

251-70-10010 NOT CAT.
GIN BAY, SHUYAK ISLAND
S2-2

251-70-701

NO OIL
OBSERVED

ACE 1852117



89 Stream Survey

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

SEGMENT NUMBER: LOCAL STREAM #:

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

ASC NUMBER: 251-70-10010
SURVEY TYPE: SS
METHOD:
DATE: 8/31/89
START TIME: 1300
STOP TIME: 1420

TEAM RECORDER: JEFFREY P. Barnhart
OBSERVERS: Randy Talvi
AGENCY(IES): ADF+G

PHOTOS TAKEN? Y
Roll #: 89-RGT-001K Frames: 5
VIDEO TAKEN? N Tape Number:
Counter Start:

SAMPLES TAKEN? Y

SAMPLE I.D. NUMBERS: 1. S2-2-1H 2. S2-2-2H 3. S2-2-1mp
4. S2-2-2mp 5. S2-2-1P 6. S2-2-2P

OILING DATA

	LENGTH	WIDTH	M2	%	THICK	FEN	OIL TYPE
SITE 1	<u>350m</u>	<u>2m</u>	<u>700</u>	<u>Ø</u>			<u>no oil observed</u>
SITE 2							
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT: no oil observed

OIL IN STREAM CHANNEL? N

OIL ON BEACH WITHIN 50M OF STREAM MOUTH? N

SUBSTRATE

Bedrock
Boulder
Cobble
Pebble

N/A

Granule
Sand
Silt
Veget.

SPECIES					
COUNT					

COMMENTS: Unidentified salmon spp. jumping within 350 yards of stream mouth. observed no salmon spp. at stream mouth.

Site no. S2-2, Shangin Bay, Shuyak Island

2

Volume of samples Taken:

Approx 250 ml each

Date and Time of collection:

09/31/89 1325

List of sample identification numbers:

S2-2-1 H S2-2-1 mp

S2-2-2 H S2-2-2 mp

S2-2-1 P

S2-2-1 P

ACE 1852118+FF

3

Description of sampling point and sampling methodology.

Sampling site was 125 yards approx. from stream mouth on southern shore of lagoon.

Two identical samples were taken of 7 subsamples each at

The High Tide mark (H), present Tide mark (P), and the mid point between the H and P (mp). Samples were placed into the bottles using a sterile Tongue blade. ~~and~~ HB. Rubber disposable gloves were worn.

ACE 1852119

4

References (maps, photographs, video):

Aerial photo K1-7

Kodiak Area Salmon District Map.

Field observations: No oil observed in the area. We surveyed the island in Shangin Bay adjacent to stream as well as approx 350 yards from entrance of lagoon into Shangin Bay up to stream.

Jeff Barnhart
8/31/89

ACE 1852120

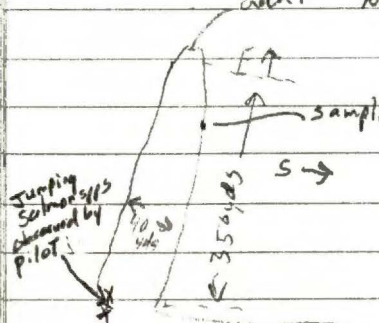
5

ACE 1852121

Depart site 52-1 at 1pm Land Stream 10010 Shangin Bay (km stream #701) sample taken 1325

in lagoon approx 125 yards from stream mouth.

with. No fish observed.



No oil observed on island or

on the Approx 250 yard of shore(s) we walked from

to pass to the sampling point photo Roll # 19SA Frame 5

Site 52-2

Island Landed Here, observed no oil on island Shangin Pass

Lat. $58^{\circ} 35' 30''$ N

Long $152^{\circ} 25' 30''$ W

Stop Stream 10020 Site 52-3 stop 8:30pm

Flying to this stream from last site 52-2 Randy + I both

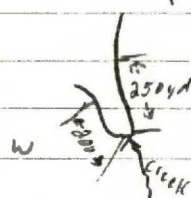
observed live fish (apparently salmon) and carcasses at

Stream #704 which is not a cataloged stream. Fish were in the soft water where stream empties in to Shangin Bay

Roll # Still photo: 19SA Frame # 6

Site 52-3

Stream # 251-70 - 10020



Due to topography & tide constraints we straggled from stream mouth to a point 250 yards up the E shore of the bay and from the stream to

a point 200 yards out the Bay on the west shore observed no oil. Salmon eggs jumping in Bay at creek mouth & out in the Bay itself. The salmon eggs appeared to be viable.

Lat. $58^{\circ} 33' 30''$ N

Long $152^{\circ} 27' 00''$ W

photo K1-7

beach sediment type - gravel

Sediment samples taken

3:05 pm

HT sample JPB

MP, Randy, P

JPB

52-2

"Rite in the Rain"
ALL-WEATHER WRITING PAPER ®



ALL-WEATHER

LEVEL

Notebook No. 311-M

"Rite in the Rain" - A unique All-Weather Writing Paper created to shed water and enhance the written image. It is widely used throughout the world for recording critical field data in all kinds of weather.

Available in a variety of standard and custom printed case-bound field books, loose leaf, spiral and stapled notebooks, multi-copy sets and computer papers.

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J. L. DARLING CORPORATION
TACOMA, WA 98421-3696 USA

Alaska Dept of Fish & Game Habitat Div
Kodiak, Alaska 986-5033

Kodiak Archipelago Anadromous
Fish Habitat Assessment

ACE 1852124

Anadromous Fish Habitat Assessment

Exxon Valdez oil spill

Date: 08/31/89

Site Number: 52-2

Location of sampling point:

Latitude - 58° 35' 30" N

Longitude - 152° 25' 30" W

Other comments - Lat/Long Taken from pilot's Aviation chart.

Type of sample: oil or sediment (circle)

How many samples Taken?

6 samples Taken

ACE 1852125

FISH HABITAT ASSESSMENT FORM

REGION: PWS KP, CI (K), AP OBSERVER(S) JEFF BARNHART
RANDY TALVISITE NO. S2-2 AERIAL PHOTO NO. K1-7 CAT NO. 251-70-10010STREAM NAME _____ N LAT *58° 35' 30" W LONG *152° 25' 30"DATE 08/31/89 TIME 1325 TIDE: Low slack (Flood) High slack EbbCATALOGED ANADROMOUS STREAM? (Y) N ANAD. FISH FOUND? (Y) NOIL FOUND IN STREAM? Y (N) OIL FOUND NEAR STREAM (1 MI.)? Y (N)S2-2-1H S2-2-1MP S2-2-1POIL SAMPLES TAKEN? (Y) N ID NOS. S2-2-2H S2-2-1MP S2-2-2P
S2-2-2mp (JTB)35 mm PICTURES TAKEN? Y N ROLL NO(S). 195A

EXPOSURE NO. DESCRIPTION

5 view of site S2-2 mouth of AFS
251-70-10010VIDEO FOOTAGE TAKEN? Y (N) CASSETTE NO(S). _____

DESCRIPTION: _____

* Lat/Long Taken from pilots Aviation chart
* Salmon eggs jumping 350 yards from stream mouth

ACE 1852126

ANADROMOUS FISH OBSERVATIONS
PINK CHUM RED KING COHO DOLLY

	PINK	CHUM	RED	KING	COHO	DOLLY
Aerial						
Ground						

COMMENTS: observed unidentified salmon eggs jumping within
350 yards of stream mouth. Observed no salmon at stream
mouth.

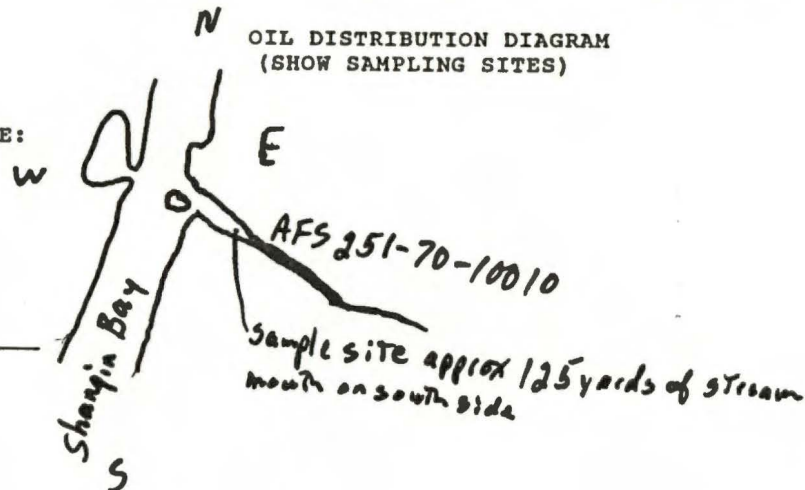
OIL OBSERVATIONS

EXTENT OF OIL:

	WITHIN STREAM	OUTSIDE STREAM
SURFACE COVERAGE	<u>None observed</u>	<u>None observed</u>
SURFACE THICKNESS	<u>None observed</u>	<u>None observed</u>
PENETRATION	<u>None observed</u>	<u>None observed</u>

PREDOMINANT
SUBSTRATE TYPE:

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

OIL DISTRIBUTION DIAGRAM
(SHOW SAMPLING SITES)COMMENTS: The AFS catalog indicates coho salmon only use this
system. As the coho are just beginning to move into the bays,
this may be why we didn't see fish at the stream/mouth.

ACE 1852127 -1L/FF/HF



89 Stream Survey

ASC NUMBER:	SEGMENT NUMBER:	YR CATALOGED:
LOCATION:		
STREAM NAME:		LATITUDE:
KODIAK K-UNIT:	LOCAL STREAM #:	LONGITUDE:
USGS QUADRANGLE:		LEGAL:
SHORELINE TYPE: Beach		WAVE EXPOSURE: L

ASC NUMBER: 251-70-10010
SURVEY TYPE: SS
METHOD:
DATE: 8/31/89
START TIME: 1300
STOP TIME: 1420

TEAM RECORDER: JEFFREY P. Barnhart
OBSERVERS: Randy Talvi

AGENCY(IES): ADF+6

PHOTOS TAKEN? Y
Roll #: 89-RGT-001K Frames: 5
VIDEO TAKEN? N Tape Number:
Counter Start:

SAMPLES TAKEN? Y

SAMPLE I.D. NUMBERS: 1. S2-2-1H 2. S2-2-2H 3. S2-2-1mp
4. S2-2-2mp 5. S2-2-1P 6. S2-2-2P

OILING DATA

	LENGTH	WIDTH	M2	%	THICK	FEN	OIL TYPE
SITE 1	350m	2m	700	Ø			NO oil observed
SITE 2							
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT: No oil observed

OIL IN STREAM CHANNEL? N

SUBSTRATE

Bedrock	Granule
Boulder	Sand
Cobble	Silt
Pebble	Veget.

OIL ON BEACH WITHIN 50M OF STREAM MOUTH? N

SPECIES					
COUNT					

COMMENTS: Unidentified salmon spp. jumping within 350 yards of stream mouth. observed no salmon spp. at stream mouth.

Site no. S2-2, Shangin Bay, Shuyak Island

Shanqin Bay, Shuyak Island

FISH HABITAT ASSESSMENT FORM

REGION: PWS KP, CI (K, AP) OBSERVER(S) JEFF BARNHART
RANDY TALVI

SITE NO. S2-2 AERIAL PHOTO NO. K1-7 CAT NO. 251-70-10010

STREAM NAME _____ N LAT * 58° 35' 30" W LONG * 152° 25' 30"

DATE 08/31/89 TIME 1325 TIDE: Low slack Flood High slack Ebb

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

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

Sediment
OIL SAMPLES TAKEN? (Y) N ID NOS. S2-2-1H S2-2-1MP S2-2-1P
S2-2-2H S2-2-2MP S2-2-2P

Converted to 89-RGT-001-K

35 mm PICTURES TAKEN? Y N

ROLL NO(S) 195A JFB

EXPOSURE NO.

DESCRIPTION

5 view of site S2-2 mouth of AFS
251-70-10010

VIDEO FOOTAGE TAKEN? Y (N) CASSETTE NO(S) _____

DESCRIPTION: _____

* Lat/Long Taken from pilots Aviation chart
+ x Salmon eggs jumping 350 yards from stream mouth

	ANADROMOUS FISH OBSERVATIONS							
	PINK	CHUM	RED	KING	COHO	DOLLY		
Aerial								
Ground								

COMMENTS: observed unidentified salmon spp jumping within 350 yards of stream mouth. observed no salmon at stream mouth.

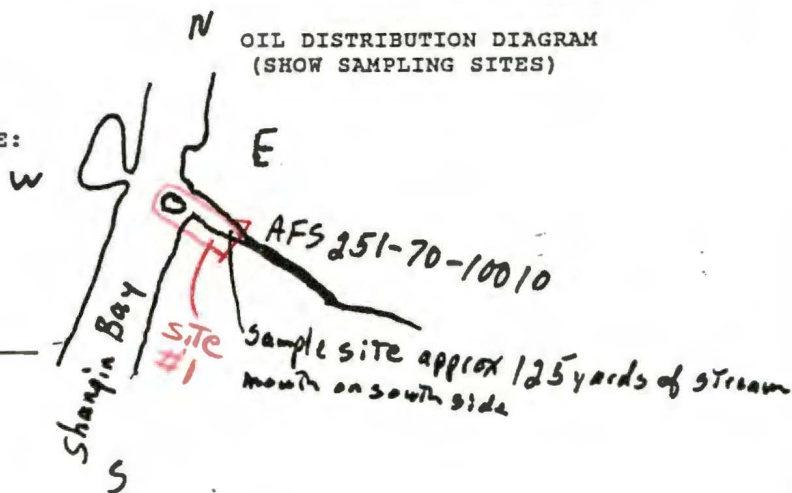
OIL OBSERVATIONS

EXTENT OF OIL:

	WITHIN STREAM	OUTSIDE STREAM
SURFACE COVERAGE	NONE observed	NONE observed
SURFACE THICKNESS	NONE observed	NONE observed
PENETRATION	NONE observed	NONE observed

PREDOMINANT SUBSTRATE TYPE:

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



COMMENTS: The AFS catalog indicates coho salmon only use this system. As the coho are just beginning to move into the bays, this may be why we didn't see fish at the stream mouth.

52-2

"Rite in the Rain"
ALL-WEATHER WRITING PAPER ®



ALL-WEATHER

LEVEL

Notebook No. 311-M

Alaska Dept of Fish & Game Habitat Div

Kodiak, Alaska 986-5033

Kodiak Archipelago Anadromous

Fish Habitat Assessment

1
Anadromous Fish Habitat Assessment

Exxon Valdez oil spill

Date: 08/31/89

Site number: 52-2

Location of sampling point:

Latitude - $58^{\circ} 35' 30''$ N

Longitude - $152^{\circ} 25' 30''$ W

Other comments - Lat/Long Taken
from pilots Aviation chart.

Type of sample: oil or sediment (circle one)

How many samples Taken?

6 samples Taken

2

Volume of samples Taken:

Approx 250 ml each

Date and Time of collection:

08/31/89 1325

List of sample identification numbers:

S2-2-1 H

S2-2-1 mp

S2-2-2 H

S2-2-2 mp

S2-2-1 P

S2-2-1 P

3

Description of sampling point and sampling methodology.

Sampling site was 125 yards approx. from stream mouth on southern shore of lagoon.

Two identical samples were taken of 7 subsamples each at

The High Tide mark (H), present Tide mark (P), and the mid point between the H and P (mp). Samples were placed into the bottles using a sterile Tongue blade. ~~and~~ 918. Rubber disposable gloves were worn.

4

References (maps, photographs, etc.):

Aerial photo K1-7

Kodiak Area Salmon District Map.

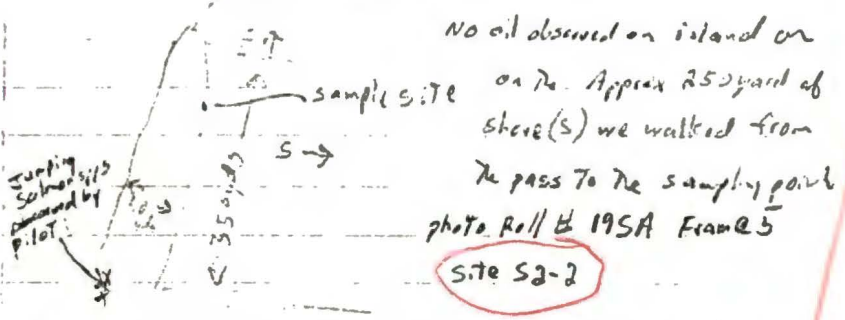
Field observations: No oil observed
in the area. We surveyed the
Island in Shagin Bay adjacent to stream
as well as approx 350 yards from entrance
of lagoon into Shagin Bay up to stream.

Jeff Barnhart
8/31/89

5

part site 52-1 at 1 pm Land Stream 10010 Shangin Bay (km stream #701) sample taken 1325

In lagoon approx. 135 yards from stream mouth. with no fish observed.



Swimming salmon eggs observed by pilot

No oil observed on island on sample site on the shore approx 250 yards of shore(s) we walked from the pass to the sampling point photo Roll # 19SA Frame 5 Site 52-2

Landed Here, observed no oil on island

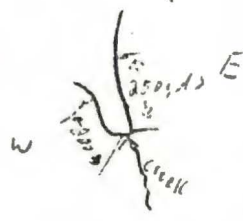
Lat. $58^{\circ} 35' 30''$ N
Long $158^{\circ} 25' 30''$ W

Step Stream 10020 site 52-3 stop 2:30pm
Flying to this stream from last site 52-2 Randy & I both observed live fish (appeared to be salmon) and carcasses at stream #704 which is not a cataloged stream. Fish were in the soft water where stream empties in the Shangin Bay

Roll # 19
Still photo: 19SA Frame # 6



Site 52-3
Stream # 251-70-10020



Due to topography at the stream mouth we surveyed from stream mouth to a point 250 yards up the E shore of the bay and from the stream to a point 200 yards out the Bay on the west shore observed no oil. Salmon eggs jumping in Bay at creek mouth & out in the Bay itself. The salmon eggs appeared to be rotting.

Lat. $58^{\circ} 33' 30''$ N
Long $158^{\circ} 27' 0''$ W
photo K1-7
beach sediment type gravel

Sediment samples taken
3:05pm
HT sample JPB
MP by Randy T.
P

JPB

ORIGINAL

SEGMENT INSPECTION RECORD

COPY

ADEC # K1-10

Shoreline Segment: SH-1

Shoreline Treatment Process(es) Completed for this Segment

Yards Signed Off

☐

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.

Exxon Comments

Signature

Date 8/27/89

Time 1040

Printed Name

Jim Wade

Existing Shoreline Condition As
Visually Determined by USCG

Surface Oil

Percent

Degree of Oiling

☐

Heavy

☐

Medium

☐

Light

☒

No oil observed

Very Light

100%

Subsurface Oil

☐

Yes

☒

No

Comment Below

Reassessment

☐

Yes - Necessary

☒

No - Not necessary unless re-oiled

ADEC Rep

Comments

Sand + gravel beach, well protected in Shagrin Bay. No Oil Observed.

Existing Shoreline Condition As
Visually Determined by ADEC

Surface Oil

Percent

Degree of Oiling

☐

Heavy

☐

Medium

☐

Light

☒

No Oil Observed

Very Light

100%

Subsurface Oil

☐

Yes

☒

No

Comment Below

Reassessment

☐

Yes - Necessary

☒

No - Not necessary unless re-oiled

Signature

Date 29 Aug 89

Time 1154

Printed Name JEANNE T. HEMPHILL

FOSC Rep

Demobilization approved/disapproved

Comments

No oil observed. No cleanup required.

Signature

Date 29 AUG 89

Time 1200

Printed Name

PAUL O. MASELLA

Copy: Exxon ADEC FOSC ISCC

Return All Signed Originals to Exxon

ACE 18521054/F/S/HF

ORIGINAL

TYPE A SHORELINE CLEANUP WORK ORDER

Date 8/27/89

Shoreline Segment SH-1

Location (see map)

Shangin Bay

ADEC No. K1-10

Shoreline assessment date 8/11/89

Recommended Cleanup Activities

No cleanup recommended due to the very light oiling conditions and unimpacted environment. Subject to FOSC reassessment at a later date.

Priority Considerations

Class 5-A

Limited access into bay by skiff during rough weather.

Ecological Constraints

None, since no cleanup is recommended.

Archaeological Constraints (from site survey)

If any archaeological or historical sites or artifacts are discovered during the clean up activity, they must remain undisturbed and the Exxon archaeologist Jim Haggarty contacted (486-5680) (take action prescribed in the "Guideline for Shoreline Cleanup" dated 4/21/89 as amended).

Submitted by:

Exxon

Date

8/22/89

Approved:

Federal On-Scene Coordinator Representative

Date

30 Aug 89

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 8/23/89

SHORELINE SEGMENT K1-10-SH-1

LOCATION: (see enclosed map) Shangin Bay

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 8/11/89

Recommended Cleanup Activity(ies):

-No cleanup recommended due to the very light oiling conditions and unimpacted environment. Subject to FOSC reassessment at a later date.

Priorities/Considerations: Class 5-A

-Limited access into bay by skiff during rough weather.

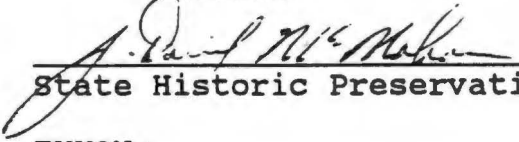
Ecological Constraints (from site survey):

-None, since no cleanup is recommended.

Archaeological Constraints (from site survey):

-If cleanup is conducted inspection by an archaeological monitor is required.

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


State Historic Preservation Officer *

Date: 8/24/89

EXXON: _____

Date: _____

FOSC: _____

Date: _____

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

A. General

C. Oil Summary

Comments:

SEE PAGE 2 FOR SUPPLEMENTAL INFORMATION

SUPPLEMENTAL SHORELINE OIL EVALUATION25. Oil Type

Fresh	_____	%
Mousse	_____	%
Weathered	50	%
Tar	50	%
	100	%

26. Total Oil Coverage

	Length (yd)	Width (yd)
Very Light:	1/4	1/4
Light:	_____	_____
Moderate:	_____	_____
Heavy:	_____	_____

27. Oil Distribution

pooled/continuous
coating/ splat
cracks / crevices
patties (>10cm diameter)
balls (< 10cm diameter)
asphalt pavement

					Thick			Burial
SP	H	M	M	>1in	Length (yd)	Width (yd)	Depth	
	X							
	X							

28. Preliminary Cleanup Est.

Total TYPE A: 0 yds.
Total TYPE B: 0 yds.
Total TYPE A/B: 0 yds.

29. Remobilization Potential: High/Medium/Low

DOCUMENTATION:

Map/Aerial photo marking segment boundaries See Attached

VTR: Y/N Tape Number (s) KOS-39

Photography: Y/N Roll Number (s) DINC-28

Additional Comments:

11 AUG

FRIDAY

1535 FLY OVER SHANGIN BAY

K01-10-SH-1

1547 α LD ROCKY HOLE (15 FT HIGH) w/ POCKET
BEACH - B/C IPI S

THE BALL W/ OILED (TAREY) C-WD DRIFT
(SP). V.L.T SPAT (HITE/SP) WEATHERED
MOUSSE. CAN EASILY SEE WEATHERED
MOUSSE IS DEGRADING & ACTUALLY ROCK
GRINDING BY WAVE ACTION IS ABRADING
THE OIL OFF ROCKS. GOOD SIGN
OIL IS INERT - NO MOBILITY

MUCH OF SHANGIN BAY NOT

1640 β MUD/PE3/B - LO ENERGY COVE
& MATEL - NO OBS OIL.1650 ρ SAME AS β - NO MUD TRAVEL
NO OBS OIL

11 AUG

FRIDAY

1740 ρ

HEAD OF BAY
SAME AS ρ BEACH COM

VERY L - SPAT - ACTUALLY MELTED MOUSSE
BOYS HITZ - VERY RARE - 2 DIMINISHES
AS ONE GOES AWAY FROM STREAMS
- NO CLEANUP RECOMMENDED

1821 ρ S/P BEACH - NO OBS OIL

END K01-10-SH-1

1832 LV FOR ADR

1904 - LO ADR

1930 - AR OFFICE

DINNER & GOOD NIGHT

ACE 1852111

12 AUG

SATURDAY

0730

OFFICE

WRITE UP K01-10-SH-1

LEVEL

ACE 1852110

ACE 1852112

ECOLOGICAL EVALUATION

LOCATION: Shangin Bay N. SHUYAK IS. SITE: _____ OBSERVER: D. McCormick
 LOCATION PREFIX: KI-6-SH- SEG. NO.: 1 LENGTH: 22200 (M)

DATE: 8/11/89 TIME (HMM): 1545 TIDE HT.: 7.0 ft (M)

OILED ZONE: Splash High Medium Low

SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud
Granules + Pebble

LIVE BIOTA

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

Dense on larger boulders

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

Dispersed dense clumps

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

Dense in patches

Littorina

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

Dense in patches

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

None observed

OTHER OBSERVATIONS: Black lichen, tan-cottages, deer tracks, salmon jumps

Quail, Calothrix + Enteromorpha on boulders, T. albidifrons, Helminthosporium
Endonectis, sculpins

CLEANUP PRECAUTIONS: None since no cleanup recommended

MAMMALS: Otters _____ Harbor Seals _____ Sea Lions _____ Whales None ²⁻³
 Other _____

BIRDS: ospreys, 2 bald eagles (1 nest see map)

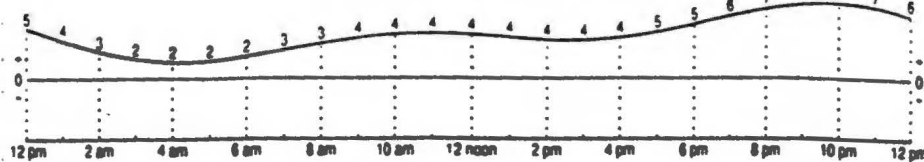
GENERAL OBSERVATIONS: Five stops were made along this segment to look for oil.

Some very light splatter was observed in the upper ITZ on beach #1.

At stop #4 a few mouse peltus were found in the upper ITZ but not enough to warrant cleanup.

Kodiak

Friday 11 August



Low Water
4:09 am / 1.6 ft

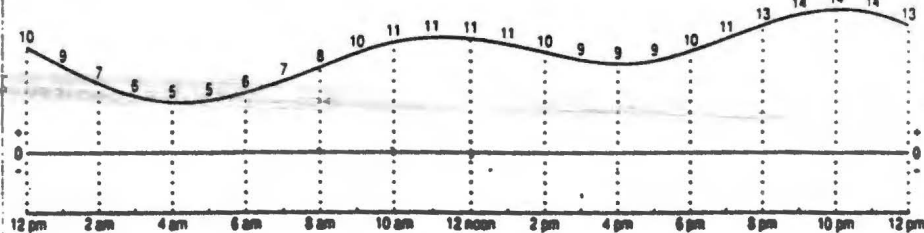
High Water
10:51 am / 4.4 ft

Low Water
2:39 pm / 3.7 ft

High Water
9:45 pm / 7.4 ft

Seldovia

Friday 11 August



Low Water
4:15 am / 4.9 ft

High Water

Low Water

High Water
10:08 pm / 14.2 ft

ADJUSTED TIDE
FOR SHADOWN BAY
August 11, 1989

11.4
- .8
9.6

8.2
- 2.2
6.0

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 8/11/89 Location AFOGNAK C-2/C-3 Site SECTION K-1/10

Location Prefix SH Segment # 1 Length 22200m

Survey Method:

Air ~90% (A - indicate on map) Boat - (A - indicate on map)

Ground ~10% (G - indicate on map)

Known cultural resources (AHRS #) AFO-83 Data Source AHRS

Oil conditions/beach visibility LIGHT; OCCASIONAL SPLASHES / VISIBILITY GOOD

Width of beach zone surveyed 0-20 m Tree fringe surveyed 0-10m

Cultural resources observed in beach zone (AHRS code) HSP MDN

Cultural resources observed in tree fringe (AHRS code) -

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

Shore Profile GENTLY SLOPING PEBBLE/LOBBLE BEACHES; SOME ROCKY HEADLANDS

Fresh Water Sources STREAMS

Sea Exposure ENTRANCE TO BAY EXPOSED TO NORTH; SHANGIN BAY PROTECTED INLAND

Access/Safety ACCESSIBLE BY AIR OR BOAT

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 # GLD-1 Frames 15, 16, 19-25

B/W Roll # Frames

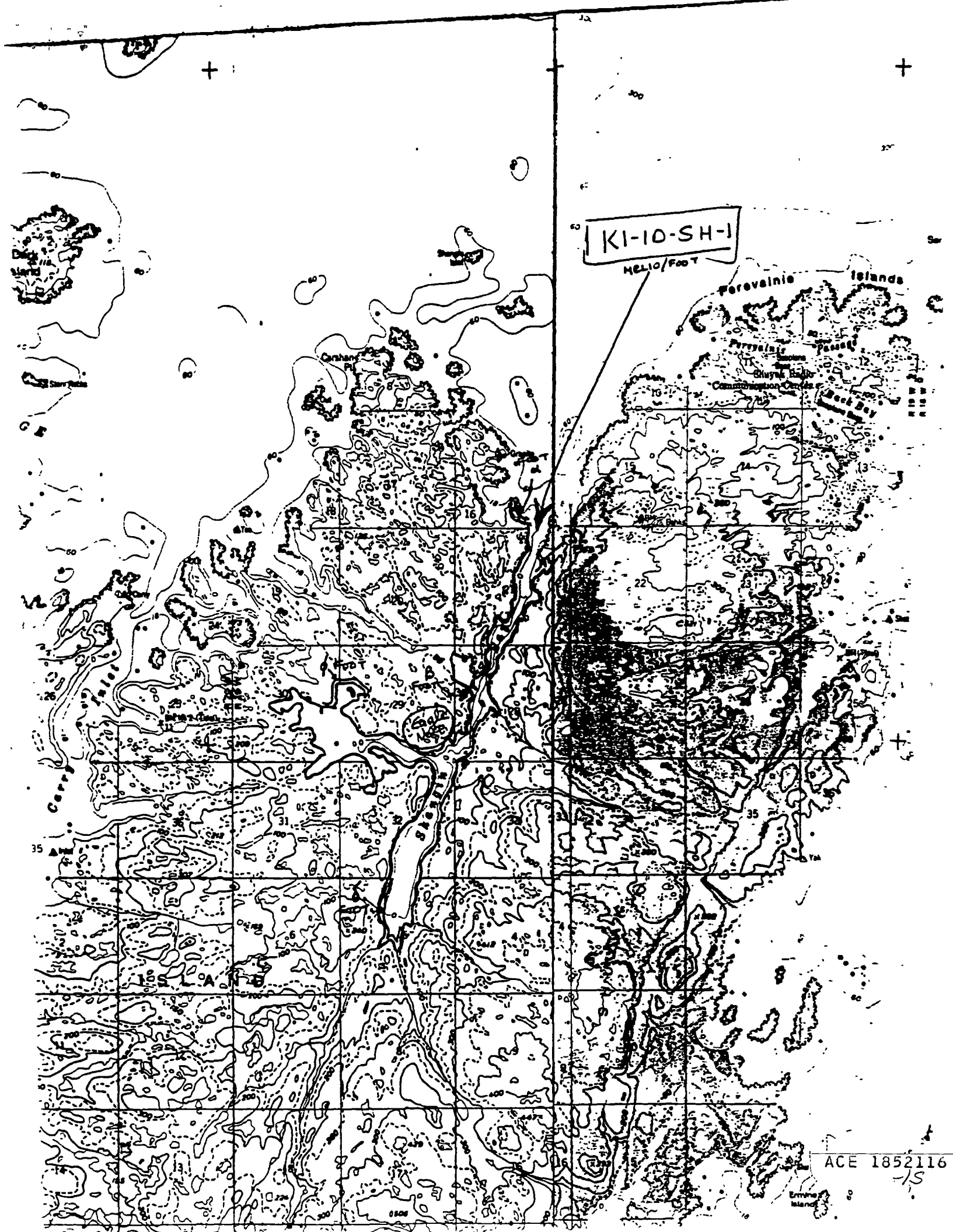
Observer(s) C. DONTA

Time survey started 15:30 Time survey ended 18:30

Cultural resource considerations/restraints:

STANDARD CONSTRAINTS; SITE NOT ERODING BADLY, CLEAR OF OILED AREAS

AND NOT DIRECTLY ON BEACH



KI-10-SH-1

HELIO/FOOT

Perovskia

Islands

Chuyak Bay

Commodore Point

Emme Island