

EVOS GC 1552 .P75 S42 1989 v.8

[Shoreline evaluations, 1989].

Volume 8

Lone Island

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

OUSPINIPABLIC Andormation Conter

(varaica 5/19/50)

PWSCA USFS SHPO

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Location (see enclosed map): LONE ISLAND EAST BLOCK
Includes Shoreline Segments: LN-1, LN-2, LN-3, LN-4, LN-5,
LN-6, LN-7
Submitted: BArhman Date: 5/22/89 Fosc Approval: Rayrd n Date: 77/89
FOSC Approval: Warra Mayod n Date: 27 79
ISCC Recommendation: Total - 5/26/89
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: other beaches showed great deal natural weath
EXXON Shoretime Cooldinator
Exxon Shoreline Supervisor Exxon SCAT file
FOSC CDFU NOAA
EPA USDA (FS)
USFW
A.DEC
A.FG
A. DNR

SHORELINE CLEANUP PROGRAM

DAT	re5/2	22/89	SHORE	LINE SEGMENT	IN-1
LCC	CATION: ((see enclosed	map) toke is	LAND	
			LINE ASSESSMENT	DATE: 5/20	0/89
Rec	commended	Cleanup Acti	vity(ies):		
1) 2)	oiled f	ugus algae of //flooding wit	sse accumulation f rocks. h warm/hot (up t		
Pri	orities	Consideration	s:		
		: heavy oiling: resources			
Eco	logical	Constraints (from site survey)) \$	
•	oiling : Cut-off holdfas	lower beach. fugus on hea ts intact.	substrate only a vily oiled rock:	faces. Leave	•
pre und	heologica <u>access</u> iscovered tact Exx scribed	al Constraints to uplands i cultural ma on's Archeolo	s (from site surv <u>by cleanup c</u> aterials are un- ogical Field Dir tional Guideline	rey): <u>rews.</u> If covered during rector and tak	cleanup, ce actions
() Stat	Charles te Histor		on Officer >	Date: <u>May</u>	22, 1989
EXX	он: <u>д</u>	Gal .		Date:	26 /89
FOS	: Carril	1- Janaly	<i>C</i>	Date: 5/3	7/89

Date: 5/26/89 Time: 07:30 Observer: Ric	K GILLIE
Surveyed From: Foot Boat/Helio/Plane Weather: Sun/Cloud	ud/Rain/Snow/Fog
LOCATION	
LOCATION LONE ISLAND SEGMENT NUMBER L	N-1
LENGTH OF SHORELINE SEGMENT:	
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: B45% / C40% / P10% / G_% / S_% / M_% /R_	5 g ALGAE
Drift Debris on Beach: Yes No Supra Upper Mid/Lower	
OIL	
Degree of Oiling: Heavy Moderate Light/No Oil/Unobserved	1
Area of Beach Impact: SU / SP / H / M / L	
Continuous: YN % of Segment 80 Width of Band:	10-15 m
Sporadic: Y/N % of Segment	
Est. Oil Thickness where > $1 \text{cm} : 2-4 \text{ cm}$ Est. Oil Penetration	
Pooled Oil: 5 % "Free" Oil: 5 % Coated: H 90% /M %	k /L%
Fresh 90 % Mousse 5 % Tar Formation	
Drift Debris Oiled ? (Yes) No (Supra Upper Mid/Lower Amount:	: H/M/L/
Comments:	
FOUR BEACHES (EACH 2001-400 M LONG) BOUNDED	BY ROCK HLD
THICK (ID CM) MOUSSE. AT SOUTHEND OF BEACH 1.	
- ACCESS TO BEACHES 3 AND 4 HINDERED BY SWB-	TIBM ROCKS
- SEE ATTACHED MAP OF SEGMENT LN-1 AND BE	
DEJCIUPTIONS	

LOCATION: Lone Island site: North OBSERVER: Greg Change
LOCATION PREFIX: LN \$ SEG. NO.: LENGTH: 1200 (M)
DATE: May / 20/89 TIME (HHMM): 7:30-9:30 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. YN Dense YyN Sparse Y/N None Y/N
In large loulders and low portions of bedrock outcrape
Mytilus (Mussels): Patchy YN Contin. YN Dense YN Sparse Y/N None Y/N
in thick patches on bedrock outcrops
Balanus (Barnacles): Patchy YN Contin. YN Dense Y/N Sparse Y/N None Y/N
in bands on bedrock outerpy scattered on boulders
Littorina
Patchy (Y)N Contin. Y/N Dense Y/N Sparse (I)N None Y/N
some scattered in boulders
Limpets: Patchy (Y)N Contin. Y(N) Dense Y/N Sparse (Y)N None Y/N
scattered in letwern boulders and on some rocks faces
other OBSERVATIONS: Several Stan fish; Shore birds were feeding in orled help at high tide - Donibly due to insects
in olla help at high tide-possibly are to interes
- CLEANUP PRECAUTIONS: Try towash at High Tide. Keep oil from spreade
down to healthy intuitibal community. Cut off facus which is heavy oiled gather oiled dofft debri from high fide line MAMMALS: Otters D Harbor Seals Sea Lions Whales Debre
gather oiled dofft debri from high dide line
MAMMALS: Otters D Harbor Seals D Sea Lions Whales D
BIRDS: Probable Eagle Nesting Site at North Point, 4 Cumpens, sparrows
GENERAL OBSERVATIONS: Intertidal organisms healthy in the inter low
intertidal but limpets detach in oiled rocks, Rocks offshore
intertidal but limpets detach in oiled rocks, Rocks offshore may make barge access very tricky in some locations.

SEGMENT LN-1 (NORTHEAST END, LONE ISLAND)

active 41 - HEAVY OILING, MD-TDE TO SHILL.

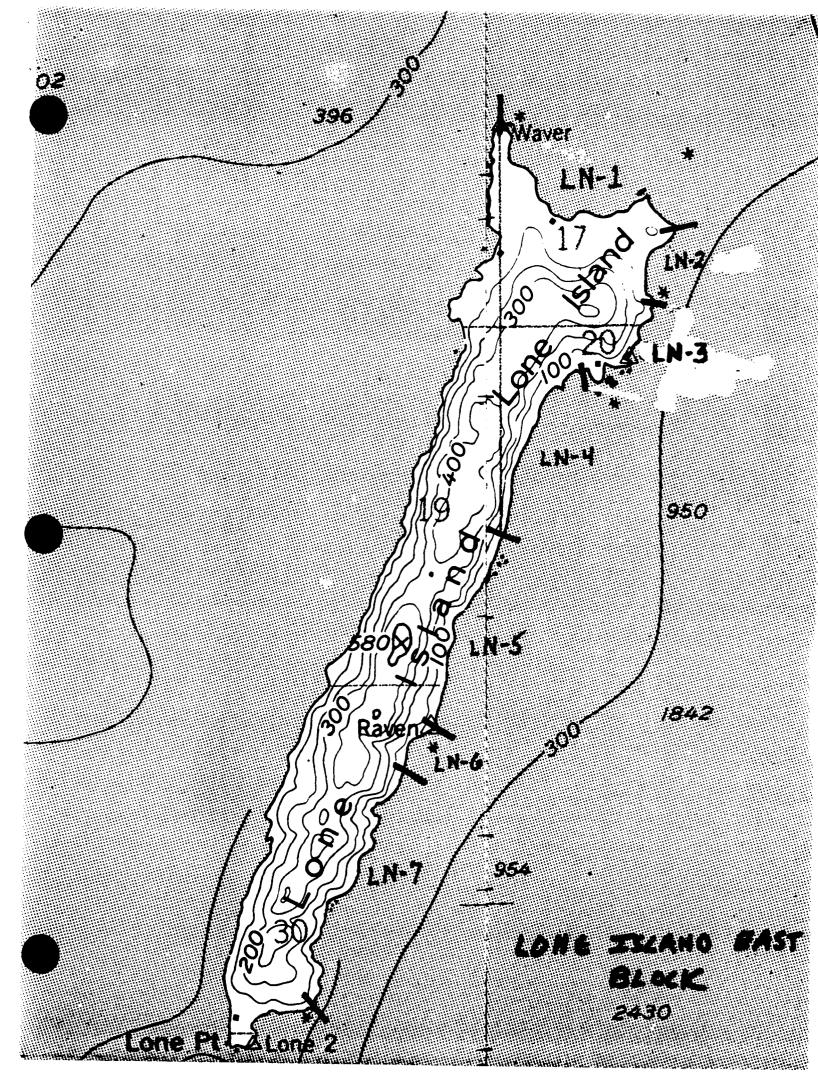
(100M) - 1 M WIDE ALGAE DEBRIC LINE (OILED)

THEAVY MOUSSE OILING AT SOWHEAST OILING PACH 2 - MODERATE OILING, MID-TIDE TO S.H.W.L. (M oci

EARLY 3 - LIGHT TO MODERATE OILING, 100 / BOULDERS 300 M) - APPROPRING BY BARGE HINDELZED BY SUB-TION BOMDERS

BOALA - MODER ATE TO HEAVY OILING (200M) - ACCESS HINDEREN BY ROCK! (MU TIDES)

Date 5-20-89 Location LONE TSLAND Site Math & EAST SIDE					
Location Prefix LN Segment # Length 1200 m.					
Survey Method:					
Air (A - indicate on map) Boat X (A - indicate on map)					
Ground X (G - indicate on map)					
Known cultural resources (AHRS #) Data Source					
Oil conditions/beach visibility moderate to heavy					
Width of beach zone surveyed 20-40 m Tree fringe surveyed 0 m					
Cultural resources observed in beach zone (AHRS code) NoNE					
Cultural resources observed in tree fringe (AHRS code) HTI (See Notes)					
General observations justifying survey method and segment's site probability:					
Shore Profile medium to Large cobbles w/ moderate slope to steep slopes					
Fresh Water Sources NO Statums - Scops					
Sea Exposure Open to North					
Access/Safety FAIR					
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 # <u>C.W. 8</u> Frames 11, 12, 13					
Observer(s) ANDREFSKY, C. WILSON					
Time survey started 8:20 Time survey ended 9:30					
Cultural resource considerations/restraints:					
IF heretofore unidentified cultural material is discovered during					
cleanup notify Exxon anchaeologist C. Mobley immediately					



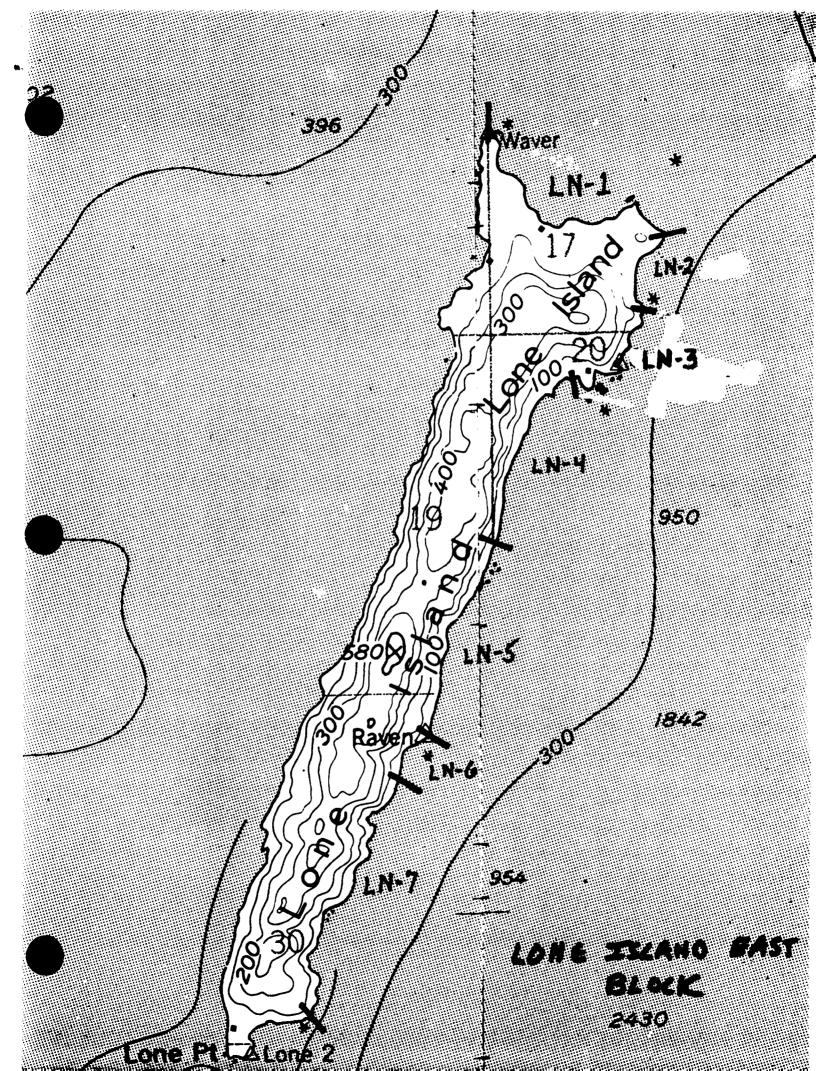
SHORELINE CLEANUP PROGRAM

DATI	3/2	2/84		SHOKELINE SI	EGMENT LN-2	
LOCA	ATION:	(see	enclosed map)	Lone Isl	and	_
ADEC	NO		SHORELINE ASS	SESSMENT DATE:	5/20/89	<u>-</u>
Reco	mmende	ed Cle	eanup Activity(ies	5):		
1)	Hand o	cleanu	p of oiled algae	debris by pitch	fork and rakes.	
2)	Washir tides			hot (up to 140	F) water at higher	ť
Pric	rities	Coñá	iderations:			
	Class	3B.				
Ecol	.cgical	Cone	traints (from sit	e survey):		
	Wash o		e/boulder substrate	te only at high	tide to avoid	•
No here clea acti	access tofore nup, c	to undi contac rescri	t Exxon's Archeo	feature by cl l materials are plogical Field ational Guideli	eanup crews. If e uncovered during Director and take nes for Shoreline	J
() Stat	erke e Hist	? oric	Preservation Office	Da	te: <u>May 22, 1984</u>	•
EXXO	n:_ <i></i>	Seg		Da	te: <u>May 22, 1989</u> te: <u>May 26 /87</u>	•
FOSC	· Na	will.	Ramolli	Da	te: 5/27/94	

Date: 5/30/89, Time: 10:30 Observer: RICK GILLIE
Surveyed From: Boat Helio/Plane Weather Sun/Cloud/Rain/Snow/Foo
LOCATION
LOCATION LONG ISLAND SEGMENT NUMBER LN-2
LENGTH OF SHORELINE SEGMENT: 400
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: B40% / C50% / P_% / G_% / S_% / M_% /R 10%
Drift Debris on Beach: Yes Wy Supra/Upper/Mid/Lower Type Logs
OIL
Degree of Oiling: Heavy Moderate Light No Oil/Unobserved
Area of Beach Impact: SU / SP H M / L
Continuous: Y)N % of Segment 30 Width of Band:m
Sporadic: Y/N % of Segment
Est. Oil Thickness where > 1cm:cm
Pooled Oil: % "Free" Oil: % Coated: H % /M_50 % /L_50 %
Fresh 100 % Mousse % Tar Formation:%
Drift Debris Oiled ? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L/
Comments:
-100 M Bourer/COBBLE BEACH
- SUB-TION BEDROCK REEFS
- POOR ACCESS

	LOCATION: Lone Island SITE: North East to OBSERVER: Greg Chaney
)	LOCATION PREFIX: LN SEG. NO.: 2 LENGTH: 400 (M)
,	DATE: 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	OILED ZONE: Splash High Medium Low
	SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud
	LIVE BIOTA
	Fucus (algae): Patchy WN Contin. YN Dense Y/N Sparse Y/N None Y/N
	On large rocky headlands very thick space or nothing on cobble
	Mytilus (Mussels): Patchy Y N Contin. Y N Dense Y N Sparse Y/N None Y/N
	in thick patches on bedrock outcrops. none on smaller rocks
	Balanus (Barnacles): Patchy ()/N Contin. Y/N Dense ()/N Sparse Y/N None Y/N
	well defined bands on rocky headlands. Mortality observed in oiled
	Littorina Patchy (Y/N Contin. Y/N Dense Y/N Sparse (Y/N None Y/N A facus ()
1	distributed above fittle line between large boulders
,	Limpets: Patchy (Y) N Contin. Y(N) Dense Y/N Sparse (Y)N None Y/N
	scattered between rock faces and on some rock faces. Mortality
	Other Observations: several starfiel in low intestidal,
	hermit crabs and small fish, Rocky Headlands have oiled fucus
_	,
	healther intertibal community. Hand cut off heavily piled fucus Gother miled
	drift derpris from high tide line
	CLEANUP PRECAUTIONS: Try to wash at high tide. Keep oil from spreading to nealthy intertidal community. Hand cut off heavy oiled fucus. Gather oiled diff derbris from high tide line River 3 RAMMALS: Otters 3 Harbor Seals 2 Sea Lions 2 Whales 2
	BIRDS: 2 Eagles, Shore birds
	GENERAL OBSERVATIONS: dead limsets observed in oiled intertidal
	man. Some lethargic crabs in oiled water Helicopter traffict
	gore. Some lethargic crabs in oiled weter, Helicopter traffict should be limited on restricted due to eagles

Date 5-20-89 Location LONE ISLAND Site EAST SIDE (upper)					
Location Prefix LN Segment # 2 Length 400 m					
Survey Method:					
Air (A - indicate on map) Boat X (A - indicate on map)					
Ground × (G - indicate on map)					
Known cultural resources (AHRS #) Data Source					
Oil conditions/beach visibility MoDERATE					
Width of beach zone surveyed 20-40 m Tree fringe surveyed 10 m.					
Cultural resources observed in beach zone (AHRS code) Now E					
Cultural resources observed in tree fringe (AHRS code) FXF					
General observations justifying survey method and segment's site probability:					
Shore Profile WARIABLE, W/ SOME WIDE FLAT AREAS W/GENTLE TO STEEP SLOPES					
Fresh Water Sources SEEPS					
Sea Exposure OPEN TO EAST					
Access/Safety PROTECTED COVES AND ROCKY SHORES, POOR ACCESS					
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 # $(.w. 8)$ Frames $14-19$					
Observer(s) ANDREFSKY / C. WILSON					
Time survey started 9:30 Time survey ended 10:30					
Cultural resource considerations/restraints:					
IF CLOAN-UP OCCURS, RESTRICT ACCESS TO FXF", which is					
highly visible from shore.					



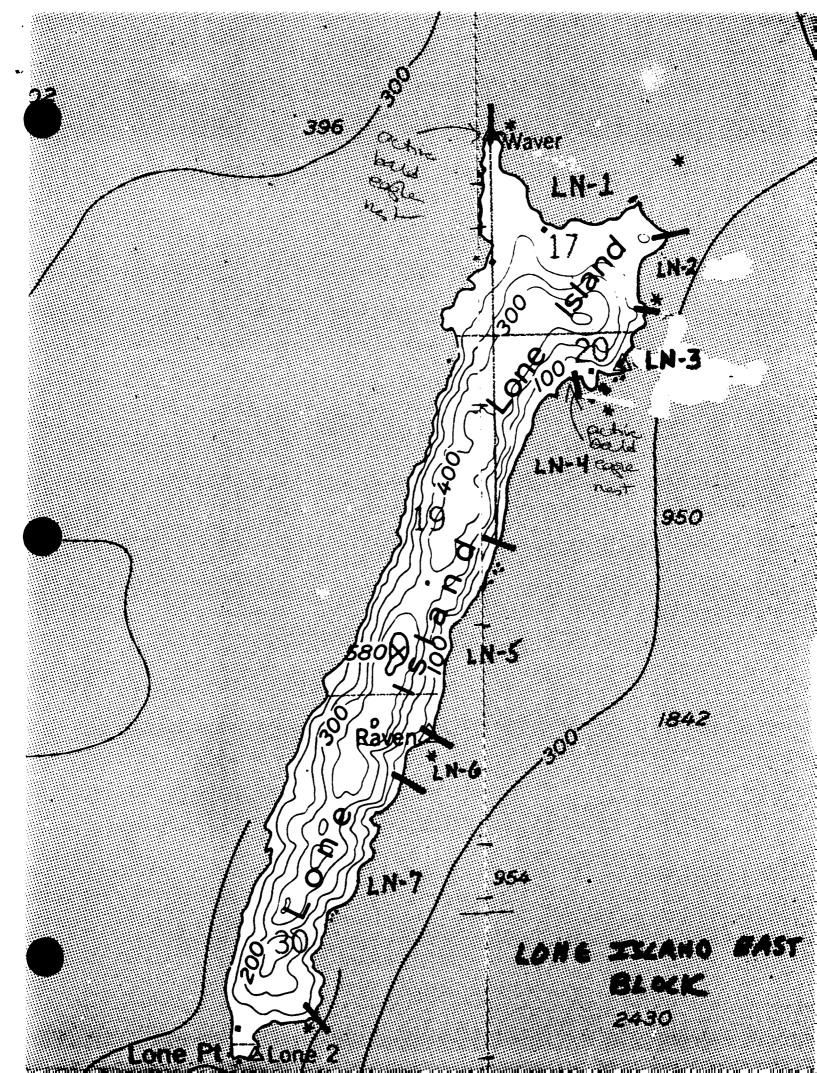
MODELLER CLEARLY PRO-

DATE_	5/2	2/39			SHORELI	ie sec	GMENT_	IN-3	
LOCAT	ion:	(526	enclosed	жар)	Lone Isla	nđ			
ADEC	NO		shore	LINE ASS	ESSMENT DAT	'E	5/10/	′89	
1) L 2) C 3) C	ocate lean ut fu	smal only cus a		beach at ng/warm- oiled ro	south end hot (up to cks.				
Prior	ities	Cons	ideration	s:					
C	lass	2B							
Ecolo	gical	Cons	traints (from site	survey):				
01	nly. T	Probability of	ingefines.	Pro	lean rock	taces tusku	at hi	igh tide	
If he during take	reto cle acti	fore anup, ons	undiscove contact prescribe	ered cul Exxon's d in 't	site survey tural mat Archeologic ne Operati ns amended.	erial	ield D	irector a	
Oha State		7.A.) Preservat:	ion Offic	er *	Dat	e: <u> </u>	4 22, 198 26/8°	1
evyon.	- /	Am				Date	lla	26/8	7
rosc:	Lar	d	Samale	a'		Date	e: 5/s	17/19	
		6	<i>y</i>				6		

Date: 5/00/89 Time: 10:3	Observer: RICK GILLE
Surveyed From: Foot/Boat/Helio/Plane	Weather: Sun/Cloud/Rain/Snow/Fog
LOCATION	
LOCATION LONE 18CAND	SEGMENT NUMBER
LENGTH OF SHORELINE SEGMENT: 800	
ACCESS: Foot/Vehicle/Boat/Barge/Heli	o/Float Plane
SHORELINE:	
Shoreline Type:SPI BEA/COV/HLD/STRT	Slope: LANG/HANG/VER
Wave Exposure: High/Med/Low	
Sediment: B 20% / C% / P% / G	_1 / S_1 / M_1 /R_801
Drift Debris on Beach: Yes No	Supra/Upper/Mid/Lower Type LOG 5
OIL	
Degree of Oiling: Heavy Moderate	Light No Oil/Unobserved
Area of Beach Impact: SU / SP / H /	M / L
Continuous: YN % of Segment_	10 Width of Band: 10 m
Sporadic: Y/N % of Segment	
Est. Oil Thickness where > lcm:	cm Est. Oil Penetration: 15 cm
Pooled Oil: % "Free" Oil: %	Coated: H 80 } /M
Fresh 180 tousse	
Drift Debris Oiled ? Yes/No Supra U	pper/Mid/Lower Amount: H/M(L/)
Comments:	
- LIGHT OILING EXCEPT FOIZ	
AT SOUTH END (NEAR "SAM	340")
-ACCEST TO COVE BY NAPPROW (3	HOM) DEEP CHANNEL

	LOCATION: Long Island SITE: North Fast tip OBSERVER: Greg Chaney
	LOCATION PREFIX: No.: 3 LENGTH: (M)
	DATE: May /20/89 TIME (HHMM): 2 Noon TIDE HT.: 23 (M)
	OILED ZONE: Splash High Medium Low
	SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud
	LIVE BIOTA
	Fucus (algae): Patchy YN Contin. WN Dense N Sparse Y/N None Y/N
	heavy concentrations on wave cut platforms - very law intertidal
	Mytilus (Mussels): Patchy Y Contin. W/N Dense W/N Sparse Y/N None Y/N
	heavy concentrations on vertical faces - mid intertidal
	Balanus (Barnacles): Patchy Y N Contin. Y N Dense Y N Sparse Y/N None Y/N
	Barnades in heavy concentrations at times
	Littorina Patchy (Y)N Contin. Y/N Dense Y/N Sparse (D)N None Y/N
	localized patches of "rea snails"
	Limpets: Patchy Y/N Contin. Y/N Dense Y/N Sparse E/N None Y/N
	Frax port Individuals spread own the interticular your
	OTHER OBSERVATIONS: - only went ashore in one pocket beach . This
	area heavle insacted at highest tide water line
Z+	possible, blast fock faces clean without washing oil onto rocks below - high tide que CLEANUP PRECAUTIONS: In pochet leach it may be difficult to get
l.	the a shimmer & barge close to beach. Hot water flushing of to the
	ulder beach recommended. Must not contaminate lower intertidal
•	MAMMALS: Otters \(\int \) Harbor Seals \(\int \) Sea Lions \(\int \) Whales \(\int \)
	BIRDS: Eagle pair nest site probable
	The pocket beach is hearly oiled. Oil is layered spread on back
	the pocket beach is hearly oiled. Oil is lowered spread on back
	side of rocky inlet.
	/

Date 5-20-89 Location LONE ISLAND Site EAST SIDE (MPCA)
Location Prefix LN Segment # 3 Length 800 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 VARIABLE, LIGHT IN MOST CASES.
Width of beach zone surveyed 10-20 m Tree fringe surveyed NONE
Cultural resources observed in beach zone (AHRS code) NONE
Cultural resources observed in tree fringe (AHRS code) NONE
General observations justifying survey method and segment's site probability:
Shore Profile Some cobble beaches, but mostly steep Rock WALLS
Fresh Water Sources SeepS
Sea Exposure OPEN TO EAST
Access/Safety Poor Access in most Places
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) ANDREFSKY / C. WILSON
Time survey started 10:30 Am Time survey ended 11:45 Am
Cultural resource considerations/restraints:
Low Probability of cultural resources, but if hereto fore unidentified
cultural material is discovered during clean-up notify Exxon Anchaeologist
C. M.bley immediately.



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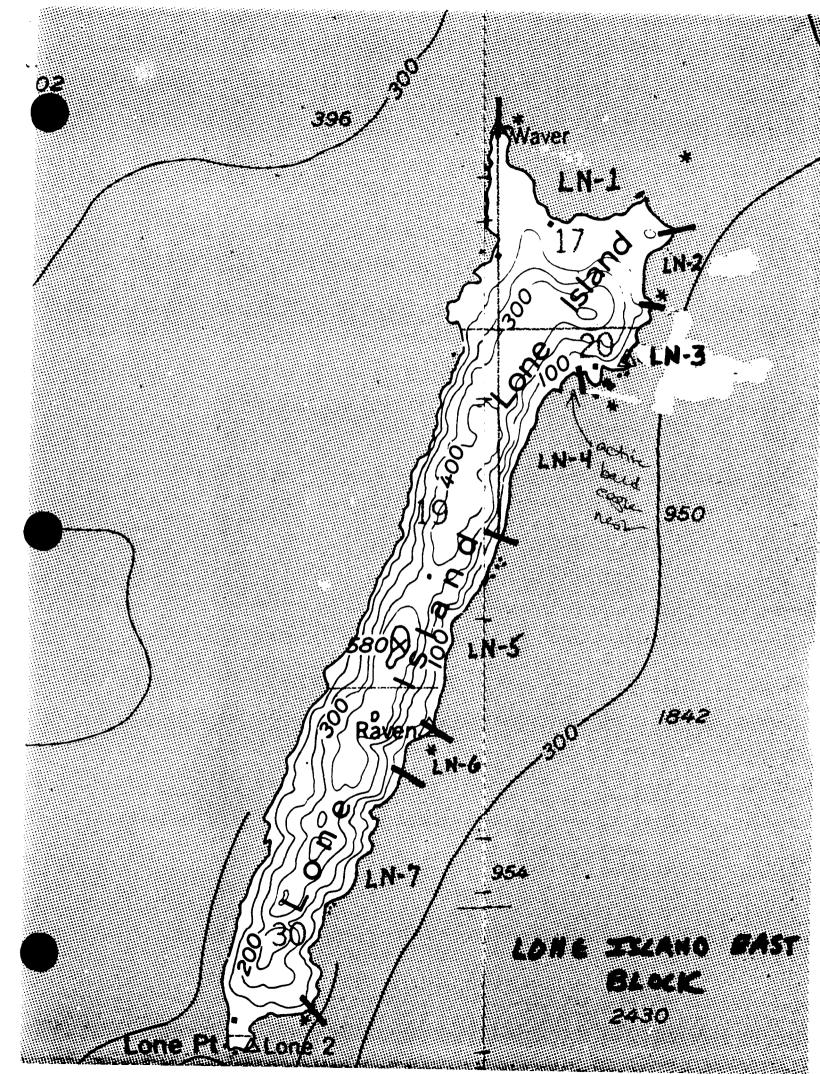
SHORELINE CLEANUP PROGRAM

	B_3/22/8	<u> </u>	SHUKELLINE SI	EGMENT_LN-4
LOC	CATION: (s	see enclosed map)	Lone Isl	and
				·
ADE	C NO	shoreline as	SSESSMENT DATE:_	5/20/89
Rec	commended	Cleanup Activity(ie	es):	
1)	cobble/b	al cleanup recomment oulder beaches using 40 F) at moderate p	ng washing/floodi	
Pri	orities C	onsiderations:		
	Class 2B	/3B		
Eco	logical C	onstraints (from si	te survey):	
	Cleanup present.	at mid to high tide	e only if intert	idal funa/flora
2)		licopters near eagl	e nest site.	
II dur: take	heological heretofor ing clean e actions	l Constraints (from re undiscovered c up, contact Exxon's	ultural materia Archeological the Operational	ls are uncovered Field Director and l Guidelines for
Stal	Marie 1	Holm. C Preservation Off.		te: <u>May 22 1989</u>
exx()#: <u></u>	Bal	Da	te: May 26 /07
POS (Maril	Zanostri	Da	te: 5/32/59

Date: 5/20/89, Time: 15:23 Observer: Rick CTLLIE
Surveyed From: Foot Boat Helio/Plane Weather: Sun Cloud/Rain/Snow/Fog
LOCATION
LOCATION LONE INLAND SEGMENT NUMBER LN-4
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/YER
Wave Exposure: High Med/Low
Sediment: B10 8 / C40 8 / P30 8 / G_8 / S_8 / M_8 /R20 8 FUCUS ALCA
Drift Debris on Beach: (es)No Supra Upper Mid/Lower Type LOGS
OIL
Degree of Oiling: Heavy Moderate Light/No Oil/Unobserved
Area of Beach Impact: SU / SP H M L
Continuous: YN % of Segment 50 Width of Band: 12 m
Sporadic: Y/N % of Segment
Est. Oil Thickness where > 1cm:cm
Pooled Oil:% "Free" Oil:% Coated: H_30% /M_70% /L%
Fresh \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Drift Debris Oiled ? (Yes) No Supra Upper Mid/Lower Amount: H/M/L/
Comments:
- BOACH OILED ABOVE 7FT TIDE LEVEL
- BOULDER COVE AND TWO COBBLE/BOULDER BEACHER BOUNDED BY
HIGH BEDROCK CLIPFS
- SURFACE COBBLES HAVE BEEN CLEANED BY WAVE ACTUAL BUT
100% COATING AT DEPTH TO 30 CM.
GOOD ACRESS DEED WATER IN SHORE.

East side LOCATION: Lone Island SITE: + OBSERVER: 6 reg Chaney LOCATION PREFIX: LN SEG. NO.:___ TIDE HT.: ~ 3 TIME (HHMM): 3:30 pm DATE: May / 20 /89 OILED ZONE: (Splash High) Medium Low SUBSTRATUM: Rocks Boulder Cobble Gravel Sand LIVE BIOTA Fucus (algae): Patchy (Y) N Contin. Y/N Dense (Y) N Sparse Y/N None Y/N attached to stable rock faces, oiled in some areas Mytilus (Mussels): Patchy (Y)N Contin. YN Dense (Y)N Sparse YN None Y/N growing in descrites bands along some rock faces Balanus (Barnacles): Patchy (Y/N Contin. Y/N Dense (Y/N Sparse Y/N None Y/N growing in bands on stable rock fores and smaller Littorina
Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N found a few sports where see annils were alreadent on stable rock Limpets: Patchy YN Contin. YN Dense YN Sparse YN None Y/N Hew observed none in oiled gone OTHER OBSERVATIONS: several small fish in inthe water just off shore very light sheen observed in water CLEANUP PRECAUTIONS: Minor areas where fucus should be removed sock faces Clanus should weed near to high tide of intertidal life to in. Harbor Seals ___ Sea Lions __ MAMMALS: Otters BIRDS: 2 eagles possible nest site GENERAL OBSERVATIONS: Survey done at high tide. This was done because low tide observations showed no oil in lower tidal regions, day was calm and clear. An Possible to see to lower tide level zone through water.

Date 5-20-89 Location Love Island site
Location Prefix LN Segment # 4 Length 400 m.
Survey Method:
Air (A - indicate on map) Boat X (A - indicate on map)
Ground X (G - indicate on map)
Known cultural resources (AHRS #) Data Source
Oil conditions/beach visibility moderate oil cover to Light
Width of beach zone surveyed 20-30 m Tree fringe surveyed On.
Cultural resources observed in beach zone (AHRS code) NoNE
Cultural resources observed in tree fringe (AHRS code) NONE
General observations justifying survey method and segment's site probability:
Shore Profile medjum size cobbles on a gentle slope
Fresh Water Sources Sups
Sea Exposure open to East
Access/Safety Guid Access
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) ANDREFSKY
Time survey started 3:30 PM Time survey ended 4:00 PM
Cultural resource considerations/restraints:
If heretofore undocumented sites are discounsed contact Expor
Archaeologist immediately - C. Mobley.



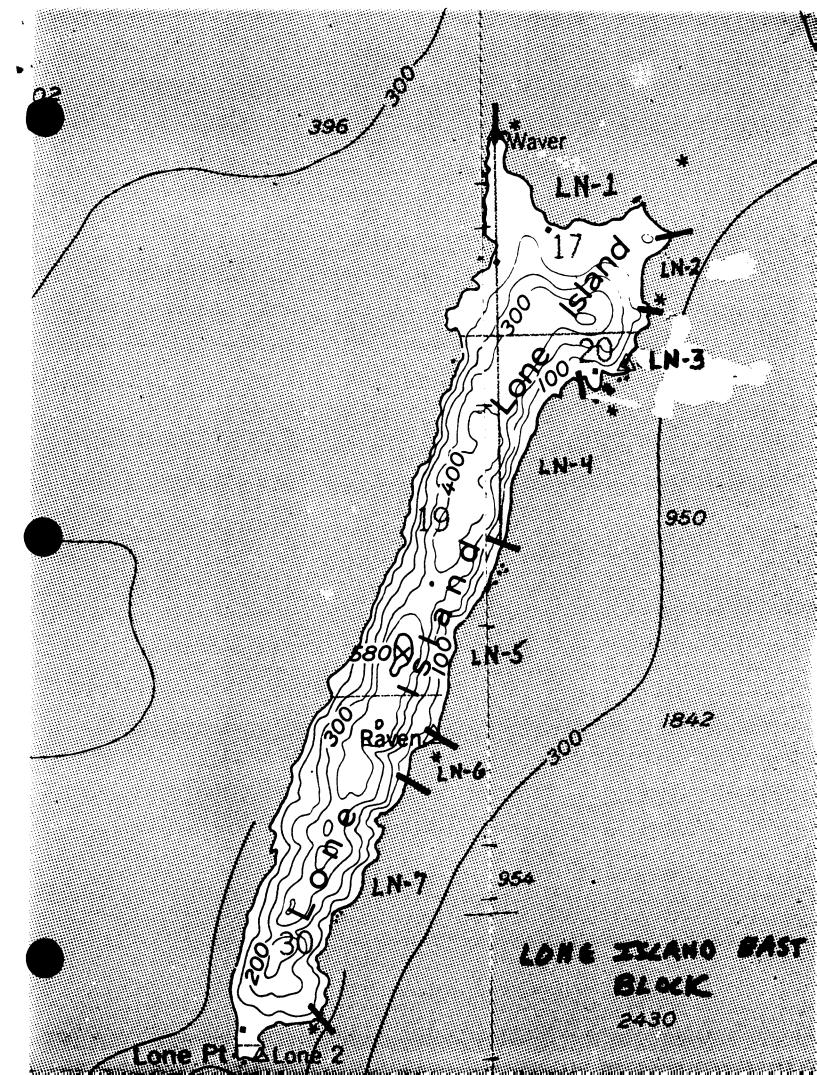
SECRELIES CLEANUP PROGRAM

DATE5	/22/89	SHORELINE SEGMENT	LN-5
LOCATION:	(see enclosed map)_	Lone Island	
ADEC NO	SHORELINE	ASSESSMENT DATE: 5/20/89	
Recommende	ed Cleanup Activity(ies):	
1) Low p	ressure warm water (up to 140 F) at high tide.	· ·
2) Washi coves		pressure for two small	boulder
Priorities	s Considerations:		
Class	4B		
Ecological	l Constraints (from s	site survey):	
Use ca	aution not to oil low	ver intertidal zone.	
If hereto during cle take acti	eanup, contact Exxon	cultural materials are 's Archeological Field Di the Operational Guide	rector and
Charle State Hist	E Holme,	Date: May	22,1984
EXXON:	Mal Sawodli	Date: May	26 /89
rosc: Na	ma suise lu	Date:	7/19

Date: 5/20/89, Time: 10:17	Observer: Rick GILLIE
Surveyed From: Foot Boat Helio/Plane	Weather: Sun/cloud/Rain/Snow/Fog
LOCATION	
LOCATION LONE ISLAND	SEGMENT NUMBER
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	
Sediment: B O	\$ / S\$ / M\$ /R90\$
Drift Debris on Beach: Yes No Su	pra/Upper/Mid/Lower Type
OIL	
Degree of Oiling: Heavy/Moderate/L	ight/No Oil/Unobserved
Area of Beach Impact: SU SP H/M	/ L
	Width of Band:m
Sporadic: YN % of Segment	5
Est. Oil Thickness where > 1cm:c	m Est. Oil Penetration:cm
Pooled Oil:% "Free" Oil:%	
Fresh 50 % Mousse 50	% Tar Formation:%
Drift Debris Oiled ? Yes No Supra/Up	per/Mid/Lower Amount: H/M/L/
Comments:	·
- TWO SMALL BOULDER COVES	WITH MODERATE OILING (VERLY
LIMITED)	
- 2 30 CM HIGH COATED OIL	
- GOOD ACRESS, DOEN WATER	CLOSE TO SHOPE

LOCATION: Lone Island SITE: East Side OBSERVER: Greg Chance
LOCATION: Love Island SITE: East Side OBSERVER: Greg Chance LOCATION PREFIX: LN SEG. NO.: 5 LENGTH: 900 (M)
DATE: May /20/89 TIME (HHMM): 4:00 pm TIDE HT.: ~ 3 (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
Growth in fairly continous band at base of rock face
Mytilus (Mussels): Patchy YN Contin. YN Dense YN Sparse Y/ None Y/N
Growth in fairly continous band at base of rock cliff
Balanus (Barnacles): Patchy YN Contin. WN Dense YN Sparse YN None YN
Srowth fairly continous band above mussels
Littorina
Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
Did not get close enough to observe these organisms (steep rock face)
Limpets: Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
Did not get close enough to observe these organisms (Steep rock face)
Did not get close enough to observe these organisms (steep rock face) OTHER OBSERVATIONS: Band about 1 th high at highest high tide
reach is piled. Oil only adheres where mussels and barnacles provide a
rough surface. Some Small patches of oiled fueus observed
CLEANUP PRECAUTIONS: Oil is concentrated along high intertidal, Caution
should be used not to oil lower intertidal zone
MAMMALS: Otters O Harbor Seals O Sea Lions O Whales O
BIRDS: Sand Dioers
GENERAL OBSERVATIONS: Some hand schools of finger lings
light sheen on water off shore

Date 5-20-89 Location Long Island site
Location Prefix LN Segment # 5 Length 900 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 light oil cover
Width of beach zone surveyed No beach m Tree fringe surveyed NoNE
Cultural resources observed in beach zone (AHRS code) Nove
Cultural resources observed in tree fringe (AHRS code) NONE
General observations justifying survey method and segment's site probability:
Shore Profile No beach with very Steep Rock walls
Fresh Water Sources Seeps, No Streams
Sea Exposure open to east
Access/Safety water to rock wall, poor to fair Access
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) ANDREFSKY
Time survey started 4:00 fm Time survey ended 4:20 fm
Cultural resource considerations/restraints:
If heretotone undocumented sites are discovered contact
Exxo- Archaeologist Chuck Mobley immediately.



SHORELINE CLEANUP PROGRAM

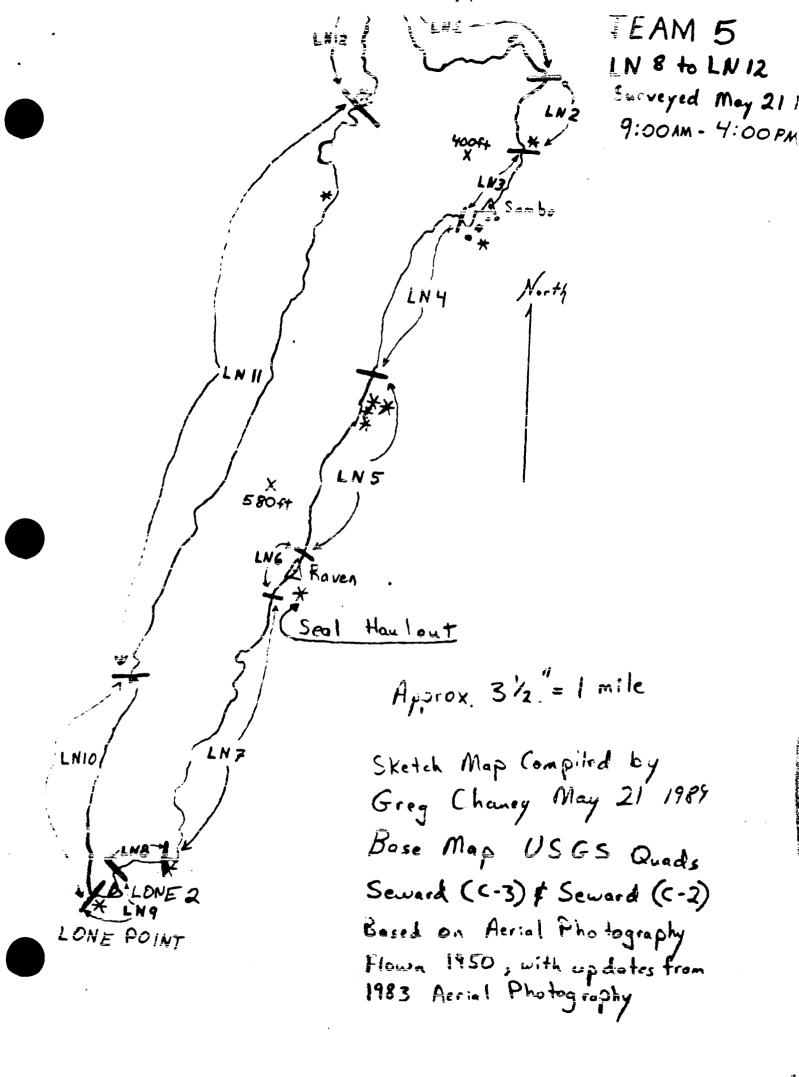
DAT	E 5/2	2/89	Berlinkering-doublewee	SHORELI	NE SEGMENT_	LN-6
LOC	ATION:	(see en	closed map)_	Lone Islar	nd	
ADE	C NO		SHORELINE	ASSESSMENT DA	TE: 5/20/	89
Rec	ommende	d Clean	up Activity(ies):		
1) 2) 3)	Washin (up to	g/flood 140 F)	ing with mod at mid-tide	pools at morth derate pressur level. ris prior to	re hot water	
Pri	orities	Conside	erations:			
	Class :	2A (crit	tical resour	ces present)	Seal Haulou	t
Eco]	logical	Constra	aints (from	site survey):		
	souther	rn porti	ion of beach	avoid oiling, rocks off siuld be taken	hore are use	d as a seal
Acce If duri take	hereton ing clea	the upl fore un anup, co ons pre	ands inside ndiscovered ontact Exxon escribed in	the treeline cultural made is Archeologic the Operation as amended	should be pared are cal Field Discional Guide	uncovered rector and
Stat	Chelle e Histo	ZA pric Pre	has eservation of	fficer *	Date: Ma	y 22,1989
EXXO FOSC	Ho	Real	aurofli		Date: 50	\$ 7/89

Date: 5/20/89/ Time: 17:00	Observer: RICK GILLIE
Surveyed From: Foot/Boat/Helio/Plane	Weather: Sun/Cloud/Rain/Snow/Fog
LOCATION	
LOCATION LONE ISLAND SE	GMENT NUMBER
LENGTH OF SHORELINE SEGMENT: 350	_m
ACCESS: Foot/Vehicle Boat Barge Heliø/Fl	oat Plane
SHORELINE:	
Shoreline Type:SPI BEA COV/HLD/STRT	Slope: LANG/HANG/VER
Wave Exposure: (High Med/Low	•
Sediment: B25% / C50% / P20% / G_% /	5 5 8 / M_ 8 /R_ 8 Ficus,
Drift Debris on Beach: (Yes/No Supra	Upper Mid/Lower Type LOGS
OIL	
Degree of Oiling: Heavy Moderate Light	t)No Oil/Unobserved
Area of Beach Impact: SU / SP (H) M /	
Continuous: YN % of Segment 3	Width of Band:
Sporadic: (Y)N % of Segment_30	<u> </u>
Est. Oil Thickness where > 1cm: 10 cm	Est. Oil Penetration: 30 cm
Pooled Oil: 5 % "Free" Oil:% Coa	ted: H_20 % /M_60% /L 90 %
Fresh QD & Mousse 10	_% Tar Formation:%
Drift Debris Oiled ? Yes No Supra Upper	Mid/Lower Amount: H/M/L/
Comments:	
NORTH END OF BAY HEAVILY OILED F	OR 100 M LENGTH
POOLED MOUSSE AT NORTH E	ND (MGH TIDE)
ACCERS HINDERED BY REEFS EXP	THE MID-TO-LOW THE
•	

	LOCATION: Love Island SITE: East side OBSERVER: Greg Chancy
	LOCATION PREFIX: LN SEG. NO.: 6 LENGTH: 700300(M)
	DATE: May / 20 / 89 TIME (HHMM): 5:80 pm TIDE HT.: ~2 (M)
13	OILED ZONE: Splash High Medium Low
3	SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud
	LIVE BIOTA - ONLY NORTHERN END OF BEACH & SOUTH END NEARLY STERILE & 1.4
3	Fucus (algae): Patchy YN Contin. YN Dense YN Sparse YN None YN
13	Patches of heavyly viled ficeus, already depolisted in some areas
4	Mytilus (Mussels): Patchy Y)N Contin. Y/N Dense Y/N Sparse Y)N None Y/N
1	Longe potches of dead mussels in north section where ail is heavy
13	Balanus (Barnacles): Patchy (N Contin. Y N Dense Y N Sparse Y/N None Y/N
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Barnacles are falling off rocks in heavyly oiled section
Ţ	Littorina
	Patchy (Y)N Contin. Y/N Dense Y/N Sparse (Y)N None Y/N
143	Lew snails observed in oiled 3 one
1 }	Limpets: Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
न्य	several dead limpets in hanty heavyly oiled section
12	OTHER OBSERVATIONS: Oil Concentrated at northern portion of the
13	beach. Efforts should be made to avoid oiling lower intertidal but region is of low biological productivity. Oiled drift debris should be picked u
`	region is of low biological productioning. Oiled drift debris should be picked u
	CLEANUP PRECAUTIONS: Steps Should be taken to avoid harrassian seals
	CLEANUP PRECAUTIONS: Steps Should be taken to avoid harrassian seals
•	cleanup precautions: Steps Should be taken to avoid harressing seals at rocky haulout just off Shore - near southern end of beach MAMMALS: Otters Harbor Seals 10 Sea Lions Whales
	CLEANUP PRECAUTIONS: Steps Should be taken to avoid harrassing seals who rocky haulout just off Shore - near southern end of beach MAMMALS: Otters Harbor Seals 10 sea Lions Whales Other BIRDS: Yellowlegs
	cleanup precautions: Steps Should be taken to avoid harressing seals at rocky haulout just off Shore - near southern end of beach MAMMALS: Otters Harbor Seals 10 Sea Lions Whales

(version of 4/29/89)

DateLocation Lowe IslandSite
Location Prefix LN Segment # 6 Length Page M
Survey Method:
Air(A - indicate on map) Boat(A - indicate on map)
Ground \times (G - indicate on map)
Known cultural resources (AHRS #) Data Source
Oil conditions/beach visibility Variable from heavy to Light
Width of beach zone surveyed 30-50 m Tree fringe surveyed 10 m.
Cultural resources observed in beach zone (AHRS code) NoNE
Cultural resources observed in tree fringe (AHRS code) <u>FXF</u>
eneral observations justifying survey method and segment's site probability:
Shore Profile gentle beach slope
Fresh Water Sources heavy seeps on either side of banch
Sea Exposure open to east
Access/Safety good Access
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 # WAI-7 Frames 7,8,9
B/W Roll # Frames
Observer(s) ANDREFSKY
Time survey started 4:20 PM Time survey ended 6:00 PM
Cultural resource considerations/restraints:
Fox trap Feature is just off beach in approximate center. This site should
Be protected when and if the beach is cleaned. If bourtstoke undorgnewted
sites are discovered contact Exxon Anchaeologist church Mobley immediately.
· · · · · · · · · · · · · · · · · · ·



SHORELINE CLEANUP PROGRAM

DATE5/2	2/89	SHORELINE SEC	GMENT LN-7
LOCATION: (see enclosed map)	Lone Island	
ADEC NO	SHORELINE A	SSESSMENT DATE:	5/20/89
Recommended	Cleanup Activity(i	es):	
Low press	sure warm water at l	nigh tide.	
Priorities (Considerations:		
Class 4B.	• 1	-	
Ecological (Constraints (from si	te survey):	
Caution a	should be used not t	o oil lower inter	tidal zone.
If heretofo during clear take action	al Constraints (from ore undiscovered of nup, contact Exxon's ns prescribed in eanup dated 4/21/89	ultural material Archeological F: the Operational	ield Director and
Marlu State Histor	7 Homes ic Preservation Off	Date	e: <u>May 22, 1989</u> e: <u>May 26 /89</u>
EXXON:		Date	: thy 26 /89
FOSC: Ward	of sansoln	Date	2: 7/47/89

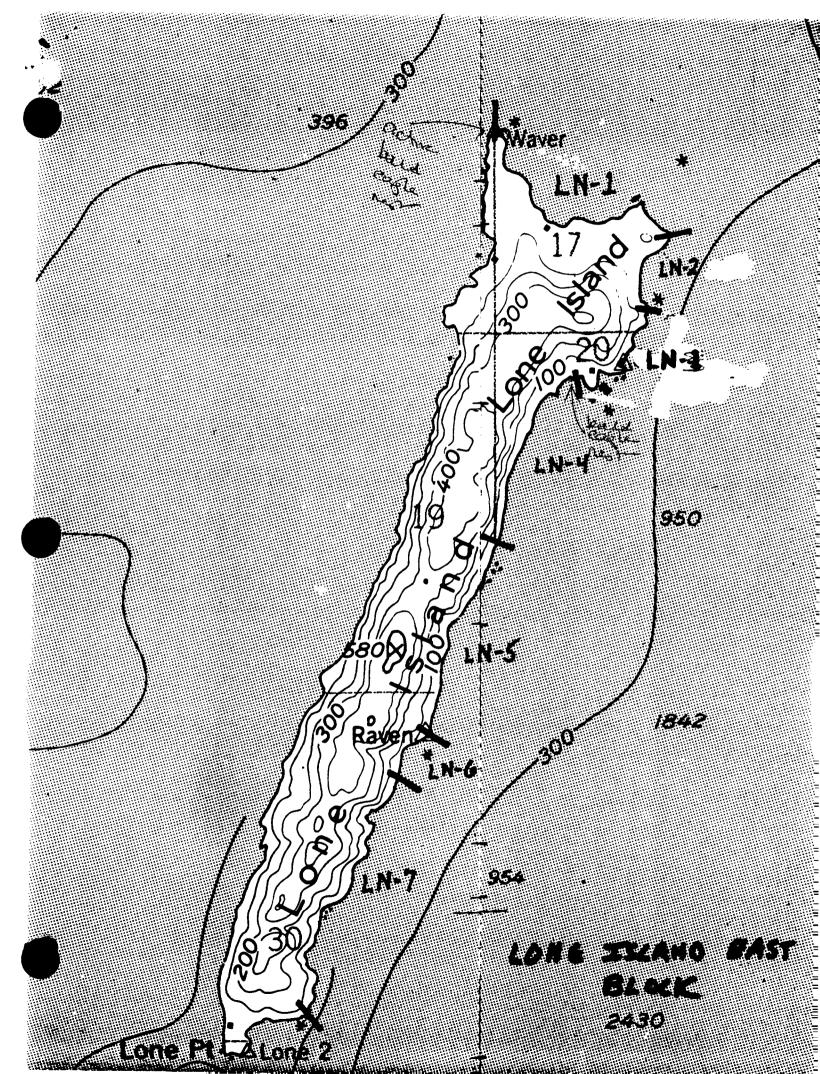
^{*} Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands.

Date: 5/20/89 Time: 17:45 Observer: RICK TILLE
Surveyed From: Foot/Boat/Helio/Plane Weather: Sun/Cloud/Rain/Snow/Fog
LOCATION
LOCATION LONG ISLAND SEGMENT NUMBER LN-7
LENGTH OF SHORELINE SEGMENT: 1,400 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 / C * / P * / G * / S * / M * /R 90 *
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: YN % of Segment
Est. Oil Thickness where > 1cm:cm
Pooled Oil:% "Free" Oil:% Coated: H% /M% /L_5%
Fresh
Drift Debris Oiled ? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L/
Comments: -MOST OF SEGMENT BEDROCK CLIFF
-TWO SMAN BOULDER COVES

ECOLOGICAL EVALUATION

LOCATION: Lone Island SITE: East Side OBSERVER: Greg Change
LOCATION PREFIX: LN SEG. NO.: 7 LENGTH: 1000 (M)
DATE: May /20 /1987 TIME (HHMM): 6:00 pm TIDE HT.: ~1.5 (M)
OILED ZONE: Splash High Medium Low
SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud
LIVE BIOTA Small pocket brackes less than 10%
Fucus (algae): Patchy YN Contin. WN Dense YN Sparse YN None Y/N
Growth in fairly continous band at base of rock sliff
Mytilus (Mussels): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
Showth in fairly continous land at base of slift face
Balanus (Barnacles): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
Growth fairly continous in a band above musuls.
Littorina Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
Did not approach close enough to observe smails (steeprock face)
Limpets: Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
Did not approach close enough to observe limpets (steep mek face)
OTHER OBSERVATIONS: Thin oil sheen on water, harge schools of
tish 2 to 5 cm.
CLEANUP PRECAUTIONS: If cleanup is attempted, rich lower tidal regions
should be protected from oiling
\mathcal{O}
MAMMALS: Otters Harbor Seals Sea Lions Whales
BIRDS: Dippers?
GENERAL OBSERVATIONS: Small focket beacher along major rock walls,
on things oil thins toward the south

Date 5-20-89 Location Love Island Site
Location Prefix LN Segment # 7 Length 12/00 m.
Survey Method:
Air (A - indicate on map) Boat X (A - indicate on map)
Ground × (G - indicate on map)
Known cultural resources (AHRS #) Data Source
Oil conditions/beach visibility moderate oil on rock wall at high tide
Width of beach zone surveyed No brack m Tree fringe surveyed Nove
Cultural resources observed in beach zone (AHRS code) None
Cultural resources observed in tree fringe (AHRS code)
General observations justifying survey method and segment's site probability:
Shore Profile Rock walls occur right to water's edge
Fresh Water Sources Seeps, No Stream
Sea Exposure open to east
Access/Safety Access is Pook.
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) ANDREFSKY
Time survey started 6:00 PM Time survey ended 6:20 PM
Cultural resource considerations/restraints:
If hereto Some undocumented sites are discovered contact Exxon
archaeologist Chuck Mobiley immediately



		1077	4 0
	UN 4 BECOM		
177		npleted for this Segment	
	water wash	Mechanica	
	m water wash er deluge	Non-mechanicalOther	
Exxon	A 001080	Other	
,	cated above has been co	mpleted. Request demobilizat	lon
•			
_		ment LN-1 is Comple	To.
		Deployment To New Seg	
Signature	Horald A Rusell	Date: 8/19/89Time	1255
Printed Na	ine Harold A Russe !		
•	ine Condition As	·	ndiian Aa
Visually Detern	nined by USCG	Existing Shoreline Co Visually Determined b	y ADEC
Surfa	ce Oil Degree of Oiling	Surface Oil	•
r eloetit		Percent Degree of (Sutus a
	Heavy Medium	Heavy Medium	1
99		Light	-1
75 3	None	Very Li None	Rur
100 9	4	100 %	
Subauri		Subsurface C	
Yes	∐ No	Yes	∟ No
COMMENT BELC) W	COMMENT BELOW	
Reassess	nent	Reassessment	
Yes - neces		Yes - necessary	
No - not ne	cessary unless re-oiled	No - not necessary u	nless re-oiled
ADEC rep			
Comments	ADEC 1.0 Unau	eilable - verbolly	approved
on 8-17	-87		
Signature		Date: / / Time:	
Printed Name			
FOSC rep	Demobilizatio	approved disapproved	
Comments Tain	emous defeir to con	tainment been 14514F)
		ate: 8 /19/89 Time: /3/5	·
Printed Name Pay		A COLUMN TO THE REAL PROPERTY AND ADDRESS OF THE PARTY AND ADDRESS OF T	
COPY: EXXON	ADEC FOSC ISCO		•

•		
SEG LN-2	INSPECTION # SE	GMENT
DATE 8-11-89	INSPECTIO	N RECORD
Shorelin	Hot water wash Warm water wash Water deluge	Completed for this Segment Mechanical Non-mechanical Other
Exxon		
Treatment	as indicated above has been	completed. Request demobilization
from this		
. <u>C</u>	imments No Theatment	WAS required For Segment
	. N-2	i V
<u></u>	ignature Honold A Russe	Date: 8/12/39Time: 14:25
<u>P</u>	rinted Name HArold A Russ	*1)
Existing	Shoreline Condition As V	isually Determined by USCG
	Surface Oil	Subsurface Oil
	Percent Degree of Oiling	⊠ Yes □ No
•	Heavy Medium Je Light Very Light None	Comments <u>Light</u> in colble
Reassess	ment Yes - necessary	No - not necessary unless re-oiled
ADEC rep		.
	Comments ADEC reg	net available
•	approved	prior Visit
:	Signature	Date: / i / Time:
. ,	Printed Name	
FOSC rep	Comments No Grate Co-	on approved disapproved
	Signature Paul B. Ha	- Concir with 5007 3 wold Date: 8/12/197Time: 1435

SEG <u>LN 3</u> II DATE <u>8-12-89</u>	NSPECTION # SEGMENTINSPECTION R	
Shoreling	Hot water wash Warm water wash Water deluge	pleted for this Segment Mechanical Non-mechanical Other
from this	as indicated above has been compagnent. comments No Treatment was	
	gnature Karell A Russell	Date: g//2/39Time: 14:26
<u>Pr</u>	inted Name Harold A Russell	
Existing	Shoreline Condition As Visua	lly Determined by USCG
	Surface Oil Percent Degree of Oiling	Subsurface Oil Yes No
- - - -	Heavy Medium 196 Light 198 Very Light None	Comments contained in one Small beach area
Reassess	ment	
	Yes - necessary	No - not necessary unless re-oiled
ADEC rep	Comments ADEC rep	not available
	approved p	riar visid
•	GI	
	Signature Printed Name	Date: / / Time:
FOSC rep	Demobilization Comments Concurrentith. treatment required	
	Signature Fand B. Hans	La Date: 8 /12/49Time: 1445

10 LN6 10 11 11 11 11 11 11 11 11 11 11 11 11	. t - ²	S. Juliani	()	,
ATE_/1-12-89	INSPEC	TION R	ECORD	
Hot w	ment Process(vater wash I water wash I deluge	es) Com	pleted for this \$ Mechanical Non-mechanical Other	egment .
Exxon				
Treatment as Indic	ated above has I	been com	pleted. Request de	mobilization
from this segment.				; ·
Comments	No Treath	ent was	required for	Segment
LNG				
Signature	Harold A Ru	mell	Date: 8/1	2/84 Time: 14:30
Printed Nan	e HArold A	Russel		
Existing Shorelli	ne Condition A	As Visua	ilv Determined b	v USCG
•	Surface Oil		•	•
Perce		111 <u>-</u> -	Subsurfa	Ce UII
reice	ent Degree of O	អេពថ្ន	☐ Yes	⊠ No
	Heavy Medium		Comments	
				
	Light Very Light			
1009	None None			
100 %	_		•	
	÷			
Reassessment			N 7-	1
L Yes-n	ecessary	لبيا	No - not necessary ur	
ADEC rep Comme	ents ACEC	154	not availab	
	a spra	ved o	rier visit	
Signatu	ге		Date: /	/ Time:
'Printed	N аше		-	
FOSC rep	Demobi	lization	@pproved/disap	proved
		·	*	
	/) . 7	Haral		1/87Time: 1445.

SEG LN 7 INSPECTION # INS	SEGMEI SPECTION R	
Shoreline Treatment Proc	ess(es) Com	
Exxon		
Treatment as Indicated above from this segment. Comments No Treatments		equired for segment
Signature Kareld Printed Name Harold		Date: 8/12/89Time: 14:30
Existing Shoreline Condition		
Surface Oll		Subsurface Oil
Percent Degree	of Olling	☐ Yes
Heave Medi Ligh Very None 100 %	ium t Light	Comments
Reassessment	স	
• ——————	DEC rep	No - not necessary unless re-oiled
	porqued	prin visit
Signature Printed Name	e i selle e tro	Date: / / Time;
FOSC rep Comments	mobilization	approved disapproved
Signature Pau	DB Dans	& Date: 8' 11# 184Time: 145

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Location (see enclosed map): LONE I	SLAND WEST BLOCK
Includes Shoreline Segments: LN-8, LN-9	9. LN-10. LN-11. LN-12
Submitted: (for Extron)	Date: 5/24/89
ISCC Approval:	Date: 5/26/84
FOSC Approval: Karin Autofin	Date: 5/37/79
The cleanup procedures identified in the Sare recommended. Modifications to these sy	stems can be made in the

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

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

PWSCA USFS SHPO

BALD EAGLE ADVISORY

- 1. Aircraft:
- a. All aircraft should avoid eagle nests by 1000 ft. horizontally & 500 ft. vertically.
- b. All aircraft should avoid flying the shoreline or the treeline and should approach islands from a 90 degree angle to the shore.
- 2. Note location of live eagles that appear oiled. Report number, location & condition to RAT biologist, who will relay that information ASAP to USFWS Valdez.
- 3. Cleanup and support equipment should be located away from bald eagle nests to the extent possible. Support facilities should be at least 300 ft. away.
- 4. Bald eagle trees shold not be appraiched or climbed under any circumstances.
- 5. It is illegal to possess ANY bald eagle parts or feathers. give carcasses to RAT biologist. Leave isolated, unoiled feathers etc. where you found them.

Detached oiled popweed and kelp stranded on shorelines being cleaned should also be removed to prevent it being refloated.

Cutting of oiled popweed (fucus) still attached to the rock is generally not recommended. If it is deemed necessary by the field biologist to remove heavily oiled fucus to prevent redistribution of oil into the environment, a sufficient number of mature plants should be left in the area to facilitate recruitment. If this is not done, recruitment may not take place. The following guidelines should be used in making this decision of whether to cut or not:

- a. If overstory plants are heavily oiled, but significant numbers of unoiled younger plants are present below them, make an effort not to disturb the younger plants. It is not necessary to leave the holdfast when cutting fucus plants.
- b. In harvesting oiled fucus, leave sufficient numbers of mature plants (even if oiled) to facilitate recruitment. For best recruitment results, plants should be left within the mid-intertidal zone in patches or fringe 3-10 feet apart.
- c. If oiling is so heavy that all young plants are also heavily oiled, and the cracks and crevices are filled with oil so new plants will not have much chance of surviving, it is especially important to leave sufficient numbers of mature plants. Hopefully, enough of the plants will survive to allow recruitment the following year when proper substrate may be less oiled.

SHORELINE CLEAMUP PROGRAM

DATE 5/24/89		SHORELINE SEGN	CENT_LN-8
LOCATION: (see enc.	losed map)	Lone Island.	South end
ADEC NO.	SHORELINE ASSESS	SMENT DATE:	5/21/89
Recommended Cleanur	Activity(ies):		
Flood/flush wi clean areas	of intertidal a otection measure	zone are cove	40 F) only after red by tide or a for mid; lower
Priorities Consider	ations:		
Class 3: mode Class B: reso			
Ecological Constrai	nts (from site s	survey):	
Avoid oiling rich should be hand cut crews should be awa	and disposed of re of this possi	. Eagles nest	
Follow attached fucu	\mathcal{C}		
Archeological Const Restrict access to the tree fringe. are uncovered during Director and take Guidelines for Shore	historic structu If heretofore un g cleanup, conta e actions pre	are immediately ndiscovered cultotte cu	tural materials heological Field the Operational
State Historic Press	mes ervation Officer	Date	: May 24, 1989
EXXON:	/	Date	May 26/89
Fosc: Vant va	insight	Date	5/9:/89

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

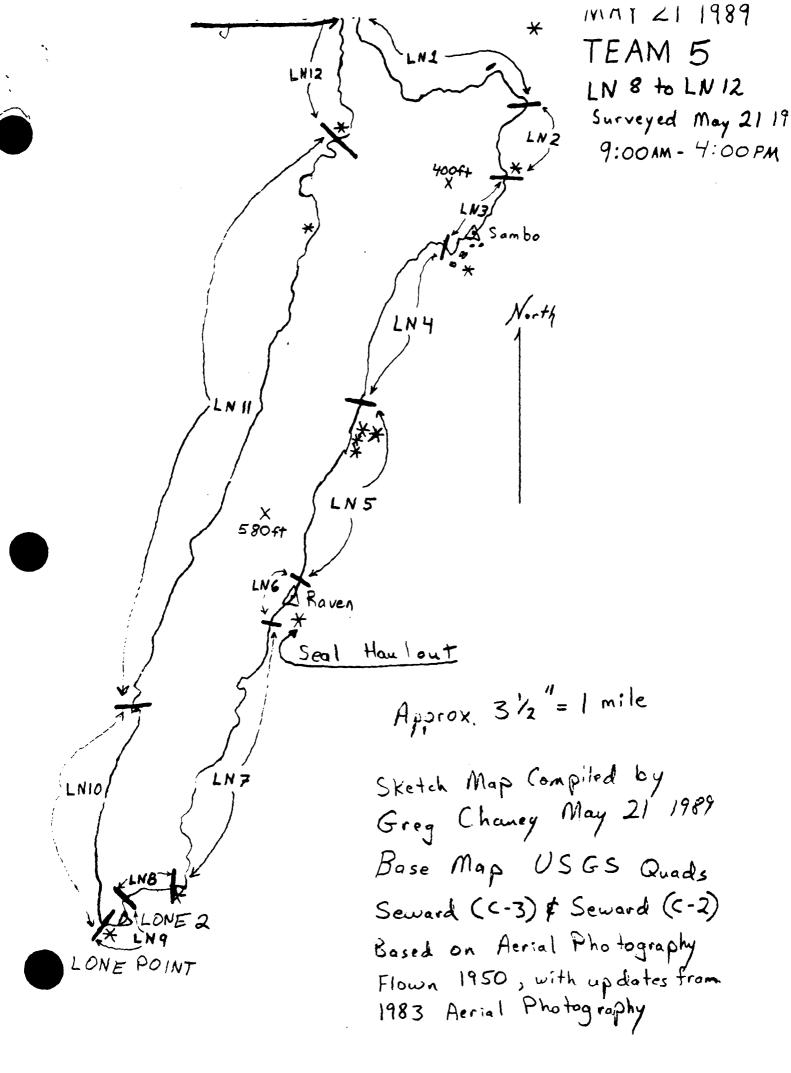
SHORELINE OIL EVALUATION

Date: 5/21/89, Time: 9:06 Observer: Rick GILLIE
Surveyed From: Foot/Boat/Helio/Plane Weather: Sun/Cloud/Rain/Snow/Fo
LOCATION
LOCATION LONG ISLAND SEGMENT NUMBER LN-8
LENGTH OF SHORELINE SEGMENT: 400 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: B3 / C30 / pl0 / G_ % / S_ % / M_ % /R30 Fucus
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: Y/N % of Segment 100 Width of Band: 20 m
Sporadic: Y/N % of Segment
Est. Oil Thickness where > 1cm:cm
Pooled Oil: % "Free" Oil: % Coated: H 10 % /M 80% /L 10 %
Fresh 180 % Mousse % Tar Formation: %
Drift Debris Oiled ? Yes No Supra Upper Mid/Lower Amount: H/M/L/
Comments:
- BOULDER SUBSTRATE AT LOW TO MEDIUM TIDE
- GRAVEL AT HIGH TIDE
- ACCESS WOBSTENCTED
- ADDITIONAL OIL ON ROCKT AT GITHER END OF COVE TREACH

MOITAULAVE LEDIEMUM

LOCATION: Long Island SITE: South END OBSERVER: Gree Chancy
LOCATION PREFIX: 1 N SEG. NO.: 8 LENGTH: 200 400 (M)
DATE: $M=4/21/89$ TIME (HIDON): 9:15 AM 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
low intertidal, mostly appears healthy, East and fucus in high intertidal is oiled
Mytilus (Mussels): Patchy YyN Contin. YN Dense Y'N Sparse Y/N None Y/
Musiels are restricted to stable rocky outerper in east section, some mortality
Musich or restricted to stable rocky outcage in east section, some mortality observed in oiled gone Balanus (Barnacles): Patchy (PN Contin. Y/K) Dense Y/K) Sparse (PN None Y/
few barnacles, seem to detach easily
Littorina Patchy Y/N Contin. YN Dense Y/N Sparse Y/N None Y/N
Large number of anails observed in from the lower tidal areas
Paul in ailed some
Wimpets: Patchy Y/W Contin. Y/W Dense Y/W Sparse WN None Y/N
Few limpets observed all dead
Few limpets observed, all dead
OTHER OBSERVATIONS: Southeast East end of beach at rock out crop, fucus
OTHER OBSERVATIONS: Southeast East end of beach at rock out crop, fucus heavyly oiled in high intertidal, Rest of beach is mostly sterile in high tide zone
Few limpets observed, all dead OTHER OBSERVATIONS: Southeast East end of beach at rock out crop, fucus heavyly oiled in high intertidal, flest of beach is mostly sterile in high tide zone CLEANUP PRECAUTIONS: De Brach cleanup should only be done at mid
Few limpets observed, all dead OTHER OBSERVATIONS: Southeast East end of beach at rock out crop, fucus heavyly oiled in high intertidal. Rest of boach is mostly sterile in high tide zone CLEANUP PRECAUTIONS: En Brack cleanup should only be done at mid to high tide. Ovoid oiling rich lower tidal region. Oiled fucus show
Few limpets observed, all dead OTHER OBSERVATIONS: Southeast East and of beach at rock out crop, fucus heavyly oiled in high intertidal, Rest of boach is mostly sterile in high tide zone CLEANUP PRECAUTIONS: De Beach cleanup should only be done at mid to high tide. Avoid oiling rich lower tidal region. Oiled fucus show be cut and disposed of MANMALS: Otters Harbor Seels See Lions Whales
The limpets observed, all dead OTHER OBSERVATIONS: Footheast East and of Deach at rock out crop, fucus heavyly o'lled in high intertidal, flest of boach is mostly sterile in high tide zone CLEANUP PRECAUTIONS: The Brack cleanup should only be done at mid to high tide. Owoid oiling rich lower tidal region. Oiled fucus show be cut and disposed of MAMMALS: Ottors Harbor Seals Sea Lions Whales
OTHER OBSERVATIONS: Southeat East end of Deach at rock out crop, fucus heavyly oiled in high intertidal, Rest of boach is mostly sterile in high tide zone CLEANUP PRECAUTIONS: Deach cleanup should only be done at mid to high tide. Ovoid oiling rich lower tidal region. Oiled fucus show be cut and disposed of MANNALS: Otters Harbor Seels See Lions Whales Other BIRDS: Bald Eagle Sitting on tree year shore, possible nest in Vicinity
The limpets observed, all dead OTHER OBSERVATIONS: Footheast East and of Deach at rock out crop, fucus heavyly o'lled in high intertidal, flest of boach is mostly sterile in high tide zone CLEANUP PRECAUTIONS: The Brack cleanup should only be done at mid to high tide. Owoid oiling rich lower tidal region. Oiled fucus show be cut and disposed of MAMMALS: Ottors Harbor Seals Sea Lions Whales

Date 5-21-99 Location Long Island site
Location Prefix LN Segment # 8 Length 300 m.
Survey Method:
Air (A - indicate on map) Boat > (A - indicate on map)
Ground X (G - indicate on map)
Known cultural resources (AHRS #) Data Source
Oil conditions/beach visibility moderate oil cover
Width of beach zone surveyed 60 m Tree fringe surveyed 5 m.
Cultural resources observed in beach zone (AHRS code) Nwc
Cultural resources observed in tree fringe (AHRS code) NONC
General observations justifying survey method and segment's site probability:
Shore Profile GRAdual slope to the beach, verious size cobbes
Fresh Water Sources Seeps, No Streams
Sea Exposure Open to the Southeast
Access/Safety cosy assess to beach, fairly safe for boot
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) ANDREFSKY
Time survey started 7:00 Am Time survey ended 7:30 Am
Cultural resource considerations/restraints:
If henctofone cultural resources are discovered during cleanup contact
Exton archaeologist Chuck Mobley immediately.



SHORELINE CLEANUP PROGRAM

DATE	5/2	4/89	, W	SH	ORELINE :	SEGMENT	LN-9
LOCA	TION:	(see	enclosed map) Lone	Island, S	outh end	
ADEC	NO		SHORELIN	E ASSESSME	NT DATE:	5/21/8	9
Recor	mmende	d Cle	anup Activit	y(ies):			
	Flood		h with warm	to hot was	ter (up t	o 140 F)	on boulder
Prior	rities	Cons	iderations:				
			low oil resources ab	sent			
conce of LN appro const very Clean	entrate 1-9, who priate raints rich	on ich meas for in in not	straints (find small oiled in small oiled in sures to present this small tertidal lift recommended sms.	notched sery sterile went oiling section. e. Highes in this a	ction at at mid to g lower i The ver	the wester high wat intertidal rocal rocal ine has less to potent	ern portion ter or take l zone. No ck face is little oil.
If h durin take	eretof g clea actio	ore nup, ons	onstraints (in undiscovered contact Exx prescribed up dated 4/21	d cultural on's Arche in the C	l materi cological operation	Field Di	rector and
(/) State	han	ric F	Preservation	Officer *		11	424,1989
EXXON	1	Dea			D	ate: Ma	26/89

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

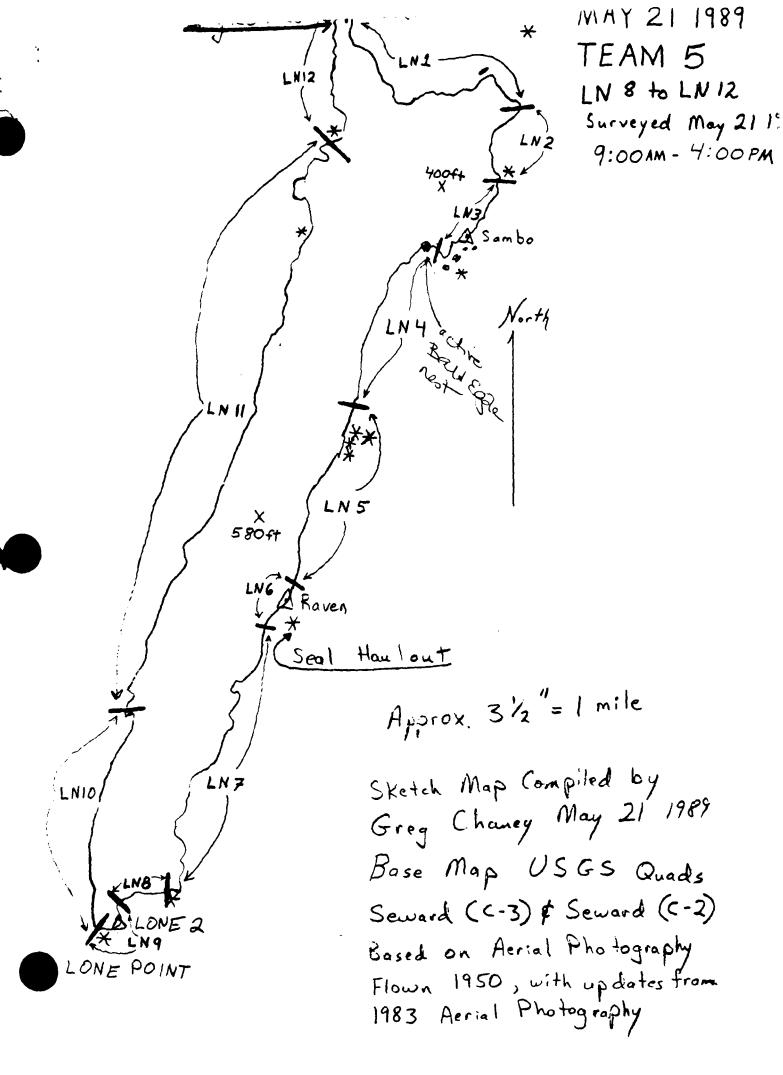
	5/20/29 SHORELINE OIL EVALUATION
_	Date: Time: 10:01 Observer: Rick GILUE
	Surveyed From: Foot Boat Helio/Plane Weather: Sun Cloud/Rain/Snow/Fog
	LOCATION
	LOCATION LONE ISLAND SEGMENT NUMBER LN-9
	LENGTH OF SHORELINE SEGMENT: 500 m
	ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane
	SHORELINE:
	Shoreline Type:SPI/BEA/COV/HLD/STRT Slope: LANG/HANG/VER
	Wave Exposure: (High) Med/Low
	Sediment: B 10% / C_% / P_% / G_% / S_% / M_% /R 90%
	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 / L
	Continuous: Y/N % of Segment Width of Band:m
	Sporadic: Y/N % of Segment 5
	Est. Oil Thickness where > 1cm:cm
	Pooled Oil: % "Free" Oil: % Coated: H % /M_100% /L %
	Fresh Mousse
	Drift Debris Oiled ? Yes No Supra/Upper/Mid/Lower Amount: H/M/L/
	Comments:
	- HEADLAND AT SOUTHWEST TIP OF ISLAND
-	SMAN COVE AT FOUTHWERT SIDE HAS 20 X LO M ATTICA
	OF MODERATELY OILED BOULDERS, OTHERWISE LIGHT TO
	NO OIL PRESENT.

*

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LOCATION: Lone Island SITE: South Tip OBSERVER: Greg Change
LOCATION PREFIX: LN SEG. NO.: 9 LENGTH: 500 (M)
DATE: May 21/89 TIME (HIDDE): 9:30 TIDE HT.: ~ 10.0 (M)
OILED ZONE: Splash High Medium Low
SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud
LIVE BIOTA
Fugus (algae): Patchy Y/N Contin. Y/N Dense (N Sparse Y/N None Y/N
Very Thick Concentration, Extremely Lush Marine Vegetation
Very Thick Concentration, Extremely Lush Marine Vege tation Lower Intertidal NYTILUS (Mussels): Patchy Y/B) Contin. (9/N Dense(Y/N Sparse Y/O) None Y/N
Continous Mussel Band, Mid to Higher Tide Level
Balanus (Barnacles): Patchy Y/W Contin. Y/W Dense Y/W Sparse Y/W None Y/W
Definite Band At Higher Tide Reaches
Littorina Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
Sea Snails observed throughout tide range
Limpets: Patchy Y Contin. Y Dense Y/ Sparse Y/W None Y/N
None observed but fucus is so thick they may have been present
faces, heaver roce concentration attend of segment on SW corner of island
in small gap in rock face North
CTRINTE PRESIDENCE CLASSIC COSTS STATE OF COSTS
Rest of shore is too rich in wild life and cleaning smell band of light oil would probably impact intertidal life more than present oiling. At mid or high tide and probably impact intertidal life more than present oiling. At mid or high tide only MAMMALS: Ottors Harbor Seals Sea Lions Whales
would probably impact intertidal life more than present oiling. At mid or high tide
MAMMALS: Otters Harbor Seals See Lions Whales
BIRDS: None Observed
GENERAL OBSERVATIONS: Very rich intertidal area, Thick schools of
3 to 5 cm fish off shore

Date 5-21-81 Location Lowe Island site
Location Prefix LN segment # 9 Length 500 m.
Survey Method:
Air (A - indicate on map) Boat X (A - indicate on ma
Ground (G - indicate on map)
Known cultural resources (AHRS #) Data Source
Oil conditions/beach visibility Very light oil cover
Width of beach zone surveyed No beach m Tree fringe surveyed 1-15 m.
Cultural resources observed in beach zone (AHRS code) None
Cultural resources observed in tree fringe (AHRS code) NONE
General observations justifying survey method and segment's site probability
Shore Profile very steep rock wall all along shore
Fresh Water Sources NO Streams, Fresh 420 Seeps
Sea Exposure Open to South
Access/Safety No landing on shore.
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) ANDREFSKY
Time survey started 7:30 Am Time survey ended 7:50 AM
Cultural resource considerations/restraints:
IF heretofore cultural resources are discovered during
cleanup contact Exxon Archaeologist Chuck Mobley immediately.



SHORELINE CLEANUP PROGRAM

DATE	5/	24/9		SHORELINE SEGMENT LN-10
LOCA	rion:	(see	enclosed map)	Lone Island, Southwest
ADEC	NO		SHORELINE AS:	SESSMENT DATE: 5/21/89
Recor	nmend	ed Cl	eanup Activity(ie:	s):
	with	warm		oris on small beach. Flood/flush o to 140°F) on beach at south end
Prior	rities	s Cons	siderations:	
			low oil resources absent	
activ Avoid	ities	to bactin	the oiled beach a g rocky headlan	te survey): Restrict cleanup and at the south end of the segment. nds with rich intertidal life adlands appear to be oil free.
<u>Acces</u> be <u>re</u> uncov Direc	s to strice ered tor	histoted. duri	If heretofore un ng cleanup, cont take actions	site survey): in southern 1/5 of segment should indiscovered cultural materials are cact Exxon's Archeological Field prescribed in the Operational or dated 4/21/89 as amended.
State	harle	oric	Preservation Offi	Date: May 24, 1987
EXXON	:	A		Date: May 26/85
FOSC:	La	vil.	10000011	Date: 5/1-/77

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

5/21/89 SHORELINE OIL EVALUATION
Date: Time: 10:07 Observer: Rick Gille
Surveyed From: Foot Boat/Helio/Plane Weather: Sun/Cloud Rain/Snow/Fo
LOCATION
LOCATION LONE ISLAND SEGMENT NUMBER LN-10
LOCATION LONE ISLAND SEGMENT NUMBER LN-10 LENGTH OF SHORELINE SEGMENT: QOO
ACCESS: Foot/Vehicle/Boat/Barge/Helio/Ploat Plane
SHORELINE:
Shoreline Type:SPI BEA COV HLD/STRT Slope LANG/HANG VER
Wave Exposure: High/Med/Low
Sediment: B 5 % / C _ % / P 30 % / G 30 * / S _ % / M _ % /R 5 % LOG 5 Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type Fucus
Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type Fucu S
OIL
Degree of Oiling: Heavy/Moderate/Light No Oil/Unobserved
Area of Beach Impact: SU / SP H M / L
Continuous: Y/N % of Segment Width of Band:m
Sporadic: YN % of Segment_5
Est. Oil Thickness where > 1cm:cm
Pooled Oil: % "Free" Oil: % Coated: H % /M % /L
Fresh 180 Nousse Tar Formation:%
Drift Debris Oiled ? Yes/No Supra Upper Mid/Lower Amount: H/M/L/
Comments:
-LIGHT OIL PRESENT ON SOUTH END OF LOOM LONG
BEACH CLOSEST TO LN-9.
- GTHERWISE NO DIL

LOCATION: Lone Island SITE: South west OBSERVER: Gree Chancy
LOCATION PREFIX: LN SEG. NO.: 10 LENGTH: 900 (M)
DATE: May /21 /87 TIME (HIDON): 10:30 TIDE HT.: ~ +0.5 (M)
OILED ZONE: Splash High Medium Low
SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud
LIVE BIOTA
Fucus (algae): Patchy N Contin. YN Dense YN Sparse N None Y/N
restricted to few and rocky outcrops mostly devoid of vegetation
Mytilus (Mussels): Patchy WN Contin. Y Dense Y Dense Y None Y/
restricted to few rocky outcrops, very few localized areas
Balanus (Barnacles): Patchy /N Contin. Y/D Dense Y/OSparse YN None Y/
Rarnacles at north end of section-free from oil-very hard to detach
Littorina Patchy W/N Contin. Y/N Dense Y/N Sparse W/N None Y/N
Sea Snails restricted to the few rocky head lands
Limpets: Patchy YN Contin. YN Dense Y/ Sparse Y/N None Y/N
More limpets on south end of beach on rocks, very hard to detach
OTHER OBSERVATIONS: Mostly per se gravel heach, little intertidal
of 3-4 cm fish, Chitans on rocks in large number locally
of 3-4 cm fish, Chitans on rocks in large number locally
CLEANUP PRECAUTIONS: Restrict cleanup to southern beach restrict
access from heavy vegetated rocky headlands hearby,
MAMMALS: Otters Harbor Seals Sea Lions Whales
BIRDS: 8 sea gulls on beach
of intertidal life. Very little intertidal life evident overall

Date 5-21-89 Location Lowe Island site
Location Prefix LN Segment # 10 Length 900 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 oil is very light.
Width of beach zone surveyed 20-40 m. m Tree fringe surveyed 10 m.
Cultural resources observed in beach zone (AHRS code) NONE
Cultural resources observed in tree fringe (AHRS code) CBN, HTD, FXF
General observations justifying survey method and segment's site probability:
shore Profile Gentle slope with some areas of jutting rock
Fresh Water Sources Small Stream & Seeps
Sea Exposure Open to west
Access/Safety Good Access
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 # WA-1 Frames 10, 11, 12, 13, 14, 15, 16
B/W Roll # Frames
Observer(s) ANDREFSKY
Time survey started 7:50 AM Time survey ended 11:45 AM
Cultural resource considerations/restraints:
If Cleanup occurs work crews should Avoid the fox trap site and THE CABIN
site. If heartofone cultural resources are discovered during cleanup contact
Erron anchaeologist CHUCK MOBLEY Immediately.

11111 21 1989 TEAM 5 LN 8 to LN 12 Surveyed May 211 LNZ 9:00AM - 4:00 PM 400ft North LN4 LN5 X 580ft 2 Raven Seal Haulout Approx. 31/2 = 1 mile Sketch Map Compiled by LNZ LNIO Greg Chaney May 21' 1989 Base Map USGS Quads Seward (C-3) & Seward (C-2) Based on Aerial Photography LONE POINT Flown 1950, with updates from 1983 Aerial Photography

SHORELINE CLEANUP PROGRAM

DATE 5/24/89		SHORE	Line segmen	NTLN-11
LOCATION: (see en	closed map)	Lone Isl	and. West	side
ADEC NO	_shoreline As	SESSMENT [OATE:	5/21/89
Recommended Clean	up Activity(ie	ıs):		
No cleanup r	ecommended. N	o oil pres	sent.	
Priorities Consid	erations:			
None.				
Ecological Constra	aints (from si	te survey)	:	
Intertidal recommended.	life healthy	and oil	l free.	No cleanup
Archeological Cons If no cleanup act resource constrai:	ivity is plar	ned in th		. no cultural
Charle Ex	// Ome servation off		Date: 🔎	Hay 24, 1989
EXXON:	·		Date:_	Hay 24, 1989 Hay 26/89
rosc: Advit	uiroffin"		Date:_	5/17/19

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

SHORELINE OIL EVALUATION

Date: 5/21/89 Time: 10:50 Observer: RICK MLLIE
Surveyed From: Foot Boat/Melio/Plane Weather: Sun/Cloud/Rain/Snow/Fog
LOCATION
LOCATION LONE ISLAND SEGMENT NUMBER LN-11
LOCATION LONE ISLAND SEGMENT NUMBER LN-11 LENGTH OF SHORELINE SEGMENT: 3,000 m
ACCESS: Foot/Vehicle/Boat/Barge/Melio/Float Plane
SHORELINE:
Shoreline Type:SPI BEA COV HLD STRT Slope: LANG HANG VER
Wave Exposure: High Med Low
Sediment: B20 / C10 / P10 / G_ * / S_ * / M_ * /R60 *
Drift Debris on Beach: Yes No Supra Upper Mid/Lower Type FUCI-S
OIL
Degree of Oiling: Heavy/Moderate/Light/No Oil/Unobserved
Area of Beach Impact: SU / SP / H / M / L
Continuous: Y/N % of Segment 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:
-NO OIL OJ SWEGACE OR AT DEPTH IN BEKEITES
-NO OL ON ROCKS:

LOCATION: Lone Island SITE: Western Shore OBSERVER: Grey Change
LOCATION PREFIX: LV SEG. NO.: / LENGTH: 3000 (M)
DATE: May 121 187 TIME (HEDGE): MAN-2pm TIDE HT.: ~ + 2.5 (M)
OILED ZONE: Splash High Medium Low - Nowe
SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud
LIVE BIOTA
Fugus (algae): Patchy ON contin. Y Dense ON Sparse ON None Y/N the few Dense Patches of Fucus on Frocky out crops
Mytilus (Mussels): Patchy (N Contin. Y Dense (N Sparse (N None Y/1
Continous band of mustels on the few rocky outerops
Balanus (Barnacles): Patchy 1/N Contin. Y/D Dense ON Sparse 0/N None Y/N
Continous bands of bounacles above mussels on the four rocky
Patchy YN Contin. Y/ Dense Y/N Sparse C/N None Y/N
Sea smails associated with rocky outerops
Limpets: Patchy ()N Contin. Y/N Dense Y/N Sparse (Y/N None Y/N
Limpete observed in regions with barnacles, all dected healthy
OTHER OBSERVATIONS: Western side of Lone Island, is made up of
rocky head lands and beaches AMMING
CLEANUP PRECAUTIONS: No clean up recommended due to lack of
oiling
MAMMALS: Otters Harbor Seals Sea Lions Whales
BIRDS: 10 Pigeon Guillemonts, Harlequine Ducks, 3 lesser Yellow Legs
GENERAL OBSERVATIONS: White flakes found at high tide line.
These flakes are soap like in texture

Date 5-21-89 Location Love Island site
Location Prefix LN Segment # 11 Length 3000 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 No oil on beach
Width of beach zone surveyed 10-30 m Tree fringe surveyed 10 m
Cultural resources observed in beach zone (AHRS code) NONE
Cultural resources observed in tree fringe (AHRS code) None
General observations justifying survey method and segment's site probability:
Shore Profile Variable possile from flat beaches to Strep Rock walls.
Fresh Water Sources Some Small Streams and Seeps
Sea Exposure Open to West
Access/Safety Access is good.
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) Anokersky
Time survey started 1:00 PM Time survey ended 3:15 PM
Cultural resource considerations/restraints:
IF heretofore cultural resources are discovered during cleanup
contact Exxon archaeologist Chuck Mobley immediately.
<u> </u>

1111 21 1989 * TEAM 5 LN 8 to LN 12 Surveyed May 211 LNZ 9:00AM - 4:00 PM 400f+ LN4 LN5 X 580ff Raven Seal Haulout Approx. 31/2 = 1 mile Sketch Map Compiled by LNZ LNIO Greg Chaney May 21 1989 Base Map USGS Quads Seward (C-3) & Seward (C-2) Based on Aerial Photography LONE POINT Flown 1950, with updates from 1983 Aerial Photography

SHORELINE CLEANUP PROGRAM

of high pressure hot water (up to 140°F) with sorbant material to recover oil may be appropriate. Priorities Considerations: Class 4: low oil Class B: resources absent Ecological Constraints (from site survey): Avoid use of high pressure on live species. Eagle's nest present near northern end of segment. Avoid disturbance of eagles. Archeological Constraints (from site survey): Access to historic structures in southern 1/4 of segment should be restricted. If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon's Archeological Field Director and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended. Date: May 24,087	DATE 5/24/89	SHORELINE SEG	MENT LN-12
Oil is sporadic. Flooding/flushing may be ineffective. Use of high pressure hot water (up to 140°F) with sorbant material to recover oil may be appropriate. Priorities Considerations: Class 4: low oil Class B: resources absent Ecological Constraints (from site survey): Avoid use of high pressure on live species. Eagle's nest present near northern end of segment. Avoid disturbance of eagles. Archeological Constraints (from site survey): Access to historic structures in southern 1/4 of segment should be restricted. If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon's Archeological Field Director and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended. Date: May 24,088	LOCATION: (see enclose	d map) Lone Island, No	orthwest side
Oil is sporadic. Flooding/flushing may be ineffective. Use of high pressure hot water (up to 140°F) with sorbant material to recover oil may be appropriate. Priorities Considerations: Class 4: low oil Class B: resources absent Ecological Constraints (from site survey): Avoid use of high pressure on live species. Eagle's nest present near northern end of segment. Avoid disturbance of eagles. Archeological Constraints (from site survey): Access to historic structures in southern 1/4 of segment should be restricted. If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon's Archeological Field Director and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended. Date: May 24,089	ADEC NOSHO	RELINE ASSESSMENT DATE:	5/21/89
Priorities Considerations: Class 4: low oil Class B: resources absent Ecological Constraints (from site survey): Avoid use of high pressure on live species. Eagle's nest present near northern end of segment. Avoid disturbance of eagles. Archeological Constraints (from site survey): Access to historic structures in southern 1/4 of segment should be restricted. If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon's Archeological Field Director and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended. Date: May 24,087	Recommended Cleanup Act	tivity(ies):	
Class 4: low oil Class B: resources absent Ecological Constraints (from site survey): Avoid use of high pressure on live species. Eagle's nest present near northern end of segment. Avoid disturbance of eagles. Archeological Constraints (from site survey): Access to historic structures in southern 1/4 of segment should be restricted. If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon's Archeological Field Director and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended. Date: May 24,087	of high pressure	hot water (up to 140°	F) with sorbant
Ecological Constraints (from site survey): Avoid use of high pressure on live species. Eagle's nest present near northern end of segment. Avoid disturbance of eagles. Archeological Constraints (from site survey): Access to historic structures in southern 1/4 of segment should be restricted. If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon's Archeological Field Director and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended. Date: May 24,089	Priorities Consideration	ons:	
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present near northern end of segment. Avoid disturbance of eagles. Archeological Constraints (from site survey): Access to historic structures in southern 1/4 of segment should be restricted. If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon's Archeological Field Director and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended. Date: May 24, 1887	Ecological Constraints	(from site survey):	
Access to historic structures in southern 1/4 of segment should be restricted. If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon's Archeological Field Director and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended. Date: May 24, 1887	present near north		
Charles 3 Home Date: May 24, 1987 State Historic Preservation Officer *	Access to historic structed. If here uncovered during clear Director and take	uctures in southern 1/4 of tofore undiscovered cultur nup, contact Exxon's Archections prescribed in	tal materials are heological Field the Operational
	Charles 3 // () State Historic Preserva	Date tion Officer *	: May 24, (88)
Date: 1/89	EXXON:	Date	1/26/89

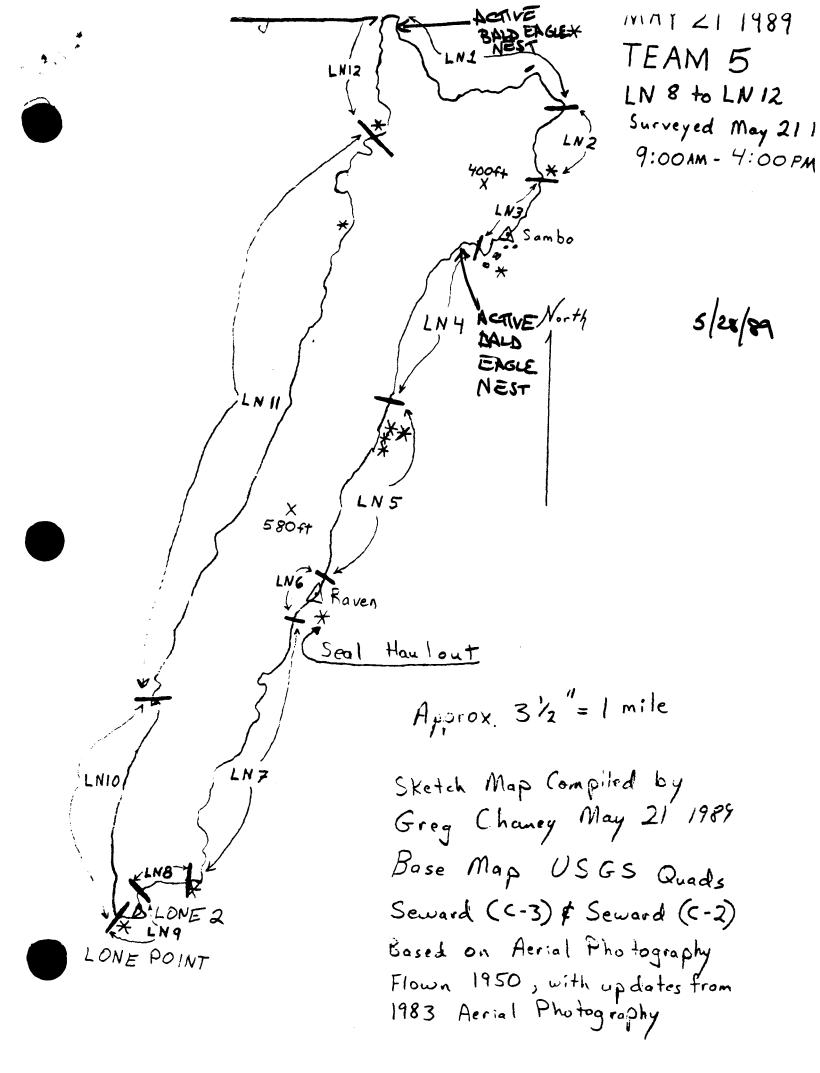
* Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands.

SHORELINE OIL EVALUATION

	Date: 5/21/87 Time: 14: 50 Observer: Rick Collie
,	Surveyed From: Foot/Boat/Helio/Plane Weather: Sun/Cloud/Rain/Snow/Fog
	LOCATION
	LOCATION LONE ISLAND SEGMENT NUMBER LN-12
	LENGTH OF SHORELINE SEGMENT: 700 m
	ACCESS: Foot/Vehicle/Boat/Harge/Helio/Float Plane
	SHORELINE:
	Shoreline Type:SPI BEAYCOV HLD STRT Slope: LANG/HANG/VER
	Wave Exposure: High Med Low
	Sediment: B3 1 / C20 1 / P201 / G_1 / S_1 / M_1 / R301
	Sediment: B3 4 / C20 4 / P204 / G_4 / S_4 / M_4 / R304 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: Y/N % of Segment Width of Band:m
	Sporadic: YN % of Segment 5
	Est. Oil Thickness where > 1cm:cm
	Pooled Oil:
	Fresh 100 t Mousse t Tar Formation: 1
	Drift Debris Oiled ? No Supra/Upper/Mid/Lower Amount: H/M/L/
	Comments:
	1) OBSERVED MINOR TAR (HARD) ON ROCK.
	2) BEACH AT SOUTH END OF SEGMENT 18 ONUT
	LIGHTLY OILED AT NOISTHEND.
	3) LIGHT DIL ON BOMBERS TO NORTHWEST TIP
	OF ILAND.

	Lone Island
*	LOCATION: LN 12 SITE: Western Side OBSERVER: Greg Chaney
•	LOCATION PREFIX: LN SEG. NO.: 12 LENGTH: 700 (M)
	LOCATION PREFIX: LN SEG. NO.: 12 LENGTH: 700 (M) DATE: $Mog/21/1997$ TIME (HHMM): $\sim 3:00$ pm TIDE HT.: $\sim +3.0$ (M)
	OILED ZONE: Splash High Medium Low
	SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud
	LIVE BIOTA
	Fucus (algae): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
	small patches of oiled Fucus at high tide line, Dense growth on headlands
	Mytilus (Mussels): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
	Continous mussel band, mid to higher tide level
	Balanus (Barnacles): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
	Band at higher tide reaches on stable rock outcrops
	Littorina Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
	Sea Snails abandant on rocks above barnacles near southern end of segment
	Limpets: Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
	Few observed
	OTHER OBSERVATIONS: Oil is spiattered in discentineur spots. Some areas
	have asphalt like patches. Rick Gillie suspects some of the oil may have
	come from an earlier spill. Un known age.
•	CLEANUP PRECAUTIONS: Oil is very patchy and discontinue. Clean up should enter
	use localized steam with sorbents under oiled rocks. Oil volume is so
	low that flushing will probably be ineffective
	MAMMALS: Otters Harbor Seals 2 Sea Lions Whales
	BIRDS: Eagle spotted sitting on northern end of island in nest, one in flight
	BIRDS: Eagle spotted sitting On northern end of island in nest, one in flight Oystor Eatcher Eagles nest must be considered when planning any
	operations. One harbor seal had a red eye.
	•

\$	(version of 4/29/89)
•	CULTURAL RESOURCE EVALUATION
	Date 5-21-89 Location LONE ISLAND site
	Location Prefix LN Segment # 12 Length 700 m.
	Survey Method:
	Air (A - indicate on map) Boat X (A - indicate on map
	Ground (G - indicate on map)
	Known cultural resources (AHRS #) Data Source
	Oil conditions/beach visibility Light oil on beach in patches (small)
	Width of beach zone surveyed 10-30 m Tree fringe surveyed 10 m.
	Cultural resources observed in beach zone (AHRS code) Now E
	Cultural resources observed in tree fringe (AHRS code) CBN
	General observations justifying survey method and segment's site probability:
	Shore Profile Rock beach in areas to steep walled slopes
	Fresh Water Sources No Strams, Seeps
	Sea Exposure new to west
	Access/Safety good Access to small pocket beaches.
	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 # W# Frames 17-2
	B/W Roll # Frames
	Observer(s) ANDREFSKY
	Time survey started 3:15 PM Time survey ended 4:00 PM
	Cultural resource considerations/restraints:
	If cleaning in required Avoir cabin area off beach. If heretofore
	cultural personeres are discovered during cheanup contact Exxon
	archaeologist chuck Mobley immediately.



EXXXX VALDEZ

SHORELINE TREATMENT APPROVAL

SHORELINE SEGMENT NUMBE	$= \frac{1}{\sqrt{-10}}$
SHORELINE SEGMENT NAME	Some status
SUBMITTED FOR APPROVAL	<u>61</u> 1 89
COMMENTS: Monito	1. Par 2 4 c / 1
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boorbant boom telna	r Gor 3 to 5 days. Remove umulate in this Time with
asom Lena	Ne Of Palame 19/1
	UN A MOLO MALLILL

ADEC comments on the condition of this shoreline segment and action recommendation.

NO ADEC REP 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

6/1/89

XC: ADEC EXXON FSOC

EXXON VALDEZ

SHORELINE TREATMENT APPROVAL

	SHORELINE SEGMENT NUMBER	
	SHORELINE SEGMENT NAME	Island
	SUBMITTED FOR APPROVAL 6 1 89	
	COMMENTS: Monitor for 3	To 5 days D
any	youl 70.1	son surge. somone
11.0	Labsorbant boom	este in this time
2	nabsorbant boom	DDD 1911
mod	Snare	Signature of EXXON rep

ADEC comments on the condition of this shoreline segment and action recommendation.

NO ADEC REP PRESENT

Signature of ADEC rep

Coast Guard Comments and Action.

X 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.

Dignature of Coast Guard rap

6/1/89

XC: ADEC EXXON PSOC

EXCOST VALDES

SHORELINE TREATMENT APPROVAL

1 1/- 10

		SEGMENT MUNDER	The second living the second l	X		
		SEGMENT NAME		Ilalan	1	
	SUBMITTED	FOR APPROVAL	89			
	COMMENTS:	Monito	1 On 3	N ~ 1	· · · · · ·	
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lin	2 3	hat may	accum	ulotei	n Ikus.	G.
mal	o auce	laborb	ant boo	m62/52	Rolamel	9/1/
-7001	-onare.		_	Signature of	EXXON 160	

ADEC comments on the condition of this shoreline segment and action recommendation.

NO ADEC REP PRESENT

Signature of ADEC rep

Coast Guard Comments and Action.

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Mignature of Coast Guard rep

6/1/89

KC: ADEC EXXON FEOC