

ADF&G MULTI-ASSESSMENT FORM
1991 GENERAL ENTRY CHECKLIST

Original form contained also
streams 10145
10140
10135.
Any way to break these
up?
DATE PRINTED: 06/21/91

STREAM#: 2322210130
SEGMENT: BB901

PAGE 9

LOCATION: NUKA BAY, BEAUTY BAY

SURVEY TYPE: 90 PRE SCREEN - BS

METHOD: GROUND

DATE: 04/08/90

TEAM RECORDER: HILL

START TIME: 0847

OBSERVERS: GLENN MCLANE

END TIME: 0915

OG/HAB DISCREPANCIES: -

AGENCY: FG

PHOTOS TAKEN: Y

STATION: 2322210130

ROLL#: ??

FRAME: -0-

One of these forms can be filled out for each stream. All info will be identical with the exception, possibly, of stream 10140. The oil sample was taken near 10140

VIDEO TAKEN: -

TAPE#: -0-

START: -0-

END: -0-

SAMPLES TAKEN: ~~Y~~ N

SAMPLE NUMBERS: ~~??~~ -0- -0-

-0- -0-

-0- -0-

oil type = TB
SOR

OIL IN STREAM BED: N

OIL ON BEACH BY MOUTH: N

Sample #: 7L

LPH/SM/SM-4/90-0850

SHORELINE TYPE: BEACH

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

GRAVEL 80 SAND 10 MUD/SILT -0- GRANULE -0-

ANADROMOUS FISH PRESENT: -

SPECIES: -0-

COUNT: -0-

-0-

-0-

-0-

-0-

-0-

-0-

-0-

-0-

Sample # should be LPH/SM/SM-4/90-0850 NOT 0950 = updated in all samples.

sample was taken at

232 22 10140
(90DDH060H) ✓

ACE 9962106 T&P

ADF&G MULTI-ASSESSMENT FORM
1991 GENERAL ENTRY CHECKLIST

Original from 00 channel all
streams 10115
10140
10135.
Any way to break there
up?
DATE PRINTED: 06/21/91

STREAM#: 2322210130
SEGMENT: BB901

PAGE 9

LOCATION: NUKA BAY, BEAUTY BAY

SURVEY TYPE: 90 PRE SCREEN - BS

METHOD: GROUND

DATE: 04/08/90

TEAM RECORDER: HILL

START TIME: 0847

OBSERVERS: GLENN MCLANE

END TIME: 0915

OG/HAB DISCREPANCIES: -

AGENCY: FG

PHOTOS TAKEN: Y

STATION: 2322210130

ROLL#: ??

FRAME: -0-

VIDEO TAKEN: -

TAPE#: -0-

START: -0-

END: -0-

SAMPLES TAKEN: ~~Y~~ N

SAMPLE NUMBERS: ~~??~~ -0- -0-

-0- -0-

-0- -0-

OIL IN STREAM BED: N

OVERALL OIL IMPACT: VL

OIL ON BEACH BY MOUTH: N

WAVE EXPOSURE: LOW

SHORELINE TYPE: BEACH

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

GRAVEL 80 SAND 10 MUD/SILT -0- GRANULE -0-

ANADROMOUS FISH PRESENT: -

SPECIES: -0-

COUNT: -0-

-0-

-0-

-0-

-0-

-0-

-0-

-0-

-0-

Sample was taken at

232 22 10140
(90DDH060H) ✓

ACE 9962106 TK/p

ADF&G MULTI-ASSESSMENT FORM
1991 OILING ENTRY CHECKLIST



PAGE 10

DATE PRINTED: 06/21/91

STREAM# : 2322210130
SEGMENT#: BB901

SURVEY TYPE : 90 PRE SCREEN - BS LOCATION: NUKA BAY, BEAUTY BAY
DATE: 04/08/90
TIMES: 0847 - 0915 TEAM RECORDER: HILL

10140 only.

-- OILING EXTENT --

SITE#	SITE TYPE	DEPTH (cm)	LENGTH (m)	WIDTH (m)	AREA (m)	%	THICK (cm)	PEN (cm)	OIL TYPE CODES
1	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	NOT AVAIL <i>TB</i>

COMMENTS:

OBSERVED APPROX 100 BALLS VERY BLACK OIL SATURATED SAND (½" X ½" TO 4" X 4"). THESE WERE FOUND ON SWASH BAR APPROXIMATELY 100 METERS FROM TREELINE AND APPROX ~~3/4~~ 1/2 MILE FROM RIDGE BASE TO THE SW. OBSERVED 2 MOOSE AND 1 COYOTE. MIKE TETRAU OF KENAI FJORDS NATIONAL PARK SAYS FINDING OIL AT THE BEAUTY BAY TIDE FLATS IS A HIT AND MISS SITUATION. DID NOT OBSERVE TARMAT THAT WAS OBSERVED HERE IN 1989. SITE 6-2 OF 1989 AFHS. SEE KFNS SURVEYS. SEE 1989 AFHS FOR MAP.

OIL ON STREAM BANKS: NO

OIL WITHIN 1 MILE OF STREAM: YES, ON BERM EAST OF CHANNEL

8/7/91 called Doug: site 1 oiling is at Stream 232 2210140 only. Delete from 232 2210130.



10145
10146
10135
10130

ASC NUMBER: 232-22
 LOCATION: KP, OC, West Arm Nuka Bay, Beauty Bay
 STREAM NAME:
 DIAK K-UNIT:
 USGS QUADRANGLE: Seldovia Cr 2
 SHORELINE TYPE: Beach
 WAVE EXPOSURE: Low

SEGMENT NUMBER: BB-901

YR CATALOGED:
 LATITUDE: 59-32-59
 LONGITUDE: 150-39-3
 LEGAL:
 ALL SEGMENTS:

ASC NUMBER:
 SURVEY TYPE: Pre-Screening
 METHOD: foot
 DATE: 4/8/90
 START TIME: 0847
 STOP TIME: 0915

TEAM RECORDER: Doug Hill
 OBSERVERS: Lee Glenn, Susan McHane
 AGENCY(IES): ADF+G
 PHOTOS TAKEN?
 Roll #: Frames:
 VIDEO TAKEN? Tape Number:
 Counter Start:

SAMPLES TAKEN? Yes
 SAMPLE I.D. NUMBERS: 1. LFG/BDY/sm-4/8/90-0850
 4. 5. 3. 6.

	LENGTH m	WIDTH m	M2	%	THICK cm	PEN cm	OIL TYPE
SITE 1	Input for: 232 22 10130 ✓ Duplicate for:						
SITE 2							
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL I

OIL IN STREAM 232 22 10135 EACH WITHIN 50M OF STREAM MOUTH?
 SUF 10140

Bedrock							
Boulder							
Cobble 10%							
Pebble 80%							

COMMENTS: Observed ~ 100 balls very black oil saturated sand (1/2" x 1/2" to 4" x 4"). These were found on swash bar approximately 100 meters from tree line and ~ 3/4 of mile from ridge base to the sw.
 Observed 2 moose and 1 coyote.
 Mike Tetrau of Kenai Fjords Natl. Park says finding oil at the Beauty Bay tide flats is a hit and miss situation.
 Did not observe tar mat that was observed here in 1989

* site 6-2 of 1989 AFHS
 see field log for further info
 see AFNS surveys OK
 see 1989 AFHS for MAP OK

ACE 9962108/Hs



10145
10146
10135
10130

ASC NUMBER: 232-22
 LOCATION: KP, OC, West Arm Nuka Bay, Beauty Bay
 STREAM NAME:
 DIAK K-UNIT:
 USGS QUADRANGLE: Seldovia Cr 2
 SHORELINE TYPE: Beach
 WAVE EXPOSURE: Low

SEGMENT NUMBER: BB-901
 LOCAL STREAM #:
 ALL SEGMENTS:

YR CATALOGED:
 LATITUDE: 59-32-59
 LONGITUDE: 150-39-3
 LEGAL:

ASC NUMBER:
 SURVEY TYPE: Pre-Screening
 METHOD: foot
 DATE: 4/8/90
 START TIME: 0847
 STOP TIME: 0915

TEAM RECORDER: Doug Hill
 OBSERVERS: Lee Glenn, Susan McLaughlin
 AGENCY(IES): ADF+G
 PHOTOS TAKEN?
 Roll #: Frames:
 VIDEO TAKEN? Tape Number:
 Counter Start:

SAMPLES TAKEN? Yes

SAMPLE I.D. NUMBERS: 1. LP6/BDN/5m-4/8/90-0850
 4. 5.

3.
6.

	LENGTH m	WIDTH m	M2	%	THICK cm	PEN cm	OIL TYPE
SITE 1							
SITE 2							
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT: VL

OIL IN STREAM CHANNEL?

OIL ON BEACH WITHIN 50M OF STREAM MOUTH?

SUBSTRATE

Bedrock	Granule
Boulder	Sand 10%
Cobble 10%	Silt
Pebble 80%	Veget.

SPECIES					
COUNT					

COMMENTS: Observed ~ 100 balls very black oil saturated sand (1/2" x 1/2" to 4" x 4"). These were found on swash bar approximately 100 meters from tree line and ~ 3/4 of mile from ridge base to the sw.
 Observed 2 moose and 1 coyote.
 Mike Tetrau of Kenai Fjords Natl. Park says finding oil at the Beauty Bay tide flats is a hit and miss situation.
 Did not observe tar mat that was observed here in 1989

* site G-2 of 1989 AFHS
 See field log for further info
 See AFNS surveys OK
 See 1989 AFHS for MAP OK

ACE 9962108 H/S

Pre-Screening
Seward Zone

ADF&G MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS SS DS TS AVS SCHA MMS PTA 2 REGION: PWS KP, CT K, AP

METHOD: Aerial Ground Boat

3 DATE: 4/8/90 15 HIGH TIDE TIMES: 0133 1132 21 TEAM RECORDER: Doug Hill

4 START TIME: 0847 16 HIGH TIDE HTS: 12.31 11.6 22 OBSERVERS: Susan McLane Lee Glenn

5 STOP TIME: 0915 17 LOW TIDE TIMES: 0740 11940 23 AGENCY: ADF&G

6 SEGMENT #: BB-901 18 LOW TIDE HTS: 0.3 10.6 24 PHOTOS TAKEN: Y N

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

8 K-UNIT: _____ Ebb Slack Flood Slack 25 VIDEO TAKEN: Y N TAPE#: _____

9 STAT AREA: 232-22 20 USCG QUAD: _____ Start: _____ End: _____

10 LAT: 59-32-59 11 LONG: 150-39-03 26 SAMPLES TAKEN? Y N Number

12 SOURCE: Map Loran OK 011 LP6/DDH/SM-4/8/90-0950

13 LOCATION: KP, OC, West Arm Nuka Bay, Beauty Bay Sediment _____

14 DESCRIPTION: Head of Bay 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 Tar Asphalt Sticky Stain

32 OILED DEBRIS? Y N

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

34 WAVE EXPOSURE: High Moderate Low

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

36 CATALOGED ANAD. FISH SREAM? Y N

37 CATALOG #: 232-22-10140
10135
10130

38 STREAM NAME: _____

39 OIL IN STREAM BED? Y N

40 OIL ON STREAM BANKS? Y N

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

42 OIL WITHIN 1 MILE OF STREAM? Y N

where on beam to east of channel

43 ANADROMOUS FISH PRESENT? Y N

44 ANADROMOUS FISH OBSERVATION

Species	Aerial	Ground

COMMENTS: see "MAD" transfer sheet

ACE 9962109 -15

10145
10146
10135
10130

ASC NUMBER: 232-22-¹⁰¹⁴⁵
 LOCATION: KP, OC, West Arm Nuka Bay, Beauty Bay
 STREAM NAME:
 DIAK K-UNIT: .
 UGS QUADRANGLE: Seldovia C-2
 SHORELINE TYPE: Beach
 WAVE EXPOSURE: Low

SEGMENT NUMBER: BB-901
 YR CATALOGED:
 LATITUDE: 59-32-59
 LONGITUDE: 150-39-3
 LEGAL:
 ALL SEGMENTS:

ASC NUMBER:
 SURVEY TYPE: Pre-Screening
 METHOD: foot
 DATE: 4/8/90
 START TIME: 0847
 STOP TIME: 0915

TEAM RECORDER: Doug Hill
 OBSERVERS: Lee Glenn, Susan McLane
 AGENCY(IES): ADF+G
 PHOTOS TAKEN?
 Roll #: Frames:
 VIDEO TAKEN? Tape Number:
 Counter Start:

SAMPLES TAKEN? Yes

SAMPLE I.D. NUMBERS: 1. Lpg/box/sm-4/8/90-950 2. 3.
 4. 5. 6.

	LENGTH m	WIDTH m	M2	%	THICK cm	PEN cm	OIL TYPE
SITE 1							
SITE 2							
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT: VL

OIL IN STREAM CHANNEL? N
SUBSTRATE

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

OIL ON BEACH WITHIN 50M OF STREAM MOUTH? N

SPECIES					
COUNT					

COMMENTS: Observed ~ 100 balls very black oil saturated sand (1/2" x 1/2" to 4" x 4"). These were found on swash bar approximately 100 meters from tideline and ~ 1/4 mile from ridge base to the SW.
 Observed 2 moose and 1 coyote.
 Mike Tetrau of Kenai Fjords Nat'l Park says finding oil at the Beauty Bay tide flats is a hit and miss situation.
 Did not observe tarball that was observed here in 1989

* see 1989 AFHS for map
 * site G-2 of 1989 AFHS
 * see 90 field log for further info
 * see KFNS surveys

ACE 9962110 HB

Pre-Screening
Seward Zone

ADF&G MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS SS DS TS AVS SCHA MMS PTA 2 REGION: PWS KP, CT K, AP

METHOD: Aerial Ground Boat

3 DATE: 4/8/90 15 HIGH TIDE TIMES: 0133 1132 21 TEAM RECORDER: Doug Hill

4 START TIME: 0847 16 HIGH TIDE HTS: 12.31 11.6 22 OBSERVERS: Susan McLane Lee Glenn

6 STOP TIME: 0915 17 LOW TIDE TIMES: 0740 1940 23 AGENCY: ADF&G

6 SEGMENT #: BB-901 18 LOW TIDE HTS: 0.3 10.6 24 PHOTOS TAKEN: N

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

8 K-UNIT: _____ Ebb Slack Flood Slack 25 VIDEO TAKEN: Y N TAPE#: _____

9 STAT AREA: 232-22 20 USCG QUAD: _____ Start: _____ End: _____

10 LAT: 59-32-59 11 LONG: 150-39-03 26 SAMPLES TAKEN? N Number

12 SOURCE: Map Loran (OIL) LAG/DDH/SM-4/8/90-0950

13 LOCATION: KP, OC, West Arm Nuka Bay, Beauty Bay Sediment _____

14 DESCRIPTION: Head of Bay 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 Tar Asphalt Sticky Stain

32 OILED DEBRIS? Y

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

34 WAVE EXPOSURE: High Moderate Low

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

36 CATALOGED ANAD. FISH SREAM? Y N

37 CATALOG #: 232-22-10145
10140
10130

38 STREAM NAME: _____

39 OIL IN STREAM BED? Y

40 OIL ON STREAM BANKS? Y

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

42 OIL WITHIN 1 MILE OF STREAM? N

43 ANADROMOUS FISH PRESENT? Y ? N

44 ANADROMOUS FISH OBSERVATION
Species Aerial Ground

Where On beam to east of Channel

COMMENTS: see "MAD" transfer sheet

FRAME(S)

DESCRIPTION

<u>FRAME(S)</u>	<u>DESCRIPTION</u>

46 OIL DISTRIBUTION DIAGRAM

= Sample taken
= Photo frame # and
shot direction.

ACE 9962112 -15

ADF&G MULTI-ASSESSMENT FORM
1991 GENERAL ENTRY CHECKLIST



10145 } can we
10140 } break them
10135 } up?
10130 }

STREAM#: 2322210130
SEGMENT: BB901

PAGE 10

DATE PRINTED: 06/21/91

LOCATION: NUKA BAY, BEAUTY BAY

SURVEY TYPE: 90 PRE SCREEN - SS

METHOD: GROUND

DATE: 04/14/90

TEAM RECORDER: HILL

START TIME: 1244

OBSERVERS: MCLANE REID

END TIME: 1308

OG/HAB DISCREPANCIES: -

AGENCY: FG

PHOTOS TAKEN: Y

STATION: 2322210130

ROLL#: 90DDH005H

FRAME: 2-3

VIDEO TAKEN: N

TAPE#: -0-

START: -0-

END: -0-

one of these forms
can be filled out for
each stream listed in
above right-hand corner
All info will be
identical.

SAMPLES TAKEN: ~~2~~ ¹ ~~ok~~

~~Sample taken on 4/8/90 0950!~~

SAMPLE NUMBERS: ~~2~~ ¹ ~~ok~~ - 0 -

-0-

-0-

-0-

-0-

OIL IN STREAM BED: N

OVERALL

OIL ON BEACH BY MOUTH: N

WAVE EX.

SHORELINE TYPE: BEACH

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

GRAVEL 80 SAND 10 MUD/SILT -0- GRANULE -0-

ANADROMOUS FISH PRESENT: N

SPECIES: -0-

COUNT: -0-

-0-

-0-

-0-

-0-

-0-

-0-

-0-

-0-

ADF&G MULTI-ASSESSMENT FORM
1991 GENERAL ENTRY CHECKLIST



10145 } can we
10140 } break after
10135 } up?
10130 }

STREAM#: 2322210130
SEGMENT: BB901

PAGE 10

DATE PRINTED: 06/21/91

LOCATION: NUKA BAY, BEAUTY BAY

SURVEY TYPE: 90 PRE SCREEN - SS

METHOD: GROUND

DATE: 04/14/90

TEAM RECORDER: HILL

START TIME: 1244

OBSERVERS: MCLANE REID

END TIME: 1308

AGENCY: FG

OG/HAB DISCREPANCIES: -

PHOTOS TAKEN: Y

STATION: 2322210130

ROLL#: 90DDH005H

FRAME: 2-3

VIDEO TAKEN: N

TAPE#: -0-

START: -0-

END: -0-

SAMPLES TAKEN: *Nok*

Sample taken on 4/18/90 0950!

SAMPLE NUMBERS: *22 - 0 -*

-0-
-0-
-0-

OIL IN STREAM BED: N

OVERALL OIL IMPACT: N

OIL ON BEACH BY MOUTH: N

WAVE EXPOSURE: LOW

SHORELINE TYPE: BEACH

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

GRAVEL 80 SAND 10 MUD/SILT -0- GRANULE -0-

ANADROMOUS FISH PRESENT: N

SPECIES: -0-

COUNT: -0-

-0-
-0-
-0-
-0-
-0-

-0-
-0-
-0-
-0-
-0-

ADF&G MULTI-ASSESSMENT FORM
1991 OILING ENTRY CHECKLIST

PAGE 11

DATE PRINTED: 06/21/91

STREAM# : 2322210130
SEGMENT#: BB901

SURVEY TYPE : 90 PRE SCREEN - SS LOCATION: NUKA BAY, BEAUTY BAY
DATE: 04/14/90
TIMES: 1244 - 1308 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-	-0-	-0-	-0-	-0-	-0-	-0-	NOT AVAIL -

COMMENTS:

OIL OBSERVED ON BRIEF SURVEY OF 4/8/90. NO OIL OBSERVED ON MORE THOROUGH SURVEY OF 4/14/90. SEWARD - KEANI FJORD NATIONAL PARK SURVEY - FOUND NO OIL ON RECENT SURVEY (PERS. COMM. W/MIKE TETREAU - KNFP). BEAUTY BAY TIDE FLATS IS A HIT AND MISS SITUATION - SOMETIMES OIL IS FOUND SOMETIME NOT - MIKE TETREAU AGREED. NO CLEANUP RECOMMENDED.
OIL ON STREAM BANKS: YES
OIL WITHIN 1 MILE OF STREAM: YES, TIDE FLAT - 400 YARDS NE OF STREAM # 2322210145

10145
10140
10135
10130

ASC NUMBER: 232-22-
LOCATION: KPOC, West Arm Noka Bay, Beauty Bay
STREAM NAME:
MODIAK K-UNIT:
GS QUADRANGLE: Seldovia C-2
SHORELINE TYPE: Beach
WAVE EXPOSURE: Low
SEGMENT NUMBER: BB-901
YR CATALOGED:
LATITUDE: 59 32 59
LONGITUDE: 150 39 3
LEGAL:
ALL SEGMENTS:

ASC NUMBER:
SURVEY TYPE: Pre-screening
METHOD: Foot
DATE: 4/14/90
START TIME: 1244
STOP TIME: 1308

TEAM RECORDER: Doug Hill
OBSERVERS: Susan McLaney, Jack Reid
AGENCY(IES): ADF46, USCG
PHOTOS TAKEN? Yes
Roll #: 9100H005 Frames: 2,3
VIDEO TAKEN? NO Tape Number:
Counter Start:

SAMPLES TAKEN? Sample taken on 4/8/90
SAMPLE I.D. NUMBERS: 1.
2.
3.
4.
5.
6.

	LENGTH m	WIDTH m	M2	%	THICK cm	PEN cm	OIL TYPE
SITE 1							
SITE 2							
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT: None observed on this trip

OIL IN STREAM CHANNEL? No
SUBSTRATE

OIL ON BEACH WITHIN 50M OF STREAM MOUTH? No

Bedrock	Granule
Boulder	Sand 10%
Cobble 10%	Silt
Pebble 80%	Veget.

SPECIES					
COUNT					

COMMENTS: SEE 90 MAD form comments

Input:
23222 10130
Duplicate for:
232 22 10135
10140
10145

ACE 9962115 +k

GROUP A

ADF&G MULTI-ASSESSMENT DATA FORM

Pre-Screening

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

METHOD: Aerial Ground Boat

3 DATE: 4-14-90 15 HIGH TIDE TIMES: 17061 21 TEAM RECORDER: Doug Hill
14 START TIME: 1244 16 HIGH TIDE HTS: 9.61 22 OBSERVERS: S. Melton Jack Reid
5 STOP TIME: 1308 17 LOW TIDE TIMES: 10531 23 AGENCY: ADF&G USCG

6 SEGMENT #: BB901 18 LOW TIDE HTS: 0.21 24 PHOTOS TAKEN: Y N
7 STATION #: _____ 19 TIDE HT AT SURVEY: LOW Roll #: 90-104-005 Frame: 2, 3

8 K-UNIT: _____ Ebb Slack Flood Slack 25 VIDEO TAKEN: Y N TAPE#: _____
9 STAT AREA: 232-22 20 USCG QUAD: Soldavia C-2 Start: _____ End: _____

10 LAT: N 59° 30.8 11 LONG: W 150° 48.7 26 SAMPLES TAKEN? Y N Number 10145
10140
10135
10130

12 SOURCE: Map Loran 27 SURFACE COVERAGE: _____
13 LOCATION: AFS-232-22 10145
10140
10135
10130
Sediment Beauty Bay - AFA/ADH/SM -
V/S/06-08/5/1 DDH

14 DESCRIPTION: Beauty Bay 28 SURFACE THICKNESS: _____
Biological _____
Water _____

EXTENT OF OIL

	SHORELINE				STREAM			
	L	W	M ²	%	L	W	M ²	%
27 SURFACE COVERAGE				4				
28 SURFACE THICKNESS								
29 PENETRATION								

30 OVERALL OIL IMPACT: N VL L M H

31 OIL TYPE: Pooled Mousse Tar Asphalt Sticky Stain

32 OILED DEBRIS? Y N

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

34 WAVE EXPOSURE: High Moderate Low

35 SUBSTRATE TYPE: Bedrock _____ Boulder _____ Cobble 10%
Gravel 80% Sand 10% Mud/silt _____

36 CATALOGED ANAD. FISH SREAM? Y N

37 CATALOG #: 232-22-10145
10140
10135
10130

38 STREAM NAME: Beauty Bay

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: Tide Flat - 400 yds NE of Stream # 232-22-10145

43 ANADROMOUS FISH PRESENT? Y N

44 ANADROMOUS FISH OBSERVATION
Species Aerial Ground

ACE 9962116 →

COMMENTS: Oil observed on brief survey of 4/8/90. No oil observed on more thorough survey of 4/14/90.

{ Seaward-kenai Fjord National Park Survey - found No oil on recent survey (pers. comm. w/ Mike Tetreau-KFNP). Beauty Bay Tide flats is a hit and miss situation - sometimes oil is found sometimes not - Mike Tetreau

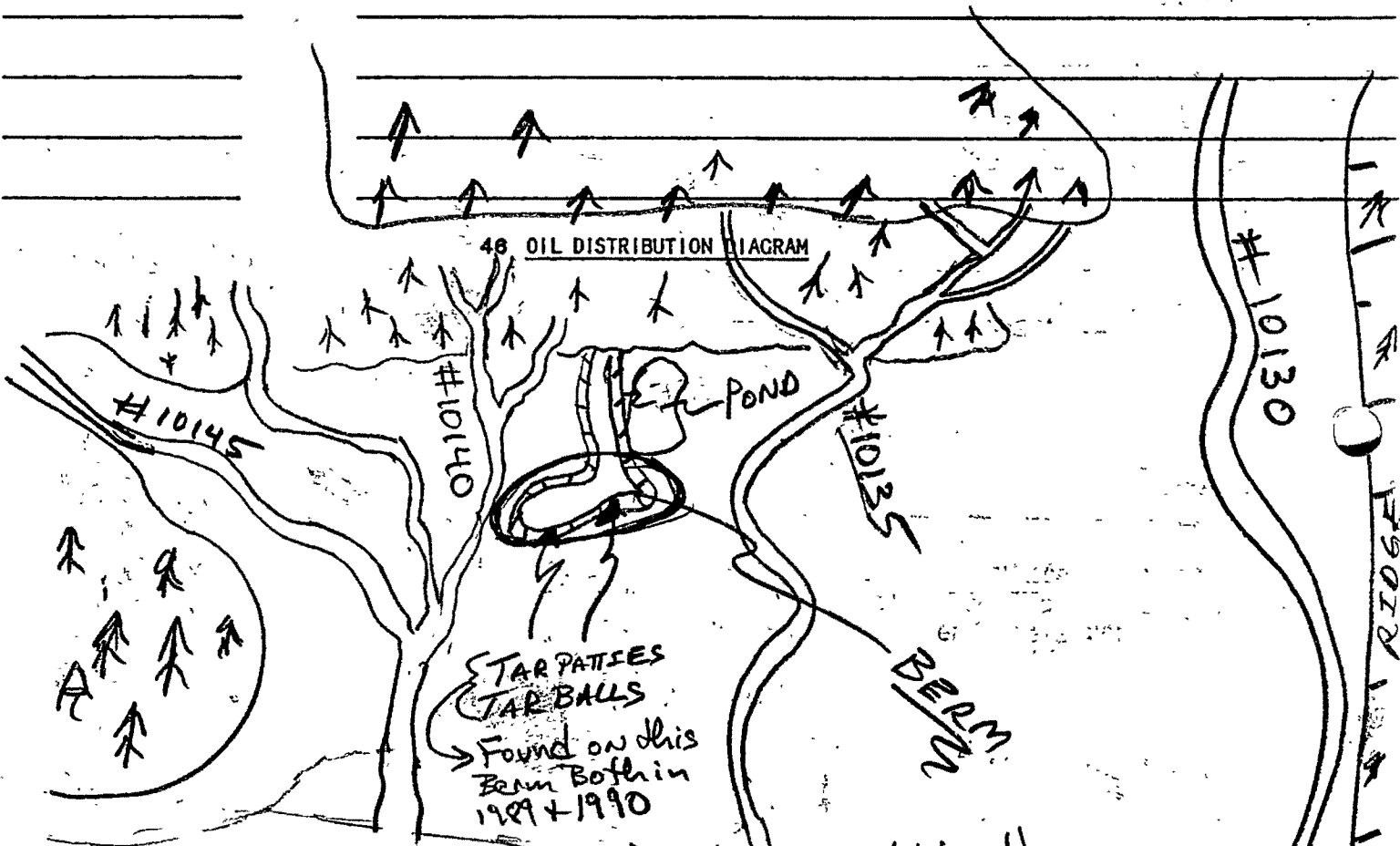
FRAME(S)

DESCRIPTION

2,3

Aerials of Beauty Bay Intertidal Area
Mouths of streams

STAT. Area 232-22



1990 - Observed approx. 100 (at least) tar balls on the seaward side of the barge beam → size 1/2" x 1/2" to 4" x 4"

oil sample taken in 1990.

Cleanup - No Cleanup Recommended

= Sample taken

= Photo frame # and shot direction.

ACE 9962117-145/146

ACE 1955436

ADF&G MULTI-ASSESSMENT FORM
1991 GENERAL ENTRY CHECKLIST

STREAM#: 2322210130
SEGMENT: BB901

OK
pls add to oil 91 site 1, rest blank.
DOH 10/4/91
DATE PRINTED: 08/14/91

PAGE 18

LOCATION: NUKA BAY, BEAUTY BAY

SURVEY TYPE: 89 AFHS - BS

METHOD: GROUND
Foot

STREAM NOT SURVEYED IN 1991

DATE: 08/04/89

TEAM RECORDER: HILL

START TIME: 1010
END TIME: 1110

OBSERVERS: RANDALL

TIDES: *Slack, Flood*
OG/HAB DISCREPANCIES:

AGENCY: FG

PHOTOS TAKEN: Y

STATION: 2322210130

ROLL#: 89RDR008H
FRAME: 13-17

VIDEO TAKEN: *N*
START:

TAPE#:
END:

SAMPLES TAKEN: *Y (10) Y*

SAMPLE NUMBERS: *we have no such sample.*

~~DOH/RDR-8/4/89-1030~~
DOH/RDR-8/4/89-1030 - taken w/in
1/2 mile of #10130

OIL IN STREAM BED: *No*

OIL ON BEACH BY MOUTH: *N*

SHORELINE TYPE: BEACH TIDE FLATS

SUBSTRATE TYPE: BEDROCK

BOULDER

COBBLE *10*

VEGETAT

GRAVEL *80*

SAND *10*

MUD/SILT

GRANULE

ANADROMOUS FISH PRESENT: *N*

SPECIES: *- 0 -*

COUNT: *- 0 -*

*Sample Taken nearest to stream #10145 (taken from bank of 10145)
- Add duplicate of Comments to ALL Streams.
- Oiling DATA goes with 10145
8/29/91
DOH*

Doing, pls note which site in the comments corresponds to which stream.

ADF&G MULTI-ASSESSMENT FORM
1991 GENERAL ENTRY CHECKLIST

STREAM#: 2322210130
SEGMENT: BB901

OK
pls add to oil 91 site 1, rest blank.
DOH 10/4/91
DATE PRINTED: 08/14/91

PAGE 18

LOCATION: NUKA BAY, BEAUTY BAY

SURVEY TYPE: 89 AFHS - BS

METHOD: GROUND

STREAM NOT SURVEYED IN 1991

DATE: 08/04/89

TEAM RECORDER: HILL

START TIME: 1010

OBSERVERS: RANDALL

END TIME: 1110

TIDES: *Stack, Flood*
OG/HAB DISCREPANCIES:

AGENCY: FG

PHOTOS TAKEN: Y

STATION: 2322210130

ROLL#: 89RDR008H
FRAME: 13-17

VIDEO TAKEN: *N*
START:

TAPE#:
END:

SAMPLES TAKEN: *YOY*

SAMPLE NUMBERS: *we have no such sample.*

~~DOH/RDR-8/4/89-1030~~

DOH/RDR-8/4/89-1030 - taken w/in 2 miles of #10130

OIL IN STREAM BED: *NO*

OVERALL OIL IMPACT: *VVL*

OIL ON BEACH BY MOUTH: *N*

WAVE EXPOSURE: LOW

SHORELINE TYPE: BEACH TIDE FLATS

SUBSTRATE TYPE: BEDROCK BOULDER COBBLE *10* VEGETAT

GRAVEL *80* SAND *10* MUD/SILT GRANULE

ANADROMOUS FISH PRESENT: *N*

SPECIES: *- 0 -* COUNT: *- 0 -*

Doag, pls note which site in the comments corresponds to which stream.

ADF&G MULTI-ASSESSMENT FORM
1991 GENERAL ENTRY CHECKLIST

No Survey in 91
pts add to 0191
Site 1, rest blank
OK
★

STREAM#: 2322210135
SEGMENT: BB901

DATA
10/4/91

DATE PRINTED: 08/14/91

PAGE 19

LOCATION: NUKA BAY, BEAUTY BAY, HEAD

SURVEY TYPE: 89 AFHS - BS

METHOD: GROUND Foot

DATE: 08/04/89

TEAM RECORDER: HILL

START TIME: 1010
END TIME: 1110

OBSERVERS: RANDALL

TIDES: Slack Flood
OG/HAB DISCREPANCIES:

AGENCY: FG

PHOTOS TAKEN: Y

STATION: 2322210135

ROLL#: 89RDR008H
FRAME: 13-17

VIDEO TAKEN: N
START: TAPE#: END:

SAMPLES TAKEN: Y

SAMPLE NUMBERS: 22 DDH/RDR-8/4/89-1030
sample taken w/in 1 mile
of stream 10135

OIL IN STREAM BED: N

OVERALL OIL IMPACT: VVL

OIL ON BEACH BY MOUTH: N

WAVE EXPOSURE: LOW

SHORELINE TYPE: BEACH TIDE FLATS

SUBSTRATE TYPE: BEDROCK BOULDER COBBLE 10 VEGETAT
GRAVEL 80 SAND 10 MUD/SILT GRANULE

ANADROMOUS FISH PRESENT: N

SPECIES: -0-

COUNT: -0-

ADF&G MULTI-ASSESSMENT FORM
1991 GENERAL ENTRY CHECKLIST

OK 

STREAM#: 2322210140
SEGMENT: BB901

DDH
10/9/91

DATE PRINTED: 08/14/91

PAGE 20

LOCATION: NUKA BAY, BEAUTY BAY, HEAD

SURVEY TYPE: 89 AFHS - BS

METHOD: GROUND *FOOT*

DATE: 08/04/89

TEAM RECORDER: HILL

START TIME: 1010
END TIME: 1110

OBSERVERS: RANDALL

TIDES: *SLACK, FLOOD*
OG/HAB DISCREPANCIES:

AGENCY: FG

PHOTOS TAKEN: Y

STATION: 2322210140

ROLL#: 89RDR008H
FRAME: 13-17

VIDEO TAKEN: *N* TAPE#:
START: END:

SAMPLES TAKEN: Y

SAMPLE NUMBERS: ~~22~~ *DDH/RDR-8/4/89-1030*
sample taken from shore/bank
of 10140

OIL IN STREAM BED: *N*

OVERALL OIL IMPACT: *YL*

OIL ON BEACH BY MOUTH: *Y*

WAVE EXPOSURE: LOW

SHORELINE TYPE: BEACH TIDE FLATS

SUBSTRATE TYPE: BEDROCK BOULDER COBBLE 10 VEGETAT
GRAVEL 80 SAND 10 MUD/SILT GRANULE

ANADROMOUS FISH PRESENT: ~~Y~~ *N*

SPECIES: *Pink*

COUNT: *Wych's trellus*
fish on 8/4/89
89

ACE 9962095 *HIS*

ADF&G MULTI-ASSESSMENT FORM
1991 OILING ENTRY CHECKLIST

DATA 10/4/91

OK

PAGE 24

DATE PRINTED: 08/14/91

STREAM# : 2322210140
SEGMENT#: BB901

SURVEY TYPE : 89AFHS - BS LOCATION: NUKA BAY, BEAUTY BAY, HEAD
DATE: 08/04/89
TIMES: 1010 - 1110 TEAM RECORDER: HILL

-- OILING EXTENT --

SITE#	SITE TYPE	DEPTH (cm)	LENGTH (m)	WIDTH (m)	AREA (m)	%	THICK (cm)	PEN (cm)	OIL TYPE CODES
1			8.7	8.7	76	95	<20	<10	MS AP TARMA
2			960	.5	480	10	<1	<1	ST CT CV

COMMENTS:

SITE 6-2. SITE #2 - OIL OBSERVED SPORADICALLY OVER ~6/10 OF A MILE (~960M). MUCH OF THIS OIL FOUND AS A LIGHT COVER JUST BENEATH SURFACE - SURFACE CLEAN. 200 PINKS OBSERVED ON 8/22/89 IN STREAM #10145 (FERRUM CREEK). EAST SIDE STREAM TOO SILTY TO OBSERVE FISH (NUKA RIVER). FLEW UPSTREAM TO CLEAR WATER STREAM ON EAST BANK. STREAM 10135 AND 10140 DRY. SITE #1 - AREA LOGGED REPRESENTS SUM TOTAL OF 30 TARMATS. 287 CUBIC YARDS OF OILED MATERIAL WERE REMOVED FROM THE BEAUTY BAY TIDE FLATS FROM 5/12/89 THRU 5/30/89. A 200' X 4' BAND OF MOUSSE WAS OBSERVED ON 7/27/89. ROLL OF FILM BY DOUG WAS SHREDDED BY PHOTO PROCESSOR.

found at the west end of site #2

from the west shore of stream 10145 heading east.

★
Comments
DATA
10/4/91

ADF&G MULTI-ASSESSMENT FORM
1991 GENERAL ENTRY CHECKLIST

OK 

STREAM#: 2322210145
SEGMENT: BB901

PAGE 21

DATE PRINTED: 08/14/91

LOCATION: NUKA BAY, BEAUTY BAY, HEAD

SURVEY TYPE: 89 AFHS - BS

METHOD: GROUND FOOT

DATE: 08/04/89

TEAM RECORDER: HILL

START TIME: 1010

OBSERVERS: RANDALL

END TIME: 1110

TIDES: Slack Flood
OG/HAB DISCREPANCIES:

AGENCY: FG

PHOTOS TAKEN: Y

STATION: 2322210145

ROLL#: 89RDR008H
FRAME: 13-17

VIDEO TAKEN: N TAPE#:
START: END:

SAMPLES TAKEN: Y

SAMPLE NUMBERS: ~~82~~ DDH/RDR - 8/4/89 - 1030 - taken
w/in one mile of stream
#10145.

OIL IN STREAM BED: N

OVERALL OIL IMPACT:

OIL ON BEACH BY MOUTH: N

WAVE EXPOSURE: LOW

SHORELINE TYPE: BEACH TIDE FLATS

SUBSTRATE TYPE: BEDROCK BOULDER COBBLE 10 VEGETAT
GRAVEL 80 SAND 10 MUD/SILT GRANULE

ANADROMOUS FISH PRESENT: ~~Y~~ N

SPECIES:

COUNT: ~~200~~

please enter 1 form for each stream, but we oiling extent + comments only for 232-20-10140 (Doug 8/7/91)

ASC NUMBER: 232-20-10130
 LOCATION: Nuka Bay-West Arm-Beauty Bay-Head of Bay
 EAM NAME: SEE Comments section
 KODIAK K-UNIT:
 US QUADRANGLE: Seldovia C-2
 SHORELINE TYPE: Beach-Tide flats
 WAVE EXPOSURE: Low

SEGMENT NUMBER: 88-901

YR CATALOGED: 88

LATITUDE:
 LONGITUDE:
 LEGAL: See Comments section

ALL SEGMENTS:

ASC NUMBER:
 SURVEY TYPE: 89
 METHOD: Ground
 DATE: 8/4/89
 START TIME: 1010
 STOP TIME: 1110

TEAM RECORDER: Doug Hill
 OBSERVERS: Rick Randall

AGENCY (IES): ADFG

PHOTOS TAKEN? Photoprocessor shredded DOH film
 Roll #: RDR-8 Frames: 13, 14, 15, 16, 17
 VIDEO TAKEN? Tape Number:
 Counter Start:

SAMPLES TAKEN?
 SAMPLE I.D. NUMBERS: 1. DOH/RDR-8/4/89-1030
 2. *Do you have COC?*
 3. *which stream?*
 4. *ALL, but nearest 10145*
 5.
 6.

	LENGTH m	WIDTH m	M2	%	THICK cm	PEN cm	OIL TYPE
SITE 1	8.7	8.7	76	95	<20	<10	MS withing AP, tar mats <i>stream 140 only</i>
SITE 2	960	.5	480	10	<1	<1	<i>stream 140 only</i>
SITE 3							
SITE 4							
SITE 5							

The COC is in sleeve at front of this binder.

8/29/91 Doug

OVERALL OIL IMPACT: VL

OIL IN STREAM CHANNEL? N

OIL OF STREAM MOUTH? Y

Bedrock	Granule	SPECI	COUNT
Boulder	Sand 10		
Cobble 10	Silt		
Pebble 80	Veget.		

COMMENTS: For separate data entry purposes

Stream #	LAT.	Long.	Leg
10130	59 33 22	150 38 27	S 7
10135	59 33 15	150 38 32	S 7S 8W21
10140	59 32 59	150 39 03	S 7S 8W21
10145	59 32 52	150 39 36	S 7S 8W28 - Ferrum Creek

ACE 9962098 H/S

Site 2 - Oil observed sporadically over approx. 6/10 (or 960m) of a mile. Much of this oil found as a light cover just beneath surface - surface clean.

* 600 plaques observed on 8/22/89 in stream # 10145 (Ferrum Crk)
 - East side stream too silty to observe fish (Nuka River) - Flew upstream to clear water stream on east bank. Streams 10135 + 10140 dry.

Site 1 - area logged represents sum total of 30 tar mats.
 - 287 cu yds of oiled material were removed from the Beauty Bay Tide flats from 5/12/89 thru 5/30/89. A 200-ft x 4ft band of mousse was observed on 7/27/89

please enter 1 form for each stream, but we oiling extent + comments only for 232-20-10140 (Doug 8/7/89)

ASC NUMBER: 232-20-10130
 LOCATION: Nuka Bay-west Arm-Beauty Bay-Head of Bay
 EAM NAME: SEE comments section
 NODIAK K-UNIT:
 US QUADRANGLE: Seldovia C-2
 SHORELINE TYPE: Beach-Tide flats
 WAVE EXPOSURE: Low

SEGMENT NUMBER: 88-901
 YR CATALOGED:
 LATITUDE:
 LONGITUDE:
 LEGAL:

ALL SEGMENTS:

ASC NUMBER:
 SURVEY TYPE: 89
 METHOD: Ground
 DATE: 8/4/89
 START TIME: 1010
 STOP TIME: 1110

TEAM RECORDER: Doug Hill
 OBSERVERS: Rick Randall
 AGENCY(IES): ADF46

PHOTOS TAKEN? Photoprocessor shredded DDM film
 Roll #: ADR-8 Frames: 13, 14, 15, 16, 17
 VIDEO TAKEN? Tape Number:
 Counter Start:

SAMPLES TAKEN?
 SAMPLE I.D. NUMBERS: 1. DDM/RDR-8/4/89-1030
 2. *Do not have CDC? which stream?*
 3. *ALL, but nearest 10145*
 4.
 5.
 6.

	LENGTH m	WIDTH m	M2	%	THICK cm	PEN cm	OIL TYPE
SITE 1	8.7	8.7	76	95	<20	<10	MS withing AP, tar mat. <i>stream 140 only</i>
SITE 2	960	.5	480	10	<1	<1	<i>stream 140 only</i>
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT: VL

OIL IN STREAM CHANNEL? N
 OIL ON BEACH WITHIN 50M OF STREAM MOUTH? Y

SUBSTRATE

Bedrock	Granule
Boulder	Sand 10
Cobble 10	Silt
Pebble 80	Veget.

SPECIES					
	<i>Plates</i>				
COUNT	<i>200</i>				

COMMENTS: *For separate DDM & Benthic purposes*

Stream #	LAT.	Long.	Legal
10130	59 33 22	150 38 27	S 75 8W21 - Nuka River
10135	59 33 15	150 38 32	S 75 8W21
10140	59 32 59	150 39 03	S 75 8W21
10145	59 32 52	150 39 36	S 75 8W28 - Ferrum Creek

ACE 9962098 H/S

Site 2 - Oil observed sporadically over approx. 6/10 (or 960m) of a mile. Much of this oil found as a light cover just beneath surface - surface clean.

* 200 plates observed on 8/22/89 in stream # 10145 (Ferrum Crk)
 - East side stream too silty to observe fish (Nuka River) - Flew upstream to clear water stream on east bank. Streams 10135 + 10140 dry.

Site 1 - area logged represents sum total of 30 tar mats.
 - 287 cu yds of oiled material were removed from the Beauty Bay Tide flats from 5/12/89 thru 5/30/89. A 200-ft x 4ft band of mousse was observed on 7/27/89

Dupr

FISH HABITAT ASSESSMENT FORM

NUKA BAY - WEST ARM - HEAD OF BAY - BEAUTY BAY

'REGION: 'PWS KP, CI 'K, AP 'OBSERVER(S) Doug Hill, Rick RANDALL

'SITE NO. 6-2 'AERIAL PHOTO NO. _____ 'CAT NO. 232-22 1045
10140
10135
10130

'STREAM NAME _____ 'LAT _____ 'LONG _____

'DATE 8/4/89 'TIME 1010 'TIDE: Low slack Flood High slack Ebb
8/22/89 → 1600

'CATALOGED ANADROMOUS STREAM? Y N 'ANAD. FISH FOUND? Y N

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

'OIL SAMPLES TAKEN? Y N 'ID NOS. Beauty Bay-DDH/RDR-8/4/89-1030

'35 RR PICTURES TAKEN? Y N 'ROLL NO(S). RDR-8

'EXPOSURE NO.	'DESCRIPTION
<u>13</u>	<u>Tar mat (Mousse Pad) on Beauty Beach</u>
<u>14</u>	<u>Same as 13.</u>
<u>15</u>	<u>" " " " " "</u>
<u>16</u>	<u>" " " " " "</u>
<u>17</u>	<u>Collecting Sample (oil)</u>

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

'DESCRIPTION: _____
ACE 9962099
ACE 7380282

ANADROMOUS FISH OBSERVATIONS

PINK CHUM RED KING COHO DOLLY

28	Aerial	200						
29	Ground	Ø						

30 COMMENTS: 200 pinks observed on 8/22/89 survey ⇒ Observed in West Side Channel (10145)

← EAST Side Stream too Silty to observe fish - flow upstream to clearwater stream on EAST bank.

OIL OBSERVATIONS

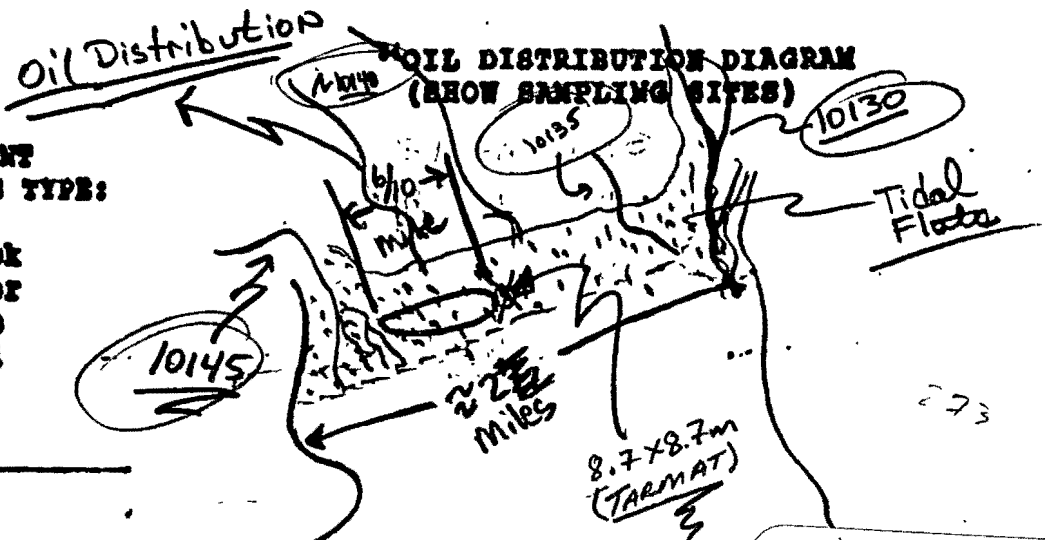
EXTENT OF OIL:

Site 6/2

	WITHIN STREAM	OUTSIDE STREAM
31 SURFACE COVERAGE	/	30-10" x 10" patches } oil distributed over 1/10 of a mile 75-4' x 8' patches }
32 SURFACE THICKNESS	/	Ø → 4-8" / mm thin coating
33 PENETRATION	/	2-4" / mm thin coating

34 **PREDOMINANT SUBSTRATE TYPE:**

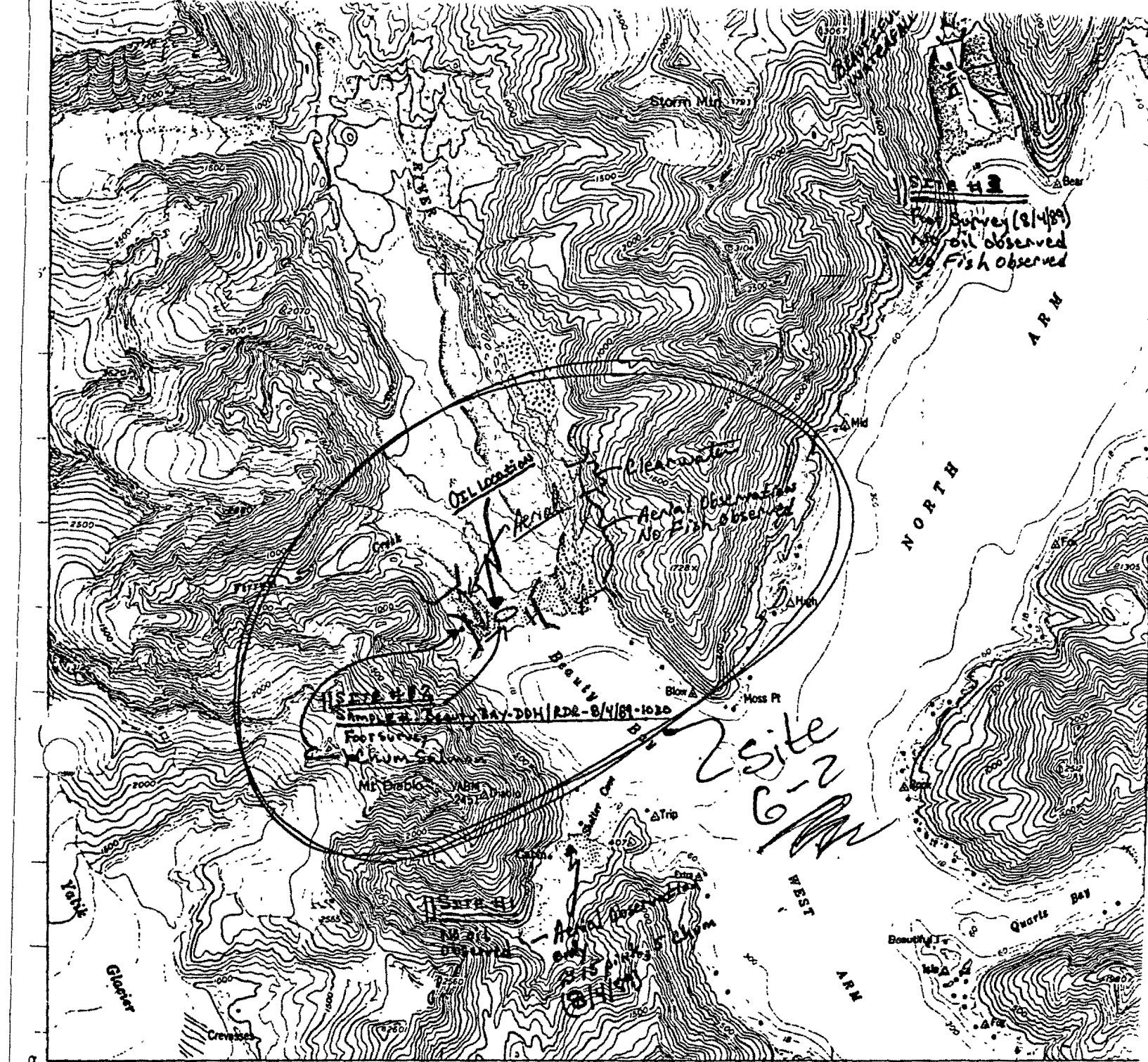
1. Bedrock
2. Boulder
3. Cobble
4. Gravel
5. Sand
6. Mud
7. Other



ACE 9962100

ACE 7380283

35 COMMENTS: Oil observed sporadically over 1/10 of a mile
Much of this oil found as a light covering just beneath the surface - surface appears clean.



150°45'

40

35

(SELDOVIA B-3)

Mapped, edited, and published by the Geological Survey

Control by USC&GS and USCE

Hydrography compiled from USC&GS charts 8530 and 8552 (1:200,000 Scale)

Topography from aerial photographs by multiplex methods 1953
Aerial photographs taken 1951

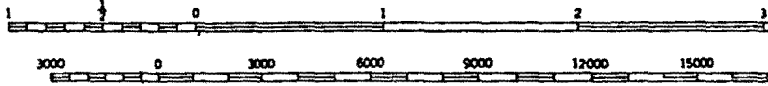
Universal Transverse Mercator projection, zone 5
1927 North American datum

Unchecked elevations are shown in brown

1000-meter Universal Transverse Mercator grid ticks, zone 5, shown in blue



APPROXIMATE MEAN DECLINATION, 1953



SCALE 1:63,360

CONTOUR INTERVAL 100 FEET
DATUM IS MEAN SEA LEVEL
DEPTH CURVES IN FEET DATUM IS MEAN LOWER LOW WATER
SHORELINE SHOWN REPRESENTS THE APPROXIMATE LINE OF MEAN HIGH WATER
THE AVERAGE RANGE OF TIDE IS APPROXIMATELY 9 FEET

FOR SALE BY U. S. GEOLOGICAL SURVEY
FAIRBANKS, ALASKA DENVER 2, COLORADO WASHINGTON
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

Seldovia
C-2

ACE 9962101-15/SG

ACE 7380284

2322

10130
10135
10140
10145

ASC NUMBER: 232-20
 LOCATION: Nuka Bay-west Arm-Beauty Bay-Head of Bay
 TEAM NAME: SEE comments section
 KOSIAK K-UNIT:
 USGS QUADRANGLE: seldovia C-2
 SHORELINE TYPE: Beach-Tide flats
 WAVE EXPOSURE: Low

SEGMENT NUMBER: BB-901

YR CATALOGED:
 LATITUDE:
 LONGITUDE: See comments section
 LEGAL:

ALL SEGMENTS:

ASC NUMBER:
 SURVEY TYPE: BS
 METHOD: Ground
 DATE: 8/4/89
 START TIME: 1010
 STOP TIME: 1116

TEAM RECORDER: Doug Hill
 OBSERVERS: Rick Randall

AGENCY (IES): ADFG

PHOTOS TAKEN? Photoprocessor shredded DDM film
 Roll #: RDR-8 Frames: 13, 14, 15, 16, 17
 VIDEO TAKEN? Tape Number:
 Counter Start:

DRG
10/4/91

SAMPLES TAKEN?
 SAMPLE I.D. NUMBERS: 1 DDM/RDR-8/4/89-1030 2.
 4. 5. 3.
 6.

	LENGTH m	WIDTH m	M2	%	THICK cm	PEN cm	OIL TYPE
SITE 1	8.7	8.7	76	95	<20	<10	MS withing AP, tar mats
SITE 2	960	.5	480	10	<1	<1	MS, ST, CT, CV
SITE 3							
SITE 4							
SITE 5							

OVERALL OIL IMPACT: VV

OIL IN STREAM CHANNEL? SUBSTRATE

OIL ON BEACH WITHIN 50M OF STREAM MOUTH?

Bedrock	Granule x
Boulder	Sand 10
Cobble 10	Silt
Pebble 80	Veget.

SPECIES	Pinks				
COUNT	200				

COMMENTS: For separate data & map purposes

Stream #	LAT.	Long.	Legal
10130	59 33 22	150 38 27	S 7S 8W21 - Nuka River
10135	59 33 15	150 38 32	S 7S 8W21
10140	59 32 59	150 39 03	S 7S 8W21
10145	59 32 52	150 39 36	S 7S 8W28 - Ferrum Creek

ACE 9962102 +/S

Site 2 - Oil observed sporadically over approx. 6/10 (960m) of a mile. Much of this oil found as a light cover just beneath surface - surface clean.

* 200 pinks observed on 8/22/89 in stream # 10145 (Ferrum Crk)
 - East side stream too silty to observe fish (Nuka River) - Flew upstream to clear water stream on east bank. Streams 10135 + 10140 dry.

Site 1 - area logged represents sum total of 30 tar mats.
 ~ 287 cu yds of oiled material were removed from the Beauty Bay Tide flats from 5/12/89 thru 5/30/89. A 200ft x 4ft band of mousse was observed

Dupe

FISH HABITAT ASSESSMENT FORM

NUKA Bay - WEST ARM - HEAD OF BAY - BEAUTY BAY

1 REGION: 2 PWS XP, CI 4 X, AP 6 OBSERVER(S) Doug Hill, Rick RANDALL

8 SITE NO. 6-2 7 AERIAL PHOTO NO. _____ 9 CAT NO. 232-22 ¹⁰¹⁴⁵₁₀₁₄₀₁₀₁₃₅₁₀₁₃₀

10 STREAM NAME _____ 11 LAT _____ 12 LONG _____

13 DATE 8/4/89 14 TIME 1010 15 TIDE: Low slack Flood High slack Ebb
8/22/89 → 1600

16 CATALOGED ANADROMOUS STREAM? Y N 17 ANAD. FISH FOUND? Y N

18 OIL FOUND IN STREAM? Y N 19 OIL FOUND NEAR STREAM (1 MI.)? Y N

20 OIL SAMPLES TAKEN? Y N 21 ID NOS. Beauty Bay-DDH/RDR-8/4/89-1030

22 35 MM PICTURES TAKEN? Y N 23 ROLL NO(S). RDR-8

24 EXPOSURE NO.	25 DESCRIPTION
<u>13</u>	<u>Tar mat (Mousse Patches) on Beauty Beach</u>
<u>14</u>	<u>SAME AS 13.</u>
<u>15</u>	<u>" " " " " "</u>
<u>16</u>	<u>" " " " " "</u>
<u>17</u>	<u>Collecting Sample (oil)</u>

26 VIDEO FOOTAGE TAKEN? Y N 27 CASSETTE NO(S). _____

28 DESCRIPTION: _____
_____ ACE 9962103
_____ ACE 7380282

ANADROMOUS FISH OBSERVATIONS

	PINK	CHUM	RED	KING	COHO	DOLLY		
28 Aerial	200							
29 Ground	∅							

30 COMMENTS: 200 pinks observed on 8/22/89 survey - observed in West Side Channel (10145)

→ East Side Stream too silty to observe fish - flow upstream to clearwater stream on EAST bank.

OIL OBSERVATIONS

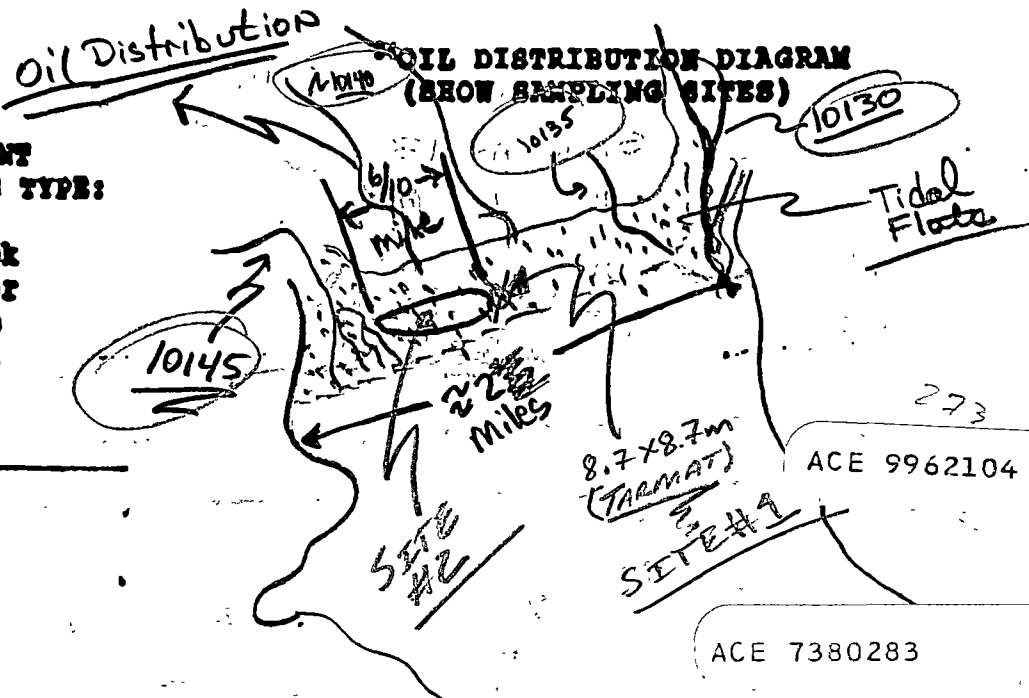
EXTENT OF OIL:

	WITHIN STREAM	OUTSIDE STREAM
31 SURFACE COVERAGE	/	30-10" x 10" patches } oil distributed over 1/10 of a mile 15-7' x 8' patches }
32 SURFACE THICKNESS	/	0" → 4-8" / mm thin coating
33 PENETRATION	/	2-4" / mm thin coating

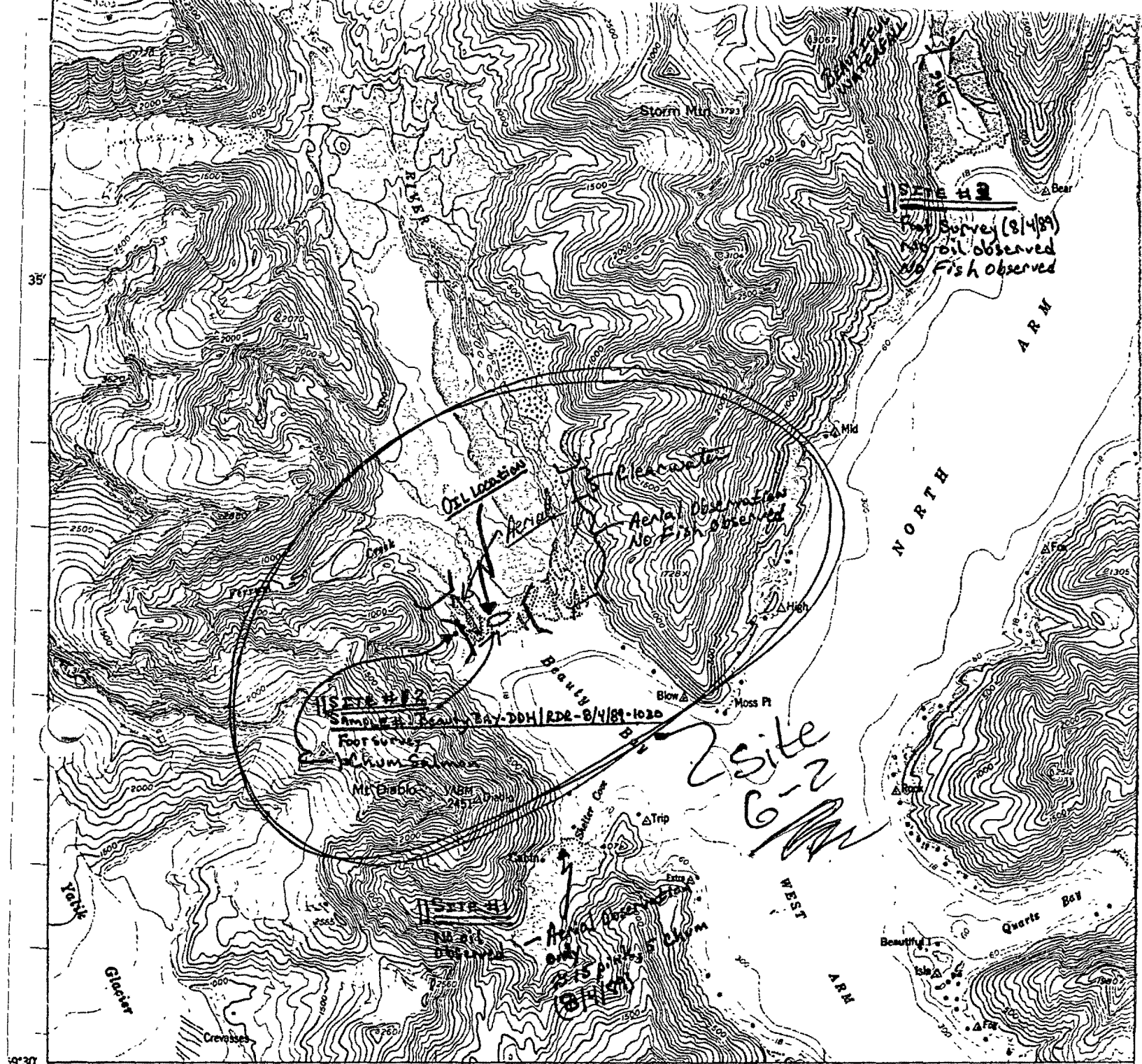
Site 6-2

34 PREDOMINANT SUBSTRATE TYPE:

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



35 COMMENTS: Oil observed sporadically over 1/10 of a mile. Much of this oil found as a light covering just beneath the surface - surface appears clean.

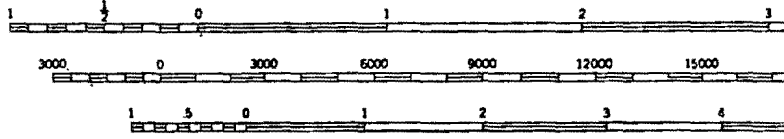


150°45'

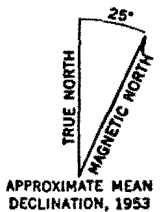
40

35

(SELDOVIA B-2)
SCALE 1:63,360



Mapped, edited, and published by the Geological Survey
Control by USC&GS and USCE
Hydrography compiled from USC&GS charts 8530
and 8552 (1:200,000 Scale)
Topography from aerial photographs by multiplex methods 1953
Aerial photographs taken 1951
Universal Transverse Mercator projection, zone 5
1927 North American datum
Unchecked elevations are shown in brown
1000-meter Universal Transverse Mercator grid ticks,
zone 5, shown in blue



CONTOUR INTERVAL 100 FEET
DATUM IS MEAN SEA LEVEL
DEPTH CURVES IN FEET DATUM IS MEAN LOWER LOW WATER
SHORELINE SHOWN REPRESENTS THE APPROXIMATE LINE OF MEAN HIGH WATER
THE AVERAGE RANGE OF TIDE IS APPROXIMATELY 9 FEET

FOR SALE BY U. S. GEOLOGICAL SURVEY
FAIRBANKS, ALASKA DENVER 2, COLORADO WASHINGTON
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

Seldovia
C-2

ACE 9962105 -/slp
ACE 7380284