

EVOS GC 1552 .P75 S42 1989 v.18

[Shoreline evaluations, 1989].

Volume 18
Seal Island, Smith Island

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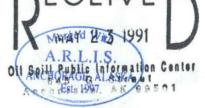
ISLANDS (Locations	s)	*	GEOLOGIC SEDIMENT T	YPE
Naked Is.	NA		Boulder (>256mm)	В
Peak Is.	PE		Cobble (64-256)	C
Stoney Is.	ST		Pebble (4-64)	P
Eleanor Is.	EL		Granule (2-4)	G
Ingot Is.	IN		Sand (0.06-2)	S
Block Is.	BL		Mud (less 0.06)	M
Entrance Is.	EN		Rock	R
Sphinx Is.	SP			
Disk Is.	DI			
Knight Is.	KN	**	DEGREE OF OILING	
Smith Is.	SM			
Seal Is.	SE		Heavy	HV
Applegate Is.	AP		Moderate	MD
Green Is.	GR		Light	LT
L. Green Is.	LG		No Oil	NO
Agnes (Bass) Is.	AB		Unobserved	UN
L. Smith Is.	LS			
Gore Point	GP		AREA OF BEACH IMPAC	T,
Montague Is.	MN			
Aguliak Is.	AG		Supratidal (+SHWL)	SU :
Squirrel Is.	SL		HWL to SHWL	SP
New Year Is.	NY		Upper 1/3 ITZ	H
Murray Is.	MU		Middle 1/3 ITZ	M
Squire Is.	SQ		Lower 1/3 ITZ	L
Crafton Is.	CR			
Pt. Nowell	PN			
Junction Is.	JU		ADEC IMPACT SURVEY	
Chenega Is.	CH			
Pleiades Is.	PL		Heavy	HVY
Bainbridge Is.	BA		Moderate	MOD
Flemming Is.	FL		Light	LT
Evans Is.	EV		No Oil	NO
Elrington Is.	ER		Unobserved	UNOBS
Latouche Is.	LA			
Danger Is.	DA		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 sight least pre.

** 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 vissible oil)</pre>



SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Location (see enclosed map): Pinniped Haulout Block			
Includes Shoreline Segments: SM-47, LS-48, LS-49, LG-50, AB-51			
Submitted: Date: 4-23-89			
FOSC Approval: Admis 69/1 Date: 4/26/8			
Distribution: Exxon Shoreline Coordinator Exxon Shoreline Supervisor Exxon SCAT file			
FOSC			
NOAA EPA USDA (FS) USFW A.DEC A.FG A.DNR			
PWSCA			

Moster

EXXON VALDEZ

SHORELINE TREATMENT APPROVAL

SHORELINE SEGMENT NUMBER	SM-47		
SHORELINE SEGMENT NAME	Smith Haulout		
SUBMITTED FOR APPROVAL _5	<u></u>		
COMMENTS: Environmentaly c	lean		
	Signature of EXXON rep		
ADEC comments on the condirecommendation.	tion of this shoreline segment and action		
ADEC not present	t at ?		
•	Signature of ADEC rep		
Coast Guard Comments and Ac	tion.		
completed removal of gethe oil will not migrate. later date to determine fut	site will require reassessment at, a cure treatment. Terminated due to pupper		
The majority of surface oil contamination has been removed. The site will require reassessment at a later date to determine future treatment.			
All contamination has required unless re-oiled.	been removed. No further treatment Signature of Coast Guard rep		
XC: ADEC EXXON			

SHORELINE CLEANUP PROGRAM

DATE:April	22, 1989	SHORELINE SEGMENT SM-47
LOCATION: (see enclosed map) <u>East</u>	side (seal haulout)
ADEC No.		
SHORELINE A	ASSESSMENT DATE: 4-21-89	
V	l Cleanup Activity(ies): Washing/flooding Warm water at moderate/h Low/high pressure washin	
	Considerations: Pinniped haulout area .	-
	Constraints (from site void destruction of algabossible.	survey): ne holdfasts and mytilus beds if
ı U	incovered, contact Exxon	te survey): vered cultural material is archaeologist C. Mobley as per lines for Shoreline Cleanup".
Mula State Histo	240me oric Preservation Office	Date: 4/23/89
EXXON:		Date:
FOSC:		Date:

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

SHORELINE OIL EVALUATION [revised 17 Apr 89]

Date: 4 21 /89	Observer: C. DILLON
Time: 09 h 00-30 m	eather: Sun Cloud/Rain/Snow/Fog
LOCATION	
LOCATION (BK) SMITH ISLAND	
LOCATION PREFIX SM	SEGMENT NUMBER SM- # 47
LATITUDE: 6 O d 30.0 m s	LONGITUDE: 147 d m_s
LENGTH OF SHORELINE SEGMENT: 40	<u>'0</u> m
ACCESS: FOot/VEhicle/BOat/BArge/H	Elio Float Plane
SHORELINE:	rdifficult landing - only possible at low.
SHORELINE CHARACTER: Shallow	~ 6
BEach/SPit/Cove 7	/
Wave Exposure: High/Med/Low	•
ROCK YN & 10 VETTICE	D/High Angle/Low Angle
SEdiment YN 1 90 Types:	B/C/P/G/S/M/R
Strand Line YN Algae/Deb	
OIL	
LOCATION OF OIL: SU / SP / H / M	/ L
CONTINUOUS: YN WIDTH OF BAND:	
PATCHY: 10/20/30/40/50/60/70/80/9	0% coverage % of Segment 20 (No.)
PATCHY: 10/20/30/40/50/60/70/80/90 >6 cm in pools in EST. OIL THICKNESS: > Introducem EST	OIL PENETRATION: 200 ox of the beach
POOLED OIL: Y/N "FREE" OIL: (Y)N WEATHERED: (Y)N
STRAND LINE CLEAN/OILED NA	- mary in UIIZ - for faction to
SUMMARY OILING: Amount High/Me Coverage Extensi	ve Moderate/Light
comments: lerrain is extremely treacher deep pools of free "tar-like oil. No is all cobble beach. Surface appears hisverer, oil saturation is about	erou due to large juyged boulders and
is all octable back Surface on our	of the extent to the forment in a residence of
himself, oil saturation is about	a frot deep here.
C:\WP\DATA\SHOREVAL.1	•

SHORELINE CLEANUP PROGRAM

DATE: April 22, 1989	SHORELINE SEGMENT LS-48
LOCATION: (see enclosed map) <u>Southwe</u>	st portion of Little Smith
Island ADEC No. 24	
•	•
SHORELINE ASSESSMENT DATE: 4-21-89	
Recommended Cleanup Activity(ies): Washing/flooding Warm water at moderate/hi Low/high pressure washing	
Priorities Considerations: Pinniped haulout area .	- 1
Ecological Constraints (from site s Avoid destruction of algae possible.	urvey): e holdfasts and mytilus beds if
Archeological Constraints (from sit If heretofore undiscovered cu contact Exxon archaeologist C. "Guidelines for Shoreline Clea	ltural material is uncovered, Mobley as per procedures in the
State Historic Preservation Officer	
EXXON:	Date:
FOSC:	Date:

 $[\]star$ Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands .

EXXON VALDES

SHORELINE TREATMENT APPROVAL

SHORELINE SEGMENT NUMBER	LS-48
SHORELINE SEGMENT NAME Litt	le Smith Haulout
SUBMITTED FOR APPROVAL 5 10	89
COMMENTS: Environmentaly clean	
•	Signature of EXXON rep
ADEC comments on the condition o recommendation.	f this shoreline segment and action
ADEC Representative wa	o not present.
	Signature of ADEC rep
Coast Guard Comments and Action.	
Completed removal of gross of the oil will not migrate. Site we later date to determine future tr	contamination to the extent that vill require reassessment at a ceatment. Suspended 5/8/89
The majority of surface oil The site will require reassessmen future treatment.	contamination has been removed. t at a later date to determine
All contamination has been r required unless re-oiled.	emoved. No further treatment GA. Keiter 5/24/89
XC: ADEC	Signature of Coast Guard rép

PINNIPEU HAULOUT

SHORELINE OIL EVALUATION [revised 17 Apr 89]

Date: 4 / 2/ 89	Observer: C. DILLON			
Time:/0_h/5_m	Weather: Sun/cloud/Rain/Snow/Fog			
LOCATION				
LOCATION LITTLE SMITH ISLAND	SITE (SW) SOUTHWEST			
LOCATION PREFIX				
LATITUDE: 6 0 d 30.0 m s	LONGITUDE: 147 d 265 m s			
LENGTH OF SHORELINE SEGMENT:	500 m			
ACCESS: FOot/VEhicle/BOat/BArge/	HElio/Float Plane			
SHORELINE:	Glanding only possible during low tide			
SHORELINE CHARACTER: Shallow, Surre	ounded by cliffs.			
BEach/SPit/COve				
wave Exposure: High/Med/Low	10 000 01845			
ROCK Y/N 8_35 VETTIC	all/High Angle/Low Angle			
SEdiment (Y)N % 75 Types: B/C/P/G/S/M/R				
Strand Line (Y)N Algae/Debris Logs				
OIL (Some)				
LOCATION OF OIL: SU / SP /H /	M/L highly or			
CONTINUOUS: YN WIDTH OF BAND	: 10-20 m % of Segment 85/15%			
PATCHY: 10/20/30/40/50/60/70/80/	90% coverage % of Segment			
EST. OIL THICKNESS: >4 in pools cm ES	T. OIL PENETRATION: *2 cm			
POOLED OIL: YN "FREE" OIL:	YN WEATHERED: (YN to tar consistency Var consistency in pools			
STRAND LINE CLEAN/OILED	Har consistency in pools			
	led/Low live/Moderate/Light			
COMMENTS: Oiling is high and extens	ive in Upper Intertal Zone, decreasing in is of thick tarry oil and pools of water y in middle ITZ.			
Lower ITZ. UITZ contains small pou	is of thick turry oil and pools of water			
with Houring oil - 1 cm thick most	1 In Made IIC.			

C:\WP\DATA\SHOREVAL.1

SHORELINE CLEANUP PROGRAM

DATE:April	L 22, 1989		SHORELINE SEGME	NT_LS-49
			neast portion of	Little Smith
<u> Island</u>	ADEC No	. 24		
SHORELINE	ASSESSMENT	DATE: 4-21-8	39	
Recommende	Washing/flowarm Water	Activity(ies); ooding at moderate/h ressure washin	nigh pressure	•
Priorities	Considera Pinniped h	tions: aulout area .		
Ecological		ts (from site ruction of alg	survey): ae holdfasts and	mytilus beds if
If he conta	eretofore u ct Exxon ar		cultural material . Mobley as per pr	
State Hist	la Z//z coric Prese	rvation Office	Date:	123/89
EXXON:			Date:	
FOSC:			Date:	

 $[\]star$ Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands .

EXXON VALDES

SHORELINE TREATMENT APPROVAL

SHORELINE SEGMENT NUMBER
SHORELINE SEGMENT NAME Little Smith Haulout
SUBMITTED FOR APPROVAL 5/14/89
COMMENTS: Environmentaly clean
Signature of EXXON rep
ADEC comments on the condition of this shoreline segment and action recommendation.
Mes some deliver de met sen et
ADEC representative was not present
Signature of ADEC rep
Coast Guard Comments and Action.
Completed removal of gross contamination to the extent that the oil will not migrate. Site will require reassessment at a later date to determine future treatment.
The majority of surface oil contamination has been removed. The site will require reassessment at a later date to determine future treatment.
All contamination has been removed. No further treatment required unless re-oiled. Signature of Coast Guard rep
XC: ADEC

PINNIPFO HAULOUT

SHORELINE OIL EVALUATION

Date: 4 21 189	Observer: C. DILLON
Time: // h 30 m	Weather: Sun/Cloud/Rain/Snow/Fog
LOCATION	
LOCATION LITTLE SMITH ISLAND	SITE Norther, T
LOCATION PREFIX	SEGMENT NUMBER LS-49
LATITUDE: 6 O d 30.0 m s	LONGITUDE: 147 d265m s
LENGTH OF SHORELINE SEGMENT:	
ACCESS: FOot/VEhicle/BOat/BArge/E	iElig/Float Plane
SHORELINE:	6 very altheur-must be to the
SHORELINE CHARACTER:	- •
BEach/SPit/COve//	.
Wave Exposure: High/Med/Low	
ROCK YN \$ Vertica	al/High Angle/Low Angle
ROCK YN % VErtica SEdiment YN % 100 Types:	B/C/P/G/S/M/R
Strand Line Y/N Algae/Deb	oris/Logs
OIL	
LOCATION OF OIL: SU / SP / H / (No #
CONTINUOUS: YN WIDTH OF BAND:	m & of Segment 60 must
PATCHY: 10/20/30/40/50/60/70/80/9	00% coverage % of Segment
EST. OIL THICKNESS: 2/ cm EST	oil penetration: <u>L2</u> cm
POOLED OIL: Y/N "FREE" OIL:	Y/N WEATHERED: Y/N
STRAND LINE CLEAN/OILED MA	_
SUMMARY OILING: Amount High Me Coverage Extensi	d/Low ve/Moderate/Light
comments: Couldn't land helicopter.	Aeril enveillance only
M Yery low, som altitude	wy stur stercy.

SHORELINE CLEANUP PROGRAM

DATE: April 22, 1989	SHORELINE SEGMENT LG-50
LOCATION: (see enclosed map) Southw	vest Little Green Island
ADEC No.	
SHORELINE ASSESSMENT DATE: 4-21-8	9
Recommended Cleanup Activity(ies): No cleanup recommended	
Priorities Considerations: Pinniped haulout area .	- •
Ecological Constraints (from site s None other than identifie Cleanup".	urvey): d in "Guidelines for Shoreline
	ltural material is uncovered, Mobley as per procedures in the
Mula 2 / State Historic Preservation Officer	Date: 4/23/89
EXXON:	Date:
FOSC:	Date:

 $[\]star$ Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands .

SHORELINE OIL EVALUATION [revised 17 Apr 89]

Date: 4 1 21 189	Observer: C. Diwon
Time: 11 h 00 m	Weather: Sum/Cloud/Rain/Snow/Fog
LOCATION	
LOCATION LITTLE GREEN ISLAND	SITE SOUTHWEST
LOCATION PREFIX	segment number <u>LG</u> - \$50
LATITUDE: 6 / d /3.8 m s	LONGITUDE: 147 d 3/4 m s
LENGTH OF SHORELINE SEGMENT:	500 m
ACCESS: FOot/VEhicle/BOat/BArge	(HElio)Float Plane
SHORELINE:	
SHORELINE CHARACTER: Shellow	
BEach/SPit/COve//_	
Wave Exposure High Med/Low	
ROCk Y/N % /O VErtic	cal/High Angle/Low Angle
ROCk Y/N % /O VErtice SEdiment Y/N % 90 Types	B/C/P/G/S/M/R
Strand Line Y/N Algae/De	abris/Logs
OIL	
LOCATION OF OIL: SU / SP / H /	M/L CLEAN AT SURVEY TIME
	D:m % of Segment
PATCHY: 10/20/30/40/50/60/70/80	/90% coverage % of Segment
EST. OIL THICKNESS:cm E	ST. OIL PENETRATION:cm
POOLED OIL: Y/N "FREE" OIL:	Y/N WEATHERED: Y/N
STRAND LINE CLEAN/OILED	
SUMMARY OILING: Amount High/	
CLEAN	sive/Moderate/Light
COMMENTS: Entire bead-cove s	ignent had virtually undetectable a few cubbles only. Very clear
remnants of oil droplets on	a fac coords chay very

SHORELINE CLEANUP PROGRAM

DATE: April 22, 1989	SHORELINE SEGMENT AB-51
LOCATION: (see enclosed map) Agne	s (Bass) Island (entire)
ADEC No.	
•	
SHORELINE ASSESSMENT DATE: 4-21-8	9
Recommended Cleanup Activity(ies) Small boat survey and sp as necessary.	: ot clean with appropriate methods
	- •
Priorities Considerations: Pinniped haulout area .	
Ecological Constraints (from site Avoid destruction to al	survey): gae holdfasts and mytilus beds.
	cultural material is uncovered, . Mobley as per procedures in the
Maile Efformer State Historic Preservation Office	Date: 4/23/89
EXXON:	Date:
FOSC:	Date:

 $[\]star$ Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands .

SHORELINE OIL EVALUATION [revised 17 Apr 89]

	Date: 4 2/189	Observer: C.DILLON
	Time: 08 h 40 m Wea	ather: Sun/Cloud/Rain/Snow/Fog
	LOCATION	
	LOCATION AGNES BASS) ISLAND S	SITE ALL (ENTREPERMENER)
	LOCATION PREFIX AB	SEGMENT NUMBER 48-\$51
	LATITUDE: 6 D d 39 m s	LONGITUDE: 147 d 22.2 m s
	LENGTH OF SHORELINE SEGMENT: 1/00 - /2	200 m
	ACCESS: FOot/VEhicle/BOat/BArge/HEl	lig/Float Plane
	SHORELINE:	Siffiant - possibly ablitoland at very low tide.
	SHORELINE CHARACTER:	
	BEach/SPit/COve//	
	Wave Exposure: High/Med/Low	
	ROCK YN % 20 Vertical/	/High Angle/Low Angle
	SEdiment YN & 80 Types: B	/C/P/G/S/M/R
	Strand Line (Y)N Algae/Debri	Ls/Logs
	OIL	
	LOCATION OF OIL: SU / SP / H / M /	
- 0.00	CONTINUOUS: Y/N WIDTH OF BAND: _ PATCHY: 10/20/30/40/50/60/70/80/90%	m % of Segment
	WEST. OIL THICKNESS:cm EST.	
ANMON		
	POOLED OIL: YN "FREE" OIL: YA	MEATHERED: IN
		(Tau)
	SUMMARY OILING: Amount High/Med/ Coverage Extensive	Moderate Light
	COMMENTS: UNABLE TO LAND HELD.	RECOMMEN SMALL BOAT
	SURVETLLANCE. (SLAND)	APPEARED MOSTLY CLEAN
	FROM AIR EXCEPT FOR A FROM DOCUMENTATION AT THIS TIME C:\WP\DATA\SHOREVAL.1 PAI VESSE	EW SMALL, LOCALIZED PATCHE
	C:\WP\DATA\SHOREVAL.1 Pal VECET	1 ACCEPTED SURVEY

PINNIPED HAULOUT BLOCK

5M47-1

SMITH ISLAND

LS-49
LITTLE
SMITH
ISLAND
LS-48

Smith

= Shoreline Segment

PINNIPED HAULOUT BLOCK

GREEN ISLAND

Green I.

LITTLE GREEN ISLAND

= Shoreline Segment

PINNIPED HAULOUT BLOCK

NAKED ISLAND

GNES ZAGNES I.

= Shoreline

COPY:

EXXON ADEC FOSC ISCC

Zoul7			TREATMENT MAN	JAL, 6/15/89
SEG SM47 INS		SEGMENT		
DATE 8/11/89	INSPE	CTION RECOR	D	,
Shoreline X X	Treatment Process Hot water wash Warm water wash	Mecha	for this Segme unical ROMPON pechanical SNAIZE	
Y	Water deluge		BIOREMEDIA	
Exxon		Culci.	DIO TIME	17000
	is indicated above has	been completed.	Request demobili	zation
from this se	_			
Cor	mments SEAL INVLOUT	AECA N EAST	דום אל אל דו	BUND
-		/		
Sign	nature Topyand Ale	14 T	Date: 8/11/97	ime:
Prin	ited Name LEONARD	HERBST		
				
Existing S	Shoreline Condition	As Visually De	termined by US	CG
	Surface Oil		Subsurface Of	1
	Percent Degree of	Olling		•
usc6	ADEC.	Oning	Yes [] No
5			;	
	Heavy	Co	mments MINIR \$	ibsuloce oiling.
20	35 Medium		ea -is Direc	il at be lock
· <u>50</u>	40 Light	ين	ith small =	ches or Granel
20	S Very Ligh	16 <u>6</u>	etween solt	5. 0
5	5 None			
	100 %			
Reassess	ment			
X	Yes - necessary (next:	Som No n	ot necessary unless r	e-oiled
ADEC rep	Comments Alex ha	s been eveate	d with Bioren	rediation.
•	This area is a s	ical haul-out &	should be me	initioned be
	Fish & Grame. Deadle			
		9 herwing	Date: 9/2/89T	
		- (()	Date. 1 1/2/871	шіс. //: 43
	Printed Name Wesle	y Chormley		
FOSC rep	Demo	bilization , appr	oved/disappro.	/ed ~ / /
	Comments side le	es been treated		iene Teinit-for
,	Cleaning has ex	sind He Juiche	Marken - allo	wed due to began
•	Signature G.A.	· Keita	Date: \$ 1/2/89	Time: //2/5
•	Printed Name G.A	1. RIEITER	CDR USC	
1				\ \

EXXON VALDEZ

SHORELINE TREATMENT APPROVAL

SHORELINE SEGMENT NUMBER SM-47
SHORELINE SEGMENT NAME Smith Haulout
SUBMITTED FOR APPROVAL _5/15/89
COMMENTS: Environmentaly clean
Signature of Exxon rep
ADEC comments on the condition of this shoreline segment and action recommendation.
HDEC not present
Signature of ADEC rep
Coast Guard Comments and Action.
Completed removal of gross contamination to the extent that the oil will not migrate. Site will require reassessment at a later date to determine future treatment.
The majority of surface oil contamination has been removed. The site will require reassessment at a later date to determine future treatment.
All contamination has been removed. No further treatment required unless re-oiled. Signature of Coast Guard rep
C. PDEC

R

EXXON VALDEZ

SHORELINE TREATMENT APPROVAL

SHORELINE SEGMENT NUMBER	LS-48
SHORELINE SEGMENT NAME	Little Smith Haulout
SUBMITTED FOR APPROVAL _	5 10 89
COMMENTS: Environmentaly	clean
	Signature of EXKON rep
ADEC comments on the cond recommendation.	ition of this shoreline segment and action
ADEC Representation	De was not present.
	Signature of ADEC rep
Coast Guard Comments and A	Action.
Completed removal of the oil will not migrate. later date to determine fu	gross contamination to the extent that Site will require reassessment at a sture treatment. Junear 5/8/89
The majority of surfa The site will require reas future treatment.	ce oil contamination has been removed. sessment at a later date to determine
All contamination has required unless re-oiled.	been removed. No further treatment Signature of Coast Guard rep

(version 8/04/89)

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Location (see enclosed map): PINNIPED HAULO	UT BLOCK
(REASSESSED)	
Includes Shoreline Segments: LS-49R	
Submitted: (for Exxon)	Date: <u>8/5/89</u>
ISCC Recommendation:	Date:
FOSC Approval:	Date:
The cleanup procedures identified in the Shore are recommended. Modifications to these system field. Exxon and other field personnel are exinted in the same of the consultations and productivity enhancements to representative. The OSC's representative has approve on-site modifications. The Field Resconsulted if these actions do not fit with Constraints of the Shoreline Cleanup Programs afety and the protection of cultural material	ms can be made in the ncouraged to suggest the OSC's on-scene as the authority to ource Team should be thin the Ecological m. Requirements for
Distribution: Exxon Shoreline Coordinator Exxon Shoreline Supervisor Exxon SCAT file	

DAAC

SHPO FOSC

CDFU

NOAA

EPA

USDA (FS)

USFW

A.DEC

A.FG

A.DNR

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Location (see enclosed map): PINNIPED HAULOUT BLOCK
(REASSESSED)
Includes Shoreline Segments: LS-49R
Submitted: Date: 8/5/89
(for Exxon) ISCC Recommendation: Sharon K Christophus Date: 8/7/89 FOSC Approval: Date: 8/7-89
FOSC Approval: Date: B/y-89
The cleanup procedures identified in the Shoreline Cleanup Program are recommended. Modifications to these systems can be made in the field. Exxon and other field personnel are encouraged to suggest innovations and productivity enhancements to the OSC's on-scene representative. The OSC's representative has the authority to approve on-site modifications. The Field Resource Team should be consulted if these actions do not fit within the Ecological Constraints of the Shoreline Cleanup Program. Requirements for safety and the protection of cultural material must be observed.
Distribution: Exxon Shoreline Coordinator Exxon Shoreline Supervisor Exxon SCAT file

SHPO FOSC CDFU NOAA EPA USDA (FS) USFW A.DEC A.FG

A.DNR

1/A

SHORELINE CLEANUP REASSESSMENT

DATE8	3/5/89		:	SHORELINE	SEGMENT:	LS-49R	
REASSES	SSMENT	DATE	8/4/89	-			
PURPOSI	E FOR	REASSES	SMENT	L5 WEEKS	SINCE INI	TIAL ASSESSI	<u>ENT</u>
Revised	l Reco	mmended	Cleanu	Activit	y(ies):		
bead - Use	ch if moder	access pate to b	permits high pro	essure wa	er (up to shing on : ppropriate		low angle
	2-4:	onsidera Heavy to Resource	light	oil			
Work at	t mid idal	ogical (tide + zone.	or take	appropr	iate measu ance to	res to prot seabird co	ect lower blony and
If headuring	retofo clean action	re und: up, con s pres	iscovere tact Ex cribed	xon's Arc	cheologica Operatio	rials are il Field Dir onal Guidel	ector and
Ona	yler	Z HA	mez	n Officer	*	Date: Aug	1989 1989
		m K.C		•	ر	Date: 8/	•
EXXON:_			10/	<u>+</u>	<u> </u>	Date: 8/7/	
FOSC:_		2/	ala-	-	<u> </u>	Date: 3	<u> -85</u>

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

SHORELINE OIL EVALUATION

Date: 8/4/89/ Time: 09.10 Observer: G. MACDONAND
Surveyed From: Foot Boat Helio/Plane Weather: Sun/Cloud/Rain/Snow/Fo
LOCATION
LOCATION N. CORET of Little Smith I. SEGMENT NUMBER _LS- 49R
LENGTH OF SHORELINE SEGMENT:
ACCESS: Foot/Vehicle Boat Barge Helio/Float Plane suly.
SHORELINE: Small.
Shoreline Type:SPI BEA/COV/HLD/STRT Slope: LANG/HANG/VER
Wave Exposure: High/Med/Low
Sediment: B 50% / C 10% / P % / G % / S % / M % /R 40%
Drift Debris on Beach: Yes No Supra/Upper/Mid/Lower Type
OIL pocketonly.
Degree of Oiling: (Heavy/Moderate/Light/No Oil/Unobserved
Area of Beach Impact: SU / SP /H / M / L
Continuous: YN % of Segment_80 Width of Band:m
Sporadic: Y/N % of Segment
Est. Oil Thickness where > 1cm:cm
Pooled Oil:
Fresh
Drift Debris Oiled ? Yes No Supra/Upper/Mid/Lower Amount: H/M/L/
Comments:
Heavily siled bocker 15m x 30m on NW and of
Heavily siled bocker 15m x 30 m on NW end of Little Swith; jagged tock nearby - owni-sweep
would reach at > mid. tide.

ח	O	CI	IN	1E	N	ΓΛ	T	T	OI	V	•
_	v	v	Ų,	14	44	4 (1		_	v		

 Map/Aerial pho	t o marking se gment bou	ndaries Attacha	<u>-d</u>
VTR: YN	Tape Number(s)		• •
Photography:	:	i) TSG4 (23-28))
Sample Numbers	Collected:	MOHE	

Segment LS-491 09.10 exposed rocky now soft tor; HITZ : heavily oiked Mos A

TOCATION. Pring Will St COM. 1:11/ C:11/ C:11/
LOCATION: Prince William 81 SITE: Little Smith to. OBSERVER: E.R. White
LOCATION PREFIX: LS SEG. NO.: 498 LENGTH: 620 (M)
DATE: 08 / 151 TIME (HHMM): 0920-(0000 TIDE HT.: 0.00.3 (M)
OILED ZONE: Splash Righ Medium Low
SUBSTRATUM: Rocks Boxlder Cobble Gravel Sand Mud
LIVE BIOTA
Fucus (algae): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
continuous -deuse on rock/ sparse on boolders / diverse + healthy algal community
Mytilus (Mussels): Patchy @/N Contin. Y/N Dense @/N Sparse Y/N None Y
occaisional douse mossel bads on moth of on beaches
Balanus (Barnacles): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y
B. dandula continuous throughout; B. caviosos - sometimes deuse - or mid low
intertidal elevations
Patchy Y/N Contin. TN Dense Y/N Sparse Y/N None Y/N
mostly at high - super dital elevations (splash zone)
Limpets: Patchy Y/N Contin. W/N Dense Y/N Sparse Y/N None Y/N
mostly at mid- low inter tidal. devations
OTHER OBSERVATIONS: kelp beds offshore
CLEANUP PRECAUTIONS: clear all activity with ADFIG for USFIWS TE:
scalaire at harlost / minimize disturbance to lower interbe
MAMMALS: On Marbor Seals 15-20 Sea Lions Whales
MAMMALS: On Harbor Seals 15-20 Sea Lions Whales
BIRDS: 10-15 to Hed ou Phins; 20-30 horned pullins; is pidgeon quillemots; murrel
GENERAL OBSERVATIONS:

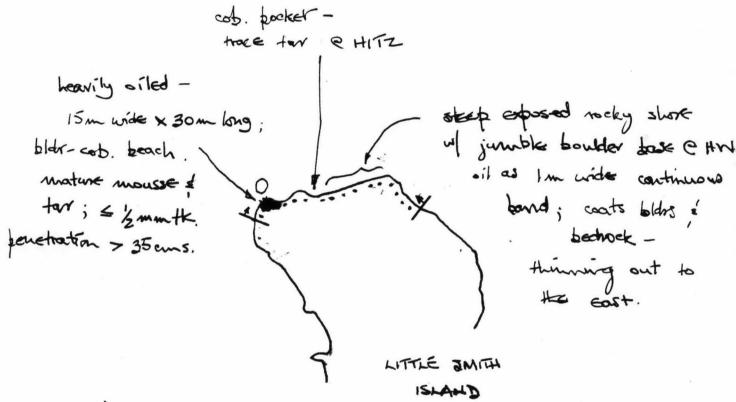
CULTURAL RESOURCE EVALUATION

Date 8-4-89 Location Little Smith Is. site North Coast
Location Prefix LS Segment # LS-49R Length 620m
Survey Method:
Air (A - indicate on map) Boat V (95%) (A - indicate on map
Ground (5%) (G - indicate on map)
Known cultural resources (AHRS #) home Data Source AHRS
Oil conditions/beach visibility Trace to Heavy, good visibility
Width of beach zone surveyed 20 m Tree fringe surveyed 0m
Cultural resources observed in beach zone (AHRS code)
Cultural resources observed in tree fringe (AHRS code)
General observations justifying survey method and segment's site probability:
Shore Profile Very Skep high Vertral chiffs
Fresh Water Sources None observed
Sea Exposure High energy shore the, NW 1. N exposure
Access/Safety fair to poor.
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 # MA Frames_
Observer(s) Washington
Time survey ended 0955
Cultural *** Considerations/restraints: STANDARD

SEGMENT LS-49R

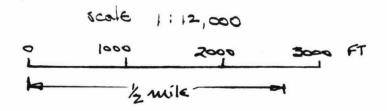
8/4/89 a.m.

G. MACDONALD.



KEY

: light al



G SEGMENTE SEGMENTE SINSPECTION F	TREAT ENT MANUAL, 6/15/60
Shoreline Treatment Process(es) Com Hot water wash Warm water wash Water deluge	Pleted for this Segment Mechanical Non-mechanical Other NO ACTION TAKEN
from this segment SEAL HAULOUT ABEA	
Signature formal Heit	Date: 8/11 月 Time:
Existing Shoreline Condition As Visua	ly Determined by USCG
Surface Oil Percent Degree of Oiling	Subsurface OII Yes No
20 Heavy 15 Medium 45 Light 10 Very Light None	Comments Hard bedwork under Donge rocks
100 % Reassessment	
Signature Wester Alkernelies	eal haul out & should
Signature Thomas O. Condler	1 1- 1 11

EXXON VALDEZ

SHORELINE TREATMENT APPROVAL

SHORELINE	SEGMENT NUMBER	L3-47	
SHORELINE	SEGMENT NAME	Little Smith	Haulout
SUBMITTED	FOR APPROVAL _5	14/ 89	
COMMENTS:	Environmentaly c	lean	
	• .	_1	Signature of EXXON rep
ADEC comme recommenda		tion of this s	shoreline segment and action
ADEC A	representative	was not pr	esent CAR
			Signature of ADEC rep
Coast Guard	d Comments and Ac	ction.	
the oil wil	ll not migrate.	Site will req	ation to the extent that uire reassessment at a
The ma The site wi future trea	ill require reass	e oil contami essment at a	nation has been removed. later date to determine
All corequired un	entamination has aless re-oiled.		No further treatment Shyley gnature of Coast Guard rep

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Location (see enclosed map): LITTLE SMITH ISLAND BLOCK
Includes Shoreline Segments: LS-60, LS-61
Submitted: Date: 8/17/89
ISCC Recommendation: Jacque C. Michel Date: 8/23/89 FOSC Approval: D. V. Cranca Date: 8-23-89
The cleanup procedures identified in the Shoreline Cleanup Program are recommended. Modifications to these systems can be made in the field. Exxon and other field personnel are encouraged to suggest innovations and productivity enhancements to the OSC's on-scene representative. The OSC's representative has the authority to approve on-site modifications. The Field Resource Team should be consulted if these actions do not fit within the Ecological Constraints of the Shoreline Cleanup Program. Requirements for safety and the protection of cultural material must be observed.
Distribution: Exxon Shoreline Coordinator

Exxon Shoreline Supervisor Exxon SCAT file

SHPO

FOSC

CDFU

NOAA

EPA

USDA (FS)

USFW

A.DEC

A.FG

A.DNR

CAC

PWSCA

USFS SCAT

LITTLE SMITH ISLAND BLOCK LS-GO, LS-G1

USAWS 8/18/89 STABIRD COLONY (200 birds) Felix A LS-61 L5-60

SHORELINE CLEANUP PROGRAM

DATE8/16/89	SHORELINE SEGMENT LS-60
LOCATION: (see enclosed map) LIT	TLE SMITH ISLAND-WESTERN
SHORELINE (LITTLE SMITH ISLAN	ID BLOCK)
ADEC NOSHORELINE ASSES	SMENT DATE: 8/13/89
Recommended Cleanup Activity(ies): -Bioremediation of pebble/cobble a -Moderate to high pressure/warm to heavily oiled portions of this se -If cleanup is delayed more tha reassessment should be made of before cleanup is begun.	reas. hot water washing to clear the gment. n a few weeks after 8/13/89,
Priorities Considerations: . 2A	
Ecological Constraints (from site All cleanup activity should occur Minimize boat traffic through kel haulouts, falcon nests, and puffin	when tide level is >+3.0 feet. p bed and stay away from seal
Archeological Constraints (from since No upland access. If heretofore undiscovered cult during cleanup, contact Exxon's Actake actions prescribed in the Shoreline Cleanup dated 4/21/89 as	cural materials are uncovered rcheological Field Director and e Operational Guidelines for
State Historic Preservation Office	Date: 8/17/89
ISCC: James Michel EXXON: Done Done	Date: 8/23/89
FOSC: D. F. Ciana	Date: 8.73-89

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

SHORELINE OIL EVALUATION

Date: 8 13 89 Time: 6.15 Observer: G. MACDONALD
Surveyed From: Foot Boat Helio/Plane Weather: Sun Cloud Rain/Snow Foot
LOCATION
LOCATION Wesper Little Smith Segment number LS-60
LENGTH OF SHORELINE SEGMENT: ~ 550 m
ACCESS: Foot/Vehicle Boat/Barge/Helio/Float Plane
SHORELINE:
Shoreline Type:SPI/BEA/COV/HLD/STRT) Slope: LANG/HANG/VER
Wave Exposure: High Med/Low
Sediment: B 20 1 / C 1 / P 1 / G 1 / S 1 / M 1 /R 70 1
Drift Debris on Beach: Yes(No Supra/Upper/Mid/Lower Type
OIL
Degree of Oiling: Heavy Moderate/Light/No Oil/Unobserved
Area of Beach Impact: SU / SP / H / M / L
Continuous: YN t of Segment Width of Band:m
Sporadic: YN & of Segment " 30%
Est. Oil Thickness where > 1cm:cm
Pooled Oil: * "Free" Oil: <pre></pre>
Fresh * Mousse TLACE * Tar Formation: 100 *
Drift Debris Oiled ? Yes No Supra/Upper/Mid/Lower Amount: H/M/L/
Comments:
Tor is brown - black, soft - tecky; as this
coail < I min thick; bednek i longe bouldest are up
to 30% self dromad since April 20th, especially in cab- bed
ever bedrock ares.
Faint detagent about & "Docky" feel to ter - decontam"
agent - 15 km successful hat our treaking down tour
and or preventing drying.

Map/Aerial phot	to marking segment boundaries
VTR: YN	Tape Number(s)
Photography:	Y(N) Roll Number(s)
Sample Numbers	Collected: Merk

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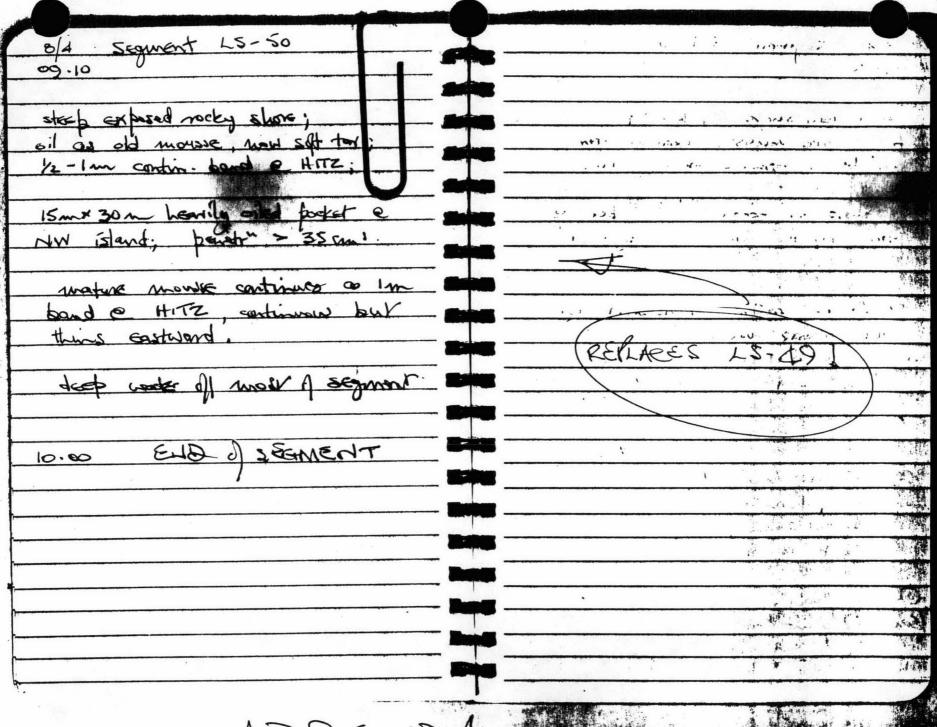
8/13/87 a.m 20 HALBOUR SEALS G. MARDONALD Little Smith Island. about 15% oil reduction has since 8/4/89 L5-60) & L5-61 test site: steep cob packet over bednock Im & 30 m tov coat e 3/ 200 BULLKELL 15-49 (4.21.89 € 15-50 \$ 8.4.89 bldr-color beach, W.C., ord bedrock; "wet "tor O 5mx 15mx 20m blor-cob over b. ter stain/conv. Stow 12-1m HIZ-SI doo-ded Iv. Ivg. bur lace 15 hytin bler-cab over b. nock. 1 kxquizi I vertrock 1-3m band. and brink; 8 × 20 × 10, Self-deaning. boulder amount ord pph-cap ora bedrade - self-ckan. L5-61 gul-peb. strand, behock, Bux 50 mx 10 cm SHEEN, BULLKELL for conted & HITZ - supra coat, 15cms. 5 mm 70 m "wet" ton coat on cob. did OVER bedrock @ Up. HITZ > supra. bounder-cob vencer over bredvock; e stellar Sealing. 7mx Kom x 10cm tor coaled.e H172. cab-peb. packer, about 70% oil reduction since mooil. April 20th Lext. In wide continuous torr bound e HWL-SP-# HEAYY OIL 10 HALBOUX affects worn washed. MUD. CIL SEALS. ". trace eil

ECOLOGICAL EVALUATION

LO	CATION	Prince WI	win Sound SITI	: Little Smith	Island o	BSERVER:	5. Dearn	
LO	CATION	PREFIX:_	SEG.	No.: 15-6	60 L	ength:	850	(M)
DA	TE: 08	13/89	TIME (HH	IM): 0615 - 070	S TIDE	HT.:	0-2.0 ft	_ (4)
OI	LED ZON	E: Splast	High Med	lium Low				
su	BSTRATU	M: Rocks	Boulder	obble Grav	Sand	Mud		
LI	VE BIOT	ZA						
12 10	cus form	gae): Pats sed pertons	chy Y/N Co	ontin. Y/N I	Dense Y	N Sparse	Y/N None distillation	plants in
Sm	tilus (mall patch socky be nt - mode	Mussels):	patchy Y/N s are found a base of bould	long the vartes	N Dense south of persons	vocky out	espoints + come individue	None Y/ on ledges als are
W	per 0.5	n. of bornact	دع مر المربعة	/N Contin.	atery oil	ed . Dead	ndividual	are free
Pi Lir	Horizon a	Y/N Cont present the	roughout segue	nse Y/N Spa	ntuja unife	orn distrib		ance i
Li	mpets:	Patchy (Y/	N Contin.	Y/N Dense	M Spai	rse(Y/N	None Y/N	often
-	marge une	widels an	- bound beneat	in algal bla	es impets	ac also	dividuals are	present
OT	HER ORS	ERVATIONS	· Jeagnass bear	+ Mup beds per	and in hear	SHAL MACES	· Genophones	+ 1814 hs
tre	e roots.	30+ hurbor	seas 4 1 p	the putting +	sighted in	adjacent:	sagments PSE	E MAP)
Inte	ars (Pisas)	Janisms bols	oil (it - mid	niertaal feed in	realty. 2	o-armed seas	ters (rychelpod	14) 4 Och
CLI	PANTID D	DECREETON	e - Amid mid -	law intertidal 20 hat an unkn	med nostra	is outhin t	equa (SEEMIF) + subt
ap	oplied to	LOCK MOM	e areas menta	ugh 172 the se	zemo 70 be	- rearrang	019 W/ VA	ery mini
(,	MMALS:		Harbor	Seals	Sea Lior	IS	Whales	
BI	RDS: 04	ster Catchers 4	- nesting tags	15 entences to neets ed a horned fu	fins mune	one Withui	Kes + glancon	es-vinged g
GE	NERAL O	RSERVATIO	NS: A health	y new mid.	+ni حدا -	cital son	e with man	4 specie
0	algae &	inverts is	present with	in this segm	ent n. Nes	iting putting	(tufked + hor	ned) Shall
C1.	L 101 30	a Arass bed	A + shore hel	DEUS NEPERL	15/15/14 X	diverse "	110 - 1000 UN	The
ma	the this	a very ea	logically sensitive	re area;	newbo	harbor se	d haulouts +	a resting
					pereg	rine falcon		

CULTURAL RESOURCE EVALUATION

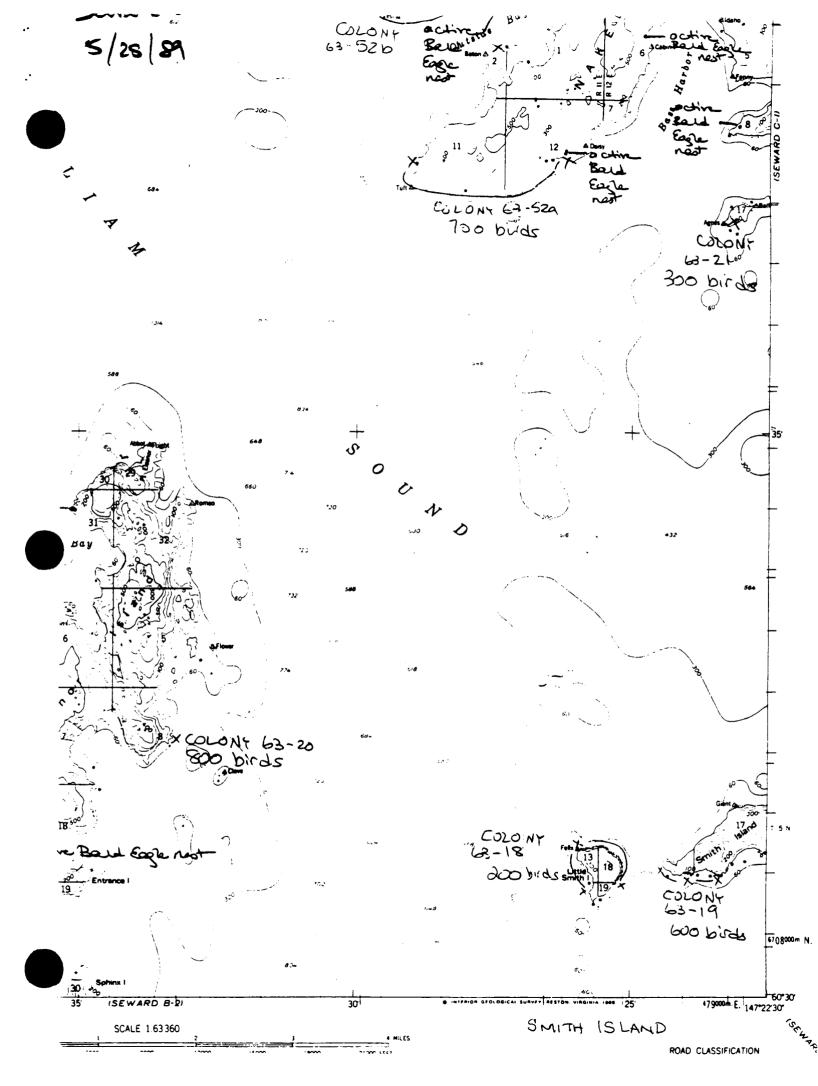
Date 8-13-89 Location Little Smith Is. site
Location Prefix LS Segment # LS-60 Length ~ 850 m
Survey Method:
Air(A - indicate on map) Boat(A - indicate on map
Ground (G - indicate on map)
Known cultural resources (AHRS #) Data Source
Oil conditions/beach visibility med to heavy good visibility
Width of beach zone surveyed 5-/0 m Tree fringe surveyed 10-20 m
Cultural resources observed in beach zone (AHRS code)
Cultural resources observed in tree fringe (AHRS code) CMT'S (3)
General observations justifying survey method and segment's site probability
shore Profile Steep vock walls, mod angle borble cobbbe pocket
Fresh Water Sources none observed
Sea Exposure west southwest high energy
Access/Safety poor to fair access, moderately safe
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 Frames
B/W Roll # Frames
Observer (s) Phippen
Time survey ended 0005
Cultural resource considerations/restraints:
failed -

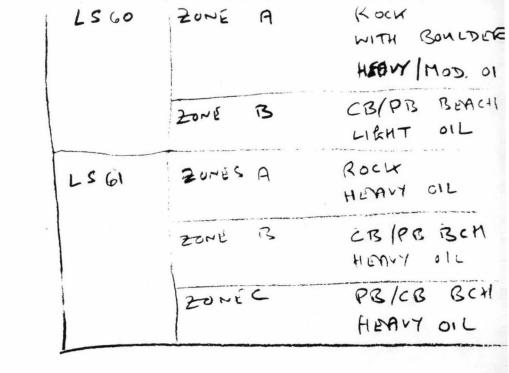


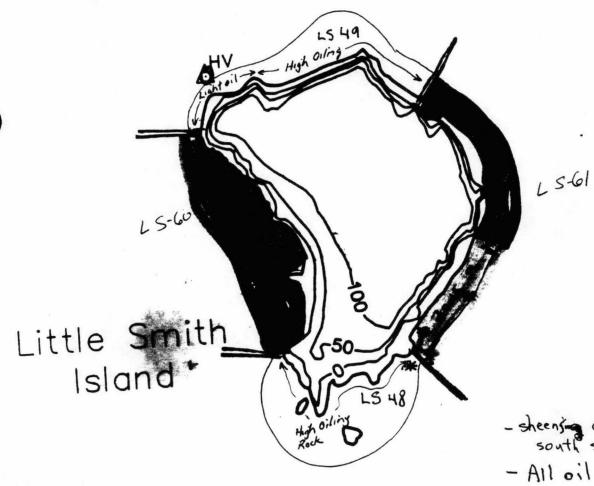
ADDENDA

大大大

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- sheering about 1/2 mile off south shove

MOD.

HEHT

- All oil in mid and upper intertided

- Fucas/barnowcles in lower intertidul mostly off the rock aboutder zones - appeared healthy

8

SHORELINE CLEANUP PROGRAM

DATE 8/16/89	<u> </u>	SHORELINE	SEGMENT	LS-61
LOCATION: (see encl	osed map) <u>LITT</u>	LE SMITH	SLAND-EAST	COASTLINE
(LI	TTLE SMITH ISLAN	ND BLOCK)		
ADEC NO.	SHORELINE ASSESS	MENT DATE	8/13/89	
Recommended Cleanup -Moderate to high recommended to clea -Bioremediation is segmentIf cleanup is delay reassessment shoul	pressure/warm r the heavily of recommended for yed for more that	lled portic pebble/col	ons of this oble portion eeks after	segment. ns of this 8/13/89,
before cleanup is be	egun.	.ne amount	OI Sell-C	realiting
Priorities Consider	ations: '			
Ecological Constraint Constraint Coleanup activities Minimize boat traffor Company Constraint Conference of the Conference of Co	s should take ic through kelp ple as far as p	place at beds.		
Archeological Const. If heretofore und during cleanup, con take actions presshoreline Cleanup d	iscovered cultu tact Exxon's Ar cribed in the	ral mater cheologica Operatio	rials are l Field Dir nal Guide	rector and lines for
State Historic Pres	rvation Officer		Date: 8/1	17/89
ISCC: Jaquel	2-michel		Date: 8/	23/89
EXXON: Samuel Q	Tito		Date: 8.2	3-89
FOSC: 3.8. C.	aneog L		Date: 8-2	

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

SHORELINE OIL EVALUATION

Date: \$13/89 Time: 07.05 Observer: G. MACDONALD
Surveyed From: Foot/Boat/Helio/Plane Weather: Sun/Cloud/Rain/Snow/Fo
LOCATION
LOCATION & COOK 1 Little Smit SEGMENT NUMBER LS-61
LENGTH OF SHORELINE SEGMENT: ~ 900 m
ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane
SHORELINE:
Shoreline Type:SPI/BEA/COV/HLD/STRT Slope: LANG/HANG/VER
Wave Exposure: High/Med/Low
Wave Exposure: (High/Med/Low Sediment: B 0 / C 0 / P 0 / S / S / R / R / R / R
Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type
OIL
Degree of Oiling: Heavy Moderate Light/No Oil/Unobserved
Area of Beach Impact: SU / SP / H / M / L
Continuous: YN % of Segment Width of Band:m
Sporadic: (Y)N tof Segment < 25/
Est. Oil Thickness where > 1cm:cm Est. Oil Penetration:cm
Pooled Oil:
Fresh * Mousse * Tar Formation: 100 }
Drift Debris Oiled ? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L/
Comments:
Decontinuostia agent - soap adour - "retting agent" princtiation to bidrock of breaks down to coar to stain
thickness or less; the

Steep roday shore of his confisione

(Map Aerial phot	to marking segment boundaries Atlantic	_
	VTR: YN	Tape Number(s)	_
	Photography:	Roll Number(s)	_
	Sample Numbers	Collected:	_

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60 2	He sale		ملم	8/13 Segment LS-61
žii A.	· · · · · · · · · · · · · · · · · · ·			07.05 HKS.
	1 ·			
A L	· Kill Sales	¥:	s	11 m × 110 tob-blow beach over b.r.
投事	وهب درام			lowed 8+m are self-dearing in
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				said beach of cots born beginning
22.63				C wher HITZ;
**************************************				wet tar coat Q up. HTZ- wash;
	1 11.50			SMX 60 m x 20+0m3;
12 12	1 11			_ coat < 2mm tk;
				gyl strand e strane oiled in
CONT. CO.	· · · · ·			pant; generally 0-10 cms banating
Ha h	a de la companya della companya della companya de la companya della companya dell	Y		trace - light sout
	ations.	200		" wetting" agent persetrates to
and water		N 64 10 15	#	bethock and is breaking down
25	4. 1. 10 1 1 2 . 2 . A	1 301 500		tar coat to stain thickness or
***	m 27 11 11	- i - 1 '~		less (2 mm). Also at usork</td
	·	· · · · · · · · · · · · · · · · · · ·		in channels i trais in bedrock.
		· · · · · · · · · · · · · · · · · · ·		excellent oil zous contact correge.
**	2	" · ·		
44				
	in wroming to a	4		07.55 END of SECOMENT
	1 1/2 C	Lare Bor		seas building to 2
12. 28. 1.				U
1.6	- 4		مسلم	

8/13/89 a.m G. MARADHALD Little Smith Island. about 15% oil reduction has since 8/4/89 L8-61 20 Harrbour Stall test site: steep cob. pocket over bedrock Im & 30m tov coat e 51.20 15-49 14.21.89 £ 15-50 \$ 8.4.89 blow con week Will, eres bednede; "wet "tor D 5mx 15mx 20m bldr-cab over b. Stain Salar HITZ-SI tor stain/coor. ~15 Puffin - 11 mx 16 mx 30 derded in lyp. bur less bldr-cob over b. nock Therenock 1-3m band rests . w brack; 8 × 20 × 10, pph-cap over pouder amount over bedwide - self-clean. gol-beb. strand, Schoole, Bux 50 mx 10 cm soft wet "tow ton cooled & HITZ - supra SHEEN coat, 15 cms. 5 mm 70 m "wet" tor coat on cob. Ild OVER bestrock @ Up. HTTZ - Supra. 8 Stellar Sealions boulder-cob vened only track. The Kon x 10cm for coaled@ サルてユ cab-pab. backer, about 70% oil reduction since April 20th Lest. In wide continuous tor bond e HNL-SIafficient worm / woohed. NOD. BOM 10 Handow Scals. trace oil

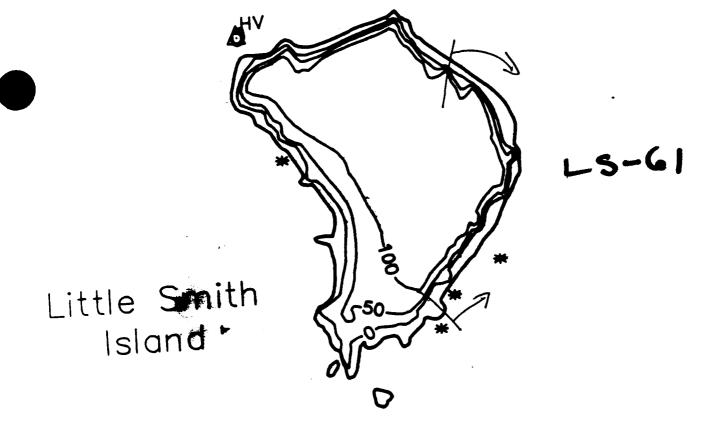
ECOLOGICAL EVALUATION

LOCATION: Prince Wilham Joine SITE: Little Smith Toland OBSERVER: 5. Dearn
LOCATION PREFIX: SEG. NO.: LS-61 LENGTH: 900 (M)
DATE: 08 /13 / 89 TIME (HHMM): 515 -0755 TIDE HT.: 20-30 H
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
Dense in places - frimarily on rocky headlands + on larger boulders.
Mytilus (Mussels): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
Dense patones of mussels are on side of racky outers page.
Balanus (Barnacles): Patchy (Y)N Contin. (Y)N Dense (Y)N Sparse Y/N None Y/N
Barnacles form desse containons band on headland points + on tops + side of bouldes
Littorina Patchy Y/N Contin. YN Dense Y/N Sparse YN None Y/N
Littorine are scalled thoughout the high intertidal region of this segment
Limpets: Patchy (Y)N Contin. Y/N Dense Y/N Sparse (Y/N None Y/N
OTHER OBSERVATIONS: Kelp bads in nearby shellow subtidal areas (Nereocyptis + Pleurophycus)
Rich mid-low intertidal zone. High wave exposure area.
CLEANUP PRECAUTIONS: Clean only at tides greater than 13.0 ft. Avoid boat traffic
though Kelp hads. Maintain 300 ft distance from shore near feregrine follownest that low seal temports in adjacent segments (8EE MAP).
MAMMALS: Otters Harbor Seals Sea Lions Provide Whales
BIRDS: Kithinkes + Prigeon guillenots offehore 1 persyrine falcon W/rest observed in adjacent seguine
GENERAL OBSERVATIONS: Segment is exposed coastline + has form / flora typical of
GENERAL OBSERVATIONS: Sequent is exposed coastline + has farma / flora typical of have exposed areas - eg, Fucus, barracles, encrusting coalline algae, Laminarian Kelps (subtidally), musual Organisms below oiled zone appear healthy.
Organisms below oiled zone appear healthy.

CULTURAL RESOURCE EVALUATION

Date 8-13-89 Location Little Smith Is. site_
Location Prefix LS Segment # L5-6/ Length ~ 900m
Survey Method:
Air(A - indicate on map) Boat(A - indicate on map
Ground (G - indicate on map)
Known cultural resources (AHRS #) Data Source
Oil conditions/beach visibility mod to heary, good visibility
Width of beach zone surveyed /O m Tree fringe surveyed O
Cultural resources observed in beach zone (AHRS code) home
Cultural resources observed in tree fringe (AHRS code)
General observations justifying survey method and segment's site probability
shore Profile Vertical rock walls in excess of 30 m, batcher legge
Fresh Water Sources none observed
Sea Exposure hich many east exposure
Access/Safety fair to poor, moderately safe
Probability of undiscovered sites in beach zone (circle one) 2 3 4 5
Monitoring during cleanup needed yes/20 Collection yes/20
Photos: Color Roll # Frames
B/W Roll # Frames
Observer (a) Phropen
THE RESIDENCE OF THE PARTY OF T
Time survey ended 0/13
Cultural resource considerations/restraints:
and the second s





Sent TR+ OR

(version 4/29/89)

SHORELINE CLEANUP PROGRAM

DATE April 29, 1989	SHORELINE SEGMENT SE-41
LOCATION: (see enclosed map) S	eal Island North
*	
ADEC NOSHORELINE	ASSESSMENT DATE: 4-20-89
Recommended Cleanup Activity(i	es):
and cobbles.	t if possible. moderate pressures to clean boulders lower pressures but vigorously on
그 마시 마시 마시 마시 그 마시 아이를 하면 다른데 다른데 다른데 그리고 있다.	Bening of rocky face if necessary to . On Jame Condinator representations
Remove pooled oil first; cobble areas last.	es and boulders second and sediment
Ecological Constraints (from s	ite survey):
Attempt to leave fucus holdfa feasible.	sts and mytilus beds as intact as
cleanup, contact Exxon archae	m site survey): tural materials are uncovered during clogist C. Mobley and take actions Guidelines for Shoreline Cleanup
State Historic Preservation Of	Date: 4/29/89
EXXON: Wir am d Stilin	Date: 4/27/89
FOSC: Sollins	Date: 4/29/89

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

SHORELINE CLEANUP PROGRAM

DATE: 4(20/39	
Shoreline Segment:	Soul Island Northeast - SE 41
Shoreline Assessment D	
Recommended Cleanup Ac	ctivity(ies):
Heavy Cil, Occled	in places. Recommend vigorous
cleaning, especially	et rounded boulders and cobble,
using waterflood	and cold/warm water under
Pressure. Be son	re To Trap and Shim oil as
removed	
Ecological/Arch. Const	raints:
If gossible, Try	To leave fuens heldgasts
and my Tilus &	hads as intert as feasible.
It heretofore un	nibentified cultural resources
RECOVERED . CURING	nibentified cultural RESOURCES CLEANUP CONTACT EXXON ARCHAUTER.
e problet, immedia	46 Kg .
EXXON:	Date:
osc:	Date:

SHORELINE OIL EVALUATION

Date: 4 / 20 /89 Observer: (DILLON
Time: 13 h 00-55 m Weather: Sun/Cloud/Rain/Snow/Fog
LOCATION
LOCATION SEAL ISLAND SITE NORTH EAST
LOCATION PREFIX SE SEGMENT NUMBER 41
LATITUDE: 6 0 d 25 m s LONGITUDE: 147 d 25 m s
LENGTH OF SHORELINE SEGMENT: 500 m
ACCESS: FOot/VEhicle/BOat/BArge/HElio/Float Plane HE/BO
SHORELINE:
SHORELINE CHARACTER:
BEach/SPit/Cove/_BE_/_Co(shgllow)
ROCK Y/N & /O VErtical/High Angle/Low Angle
SEdiment Y/N & 90 Types: B / C / P / G / S / M / R
Strand Line (Y/N Algas/Debris/Logs
OIL
LOCATION OF OIL: SU / SP / H / M / L
CONTINUOUS: YN WIDTH OF BAND: 10-30 m % of Segment 90
PATCHY: 10/20/30/40/50/60/70/80/90% coverage % of Segment
EST. OIL THICKNESS: 1-8 cm EST. OIL PENETRATION: <15 cm (variable)
POOLED OIL: W/N WEATHERED: Y/N
STRAND LINE CLEAN OILED
SUMMARY OILING: Amount High/Med/Low Coverage Extensive Moderate/Light
COMMENTS: SMALLEST SEDIMENT TYPE IS LARWEL TENT MOSTLY CLARGES. PLEBLIS. MANY LARGE OILY POOLS ALONG COMPLETE EXTENT OF SEGUE.

ECOLOGICAL EVALUATION

LOCATION Si	of Island NE	SITESE	41	OBSERVER	STORES
ATE U	20 /1989	TIME (HHMM)	00 1	TIDE HT. (m)_	8.0
OILED ZONE:	SPLASH HI	IGH MED	LOW		
SUBSTRATUM:	ROCKS BOUL	DER COBBLE	GRAVEL	SAND MUD	
LIVE BIOTA	DENSITY (#/m²	or %cover-algae	e):		
Fucus 20-5	38 Mytilus Ami	Tchy Balanus	Postely	Littorina ±	1000/m
Nucella	Pagurus	Limpets	dend	Halosaccio	n
Gelidium	Other	All found	densitie	Crirema	ily
variable					
Oil Damaged	Biota Linga	si dead or	dring o	Ther biois	alive.
Clean-up Pro	ecautions Avo.	d ramoving	fulus	holdfosti	and
intTilus	bods it o	0011,610			
OILED ZONE:	SPLASH HI	GH MED	LOW		
UBSTRATUM:	ROCKS BOUL	DER COBBLE	GRAVEL	SAND MUD	
LIVE BIOTA	DENSITY (#/m²	or %cover-algae	e):		
Fucus	Mytilus	Balanus		Littorina	
Nucella	Pagurus	Limpets_		Halosaccio	n
Gelidium	Other				
					-
Oil Damaged	Biota				
Clean-up Pre	cautions				
					- Carlon Control
	OTTERS	HARBOR	_ DALL	OTHE:	R
MAMMALS(#):	OTTERS				R

CULTURAL RESOURCE EVALUATION FOR OILED SHORELINE

te 4/20/89 Location	SEAL TSLAND	Site NORTHEAST
Location Prefix SE	Segment # 4/	Length 400 m
Survey Method: Air	(A - indicate on m	ap)
Ground	(G - indicate on m	ap)
Known cultural resources (A	HRS #) SEW-339	Data Source None
Oil conditions/beach visibi	lity Moderate to	heavy
Width of beach zone surveye	d <u>2-10</u> m Tree	fringe surveyed 10 m
Cultural resources observed	in beach zone (AHRS	code) None
Cultural resources observed	in tree fringe (AHR	s code) CMTs
General observations justify	ying survey method a	nd segment's site probability:
Shore Profile slightly	loped heach, on	all pobbles + gravel
Fresh Water Sources	ich futting her	hock 0
sea Exposure apen to	north	
obability of undiscovered		
Monitoring during cleanup ne	eeded yes no Co	llection yes/100
Photos: Color Roll # Clu	-3 Frames 17	
B/W Roll #	Frames	
Observor(s) Chilbren		
Time survey started _/305	Time s	survey ended 1420
Cultural resource considerat	tions/restraints:	
If heretofore win	dentified cul	tural material is
uncovered during	change no	tely Exon
	lobley inemed	

C:\WP\DATA\CULTURED.SHO

SE-41

COLONY (200 birds)

> ACTIVE BALD EAGLE NEST

25'

(SEWARD B-1)

Applegate @Oet Rock#

EXXON VALDEZ

SHORELINE TREATMENT APPROVAL

SHORELINE SEGMENT NUMBER	SE-41
SHORELINE SEGMENT NAME Sea	al Haulout
SUBMITTED FOR APPROVAL 5 15	/ 89
COMMENTS: Environmentaly clean	
	Signature of EXXON rep
ADEC comments on the condition recommendation.	of this shoreline segment and action
ADEC not present	DR.
	Signature of ADEC rep
Coast Guard Comments and Action.	
Completed removal of gross the oil will not migrate. Site later date to determine future to	contamination to the extent that will require reassessment at a reatment. Term we are to pupping
The majority of surface oil the site will require reassessme future treatment.	contamination has been removed.
All contamination has been equired unless re-oiled. C: ADEC	Signature of Coast Guard rep

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

	Location (see enclosed map): SEAL ISLAND WEST BLOCK
	Includes Shoreline Segments: SE-42
	Submitted: Date: 8/16/89
	ISCC Recommendation: Shank Christopless Date: 8/18/89
X	(for Exxon) ISCC Recommendation: Shank Chustopless Date: 8/18/89 FOSC Approval: D.S. Canen Date: 8-18-85
9	The cleanup procedures identified in the Shoreline Cleanup Program are recommended. Modifications to these systems can be made in the field. Exxon and other field personnel are encouraged to suggest innovations and productivity enhancements to the OSC's on-scene representative. The OSC's representative has the authority to approve on-site modifications. The Field Resource Team should be consulted if these actions do not fit within the Ecological Constraints of the Shoreline Cleanup Program. Requirements for safety and the protection of cultural material must be observed.

Distribution:

SHPO

Exxon Shoreline Coordinator Exxon Shoreline Supervisor Exxon SCAT file

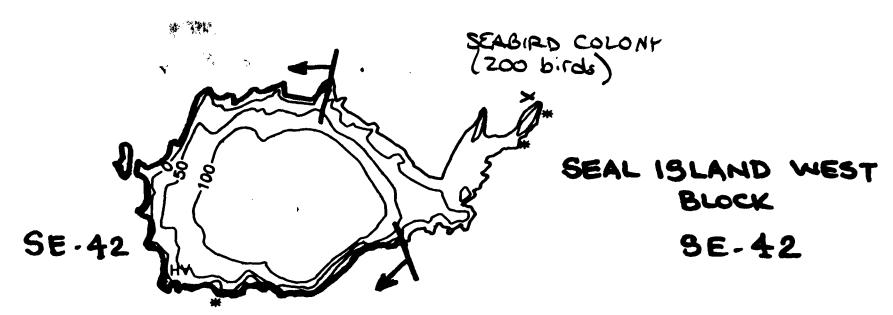
FOSC CDFU NOAA EPA USDA (FS) USFW A.DEC A.FG

A.DNR

CAC

PWSCA

USFS



No acutive beld eagle nests on thus island at this time

Seal Island

05/17/89 S CHRSO

SHORELINE CLEANUP PROGRAM

	DATE 8/16/89	SHORELINE SEGMENT SE-42
	LOCATION: (see enclosed map)	SEAL ISLAND-WESTERN COAST
	(SEAL ISLAND WEST BLOCK)	
	ADEC NOSHORELINE ASS	SESSMENT DATE: 8/13/89
2 8118185	water washing in conjuncting flooding/flushing to clean located to the second state of the second se	e moderate pressure/warm to hot on with warm to hot water ations 1, 3, and 4. Not water washing at locations few weeks after 8/13/89, this decause it is likely that
** ₽	significant self-cleaning will ue to presence of molting activity of Priorities Considerations: NO 2A and 3A	OCCUR in the interim. Harbor Seals on haulouf areas, recommon CLEANUP ACTIVITY UNTIL AFTER 20 SET TREATMENT
	Ecological Constraints (from sit Cleanup should occur at tide I near the SE boundary of this s seal haulout create special ecol	evels >+5 feet. Avoid the area egment where nesting birds and a
	during cleanup, contact Exxon's	Iltural materials are uncovered Archeological Field Director and the Operational Guidelines for
	State Historic Preservation Off:	Date: 8/16/89
	ISCC: Shaim K. Chistopherson	Date: 8/18/89
	EXXON: Stamuel D Total	Date: 8.18.89
&	FOSC: D. E. Cramay	Date: 8-18-89
• •		

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

SHORELINE OIL EVALUATION

	Date: 5/13/89/ Time: 09.00 Observer: G. MACDANALD
\	Surveyed From: Foot Boat Helio/Plane Weather: Sun Cloud Rain/Snow Foo
	LOCATION
	LOCATION western sont of Seal Isl. SEGMENT NUMBER 5E-42
	LENGTH OF SHORELINE SEGMENT: 2,025 m
	ACCESS: Foot/Vehicle Boat Barge/Helio/Float Plane
	ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane SHORELINE: Mo access to W. and — too rocky.
	Shoreline Type:SPI/BEA/COV/HLD/STRT/(SL.) Slope: LANG/HANG/VER
	Wave Exposure: High/Med/Low &
	Sediment: B10 1 / C<101 / PA1 / GAN 1 / S 1 / M 1 /R 801
	Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type
	oil in. of island.
	Degree of Oiling: Heavy Moderate Light No Oil Unobserved
	Area of Beach Impact: SU / SP / H / M / L
	Continuous: YN % of Segment < 5 Width of Band: < 1 m
	Sporadic: YN t of Segment < 20
	Est. Oil Thickness where > 1cm:cm
	Pooled Oil: * "Free" Oil: <10 * Coated: H_ * /M 30 * /L 60 *
	Fresh t Mousse O t Tar Formation: 90 t
	Drift Debris Oiled ? Yes No Supra/Upper/Mid/Lower Amount: H/M/L/
	Comments:
	Heavy and mod. oil confined to 3 small bockets for N shore of
	I bedrock exposure on W. Ware action and crosion most
	Evident on We'sW shore; - all coldes & bub: one well rounder
	Thear washing out of loc. O where some the mouse
	remains @ HHL. Tor cooking 15 tresh, still sticky;
	Self-cleaning of for coating of cobs bebs bldm ; their behock
	Self-cleaning of tour coating off cobs, bebs, bldm of their behock retaining-walls is exident.

(Map Aer	ial phot	to marki	ing segment	boundarie	s Attached.	
	VTR:	Y/N	Tape	Number(s)			
	Photogr	caphy:	Y, W	Roll Num	mber(s)		
	Sample	Numbers	Collect	:ed:	707E		

•

17

-

Segment SE-42 09.00 HRS exposed, start packy walt her mouse e HTTZ, coat thickness & Satin a undersides blohs. (2) jagged steed autered w/ 5/2 m discout tow coar e uper HTZ: % massive blows, over bedrick; mad L old mouse i tow coat up HITZ- St tree mouse tropped in gulpabs bedrock therices and shallow detressions c. 20 cm deet; 15 m wide x 60 m long; heavy some spots spots e supra z. 3×10m collect born e's w tree mouse blooding down to exposed bachock.

massive bouter; fresh toir deal up. HITZ > she, toir splots and share c subra Z;

10 m wide x dow long x > 50 cms deap

@ HITZ; penetration < 1 cob @ 3 when > 20 cms @ SP, > 50 cm's a uplant with HITZ;

Some 321) cleaning exident on cass fets
- tor stained case. @ mid HTTZ one
prob. derived from up beach, distance
covered so for could be as much as
10 m for small cas (mlocan, dia)

(5) tour coast on bloom bedock @ up. HTTZ in channels in vertically bedood seas; ~ 3 m widt max

(a) step cab beach on badrock;

mature mousse for coet of m wide

×100 m long × < 100m; & up. HITZ;

self-cleaning widget; well rounded

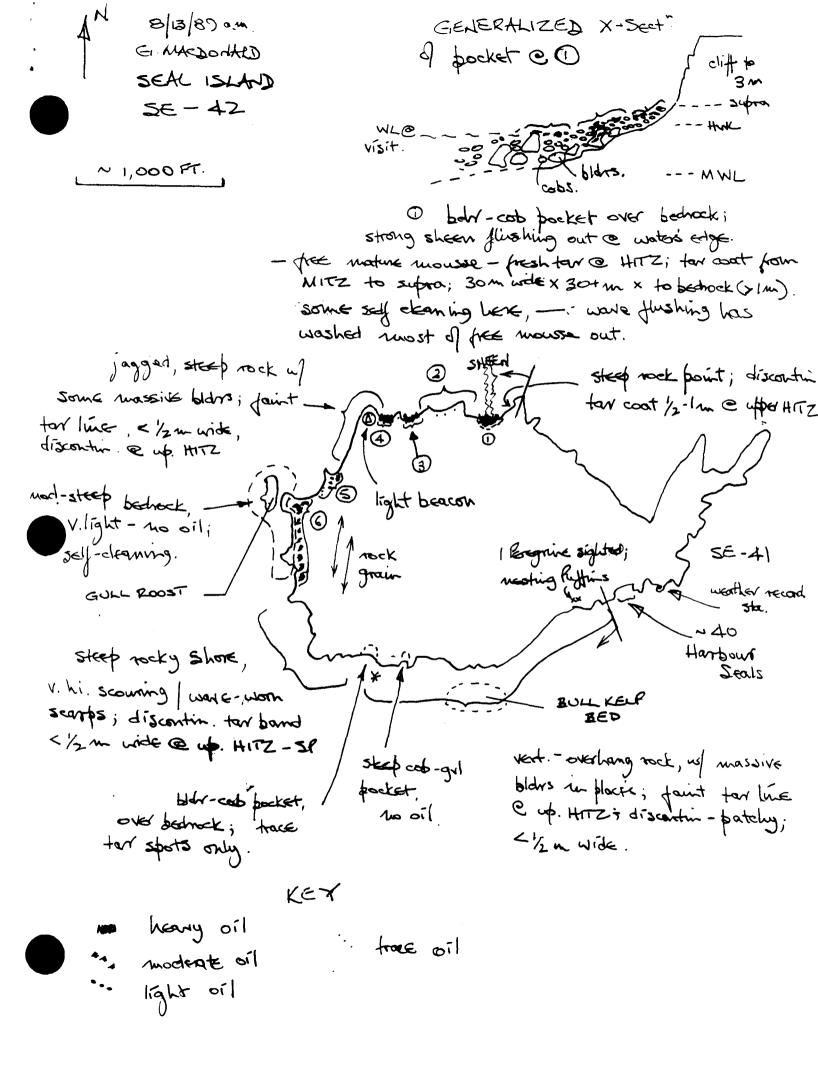
cabs and soomed badrock

cabs as venery on badrock & HITZ

1, w/ gyls & pubs, scowing bady clean.

4. 1

3/60/2 -	have too	L way -		
trace - v	1. light < 1/2 a	- wide t	ar-drip	
line e	4. HITZ		t	
	(Section
H. seals	~ 40 .			
END d	SEGMEN	r 10.	40 HKS	10.13
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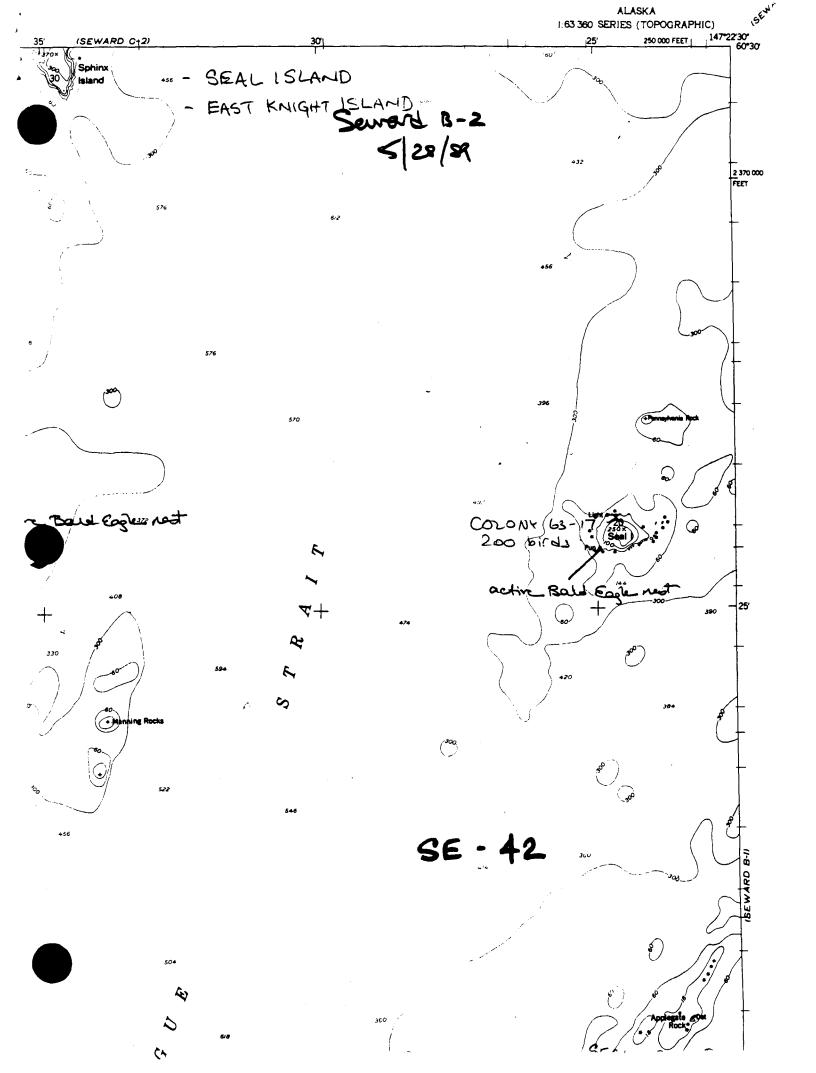


ECOLOGICAL EVALUATION

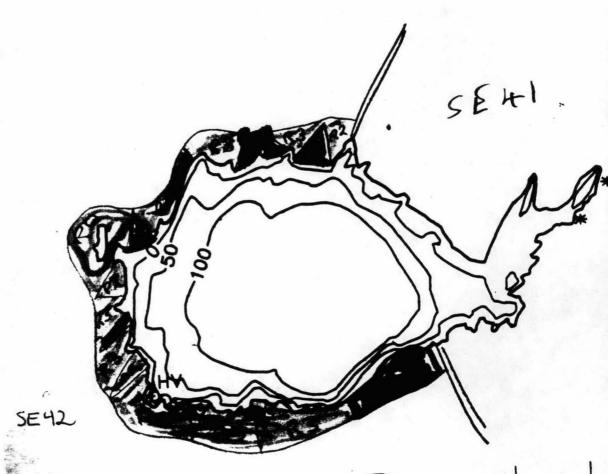
LOCATION: Prince William Sound SITE: W. Seal Irland OBSERVER: 5. Dearn
LOCATION PREFIX: SEG. NO.: SE-42 LENGTH: 2,028 (M)
DATE: 08 /13 / 89 TIME (HHMM): 0900-1040 TIDE HT.: 5.0-8.0 St
OILED ZONE: Splash High Medium Low
SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud
LIVE BIOTA
Pucus (algae): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N Dense on rocky points rock outcropping + larger boulders. Plants in upper Zone in oil areas are coated + appear dead.
Mytilus (Mussels): Patchy YN Contin. Y/N Dense YN Sparse Y/N None Y/N
Present in small (0.25 m²) - large (2 m²) patches. Many individuals in oiled areas are coated. Most appear alive, however dead gaping univ. are present.
Balanus (Barnacles): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
Continuous bands on sides of rocks + large boulders. Upper 0.5 m of banacle, heavily oiled. ~15% - 20% dead individuals - mortality appears greater in layer individuals
Patchy Y/N Contin. Y/N Dense Y N Sparse Y N None Y/N
Scattered throughout segment. Some dense aggregations associated w/ don't kelp p (so it is assumed there are feeding approgrations).
Limpets: Patchy Y N Contin. Y/N Dense Y/N Sparse YN None Y/N
Scattered throughout segment - found under colobles + under Ficus blades
OTHER OBSERVATIONS: begans bed in low intertidal / shallow subtidal areas. Dense but kelp beds offshore. Other (kelps (Plenophysus, Lannaria Atlana) also present subtidally. Many intertidal algae (lush growth). Terrestrial vegetation beyond the suprazione is also diverse.
CLEANUP PRECAUTIONS: Avoid S.E. end of island—this area contains nesting preffins harvor seal hand (educant segment), bull very beds, + a potential peregrande falcon hest Clean only at higher tides than +5.0 ft to avoid damage to healthy intertida region. Minimize disturbances to nearshore gull roost (SEE MAP).
MAMMALS: Otters Harbor Seals 2 Sea Lions Whales Wholes
BIRDS: Pigeon quillemots -> 12 Oyster Catchers - 2 Sandpipers - 5, Glaucous - wiged guld and Kithatakes rooking (see map for location), Commonants, heating pufficion 1 peregnine sigli GENERAL OBSERVATIONS: leagle figing overhead. (topked horself)
A species-rich area with high abundance of organisms. Organisms below oiled area appear healthy

CULTURAL RESOURCE EVALUATION

Date 9/3-89 Location SEAL 1918ND site Location Prefix SE Segment \$ SE-42 Length 2025 Survey Method: Air (A - indicate on map) Boat (A - indicate Ground (G - indicate on map) Known cultural resources (AHRS \$) None Data Source Oil conditions/beach visibility 1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/			CULTURAL	RESOURCE	EVALUATIO	N_	
Survey Method: Air	Date 8	13-89	Location_	SEAL !	ISLAND	_Site	
Air (A - indicate on map) Boat (A - indicate Ground (G - indicate on map) Known cultural resources (AHRS #) Data Source	Location	Prefix SE	Se	gment # 5	E-42	Length_	2025
Known cultural resources (AHRS #) Data Source	Survey M	ethod:		•			
Known cultural resources (AHRS #)	Air.	(A ·	- indicate o	n map) Boa	t	(A -	indicate
Oil conditions/beach visibility // to blowy Width of beach zone surveyed S-/o m Tree fringe surveyed /o 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 prob Shore Profile Variable, Skeep rocky to profest beach to Variable Fresh Water Sources small standing points and steps Sea Exposure high energy N W S Access/Safety Variable, fair to good; Safety fair. Probability of undiscovered sites in beach zone (circle one) D2 3 o Monitoring during cleanup needed yes/no Collection yes/no Photos: Color Roll # Frames Frames	Ground <u>~</u>	(G	- indicate o	on map)			
Width of beach zone surveyed S-10 m Tree fringe surveyed 10 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 prob Shore Profile Variable, Skep rocky to proket beach to Variable Fresh Water Sources Inall Standing ponds and Staps Sea Exposure this heavy N, W, S. Access/Safety Variable, fair to good; Safety far. Probability of undiscovered sites in beach zone (circle one) D2 3 Monitoring during cleanup needed yes no Collection yes 100 Photos: Color Roll # Frames Frames	Known cu	ltural resou	rces (AHRS) none		Data S	ource
Cultural resources observed in beach zone (AHRS code) More Cultural resources observed in tree fringe (AHRS code) None General observations justifying survey method and segment's site prob Shore Profile Variable, Skep rocky to proket beach to variable Fresh Water Sources small standing ponds and steps Sea Exposure high energy N, W, S. Access/Safety Variable, fair to good; Safety fair. Probability of undiscovered sites in beach zone (circle one) D2 3 and Monitoring during cleanup needed yes no Collection yes no Photos: Color Roll # Frames B/W Roll # Frames Frames	Oil cond	itions/beach	visibility_	light 1	to hear	y	
Cultural resources observed in tree fringe (AHRS code) home General observations justifying survey method and segment's site prob Shore Profile Varlable, Skep rocky to proket beach to Varlage Fresh Water Sources small standing ponds and staps Sea Exposure high energy, N, W, S. Access/Safety Variable, fair to good; Safety fav. Probability of undiscovered sites in beach zone (circle one) D2 3 Monitoring during cleanup needed yes/no Collection yes/no Photos: Color Roll # Frames B/W Roll # Frames	Width of	beach zone	surveyed	5-10	Tree f	ringe sur	veyed_/c
General observations justifying survey method and segment's site prob Shore Profile Variable, Skep rocky to proket beach to Variable Fresh Water Sources small standing ponds and steps Sea Exposure high energy, N, W, S. Access/Safety Variable, fair to good; Safety far. Probability of undiscovered sites in beach zone (circle one) 102 3 Monitoring during cleanup needed yes/no Collection yes/no Photos: Color Roll # Frames	Cultural	resources o	bserved in b	each zone	(AHRS co	ie) _ non	•
Shore Profile Varlable, Skep rocky to proket beach to Varlage Fresh Water Sources small standing ponds and Scaps Sea Exposure high energy, N, W, S. Access/Safety Variable, fair to good; Safety fair. Probability of undiscovered sites in beach zone (circle one) D2 3 Monitoring during cleanup needed yes/no Collection yes/no Photos: Color Roll # Frames B/W Roll # Frames Frames	Cultural	resources o	bserved in t	ree fringe	(AHRS C	ode) hon	•
Shore Profile Varlable, Skep rocky to proket beach to Varlage Fresh Water Sources small standing ponds and Scaps Sea Exposure high energy, N, W, S. Access/Safety Variable, fair to good; Safety fair. Probability of undiscovered sites in beach zone (circle one) D2 3 Monitoring during cleanup needed yes/no Collection yes/no Photos: Color Roll # Frames B/W Roll # Frames Frames	General	observations	justifying s	urvey meth	od and se	gment's s	ite prob
Fresh Water Sources small standing ponds and steps Sea Exposure high energy N, W, S. Access/Safety Variable, fair to good; 5x fety fair. Probability of undiscovered sites in beach zone (circle one) D2 3 Monitoring during cleanup needed yes/no Collection yes/no Photos: Color Roll # Frames Frames							
Sea Exposure high energy N. W. S. Access/Safety Variable, fair to good; 5x fely fair. Probability of undiscovered sites in beach zone (circle one) D2 3 and Monitoring during cleanup needed yes/no Collection yes/no Photos: Color Roll # Frames Frames Frames			•				
Probability of undiscovered sites in beach zone (circle one)	Sea Expo	sure high	energy.	N.W.	5.		P0 3
Probability of undiscovered sites in beach zone (circle one) 2 3 6 Monitoring during cleanup needed yes no Collection yes no Photos: Color Roll # Frames B/W Roll # Frames	Access/S	afety Varia	the fair	- to an	od: 52	fely to	er.
Monitoring during cleanup needed yes/no Collection yes/no Photos: Color Roll # Frames B/W Roll # Frames							
Photos: Color Roll # Frames							
B/W Roll # Frames	.,						
PC P	Photos:						
		DC.	0).	r	rames		
A CONTRACTOR OF THE PROPERTY O	Time sur	yey seried	0900	ri F	me survey	ended_/	040
Time survey sarted 0900 Time survey ended 7040	The state of the s	The same of the sa	Charles and a second of the se				4.00
Time survey served < 0900 Time survey ended /040	1 . x	A 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 / S. S. A	The string of the last		The Liver of	四次 点面
Time survey safted (D300 Time survey ended /040	1	aline with	Tambard	and the state of t	and and the		



1 4		1 min and	7733	
OILY	H	M	L	NONE
Boulser	131	32	33	
CBIPB	C1	c2	c3	
PBICB	PI	65	P3	-
ROCK	RI	R2	R3	20



- all oil in mid of upper intertidal

- Fucus/barnacles in lower intertidal appear healthy. Most growth off the rock a boulder zones

Seal

Sent to TREOR

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Location (see enclosed map): Appl1	egate Rock Block	
Includes Shoreline Segments: AP-38,	AP-39, AP-40	
•		
Submitted: Office Exxon)	Date:_	4-21-89
FOSC Approval:	Date:_	
Distribution: Exxon Shoreline Coordinator Exxon Shoreline Supervisor Exxon SCAT file		
FOSC		
NOAA EPA USDA (FS) USFW A.DEC A.FG A.DNR		,
PWSCA		

SHORELINE CLEANUP PROGRAM

DATE:April 21, 1989	SHORELINE SEGMENT AP-38
LOCATION: (see enclos	ed map) North Applegate Rock
ADEC No. 23	
SHORELINE ASSESSMENT	DATE: 4-20-89
Priorities Considera Pinneped h	tions: aulout area.
	ts (from site survey): ving fucus holdfast and mytilus beds.
If heret	aints (from site survey): ofore undiscovered cultural material is contact Exxon archaeologist C. Mobley y.
Moder Hom State Historic Prese	rvation Officer *
EXXON:	Date:
FOSC:	Date:

* Signature required to satisfy stipulations in Alaska DNR Tideland Permits.

Best profeshoral ordgenest could be used by onshore team

SHORELINE OIL EVALUATION [revised 17 Apr 89]

Date: 4 20 189 Observer: C. DILLON
Time: 09 h 00-30 m Weather: Sun Cloud Rain/Snow/Fog
LOCATION
LOCATION APPLEGATE ISLAND SITE NORTH
LOCATION PREFIX AP SEGMENT NUMBER 38
LATITUDE: 6 0 d 21 m s LONGITUDE: 147 d 23 m s
LENGTH OF SHORELINE SEGMENT: 350 x 75 m
ACCESS: FOot/VEhicle/BOat/BArge/Helio/Float Plane HE/Bo (1874 1 de 1884)
SHORELINE:
SHORELINE CHARACTER:
BEach/SPit/Cove/
Wave Exposure: High/Med/Low
ROCK YN \$ 20 Vertical/High Angle/Low Angle Lowlying 32'
ROCK YN \$ 20 Vertical/High Angle/Low Angle Lawlying 30. SEdiment YN \$ Types: B/C/P/G/S/M/R
Strand Line Y/N Algae/Debris/Logs
oil moderately oiled
Moderately oiled LOCATION OF OIL: SU / SP / H / M / Elightly oiled
CONTINUOUS: W/N WIDTH OF BAND: 40-50 m % of Segment 30
PATCHY: 10/20/30/40/50/60/70/80/90% coverage % of Segment
EST. OIL THICKNESS: <pre>_ cm</pre>
POOLED OIL: Y/N "FREE" OIL: Y/N WEATHERED: Y/N
STRAND LINE CLEAN/OILED N/A
SUMMARY OILING: Amount High/Med/Low Coverage Extensive/Moderate/Light
COMMENTS: UIL IS THIN AND BEADED ON ROLYS AND ALGAE.
LINERS WEST SIDE OF ISLAND TO CENTERLINE RIDGE. IND
DETERUS, NO SEDIMENT SMALLER THAN LARGE PEBBLES. SHALLOW ROOLS OF WATER WITH SUME LIGHT SHEENING.
C:\WP\DATA\SHOREVAL.1

SHORELINE CLEANUP PROGRAM

DATE: Apri	1 21, 1989	SHORELINE SEGMENT AP-39
LOCATION:	(see enclosed map) <u>Center</u>	Applegate Rock
ADEC No.	23	
SHORELINE	ASSESSMENT DATE: 4	-20-89
Recommende	ed Cleanup Activity(ies): Washing/flooding High/low pressure washin	
	Warm water at moderate/h	igh pressure
Priorities	Considerations: Pinneped haulout area	
Ecologica	l Constraints (from site Avoid removing fucus hol	
Archeolog		te survey): vered cultural material is kon archaeologist C. Mobley
Than	la ZHAME_ coric Preservation Office	Date: 4/21/69
FYYON.	* ×	Date:
FOSC:		Date:

^{*} Signature required to satisfy stipulations in Alaska DNR Tideland Permits.

SHORELINE OIL EVALUATION [revised 17 Apr 89]

Date: 4 20 189 Observer: (DILLO)
Time: 10 h 00-15 m Weather: Sun/Cloud/Rain/Snow/Fog
LOCATION
LOCATION APPLEGATE SLAND SITE CENTER
LOCATION PREFIX AP SEGMENT NUMBER 39
LATITUDE: 6 0 d 2 m s LONGITUDE: 147 d 25 m s
LENGTH OF SHORELINE SEGMENT: 120 x 30 m
ACCESS: FOot/VEhicle/BOat/BArge/Helio/Float Plane HE/BO (Stations
SHORELINE:
SHORELINE CHARACTER:
BEach/SPit/Cove/
Wave Exposure: High/Med/Low
ROCK Y/N 1 10 VErtical High Angle Low Angle
SEdiment Y/N % Types: B/C/P/G/S/M/R
Strand Line Y/N Algae/Debris/Logs
OIL
LOCATION OF OIL: SU / SP / H/M/ (L) only on South hat of Island.
CONTINUOUS: Y/N WIDTH OF BAND: m % of Segment 5
PATCHY: 10/20/30/40/50/60/70/80/90% coverage % of Segment 50
EST. OIL THICKNESS: < Cm EST. OIL PENETRATION: < cm
POOLED OIL: YN "FREE" OIL: YN WEATHERED: YN
STRAND LINE CLEAN/OILED N/A on S. of sigment
STRAND LINE CLEAN/OILED N/A on S. of sigment summary oiling: Amount High Med Low - on N. of segment Coverage Extensive/Moderate Light
COMMENTS: OIL ON COBBLED HAULOUT BEACH (ON N. SIDE OF SEGMENT)
HAD SPATTERINGS ON ROBBLES AND ALCAR. BEDRUCK & WBRUSLOW
S. SIDE OF SEGMENT) ARE COMPLETELY BUT MODERATELY OILED.

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SHORELINE CLEANUP PROGRAM

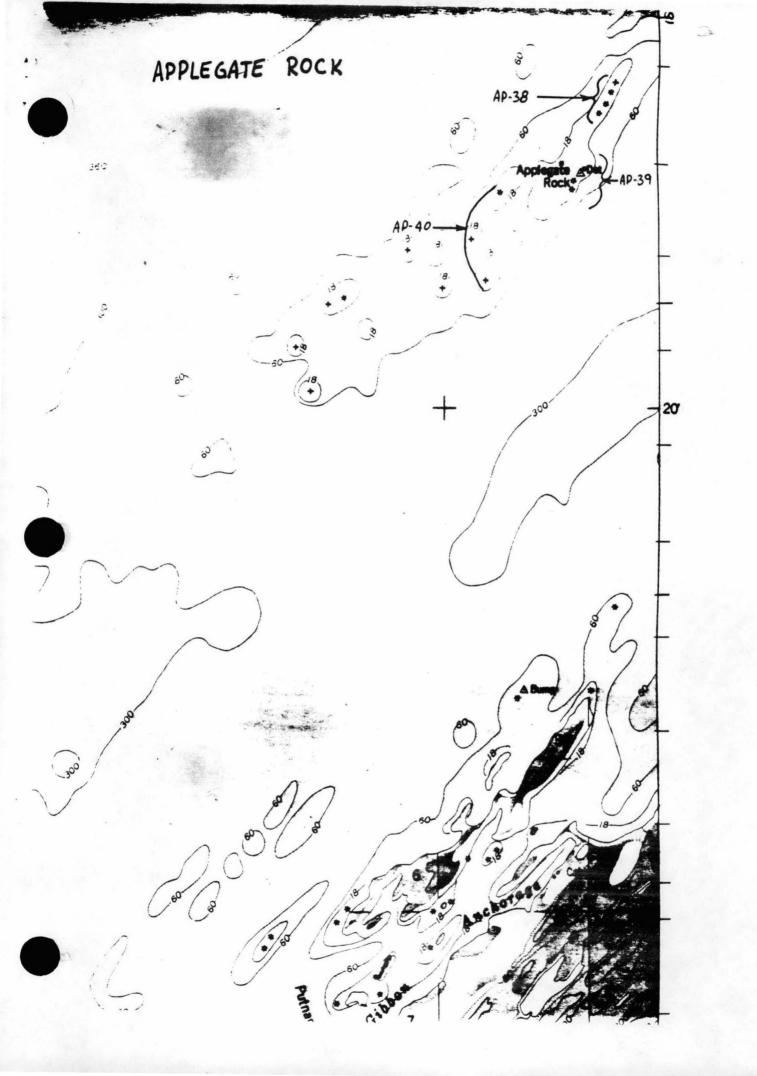
DATE: April 21, 1989 SH	ORELINE SEGMENT AP-40
LOCATION: (see enclosed map) South App ADEC No. 23	legate Rock
11525 1161 55	
SHORELINE ASSESSMENT DATE: 4-20-89	
Recommended Cleanup Activity(ies): Washing/flooding High/low pressure washing Warm water at moderate/high	pressure
Priorities Considerations: Pinneped haulout area	
Ecological Constraints (from site sur Avoid removing fucus holdfa	
Archeological Constraints (from site of the site of th	ed cultural material is
State Historic Preservation Officer *	Date: 4/21/89
EXXON:	Date:
FOSC:	Date:

^{*} Signature required to satisfy stipulations in Alaska DNR Tideland Permits.

SHORELINE OIL EVALUATION

	Date: 4 20 /89	Observer: (. DILLON
	Time: 10 h 15 m	Weather: Sun/Cloud/Rain/Snow/Fog
	LOCATION	
	LOCATION APPLECATE ISLAND	SITE South
	LOGATION PREFIX AP	segment number 40
	LATITUDE: 6 0 d 2/ m s	LONGITUDE: 147 d 26 m s
	LENGTH OF SHORELINE SEGMENT: (0)	200 x 70m width
	ACCESS: FOot/VEhicle/BOat/BArge/H	Elio/Float Plane HE/ BO
	SHORELINE:	
	SHORELINE CHARACTER:	
	BEach/SPit/Cove/	
	Wave Exposure: High Med/Low	ulying on N and NE SIDES
	ROCK YN 1 10 VErtica	D/High Angle/Low Angle
	SEdiment W/N & 90 Types:	B/C/P/G/S/M/R
	Strand Line Y/N Algae/Deb	ris/Logs
	OIL	
	LOCATION OF OIL: SU / SP / H / (M	
	CONTINUOUS: YN WIDTH OF BAND:	10-20 m % of Segment 40-50
NA	PATCHY: 10/20/30/40/50/60/70/80/9	0% coverage % of Segment
	EST. OIL THICKNESS: CR EST	. OIL PENETRATION:cm
	POOLED OIL: Y/N "FREE" OIL:	Y/N WEATHERED: Y/N
	STRAND LINE CLEAN/OILED NA	
	SUMMARY OILING: Amount High Me Coverage Extensi	d/Low ve/Moderate/Light
	COMMENTS: REDILING LINES EVIDENT CONTINUOUS BAND OF MUNERATE O only on West side of S. Applegate	ALUNG [NNERMOST MIDDLE 1/3 ITZ IL N 10-20 n WIDE AND 150 on Find Island. Center and East side citim.
	→	

C:\WP\DATA\SHOREVAL.1



EXXON VALDEZ

SHORELINE TREATMENT APPROVAL

SHORELINE SEGMENT NUMBER AP-38	
SHORELINE SEGMENT NAME Applegate Rocks Haulout	
SUBMITTED FOR APPROVAL 5 / 15 / 89	
COMMENTS: Environmentaly clean	
Signature of EXXON rep	_
Signature of EXXON rep	
ADEC comments on the condition of this shoreline segment and action recommendation.	r
ADEC not present	
Signature of ADEC rep	_
Coast Guard Comments and Action.	
Completed removal of gross contamination to the extent that the oil will not migrate. Site will require reassessment at a later date to determine future treatment.	
The majority of surface oil contamination has been removed. The site will require reassessment at a later date to determine future treatment.	
All contamination has been removed. No further treatment required unless re-oiled. Signature of Coast Guard rep	
VC. ADEC	

EXXON VALDES

SHORELINE TREATMENT APPROVAL

SHORELINE SEGMENT NUMBER	AP-40
SHORELINE SEGMENT NAME	Applegate Rocks Haulout
SUBMITTED FOR APPROVAL _5	<u>/ 10</u> / 89
COMMENTS: Environmentaly c	lean
	Signature of EXMON rep
ADEC comments on the condi recommendation.	tion of this shoreline segment and action
ADEC not present	aR.
	Signature of ADEC rep
Coast Guard Comments and Ad	etion.
Completed removal of on the oil will not migrate. later date to determine fut	gross contamination to the extent that Site will require reassessment at a cure treatment.
	e oil contamination has been removed. essment at a later date to determine
equired unless re-oiled.	been removed. No further treatment Signature of Coast Guard rep
C: ADEC	