

ADF&G MULTI-ASSESSMENT FORM
1991 GENERAL ENTRY CHECKLIST

STREAM#: 2627010020
SEGMENT: PB002

PAGE 77

DATE PRINTED: 07/25/91

LOCATION: PUALE BAY

SURVEY TYPE: 90 PRE SCREEN - SS

METHOD: GROUND

DATE: 04/27/90

TEAM RECORDER: WEISS

START TIME: 1340

OBSERVERS: BARNHART

END TIME: 1405

TIDES: -0-

AGENCY: FG

OG/HAB DISCREPANCIES: -

PHOTOS TAKEN: -

STATION: 2627010020

ROLL#: -0-

FRAME: -0-

VIDEO TAKEN: N

TAPE#: -0-

START: -0-

END: -0-

SAMPLES TAKEN: N

SAMPLE NUMBERS: -0-

-0-

-0-

-0-

-0-

-0-

OIL IN STREAM BED: N

OVERALL OIL IMPACT: N

OIL ON BEACH BY MOUTH: N

WAVE EXPOSURE: -0-

SHORELINE TYPE: LOW-LYING ROCKS BEACH

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

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

ANADROMOUS FISH PRESENT: Y

SPECIES: -0-

COUNT: -0-

-0-

-0-

-0-

-0-

-0-

-0-

-0-

-0-

ADF&G MULTI-ASSESSMENT FORM
1991 OILING ENTRY CHECKLIST



PAGE 80

DATE PRINTED: 07/26/91

STREAM# : 2627010020
SEGMENT#: PB002

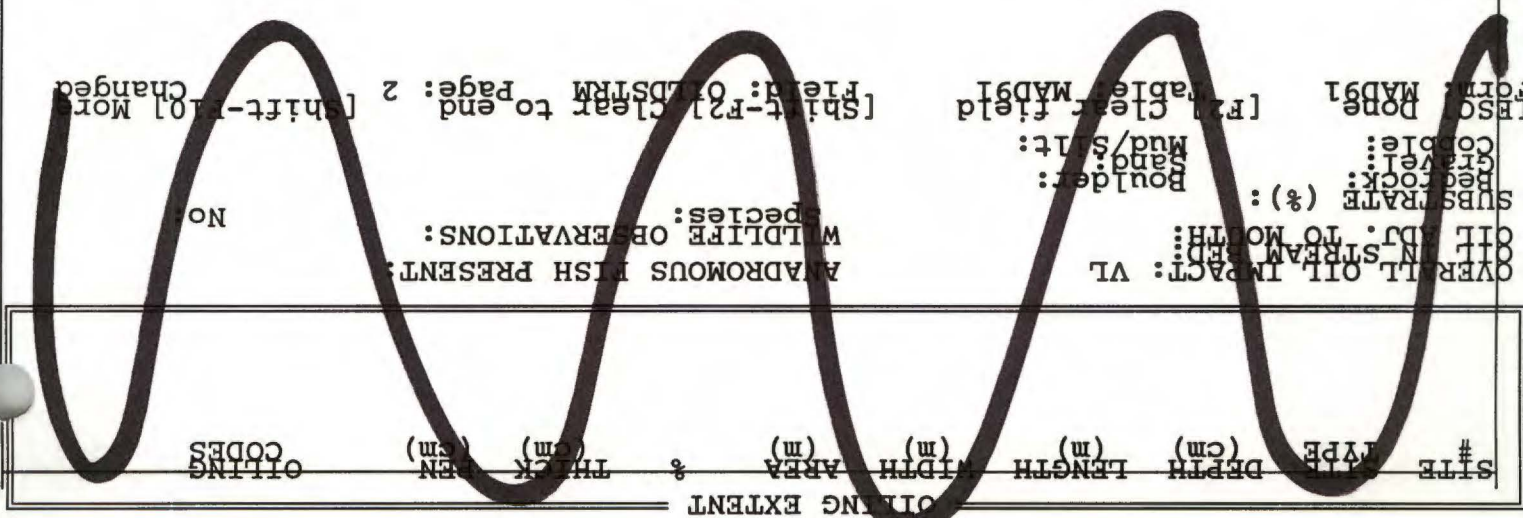
SURVEY TYPE : 90 PRE SCREEN - SS LOCATION: PUALE BAY
DATE: 04/27/90
TIMES: 1340 - 1405 TEAM RECORDER: WEISS

-- 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-	-0- N

COMMENTS:

UNIDENTIFIED SALMON SMOLT OBSERVED, NO COUNT. NO OIL FOUND. SCHOOLING SMOLT, DIPPER, SEEN AT MOUTH AREA. RECOMMEND NO ANADSSAT.



ADF&G MULTI-ASSESSMENT DATA FORM

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

METHOD: Aerial Ground Boat

3 DATE: 4/27/90 15 HIGH TIDE TIMES: 1 21 TEAM RECORDER: E. WEISS

4 START TIME: 1340 16 HIGH TIDE HTS: 1 22 OBSERVERS: J. BARNHART

5 STOP TIME: 1405 17 LOW TIDE TIMES: 1046 23 AGENCY: ADF&G

6 SEGMENT #: PB 002 18 LOW TIDE HTS: -3.5 24 PHOTOS TAKEN: Y N ?

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

8 K-UNIT: K1007 Ebb Slack Flood Slack 25 VIDEO TAKEN: Y N TAPE#: _____

9 STAT AREA: _____ 20 USCG QUAD: _____ Start: _____ End: _____

10 LAT: _____ 11 LONG: _____ 26 SAMPLES TAKEN? Y X Number

12 SOURCE: Map Loran 011 _____

13 LOCATION: PUALE BAY, AK PENINSULA Sediment _____

14 DESCRIPTION: _____ Biological _____

Water _____

EXTENT OF OIL

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

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
Gravel Sand Mud/silt

36 CATALOGED ANAD. FISH STREAM? X N

37 CATALOG #: 262-70-10020

38 STREAM NAME: PORTAGE CREEK

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: NOT SURVEYED

43 ANADROMOUS FISH PRESENT? (Y) N

44 ANADROMOUS FISH OBSERVATION

Species	Aerial	Ground
unidentified Salmonid		NO COUNT

COMMENTS: NO OIL FOUND. SCHOOLING SMOLT, BLABER, SEEN
AT MOUTH AREA.

ACE 7334458+P/HF -

RECOMMEND: NO ANADSSAT

E. Weiss J. Barnhart

ADF&G MULTI-ASSESSMENT DATA FORM

1 SURVEY TYPE: BS SS DS TS AVS SCHA MMHS PTA2 REGION: PWS KP, CI K, APMETHOD: Aerial Ground Boat3 DATE: 4/27/9015 HIGH TIDE TIMES: 121 TEAM RECORDER: E. WEISS4 START TIME: 134016 HIGH TIDE HTS: 122 OBSERVERS: J. BARNHART5 STOP TIME: 140517 LOW TIDE TIMES: 104623 AGENCY: ADF&G6 SEGMENT #: AB 00218 LOW TIDE HTS: -3.524 PHOTOS TAKEN: Y N ?

7 STATION #: _____

19 TIDE HT AT SURVEY: _____

Roll #: _____ Frame: _____

8 K-UNIT: K1007

Ebb Slack Flood Slack

25 VIDEO TAKEN: Y N TAPE#: _____

9 STAT AREA: _____

20 USCG QUAD: _____

Start: _____ End: _____

10 LAT: _____

11 LONG: _____

26 SAMPLES TAKEN? Y X Number

12 SOURCE: Map Loran

Oil _____

13 LOCATION: PUALE BAY, AK PENINSULA

Sediment _____

14 DESCRIPTION: _____

Biological _____

Water _____

EXTENT OF OIL

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

36 CATALOGED ANAD. FISH STREAM? X N37 CATALOG #: 262-70-1002038 STREAM NAME: PORTAGE CREEK39 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: NOT SURVEYED43 ANADROMOUS FISH PRESENT? (Y) N44 ANADROMOUS FISH OBSERVATION
Species Aerial Ground

unidentified Salmonid		NO COUNT

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 _____
Gravel _____ Sand _____ Mud/silt _____COMMENTS: NO OIL FOUND. SCHOOLING SMOLT, DIPPER, SEEN AT MOUTH AREA.

ACE 7334458+P/HF

RECOMMEND: NO ANADSSAT E. Weiss Jeff Barnhart

45 PHOTOLOG

FRAME(S)	DESCRIPTION

46 OIL DISTRIBUTION DIAGRAM

= Sample taken
 = Photo frame # and
 shot direction.

ACE 7334459

Kodiak *Quale Bay*

(version 4/29/89)

SHORELINE CLEANUP PROGRAM

DATE 5/10/89

SHORELINE SEGMENT PB-1

LOCATION: (see enclosed map) Beach at head of PUALE BAY

ADEC NO. _____ SHORELINE ASSESSMENT DATE: _____

Recommended Cleanup Activity(ies):

- ① mechanical pickup with wide tracked equipment (loaders)
- ② Consider onsite burial to achieve timely cleanup

Priorities Considerations:

Very high so oil isn't all buried in loose sand
Very heavily oiled in some sections

Ecological Constraints (from site survey):

None. Clean ASAP to minimize potential damage to clam beds from continuous burial of oil at each tide change.

Archeological Constraints (from site survey):

If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon archaeologist C. Mobley and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

State Historic Preservation Officer *

Date: _____

EXXON: _____

Date: _____

FOSC: _____

Date: _____

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

(version 4/29/89)

SHORELINE CLEANUP PROGRAM

DATE 5/10/89

SHORELINE SEGMENT PB-1

LOCATION: (see enclosed map) Beach at head of PUALA BAY

ADEC NO. _____ SHORELINE ASSESSMENT DATE: _____

Recommended Cleanup Activity(ies):

Type B cleanup ^{including} mechanical pickup with wide tracked equipment (loaders) and ~~excavator~~ onsite burial to achieve timely cleanup, may be preferable to Type A cleanup.

Priorities Considerations:

Very high as oil is all buried in loose sand
Very heavily oiled in some sections

Ecological Constraints (from site survey):

None. Clean ASAP to minimize potential damage to clam beds from continuous burial of oil at each tide change.

Archeological Constraints (from site survey):

If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon archaeologist C. Mobley and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

~~Post-cleanup archaeological assessment required.~~
Post-cleanup archaeological assessment required.

State Historic Preservation Officer *

Date: _____

EXXON: _____

Date: _____

FOSC: _____

Date: _____

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

ACE 7334461

MAY 11 1989 18:57 EXXON (KODIAK)

SHORELINE OIL EVALUATIONDate: 10 May 89 / Time: 1100Observer: Bob DegenSurveyed From: Foot / Boat / Helio / PlaneWeather: Sun / Cloud / Rain / Snow / FogLOCATIONLOCATION Beach at head of Puale BaySEGMENT NUMBER PB-1LENGTH OF SHORELINE SEGMENT: 4000 mACCESS: Foot / Vehicle / Boat / Barge / Helio / Float PlaneSHORELINE:Shoreline Type: SPI / BEA / COV / HLD / STRT

Slope: LANG / HANG / VER

Wave Exposure: High / Med / LowSediment: B 5 % / C % / P % / G % / S 95 % / M % / R %Drift Debris on Beach: Yes / No Supra / Upper / Mid / Lower Type logsOILDegree of Oiling: Heavy / Moderate / Light / No Oil / UnobservedArea of Beach Impact: SU / SP / H / M / LContinuous: Y / N % of Segment 100 Width of Band: 10-25 mSporadic: Y / N % of Segment Est. Oil Thickness where > 1cm: 1-25 cm Est. Oil Penetration: 1 cmPooled Oil: 10 % "Free" Oil: 90 % Coated: H % / M % / L %Fresh % Mousse 100 % Tar Formation: %Drift Debris Oiled? Yes / No Supra / Upper / Mid / Lower Amount: H / M / L

Comments:

ACE 7334462

Heavily oiled in north portion of segment. Winds are rapidly covering oil. Some layering due to tide cycles & wind blown sand. Light mousse seen still in water. Segment includes shore of lagoon that parallels the beach. Massive cleanup would be required. Wide tracked loaders & rollers needed to stay atop the loose fine sands. Onsite burial of oil & oil contaminated sand should be seriously considered due to the volume of material involved (1000-2000 yd³). High priority to reduce volume of material to be disposed.

MAY 11 11:57 EXXON (KODIAK)

DOCUMENTATION:Map/Aerial photo marking segment boundaries See AttachedVTR: Y/N -- Tape Number(s) NonePhotography: Y/N Roll Number(s) T1B-10Sample Numbers Collected: None

ACE 7334463

ISLANDS (Locations)

Naked Is.	NA
Peak Is.	PE
Stoney Is.	ST
Eleanor Is.	EL
Ingot Is.	IN
Block Is.	BL
Entrance Is.	EN
Sphinx Is.	SP
Disk Is.	DI
Knight Is.	KN
Smith Is.	SM
Seal Is.	SE
Applegate Is.	AP
Green Is.	GR
L. Green Is.	LG
Agnes (Bass) Is.	AB
L. Smith Is.	LS
Gore Point	GP
Montague Is.	MN
Aguliak Is.	AG
Squirrel Is.	SL
New Year Is.	NY
Murray Is.	MU
Squire Is.	SQ
Crafton Is.	CR
Pt. Nowell	PN
Junction Is.	JU
Chenega Is.	CH
Pleiades Is.	PL
Bainbridge Is.	BA
Flemming Is.	FL
Evans Is.	EV
Elrington Is.	ER
Latouche Is.	LA
Danger Is.	DA

* GEOLOGIC SEDIMENT TYPE

Boulder (>256mm)	B
Cobble (64-256)	C
Pebble (4-64)	P
Granule (2-4)	G
Sand (0.06-2)	S
Mud (less 0.06)	M
Rock	R

** DEGREE OF OILING

Heavy	HV
Moderate	MD
Light	LT
No Oil	NO
Unobserved	UN

AREA OF BEACH IMPACT

Supratidal (+SHWL)	SU
HWL to SHWL	SP
Upper 1/3 ITZ	H
Middle 1/3 ITZ	M
Lower 1/3 ITZ	L

ADEC IMPACT SURVEY

Heavy	HVY
Moderate	MOD
Light	LT
No Oil	NO
Unobserved	UNOBS

SHORELINE TYPE

Beach	BEA
Cove	COV
High Angle	HANG
Low Angle	LANG
Vertical	VER
Headland	HLD
Spit	SPI

Comments:

* Multiple entry is acceptable, use decreasing order of type found.
(ie. C/G/S where C is most predominant type and S is the least one.)

** Heavy (>6m wide and/or >1.0 cm thick)
Moderate (3-6m wide and/or 0.2-1.0 cm thick)
Light (0.1 -3m wide and/or <0.2 cm thick)
No Oil (free of visible oil)

ACE 7334464

ECOLOGICAL EVALUATION

LOCATION: Beach at head of Puget Bay SITE: _____ OBSERVER: D. McCormick
 LOCATION PREFIX: _____ SEG. NO.: PB-1 LENGTH: 4000 (M)
 DATE: 5/10/89 TIME (HHMM): 1100 TIDE HT.: +0.5 (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 Fucus is at strand line, buried under sand-oiled.

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

Mytilus shells scattered along lower ITZ only.

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

Balanus shells at strand line only.

Littorina

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

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

OTHER OBSERVATIONS: Bear tracks seen along mid-tide line going south;
counted approx. 35 oiled birds (dead), 5 of which were scavenged by gulls or bears;
saw one set of prints, possibly fox.

CLEANUP PRECAUTIONS: Manual cleanup at high tide zone should not affect
lower, less contaminated lower ITZ.

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

BIRDS: gulls, some shorebirds, spp unknown

GENERAL OBSERVATIONS: Worst oiling confined to upper tide zone - this beach
has potential for long term study of effect buried oil may have on clam
beds.

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 5-10-89 Location Puale Bay Site Beach AT the head of Puale Bay
Location Prefix PB Segment # 1 Length 4000 m

Survey Method:

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

Ground ✓ (G - indicate on map)

Known cultural resources (AHRS #) None Data Source _____

Oil conditions/beach visibility Broad Sand or Mousse. Some covered by sand

Width of beach zone surveyed 5-10 m Tree fringe surveyed up to 70 m

Cultural resources observed in beach zone (AHRS code) None

Cultural resources observed in tree fringe (AHRS code) RCS, CBN, HTO

General observations justifying survey method and segment's site probability:
Wide Flat Sand Beach. Along the western portion, the beach is bordered by a broad beach strand and dunes. To the east the stream gives way to a series of stabilized dunes.

Fresh Water Sources Small Streams

Sea Exposure Only slightly protected in Puale Bay

Access/Safety Easily Accessible by either Boat or Air

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 # MAY 2 Frames 34, 35, 36

B/W Roll # _____ Frames _____

Observer(s) Mike YARBOROUGH, Rick Kincht

Time survey started 11:00 AM Time survey ended _____

Cultural resource considerations/restraints:

If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon's director of Field Archaeology immediately.

10 Mar 89

TIME: 1100

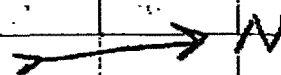
Segment: Puale Bay - 1 Lagoon

weather: sunny

moon: moon

SCALE

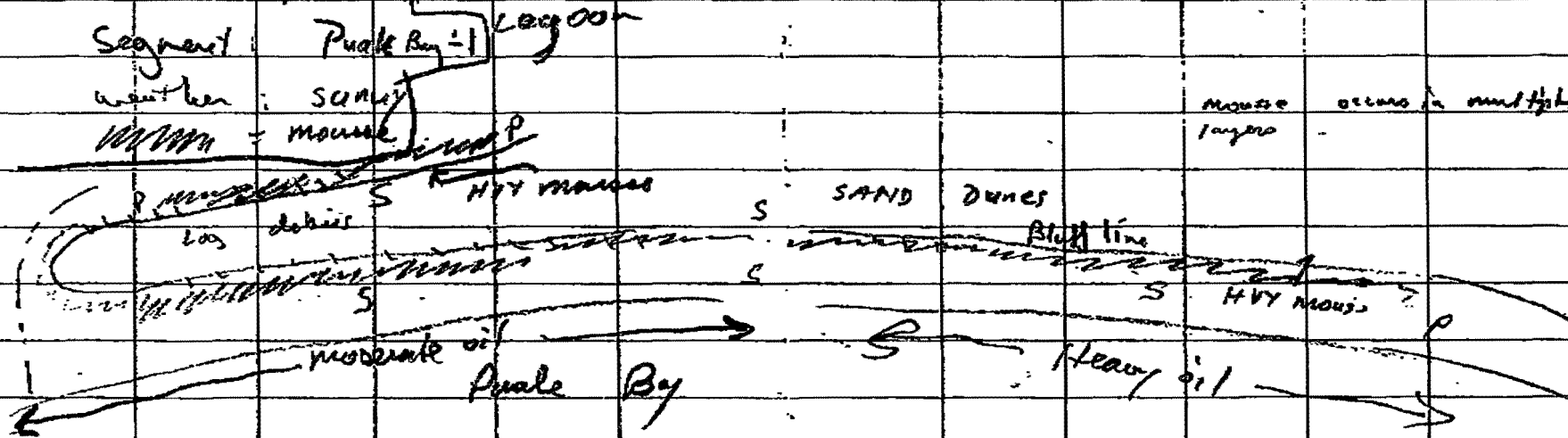
250m



mouse

occurs in multiple

layers



BEACH: Fine sand 100% LATE in HITZ & Supra tide zones

HITZ: Patches of mouse ^{very to} moderate, concentrated in several stand lines, some is pooled 10-25 cm deep behind logs, most is buried or partly buried in fine sand from wind/wave

width of mouse-covered zone ~ 25m, is mouse covered

HITZ - very light mouse scum, being worked into beach, scattered ^{small} patches

LITZ - very light mouse scum, being worked into beach, scattered ^{tiny} blobs

Debris - ^{some} sorted (Supra zone, behind w/ logs)

water - Fresh mouse scum in water along shore

happily - very poor in HITZ due to loose sand

ACE 7334467

(version 4/29/89)

PB-2

SHORELINE CLEANUP PROGRAM

DATE 5/10/89

SHORELINE SEGMENT PB-2

LOCATION: (see enclosed map) PORTAGE CREEK AREA, PUALA BAY

ADEC NO. _____ SHORELINE ASSESSMENT DATE: _____

Recommended Cleanup Activity(ies):

None, since

Priorities Considerations:

low . very lightly oil

Ecological Constraints (from site survey):

None, since no further cleanup is recommended, only very light oiling exists here, mostly as sheen within tide pool areas.

Archeological Constraints (from site survey):

~~If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon archaeologist G. Mobley and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.~~

If cleanup is planned, ~~each~~ subsurface archaeological testing by archaeologist is required in eastern portion of segment near mouth of Portage Creek.

State Historic Preservation Officer *

Date: _____

EXXON: _____

Date: _____

FOSC: _____

Date: _____

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

ACE 7334469 +S

SHORELINE OIL EVALUATIONDate: 10 May 89 Time: 1330Observer: Bob DuganSurveyed From: Foot/Boat/Helio/PlaneWeather: Sun/Cloud/Rain/Snow/FogLOCATIONLOCATION Portage Creek area
Puget BaySEGMENT NUMBER P.B. - 2LENGTH OF SHORELINE SEGMENT: 2500 mACCESS: Foot/Vehicle/Boat/Barge/Helio/Float PlaneSHORELINE:Shoreline Type: SPI/BEA/COV/HLD/STRTSlope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B/0% / C___% / P___% / G___% / S/60% / M___% / R/30%Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type logsOILDegree of Oiling: Heavy/Moderate/Light/No Oil/UnobservedArea of Beach Impact: SU / SP / H / M / LContinuous: N % of Segment 100 Width of Band: 40 mSporadic: Y/N % of Segment 100Est. Oil Thickness where > 1cm: ___ cm Est. Oil Penetration: 1 cmPooled Oil: ___ % "Free" Oil: 90% Coated: H 5% / M 5% / L ___%Fresh ___ % Mousse 100 % Tar Formation: ___%Drift Debris Oiled? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L

Comments:

Very light mousse blobs 1cm to 20 cm
in widely scattered pattern Total cover less than
0.5 %. Recommend no further cleanup action.

ACE 7334470

DOCUMENTATION:Map/Aerial photo marking segment boundaries See Attached

VTR: Y/N - Tape Number(s) _____

Photography: Y/N Roll Number(s) T1B-10Sample Numbers Collected: None

ACE 7334471

ISLANDS (Locations)

Naked Is.	NA
Peak Is.	PE
Stoney Is.	ST
Eleanor Is.	EL
Ingot Is.	IN
Block Is.	BL
Entrance Is.	EN
Sphinx Is.	SP
Disk Is.	DI
Knight Is.	KN
Smith Is.	SM
Seal Is.	SE
Applegate Is.	AP
Green Is.	GR
L. Green Is.	LG
Agnes (Bass) Is.	AB
L. Smith Is.	LS
Gore Point	GP
Montague Is.	MN
Aguliak Is.	AG
Squirrel Is.	SL
New Year Is.	NY
Murray Is.	MU
Squire Is.	SQ
Crafton Is.	CR
Pt. Nowell	PN
Junction Is.	JU
Chenega Is.	CH
Pleiades Is.	PL
Bainbridge Is.	BA
Flemming Is.	FL
Evans Is.	EV
Elrington Is.	ER
Latouche Is.	LA
Danger Is.	DA

* GEOLOGIC SEDIMENT TYPE

Boulder (>256mm)	B
Cobble (64-256)	C
Pebble (4-64)	P
Granule (2-4)	G
Sand (0.06-2)	S
Mud (less 0.06)	M
Rock	R

** DEGREE OF OILING

Heavy	HV
Moderate	MD
Light	LT
No Oil	NO
Unobserved	UN

AREA OF BEACH IMPACT

Supratidal (+SHWL)	SU
HWL to SHWL	SP
Upper 1/3 ITZ	H
Middle 1/3 ITZ	M
Lower 1/3 ITZ	L

ADEC IMPACT SURVEY

Heavy	HVY
Moderate	MOD
Light	LT
No Oil	NO
Unobserved	UNOBS

SHORELINE TYPE

Beach	BEA
Cove	COV
High Angle	HANG
Low Angle	LANG
Vertical	VER
Headland	HLD
Spit	SPI

Comments:

* Multiple entry is acceptable, use decreasing order of type found.
(ie. C/G/S where C is most predominant type and S is the least one.)

** Heavy (>6m wide and/or >1.0 cm thick)
Moderate (3-6m wide and/or 0.2-1.0 cm thick)
Light (0.1 -3m wide and/or <0.2 cm thick)
No Oil (free of visible oil)

ACE 7334472

ECOLOGICAL EVALUATION

LOCATION: Portage Creek area
Puget Bay SITE: _____ OBSERVER: D. McCormick

LOCATION PREFIX: _____ SEG. NO.: PB-2 LENGTH: 2500 (M)

DATE: 5/10/89 TIME (HHMM): 1330 TIDE HT.: slack water (M)

OILED ZONE: Splash High Medium Low

SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud

LIVE BIOTA

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

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

extensive mussel beds - some lightly oiled but dead ones not heavily oiled.

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

Balanus at mid-tide gone probably killed off by oil - in lower ITZ look o.k.

Littorina

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

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

OTHER OBSERVATIONS: Oiled birds within rock/boulder area - heavy oil on water in tide pool areas; mussel patches in mid and lower ITZ.

CLEANUP PRECAUTIONS: Noise, since no further cleanup is recommended.

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

BIRDS: gulls, shorebirds (sp. unknown); 1 dead mussel

GENERAL OBSERVATIONS: This segment includes a rocky outcropping with extensive tide pools (mussel beds/barnacles) and a gravel/rock beach.

ACE 7334473

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 5-10-89 Location Puako Bay Site Portage Creek Area

Location Prefix PB Segment # 2 Length 2500 m

Survey Method:

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

Ground ✓ (G - indicate on map)

Known cultural resources (AHRS #) None Data Source _____

Oil conditions/beach visibility Very Light NO Cleanup Recommended

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:
VARIES FROM A LOW BEACH RIDGE ABOVE A RELATIVELY FLAT SAND BEACH,
Shore Profile to High CLIFFS RISING FROM A ROCKY TIDE LINE

Fresh Water Sources Portage Creek and other smaller streams

Sea Exposure Fairly well protected in the northeastern corner of Puako Bay

Access/Safety Easily accessible by boat or helicopter

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

Monitoring during cleanup needed yes/no Collection yes/no

Photos: Color Roll # _____ Frames _____

B/W Roll # _____ Frames _____

Observer(s) Mike Varborough Rick Vnucht

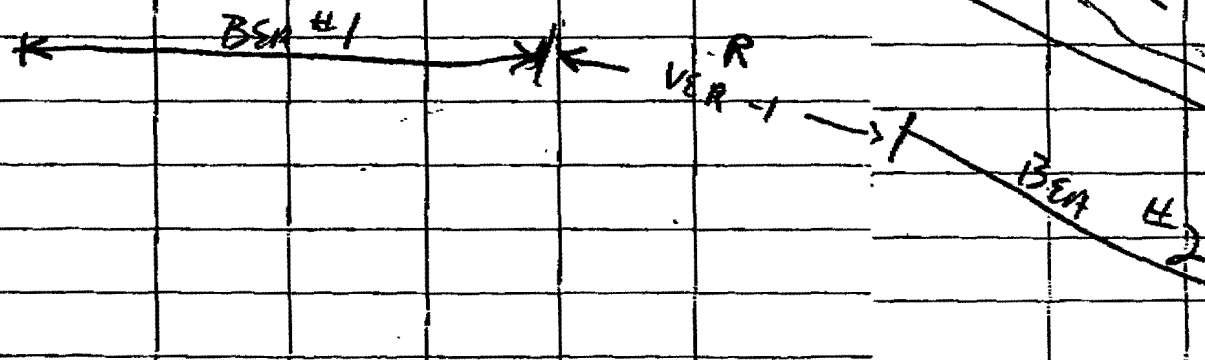
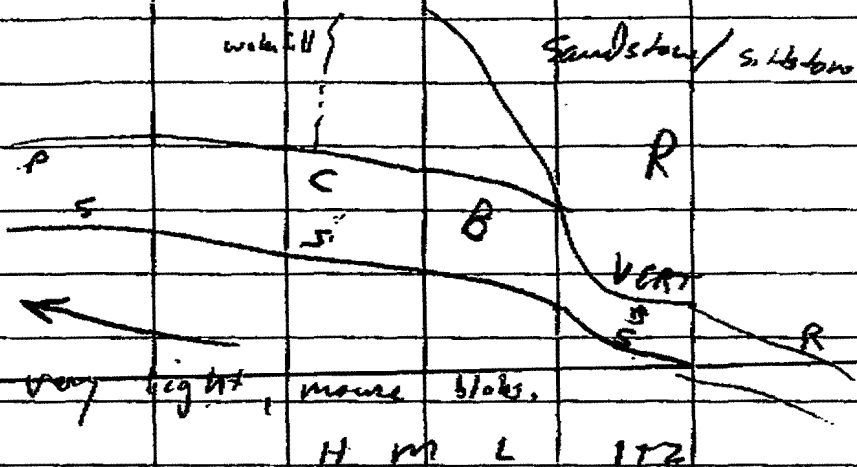
Time survey started 1:30 pm Time survey ended 3:45 pm

Cultural resource considerations/restraints:

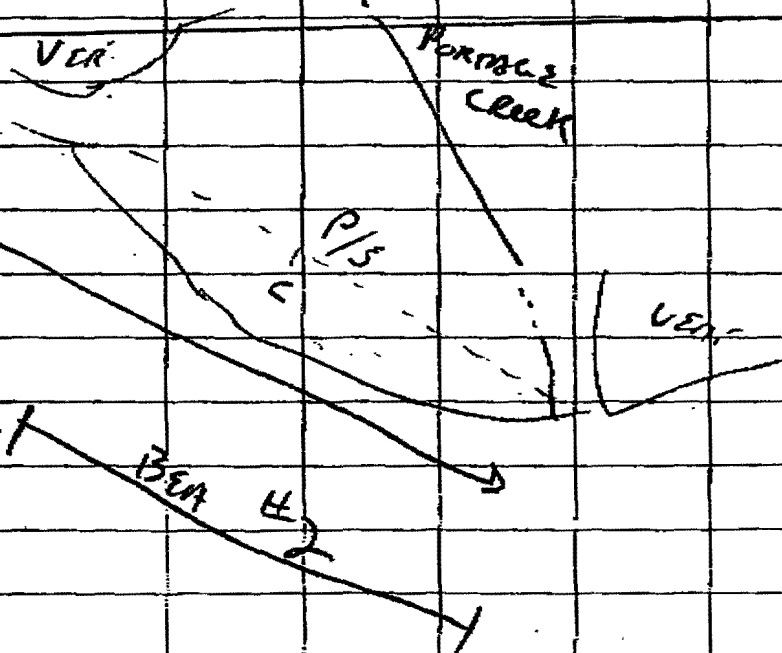
IF HOWEVER UNDISCOVERED CULTURAL REMAINS ARE FOUND DURING
CLEANUP, CONTACT EXXONS IMMEDIATELY OR FIELD ARCHEOLOGY
IMMEDIATELY.

ACE 7334474

DATE = 10 MAY 89
 Segment Pual Bay -2
 TIME = 1330



0 200 m



Pompey Creek

ACE 7334475

ACE 7334476



IN REPLY REFER TO:

United States Department of the Interior

U.S. FISH AND WILDLIFE SERVICE
Kodiak National Wildlife Refuge
1390 Buskin River Road
Kodiak, Alaska 99615
907-487-2600
FAX # 907-487-2144



DATE

5/8/89

COVER SHEET

SENT TO:

Dave McGillivray

FAX NO:

562-2297

ATTENTION:

Same

SENT BY:

Jay R. Bellingner

CONTAINS:

4

PAGES, INCLUDING COVER SHEET.

IF ALL PAGES NOT RECEIVED, PLEASE CONTACT

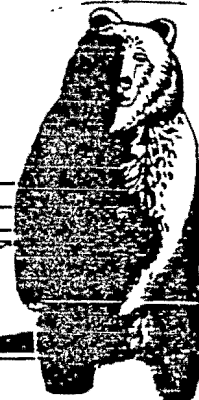
JRB

AT 487-2600.

REMARKS:

Attached is the quick (in response
to the Admirals direction on Sat. Afternoon)
shoreline clean up plan I worked up with
Ron Hood yesterday. The NPS had to
do a similar project for Katmai.

ACE 7334478 +S





IN REPLY REFER TO:

United States Department of the Interior



FISH AND WILDLIFE SERVICE
ALASKA PENINSULA/BECHAROF NATIONAL WILDLIFE REFUGES
P.O. BOX 277
KING SALMON, ALASKA 99613

Form 3-265 U.S. FISH AND WILDLIFE SERVICE	FAX FORM	
TO: Jay Ballinger	DATE	TIME
FROM: Ron Hood	5/7/89	10:00 a.m.
SUBJECT: Maps of Cleanup Targets	☐ Deliver on regular mail run	
	☒ Urgent-Call to have picked up	
	3:10	

Telecon with Ron Hood on 5/7/89 regarding small 4-wheelers with trailers on beach. He said if you stay on water side of drift wood piles its OK to use them. In other words "on the Beach". It is wilderness at Pauls Bay but this is the minimal tool needed. There are some offshore sea bird or seal rookery rocks in area so need to keep disturbance down near offshore islands.

Jay R. Ballinger
FWS. Coordinator

File Copy

ACE 7334479

Note: copies of this document given to Coast Guard and Exxon on 5/8/89 7:30 a.m.

Mousse and Sheen
off shore throughout
the Bay

P U A L E B A Y

Accessible
only at low tide
Heavy coating of mousse
on scattered boats through-
out this area.

scattered splashes
of mousse on rocks.
Do not target for clean-up

NATIONAL

BEI

2

5/7/89

17

ACE 7334481 -L/S/HF