/B & PB-013/014, AB-002, PB-016
DB-008

TOMORROWS ALTERNATE SEGMENTS -

PRIMARY CONTACT:

Jack Rickner 564-3669

Tom Kelley 564-3731

SCAT SECRETARY - SANDY MOELLER-RIKARD @ 564-3660

IF ANY PROBLEMS WITH THIS TRANSMISSION PLEASE CONTACT LORETTA BIRDSONG
AT PHONE NUMBER 487-4000

EXXON - SCAT -

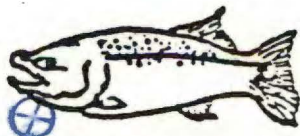
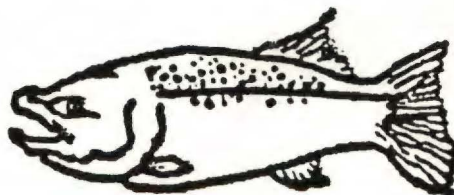
3301 "C" STREET, SUITE 508

ANCHORAGE, ALASKA 99503

907-564-3660

FAX: 564-3771

ACE 6890983



4-19-90

OPERATIONS FIELD NOTES

See Back for Instructions

SEGMENT ID ANAD IB-005

STREAM ID # 252-30-10020

ANNOTATED MAP INCLUDED Y

DATE 5-1-90

NAME GARCIA

TEAM # 15

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

SUBSURFACE OIL - NONE

Other (Describe)?	

TARMATS	Quantities in Meters			Treatment Rec			# of Bags	Mandays Required	
	Length	Width	Thick(cm)	None	Breakup	Remove		Breakup	Remove
Area #1									
Area #2									
Area #3									
Area #4									
Sporadic Mats <u>PATTIES</u>	<u>REFER TO ATTACHED MAP</u>					✓	15		5

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

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

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

GENERAL

Snow covering 0 % of the Supratidal Zone?

ACE 6890984

Wave Exposure H/M/L

Access Limitations: NONE

Snare Boom/Pom Poms Recommended? NO

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

COMMENTS:

RECOMMEND MANUAL REMOVAL OF SPORADIC TARMATS/TAR BALLS AS NOTED ON THE ATTACHED MAP. NO OTHER TREATMENT NECESSARY. TOTAL MANDAYS REQUIRED FOR THIS STREAM IS 5.

FIELD SHORELINE COMMENT SHEET

4/18

SEGMENT ST IB 005 SUBDIVISION: _____ DATE 5/1/90

USCG

NAME CWO McMAHON SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

1. MANUAL CLEAN-UP: REMOVE TAR PATTIES
(per map)

ADFG

ADEC

NAME JEFFREY BARNHART SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

Type A manual cleanup of patties / Tar balls

LAND MANAGER

NAME _____ SIGNATURE _____

☐ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

ACE 6890985

ADF&G MULTI-ASSESSMENT DATA FORM

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

2 REGION: PWS KP, CI KJAP

METHOD: Aerial Ground Boat

3 DATE: 5/1/90

15 HIGH TIDE TIMES: 0731 1

21 TEAM RECORDER: JEFFREY BARNHART

4 START TIME: 1245

16 HIGH TIDE HTS: 8.2 1

22 OBSERVERS: Mike Fawcett John McMahon

5 STOP TIME: 1350

17 LOW TIDE TIMES: 8:10 1440 1 8:10

23 AGENCY: ADF&G, Exxon, WWC, WWC, USCG

6 SEGMENT #: FB005

18 LOW TIDE HTS: 0.2 1

24 PHOTOS TAKEN: Y (N)

7 STATION #:

19 TIDE HT AT SURVEY:

Roll #: Frame:

8 K-UNIT: K03-02

Ebb Slack Flood Slack

25 VIDEO TAKEN: Y (N) TAPE#:

9 STAT AREA: 252-30

20 USCG QUAD:

Start: End:

10 LAT: 58° 14' 54"

11 LONG: 152° 19' 33"

26 SAMPLES TAKEN? Y (N) Number

12 SOURCE: Map Loran Anad Catalog

Oil

13 LOCATION: N.W. Izhut Bay, Afognak Island

Sediment

14 DESCRIPTION:

Biological

EXTENT OF OIL

Water

	SHORELINE				STREAM			
	L	W	M ²	%	L	W	M ²	%
27 SURFACE COVERAGE	400	1	400	5	0	0	0	0

36 CATALOGED ANAD. FISH STREAM? Y N

37 CATALOG #: 252-30-10020

38 STREAM NAME: Grassy Lagoon

	SHORELINE				STREAM			
	L	W	M ²	%	L	W	M ²	%
28 SURFACE THICKNESS	1-2cm							
29 PENETRATION	surface				0	0	0	0

39 OIL IN STREAM BED? Y (N)

40 OIL ON STREAM BANKS? (Y) N

30 OVERALL OIL IMPACT: N VL L M H

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

31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain

42 OIL WITHIN 1 MILE OF STREAM? Y N

32 OILED DEBRIS? Y (N)

Where:

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

43 ANADROMOUS FISH PRESENT? Y (N)

34 WAVE EXPOSURE: High Moderate Low

44 ANADROMOUS FISH OBSERVATION
Species Aerial Ground

35 SUBSTRATE TYPE: Bedrock 10 Boulder Cobble 70
Gravel 20 Sand Mud/silt

Species	Aerial	Ground

COMMENTS: Mousse/Tar balls and Tar patties (surface) 1 meter wide band located 1-3 meters from high tide line in Lagoon. Rearing area for salmon fry, waterfowl area. Easy Type A cleanup recommended.

Jeff Barnhart

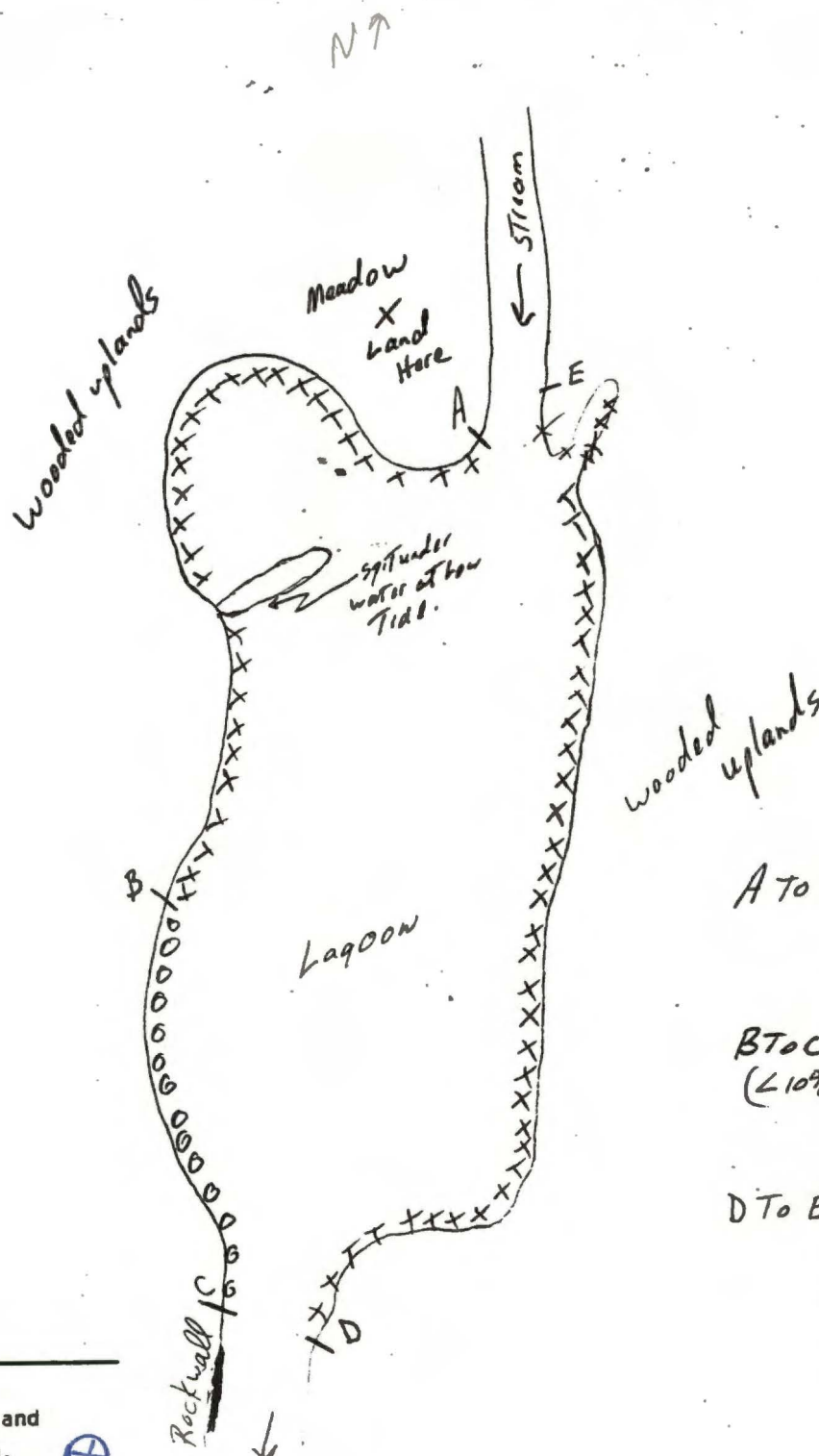
T action with recommendations. Michael H. Fawcett



FRAME(S)

DESCRIPTION

48 OIL DISTRIBUTION DIAGRAM



= Sample taken
 = Photo frame # and
 shot direction.



A to B - Sporadic ^{mousse/} Tar patties/Tar balls
 Located approx 1-3 meters
 from high Tide mark in Lagoon
 1 meter band.

B to C - Splashes → Tar patties/Tar balls
 (10%) Located approx 1-3 meters from
 high Tide mark in Lagoon
 1 meter band

D to E - Sporadic - mousse/Tar patties/
 Tar balls Located approx 1-3
 meters from high Tide mark in Lagoon
 1 meter band (approx)

ACE 6890987

OG WILLIAM LEID USCG McMAHON SEGMENT ST/ IB 003
 BIO MICHAEL FAWCETT LAND REP STREAM 252-30-00201 OF
 EXXON GUS GARCIA ADFG MICHAEL JEFF BROWN HARDTIME 12:35 to 13:55
 TEAM NO. 15 TIDE LEVEL +1.0 ft DATE 1 MAY 190
 EST. SUBDIVISION LENGTH: 600 m ☐ Sun ☒ Clouds ☐ Fog ☒ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☒ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R 30 % B 70 % C 20 % P 60 % G 20 % S 0 % M 0 % V
 SLOPE: Lang 30 % Hang 70 % Vert 0 % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 570 m VL 0 m NO 30

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR						IMPACTED ZONES			
	IC	IS	IP	IR	BR BL	DBL RW	GY	SL SL	TBL TL	LR	SU	UN	MR	LI
ASPHALT PAVEMENT														
POOLED														
COVER														
COAT														
STAIN														
MOUSSE														
PATTIES			X					X			X			
TARBALLS			X					X			X			
FILM														
NO OIL														

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

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

Did you Collect DEBRIS
☐ YES ☒ NO

TYPE 0#BAGS 0

Photographs:

Roll No. AS-15-7Frames 29-33

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (CM-CL)	BELOW		OIL / FILM COLOR						PIT ZONE				A N A	SHEEN (Y/N)	SURFACE SUBSURFACE SEDIMENT
		OP	OR	OL	OF	NO		UO	UC	BR BL	DEL FW	GY SL	DR TL	LR	SU	U	M	U				
							.															
							.															
							.															
							.															
							.															
							.															
							.															

COMMENTS

ACE 6890988

REVIEWED 0 DATE 0

OG WILLIAM REID

SEGMENT ST/ TB 005

STREAM 252-30-10020

DATE 1 / MAY 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

Oil Vegetation

1 ●→

Photo location, direction,
and number

SKETCH MAP

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

REVISION: 03/24/90

ACE 6890989

8/18

Segment IB005

Stream 252-30-10020

Ecological Summary

1 May 90

Michael Fawcett

This moderately large stream enters the northwest end of a mud-bottom lagoon that drains to the east. The lagoon is roughly oval, 150m by 250m. The bottom of the lagoon has infaunal clams, etc., and a large stand of eelgrass. The banks of the lagoon are composed of slate boulders/cobble/pebbles/gravel. Barnacles and Littorines are moderately dense throughout the MTZ, mussels sparse except for a dense mussel bed in the high-current area near the lagoon mouth. Limpets (Collisella perssoni) are abundant on boulders and bedrock in the UTZ. Fucus and Rhodomele are abundant algae in MTZ. One stranded pink salmon fry was found on the stream bank. Oil consists of light sporadic tar balls and patties in MTZ and UTZ around the lagoon. Manual removal is recommended. No ecological constraints re: intertidal biota.

M Fawcett



ACE 6890990

9/18

SSAT DATA ENTRY FORM

PAGE 1 OF 2

GENERAL DATA

252-30-
SEG ID: IB005 SUBDIV: 10020 TEAM: AS-15 SURVEY DATE: 5/1/90
PAVEMENT: CHAR — AREA 0 THICKNESS 0 TARBALLS 0
OILED: LGS — VEG — TRH — DBR — WAVE EXP: LW X MD — HG —
FAX RCVD: — DT: — AGENCY DISAGREE: —
EST SUBDIV LGTH: 600 OIL CATEGORY: W 0 M 0 N 570 VL 0 NO 30 U 0

SURFACE DATA

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

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

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

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

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

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

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

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

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



SSAT DATA ENTRY FORM

SUBSURFACE DATA

PAGE 2 OF 2

SEGMENT ID: IB005 SUBDIV: 252-30-10020

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

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

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

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

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

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

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

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

PROBLEMS:



'90 Anadssat

ASC NUMBER:

SEGMENT NUMBER:

YR CATALOGED:

LOCATION:

STREAM NAME: *Grassy Lagoon*

KODIAK K-UNIT:

LOCAL STREAM #:

LATITUDE:

USGS QUADRANGLE:

LONGITUDE:

SHORELINE TYPE: *Lagoon*

LEGAL:

WAVE EXPOSURE: *Low*

ASC NUMBER: *252-31-10020*

SURVEY TYPE: *AS*

METHOD: *F*

DATE: *5/1/90*

START TIME: *1245*

STOP TIME: *1350*

TEAM RECORDER: *J. Barnhart*

OBSERVERS: *G. Garcia, W. Reid, M. Fawcett, J. McMahon*

AGENCY(IES): *ADFG, Exxon, WWC, WWC, USCG*

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 m	WIDTH m	M2	%	THICK	FEN	OIL TYPE
SITE 1	<i>186</i>	<i>1</i>	<i>186</i>	<i>5</i>	<i>2 cm</i>	<i>Ø</i>	<i>MS, PT, TB</i>
SITE 2	<i>125</i>	<i>1</i>	<i>125</i>	<i>5</i>	<i>2 cm</i>	<i>Ø</i>	<i>PT, TB</i>
SITE 3	<i>240</i>	<i>1</i>	<i>240</i>	<i>5</i>	<i>2 cm</i>	<i>Ø</i>	<i>MS, PT, TB</i>
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 <i>10</i>	Granule
Boulder	Sand
Cobble <i>70</i>	Silt
Pebble <i>20</i>	Veget.

SPECIES

N/A

COUNT

N/A

COMMENTS: *Tar balls (TB), Tar patties (PT) and mousse (MS) One meter wide band located 1-3 meters from high tide line in Lagoon. Roaring area for salmon fry. waterfowl use area.*

Easy Type A Cleanup recommended.

90 ANADSSAT

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: 5/1/90

15 HIGH TIDE TIMES: 0731 1

21 TEAM RECORDER: JEFFREY BARNHART

4 START TIME: 1245

16 HIGH TIDE HTS: 8.2 1

22 OBSERVERS: Mike Facett, John McMahon

5 STOP TIME: 1350

17 LOW TIDE TIMES: 1440 1 1440 1

23 AGENCY: ADF&G, Exxon, WWL, WWL, USCG

6 SEGMENT #: FB005

18 LOW TIDE HTS: 0.2 1

24 PHOTOS TAKEN: Y (N)

7 STATION #: _____

19 TIDE HT AT SURVEY: _____

Roll #: _____ Frame: _____

8 K-UNIT: K03-02

Ebb Slack Flood Slack

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

9 STAT AREA: 252-30

20 USCG QUAD: _____

Start: _____ End: _____

10 LAT: 58° 14' 54"

11 LONG: 158° 19' 33"

26 SAMPLES TAKEN? Y (N) Number

12 SOURCE: Map Loran Anad catalog

011 _____

13 LOCATION: N.W. Izhut Bay, Afognak Island

Sediment _____

14 DESCRIPTION: _____

Biological _____

Water _____

EXTENT OF OIL

27 SURFACE COVERAGE

SHORELINE				STREAM			
L	W	M ²	%	L	W	M ²	%
400	1	400	5	0	0	0	0

36 CATALOGED ANAD. FISH SREAM? Y N

28 SURFACE THICKNESS

1-2cm							
surface				0	0	0	0

37 CATALOG #: 252-30-10020

29 PENETRATION

38 STREAM NAME: Grossy Lagoon

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

39 OIL IN STREAM BED? Y (N)

31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain

40 OIL ON STREAM BANKS? (Y) N

32 OILED DEBRIS? Y (N)

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

42 OIL WITHIN 1 MILE OF STREAM? Y N

Where: N/A

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

43 ANADROMOUS FISH PRESENT? Y (N)

34 WAVE EXPOSURE: High Moderate Low

44 ANADROMOUS FISH OBSERVATION
Species Aerial Ground

35 SUBSTRATE TYPE: Bedrock 10 Boulder Cobble 70

Gravel 20 Sand Mud/silt

COMMENTS: Mousse/ Tar balls and Tar patties (surface) 1 meter wide band located 1-3 meters from high tide line in Lagoon. Rearing area for salmon fry, waterfowl area. Easy Type A cleanup recommended.

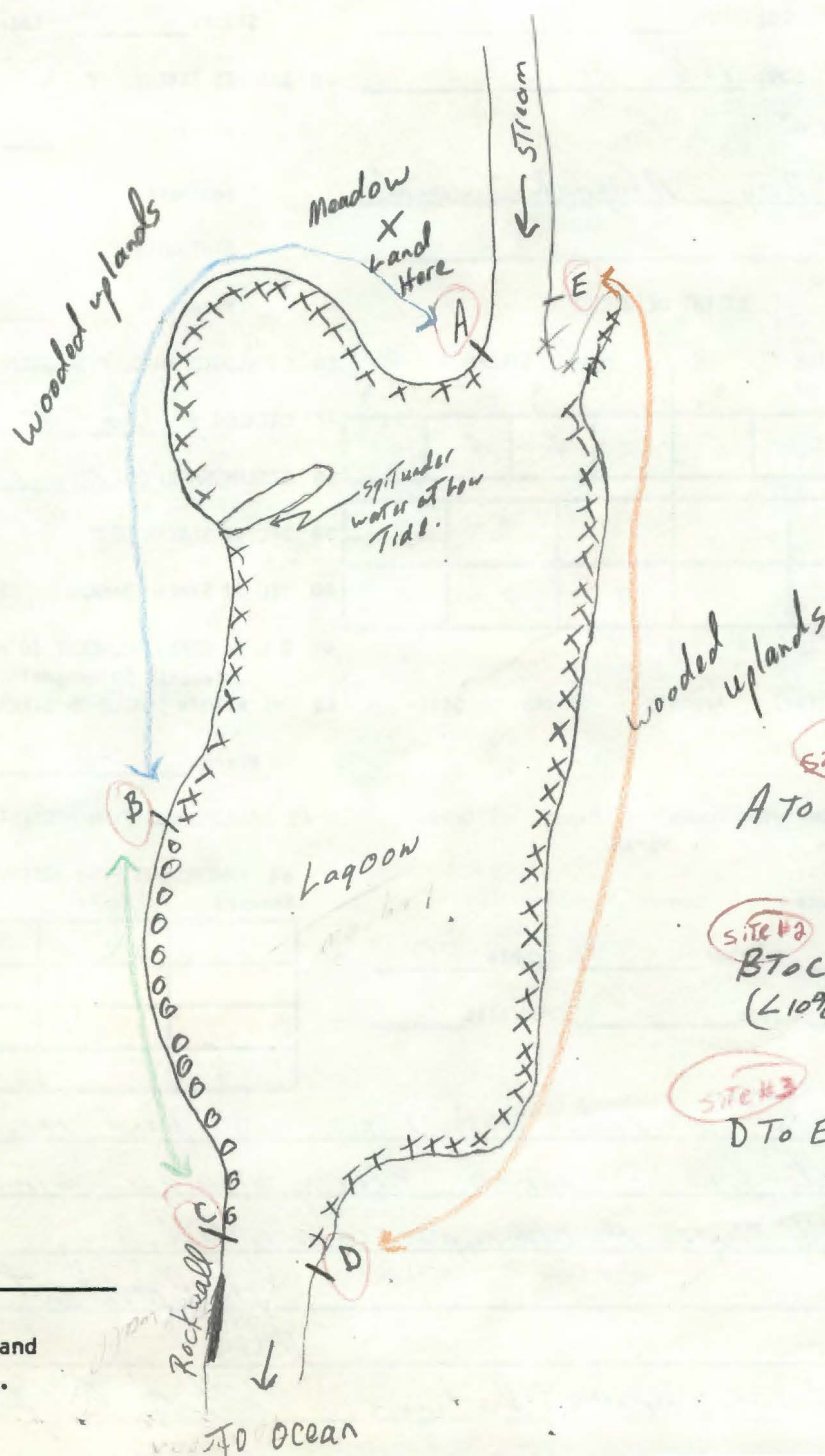
Jeff Barnhart

I agree with recommendations. Michael H. Fawcett

FRAME(S)

DESCRIPTION

46 OIL DISTRIBUTION DIAGRAM



= Sample taken
 = Photo frame # and
 shot direction.

Site #1
 A to B - Sporadic ^{mousse/} Tar patties/Tar balls
 Located approx 1-3 meters
 from high tide mark in Lagoon
 1 meter band.

Site #2
 B to C - Splashes → Tar patties/Tar balls
 (<10%) Located approx 1-3 meters from
 high tide mark in Lagoon.
 1 meter band

Site #3
 D to E - Sporadic ^{mousse/} Tar patties/
 Tar balls Located approx 1-3
 meters from high tide mark in Lagoon
 1 meter band (approx)

ACE 6890936

ANADROMOUS FISH STREAM ASSESSMENT

REGION: KODIAK

SEGMENT: K03-02-IB-005

SUBDIVISION: A

STREAM NO: 252-31-10020 ✓

Afagnah Is
Izbut Bay
Grossy Lagoon-Stream

disagree 1CRM 5/22/90
Rec. manual cleanup
TB/TP

C.G. has debris/SAT segment
pickup scheduled

7AG 0.12. Manual picking
5/24/90

ANADROMOUS FISH STREAM EVALUATION

252-31-10020

SEGMENT ST/K03-02-IB-005 STREAM NO: 252-31-10020 DATE 5/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

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

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

8AA Sensitive estuary.
No ecological constraints re: intertidal biota.
Ecological constraints to be revised if Inipol is recommended.

ARCHAEOLOGICAL CONSTRAINTS:

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

SHPO SIGNATURE: _____ DATE: _____

Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

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

COMMENTS: _____

TAG COMMENTS: _____

TAG APPROVAL DATE: _____

ADEC _____
EXXON _____
NOAA _____
USCG _____

FOSC: _____ DATE: _____

ACE 6891010

FIELD SHORELINE COMMENT SHEET

SEGMENT ST IB 005 SUBDIVISION: 252-31-10020 DATE 5/1/90

USCG

NAME CWO McMAHON SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

1. MANUAL CLEAN-UP: REMOVE TAR PATTIES
(per map)

~~ADFG~~

~~ADEC~~

NAME JEFFREY BARNHART SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

Type A manual cleanup of patties / Tar balls

LAND MANAGER

NAME _____ SIGNATURE _____

☐ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

ACE 6891011

ADFG MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: US SS DS TS AVS SCM MMS PTA2 REGION: PWS NP,CI KAPMETHOD: Aerial Ground Boat3 DATE: 5/1/9015 HIGH TIDE TIMES: 0731 121 TEAM RECORDED: JEFFREY BARNHART4 START TIME: 124516 HIGH TIDE HTS: 8.2 122 OBSERVERS: Gus Garcia, William Raul5 STOP TIME: 135017 LOW TIDE TIMES: 1440 1 71023 AGENCY: ADFG, Egan, WWC, WWC, US6 SEGMENT #: FB00518 LOW TIDE HTS: 0.2 124 PHOTOS TAKEN: Y (N)

7 STATION #:

19 TIDE HT AT SURVEY:

Roll #: _____ Frame: _____

8 K-UNIT: K03-02(Ebb) Stack Flood Stack25 VIDEO TAKEN: Y (N) TAPES: _____9 STAT AREA: 252-30

20 USCG QUAD: _____

Start: _____ End: _____

10 LAT: 58° 14' 54"11 LONG: 152° 19' 33"26 SAMPLES TAKEN: Y (N) Number _____12 SOURCE: Map Loran Anad Catalog13 LOCATION: N.W. Izhat Bay, Atoprak Island

14 DESCRIPTION: _____

Oil _____

Sediment _____

Biological _____

Water _____

EXTENT OF OIL

27 SURFACE COVERAGE

SHORELINE				STREAM			
L	W	HP	S	L	W	HP	S
400	1	400	5	0	0	0	0

28 CATALOGED ANAD. FISH STREAM Y N

28 SURFACE THICKNESS

1-2cm							
surface				0	0	0	0

27 CATALOG #: 252-30³¹1002029 STREAM NAME: Grassy Lagoon

29 PENETRATION

30 OIL IN STREAM BED? Y (N)30 OVERALL OIL IMPACT: N VL L M H41 OIL ON BEACH ADJACENT TO MOUTH? (N)
(within 50 meters)31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain42 OIL WITHIN 1 MILE OF STREAM? Y N32 OILED DEBRIS? Y (N)

Where: _____

33 SHORELINE TYPE: Headland Low-lying Rocks Beach Cove
Lagoon Marsh43 ANADROMOUS FISH PRESENT? Y (N)34 WAVE EXPOSURE: High Moderate Low44 ANADROMOUS FISH OBSERVATION
Species _____ Aerial _____ Ground _____35 SUBSTRATE TYPE: Bedrock 10 Boulder Cobble 70Gravel 20 Sand Red/silt

ACE 6891013		

COMMENTS: Tar balls and Tar patties (surface) 1 meter wide band located 1-3 meters from high tide line in lagoon. Rearing area for salmon fry, waterfowl area. Easy Type A cleanup recommended.

Jeff Barnhart

48 OIL DISTRIBUTION DIAGRAM



D To E - Sporadic - Missed / Tar balls
Tar balls Located approx 1-3
meters from high tide mark in
1 meter band (approx)

- ACE 6891014

segment IB005
stream 252-30³¹-10020
Ecological Summary

8/68
1 May 90
Michael Fawcett

This moderately large stream enters the northwest end of a mud-bottom lagoon that drains to the east. The lagoon is roughly oval, 150m by 250m. The bottom of the lagoon has infaunal clams, etc., and a large stand of eelgrass. The banks of the lagoon are composed of slate boulders/cobble/pebbles/gravel. Barnacles and Littorines are moderately dense through out the MTZ, mussels sparse except for a dense mussel bed in the high-current area near the lagoon mouth. Limpets (Collisella persana) are abundant on boulders and bedrock in the VTZ. Fucus and Rhodonele are abundant algae in MTZ. One stranded pink salmon fry was found on the stream bank. Oil consists of light sporadic tar balls and patties in MTZ and VTZ around the lagoon. Manual removal is recommended. No ecological constraints intertidal biota.

M. Fawcett

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/K03-02-IB-005 STREAM NO: 251-³¹310-10020 DATE 5/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

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

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

8AA Sensitive estuary.
No ecological constraints re: intertidal biota.
Ecological constraints to be revised if Inipol is recommended.

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.)). or

SHPO SIGNATURE: Packal Jan Ode DATE: 6/01/90

Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

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

COMMENTS: _____

TAG COMMENTS: MANUAL PICKUP OF TARBALLS + PATCHES AS INDICATED
ON SKETCH

TAG APPROVAL DATE: 5/24/90.

ADEC ART WEINER Art Weiner

EXXON ANN TSC Ann TSC

NOAA BOB WISOTT Bob Wisott

USCG M. J. HALL M. J. Hall

FOSC: [Signature] DATE: 6/4/90

ACE 6890961 + 5

FIELD SHORELINE COMMENT SHEET

SEGMENT ST IB 005 SUBDIVISION: 252-31-10020 DATE 5/1/90

USCG

NAME CWO McNamee SIGNATURE [Signature]

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

1. MANUAL CLEAN-UP: REMOVE TAR PATTIES
(per map)

ADFG

ADEC

NAME JEFFREY BARNHART SIGNATURE Jeffrey Barnhart

☐ NO TREATMENT RECOMMENDED
COMMENTS

☒ TREATMENT SUGGESTED

Type A manual cleanup of patties / Tar balls

LAND MANAGER

NAME _____ SIGNATURE _____

☐ NO TREATMENT RECOMMENDED
COMMENTS

☐ TREATMENT SUGGESTED

SHORELINE OILING SUMMARY (AMRD.)

OG WILLIAM LEID USCG McMAHON SEGMENT ST/ 11
 BIO MICHAEL FAWCETT LAND REP STRAN
 EXXON GUS GARCIA ADFG JOFF BERNHARDT JOFF BERNHARDT
 TEAM NO. 15 TIDE LEVEL +60 ft DATE 1 MAY 90
 EST. SUBDIVISION LENGTH: 600 m ☐ Sun ☒ Clouds ☐ Fog ☒ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☒ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R 30 % B 70 % C 20 % P 60 % G 20 % S 0 % M 0 % V
 SLOPE: Long 30 % Hang 70 % Vert 0 % WAVE EXPOSURE: ☒ Low ☐ Med ☐ HI
 OIL CATEGORY LENGTH: W 0 m M 0 m N 570 m VL 0 m NO 30

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR					IMPACTED ZONES			
	10	20	30	40	50	60	70	80	90	SU	U	ME	U
ASPHALT PAVEMENT													
POOLED													
COVER													
COAT													
STAIN													
MOUSSE													
PATTIES			X					X		X			
TARBALLS			X					X		X			
FILM													
NO OIL										X	X	X	

PAVEMENT H F S 0 sq. m by 0

PATTIES / TARBALLS

NEAR SHORE SHEENT NO BR RW SL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

Did You Go DEBRIS
☐ YES ☒ NO

TYPE

#BAGS

Photographs:

Roll No. A3-15-7

Frames 29-33

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL	BELOW		OIL / FILM COLOR					PIT ZONE				A N A	SHEEN (%)	V	SURF SUBSURF SEDIM
		OP	OR	OL	OF	NO		50	100	50	60	70	80	90	SU	U	ME	U				

COMMENTS

ACE 6890963

REVIEWED

DATE 5/5/90

5/10

ADFG MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: OS SE OS TS AVS SCNA MMH PTA

2 REGION: PWS

IP,CI

KAP

METHOD: Aerial Ground Boat

3 DATE: 5/1/90

15 HIGH TIDE TIMES: 0731 1

21 TEAM RECORDED: JEFFREY BARNHART

4 START TIME: 1245

16 HIGH TIDE HTS: 8.2 1

22 OBSERVERS: Pike John McMahon

5 STOP TIME: 1350

17 LOW TIDE TIMES: 1440 1 710

23 AGENCY: ADFG EMD WMC WMC US

6 SEGMENT #: FB005

18 LOW TIDE HTS: 0.2 1

24 PHOTOS TAKEN: Y (N)

7 STATION #:

19 TIDE HT AT SURVEY:

Roll #: _____ Frames: _____

8 K-UNIT: K03-02

20 UCCO QUAD: Sh Shack Flood Shack

25 VIDEO TAKEN: Y (N) TAPES: _____

9 STAT AREA: 252-30

20 UCCO QUAD: _____

Starts: _____ Ends: _____

10 LAT: 58° 14' 54"

11 LONG: 152° 19' 33"

26 SAMPLES TAKEN: Y (N) Number: _____

12 SOURCE: Map Loran Anad catalog

13 LOCATION: N.W. Izhut Bay, Atopark Island

14 DESCRIPTION: _____

Oil

Sediment

Biological

Water

EXTENT OF OIL

27 SURFACE COVERAGE

SHORELINE				STREAM			
L	V	W	S	L	V	W	S
400	1	400	.5	0	0	0	0

28 SURFACE THICKNESS

1-2cm							
surface				0	0	0	0

29 PENETRATION

30 OVERALL OIL IMPACT: N VL L N N

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 10 Beidler Cobble 70
Gravel 20 Sand Red/silt

36 CATALOGED AND. FISH SKELET Y N

37 CATALOG #: 252-30-10020

38 STREAM NAME: Grassy lagoon

39 OIL IN STREAM BED: Y (N)

40 OIL ON STREAM BANK: Y (N)

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

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

Where: _____

43 ANADROMOUS FISH PRESENT? Y (N)

44 ANADROMOUS FISH OBSERVATION

Species	Aerial	Ground

ACE 6890964

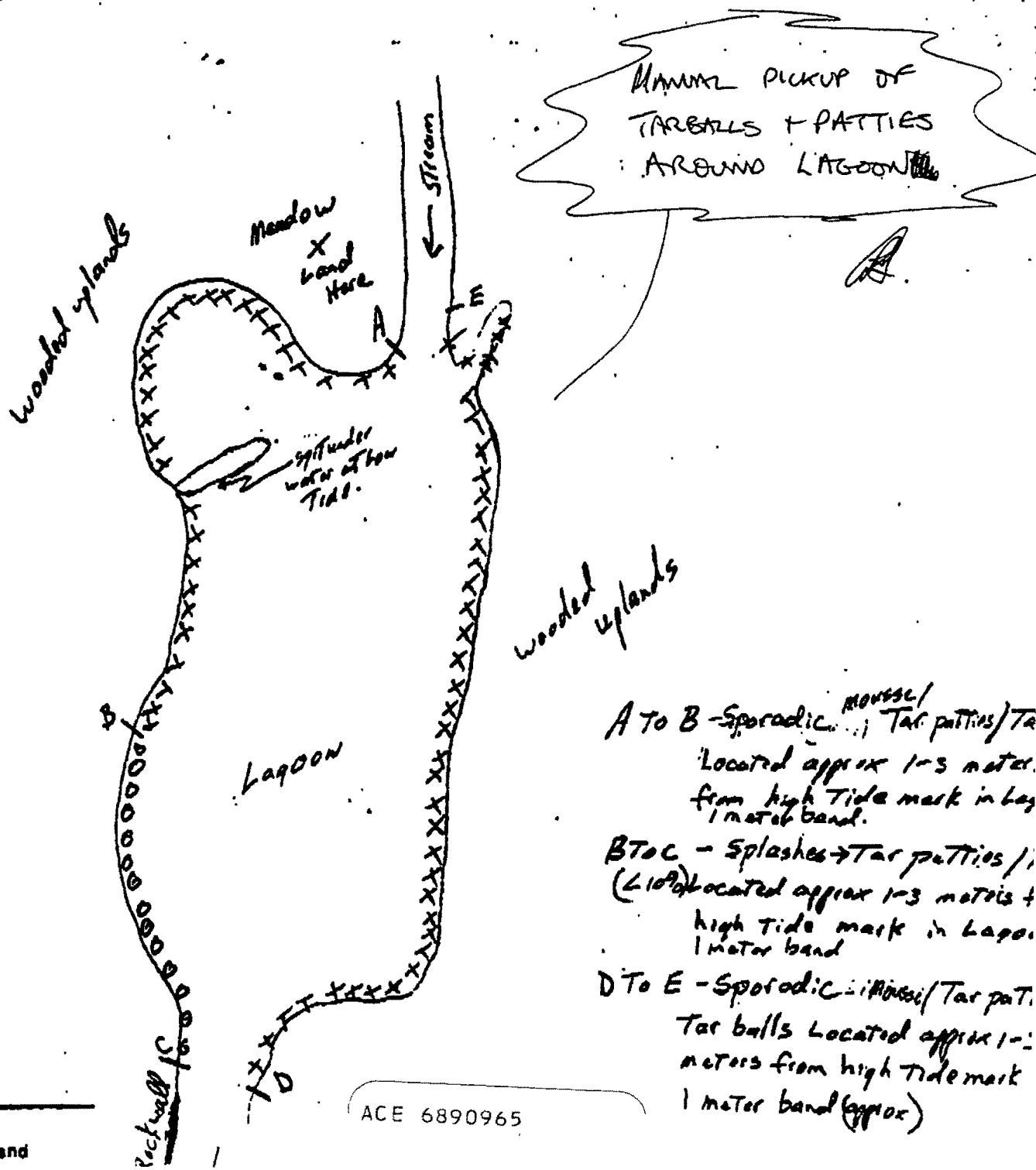
COMMENTS: Tar balls and Tar patties (surface) 1 meter wide band located 1-3 meters from high tide line in lagoon. Rearing area for salmon fry, waterfowl area. Easy Type A cleanup recommended.

Jeff Barnhart

FRAME(S)

DESCRIPTION

48 OIL DISTRIBUTION DIAGRAM



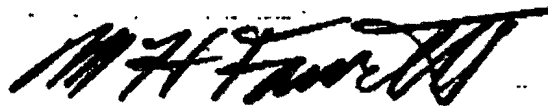
x Sample taken
o Photo frame # and

8/6

segment IB005
stream 252-36³-10020
Ecological Summary

1 May 90
Michael Fawcett

This moderately large stream enters the northwest end of a mud-bottom lagoon that drains to the east. The lagoon is roughly oval, 150m by 250m. The bottom of the lagoon has infaunal clams, etc., and a large stand of eelgrass. The banks of the lagoon are composed of slate boulders/cobble/pebbles/gravel. Barnacles and Littorines are moderately dense throughout the MTZ, mussels sparse except for a dense mussel bed in the high-current area near the lagoon mouth. Limpets (Collisella perssoni) are abundant on boulders and bedrock in the VTZ. Fucus and Rhodomela are abundant algae in MTZ. One stranded pink salmon fry was found on the stream bank. ~~consists of~~ light sporadic tar balls and patches in MTZ and VTZ around the lagoon. Manual removal is recommended. No ecological constraints intertidal biota.



FISH HABITAT ASSESSMENT FORM

Grassy Lagoon Creek

JEFF BARNHART
Randy TALVI
ROGER DUNBAR

REGION: PWS KP, CI (K) AP OBSERVER(S)

SITE NO. A4-1 AERIAL PHOTO NO. K1-9 CAT NO. 252-30-10020STREAM NAME N LAT 58° 14' 40" W LONG 152° 19' 20"DATE 09/02/89 TIME 0930 TIDE: Low slack Flood High slack Ebb

CATALOGED ANADROMOUS STREAM? (Y) N ANAD. FISH FOUND? (Y) N

See notes

OIL FOUND IN STREAM? Y N OIL FOUND NEAR STREAM (1 MI.)? (Y) N

OIL SAMPLES TAKEN? (Y) N ID NOS. A4-1-1, A4-1-235 mm PICTURES TAKEN? Y N ROLL NO(S). 195A

EXPOSURE NO. DESCRIPTION

12 mouse pattie on slate rock, 2 m from high tide mark.
125 yards from Extreme Tide line of stream on North shore of Bay.

13 mouse pattie laying on bottom of lagoon. Distance is 900 yards from extreme tide line in stream. Lateral distance from extreme tide line of lagoon is 150 feet.

14 mouse pattie 900 yards from extreme tide line in stream. This puts the location near the lagoon mouth. Lateral distance from extreme tide line is 100 feet.

VIDEO FOOTAGE TAKEN? (Y) N CASSETTE NO(S). H5008

DESCRIPTION: 0971-1330 Footage from high tide line in stream to mouth of lagoon. Mousse patties, sampling mousse, Salmon in stream.

* Lat/Long Taken from pilot's aviation chart.

ACE 6890967

PINK CHUM RED KING COHO DOLLY

	PINK	CHUM	RED	KING	COHO	DOLLY
Aerial						
	395 live				present.	
	170 dead					
Ground						

COMMENTS: Pink salmon counted from high tide in stream too 120 yards into the estuary. Coho jumping in estuary. No count. Have not moved into stream yet.

OIL OBSERVATIONS

EXTENT OF OIL:

	WITHIN STREAM	OUTSIDE STREAM
SURFACE COVERAGE	—	See diagram
SURFACE THICKNESS	—	See diagram
PENETRATION	—	Surface to 3 inches.

PREDOMINANT SUBSTRATE TYPE:

1. Bedrock
2. Boulder
3. Cobble
4. Gravel
5. Sand
6. Mud
7. Other

oooo shows no oil observed

|| shows heavy algae cover on rocks. Difficult to see oil. One small mouse pattie observed at high tide mark.

End survey 1200 yds

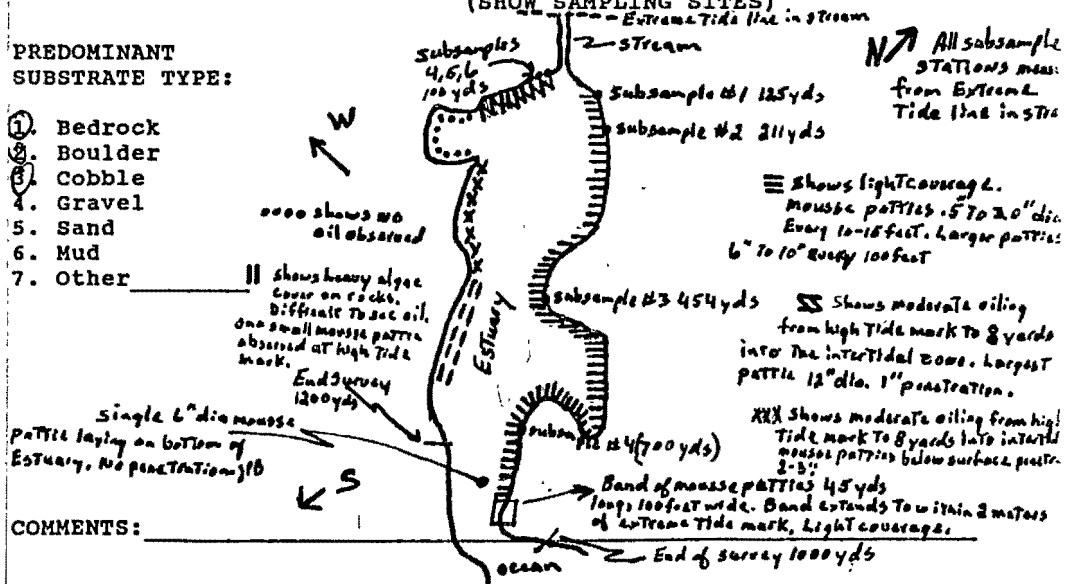
Single 6" dia mouse pattie laying on bottom of Estuary. No penetration.

COMMENTS:

Measurements Taken by pacing following curvature of shore line

ACE 6890968

OIL DISTRIBUTION DIAGRAM (SHOW SAMPLING SITES)



2 Volume of samples taken:
approx 250 ml each

Date and Time of collection:
9:30-10:30 AM 09/02/89

List of sample identification numbers:

S2-1-1

S2-1-2

ACE 6890969

3 Description of sampling point and sampling methodology:

Sampling points shown on oil distribution diagram on The Fish Habitat Assessment Form.

Methodology: Sampling protocol was followed per Draft Plan, Anadromous Fish Habitat Assessment Plan, page 9

ACE 6890970

4

References (Maps, photographs, Video footage):

Aerial photo K1-9

Kodiak Area Salmon District map

35mm photos Roll # 19 SA Frames 12, 13, 14

Video cassette no. H5008 - Footage 0971-1330.

Field Observations:

observations are detailed in the oil distribution diagram on The Fish Habitat Assessment Form.

Jeff Barnhart
7/2/89

ACE 6890971

5

ACE 6890972 - S

SHORELINE EVALUATION

SEGMENT ST/ K0302-IB-5 SUBDIVISION A (1 OF 1) DATE 3/31/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Sensitive estuary (8AA); Stream mouth (Asc #252-30, #10020). Out-
migration (1A) - 3/1 to 5/15 and spawning (1B) - 7/10 to 8/31;
Possible bald eagle nest (5T) - contact ADF&G to verify eagle nest
location.

SUBDIVISION ECOLOGICAL CONSTRAINTS: Avoid disturbance/damage to un-
oiled 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 Re-
source Program immediately (564-3657; 564-3658 or 564-3276).

SHPO SIGNATURE: Charles E. Jones DATE: April 11, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 362 m: No Oil 1172 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

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

COMMENTS: Manual pickup of mousse is recommended with a small
team (2-4 people) to minimize disturbance.

TAG COMMENTS:

TAG APPROVAL DATE: 4/11/90
ADEC JOHN BAUER
EXXON ANDY BAL
NOAA Burl Weisheit
USCG G.A. REITER

FOSC: DATE: 4-20-90

ACE 18522284/S

FIELD SHORELINE COMMENT SHEET

K3-2-IB-5

K0302

SEGMENT ST/ IB 005 SUBDIVISION: IB-5A DATE 3-31-70USCGNAME D.D. Haven Jr., 6M3 USCGRSIGNATURE [Signature]☐ NO TREATMENT RECOMMENDED☒ TREATMENT SUGGESTED

COMMENTS

Concur with ADEC rep.

ADECNAME Francine J. BenoitSIGNATURE [Signature]☐ NO TREATMENT RECOMMENDED☒ TREATMENT SUGGESTED

COMMENTS

A considerable amount of wildlife is present in this area. It includes an anadromous stream. There's a small amount of mouse saturated fine sediments in the H10-2r. This beach is located 0.25 mi. to the north of IB-004, where clean-up is definitely required. One or two people from that clean-up crew could walk to this area (crossing one small creek) at low tide, or skiff to it, and spend ~ 1/2 day removing any collectable oil here (manually). The field map from our SSAP survey should accompany the crew.

LAND MANAGERNAME JOHN P. HARDISTERSIGNATURE [Signature]☐ NO TREATMENT RECOMMENDED☐ TREATMENT SUGGESTED

COMMENTS

Concur with comments of ADEC representative as to fish and wildlife sensitivities - especially relative to anadromous stream. Scattered amounts of mouse could be removed by small crew walking beach at low tide, manually removing mouse.

REVISION NO. 03/21/70

ACE 1852229

W. H. HARRIS

MEMORANDUM

DATE: April 4, 1990

FROM: Bryan Trimm *BT*

SUBJECT: Subdivision boundaries for K0302-IB005-A

Originally, the SSAT field team subdivided the segment into subdivisions "A" and "B". It was determined by the reviewer (me) and the field OG that it would be appropriate to combine the subdivisions "A" and "B" into one, now called "A". The OG resubmitted the revised form to the office on April 2, 1990.

The original forms are located in the "working copy" file in Rex Coulter's office in Suite 508, Calais II. Copies of the original "A" and "B" OG forms are included with the TAG data package.

OG Acton USCG Haven SEGMENT ST/ K3-2-IB-5
 BIO Paris LAND REP USFWS Hurdles SUBDIVISION IB-5A
 EXXON Avery ADEC Bennis TIME 9:00 10:10 10:20
 TEAM NO.: 20 TIDE LEVEL: +3 10 0 DATE 3 / 31 / 90
 EST. SUBDIVISION LENGTH: 1510 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☒ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: E 10 W
 SURFACE SEDIMENTS: R 20 % B 10 % C 20 % P 20 % G 15 % S 15 % M 0 % V 0 %
 SLOPE: Long 100 % Hang 0 % Vert 0 % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 0 m N 0 m VL 300 m NO 1150 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR						IMPACTED ZONES			
	C	R	P	B	BR	BL	GW	SL	DR	TL	SU	U	M	L
ASPHALT PAVEMENT														
POOLED														
COVER														
COAT			✓			✓					✓			
STAIN														
MOUSSE			✓					✓			✓			
PATTIES														
TARBALLS														
FILM														
NO OIL											✓		✓	✓

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

PATTIES / TARBALLS N/A BAGS

NEAR SHORE SHEEN? ☒ BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

DEBRIS COLLECTED
☐ YES ☒ NO

TYPE N/A

#BAGS N/A

Photographs:

Roll No. 20-2

Frames 7-11

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	BR	BL	GW	SL	DR	TL	SU	U	M	L		
1	15					✓	.									✓					S, C
2	15					✓	.											✓			S, C
							.														
							.														
							.														
							.														

COMMENTS In this subsection, very few sporadic mousse were observed on and among flat cobbles in the UZ zone. The greatest accumulation was situated on the east bank of the stream entrance and is marked on the sketch. No oil was observed in substrate underlying the mousse pads.

CO: Acton USCG: Haven SEGMENT ST/ K3-2-13-5
 BIO: Pass LAND REP: usfw Macdeter SUBDIVISION 2D-5A
 EXXON: Avery ADEC: Bennis TIME: 9:00 10:10 10:20
 TEAM NO.: 20 TIDE LEVEL: +3 10 0 DATE: 3 1 31 1990
 EST. SUBDIVISION LENGTH: _____ m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☒ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: E 10 W
 SURFACE SEDIMENTS: R _____ % B 10 % C 70 % P 20 % G _____ % S _____ % M _____ % V _____ %
 SLOPE: Long 100 % Hang _____ % Vert _____ % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W _____ m M _____ m N _____ m VL _____ m NO _____ m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	C	B	P	S	SB	BR	FW	GT	SL	DR	TL	LR	SU	UI	M	U
ASPHALT PAVEMENT																
POOLED																
COVER																
COAT			✓			✓							✓			
STAIN																
MOUSSE			✓					✓					✓			
PATTIES																
TARBALLS																
FILM																
NO OIL													✓		✓	✓

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

PATTIES / TARBALLS _____ BAGS

NEAR SHORE SHEEN? ☒ NO BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

DEBRIS COLLECTED
☐ YES ☒ NO

TYPE _____

#BAGS _____

Photographs:

Roll No. 20-2Frames 7, 2, 10

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	SB	BR	FW	GT	SL	DR	TL	LR	SU	UI	M	U		
1	15					✓	.																
2	15					✓	.																
							.																
							.																
							.																
							.																

COMMENTS In this subsection, very few sporadic mousse were observed on and among flat cobbles in the UI zone. The greatest accumulation was situated on the east bank of the stream entrance and is marked on the sketch. No oil was observed in substrate underlying the mousse pads.

OG Acton

SEGMENT ST/ K3-2-IB-5

SUBDIVISION K3-2-IB-5A

DATE 3 / 31 / 90

CHECKLIST

- ☐ N Arrow
- ☐ Approx Scale
- ☐ Seg/Sub Bndry
- ☐ Oil Obs.
- ☐ Width
- ☐ Length
- ☐ % Cover
- ☐ Substrate Character
- ☐ Est HML/LVR
- ☐ SSL
- ☐ Profile Location(s)
- ☐ Profile(s)
- ☐ P/L Location(s)
- ☐ Photo Location(s)

LEGEND

1 Δ

P/L - No Subsurface Oil

2 Δ

P/L - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/D

Patchy Distribution

CT/S

Splashed Distribution

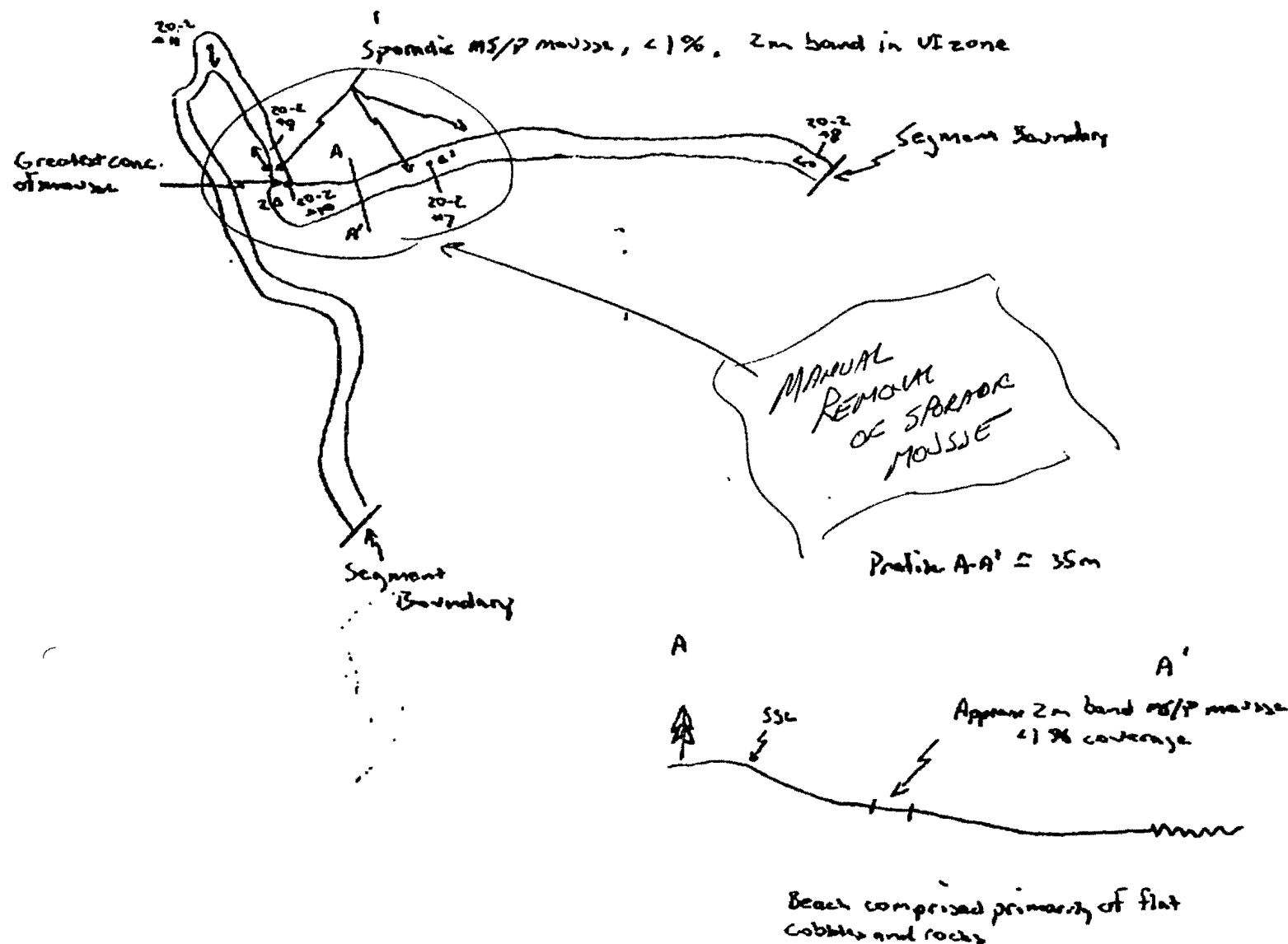
Oil Vegetation

1 $\rightarrow$

Photo location, direction,
and number

SKETCH MAP

North $\uparrow$
Scale 1cm = 100m



Oil Character Length (m): AP 1 PO 0 CV 0 CT 0 ST 0 MS 360 PT 0 TB 0 FL 0 NO 1150

REVISION: 02/24/90

ACE 1852233

OG. Acton USCG Haven SEGMENT ST/ K3-2-13-5
 BIO Davis LAND REP USFWS Hatchers SUBDIVISION 13-5B
 EXXON Axcel ADEC Bennis TIME 9:00 10:10 10:20
 TEAM NO.: 20 TIDE LEVEL: +3 10 1 DATE 3/31/90
 EST SUBDIVISION LENGTH: 11.50 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☒ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☐ Foot ☐ Boat ☐ Helo WORKING DIRECTION: E to W
 SURFACE SEDIMENTS: R 20 % B 10 % C 60 % P 10 % G 0 % S 0 % M 0 % V 0 %
 SLOPE: Long 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 11.50 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR						IMPACTED ZONES			
	C	B	P	S	50 BR	100 RW	100 CY	100 SL	100 TL	100 LR	SU	U	M	U
ASPHALT														
PAVEMENT														
POOLED														
COVER														
COAT														
STAIN														
MOUSSE														
PATTIES														
TARBALLS														
FILM														
NO OIL											✓	✓	✓	✓

PAVEMENT: H F S 0 sq. m by 0 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. 20-2

Frames 8, 11

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		VO	UC	50 BR	100 BR	100 RW	100 CY	100 SL	100 TL	100 LR	SU	U	M		
1	20					✓	.														
2	10					✓	.														
							.														
							.														
							.														
							.														
							.														

COMMENTS No oil was observed in this subdivision

Bio H. Davis

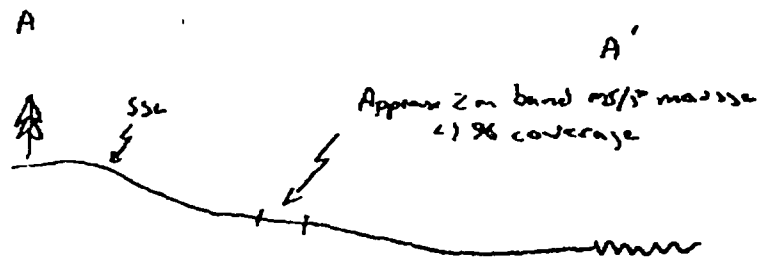
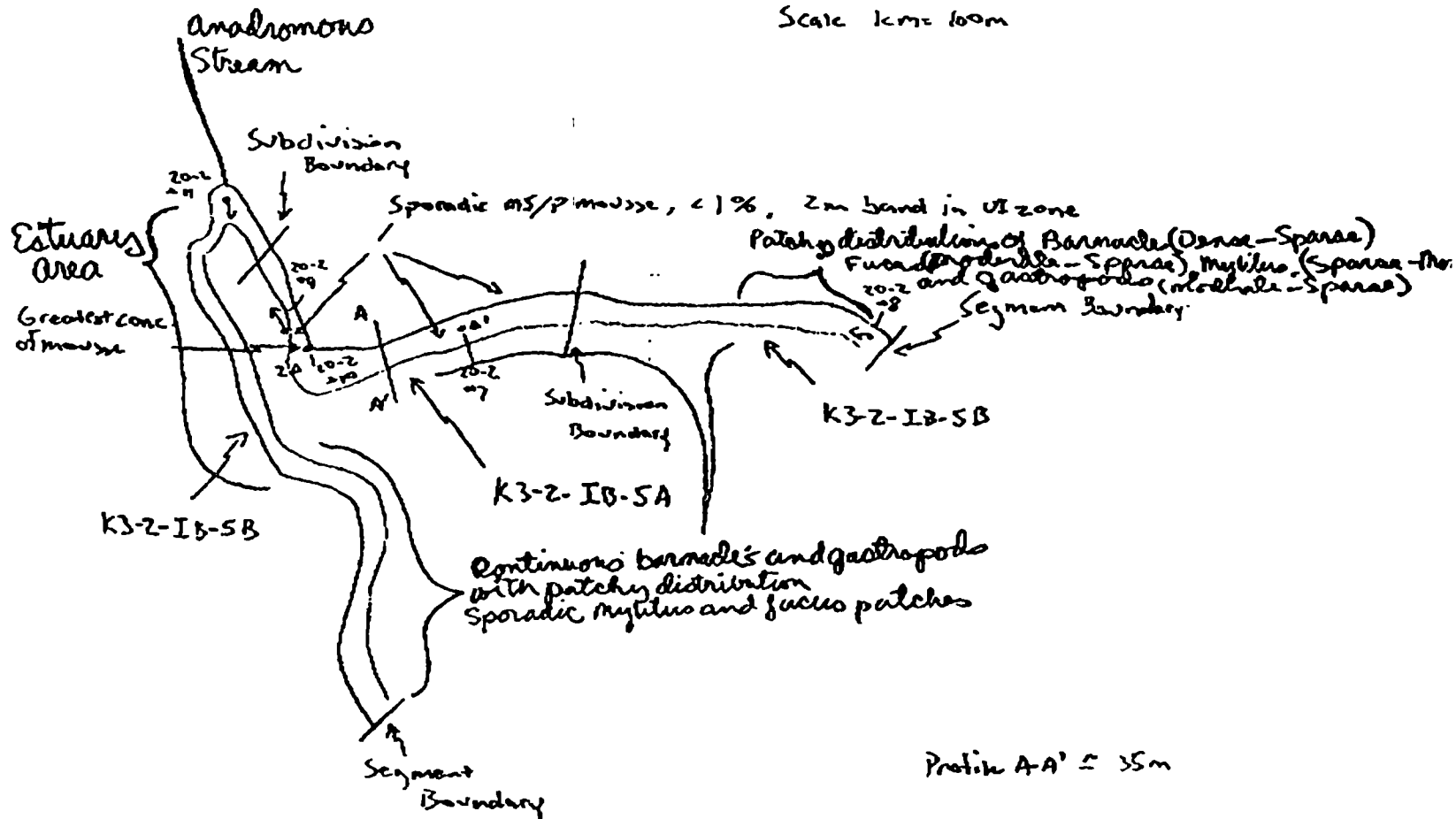
Segment ST/K03-02

Subdivision IB-05A

Date 3-31-90

Bio
SKETCH MAP

North ↑
Scale 1 cm = 100 m



Beach comprised primarily of flat
cobbles and rocks

SHORELINE ECOLOGICAL SUMMARY

REVISION 03/22/90

Segment ST / K03-02 Subdivision IB-5 A Date (mo / day / yr) 3-31-90Time (24 hr) 09:15 Biologist N. Davis

(A) Substrate type and % of segments:

(1) Bedrock 20 (2) Boulder 10 (3) Cobble 20 (4) Pebble 20 (5) Sand 20 (6) Silt 10(B) Overall % cover of biota (% of segment): Dense 30% Moderate 35% Low 35% (35%)

(C) Density, substrate preference (by number from A, above), & vertical zonation of major taxa: (upper-U; mid-M; low tidal-L); juveniles / adults (X), new settlement (O)

Photographs: ST-Roll No. 20-2Frames 7-11

BARNACLES

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

MYTILUS

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

GASTROPODS

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

FUCUS

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

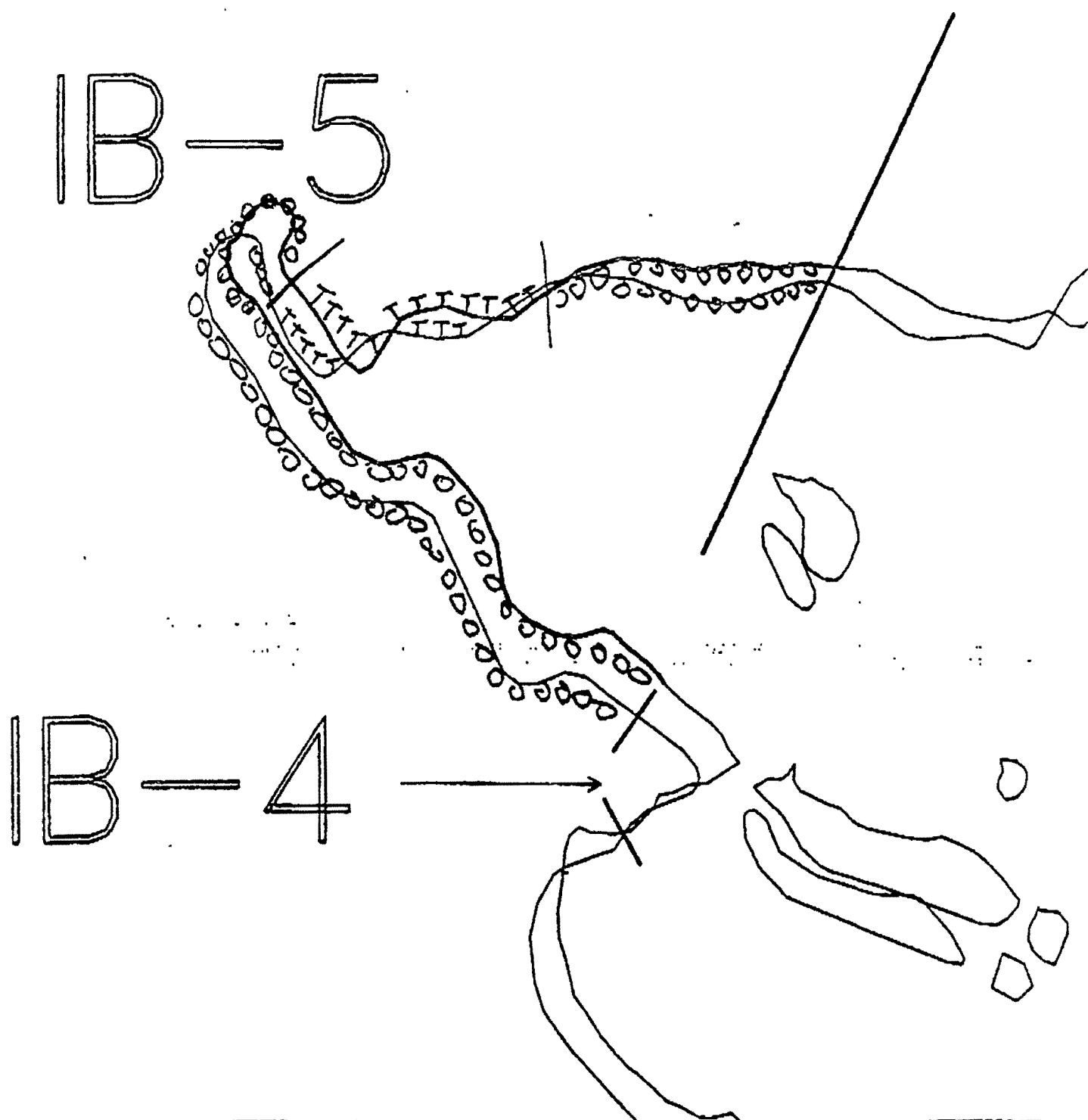
Wildlife Observations/ General Comments: freshly killed deer above storm burn. Eagles scavenging on carcass. 4 adults 2 juveniles seen. Surf Scoter (3-47) over scat and prints in the upper intertidal area. Herring scutellata laying eggs. Ermine (mink)? scat in storm burn area. In Estuary (10) Buffleheads (1) Belted Kingfisher (20) Mallards (210) Harlequin and 1 Dipper were seen.

Ecological Considerations: (1A, 1B, 8AA) Anadromous stream and estuary area in this subdivision. Eagles nest in IB-06. Shorebirds feeding in the intertidal.

ANADROMOUS STREAM No 10020 ASC # 252-30

ACE 1852236

K3-2-IB-5A



XXXX Wide

//// Medium

---- Narrow

TTTT Very Light

0000 No Oil

IB-5

ADEC Segment Length: 1510m

0 100 200 300
METERS

Map Key: GOA-126

Name: ActonDate: 3-31-90

Data Entered:

ACE 1852237 -15

SHORELINE EVALUATION

SEGMENT ST/ KO302-IB-04 SUBDIVISION A (1 of 1) DATE 3/31/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Herring spawning in area (2M) - 4/1 to 6/15; Salmon purse seine area (1J) - 7/20 to 8/30.

SUBDIVISION ECOLOGICAL CONSTRAINTS: Clenaup should proceed using as few people as possible and with minimal disturbance of substrate and biota. May be eagle nest in vicinity.

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

SHPO SIGNATURE: Charles E. Hume DATE: April 11, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 18 m: Narrow 34 m: V.Light 0 m: No Oil 142 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

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

COMMENTS: Manual pickup of asphalt and mousse in the mid and upper tidal zones. Note work exclusion periods. Treatment ASAP, weather permitting, with small team (2-4 people).

TAG COMMENTS:

TAG APPROVAL DATE: 4/11/90.

ADEC JOHN BAUER John Bauer

EXXON ANDY TSAR Andy Tsar

NOAA Burt Wescott Burt Wescott

USCG G.A. REITER G.A. Reiter

FOSC: DATE: 4-10-90

ACE 6725764 45

K3-2-IB-4

K0302

SEGMENT ST/ IB-4 SUBDIVISION: IB-4A DATE 3-31-90**USCG**NAMED D. Haven Jr., GM3, USCGR SIGNATURE [Signature]☐ NO TREATMENT RECOMMENDED
COMMENTS☒ TREATMENT SUGGESTED

Recommend clean up ASAP. Oil is currently in a semi-solid state and can be easily removed manually while the weather is cold. When temps. rise, the oil will liquify and spread. Even in a cold state, the oil displays a sheen on pools of water. I have visited this site on more than one occasion and on each visit, a great deal of wildlife (deer, for, seabirds, ducks, bald eagles) is observed every time and could easily be affected by this type of oiling.

ADECNAME FRANKIE T. BENNIS SIGNATURE [Signature]☐ NO TREATMENT RECOMMENDED
COMMENTS☒ TREATMENT SUGGESTED

Medium amount of oil remains here at K030204 (KISCC site), BROWN DISTRIBUTION. OIL SATURATED SEDIMENTS can be readily removed by manual methods IF retrieved before warmer temperatures make the oil more fluid. Sheen is present in standing H₂O on the oil.

Recommend manual removal in a timely manner. A small clean-up crew of 2-4 people could accomplish this in a week or less.

LAND MANAGERNAME JOHN P. HARDISTER SIGNATURE [Signature]☐ NO TREATMENT RECOMMENDED
COMMENTS☒ TREATMENT SUGGESTED

Concur with comments of ADEC representative - no sensitive fish and wildlife areas noted - small clean-up crew could manually remove oiled materials.

ACE 6725765

goa0403e.mem bat

MEMORANDUM

DATE: April 3, 1990

FROM: Bryan Trimm *BAT*

SUBJECT: Subdivision boundaries for K0302-IB004-A

Originally, the SSAT field team subdivided the segment into subdivisions "A" and "B". It was determined by the reviewer (me) and the field OG that it would be appropriate to combine the subdivisions "A" and "B" into one, now called "A". The OG resubmitted the revised form to the office on April 2, 1990.

The original forms are located in the "working copy" file in Rex Coulter's office in Suite 508, Calais II. Copies of the original "A" and "B" OG forms are included with the TAG data package.

ACE 6725766

OG Acton USCG Haven SEGMENT ST/ K3-Z-53.4
 BIO Davis LAND REP USFWS Hachler SUBDIVISION I3-4A
 EXXON Aven ADEC Bennis TIME 10:45 10:12 : 00
 TEAM NO.: 20 TIDE LEVEL: -1 10 +1 DATE 3 / 31 / 90
 EST. SUBDIVISION LENGTH: 194 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☒ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: S 10 N
 SURFACE SEDIMENTS: R 0 % B 40 % C 40 % P 20 % G 0 % S 0 % M 0 % V 0 %
 SLOPE: Long 100 % Hang 0 % Vert 0 % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M: 40 m N 0 m VL 30 m NO 124 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR						IMPACTED ZONES			
	C	S	P	R	SL BR	DL FW	GY SL	DR TL	LR	SU	UI	ME	U	
ASPHALT PAVEMENT		✓				✓					✓	✓		
POOLED														
COVER														
COAT				✓		✓					✓	✓		
STAIN														
MOUSSE		✓						✓			✓	✓		
PATTIES														
TARBALLS														
FILM														
NO OIL										✓			✓	

PAVEMENT: H ☒ ☒ 60 sq. m by 1-6 cm

PATTIES / TARBALLS N/A BAGS

NEAR SHORE SHEEN? ☒ NO BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

DEBRIS COLLECTED

☐ YES ☒ NO

TYPE N/A

#BAGS N/A

Photographs:

Roll No. 20-2

Frames 12-19

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		VO	VC	SL BR	DL RW	GY SL	DR TL	LR	SU	U	M	U					
1	10					✓	-										✓						S, L
2	10					✓	-											✓					S, L
							.																
							.																
							.																
							.																
							.																

ACE 6725767

ACE 6725767

COMMENTS Area approx 3m x 4m w/ approx 50% cover of soft asphalt/mousse pads. oil thickness approx. 1-6 cm. Areas of very light splash CT/S approx 30m long and 3m wide was observed also. Soft asphalt/mousse is in between and covering some cobbles. Some mousse was leaching and forming pools of oil (approx. 10cm diameter) or sheen on pooled water. No oil penetration was observed below asphalt/mousse.

DRAFT

OG Acton USCG Haven SEGMENT ST/ k3-2-33.4
 BIO Davis LAND REP USFWS Hardwire SUBDIVISION 13-4A
 EXXON Avery ADEC Bennis TIME 10:45 10 12 00
 TEAM NO.: 20 TIDE LEVEL: -1 10 +1 DATE 3 / 31 / 90
 FST SUBDIVISION LENGTH: 70 m ☐ Sun ☒ Clouds ☐ Fog ☐ Rain ☒ Snow
 UPLANDS DESCRIPTION: ☐ Grass ☒ Forest ☒ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo WORKING DIRECTION: S 10 N
 SURFACE SEDIMENTS: R 0 % B 40 % C 40 % P 20 % G 0 % S 0 % M 0 % V 0 %
 SLOPE: Long 100 % Hang 0 % Vert 0 % WAVE EXPOSURE: ☒ Low ☐ Med ☐ High
 OIL CATEGORY LENGTH: W 0 m M 40 m N 0 m VL 30 m NO 0 m

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR							IMPACTED ZONES			
	C	S	P	S	SL BR	OR RW	GY SL	DR TL	LN	SU	UI	M	U		
ASPHALT PAVEMENT		✓				✓					✓	✓			
POOLED															
COVER															
COAT				✓		✓					✓	✓			
STAIN															
MOUSSE		✓						✓			✓	✓			
PATTIES															
TARBALLS															
FILM															
NO OIL											✓			✓	

PAVEMENT: H F S 0 sq. m by 0 crPATTIES / TARBALLS 0 BAGS

NEAR SHORE SHEEN? NO BR RW SL TL

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

DEBRIS COLLECTED

☐ YES ☒ NOTYPE 0#BAGS 0

Photographs: ?

Roll No. 0Frames 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		VO	VC	SR BR	ORL RW	GY	SL	DR TL	LR	SU	UI	M	U				
1	10					✓	-																
2	10					✓	-																
							-																
							-																
							-																
							-																
							-																

COMMENTS Area approx 3m x 4m w/ approx 50% cover of soft asphalt/mousse pads. Oil thickness approx 1-6 cm. Areas of very light splash CT/S approx 30m long and 3m wide was observed also. Soft asphalt/mousse is in between and covering some cobbles. Some mousse was leaching and forming pools of oil (approx. 10cm diameter) or sheen on pooled water. No oil penetration was observed below asphalt/mousse.

ACE 6725768

DRAFT

UG Option
SEGMENT ST/ K3-2-1B-4
SUBDIVISION 1B-4A
DATE 3/31/90

SKETCH MAP

with 1
Approx. Scale 1cm $\approx$ 15m

CHECKLIST

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

LEGEND

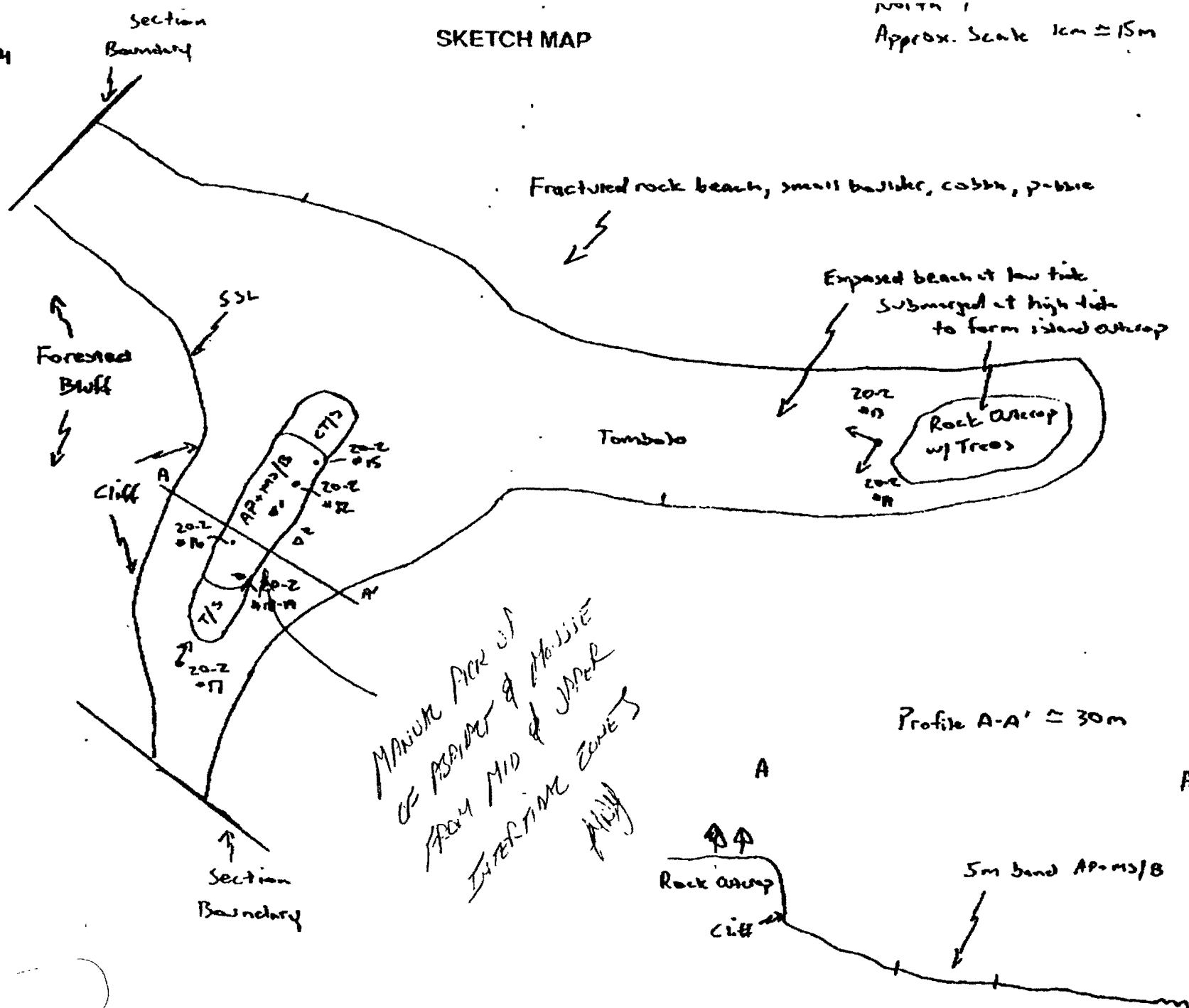
- 1 Δ
Pt - No Subsurface Oil
- 2 Δ
Pt - Subsurface Oil
- CT/C

Continuous Distribution
- CT/B

Broken Distribution
- CT/P

Patchy Distribution
- CT/S

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



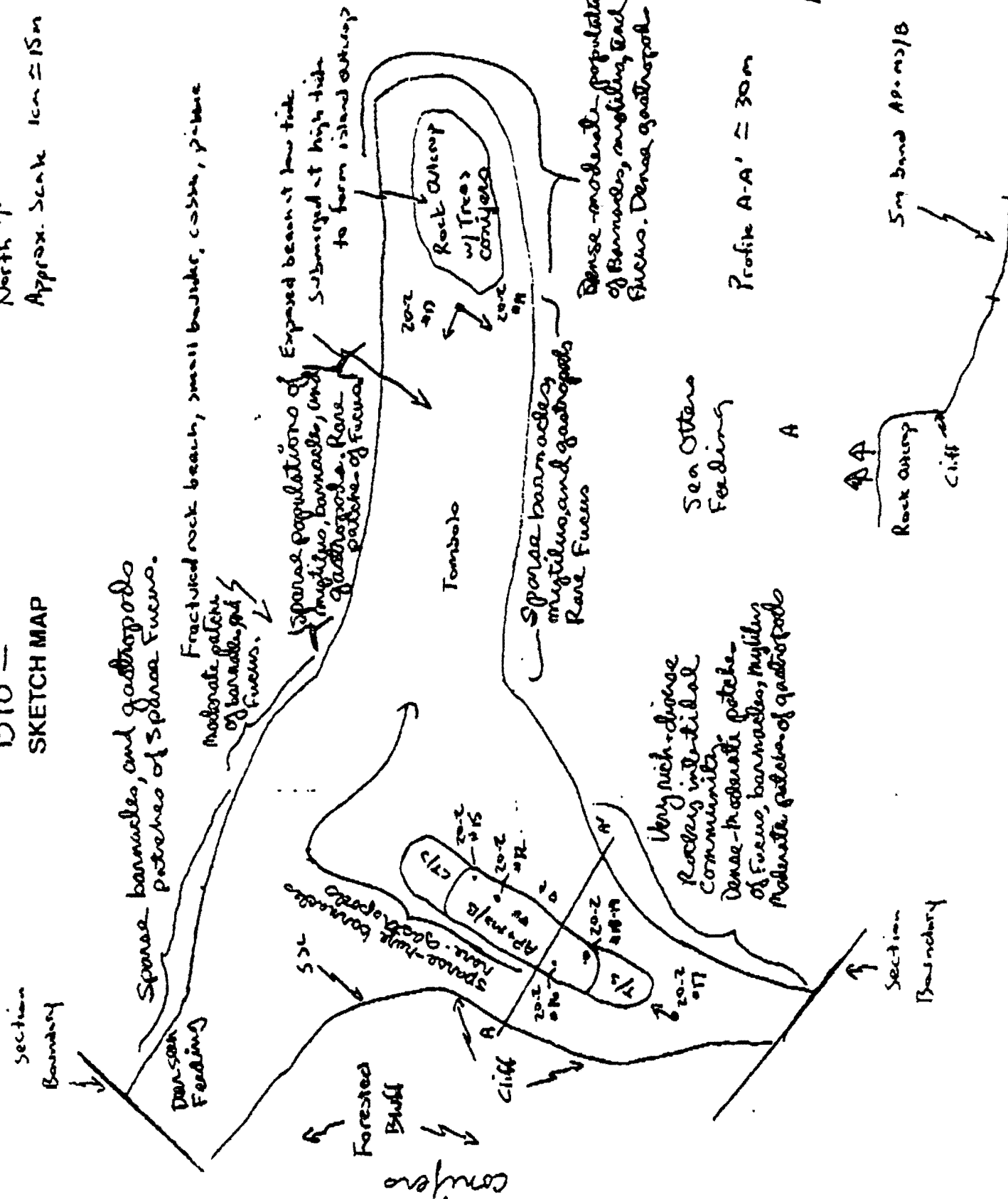
ACE 6725770

Oil Character Length (m): AP 20 PO 0 CV 0 CT 30 ST 0 MS 20 PT 0 TB 0 FL 0 NO 124

REVISION: 00/24/90

Report K3-2-IB-04
 Kodivision IB-4A
 Re 3-31-90

North ↑
Approx. scale 1 cm ≈ 15 m



ACE 6725771

SHORELINE ECOLOGICAL SUMMARY

REVISION: 03/22

Segment ST / K03-02 Subdivision IB-04 A Date (mo / day / yr) 3-31-90Time (24 hr) 10:30 Biologist J. Davis

(A) Substrate type and % of segments:

(1) Bedrock 5 (2) Boulder 35 (3) Cobble 40 (4) Pebble 20 (5) Sand (6) Silt (B) Overall % cover of biota (% of segment): Dense 10% Moderate 30% Low 60% 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 (⊙)

Photographs:

Roll No. 20-2Frames 12-19

BARNACLES

Dense			Moderate			Sparse			Rare			NOT PRESENT 4,5,6
<u>X</u>	<u>X</u>	1L	<u>X</u>	<u>X</u>	<u>X</u>	<u>⊙</u>	<u>X</u>	<u>X</u>	1U	1M	1L	
<u>X</u>	<u>X</u>	2	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>X</u>	<u>X</u>	3	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>X</u>	<u>X</u>	4	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>X</u>	<u>X</u>	5	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>X</u>	<u>X</u>	6	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	

MYTILUS

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

GASTROPODS

Dense			Moderate			Sparse			Rare			NOT PRESENT
<u>X</u>	<u>X</u>	1L	<u>X</u>	<u>X</u>	1L	<u>⊙</u>	1M	1L	1U	1M	1L	
<u>X</u>	<u>X</u>	2	<u>X</u>	<u>X</u>	2	<u>X</u>	2	2	<u>X</u>	2	2	
<u>X</u>	<u>X</u>	3	<u>X</u>	<u>X</u>	3	<u>X</u>	3	3	<u>X</u>	3	3	
<u>X</u>	<u>X</u>	4	<u>X</u>	<u>X</u>	4	<u>X</u>	<u>X</u>	4	<u>X</u>	4	4	
<u>X</u>	<u>X</u>	5	<u>X</u>	<u>X</u>	5	<u>X</u>	<u>X</u>	5	<u>X</u>	5	5	
<u>X</u>	<u>X</u>	6	<u>X</u>	<u>X</u>	6	<u>X</u>	<u>X</u>	6	<u>X</u>	6	6	

FUCUS

Dense			Moderate			Sparse			Rare			NOT PRESENT
<u>X</u>	<u>X</u>	1L	<u>X</u>	<u>X</u>	1L	<u>⊙</u>	<u>X</u>	<u>X</u>	1U	1M	1L	
<u>X</u>	<u>X</u>	2	<u>X</u>	<u>X</u>	2	<u>X</u>	<u>X</u>	2	<u>X</u>	2	2	
<u>X</u>	<u>X</u>	3	<u>X</u>	<u>X</u>	3	<u>X</u>	<u>X</u>	3	<u>X</u>	<u>X</u>	3	
<u>X</u>	<u>X</u>	4	<u>X</u>	<u>X</u>	4	<u>X</u>	<u>X</u>	4	<u>X</u>	<u>X</u>	4	
<u>X</u>	<u>X</u>	5	<u>X</u>	<u>X</u>	5	<u>X</u>	<u>X</u>	5	<u>X</u>	<u>X</u>	5	
<u>X</u>	<u>X</u>	6	<u>X</u>	<u>X</u>	6	<u>X</u>	<u>X</u>	6	<u>X</u>	<u>X</u>	6	

Wildlife Observations/ General Comments: Deer seen feeding in intertidal. *Littorina scutellata* with egg masses under small boulders (6) *Ovalencetsher* (2) Common Loons, (3) Eagles (5) Glaucous Winged Gulls, (2) Grebes, Sea Otters (2), 3/20 Harlequin (2) Common Loons, (6) Cormorants, Crows. Stained Barnacles 95% alive.

Ecological Considerations: (2M, 1J) Salmon purse seining in the area
Herring spawn in the area. IB-05 has an anadromous stream and estuary area. Eagles nest in IB-06

ACE 6725772

B

-C

k3-2-IB-4 A

IB-3

ACE 6725773 - S

XXXX Wide

//// Medium

---- Narrow

TTTT Very Light

0000 No Oil

IB-4

ADEC Segment Length: 194m



Map Key: GOA-125

Name: ActonDate: 3-3-90

Data Entered:

K03-02 IB-005 AFS 252-31-10020
Grassy Lagoon 1990

ACE 1369696





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	2523110020 OK	WAVE EXPOSURE: Low

ASC NUMBER: 252-30-10020

SURVEY TYPE: SS

METHOD: F

DATE: 9/2/89

START TIME: 0834

STOP TIME: 1050

TEAM RECORDER: JEFFREY P BARNHART

OBSERVERS: Randy Talvi, Roger Dunbar

AGENCY(IES): ADF&G

PHOTOS TAKEN? Y

Roll #: 89 RGT-001-K Frames: 12, 13, 14

VIDEO TAKEN? Y Tape Number: H5002

Counter Start: 0971

89TG002K

SAMPLES TAKEN? Y

SAMPLE I.D. NUMBERS: 1. A4-1-1

2. A4-1-2

3.

4.

5.

6.

OILING DATA

	LENGTH	WIDTH	M2	%	THICK	FEN	OIL TYPE
SITE 1	850m	2m	1700	2	1.27cm	surface	MS
SITE 2	45m	33m	1485	3	1.27cm	surface	MS
SITE 3	100m	8m	800	10	2cm	2.5cm	MS
SITE 4	100m	8m	800	10	2cm	5cm	MS
SITE 5							

OVERALL OIL IMPACT: L

OIL IN STREAM CHANNEL? Y

SUBSTRATE

Bedrock	Granule
Boulder	Sand X
Cobble X	Silt X
Pebble X	Veget.

OIL ON BEACH WITHIN 50M OF STREAM MOUTH? Y

SPECIES	PS	SS			
COUNT	395 live 170 dead				

Grassy Lagoon, Adak Island.

COMMENTS: site no. A4-1. Pink Salmon (PS) count from high tide mark in stream to 120m into the estuary. Coho (SS) jumping in lagoon. No count.

ADF&G MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS SS DS TS AVS SCHA MMHS PTA2 REGION: PWS KP, CI K, APMETHOD: Aerial Ground Boat3 DATE: 4-11-9015 HIGH TIDE TIMES: 121 TEAM RECORDER: E. WEISS4 START TIME: 125516 HIGH TIDE HTS: 122 OBSERVERS: BARNHART, BEYERS, THOMAS5 STOP TIME: 133517 LOW TIDE TIMES: 100123 AGENCY: ADF+G / Exxon6 SEGMENT #: I800518 LOW TIDE HTS: -0.624 PHOTOS TAKEN: Y ☒7 STATION #: 252-30-10020

19 TIDE HT AT SURVEY: _____

Roll #: _____ Frame: _____

8 K-UNIT: K0302Ebb Slack Flood Slack25 VIDEO TAKEN: Y ☒ TAPE#: _____9 STAT AREA: 252-3020 USCG QUAD: AFOGNAK A-1

Start: _____ End: _____

10 LAT: 58 14 5411 LONG: 152 19 3326 SAMPLES TAKEN? Y ☒ Number _____12 SOURCE: Map Loran ANADSCAT

Oil _____

13 LOCATION: NW IZHUT BAY, AFOGNAK IS.

Sediment _____

14 DESCRIPTION: _____

Biological _____

Water _____

EXTENT OF OIL

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

36 CATALOGED ANAD. FISH SREAM? ☒ N37 CATALOG #: 252-30-1002038 STREAM NAME: GRASSY LAGOON39 OIL IN STREAM BED? Y ☒ N40 OIL ON STREAM BANKS? ☒ N41 OIL ON BEACH ADJACENT TO MOUTH? ☒ N
(within 50 meters)42 OIL WITHIN 1 MILE OF STREAM? Y ☒ NWhere: NOT SURVEYED30 OVERALL OIL IMPACT: N VL L M H31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain32 OILED DEBRIS? Y ☒33 SHORELINE TYPE: Headland Lagoon Low-lying Rocks Marsh Beach Cove43 ANADROMOUS FISH PRESENT? Y ☒ N34 WAVE EXPOSURE: High Moderate Low44 ANADROMOUS FISH OBSERVATION
Species Aerial Ground35 SUBSTRATE TYPE: Bedrock _____ Boulder 10 Cobble 50Gravel 40 Sand _____ Mud/silt _____

ACE 6890937 →

COMMENTS: MS PT/P AROUND EDGES OF LAGOON UP TO STREAM2-5" DIA. ON NORTH BANK UP TO 24" DIA.Oil is in same location as last fall. Scattered patties on both sides of lagoon up to stream. Easy Type A cleanup.

RECOMMEND: YES ANADSCAT

Edward Jeff Barnhart

45 PHOTOLOG

FRAME(S)	DESCRIPTION

46 OIL DISTRIBUTION DIAGRAM

= Sample taken
= Photo frame # and
shot direction.

ACE 6890938

ADF&G MULTI-ASSESSMENT FORM
1991 GENERAL ENTRY CHECKLIST

"Grassy lagoon" ✓

252
STREAM#: 2513110020
SEGMENT: -0-

PAGE 23

DATE PRINTED: 07/25/91

LOCATION: -0-

SURVEY TYPE: 90 CLEANUP

METHOD: FOOT

DATE: 06/05/90

TEAM RECORDER: BARNHART

START TIME: 0745

OBSERVERS: AVERY TURNER DAVIS BENNIS
CROSBY

END TIME: 1000

TIDES: -0-

AGENCY: FG EXX USCG ADEC USFWS

OG/HAB DISCREPANCIES: -

PHOTOS TAKEN: N

STATION: 2513110020

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: Y

WAVE EXPOSURE: LOW

SHORELINE TYPE: LAGOON

SUBSTRATE TYPE: BEDROCK 10 BOULDER -0- COBBLE 70 VEGETAT -0-

GRAVEL 20 SAND -0- MUD/SILT -0- GRANULE -0-

ANADROMOUS FISH PRESENT: -

SPECIES: PACIFIC HERRING

COUNT: 200

RED FOX

2

-0-

-0-

-0-

-0-

-0-

-0-

ADF&G MULTI-ASSESSMENT FORM
1991 OILING ENTRY CHECKLIST

PAGE 23

DATE PRINTED: 07/26/91

STREAM# : 2513110020
SEGMENT#: -0-

SURVEY TYPE : 90 CLEANUP

LOCATION: -0-

DATE: 06/05/90

TIMES: 0745 - 1000

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-	600	1.5	900	1	2	-0-	MS TP

COMMENTS:

GRASSY LAGOON WAS CLEANED BY SIX RESOURCE AGENCY REPS/EXXON REPS AND TWO VECO EMPLOYEES. ONLY SURFACE OIL EXISTED IN THIS SYSTEM WHICH WAS REMOVED TO A HIGHLY ACCEPTABLE LEVEL. I OBSERVED A SCHOOL OF APPROXIMATELY 200 PACIFIC HERRING IN THE ESTUARY. IB005 WAS THE FIRST SEGMENT TREATED IN THE KODIAK ZONE DURING 1990. O. FLORSCHUTZ WAS ALSO PRESENT. ELK TRACKS OBSERVED.



90 cleanup

ASC NUMBER: LOCATION: REAM NAME: Grassy Lagoon KODIAK K-UNIT: USGS QUADRANGLE: SHORELINE TYPE: Lagoon

SEGMENT NUMBER: LOCAL STREAM #:

YR CATALOGED: LATITUDE: LONGITUDE: LEGAL: WAVE EXPOSURE: LOW

ASC NUMBER: 250-31-10020
SURVEY TYPE: CL
METHOD: Foot
DATE: 6/5/90
START TIME: 0745
STOP TIME: 1000

TEAM RECORDER: JEFF BARNHART
OBSERVERS: F. Avery / T. Turner, J. Davis, F. Bennis / C. Cross,
O. Florschütz
AGENCY (IES): ADFG, Exxon, USCG, ADEC, USFWS

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	600 m	1.5 m	900	1	2 cm	Ø	MS, TP
SITE 2							
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT: VL

OIL IN STREAM CHANNEL? Y

SUBSTRATE

Bedrock 10 Granule
Boulder Sand
Cobble 70 Silt
Pebble 20 Veget.

OIL ON BEACH WITHIN 50M OF STREAM MOUTH? Y

SPECIES	pacific herring	Red Fox	EIK		
COUNT	200+	2	Tracks		

COMMENTS: Grassy Lagoon was cleaned by six resource agency reps / Exxon reps. and two VECO employees. Only surface oil existed in this system, which was removed to a highly acceptable level. I observed a school of approximately 200 Pacific herring in the estuary. IB-05 was the first segment treated in the Kodiak zone during 1990.

90 Cleanup

ASC NUMBER:	SEGMENT NUMBER:	YR CATALOGED:
LOCATION:		
STREAM NAME: <i>Grassy Lagoon</i>	LOCAL STREAM #:	LATITUDE:
KODIAK K-UNIT:		LONGITUDE:
USGS QUADRANGLE:		LEGAL:
SHORELINE TYPE: <i>Lagoon</i>		WAVE EXPOSURE: <i>LOW</i>

ASC NUMBER: *251-31-10020*
 SURVEY TYPE: *CL*
 METHOD: *Foot*
 DATE: *6/5/90*
 START TIME: *0745*
 STOP TIME: *1000*

TEAM RECORDER: *JEFF BARNHART*
 OBSERVERS: *F. Avery / T. Turner, J. Davis, F. Bennis / C. Crosby, O. Florschutz*
 AGENCY (IES): *ADF&G, Exxon, USCG, ADEC, USFWS*

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	<i>600 m</i>	<i>1.5 m</i>	<i>900</i>	<i>1</i>	<i>2 cm</i>	<i>Ø</i>	<i>MS, TP</i>
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? *Y*

SUBSTRATE	
Bedrock <i>10</i>	Granule
Boulder	Sand
Cobble <i>70</i>	Silt
Pebble <i>20</i>	Veget.

SPECIES	<i>pacific herring</i>	<i>Red Fox</i>	<i>EIK</i>		
COUNT	<i>200+</i>	<i>2</i>	<i>Tracks</i>		

COMMENTS: *Grassy Lagoon was cleaned by six resource agency reps / Exxon reps. and Two UECO employees. Only surface oil existed in this system which was removed to a highly acceptable level. I observed a school of approximately 200 pacific herring in the estuary. IB-05 was the first segment treated in the Kodiak zone during 1990.*

State of Alaska
Department of Fish and Game
Habitat Division

Page 1 of 1

Field Inspection Report

Date 6/5/90 Time 1000 hours

Location: (Logging unit/Road/Waterbody) K03-02 IB005
Anadromous Fish Stream 252-31-10020 Grassy Lagoon, Afognak
Island, Izhut Bay.

Operator/Contractor: Exxon. EVOS

Individuals present at time of inspection:

Name	Representing
<u>FRAN BENNIS</u>	<u>ADEC</u>
<u>CLAIR CROSBY</u>	<u>ADEC</u>
<u>OTTO Florschütz</u>	<u>USFWS</u>
<u>JOHN DAVES</u>	<u>USCG</u>
<u>JOHN TURNER</u>	<u>Exxon</u>
<u>Floyd AVERY</u>	<u>Exxon</u>

Activity/Situation Observed: Only surface oil existed in this system,
which was removed to a highly acceptable level.

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 Fisheries Biologist
Fish and Game Representative/Title

Company Representative/Title

ACE 6890941

State of Alaska
Department of Fish and Game
Habitat Division

Page 1 of 1

Field Inspection Report

Date 6/5/90 Time 1000 hours

Location: (Logging unit/Road/Waterbody) K03-02 IB005
Anadromous Fish Stream 252-31-10020 Grassy Lagoon, Afognak
Island, Izhut Bay.

Operator/Contractor: Exxon. EVOS

Individuals present at time of inspection:

Name	Representing
<u>FRAN BENNIS</u>	<u>ADEC</u>
<u>CLAIR CROSBY</u>	<u>ADEC</u>
<u>OTTO FLARSCHUTZ</u>	<u>USFWS</u>
<u>JIM DAVIS</u>	<u>USCG</u>
<u>JIM TURNER</u>	<u>Exxon</u>
<u>FLOYD AVERY</u>	<u>Exxon</u>

Activity/Situation Observed: Only surface oil existed in this system,
which was removed to a highly acceptable level.

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 Fisheries Biologist
Fish and Game Representative/Title

Company Representative/Title

State of Alaska
Department of Fish and Game
Habitat Division

Page 1 of 1

Field Inspection Report

Date 6/5/90 Time 1000 hours

Location: (Logging unit/Road/Waterbody) K03-02 IB005
Anadromous Fish Stream 252-31-10020 Grassy Lagoon, Afognak
Island, Izhut Bay.

Operator/Contractor: Exxon EVOS

Individuals present at time of inspection:

Name	Representing
<u>FRAN BENNIS</u>	<u>ADEC</u>
<u>CLAIR CROSBY</u>	<u>ADEC</u>
<u>OTTO Flerschütz</u>	<u>USFWS</u>
<u>JEFF DAVIS</u>	<u>USCG</u>
<u>DEM TURNER</u>	<u>Exxon</u>
<u>Floyd AVERY</u>	<u>Exxon</u>

Activity/Situation Observed: Only surface oil existed in this system,
which was removed to a highly acceptable level.

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 Fisheries Biologist
Fish and Game Representative/Title

Company Representative/Title

State of Alaska
Department of Fish and Game
Habitat Division

Page 1 of 1

Field Inspection Report

Date 6/5/90 Time 1000 hours

Location: (Logging unit/Road/Waterbody) K03-02 IB005
Anadromous Fish Stream 252-31-10020 Grassy Lagoon, Afognak
Island Izhut Bay.

Operator/Contractor: Exxon EVOS

Individuals present at time of inspection:

Name	Representing
<u>FRAN BENNIS</u>	<u>ADEC</u>
<u>CLAIR CROSBY</u>	<u>ADEC</u>
<u>OTTO FLORSCHUTZ</u>	<u>USFWS</u>
<u>TEAL DAVES</u>	<u>USCG</u>
<u>TEAL TURNER</u>	<u>Exxon</u>
<u>FLOYD AVERY</u>	<u>Exxon</u>

Activity/Situation Observed: Only surface oil existed in this system,
which was removed to a highly acceptable level.

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 Fisheries Biologist
Fish and Game Representative/Title Company Representative/Title

K03-02 IB-05

Grassy Lagoon.

				43
6/5	5:45 AM	go TO ICF	6:45 AM	
		in helicopter, Briefing, warm up.		
		weather CAVU. wind light & variable.		
		Destination Izhut Bay IB005		
		Grassy Lagoon, cleanup. Fran Bennis (DEC)		
		OTTO Flosschutz (USFWS) & myself.		
	BH 212	Land wing site 7:20 AM.		
		Mike Reavis - USCO Foreman meet on		
		beach. Done with Lagoon ^{Cleanup} 10 AM		
	5-6 bags	depart IB005 12 NOON		
	[Took 2800 pounds off WIMP site (IB0)			
	by 10:30 AM. Total weight			
	might go 4,000 +. OTTO USFWS			
	Stayed on beach to oversee			
	cleanup.] 72°K bright sun.			
	Saw a silver & a cross fox in			
	grassy Lagoon. Numerous Elk			
	Tracks 1 set from last night			
	on this AM. Saw a school			
	of 200 herring at Lagoon			
	mouth land Kodiak Airport			
	12:30 PM.			
				6/5/90
				JFB/BH

ACE 6890940 + F/FF

STEVE COWPER, GOVERNOR

DEPARTMENT OF FISH AND GAME

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

EXXON Valdez Oilspill Cleanup
Anadromous Fish Stream Authorization

Date 6/5/90

EXXON Authorized Representative TIMOTHY W. TURNER

Shoreline Segment K03-02 IB005

Anadromous Fish Stream Number(s) 252-31-10020 Grassy Lagoon

Approved Cleanup Techniques manual pickup of Tar balls
and mousse / Tar patties in and around Grassy Lagoon
and Stream.

Approved Cleanup Period 6/5/90 - 6/6/90

Alaska Department of Fish and Game

Jeffrey P. Barnhart
Authorized Officer

Timothy W. Turner
Permittee's Signature

ACE 6890942

ADEC DAILY SHORELINE ASSESSMENT

20

K3-02-

LOCATION: Izhet Bay Agognak Is. SEG IB05 SUBSEG AMONITOR(S): Clara S. CrosbyDATE: 06/05/90TIME: BEGIN 0830 END 1030

TIDES:	TIME:	HEIGHT:	WEATHER: CLOUDY RAIN FOG <u>SUN.</u>
LOW	<u>0734</u>	<u>0.4</u>	TEMP: <u>60</u> SEA COND: <u>1-2 ft swell</u>
HIGH	<u>049</u>	<u>16.5</u>	WIND DIR: <u>N-NE-E-SE-S-SW-W-NW</u>
LOW	<u>1931</u>	<u>4.9</u>	WIND SPEED (KNOTS) <u>10-15</u> 16-30 30+
HIGH	<u>1404</u>	<u>14.7</u>	

ENVIRONMENTAL CONSTRAINTS: (SEAL HAULOUTS, EAGLE NESTS, MUSSEL BEDS, ETC.) BAA, 1A, 1B, 5T-ADFCG rep on site -USEWS rep on site -WAVE EXPOSURE: LOW MED HIGH
ACROSS SHORE ZONE: SU UITZ MITZ LITZSURFACE SEDIMENTS: R 1 B 10 C 70 P 20 G 1 S 1
SUBSURFACE SEDIMENTS: R 1 B 1 C 1 P 1 G 1 S 1

OIL CHARACTERISTICS

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

TREATMENT TECHNIQUES

MANUAL RAKING/TILLING HEADER FLOOD (HOT/COLD)
MANUAL REMOVAL: PO RS AP TB BIOREMEDIATION
SPOT WASHING MECHANICAL
OTHEREQUIPMENT USED: trawlsNAMES OF REPS & OTHER AGENCIES: EXXON Tim TurnerUSCG Jim Davis Bm3 OTHER: ADFCG Jeff BarnhartWORKERS ON SITE: ORTS 2 OTHER: USEWS Otto Florshutz

WASTE HANDLING/DISPOSAL

ITEMS USED TO ABSORB/CONTAIN OIL

ACE 6890943 + S

OF BAGS COLLECTED: 4/40 16 bags
OILED DEBRIS 4/40 OIL & SEDIMENTS 4/40 OILED VEG. 0
OILED LOGS PRESENT: Y (N) # OF LOGS REMOVED 0

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.)

OBSERVATIONS: TREATMENT EFFICIENCY, POSSIBLE IMPROVEMENTS, ETC. _____

K03 02 IP OF A - BANKS of STREAM were walked
by Agency Reps - whom recovered oiling observed
→ with two video employees -
→ CEPS included following personnel -

ADEC - Clara Crosby

USCG - Jim Davis -

Fran Dennis

ADF-G - Jeff Barnhart

KODIAK Zone -

USFWS - Otto Orshutz

EXXON - Floyd Avery

ACE 6890944 - S

Tim Thayer

SIGNATURE

Clara S. Crosby

**ADEC DEMOBILIZATION REPORT
FOR PHYSICAL/MECHANICAL TREATMENT AND CUSTOMER**

To: Alaska Department of Environmental Conservation
Oil Spill Response Center
Anchorage, Alaska
Attn: John Bauer *K03-02*
FAX 265-4666, 265-4656

RE: SEGMENT NUMBER IBO5 ^{cc} SUBSEGMENT NUMBER A

DEC REP Clara Crosby USCG REP Jim Davis BM3

EXXON REP Tim Turner BOAT NAME/SQUAD NUMBER Yukon River #7

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

Yes - Agency representatives (in two groups; one on N shore, one on south shore) walked stream area & recovered TB/s within stream area 4. small, 40 lb bags of oiled sediment were recovered. - Agencies included ADF&G, USFWS, EXXON, USCG, ADEC.
Is there additional oil remaining which can be removed with further physical/mechanical treatment? If yes what is the recommended treatment method.

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

An occasional TB/s could have been overlooked -

Additional Comments (keep objective)

ADF&G representative, Jeff Barnhart from Kodiak, was SATISFIED w/ cleanup.

signature Clara L. Crosby

Date and time of demobilization from segment 06/05/90

Shoremon\55 5-12-90

EVOS CLEANUP MONITORING, 1990.

REGION: Kodiak

K-UNIT: K03-02

SEGMENT: IB-05

LOCATION: Izhut Bay, Afognak Island.

STREAM NAME: Grassy Lagoon

ANAD. STREAM CAT. #: 251-31-10020

ANAD. FISH STREAM PERMIT ISSUED: 6/5/90

DATE(S) WORKED: 6/5/90

SQUAD #: 7, Youkon River

SQUAD SIZE: 8

NUMBER OF BAGS Collected: 5

POUNDS OF OIL/OILED SEDIMENT REMOVED: 200

TREATMENT TECHNIQUES: MANUAL REMOVAL X BIOREMEDIATION

OTHER

REPRESENTATIVES

Exxon: Floyd Avery / Tim Turner

USCG: Jim Davis

DEC: Fran Bennis / Clair Crosby

NPS: NONE

USFWS: OTTO Florschütz

ADFG: JEFF Barnhart

OTHER:

HOURS WORKED: 2.0

TOTAL MAN HOURS worked: 16

Work order Issued 6/4

OIL BANDS

DEMOP DATE: 6/5/90

L 600m W 1.5m D 2cm m² %oil cover <1 V

OIL SAMPLE(S) #: NONE

L W D m² %oil cover V

oil Type MS, TP

L W D m² %oil cover V

Substrate Type see Analysis

L W D m² %oil cover V

L W D m⁸ %oil cover V

PHOTOLOG

Roll #

FRAME #

DESCRIPTION

NONE

PROBLEMS: NONE.

OBSERVATIONS: Grassy Lagoon was cleaned by six agency/Exxon reps. and Two VECO employees. Only surface oil existed in this system, which was removed to a highly acceptable level.

I observed a school of approximately 200 pacific herring in the estuary. IB-05 was the first segment treated in the Kodiak zone during 1990.

SIGNED: Jeffery P Barnhart

ANEC DEMOBILIZATION REPORT
FOR PHYSICAL/MECHANICAL TREATMENT AND CUSTOMER

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

RE: SEGMENT NUMBER 13004 SUBSEGMENT NUMBER A

DEC REP Clara S. Crosby USCG REP Jim Davis BM3

EXXON REP Tim Turner BOAT NAME/SQUAD NUMBER Yukon River #7

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

yes -

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

no - minimal oil would be recovered w/ further manual removal -

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

OResidual oiling around areas worked - an occasional TB - mousse patch -

Additional Comments (keep objective)

USFWS Rep. Otto Horstutz was satisfied w/ Cleanup of area -

signature

Clara S. Crosby

Date and time of demobilization from segment

Shoreman\55

(-12-)

06/05/90

ACE 672577645

ADEC DAILY SHORELINE ASSESSMENT

LOCATION: Iztut Bay, Afognak Island K3-02 SEG 1B04 SUBSEG A
 MONITOR(S): Chris S Crosby
 DATE: 06/05/90 TIME: BEGIN 0730 END 1800

TIDES: TIME: HEIGHT: WEATHER: CLOUDY RAIN FOG SUN.
 LOW 0734 0.4 TEMP: 60° SEA COND: 2 ft swell
 HIGH 049 16.5 WIND DIR: N-NE-E-SE-S-SW-W-NW
 LOW 1931 4.9 WIND SPEED: (KNOTS): 0-15 16-30 30+
 HIGH 1404 14.7

ENVIRONMENTAL CONSTRAINTS: (SEAL HAULOUTS, EAGLE NESTS, MUSSEL BEDS, ETC.) 2M, IS

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

SURFACE SEDIMENTS: R B40 * C 40 * P 20 * G S *
 SUBSURFACE SEDIMENTS: R B * C 30 * P 30 * G 30 * S 10 *

OIL CHARACTERISTICS

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

TREATMENT TECHNIQUES

MANUAL RAKING/TILLING HEADER FLOOD (HOT/COLD)
 MANUAL REMOVAL: POAMS-AP-TB BIOREMEDIATION
 SPOT WASHING MECHANICAL
 OTHER

EQUIPMENT USED: trucks, shovels, pumps
 NAMES OF REPS & OTHER AGENCIES: EXXON Tim Turner
USCG Jim Davis B-3 OTHER: ADFG - JEFF BARNHART
 WORKERS ON SITE: ORTS 11 OTHER: USFWS OTTO FLORESHUTZ

WASTE HANDLING/DISPOSAL

ACE 6725777

ITEMS USED TO ABSORB/CONTAIN OIL POAMS
 # OF BAGS COLLECTED: 375
 OILED DEBRIS 2.75 OIL & SEDIMENTS 2.75 OILED VEG. 0
 OILED LOGS PRESENT: Y N # OF LOGS REMOVED 0

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.)

OBSERVATIONS: TREATMENT EFFICIENCY, POSSIBLE IMPROVEMENTS, ETC. _____

Also on scene were Adec Rep: from Kodiak -
FRANCINE BENNIS & Exxon rep Floyd Avery
OUPS REP - James Byars

Segment was completed today -

WILKINSON

ACE 6725778 -S

SIGNATURE

Clara S. Crosby

ADEC DAILY SHORELINE ASSESSMENT

LOCATION: Izhut Bay, Agassiz Island SEG 1304 SUBSEG A
MONITOR(S): Clara S Crosby
DATE: 6/05/90 TIME: BEGIN 0730 END 1800

TIDES: TIME: HEIGHT: WEATHER: CLOUDY RAIN FOG SUN.
LOW 0724 0.4 TEMP: 100° SEA COND: 1-2 ft swell
HIGH 0809 16.5 WIND DIR: N-NE-E-SE-S-SW-W-NW
LOW 1431 9.9 WIND SPEED (KNOTS): 0-15 16-30 30+
HIGH 1404 14.7

ENVIRONMENTAL CONSTRAINTS: (SEAL HAULOUTS, EAGLE NESTS, MUSSEL BEDS, ETC.) 2M, EJ

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

SURFACE SEDIMENTS: R 40 B 40 C 40 P 20 G 40 S 40
SUBSURFACE SEDIMENTS: R 40 B 40 C 30 P 20 G 30 S 10

OIL CHARACTERISTICS

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

TREATMENT TECHNIQUES

MANUAL RAKING/TILLING HEADER FLOOD (HOT/COLD)
MANUAL REMOVAL: POHMS-AP-TB BIOREMEDIATION
SPOT WASHING MECHANICAL
OTHER

EQUIPMENT USED: trawls, shovels, pumps
NAMES OF REPS & OTHER AGENCIES: EXXON-TIM TURNER
USCG Jim Davis Bm3 OTHER: AFEG-JEFF BARNHART
WORKERS ON SITE: ORTS 11 OTHER: USFWS OTTO FLORESHUTZ

WASTE HANDLING/DISPOSAL

ACE 6725779

ITEMS USED TO ABSORB/CONTAIN OIL POHMS
OF BAGS COLLECTED: 1
OILED DEBRIS 3.75 OIL & SEDIMENTS 2.6 OILED VEG. 0
OILED LOGS PRESENT: Y N # OF LOGS REMOVED 0

ADDENDUM: SUBDIVISION CONSTRAINTS

K03-02-18-05

SEGMENT ~~K002-18-5~~ 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 (252-31-10020) is in Subdivision A. No constraint to manual pickup.

5R Seabird Colony

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

5T Bald Eagle Nest

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

OTHER ECOLOGICAL CONSIDERATIONS

No disturbance to stream bed or banks. Avoid any unnecessary disturbance or damage to unrolled blots and substrate.

FOSC

Date

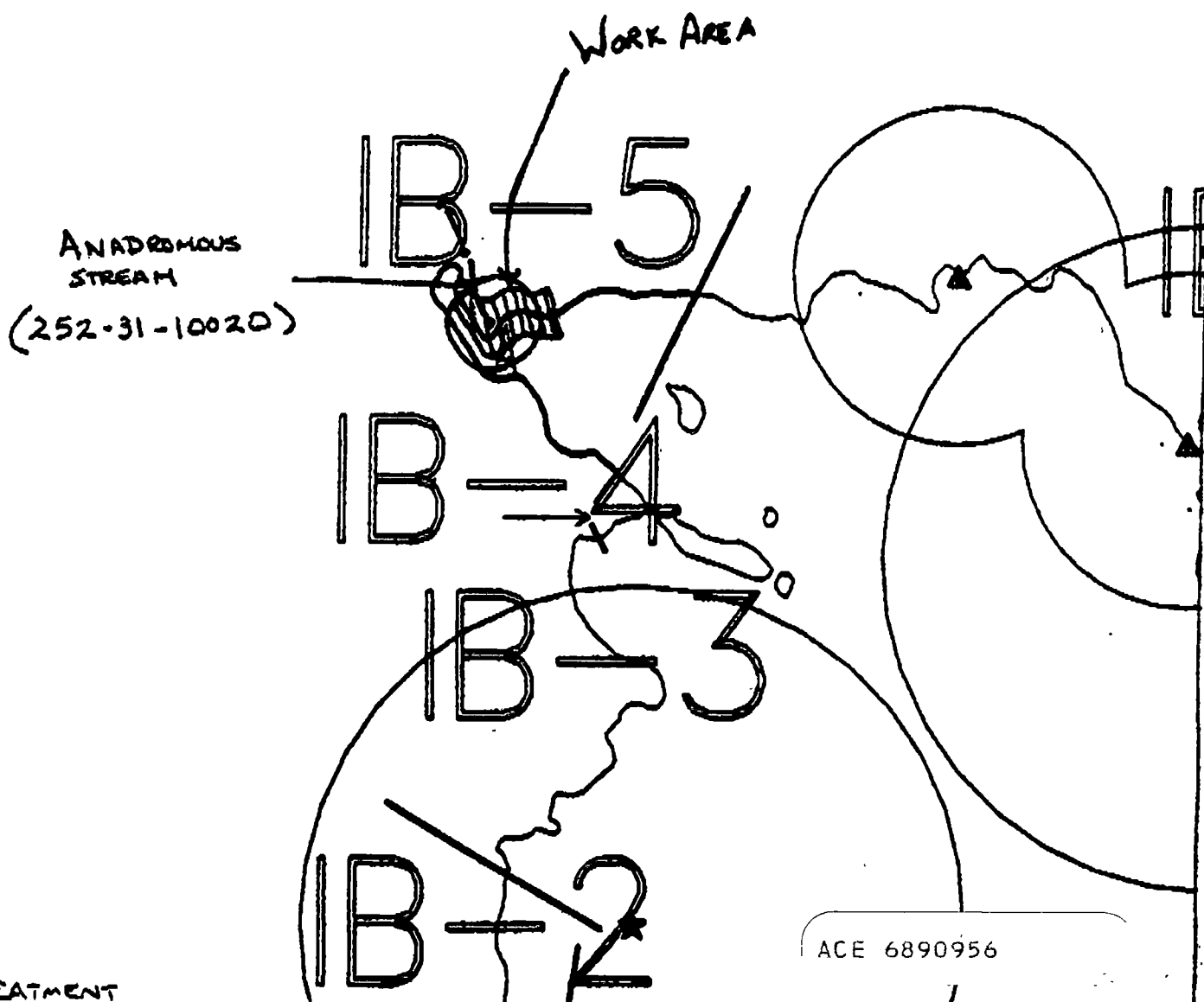
6-10-90

Prepared by

Date

6/10/90

ACE 6890955+FS/FF



Exxon Company, USA
Map Key: KOD-IB-5
May 17, 1990



ECOLOGY MAP
SEGMENT IB-5
SUBDIVISION A (J.L.O.L.)
METERS



- ★ Seabird Colony
- ▲ Eagle Nest

1 inch = 1320 feet

SHORELINE EVALUATIONSEGMENT ST/ K0302-IB-5 SUBDIVISION A (1 OF 1) DATE 3/31/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

Sensitive estuary (SAA): Stream mouth (Asc #252-30, #10020). Out-
migration (1A) - 3/1 to 5/15 and spawning (1B) - 7/10 to 8/31;
Possible bald eagle nest (5T) - contact ADF&G to verify eagle nest
location.

SUBDIVISION ECOLOGICAL CONSTRAINTS: Avoid disturbance/damage to un-
oiled 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 Re-
source Program immediately (564-3657; 564-3658 or 564-3276).

SHPO SIGNATURE: Charles E. Homan DATE: April 11, 1990

OILING CATEGORIZATION:

Wide 0 m: Medium 0 m: Narrow 0 m: V.Light 362 m: No Oil 1172 m
Subsurface Oil Observed: Yes No X Maximum Depth

RECOMMENDATIONS:

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

COMMENTS: Manual pickup of mousse is recommended with a small
team (2-4 people) to minimize disturbance.

SEE CNSTC ADDENDUM DATED 6/14/90

TAG COMMENTS:

TAG APPROVAL DATE: 4/11/90ADEC JOHN BAUEREXXON ANDY GALTNOAA BRIAN WILSONUSCG G.A. REITERFOSC: V-DATE: 4-2-90

ACE 6890957-5

WORK PLAN MODIFICATION RECOMMENDATION

SEGMENT: K03-02 IBC04 SUBDIVISION: _____

DATE: 7/26/90

MODIFICATION

1. REASON FOR MODIFICATION: The tar mat was removed by manual methods on June 5, 1990. Oil now exists on the beach in the form of oiled sand/gravel in the interstitial areas between/among the cobble/boulder as well as mousse with incorporated gravel. The oiled area is in a segment adjacent to an anadromous fish stream (252-31-10020) and represents an important rearing area for pink salmon fry. It is also a herring spawning area.

The work order recommended manual pickup only. Standard protocol for tar mat removal is: manual pickup followed by raking and bioremediation. Manual pickup has been completed.

2. SUGGESTED ADJUSTMENT TO WORK PLAN:

The remaining oil and oiled sediments from the tar mat removal should be broken apart and customblen applied.

3. TIMING ISSUES:

USCG _____

ADEC _____

LAND MANAGER _____ (If field representative is on site)

EXXON: _____

ADF&G: Jeffrey L. Barnhart

ACE 6725780-4/FF

State of Alaska
Department of Fish and Game
Habitat Division

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Field Inspection Report

Date 6/15/90 Time 1240 hours

Location: (Logging unit/Road/Waterbody) K0302 - IB004 adjacent to K03-02
IB005 Anadromous Fish Stream 252-31-10020 Grassy Lagoon Stream,
Afognak Island

Operator/Contractor: Exxon Corporation. EVOS

Individuals present at time of inspection:

<u>Name</u>	<u>Representing</u>
<u>Terry Ellsworth</u>	<u>ADEC</u>
<u>John Hardister/DTto Florschutz</u>	<u>USF&WS</u>
<u>Commander Archie Smith</u>	<u>USCG</u>
<u>Stennie Meadours</u>	<u>NOAA</u>

Activity/Situation Observed: This oiled beach is the ISCC WIMP site #K-05 in
Izhut Bay. The tar mat was removed by manual methods on June 5, 1990 by the crew
of the m/v Yukon River. Oil now exists on the beach in the form of oiled sand/
gravel in the interstitial areas between/among the cobble/boulder as well as
sticky mousse patties with incorporated gravel.
Since the summer of 1989 this tar mat has persisted with very little, if any, dissipation.
In my opinion, the oil remaining on the beach after the tar mat removal will not
dissipate at a rapid rate.

Pertinent Statutes/Regulations: _____

Recommended/Required Action (Specify): The oiled area is in a segment adjacent
to an anadromous fish stream and represents an important rearing area for pink
salmon fry. It is also a herring spawning area. The work order recommends
manual pickup only. The protocol for tar mat removal is: manual pickup followed
by raking and bioremediation (Customblen) application. The manual pickup has
been completed. The remaining oil and oiled sediments should be broken
apart and customblen applied.

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

State of Alaska
Department of Fish and Game
Habitat Division

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Field Inspection Report

Date 6/15/90 Time 1240 hours

Location: (Logging unit/Road/Waterbody) K0302 - IB004 adjacent to K03-02
IB005 Anadromous Fish Stream 252-31-10020 Grassy Lagoon Stream,
Afognak Island

Operator/Contractor: Exxon Corporation. EVOS

Individuals present at time of inspection:

<u>Name</u>	<u>Representing</u>
<u>Terry Ellsworth</u>	<u>ADEC</u>
<u>John Hardister/DTE Florschutz</u>	<u>USF&WS</u>
<u>Commander Archie Smith</u>	<u>USCG</u>
<u>Stennie Megdours</u>	<u>NOAA</u>

Activity/Situation Observed: This oiled beach is The ISCC, WIMP site # K-05 in
Izhut Bay. The Tar mat was removed by manual methods on June 5, 1990 by The crew
of The m/v Yukon River. Oil now exists on The beach in The form of oiled sand/
gravel in The interstitial areas between /among The cobbles/boulder as well as
sticky mousse patties with incorporated gravel.
Since The summer of 1989 This Tar mat has persisted with very little, if any, dissipation.
In my opinion, The oil remaining on The beach after The Tar mat removal will not
dissipate at a rapid rate.

Pertinent Statutes/Regulations: _____

Recommended/Required Action (Specify): The oiled area is in a segment adjacent
To an anadromous fish stream and represents an important rearing area for pink
salmon fry. It is also a herring spawning area. The work order recommends
manual pickup only. The protocol for Tar mat removal is: manual pickup followed
by raking and bioremediation (customblen) application. The manual pickup has
been completed. The remaining oil and oiled sediments should be broken
apart and customblen applied.

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.

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Field Inspection Report

Date 6/15/90 Time 1240 hours

Location: (Logging unit/Road/Waterbody) K0302 - IB004 adjacent to K03-02
IB005 Anadromous Fish Stream 252-31-10020 Grassy Lagoon Stream,
Afognak Island

Operator/Contractor: Exxon Corporation. EVOS

Individuals present at time of inspection:

<u>Name</u>	<u>Representing</u>
<u>Terry Ellsworth</u>	<u>ADEC</u>
<u>John Hardister/DTE Florschutz</u>	<u>USFWS</u>
<u>Commander Archie Smith</u>	<u>USCG</u>
<u>Stennie Meadors</u>	<u>NOAA</u>

Activity/Situation Observed: This oiled beach is the ISCC, WIMP site #K-05 in
Izhut Bay. The Tar mat was removed by manual methods on June 5, 1990 by the crew
of the m/v Yukon River. Oil now exists on the beach in the form of oiled sand/
gravel in the interstitial areas between/among the cobbles/boulders as well as
sticky mousse patties with incorporated gravel.
Since the summer of 1989 this Tar mat has persisted with very little, if any, dissipation.
In my opinion, the oil remaining on the beach after the Tar mat removal will not
dissipate at a rapid rate.

Pertinent Statutes/Regulations: _____

Recommended/Required Action (Specify): The oiled area is in a segment adjacent
to an anadromous fish stream and represents an important rearing area for pink
salmon fry. It is also a herring spawning area. The work order recommends
manual pickup only. The protocol for Tar mat removal is: manual pickup followed
by raking and bioremediation (Customblen) application. The manual pickup has
been completed. The remaining oil and oiled sediments should be broken
apart and Customblen applied.

By (date) _____ (if applicable)

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Fish and Game Representative/Title

Company Representative/Title

State of Alaska
Department of Fish and Game
Habitat Division

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Field Inspection Report

Date 6/15/90 Time 1240 hours

Location: (Logging unit/Road/Waterbody) K0302 - IBO04 adjacent to K03-02
IBO05 Anadromous Fish Stream 253-31-10020 Grassy Lagoon Stream,
Ategnak Island

Operator/Contractor: Exxon Corporation, EVOS

Individuals present at time of inspection:

<u>Name</u>	<u>Representing</u>
<u>Terry Ellsworth</u>	<u>ADEC</u>
<u>John Hardister/Dita Florschutz</u>	<u>USFWS</u>
<u>Commander Archie Smith</u>	<u>USCG</u>
<u>Stennie Meadows</u>	<u>NOAA</u>

Activity/Situation Observed: This oiled beach is the ISCC WIMP site #K-05 in
Izhut Bay. The Tar mat was removed by manual methods on June 5, 1989 by the crew
of the M/V Yukon River. Oil now exists on the beach in the form of oiled sand/
gravel in the interstitial areas between/among the rubble/boulder as well as
sticky mousse patties with incorporated gravel.
Since the summer of 1989 the Tar mat has persisted with very little, if any, dissipation.
In my opinion, the oil remaining on the beach after the Tar mat removal will not
dissipate at a rapid rate.

Pertinent Statutes/Regulations: _____

Recommended/Required Action (Specify): The oiled area is in a segment adjacent
to an anadromous fish stream and represents an important rearing area for pink
salmon fry. It is also a breeding spawning area. The work order recommends
manual pickup only. The protocol for Tar mat removal is: manual pickup followed
by eating and bioremediation (customblen) application. The manual pickup has
been completed. The remaining oil and oiled sediments should be broken
apart and customblen applied.

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. Barshart F.B.I.
Fish and Game Representative/Title

Company Representative/Title

48

ISBC meeting 3 pm - 4:15.

Talks between agencies ^{over} 5:15
6/12/90 Jeff Burnhart

6/15 12:10 pm In Helicopter Briefing. ERA
Helicopter 412. Crew. Stennie Meadows NOAA
Commander Smith (USCG), Terry Ellsworth (DEC)
John Hardister + Otto Florschutz USFWS & myself
Destination Ishut Bay IB004 WIMP SITE
Depart Airport 1219 hours. Land Ishut 1240 hours
Depart IB004 1:40 pm. Rain, Solid overcast
ceiling 800 feet. Recoverable oil exists
on the beach in the form of oiled gravel
in the interstitial areas between the rocks
as well as brown sticky mousse/gravel
patches left remaining on the beach. This
tar matt has been persistent thru the
winter months. Much of the oiled gravel
has/is hardened over. The least ^{amount of} treatment
it should receive is raking followed by
application of ~~the~~ Customblon granular
fertilizer. Otto Florschutz USFWS agreed
with me. An oiled finger rubbed on a
wet Rock produces sheening. Fox foraging on
beach. Land 2:00 pm.

6/15/90
Jeff Burnhart

①B

State of Alaska
Department of Fish and Game
Habitat Division

Page 1 of 1

Field Inspection Report

Date 6/15/90 Time 1240 hours

Location: (Logging unit/Road/Waterbody) K0302 - IBO04 adjacent to K03-02
IB005 Anadromous Fish Stream 253-31-10020 Grassy Lagoon Stream,
Afegnak Island

Operator/Contractor: Exxon Corporation, EVOS

Individuals present at time of inspection:

<u>Name</u>	<u>Representing</u>
<u>Terry Ellsworth</u>	<u>ADEC</u>
<u>John Hardister/Dtto Flosschutz</u>	<u>USFWS</u>
<u>Commander Archie Smith</u>	<u>USCG</u>
<u>Stennie Meadows</u>	<u>NOAA</u>

Activity/Situation Observed: This oiled beach is the ISCC WIMP site #K-05 in
Izhut Bay. The Tar mat was removed by manual methods on June 5, 1990 by the crew
of the m/v Yukon River. Oil now exists on the beach in the form of oiled sand/
gravel in the interstitial areas between/among the cobbles/boulders as well as
sticky mousse patties with incorporated gravel.
Since the summer of 1989 this Tar mat has persisted with very little, if any, dissipation.
In my opinion, the oil remaining on the beach after the Tar mat removal will not
dissipate at a rapid rate.

Pertinent Statutes/Regulations: _____

Recommended/Required Action (Specify): The oiled area is in a segment adjacent
to an anadromous fish stream and represents an important rearing area for pink
salmon fry. It is also a herring spawning area. The work order recommends
manual pickup only. The protocol for Tar mat removal is: manual pickup followed
by raking and bioremediation (Custoblend) application. The manual pickup has
been completed. The remaining oil and oiled sediments should be broken
apart and Custoblend applied.

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

ACE 6725775

Company Representative/Title

ANADROMOUS FISH STREAM EVALUATION ADDENDUM

CONSTRAINTS FOR STREAM NO. 251-31-10020

SEGMENT K03-02-IB-005 SUBDIVISION A

WORK WINDOW	
Manual Pickup	OPEN

ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

1A,1B Salmon Stream

No constraint to manual pickup.

5R Seabird Colony

No constraint to manual pickup to In Subdivision, however, USFWS map indicates seabird colony in adjacent segments may restrict access to work site. Follow established USFWS transit route through seabird colony buffer zone as described on attached map.

AFS
252-31-10020

OTHER ECOLOGICAL CONSIDERATIONS

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

SEE SUBDIVISION CONSTRAINT ADDENDUM K03-02-IB-005A
FOR ADDITIONAL CONSTRAINT INFORMATION.

FOSC

D. J. Phillips

Date

6-16-90

Prepared by

J. P. Phillips

Date

6/15/90

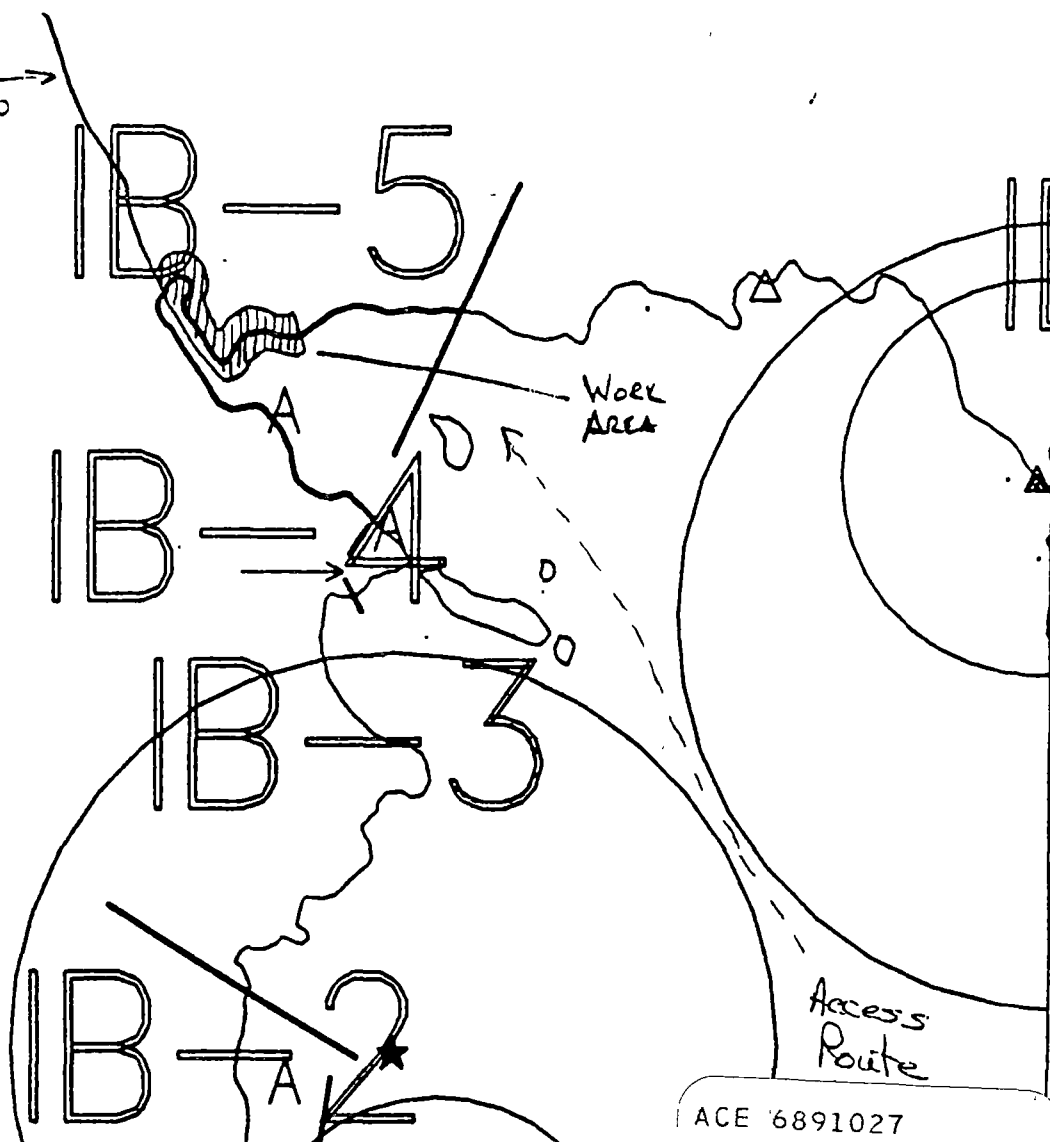
ACE 6891026 +5

IB-5 site

1. Access route approved.

Mike Luke

STREAM #
252-31-10020



TREATMENT

ACE 6891027



Exxon Company, USA

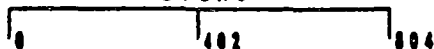
Map Key: K00-IB-5

June 10, 1990



ECOLOGY MAP
SEGMENT K3-2 IB-5
SUBDIVISION --- (--- of ---)

METERS



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

1 inch = 1320 feet

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/K03-02-IB-005 STREAM NO: 251-310-10020 DATE 5/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

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

See attached Ecological Constraint sheet for specific constraints and contacts.

SUBDIVISION ECOLOGICAL CONSTRAINTS:

8AA Sensitive estuary.
No ecological constraints re: intertidal biota.
Ecological constraints to be revised if Inipol is recommended.

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.)). or

SHPO SIGNATURE: Rachel Jane Oden DATE: 6/01/90

Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

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

COMMENTS: SEE CONSTRAINTS ADDENDUM DATED 6/15/90 RP

TAG COMMENTS: MANUAL PICKUP OF TARBALLS + PATCHES AS INDICATED
ON SKETCH

TAG APPROVAL DATE: 5/24/90.

ADEC ART WEINER Art Weiner

EXXON ANNI TSC Ann TSC

NOAA BILL WESCOTT Bill Wescott

USCG M. J. HALL, III M. J. Hall, III

FOSC: A. Zampieri DATE: 6/4/90

ACE 6891028-48/FF

ANADROMOUS FISH STREAM EVALUATION ADDENDUM

CONSTRAINTS FOR STREAM NO. 251-31-10020

SEGMENT K03-02-IB-005 SUBDIVISION A

WORK WINDOW

Manual Pickup

OPEN

ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

APPLICABLE ECOLOGICAL TIME CONSTRAINTS

1A,1B Salmon Stream

No constraint to manual pickup.

5R Seabird Colony

No constraint to manual pickup to in Subdivision, however, USFWS map indicates seabird colony in adjacent segments may restrict access to work site. Follow established USFWS transit route through seabird colony buffer zone as described on attached map.

AFS
252-31-10020

OTHER ECOLOGICAL CONSIDERATIONS

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

SEE SUBDIVISION CONSTRAINT ADDENDUM K03-02-IB-005A
FOR ADDITIONAL CONSTRAINT INFORMATION.

FOSC

D. J. Phillips

Date

6-16-90

Prepared by

J. P. Phillips

Date

6/15/90

ACE 6890958 + 5

ANADROMOUS FISH STREAM EVALUATION

SEGMENT ST/K03-02-IB-005 STREAM NO: 251-310-10020 DATE 5/1/90

SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:

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

See attached Ecological Constraint sheet for specific constraints and contacts.

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Ecological constraints to be revised if Inipol is recommended.

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SHPO SIGNATURE: Rachel Ann Ode DATE: 6/01/90

Subsurface Oil Observed: Yes _____ No X Maximum Depth _____

RECOMMENDATIONS:

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

COMMENTS: SEE CONSTRAINTS ADDENDUM DATED 6/15/90 RFP

TAG COMMENTS: MANUAL PICKUP OF TARBALLS + PATCHES AS INDICATED ON SKETCH

TAG APPROVAL DATE: 5/24/90.

ADEC ART WEINER Art Weiner

EXXON Ann Tse Ann Tse

NOAA Barbara Barbara

USCG M. J. HALL M. J. HALL

FOSC: R. Zandli DATE: 6/4/90

ACE 6890960 -9

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: Ray Morris
ADEC Anchorage

DATE: 8/24/90

No. Pages: 3
(including this page)

FROM: JEFF BARNHART
ADF&G Kodiak FAX 486-5044
Phone 486-5033

MESSAGE:

Ray,

Has any action been taken on this?

As you can see the ADEC TAG Checklist
indicates no comment pertaining to Bio, from
ADF&G. This is in contradiction to Mr. Bill
Stillings comments.

J

ACE 6725760TS

WORK PLAN MODIFICATION RECOMMENDATION

+

SEGMENT: K03-02 IBCC4 SUBDIVISION:

DATE: 7/26/90

MODIFICATION

1. REASON FOR MODIFICATION: The tar mat was removed by manual methods on June 5, 1990. Oil now exists on the beach in the form of oiled sand/gravel in the interstitial areas between/among the cobble/boulder as well as mounds with incorporated gravel. The oiled area is in a segment adjacent to an anadromous fish stream (258-31-1002C) and represents an important rearing area for pink salmon fry. It is also a herring spawning area.

The work order recommended manual pickup only. Standard protocol for tar mat removal is: manual pickup followed by raking and bio remediation. Manual pickup has been completed.

2. SUGGESTED ADJUSTMENT TO WORK PLAN:

The remaining oil and oiled sediments from the tar mat removal should be broken apart ^{Remnants removed} and custoblent applied.

* SEE EG COMMENTS BELOW.

Emson - disagrees that remaining oil justifies retreatment. Bio was not allowed at the time of initial treatment per ADIC

3. TIMING ISSUES: Request TIG assessment or no treatment

* USE 6 - PRIORITY FOR REASSESSMENT AND WHEN SUGGESTED
POSSIBLE RETREATMENT DURING
ASAP. (SSC concern).

USCG

ADEC

LAND MANAGER

EXXON:

ADF&G:

ACE 6725761

T- K3-02-IBCC4 IS INCORPORATED IN SEGMENT/2001.5
ASSESSMENT - 1 - FOR ASAP PER EXXON.

MAR 27 3 14 AM '90

1006:46 1006:46

ADEC TAG CHECKLIST

Segment # 0302 KEB-IB-04Subdivision -Date rec'd Apr 8Date due Apr 11

Compared with Fall Beachwalk:

Oil in same locations:

Drastic change in degree of oiling:

Change in penetration:

yes ☒ no ☐yes ☒ no ☐yes ☐ no ☒yes ☐ no ☒Compared by John K. Robinson

Assess treatment recommendations:

Do all SSAT team members agree with recommendation:

yes ☒ no ☐

State agency briefing:

ADEC TAG Representative John K. Robinson date 4-10-90Agree with Exxon recommendation: yes ☒ no ☐

ADNR

Representative John K. Robinson date 4/10/90Agree with Exxon recommendation: yes ☒ no ☐

ADF&G

Representative John K. Robinson date 4/10/90Agree with Exxon recommendation: yes ☒ no ☐

Local Response

Representative N/A LAP date 4/10/90Agree with Exxon recommendation: yes ☐ no ☐

Field Office

Representative Kodiak Homer Seward date 4-10-90Agree with Exxon recommendation: yes ☒ no ☐Contacted by John K. Robinson

Please write any comments on segment cover sheet (next page).

STAG Review meeting

STAG Recommendation:

date 4-10-90John K. RobinsonSignature John K. Robinson

4/4/90

ACE 6725762 - S

STATE OF ALASKA

DEPARTMENT OF FISH AND GAME

STEVE COWPER, GOVERNOR

Rapifax 349-1723

313 RASPBERRY ROAD
ANCHORAGE, ALASKA 99518-1599
PHONE: (907) 344-0841

RAPIFAX TRANSMITTAL SHEET

TO: Ken Middleton
Habitat AnchDATE: 5/7/90No. Pages: 10
(including this page)FROM: E. Barnhart
Habitat KodiakMESSAGE: Grassy Lagoon Stream, Izhut Bay, Afognak Island
Stream # 252-^{3/}~~29~~-10020
Segment IB005ALASKA DEPT. OF
FISH & GAME

MAY 07 1990

REGION II
HABITAT DIVISION

Dup

ACE 6891016+S

2/10

OPERATIONS FIELD NOTES

See Back for Instructions

SEGMENT ID ANAD IB-005
 STREAM ID # 252-30-10020
 ANNOTATED MAP INCLUDED Y (M)

DATE 5-1-90
 NAME GARCIA
 TEAM # 15

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

SUBSURFACE OIL - NONE

Other (Describe)?

TARMATS	Quantities in Meters			Treatment Rec			# of Bags	Mandays Required	
	Length	Width	Thick(cm)	None	Breakup	Remove		Breakup	Remove
Area #1									
Area #2									
Area #3									
Area #4									
Sporadic Mats PATCHES	REFER TO ATTACHED MAP					✓	15		5

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

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

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

GENERAL

Snow covering 0 % of the Supratidal Zone?Wave Exposure H/M/LAccess Limitations: NONESnare Boom/Pom Poms Recommended? NOWould the production Craft have to be relocated to complete work on this subdivision? Y (M) # of Times —

COMMENTS:

RECOMMEND MANUAL REMOVAL OF SPORADIC TARMATS/TAR BALLS AS NOTED ON THE ATTACHED MAP. NO OTHER TREATMENT NECESSARY. TOTAL MANDAYS REQUIRED FOR THIS STREAM IS 5.



4/18

FIELD SHORELINE COMMENT SHEET

SEGMENT ST IB 005 SUBDIVISION: _____DATE 5/1/90USCGNAME CWO MC NATION SIGNATURE [Signature]☐ NO TREATMENT RECOMMENDED
COMMENTS☒ TREATMENT SUGGESTED

1. MANUAL CLEAN-UP: REMOVE TAR PATTIES
(per map)

~~ADFG~~~~ADEC~~NAME JEFFREY BARNHART SIGNATURE [Signature]☐ NO TREATMENT RECOMMENDED
COMMENTS☒ TREATMENT SUGGESTED

Type A manual cleanup of patties / Tar balls

LAND MANAGER

NAME _____ SIGNATURE _____

☐ NO TREATMENT RECOMMENDED
COMMENTS☐ TREATMENT SUGGESTED

ACE 6891018



5/10

ADFG MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS SS OS TS AVS SCHA MMS PTA2 REGION: PWS KP, CI KJAPMETHOD: Aerial Ground Boat3 DATE: 5/1/9015 HIGH TIDE TIMES: 0731 121 TEAM RECORDER: JEFFREY BARNHART4 START TIME: 124516 HIGH TIDE HTS: 8.2 122 OBSERVERS: Gus Garcia, William Reed5 STOP TIME: 135017 LOW TIDE TIMES: 1440 1 1500 223 AGENCY: ADFG, Exxon, WWC, WWC, W6 SEGMENT #: IB 00518 LOW TIDE HTS: 0.2 124 PHOTOS TAKEN: Y (N)

7 STATION #:

19 TIDE HT AT SURVEY:

Roll #: Frames:

8 K-UNIT: K03-02

20 USCG QUAD:

25 VIDEO TAKEN: Y (N) TAPES:9 STAT AREA: 252-3011 LONG: 152° 19' 33"

Start: End:

10 LAT: 58° 14' 54"11 LONG: 152° 19' 33"26 SAMPLES TAKEN Y (N) Number12 SOURCE: Map Loren Anad Catalog

Oil

13 LOCATION: N.W. Izhut Bay, Atognak Island

Sediment

14 DESCRIPTION:

Biological

EXTENT OF OIL

Water

	SHORELINE				STREAM			
	L	M	H	S	L	M	H	S
27 SURFACE COVERAGE	400	1	400	5	0	0	0	0

35 CATALOGED ANAD. FISH STREAM? Y N

	SHORELINE				STREAM			
	L	M	H	S	L	M	H	S
28 SURFACE THICKNESS	1-2cm							
29 PENETRATION	surface				0	0	0	0

37 CATALOG #: 252-30-1002038 STREAM NAME: Grassy Lagoon

30 OVERALL OIL IMPACT: N VL L M H

39 OIL IN STREAM BED? Y (N)31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain40 OIL ON STREAM BANKS? (Y) N32 OILED DEBRIS? Y (N)41 OIL ON BEACH ADJACENT TO MOUTH? (N)
(within 50 meters)

42 OIL WITHIN 1 MILE OF STREAM? Y N

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

Where:

43 ANADROMOUS FISH PRESENT? Y (N)

34 WAVE EXPOSURE: High Moderate Low

44 ANADROMOUS FISH OBSERVATION

35 SUBSTRATE TYPE: Bedrock 10 Boulder Cobble 70

Species Aerial Ground

Gravel 20 Sand Mud/silt

COMMENTS: Tar balls and Tar patties (surface) 1 meter wide band located 1-3 meters from high tide line in Lagoon. Rearing area for salmon fry, waterfowl area. Easy Type A cleanup recommended.

Jeff Barnhart

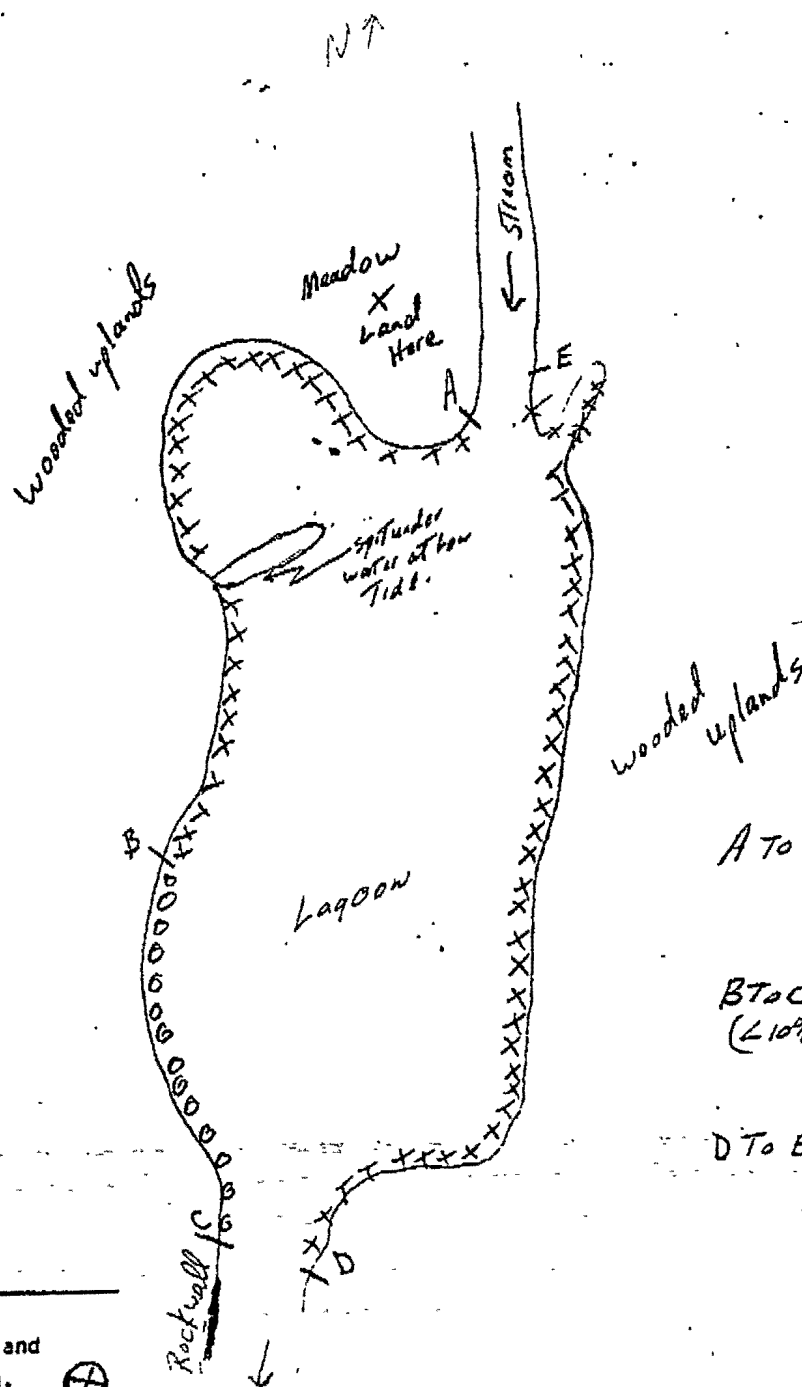
I agree with recommendation - Michael H. Finner



FRAME(S)

DESCRIPTION

48 OIL DISTRIBUTION DIAGRAM



- A to B - Sporadic ^{moussle} Tar patties / Tar.
Located approx 1-3 meters
from high tide mark in lagoon
1 meter band.
- B to C - Splashes → Tar patties / Ta.
(^{L10%}) Located approx 1-3 meters fro.
high tide mark in lagoon
1 meter band
- D to E - Sporadic - ^{moussle} Tar patties
Tar balls Located approx 1-3
meters from high tide mark in
1 meter band (approx)

= Sample taken
= Photo frame # and
shot direction.



ACE 6891020

MAY 07 '90 14:56 DEPTAAAAA

SHORELINE OILING SUMMARY

(ADD.)

P. 6/10

6/18

REVISION

OG WILLIAM LEO USCG McMAHON SEGMENT ST/ 14005
 BIO MICHAEL FAWCETT LAND REP 5 STRAM 252-35-10201 OF
 EXXON GUS GARCIA ADFG MICHAEL JEFF BLONHARDT TIME 12:35 to 13:35
 TEAM NO. 15 TIDE LEVEL +10.0 DATE 1 MAY 1990
 EST. SUBDIVISION LENGTH: 600 m ☐ Sun ☒ Clouds ☐ Fog ☒ Rain ☐ Snow
 UPLANDS DESCRIPTION: ☒ Grass ☒ Forest ☐ Rock
 SURVEYED FROM: ☒ Foot ☐ Boat ☐ Helo
 SURFACE SEDIMENTS: R ☐ B ☐ C 70 % P 60 % G 20 % S ☐ M ☐ V
 SLOPE: Long 30 % Hang 70 % Vert ☐ WAVE EXPOSURE: ☒ Low ☐ Med ☐ H
 OIL CATEGORY LENGTH: W ☐ m M ☐ m N 570 m VL ☐ m NO 30

SURFACE OIL

CHARACTER	DISTRIBUTION				OIL / FILM COLOR								IMPACTED ZONES			
	C	R	P	B	BR	OR	OL	OF	NO	IC	UC	UC	SU	U	M	U
ASPHALT PAVEMENT																
POOLED																
COVER																
COAT																
STAIN																
MOUSSE																
PATTIES			X										X			
TARBALLS			X										X			
FILM																
NO OIL																

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

OILED DEBRIS	AMOUNT		
	SM	MD	LG
Logs			
Vegetation			
Trash			
Debris			

Did You Go
 DEBRIS
☐ YES ☒ NO
 TYPE
 #BAGS

Photographs:

Roll No. A3-15-7Frames 29-33

SUBSURFACE OIL

PIT NO.	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OILED INTERVAL (cm)	BELOW		OIL / FILM COLOR								PIT ZONE				A N A	SHEEN (Y/N)	V	SURFA SUBSUR SEDIME
		OP	OR	OL	OF	NO		UC	UC	BR	OR	OL	OF	NO	IC	UC	UC	SU	U	M	U				

COMMENTS

REVIEWED DATE

ACE 6891021

ACE 6891022

SKETCH MAP

OG WILLIAM KEID

SEGMENT ST/ JB 005

STREAM 252-30-10020

DATE 1 MAY 90

CHECKLIST

- ___ N Arrow
- ___ Approx. Scale
- ___ Seg/Sub Endry
- ___ Ch Dist.
- ___ Width
- ___ Length
- ___ % Cover
- ___ Substrate Character
- ___ Est HW/L/W/L
- ___ SSL
- ___ Profile Location(s)
- ___ Profile(s)
- ___ Plt Location(s)
- ___ Photo Location(s)

LEGEND

1.

P11 - No Subsurface Off

2 ▲

PII - Subsurface Oil

CT/C

Continuous Distribution

CT/B

Broken Distribution

CT/P

Patchy Distribution

CT/S

Splashed Distribution

Dried Vegetation

**Photo location, direction,
and number**

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

RETRACON-022478

8/10

segment I8005
stream 252-30-10020
Ecological Summary

1 May 90
Michael Fawcett

This moderately large stream enters the northwest end of a mud-bottom lagoon, that drains to the east. The lagoon is roughly oval, 150m by 250m. The bottom of the lagoon has infaunal clams, etc., and a large stand of eelgrass. The banks of the lagoon are composed of slate boulders/cobble/pebbles/gravel. Barnacles and Littorines are moderately dense through out the MTZ, mussels sparse except for a dense mussel bed in the high-current area near the lagoon mouth. Limpets (Collisella persana) are abundant on boulders and bedrock in the VTZ. Fucus and Rhodomele are abundant algae in MTZ. One stranded pink salmon fry was found on the stream bank. Oil consists of light sporadic tar balls and patties in MTZ and VTZ around the lagoon. Manual removal is recommended. No ecological constraint: re: intertidal biota.

M. Fawcett



9/18

SSAT DATA ENTRY FORM

PAGE 1 OF 2

GENERAL DATA

252-30-
SEG ID: IB005 SUBDIV: 10020 TEAM: AS-15 SURVEY DATE: 5/1/90
PAVEMENT: CHAR — AREA 0 THICKNESS 0 TARBALLS 0
OILED: LGS — VEG — TRH — DBR — WAVE EXP: LW X MD — HG —
FAX RCVD: — DT: — AGENCY DISAGREE: —
EST SUBDIV LGTH: 600 OIL CATEGORY: W 0 M 0 N 570 VL 0 NO 30 U 0

SURFACE DATA

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

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

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

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

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

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

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

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

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



ACE 6891024

1918

SSAT DATA ENTRY FORM

SUBSURFACE DATA

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SEGMENT ID: IB005 SUBDIV: 252-30-10020

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

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

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

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

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

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

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

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

PROBLEMS:

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