

ADF&G MULTI-ASSESSMENT FORM
1991 GENERAL ENTRY CHECKLIST

DDH
10/4/91



OK



STREAM#: 2321010250
SEGMENT: YG002

PAGE 1

DATE PRINTED: 08/14/91

LOCATION: NUKA PASSAGE, YALIK GLACIER, 1.3 M W OF DIVISION I

SURVEY TYPE: 89 AFHS - BS

METHOD: GROUND

FOOT

DATE: 07/26/89

TEAM RECORDER: HILL

START TIME: 1255

OBSERVERS: RANDALL

END TIME: 1348

TIDES: *Ebb*

AGENCY: FG

OG/HAB DISCREPANCIES:

PHOTOS TAKEN: Y

STATION: 2321010250

ROLL#: 89DDH011H 89DDH026H

FRAME: 06-12 18-26

VIDEO TAKEN: *Y*
START:

TAPE#: END:

SEGMENT # of oiled Area
is Y6-2

DDH
10/4/91

2 The
Stream
is in
Y6-3

SAMPLES TAKEN: Y

SAMPLE NUMBERS: 89DDH019H

OIL IN STREAM BED: N

OVERALL OIL IMPACT: M/H

OIL ON BEACH BY MOUTH: N

WAVE EXPOSURE: MOD

SHORELINE TYPE: BEACH TIDE FLAT

SUBSTRATE TYPE: BEDROCK

BOULDER

(residual)
COBBLE *80*

VEGETAT

GRAVEL *20*

SAND

MUD/SILT *20*

GRANULE

ANADROMOUS FISH PRESENT:

SPECIES: *PINK SALMON*
Chum

COUNT: *2*
1

ACE 9961620 +IF/SIP/SG
+10

ADF&G MULTI-ASSESSMENT FORM
1991 OILING ENTRY CHECKLIST

ok

PAGE 1

DATE PRINTED: 08/14/91

STREAM# : 2321010250
SEGMENT#: YG003

SURVEY TYPE : 89 AFHS - BS
DATE: 07/26/89
TIMES: 1255 - 1348

LOCATION: NUKA PASSAGE, YALIK GLACIER,
1.3 M W OF DIVISION I
TEAM RECORDER: HILL

-- OILING EXTENT --

| SITE# | SITE TYPE | DEPTH (cm) | LENGTH (m) | WIDTH (m) | AREA (m) | % | THICK (cm) | PEN (cm) | OIL TYPE CODES |
|-------|-----------|------------|------------|-----------|----------|-----|------------|----------|----------------|
| 1 | | | 366 | 9-15 | | X15 | | | TB TP ST CT |
| 2 | | | 73 | | | | <20 | <7.5 | TAR MS ST |
| 3 | | | 64 | 27 | | | <20 | <7.5 | TAR MS ST |
| 4 | | | 46 | | | | <20 | <7.5 | TAR MS ST |
| 5 | | | 46 | 27 | | | <20 | <7.5 | TAR MS ST |
| 6 | | | 46 | 9 | | | 220 | 5.0 | TAR, MS, ST |

208

ACE 9961621-15

ADF&G MULTI-ASSESSMENT FORM
1991 OILING ENTRY CHECKLIST

oh

PAGE 2

DATE PRINTED: 08/14/91

COMMENTS:

SITE 4-1. $\sim\frac{1}{2}$ MILE OF OILED SURFACE. BLACKENED COBBLE AND PATCHES OF OIL FREQUENTLY FOUND SUBSURFACE. FREQUENTLY FOUND CLEAN SURFACE WITH SUBSURFACE OF MS. VERY DENSE HARD PACKED COBBLE AND GRAVEL. HAND PICKUP AND BIOREMEDIATION OCCURRED ON THIS BEACH. SALMON WERE OBSERVED IN CLEAR WATER STREAM ON WEST SIDE OF VALLEY. AERIAL SURVEYED $\sim 1\frac{1}{2}$ MILES OF EAST SIDE YALIK GLACIER STREAM (SILT OBSCURED OBSERVATION). OBSERVED CLEAR WATER CHANNELS ON EAST SIDE OF GLACIAL STREAM ($1\frac{1}{2}$ MILES ABOVE MOUTH - NO FISH OBSERVED). SPORADIC TAR OBSERVED IN SITE #1.

1989-AFTLS ★

Site 4-1

YALIK Glacier

ASC NUMBER: 232-10-10250 SEGMENT NUMBER: YG-2 YR CATALOGED:
 LOCATION: Nuka Passage, YALIK Glacier Beach
 REAM NAME: YALIK west creek LATITUDE: 59 25 25
 NODIAK K-UNIT: LOCAL STREAM #: LONGITUDE: 150 43 50
 BS QUADRANGLE: Seldovia B-2 LEGAL: S 95 9W 1
 SHORELINE TYPE: Beach, Tide Flat ALL SEGMENTS:
 WAVE EXPOSURE: M

ASC NUMBER:
 SURVEY TYPE: BS
 METHOD: Ground
 DATE: 7/26/89
 START TIME: 1255
 STOP TIME: 1348

TEAM RECORDER: Coy Hill
 OBSERVERS: Rick Randall

AGENCY(IES): ADF+G

PHOTOS TAKEN?
 Roll #: 89DDH11H → Frames: 6,7,8,9,10,11,12
 VIDEO TAKEN? Tape Number: 8 → 26
 Counter Start:

SAMPLES TAKEN?

SAMPLE I.D. NUMBERS: 1. ^{89DDH019H} DDH/RDR-7/26/89-1255 2. 3.
 4. 5. 6.

| | LENGTH m | WIDTH m | M2 | % | THICK cm | PEN cm | OIL TYPE |
|--------|----------|---------|----|-----|----------|--------|------------------------------------|
| SITE 1 | 366 | 9-15 | ← | ≈15 | — | — | Sporadic Tar FB, TP, ST, CT, CV |
| SITE 2 | 73 | — | — | — | <20 | <7.5 | TAR, MS, ST |
| SITE 3 | 64 | 27 | — | — | <20 | <7.5 | TAR, MS, ST |
| SITE 4 | 46 | — | — | — | <20 | <7.5 | TAR, MS, ST |
| SITE 5 | 46 | 27 | — | — | <20 | <7.5 | TAR, MS, ST |

OVERALL OIL IMPACT: m/H ⁴⁶ 9 L20 5.0 ~~TAR~~ MS, ST

OIL IN STREAM CHANNEL? N
 SUBSTRATE

OIL ON BEACH WITHIN 50M OF STREAM MOUTH? NO

| | |
|-----------|---------|
| Bedrock | Granule |
| Boulder | Sand |
| Cobble 60 | Silt 20 |
| Pebble 20 | Veget. |

| SPECIES | Pink | Chum | | | |
|---------|------|------|--|--|--|
| COUNT | 2 | 1 | | | |

COMMENTS: Approx. 1/2 mile of oiled surface
 - Blackened cobble and patches of oil frequently found subsurface
 - Frequently found clean surface with subsurface MS
 - very dense hard packed cobble + gravel
 - HAND Pickup + Bioremediation occurred on this beach
 - Salmon were observed in clearwater stream on west side of valley
 - Aerial surveyed ≈ 1.5 miles of east side Yalik Glacier stream (silt obscured observation)
 - observed clearwater channels on east side of glacial stream (1-1.5 miles above mouth - No fish observed.

YA

FISH HABITAT ASSESSMENT FORM

YALIK Glacier

2 miles off

1 REGION:

2 PWS

3 KP, CI

~~4 AD~~

5 OBSERVER(S)

Dry Hill, Rick Renzell

6 SITE NO.

4-1

7 AERIAL PHOTO NO.

Roll # 011

10, 11, 12

8 CAT NO.

11C

9 STREAM NAME

10 LAT

59°

Roll # 026
23, 24, 25

11 LONG

150°

43 50

43 50

12 DATE

7/26/89

13 TIME

1255

14 TIDE: Low slack

Flood

High slack

5DD

15 CATALOGED ANADROMOUS STREAM? Y N

16 ANAD. FISH FOUND? N

17 OIL FOUND IN STREAM? Y N

18 OIL FOUND NEAR STREAM (1 MI.)? N

19 OIL SAMPLES TAKEN? N

20 ID NOS. DOH/RDR-7/26/89-1255

21 35 mm PICTURES TAKEN? Y N

22 ROLL NO(S)

89-DOH-011

89-DOH-026

23 EXPOSURE NO.

24 DESCRIPTION

10, 11, 12

Aerials

6, 7

Sample # DOH/RDR-7/26/89-1255. Thick mucus found below oil blackened cobble - up to 1" thick. Location ID photo

8, 9

19, 20

Tool used to scavenge YALIK Glacier beach

21, 24, 25

Triple Granular Fertilizer on YALIK Glacier Beach

23

Typical ^{state} oil on beach at time of Bioremediation

25 VIDEO FOOTAGE TAKEN? Y N

26 CASSETTE NO(S)

27 DESCRIPTION:

ANADROMOUS FISH OBSERVATIONS

| | PINK | CHUM | RED | KING | COHO | DOLLY | | |
|--------------|------|------|-----|------|------|-------|--|--|
| 28 Aerial | 2 | 1 | | | | | | |
| 29 Ground | | | | | | | | |

30 COMMENTS: Salmon observed in Clearwater Stream on west side of valley
Aerial surveyed \approx 1/2 miles of East side Yaluk Glacier stream - Silt observed observation.
Observed Clearwater channel on East side of glacial stream (1-1/2 miles above mouth) No fish observed

Site
4-1

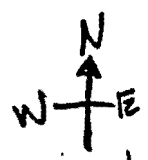
OIL OBSERVATIONS

EXTENT OF OIL:

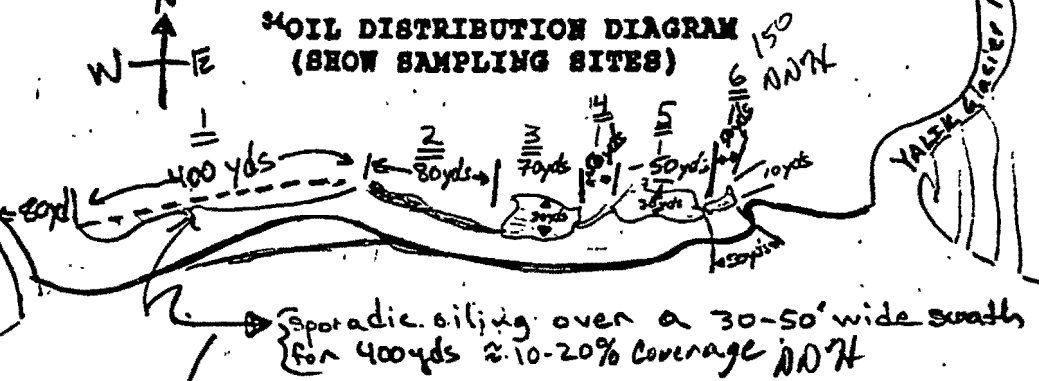
| | WITHIN STREAM | OUTSIDE STREAM |
|----------------------|---------------|---------------------------------|
| 31 SURFACE COVERAGE | None | Approx. 1/2 mile L'neal |
| 32 SURFACE THICKNESS | Observed | up to 3/4" \approx 2.0 cm DNH |
| 33 PENETRATION | | To 3" \approx 7.5 cm DNH |

34 PREDOMINANT SUBSTRATE TYPE:

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



34 OIL DISTRIBUTION DIAGRAM (SHOW SAMPLING SITES)



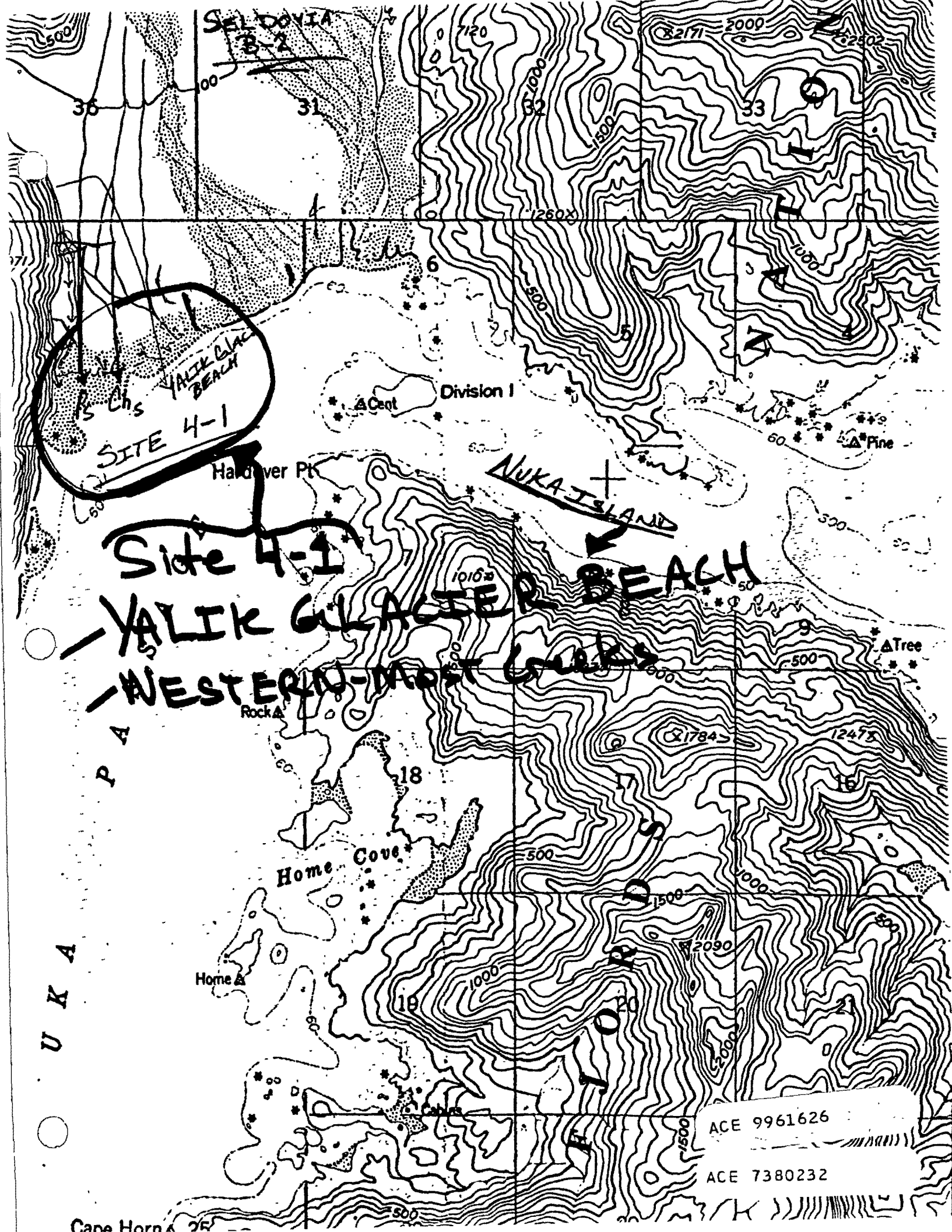
NUKA PASSAGE

- Approx. 1/2 mile of oiled surface
- Blackened cobble and patches of oil frequently found subsurface
- Frequently found clean surface - mouse found upon turning rocks over

NC
SALMON
STREAM
(Clearwater)

35 COMMENTS: Very dense hard packed cobble & gravel. Cleanup activities occurred on the beach (hand pickup and bioremediation)

AGE 9961625



SELDOVIA

36

31

120

2171 2000

2202

33

1260

SITE 4-1
YALIK GLACIER BEACH
Is Chs

Division I

Cent

Pine

Halover Pt

NUKA ISLAND

Side 4-1

YALIK GLACIER BEACH

WESTERN-MOST GLACIER

Rock

Tree

P A

18

Home Cove

Home

19

1500

2090

12475

20

ACE 9961626

ACE 7380232

Cape Horn 25

State of Alaska
 Department of Fish and Game
 Nomination for Waters
 Important to Anadromous Fish

Year of Revision

Anadromous Water Catalog Volume Southcentral Region

USGS Quad Seldovia B-2

Name of Waterway None Known (Yalik Glacier West creek-for purposes Here)

Anadromous Water Catalog Number of Waterway NC

4-1

Change to _____ Atlas
 _____ Catalog
 _____ Both

Addition X

Deletion _____

Correction _____

Name addition:

USGS name None

Local name None Known

For Office Use

| | |
|---------------------------|------------|
| Nomination # _____ | |
| Regional Supervisor _____ | Date _____ |
| | |
| Drafted _____ | Date _____ |

| Species | Date(s) Observed | Spawning | Rearing | Migration |
|-------------|------------------|----------|---------|-----------|
| Pink Salmon | 7/26/89 | X | | |
| Chum Salmon | 7/26/89 | X | | |
| | | | | |
| | | | | |

Comments: Provide any clarifying information, including number of fish observed, location of fish survey data, etc.

2 Pinks and 1 chum observed 1 mile above saltwater
1-1/2 miles of stream surveyed-lower 1-1/2 miles.
Original data on file with state EXXON Valdez Oil Spill Lawyers

Attach a copy of a map showing location of mouth and upper points of each species, specific stream reaches identified for spawning or rearing, locations of barriers, such as falls. Attach a copy of the fish survey data, if available.

Name of Observer (please print) Douglas D. Hill

Date: ^{DDH} 12/13/89 Signature: Douglas D Hill

Address: Oil Spill Response Center, 509 Sterling Hwy.

Homer, AK. 99603 235-5322

Signature of Area Biologist: _____

ACE 9961627-151P

ACE 7380229

ADF&G MULTI-ASSESSMENT FORM
1991 GENERAL ENTRY CHECKLIST



STREAM#: 2321010250
SEGMENT: YG003

PAGE 1

DATE PRINTED: 06/21/91

LOCATION: NUKA PASSAGE, YALIK GLACIER, 1.3 M W OF DIVISION I

SURVEY TYPE: 90 PRE SCREEN - ~~88~~ 87

METHOD: GROUND

DATE: 04/14/90

TEAM RECORDER: HILL

START TIME: 1100

OBSERVERS: MCLANE REID

END TIME: 1145

OG/HAB DISCREPANCIES: -

AGENCY: FG USCG

PHOTOS TAKEN: Y

STATION: 2321010250

ROLL#: 90DDH004H

FRAME: 9-24

VIDEO TAKEN: N

TAPE#: -0-

START: -0-

END: -0-

SAMPLES TAKEN: Y

SAMPLE NUMBERS: ?? 90DDH068H ← ok.

DDH/sm-4/14/90-1120

-0- -0-

-0- -0-

OIL IN STREAM BED: N

OVERALL OIL IMPACT: H

OIL ON BEACH BY MOUTH: -N

MAD - transfer sheet contradict

WAVE EXPOSURE: MOD

SHORELINE TYPE: BEACH

SUBSTRATE TYPE: BEDROCK -0- BOULDER -0- COBBLE 60 VEGETAT -0-

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

ANADROMOUS FISH PRESENT: -

SPECIES: -0-

COUNT: -0-

-0-

-0-

-0-

-0-

-0-

-0-

-0-

-0-

ADF&G MULTI-ASSESSMENT FORM
1991 OILING ENTRY CHECKLIST



PAGE 1

DATE PRINTED: 06/21/91

STREAM# : 2321010250
SEGMENT#: YG003

SURVEY TYPE : 90 PRE SCREEN - ~~88~~ ⁸⁹ LOCATION: NUKA PASSAGE, YALIK GLACIER,
DATE: 04/14/90 1.3 M W OF DIVISION I
TIMES: 1100 - 1145 TEAM RECORDER: HILL

-- OILING EXTENT --

| SITE# | SITE TYPE | DEPTH (cm) | LENGTH (m) | WIDTH (m) | AREA (m) | % | THICK (cm) | PEN (cm) | OIL TYPE CODES |
|-------|-----------|------------|------------|-----------|--------------------------|----|------------|----------|-----------------------|
| 1 | -0- | -0- | 400 | 30 | ^{12,000} -0- | 60 | <20 | <20 | AP, PT, MS, HOR → LOR |
| 2 | -0- | -0- | 250 | 3 | -0- | 30 | <10 | <20 | AP, PT, MS, HOR → LOR |

COMMENTS:

SURVEYED TARMAT/ASPHALT AREA ONLY (EASTERN PORTION OF BEACH). ASPHALTING AREA DIFFICULT AT FIRST TO DETECT FROM AIR (UNLIKE 1989), READILY VISIBLE ON GROUND. OBSERVED VERY HARD MAT OF ASPHALT OF APPROXIMATELY THE SAME PROPORTIONS AS 1990, VERY ROUGH ESTIMATE 400 YARDS LONG X 10 TO 30 YARDS WIDE, AND NARROWER IN SOME AREAS. THICKNESS OF MAT RANGED FROM 1/2" TO 5". UPON BREAKING THROUGH THE "HARD" OUTER SURFACE WE FOUND FRIABLE AND SHINEY OIL SATURATED SEDIMENT (DARK BROWN TO BLACK). GRAVEL/COBBLE CEMENTED IN PLACE BY ASPHALT. PORTION BECOMING SHINEY AND OF LOWER VISCOSITY. NUMEROUS PORTIONS OF THE MAT HAVE BEEN LIFTED/DISPLACED TO PARTS UNKNOWN (ABRUPT SHELF-LIKE EDGES). CHOCOLATE BROWN MOUSSE OBSERVED OCCASSIONALLY. PORTIONS THINNER AREAS - WHERE WAVES HAVE REMOVED SURFACE COBBLE & GRAVEL FROM OIL SURFACE - LEAVING THE BEACH WITH A SMOOTHER MORE SORTED LOOK. MAT COULD BE SCOOPED UP. ANADSCAT RECOMMENDED.

OIL ON STREAM BANKS: NO

OIL WITHIN 1 MILE OF STREAM: YES, 3/4 MILE NE OF ANADROMOUS FISH STREAM



ASC NUMBER: 232-10-10250 SEGMENT NUMBER: YG-2
 LOCATION: KPOC - Yalik Glacier - Western-most stream
 STREAM NAME: -
 DIAK K-UNIT: LOCAL STREAM #:
 USGS QUADRANGLE: Seldovia B-2
 SHORELINE TYPE: Beach ALL SEGMENTS:
 WAVE EXPOSURE: Moderate

YR CATALOGED:

LATITUDE: 59 25 25
 LONGITUDE: 158 43 50
 LEGAL:

ASC NUMBER:
 SURVEY TYPE: Pre-screening BS
 METHOD: Foot
 DATE: 4 / 14 / 90
 START TIME: 1100
 STOP TIME: 1145

TEAM RECORDER: Doug Hill
 OBSERVERS: Susan McHane, Jack Reid
 AGENCY(IES): ADF&A, USCG
 PHOTOS TAKEN? Yes
 Roll #: 9000H004 Frames: 9 → 24
 VIDEO TAKEN? NO Tape Number:
 Counter Start:

SAMPLES TAKEN?

SAMPLE I.D. NUMBERS: 1. DOH/sm-4/14/90-1120 2. 3.
 4. 5. 6.

subsurface?

| | LENGTH m | WIDTH m | M2 | % | THICK cm | PEN cm | OIL TYPE |
|--------|----------|---------|----|-----|----------|--------|-----------------|
| SITE 1 | 400m | 30m | | 60% | < 20cm | < 20cm | AP, PT, HDR, MR |
| SITE 2 | 250m | 3m | | 30% | < 10cm | < 20cm | AP, PT, HDR, MR |
| SITE 3 | | | | | | | |
| SITE 4 | | | | | | | |
| SITE 5 | | | | | | | |

OVERALL OIL IMPACT: H

OIL IN STREAM CHANNEL? NO

OIL ON BEACH WITHIN 50M OF STREAM MOUTH? NO

*Contradicts MAD form
OK*

SUBSTRATE

Bedrock Granule
 Boulder Sand
 Cobble Silt
 Pebble Veget.

| | | | | | |
|---------|--|--|--|--|--|
| SPECIES | | | | | |
| COUNT | | | | | |

COMMENTS: SEE attached MAD Form (Comments and diagram section)

Area was surveyed in 1989

OK

GROUP A

ADF&G MULTI-ASSESSMENT DATA FORM

Prescreening

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

2 REGION: PWS KP,CI K,AP

METHOD: Aerial Ground Boat

3 DATE: 4-14-90

16 HIGH TIDE TIMES: 1706

21 TEAM RECORDER: Doug Hill

4 START TIME: 1100

18 HIGH TIDE HTS: 9.6

22 OBSERVERS: S. Melone J. Reid

6 STOP TIME: 1145

17 LOW TIDE TIMES: 1053

23 AGENCY: ADFG

8 SEGMENT #: YK YG-1(2?)

19 LOW TIDE HTS: 0.2

24 PHOTOS TAKEN: (Y) N

7 STATION #: 232-10 DOH

20 TIDE HT AT SURVEY: LOW

Roll #: 9000H004 Frame: 17,19,19,20,21,22,23

8 K-UNIT: _____

Ebb Slack Flood Slack

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

9 STAT AREA: 232-10

20 USCG QUAD: SE Louia B-2

Start: _____ End: _____

10 LAT: N 59° 25.5

11 LONG: W 150° 42.2

26 SAMPLES TAKEN: (Y) N Number _____

12 SOURCE: Map Loran

(01) Yalik Glacier DOH/smt 4/14/90-1120

13 LOCATION: North Shore Nuka Passage - 1 mile N Nuka Island

Sediment _____

14 DESCRIPTION: Yalik Glacier Beach

Biological _____

Water _____

EXTENT OF OIL

| | SHORELINE | | | | STREAM | | | |
|------------------------|-----------|--------|----------------|----------------|--------|-------|----------------|---|
| | L | W | M ² | % | L | W | M ² | % |
| 27 SURFACE COVERAGE | | | | | | | | |
| 28 SURFACE THICKNESS | | | | | | | | |
| 29 PENETRATION | | | | | | | | |
| 30 OVERALL OIL IMPACT: | N | VL | L | M | H | | | |
| 31 OIL TYPE: | Pooled | Mousse | <u>Tar</u> | <u>Asphalt</u> | Sticky | Stain | | |
| 32 OILED DEBRIS? | Y | N | | | | | | |

36 CATALOGED ANAD. FISH STREAM? (Y) N

37 CATALOG #: Non-cataloged

38 STREAM NAME: Yalik Glacier - West Creek

39 OIL IN STREAM BED? Y (N) NONE OBSERVED

40 OIL ON STREAM BANKS? Y (N)

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

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

Where: 3/4 mile NE of Anadromous fish stream

43 ANADROMOUS FISH PRESENT? Y (N)

44 ANADROMOUS FISH OBSERVATION

| Species | Aerial | Ground |
|-------------|--------|--------|
| | | |
| ACE 9961631 | | |

REASILY visible on ground
Dimension will obviously be revised adjacent

YES?
1989?

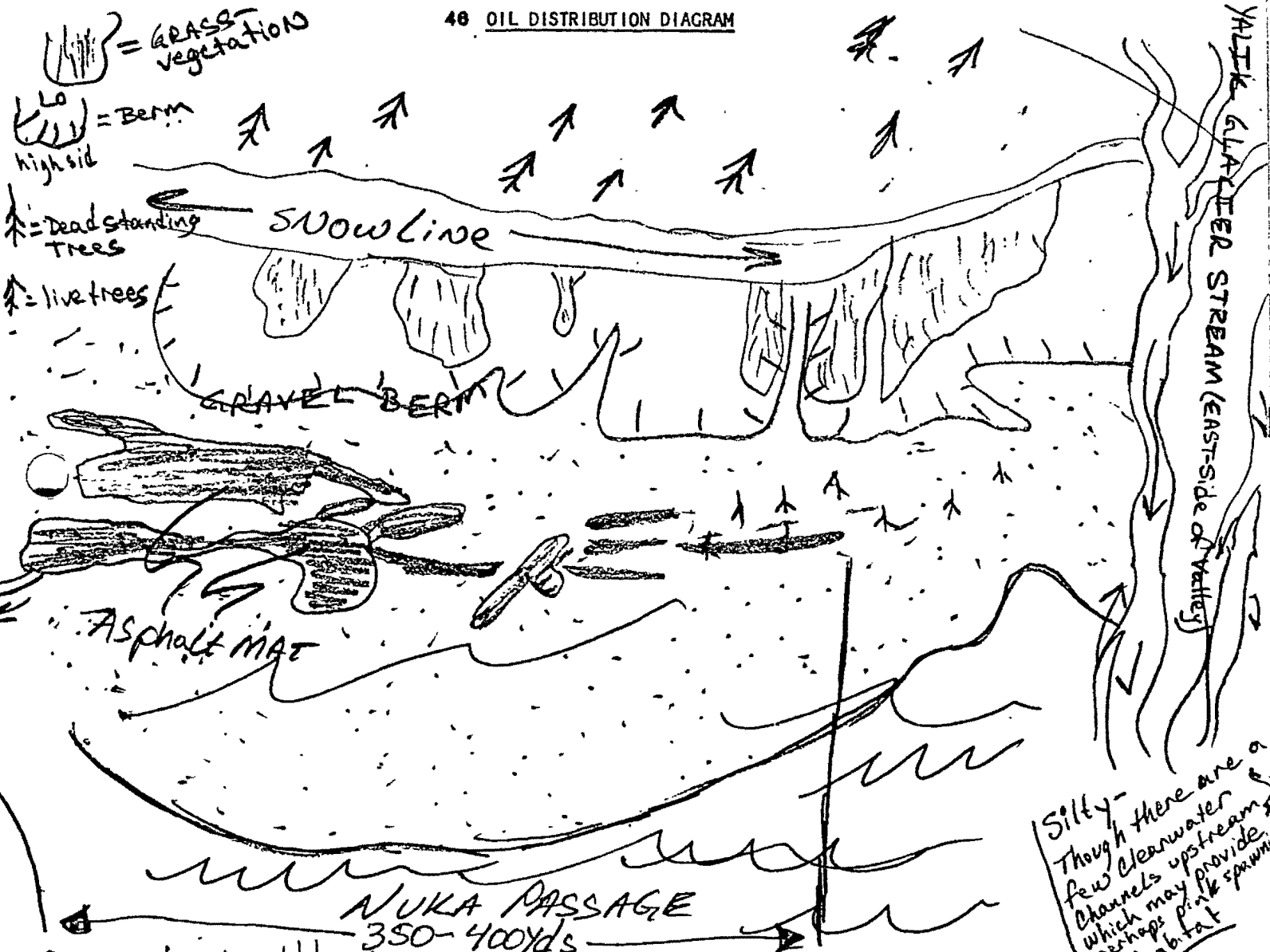
Eastern portion of beach

COMMENTS: Surveyed Tar/mat/Asphalt Area only. Asphalt area difficult, at first to detect from air (unlike 1989). Observed very hard mat of Asphalt of approximately the same proportions as 1989. Very Rough estimate -> Approx. 400 yds long x 10 to 30 yds wide, and narrower in some areas. Thickness of mat ranged from 1/2" to 5" thick. Upon breaking thru the "hard" outer surface we found friable and shiny oil saturated sediment (dark brown to black. Cobble cemented in place by asphalt. Portion becoming shiny and of lower viscosity. Portions of the mat have been lifted/displaced to parts unknown (Abrupt shelf-like edges. over

Y6-1

| FRAME(S) | DESCRIPTION |
|------------------------|---|
| 10, 11, 21, 22, 23, 24 | - Aerial of YALIK GLACIER beach - MAT most visible in photos 23 & 24 |
| 12 | - JACK REID (USCG) standing on asphalt mat (thin portion) |
| 13 | - Portion of mat where surface cobble & gravel has been torn loose / smoother surface than thicker portion of the mat |
| 14 | - 24" asphalt / saturated sediment mat |
| 15, 16, 17, 18 | Asphalt MAT / JACK REID (USCG) photos (15) Susan McLane photos (15, 16, 17, 18) |
| 19 | Depicts friable nature of mat once "busted up" - Brown Mousse |
| 20 | Depicts - portions of mat where waves have removed segments |

48 OIL DISTRIBUTION DIAGRAM



Comments cont'd: Chocolate brown mousse observed occasionally. Portions of thinner areas - where waves have removed surface cobble & gravel from oil surface - leaving the beach with a smoother more sorted look.

DDH
 MAT could be scooped up
 = Sample taken

= Photo frame # and shot direction.

* ANADSCAT Recommended

ACE 9961632-1451P/HF