

AFS 252-10-10010
TONKI BAY, AFOGNAK ISLAND
SITE AH-2

ACE 1369730



252-10-101



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: H

ASC NUMBER: 252-10-10010
 SURVEY TYPE: SS
 METHOD: F
 DATE: 9/2/89
 START TIME: N/A
 STOP TIME: 1104

TEAM RECORDER: R. Dunbar / J. Barnhart
 OBSERVERS: R. Talvi

AGENCY(IES): ADF&G

PHOTOS TAKEN? Y
 Roll #: 89-RGT-001K Frames: 15, 16, 17
 VIDEO TAKEN? Y Tape Number: HS008
 Counter Start: 1330

89JPB008K

SAMPLES TAKEN? Y
 SAMPLE I.D. NUMBERS: 1. A4-2-1
 4.

2. A4-2-2
 3.
 5.
 6.

OILING DATA

	LENGTH	WIDTH	M2	%	THICK	FEN	OIL TYPE
SITE 1	325m	8m	2600	1	1.27cm	.62cm	MS
SITE 2	172m	1m	172	1	1.27cm	10cm	MS
SITE 3	40m	2m	80	5	1.27cm	10cm	MS
SITE 4	150m+	2m	300	85	1.27cm	20cm	MS
SITE 5							

OVERALL OIL IMPACT: M

OIL IN STREAM CHANNEL? N
 SUBSTRATE

Bedrock	Granule
Boulder	Sand
Cobble x	Silt
Pebble x	Veget.

OIL ON BEACH WITHIN 50M OF STREAM MOUTH? Y

SPECIES	PS				
COUNT	1300				

COMMENTS: Site A4-2. Tonki Bay, Afognak Island.



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: H

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 METHOD: F
 DATE: 9/2/89
 START TIME:
 STOP TIME: 1104

TEAM RECORDER: R. Dunbar / J. Barnhart
 OBSERVERS: R. Talvi

AGENCY(IES): ADF+G

PHOTOS TAKEN? Y
 Roll #: 89-RGT-001K Frames: 15, 16, 17
 VIDEO TAKEN? Y Tape Number: H5008
 Counter Start: 1330

SAMPLES TAKEN? Y
 SAMPLE I.D. NUMBERS: 1. A4-2-1
 4.

2. A4-2-2 3.
 5. 6.

OILING DATA

	LENGTH	WIDTH	M2	%	THICK	FEN	OIL TYPE
SITE 1	325m	8m	2600	1	1.27cm	.62cm	MS
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SITE 3	40m	2m	80	5	1.27cm	10cm	MS
SITE 4	150m+	2m	300	85	1.27cm	20cm	MS
SITE 5							

OVERALL OIL IMPACT: M

OIL IN STREAM CHANNEL? N

SUBSTRATE

Bedrock	Granule
Boulder	Sand
Cobble x	Silt
Pebble x	Veget.

OIL ON BEACH WITHIN 50M OF STREAM MOUTH? Y

SPECIES	PS				
COUNT	1300				

COMMENTS: site A4-2. Tonki Bay, Afognak Island.

AFOGNAK IS. - TONKI BAY

FISH HABITAT ASSESSMENT FORM

REGION: PWS KP, CI ☒ AP OBSERVER(S) Randy Talvi
Jeff Barnhart
Roger Dunbar

SITE NO. A4-2 AERIAL PHOTO NO. K1-9 CAT NO. 252-10-10010

STREAM NAME — LAT 58° 12' 48" N LONG 152° 08' 00" W

DATE 9/2/89 TIME 1102 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. A4-2-1 & A4-2-2

Converted to 89-RGT-001-K

35 mm PICTURES TAKEN? ☐ Y ☐ N ROLL NO(S). 195A

EXPOSURE NO.

DESCRIPTION

<u>15</u>	<u>humpies in uncataloged stream/Drains into</u>
<u>15 RD.</u>	<u>stream 252-10-10010 at mid tide point</u>
<u>16</u>	<u>Mousse mixed with gravel</u>
<u>17</u>	<u>Mousse mixed with organics/penetration 24"</u>

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

DESCRIPTION: 1330-1489 Mousse in gravel Tonki Bay

ANADROMOUS FISH OBSERVATIONS

	PINK	CHUM	RED	KING	COHO	DOLLY
Aerial						
Ground	1300					

COMMENTS: Fish count was made from high tide line of stream to confluence of stream 252-10-10010

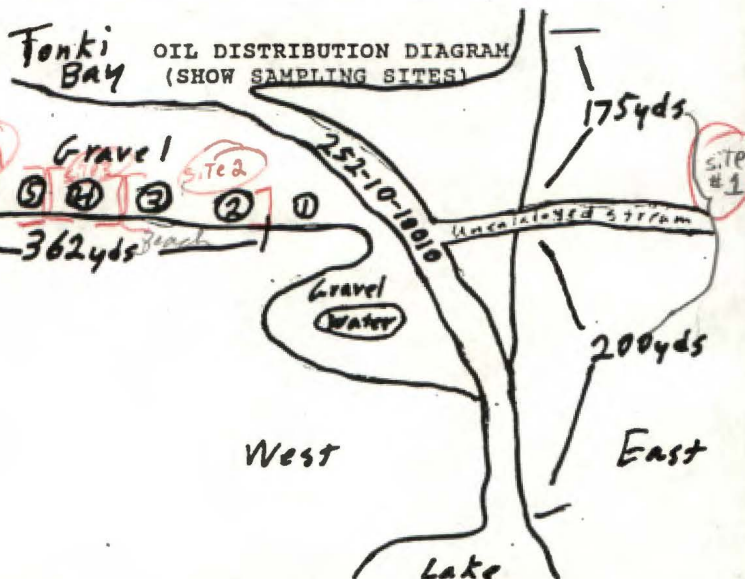
OIL OBSERVATIONS

EXTENT OF OIL:

	WITHIN STREAM	OUTSIDE STREAM
SURFACE COVERAGE	—	See notes
SURFACE THICKNESS	—	" "
PENETRATION	—	" "

PREDOMINANT SUBSTRATE TYPE:

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



COMMENTS: East side of stream Very Light 2"-4" mousse patties 2-10m from high tide. West side of stream along beach, 1st 170yds Light, 170-212 moderate 212-360 heavy. Samples taken along beach west of stream. Penetration up to 8" west of creek 2"-10" patties 5'-10' apart. Westside of creek 2-2" patties

A4-2

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



ALL-WEATHER

LEVEL

Notebook No. 311-M

Alaska Dept of Fish + Game Hub
Kodiak, AK 486-5033

Kodiak Archipelago Anadromous
Fish Habitat Assessment

1
Anadromous Fish Habitat
Assessment
Exxon Valdez Oil Spill

Date: 9/2/89

Site Number: A4-2

Location of sampling point:

Latitude - $58^{\circ}12'48''N$

Longitude - $152^{\circ}08'00''W$

Comments - off pilots map

Distances paced off

252-10-10010

Stream # 5

Tonki Bay

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

How many samples taken?

2

2

Volume of sampler taken:
250 ml

Date and Time of collection:

9/2/89 1200-1230

List of sample identification
numbers:

A4-2-1

A4-2-2

3

Description of sampling
point and sampling
methodology:

See Fish Hab. Ass. Form
7 sites

used methodology as specified
in Draft Plan of Anadromous
Habitat Assessment Plan
on Pg. 9

4

References (Maps, photographs, Video Footage):

- Aerial Photo: K1-9
- 35mm Pictures 195A-15, 16, 17
- Video 1330-1489

Roll # converted to
89-RGT-001-K

gfb

Field Observations:

Pilot - Roger Claycomb

Aircraft - 796T

(RD) East

~~East~~ side of stream Gravel/Cobble

Very light impact 2m-10m from high tide. 2"-4" patties very little penetration $\approx$.25 inch. Patties mixed with organics $\approx$ 10ft apart near ocean. Closer we got to lake, patties farther apart. Last 50yds no oil observed.

RD West

Creek only 2 patties from lake

5

to Bay. Beach ~~East~~ West of creek RD Light $\rightarrow$ heavy impact. 1st 170yds ^{very} light impact, discontinuous from stream

band of mouse patties .5"-6" at Last high tide line $\approx$ 9' from storm tide line. Penetration up to 4".

170-210yds was Light impact 3'-7' wide band. Penetration $\approx$ 4"

210-370yds and continues farther was Moderate to heavy impact. 3'-7' wide band at high tide line surface & subsurface mouse mixed with gravel & organics. Penetration 0"-8". 85-90% coverage in band. Oil working into gravel by wave action.

6

Roger Dunbar

9/2/89

ATOGNAK IS. - 10NK1 BAY

FISH HABITAT ASSESSMENT FORM

REGION: PWS KP, CI ☒ AP OBSERVER(S) Randy Talvi
Jeff Barnhart
Roger Dunbar

SITE NO. A4-2 AERIAL PHOTO NO. K1-9 CAT NO. 252-10-10010

STREAM NAME — LAT 58°12'48"N LONG 152°08'00"W

DATE 9/2/89 TIME 1102 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. A4-2-1 & A4-2-2

35 mm PICTURES TAKEN? ☐ Y ☐ N ROLL NO(S). 195A

EXPOSURE NO. DESCRIPTION

15 humpies in uncataloged stream/Drains into
~~15~~ 205. stream 252-10-10010 at mid tide point
16 Mousse mixed with gravel
17 Mousse mixed with organics/penetration 2-4"

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

DESCRIPTION: 1330-1489 Mousse in gravel Tenki Bay

ACE 6726119 + F/F

ANADROMOUS FISH OBSERVATIONS
PINK CHUM RED KING COHO DOLLY

	PINK	CHUM	RED	KING	COHO	DOLLY
Aerial						
Ground	1300					

COMMENTS: Fish count was made from high tide
line of stream to confluence of stream 252-10-10010

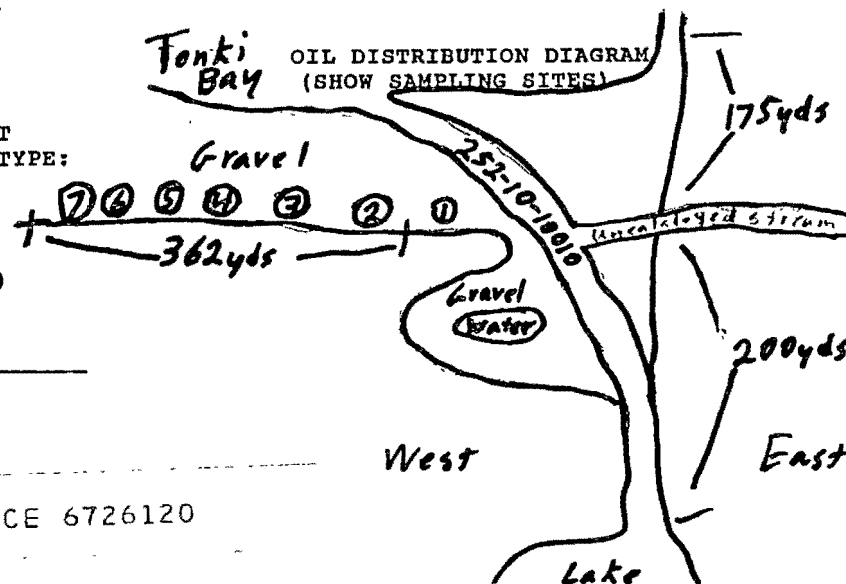
OIL OBSERVATIONS

EXTENT OF OIL:

	WITHIN STREAM	OUTSIDE STREAM
SURFACE COVERAGE	<u>—</u>	<u>See notes</u>
SURFACE THICKNESS	<u>—</u>	<u>" "</u>
PENETRATION	<u>—</u>	<u>" "</u>

PREDOMINANT SUBSTRATE TYPE:

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



COMMENTS: East side of stream Very light 2"-4" mousse patties
2-10m from high tide. West side of stream along beach, 1st
170yds light, 170-212 moderate 212-360 heavy, samples
taken along beach west of stream. Penetration up to 8"
west of creek 2"-10" patties 5'-10' apart. West side of creek 2-2"

SEGMENT INSPECTION RECORD

ADEC # K1-21

Shoreline Segment: TC-4

Shoreline Treatment Process(es) Completed for this Segment

Yards Signed Off

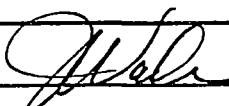
☐ Hot water wash	☐ Mechanical
☐ Warm water wash	☒ Non-mechanical
☐ Water deluge	☐ Other

Exxon

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

Exxon Comments

Signature



Date 8/24/89

Time 1530

Printed Name

Jim Wade

Existing Shoreline Condition As
Visually Determined by USCG

Surface Oil

Percent	Degree of Oiling
☐	Heavy
☐	Medium
☐	Light
☒ < 10%	Very Light

100%

Subsurface Oil

☐ Yes ☒ No

Comment Below

☐ Reassessment
☐ Yes - Necessary

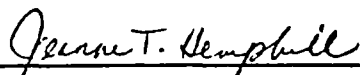
☒ No - Not necessary unless re-oiled

ADEC Rep

Comments

Tar + mousse "dots" stains on boulders near cliff + in high tide berm. Size of stain suggests a lot of oil once hit this beach. Very old stains.

Signature



Date 29 Aug 89 Time 1221

Printed Name

Jeanne T. Hemphill

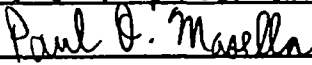
FOSC Rep

Demobilization approved/disapproved

Comments

Several splashes found in BEAM. LENGTH OF Beach Assessed: 200yds width: 20yds. No cleanup required.

Signature



Date 29 AUG 89 Time 1217

Printed Name

PAUL O. MASELLA

Copy: Exxon

ADEC

FOSC

ISCC

Return All Signed Originals to Exxon

ACE 6726105/F/S/HF

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 7/18/89

SHORELINE SEGMENT K1-21-TC-4

LOCATION: (see enclosed map) West arm of Tonki Cape to Tolstoi
Cape

ADEC NO. K1 SHORELINE ASSESSMENT DATE: 7/18/89

Recommended Cleanup Activity(ies):

-No cleanup recommended due to apparent absence of oil.
Subject to FOSC reassessment at a later date.

Priorities/Considerations:

Ecological Constraints (from site survey):

Archaeological Constraints (from site survey):

-If cleanup is planned, a full archaeological assessment
must be conducted due to archaeologically sensitive nature
of this segment.

J. David McManis
State Historic Preservation Officer *

Date: 7/31/89

EXXON: _____

Date: _____

FOSC: _____

Date: _____

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

ACE 6726106

(version 6/04/89)

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Block (see enclosed map): K1-21

Includes Shoreline Segments: TC-4

Location: Tonki Cape

Submitted: _____ Date: _____
(for Exxon)

FOSC Approval: _____ Date: _____

The cleanup procedures identified in the Shoreline Cleanup Program are recommended. Exxon and other field personnel are encouraged to suggest innovations and productivity enhancements to the OSC's on-scene representative. Requirements for safety and the protection of cultural material must be observed.

CC: KISCC

ACE 6726107

SHORELINE OIL EVALUATION

Date: 7/11/91 / Time: 1430
 Surveyed From: Food/Boat/Helio/Plane

Observer: M. Acton
 Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

Location: _____ Segment ID: K1-21-Tc-4
 Segment Length: 18 miles m. Access: Vehicle/Boat/Barge/Helio/Float Plane
 Access Restrictions: Limited helio access

SHORELINE

Shoreline Type: SPI/BEA/COV/HLD/STRT Slope: Lo/Med/Hi/Vert
 Wave Exposure: High/Med/Low
 Sediment: B 20 % / C 10 % / P _____ % / G&S 10 % / M 5 % / R 55 %

OIL

Avg. Degree of Oiling: HEAVY / MODERATE / LIGHT / VERY LIGHT / NONE OBSERVED
 Area of Impact: SU/SP/H/M/L

OIL DISTRIBUTION

Continuous % of Segment _____ SU/SP/H/M/L H/M/L/VL
 Sporadic % of Segment _____ SU/SP/H/M/L H/M/L/VL

Total	Length(m)	Width(m)		
Very light:	_____	_____	Thickness >1cm:	_____ cm SU/SP/H/M/L
Light:	_____	_____	Penetration/Rework:	_____ cm SU/SP/H/M/L
Moderate:	_____	_____	Burial Depth:	_____ cm SU/SP/H/M/L
Heavy:	_____	_____		

Utilization Potential: High/Medium/Low

Oil on Debris Oiled? Y/N Amount: H/M/L/VL SU/SP/H/M/L Type: _____

OIL MORPHOLOGY

Pooled Oil:	_____ %	SU/SP/H/M/L
"Free" Oil:	_____ %	SU/SP/H/M/L
Splattered:	_____ % H/M/L/VL	SU/SP/H/M/L
Coated:	_____ % H/M/L/VL	SU/SP/H/M/L
Pancakes/Balls:	_____ %	SU/SP/H/M/L

Preliminary Cleanup Est.

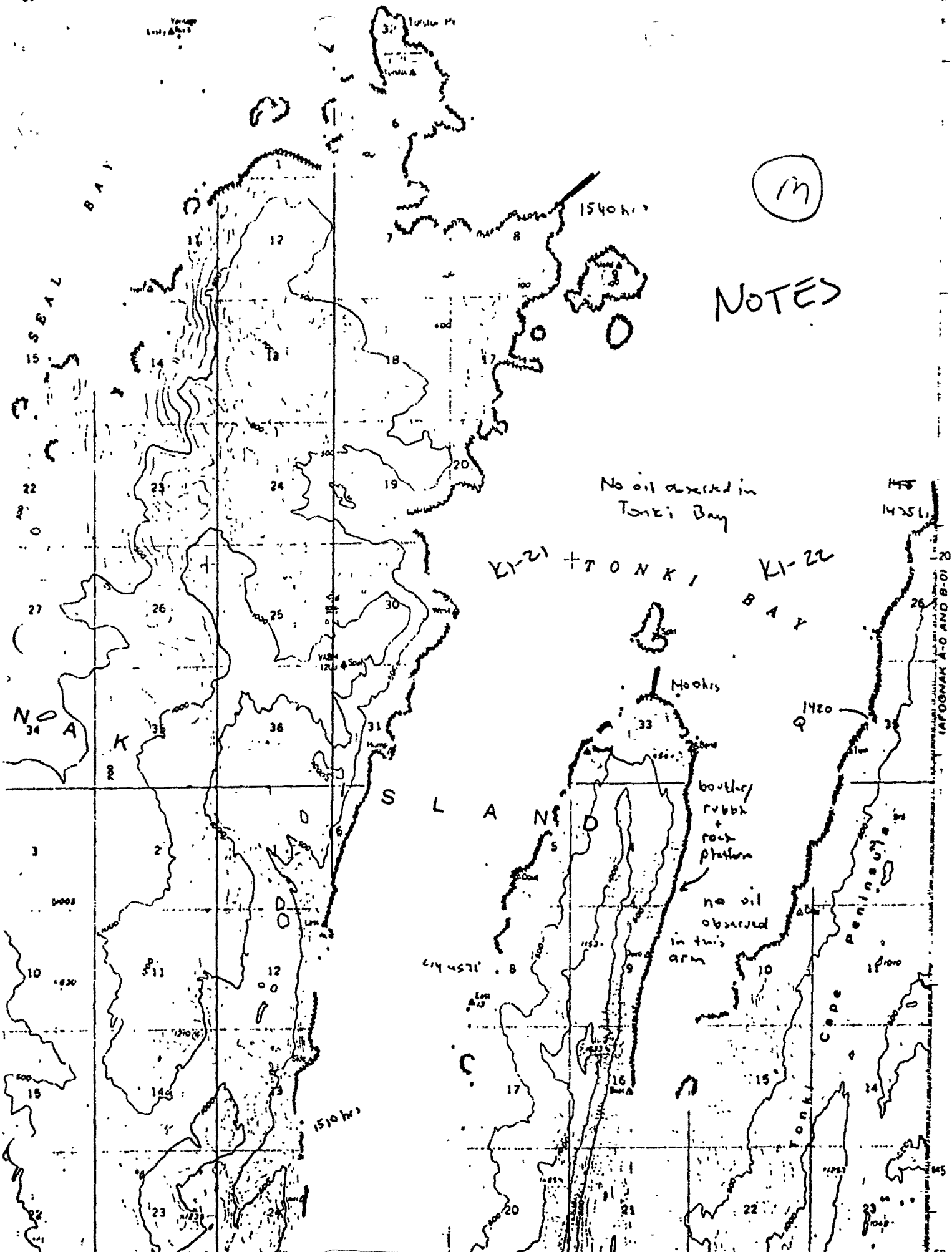
Total TYPE A: _____
 Total TYPE B: _____
 Total TYPE A/B: _____

OIL WEATHERING

Fresh:	_____ %	SU/SP/H/M/L
Mousse:	_____ %	SU/SP/H/M/L
Weathered Mousse:	_____ %	SU/SP/H/M/L
Asphalt Mousse:	_____ %	SU/SP/H/M/L
Tar:	_____ %	SU/SP/H/M/L

COMMENTS

No oil was observed in this segment. Segment was surveyed by helio.
 Several locations were surveyed on foot.



17

NOTES

No oil observed in
Tongk Bay

KI-21 + T O N K , KI-22

Hook's

boulder
rubble
+ rock
platform

no oil
observed
in this
arm

10 (AFOGNAK A-II)

ACE 6726109

INTERIOR GEOLOGICAL SURVEY, RESTON, VIRGINIA 20192
5580000 E

152°00'

ECOLOGICAL EVALUATION

LOCATION: Kodiak SITE: Afogak Isl. - Cape Tonki Peninsula OBSERVER: G. Penn

LOCATION PREFIX: K1-21 SEG. NO.: TC-4 LENGTH: _____ (M)

DATE: 07/18/89 TIME (HHMM): 14:37 TIDE HT.: 3.0 (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

Only on angular rock pinnacles

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

Only on angular rock & rock pinnacles

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

Generally limited to offshore boulders & sand bottom & offshore angular pinnacles.

Littorina

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

not observed

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

not observed

OTHER OBSERVATIONS: Nereocystis Kelp Beds well developed near mouth of Bay in subtidal - 30m offshore

CLEANUP PRECAUTIONS: None - no oil observed

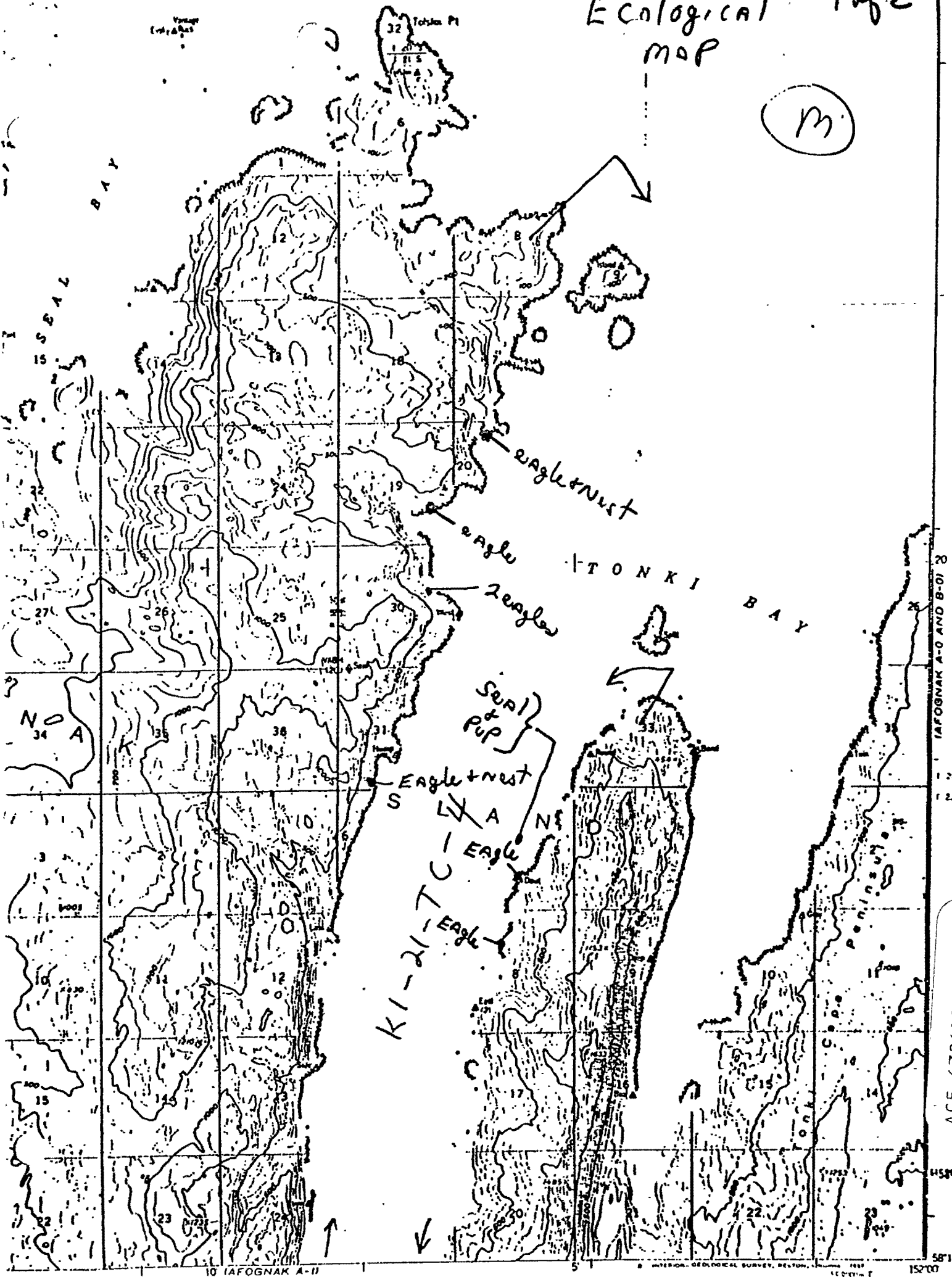
MAMMALS: Otters _____ Harbor Seals ☒ Sea Lions _____ Whales _____
Other _____

BIRDS: Eagle's & nest

GENERAL OBSERVATIONS: Intertidal poorly speciated compared to open ocean fringing same area

Ecological map 1 of 2

(M)



10 (AFONAK)

180,000 FEET

15

Tonki-21-T Bay



5

4

KODIAK ISLAND BOROUGH

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date July 18, 1989 Location East Afognak Is. Site Tonki Cape Peninsula

Location Prefix KL-21 Segment # TC-4 Length 22 3/4 miles

Survey Method:

Air 100% (A - indicate on map) Boat _____ (A - indicate on map)

Ground _____ (G - indicate on map)

Known cultural resources (AHRS #) AFG-55, 56 Data Source AHRS

Oil conditions/beach visibility No oil

Width of beach zone surveyed _____ m Tree fringe surveyed _____

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 steep cliffs, jagged ^{Flood plain at south end more gentle terrain} Irregular Shore w/ boulders / upland steep forested

Fresh Water Sources stream at south end; small streams - waterfalls

Sea Exposure Very exposed, high energy shore line; south end more protected

Access/Safety very dangerous boat/plane except at south end.

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 # _____ Frames _____

Observer(s) R. Jordan

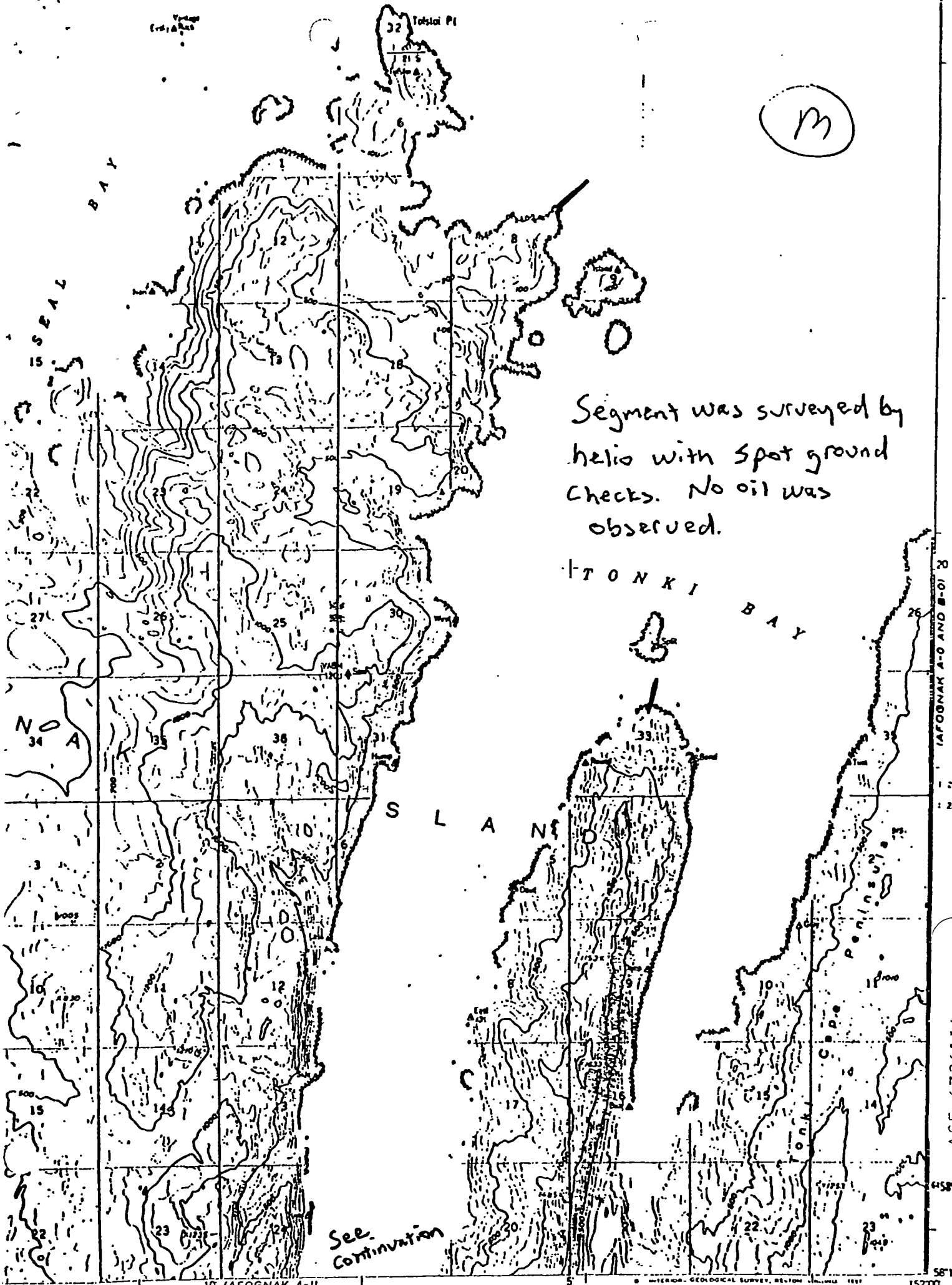
Time survey started 14:40 Time survey ended 15:38

Cultural resource considerations/restraints:

No oil - hence no cleanup recommended at this time.

If cleanup is recommended in the future, the areas

surrounding AFG-55 & 56 must be reevaluated.



Segment was surveyed by
helio with spot ground
checks. No oil was
observed.

TONGA BAY

See
Continuation

ACE 6726114

TAFOGNAK A-0 AND B-01 X

10 (AFO)

AK B-11

5 11

1:63 300 (FEET)

Tonki Bay

Cove

Pillar Cove

KODIAK ISLAND BOROUGH

ACE 6726115 - S

2
Volume of sampler taken:
250 ml

Date and Time of collection:
9/2/89 1200-1230

List of sample identification
numbers:

A4-2-1

A4-2-2

ACE 6726121

3
Description of sampling
point and sampling
methodology:

See Fish Hab. Ass. Form
7 sites

used methodology as specified
in Draft Plan of Anadromous
Habitat Assessment Plan
on Pg. 9

ACE 6726122

4

References (Maps, photographs,
Video Footage):

- Aerial Photo: K1-9
- 35mm Pictures 195A-15, 16, 17
- Video 1330-1489

Field Observations:

Pilot - Roger Claycomb
Aircraft - 796T

(RD) East
~~East~~ side of stream Gravel/Cobble
Very light impact 2m-10m from
high tide. 2"-4" patties very little
penetration $\approx$.25 inch. Patties mixed
with organics $\approx$ 10ft apart near
ocean. Closer we got to lake,
patties farther apart. Last 50yds
no oil observed. ~~East~~ side of
Creek only 2 patties from lake

5

to Bay. Beach RD ~~East~~ West
of creek ^{Light} $\rightarrow$ heavy impact.
1st 170yds ^{Light} impact, discontinues
from stream

band of moussé patties .5"-6"
at Last high tide line $\approx$ 9'
from storm tide line. Penetration
upto 4".

170-210yds was Light impact
3'-7' wide band. Penetration $\approx$ 4"

210-370yds and continues
farther was Moderate to heavy
impact. 3'-7' wide band at high
tide line surface & subsurface
moussé mixed with gravel &
organics. Penetration 0"-8".
85-90% coverage in band.
Oil working into gravel by wave
action.

Tonk; Bay can't

ACE 6726123

ACE 6726124

A4-2

"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.

"Rite in the Rain" All-Weather Writing Papers are also available in a wide selection of rolls and sheets for printing and photocopying.

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TACOMA, WA 98421-3696 USA

ACE 6726125

Alaska Dept of Fish + Game Herb
Kodiak, AK 486-5033

Kodiak Archipelago Anadromous
Fish Habitat Assessment

ACE 6726126

Anadromous Fish Habitat
Assessment
Exxon Valdez Oil Spill

Date: 9/2/89

Site Number: A4-2

Location of sampling point:

Latitude - 58°12'48"N

Longitude - 152°08'00"W

Comments - off pilots map

Distances paced off

252-10-10010

Stream # 5

Tonki Bay

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

How many samples taken?

2

ACE 6726127

pink salmon count

Extreme Tide line up stream

58° 14' 40" N Lat

152° 19' 20" W Long

70 dead
375 live

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

Subsample #1 weathered mousse

110 yds
from extreme tide
mark up stream
Subsample #1
Time 10:30 AMSubsample
#16 10:31 AM2 feet from
subsample #5
mousse (spores)
bird feathers 5Subsample #7
mousse / feathers
spore needles

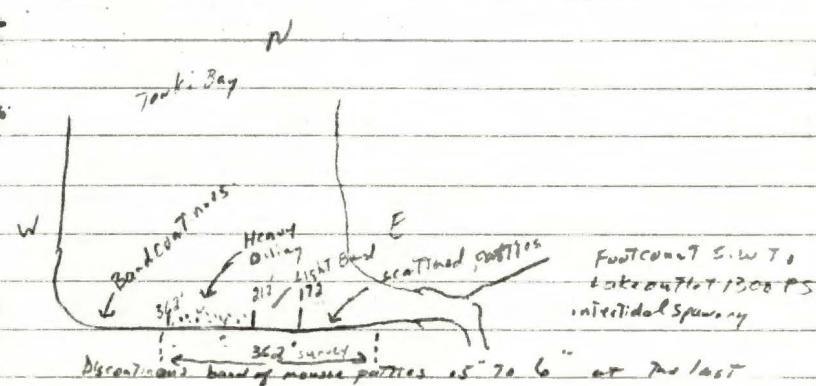
211 yds subsample #2 mouse / spore needles

Every 10-15 feet (2 meters from high tide mark)
occurs a small mousse patch 1.5" to 3.0" in dia.
Also every 100 feet occurs larger patches 6"-10"
After observations from high tide mark to 400 yd mark441 yds subsample #3 mousse / grass / feathers
taken 2 meters from high tide mark334 yds grass / spot mousse 2-6" patches
right againstmousse patches 4-10 yds foot
2-6" patches in rock areasSubsample
#14
mousse
3 meters
from tide markend of
surveymousse patch laying on estuary bottom
100 ft. No penetrationBand of oiling (mousse patches 415 yards
long 100 feet wide starting 2 meters from estuary
Tide toward estuary, light time
end of survey 1000 yardsmeasurements taken by pacing following curvature of shoreline.
See Randy's notes for other infoSite A4-2 STOP
11:04 AM58° 12' 48" N Lat
152° 08' 00" W Long

Head of Tanki Bay

Stream W 252-10-10010

Viedo 1330-2153



high tide mark which is 9 feet from storm tide line, Penetration up to 4" in (patches have melted into the gravel)
Gravel substrate Viedo 1330 - mousse getting worked down into gravel by tide action. Bay & Beach

Band of surface/subsurface mousse (stick + wet) 3-7 feet wide 0-8" deep M-H. Coverage of oil in band is 85-90%. Mousse is mixed with spore 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.

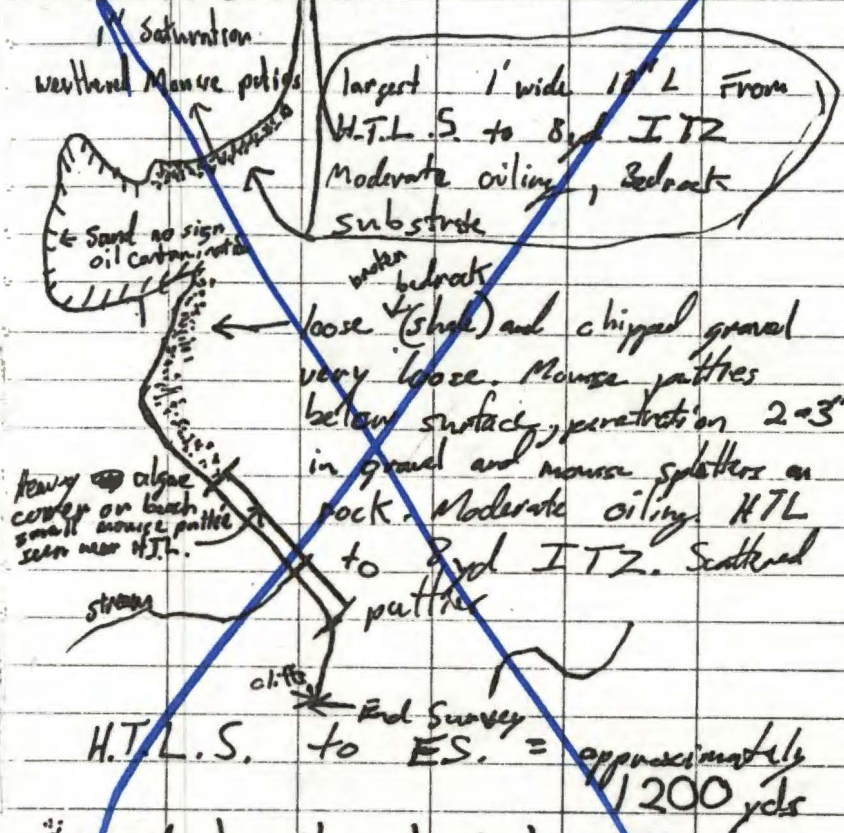
Viedo 1437-1489 footage of cataloged & uncataloged stream Head of Tanki Bay

9/26/9

Stream Survey

(6)

Afognak Is. A4-1
8:45-10:30 am HTLS.



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

ACE 6726130

Video 0971-1330

(7)

no Stream 70' deep - 50' wide Fish
→ Footage of HTLS, stream
to mouth, mouse patches, and
sample from 5' deep.
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 | Depth | HTL |
|--------|--------|-----------|
| 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 6726131

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

76 5 4
← 362 yds

#4 3m from high 6 pattie
lots of organics

A4-2 11:02

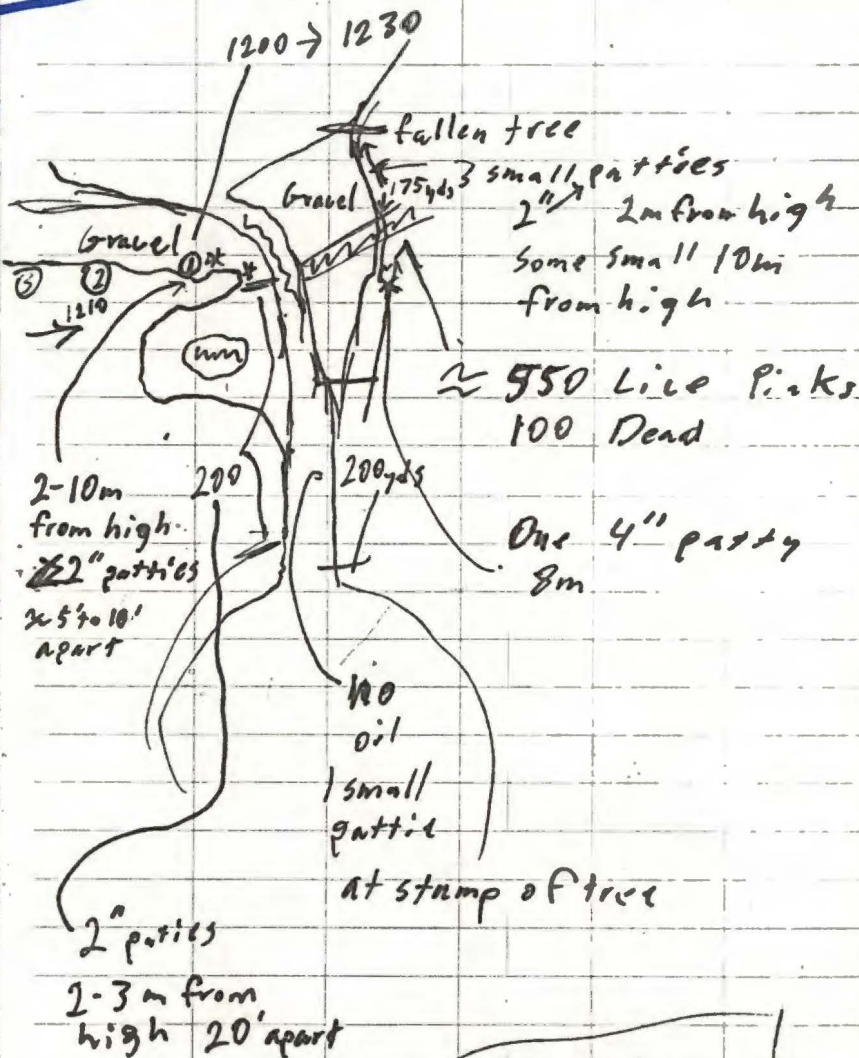
Tonki Bay Stream 101

252-10-10010

photo# K1-9

1013 Low

ACE 6726132



ACE 6726133-L/HF