

EVOS GC 1552 .P75 S42 1990 v.12

[Shoreline evaluations, 1990].

IN-20 - IN-34

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SHORELINE EVALUATION

	SEGMENT ST/ IN-20 SUBDIVISION A (1 OF 1) DATE 4/23/90
	SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS: $5T-1$ All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1) Eagle nest in adjacent segment ≤ 500 M. See attached Ecological Constraint sheet for specific constraints and contacts.
	SUBDIVISION ECOLOGICAL CONSTRAINTS: Avoid any unnecessary disturbance or damage to unoiled biota and substrate.
	SHPO SIGNATURE: Moder 7-45/me DATE: 5/5/90
	OILING CATEGORIZATION:
	Wide 102m: Medium 286 m: Narrow 77 m: V.Light 0 m: No Oil 427 m Subsurface Oil Observed: Yes X No Maximum Depth 25 cm
)	RECOMMENDATIONS:
m <i>G</i>	No Treatment Recommended X Treatment Recommended X Manual Pickup X Bioremediation Tarmat Removal Oil Snares (pom poms) Absorbents (pads, rolls, etc) Spot Washing: Wands Beach Cleaner Other (see comments)
	COMMENTS: Recommended treatment includes manual removal of Acleanup
	debris (pom poms) in areas indicated on sketch map. Work should be conducted after 6/1 with approval of USFWS regarding eagle nest constraint.
	TAG COMMENTS:
)	TAG APPROVAL DATE: May 5 1990 ADEC ART WEIGHT DATE: Dat Weight FOSC: DATE: J-9-90 NOAA Cary Petrop Any 155

PWS. SEWARD AND HOMER ECOLOGICAL CONSTRAINTS

18

Salmon stream mouth - fty outmigration (\$/1 to 5/15)
Salmon stream mouth - spasning (7/10 to 8/31)
No disturbance of stream bed or banks unless authorized by ADF&G. No beach flushing into stream drainage. No bioremediation or other 18 chemical application within 100m of stream without authorization from ADF&G. No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or inipol application, prior to at least July 1 unless authorized by ADF&G. Treatment which is not intrusive and which will not affect nearshore oil or toxicity levels, such as manual removal, can probably proceed without adherence to time

constraints. In any case, contact ADF&G Habitat Division prior to treatment for consultation and/or permit application.

AGENCY CONTACT PERSON: ADF&G John Morison 267-2324

10 Salmon by nursery area. (4/31 to 7/31)

No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or inipol application, prior to July 31 unless authorized by ADF&G. Treatment which will not affect nearshore oil or toxicity levels, such as manual or mechanical removal, can probably proceed without adherence to time constraints. Contact ADF&G prior to treatment for confirmation and advice.

AGENCY CONTACT PERSON: ADF&G Larry Peltz 424-3214

10

1E 15

Eather Hatchery release (4/15 to 6/15)
Main Bay Hatchery release (4/20 to 6/15)
Sawmill Bay Hatchery release (4/15 to 6/1)
Cannary Creek Hatchery release (4/21 to 6/1) 1G

Pernote release site

No use of methods which might affect nearshore oil or toxicity levels, such as not water wash or inipol application, prior to at least July 1 unless authorized by ADF&G and/or PWS Aquaculture Association. Treatment which will not affect nearshore oil or toxicity levels, such se manual or mechanical removal, can probably proceed without adherence to time constraints. Contact ADF&G or PWS Aquaculture Association for confirmation and authorization.

AGENCY CONTACT PERSON: 1E

ADF&G Larry Peltz 424-3214

1D 1F 1G PWS Aquaculture Association John McMillan or Bruce Suzomoto 424-7511

1K

CEI not area. (5/7 to 8/31)
Purse seine area. (7/20 to 9/30)
Purse seine hook-off. (7/20 to 9/30)
Sat not altee. (5/11 to 7/29)
Contact ADF&G for specific dates, locations and constraints. Restrict boat and air traffic to essential minimum. When set net sites are present (1L) restrict beach operations to essential minimum as authorized by ADF&G. If plans for treatment include methods such as hot water wash or inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization.

AGENCY CONTACT PERSON: ADF&G James Brady 424-3212

24

Herring apasening. (4/1 to 6/15).
Contact ADF&G for confirmation - dates and locations may vary. Restrict boat traffic to essential minimum. Avoid damage to unoilled intertidal and subtidal algae and seagrass. If plans for treatment include methods such as hot water wash or inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization.

AGENCY CONTACT PERSON: ADF&G Evelyn Biggs 424-3235

Harbor seel and see Son pupping (5/15 to 7/1)
Harbor seel and see Son molting (5/15 to 9/15)
Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts. No application of inipol within two weeks of arrival dates (work window at these sites is limited to 7/2 to 7/31). Contact ADF&G and USFWS prior to treatment for confirmation.

AGENCY CONTACT PERSON: US National Marine Flaheries Service Stave Zimmerman 586-7235

ADF&G Don Calkins 267-2403

SR

Seabird colony (5/1 to 9/1)
Restrict air and boat traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance from colony. Contact USFWS prior to treatment.

AGENCY CONTACT PERSON: USFWS JM Parker 786-3377

SS Shorebird/scaterfood concentration (4/1 to 5/15)

Prestrict all activity to essential minimum, especially air traffic. Contact USFWS and ADF&G for confirmation.

AGENCY CONTACT PERSON: USFWS Jill Parker 788-3377

AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
ADF&G Tom Rothy 267-2208

All Bald Eagle neets (S/1 to 6/1) **T**

Active Baid Eagle neets (5/1 to 9/1)
Restrict air traffic and all disturbence to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from neets. Contact USFWS prior to treatment for confirmation of dates. AGENCY CONTACT PERSON: USFW8 JBI Parker 786-3377

Pagrantion:

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28828

7Z 718H

Tent sites (6/1 to 9/15) Anchorages (6/1 to 9/15) Forest Service cabins (6/1 to 9/15)

Lodge (5/1 to 9/15) Special use destination

Subeletance area: Salmon hervesting (5/1 to 9/30) Findsh hervesting

Deer harvesting (8/15 to 2/25)

invertebrate harv

Contact ADF&G and appropriate Native Corporation for specific dates, locations, and constraints. Restrict boat and air traffic and beach disturbance to essential minimum. If plans for treatment include methods such as hot water wash or application of inipol which might affect Intertidal or nearshore oil or toxicity levels, contact ADF&G and appropriate Native Corporation for authorization - see Native Corporation Contact List for each Native Corporation's contact person.

AGENCY CONTACT PERSON: ADF&G Jim Fall 267-2369

HELD SHORELINE COMMENT SHEET

•	SEGMENT ST 1 IN-20 SUBDIVISION: A	_DATE 4/23/90
	NAME AEC Vandepols SIGNATURE AEC Vandepols	
	NO TREATMENT RECOMMENDED TREATMENT SUGGEST	
	NAME Michele Back SIGNATURE Man	
	OMMENTS TREATMENT SUGGESTE	
.,	Remove mousse by pits # / and #2 where po Limit access in between to mousse in between	155161e. Lg. 1.
2)	On SW side of cove, there are areas of ha	nd-size
	remove the cobble shovel away mousse to of which are anaerobic, down to clean la replace cobble, No treatment recommended on	auer ma
3)	Remark pom-poms from both sides of	the beach
	LAND MANAGER NAME_COSOLS Hubec SIGNATURE	
	☐ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED	
	Recommend manual pick up	0
•	water flowing across beach indica	tes of
•	tarmats and oily debris. Snow water flowing across beach indicates mobile by the abundant rainly he source values without tent sites be feasible on the largest pock	w sheening
-1	be leasible on the to largest pock	I beach

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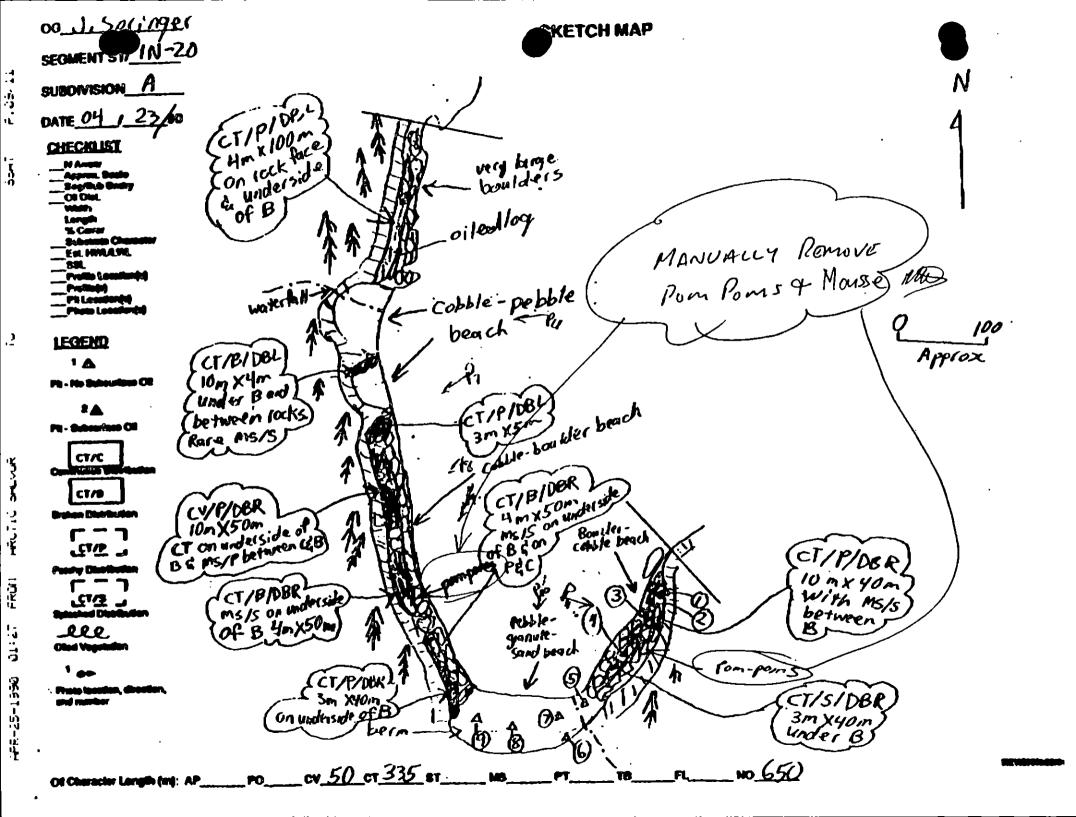
comments MS on northeast-facing (cobble-boulder) beach tos stronger petroleum northan usual but is not anaerobic.

REVIEWED MATE 4-27-10

SUBSURFACE OIL (CONTINUED)

PIT	PIT DEPTH (cm)	SUBSURFACE OIL CHARACTER					OLED BINTERVAL	BELOW		LOW OIL / FILM COLOR						Pr ZOI		•	<b>&lt;2&lt;</b>	SHEEN (YM)	Ţ	SURFACE SUBSURFAC SEDIMENT:
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COMMENTS



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	(8)	Overall	% cover	of biota	( % of se	agment	): Dens	<u> 17</u>	Modern	nte 20	Low	70	
	(C)	vertical	r, substra zonation es / adult	n of majo	rtaxa: (	upper-	U: mid-N	A, above 1; low tic	e), & fal-L);				57-5-7 0-11 overnian.
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2 Seations 2 Gull > 1 Greet Blue Heron

Wildlife Observational General Comments:

11-Ducks on the 2 200

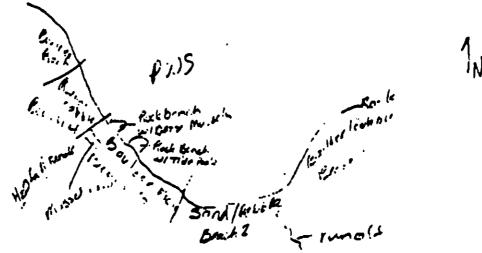
1-Bird-No ID(small) 2 Gu

3- Marked Mark Jeth 1 Gu

Ecological Considerations:

-.01.03

Segment: ST/IN20A Length: 1035 m Biologist: Crank Desc: 4/23/90 Time: 1815-2030 Tide Height: 11-1251



# General Comments

Brack !: Boulder/Cobble

- MITZ bis der i madic 80% cover wiff on tous , reco Alque, 60% in UITZ, 20% in LITZ
- Rare bornack distribution in Ultz : 1172. Im bond with moderate concentration of bornocie spat on boulders in MITZ 20% nortality (many covered with algae)
  - No Mussels observed
  - Sparse number of Nucella found in LITZ, Earn Litterine en Library.
  - 1/2 m bond with sporse concentration of First with vary sporting) in L

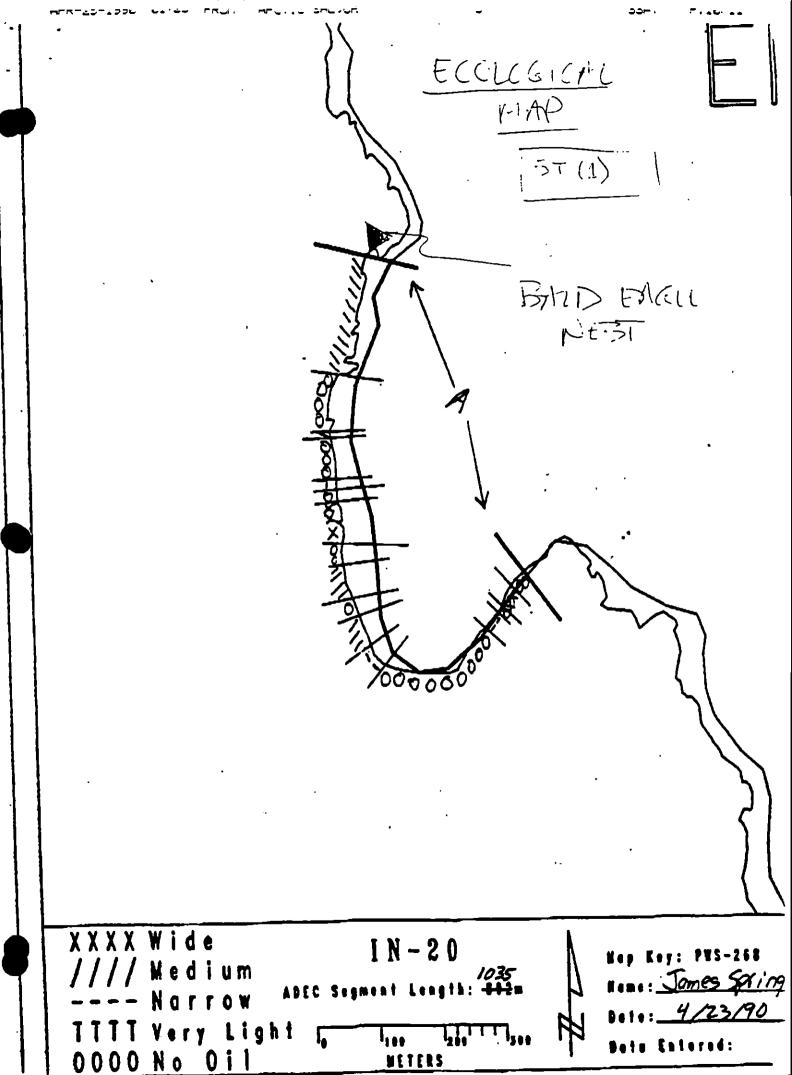
Beach 2 - Packle /Sonn Eroza with some couble

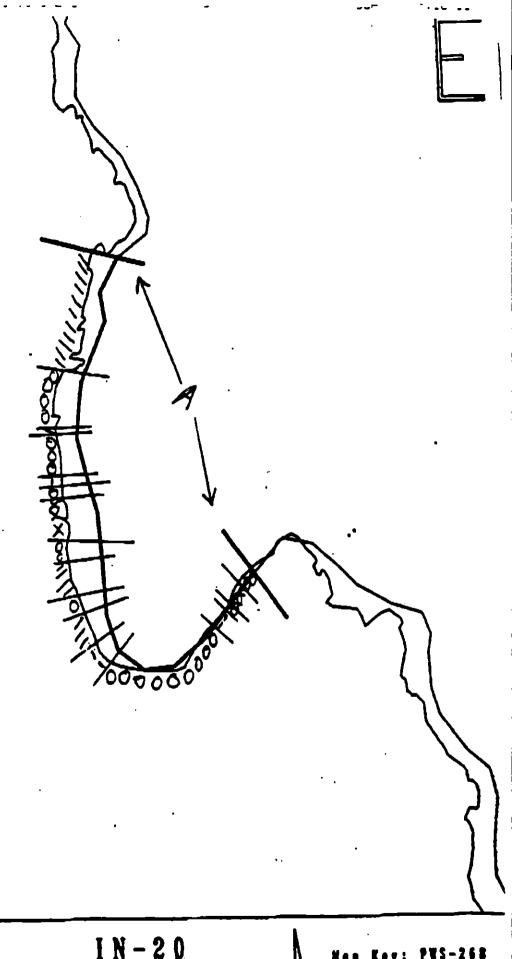
- Kuroff stream
- ינובן מיינני
- Small ( 20m lune) acquerted white worm wither cobble

Bouch 3 + Boulder Field w/cobble : 2 : rock benches

- Mus-el. new petities on earther side . Concentration moreum to form a midderate band when, the brulders. 10% - motelity on wrolled a vonte ale; 35% or oiled ausfaces,
- Barracles mode : le ode le à a part in MITZ, dense in UITZ nave in 172. 10% montalis, in unrited au facts; 20% on als u
- Fucus . There is a Im band of moderate concentration in MITZ
- -2 rock benches: emitter tending sixted tideport with chiers fine: Jauna; western but he down mused bed and a moderate concentration of Kolherine tunicata.

Beach 4: Rounded Cobbic wie few Esciers. - Boulders have rore Mussels (secrulis in creases) and rore borriagles (Hater





## ADDENDUM: SUBDIVISION CONSTRAINTS

SEGMENT IN-20 SUBDIVISION A (1 of 1)

The state of the s
WORK WINDOW
The state of the s
Property of the second
ADENIE
Bioremediation
DUIDING

## ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274

## APPLICABLE ECOLOGICAL TIME CONSTRAINTS

5T Baid Eagle Nest

NO CONSTRAINT. Baid eagle nests in adjacent Subdivision are inactive according to USFWS 6/1/90 survey map.

## OTHER ECOLOGICAL CONSIDERATIONS

Avoid any unnecessary disturbance or damage to unoiled blots and substrate.

FOSC DATE 6-10-9C

Prepared By: Ander Mayor VPP

### SHORELINE EVALUATION

SEGMENT ST/ IN-21 SUBDIVISION A (1 OF 1) DATE 4/6/90
SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:  5T-2 All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)  See attached Ecological Constraint sheet for specific constraints and contacts.
SUBDIVISION ECOLOGICAL CONSTRAINTS: Avoid any unnecessary disturbance or damage to unoiled biota and substrate.
SHPO SIGNATURE: Charles 2 Holmer DATE: 4/23/90
OILING CATEGORIZATION:
Wide 101 m: Medium 23 m: Narrow 54 m: V.Light 69 m: No Oil 1815 m Subsurface Oil Observed: Yes X No Maximum Depth 25+ cm
RECOMMENDATIONS: No Treatment RecommendedSnare/Absorbent BoomsOil Snares (pom poms)Manual PickupAbsorbents (pads,rolls,etc)X BioremediationX Spot Washing:X WandsBeach CleanerRemoval Other (see comments)
COMMENTS: Recommend 1) spot wash with pom poms, then 2) bioremediation of oiled coat, cover and subsurface oil areas as indicated on sketch map. Work should be conducted after 6/1 with approval of ADF&G and USFWS regarding eagle nest constraint.  MANUALLY TILL IN ANGA OF PITS 1+2 IF FEMILE + SPOT WASH PRIOR TO BIO
TAG COMMENTS:
TAG APPROVAL DATE: 4/21/90.  ADEC Let Waver Interior  EXXON Anoy Ten Beal FOSC: DATE: 4-27-90  NOAA Buildescott Buildward

## PWS, SEWARD AND HOMER ECOLOGICAL CONSTRAINTS

1A 1B	Salmon stream m No disturbance of	outh - fry outmigration (3/1 to 5/15) outh - spawning (7/10 to 8/31) stream bed or banks unless authorized by ADF&G. No beach flushing into stream drainage, or other chemical application within 100m of stream. Contact ADF&G Habitat Division prior ermits.
1C	Salmon fry nurser	y area. (4/31 to 7/31)
1D	Esther Hatchery re	lease (4/15 to 6/1)
18	Main Bay Hatchen	y release (4/20 to 5/10)
1 <b>F</b>	Sawmill Bay Hatch	nery release (4/15 to 6/1)
1G	Cannery Creek Ha	tichery release (4/21 to 6/1)
1H	Remote release sit	
11	Gill net area (6/7	to 8/31)
13	Purse seine area	(7/20 to 9/30)
1K	Purse seine hook-	off (7/20 to 9/30)
1L	Set net sites (6/11 For Codes 1C thro	I to 7/25) ugh 1L contact ADF&G for specific dates, locations and constraints.
2M	Herring spawning Restrict boat traffic Contact ADF&G for	(4/1 to 6/15) to essential minimum. Avoid damage to unoiled intertidal and subtidal algae and seagrass. r specific dates and locations.
3N, 3P 3O, 3Q	Harbor seal and se Restrict boat and	is lion pupping (5/15 to 7/1) is lion molting (8/15 to 9/15) air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m m vertical distance from haulouts.
5R	Seabird colony (5, Restrict air traffic to vertical distance. (	/1 to 9/1) ressential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m Contact ADF&G and USFWS prior to treatment.
5\$	Shorebird/waterfor Restrict all activity	vi concentration (4/1 to 5/15) to essential minimum, especially air traffic.
 <b>डा</b>	All Baid Eagle nest Active Baid Eagle r Restrict air traffic to and to seaward on treatment for confir	nests (3/1 to 9/1) essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from ly; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to
<b>6</b> U	Recreation:	Tent sites (6/1 to 9/15)
6V		Anchorages (6/1 to 9/15)
6W		Forest Service cabins (6/1 to 9/15)
ex		Lodge (6/1 to 9/15)
6Y		Special use destination
<b>7</b> Z	Subsistence area:	Salmon harvesting (5/1 to 9/30)
7HH		Finfish harvesting
71		Deer harvesting (8/15 to 2/28)
7.JJ		Invertebration harvesting
· <del></del>	For Codes 7Z through	gh 7JJ contact ADF&G and Chenega Corporation for specific dates, locations, and constraints.

## FIELD SHORELINE COMMENT SHEET

SEGMENT ST 1 12-21 SUBDIVISION: A (1 of 1) DATE 04-06-92
NAME AEC Vandepels SIGNATURE AEC Vandepel
☐ NO TREATMENT RECOMMENDED ☑ TREATMENT SUGGESTED COMMENTS
I suggest the 20x40 M cobble beach 140 to 180.
from the northern most end of IN-21 needs hot water wash, till + bio. The 15 x100M cobble
beach 350 to 350 M from the northern most
end of this segment needs bio.
NAME Michele face SIGNATURE Man
OMMENTS TREATMENT SUGGESTED
The northernmost beach is C,P, low energy & very a ccessible Till and bioremediate theorem, manually scrub themas and hand remove the mouse patties, on the End E.P.G.
and hand remove the mousee patties. On the End C.P.G. beach a CT of lies on the sides and under the Bo. a fresh-water runoff goes through the beach and no subsuiface of water runoff. Manual wiping of coated area would be, best
water runoff goes through the seath and the would be best was found. Manual wiping of coated area would be best the adjoining plateau requires tilling and bioremudiation to remove of removal of the 3x 15M CV/B with mousse under cobbles to 5cm in depth. I would not recommend treatment for the rest of the segment.
LAND MANAGER NAME DAN LOGAN SIGNATURE To hy
☐ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED  COMMENTS  HAND TILL THE ZMX ZOM CV/C/LBK THEN APACT FEATILIZER. HAND
WIFE THE ROCKS. THE IS MINDOM CTB BFACK SHOULD BE MANA
TILLER THEN FEATILIZER ATTLICATION. THE SMRISM SECTION SHOULP HAVE THE MOUSE REMOVED THEN HAND TILLER AND FEATILIZED.
7(

REVISION NO. 85/21/80

Wildlife Observations/ General Comments:

= 200 Pink Salmon Smalts

I Hawk Ecological Considerations:

5T-3 - Active Bald Eagle Net Did not locate

- Cobble on beaches are angular, such flore in 1172 - J-22 meners quine us downtent in MITZ sorble.

There is moderate in suitment in this aubdivisión

- Clary Indiest, class stell on book but gardioped drill Ander.

- a 10x 30 - married ind - which one

Disconistion Ealgrees bot in subtiled some able to see Sund sand college through Hel.

SEGMENT:STI IN 21 SUBDIVISION & LENGTH 2197 M BIOLOGIST Crank TOE HEIGHT +1 -> +3 ft

1 - BEDROCK 2 - BOULDER 3 - COBBLE 4 - PEBBLE 5 - SAND 6 - SILT

FLORA:

A. A. A.	Ti irra	TO A SECTION		COMMENTS
SPECIES	UIZ	MITZ	UIZ	COMMENTS
BOSSIELLACORALLINA				
CALLIARTHRON/CORALLINA				
CLADOPHORA SPP				
COSTARIA SPP	<u> </u>			
ENDOCLADIA MURICATA	_			
FILAMENTOUS GREENS		123	123	
FILAMENTOUS REDS			1	
GLOIOPELTIS FURCATA		12		
BALOSACCION GLANDIFORME		,	1	
LAMINARIA SPP		· .	25	470-14-0
LITHOTHAMNION				
NEREOCY8TIS SPP	-			
NERCOCTO IS OFF	_	123	12.3	
PORPHYRA SPP		18.3	43	
RALPHSIAHILDENBRANDIA		<b></b>		
RHODOMELA LARIX	-		23	
RHODOMENIA PALMATA			1,2,3	
SCYTOSIPHON SPP		123		
ULVA 8PP			1,2	
ZOSTERA MARINA			3	
ANTHOPLEURA SPP				
(SEMI) BALUNUS CARIOSUS		25	25	
B. GLANDULA	12.3		123	
	1,63	-	100	
BRYOZOANS	<del> </del>			
CHITONS (OTHER THAN K. TUNICATU)	-		3	Prototruca / Sax informes
CLAMS	<b></b>			
CRABS			9	Hemigrapusty
DERMASTERIAS IMBRICATA	1		r	underthe o pense 3/m2_
KATHARINA TUNICATA				
LEPTASTERIAS HEXACTIS			8	
LIMPET8	1123	123	123	
LITTORINA SPP	123	128	123	
NUCELLA SPP		23	প্র	
PAGURUS SPP		3	3	
PISASTER OCHRACEUS				
POLYCHAETES				
PYTONOPOOU HELLANTHOIDES	1			
PYTYOPUDA RELIATINODES	<del>                                     </del>		34	-
SEARLESIA DIRA		<del>  3</del>	34	
SERPULIOS	<del> </del>		<del>-</del>	
SIPHONARIA THERSITES	<b></b>			
TEALIA	<u> </u>			
Juranile Fel		<u></u>	3_	
				<u></u>
<del></del>	1	1		
	1	1	1	
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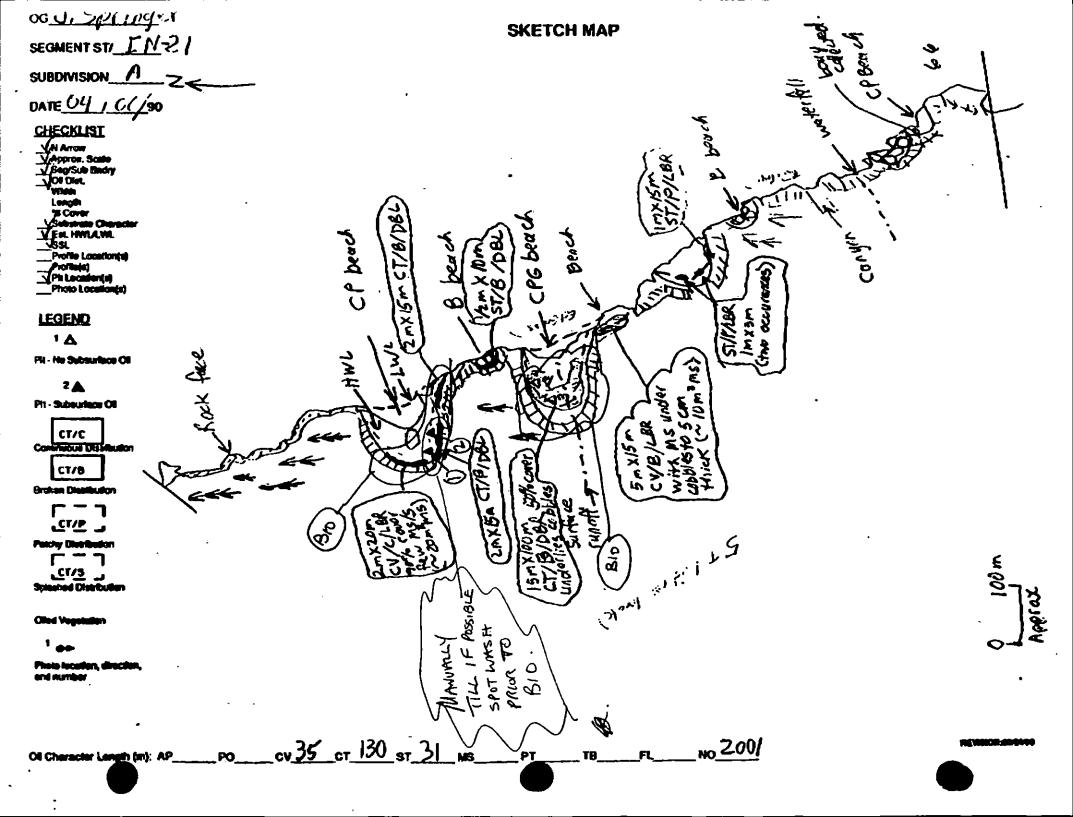
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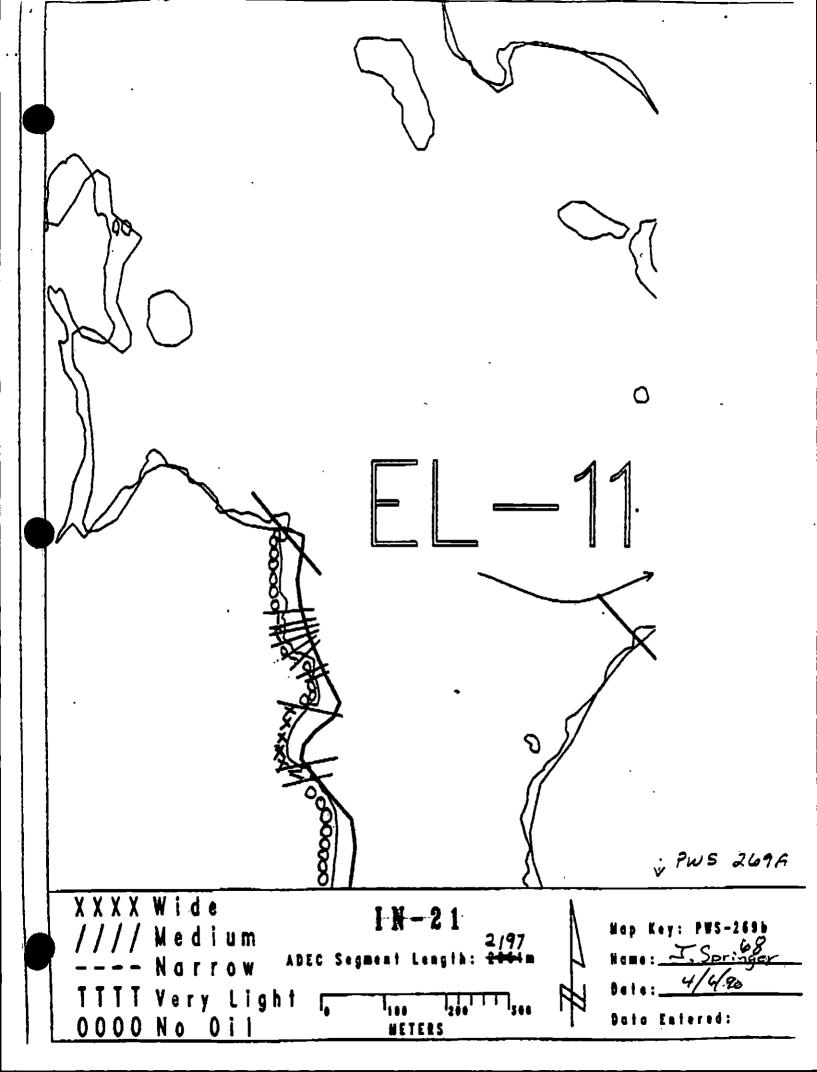
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								SI	10	3EL	.INI	E O	ILIN	1G :	SU	MM.	AR	Y					REVENCE	M MC. 06/22
BIO EXXON TEAM N EST. SU UPLANC SUBVE	O.: _ BDIVI OS DE YED F CE SE : Lan	SIO SCF ROI DIM	N L N L N L N L N L N L N L N L N L N L	ENCONTS: %	ITH I: IFOC R	1 7 C	ADE TIL 2/ Gras	CG_ND FC_DE L 97 is soat B_%	REF EVI EVI Ve	Fore	Va D. Box Helo C Z	no les	Rock W	OP W	LY NO.	Ck	SEC SUE Dudi	EME SDIV CTIO	/ISI TIM DAT P N:_XE:	ON E OC S		Ra 80	- 2 / 1 of 1 to 20: 3	25 #
SURFA			-	BUT		L	L/F					MPA ZOI	CTE NES	-	l	PAVE						<u></u>	sq. m by_	BAG
		R	4	R	A	*	×	<b>%</b>	X	1	24	ts.	*	U			_						\	_
ASPH/ PAVE										L					<b>'</b>	NEAF	1 SF	rum:	E &	HEE	N? 	(NO)	BR RW	SL TL
POOL																				MOL				
COVER		X	V				, ;		[	<b>/</b> /		X				DEBRIS SMI				MD	re	1		
COAT			X						X			X			]	Logs			╄	├	-	DEBRIS CO		
STAIN				X						X		X			]	Vegetation				<b> </b>	▙			
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(cm)		œ	OR	α	00	ж	]	OM-01	4	UO.	υc	外	K	×	<b>*</b>	\$	8	Ų		U	<u>l</u> ^			
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COMMENTS

$\neg \omega$	4/13/90
REVIEWED	DATE





XXXX Wide IN - 21u m 100 METERS 1200 0000 No

### ADDENDUM: SUBDIVISION CONSTRAINTS

- SEGMENT IN-21 SUBDIVISION A (1 of 1)

WORK WINDOW	
Bioremediation, Manual Tilling Spot Washing, and Other Approved Treatment Note: Then 400m From Active Nest OPEN	
Bioremediation, Manual Tilling	
Spot Washing, and Other Approved Treatment Less Than 400m From Active Nest  CLOSED	)

#### ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274

#### APPLICABLE ECOLOGICAL TIME CONSTRAINTS

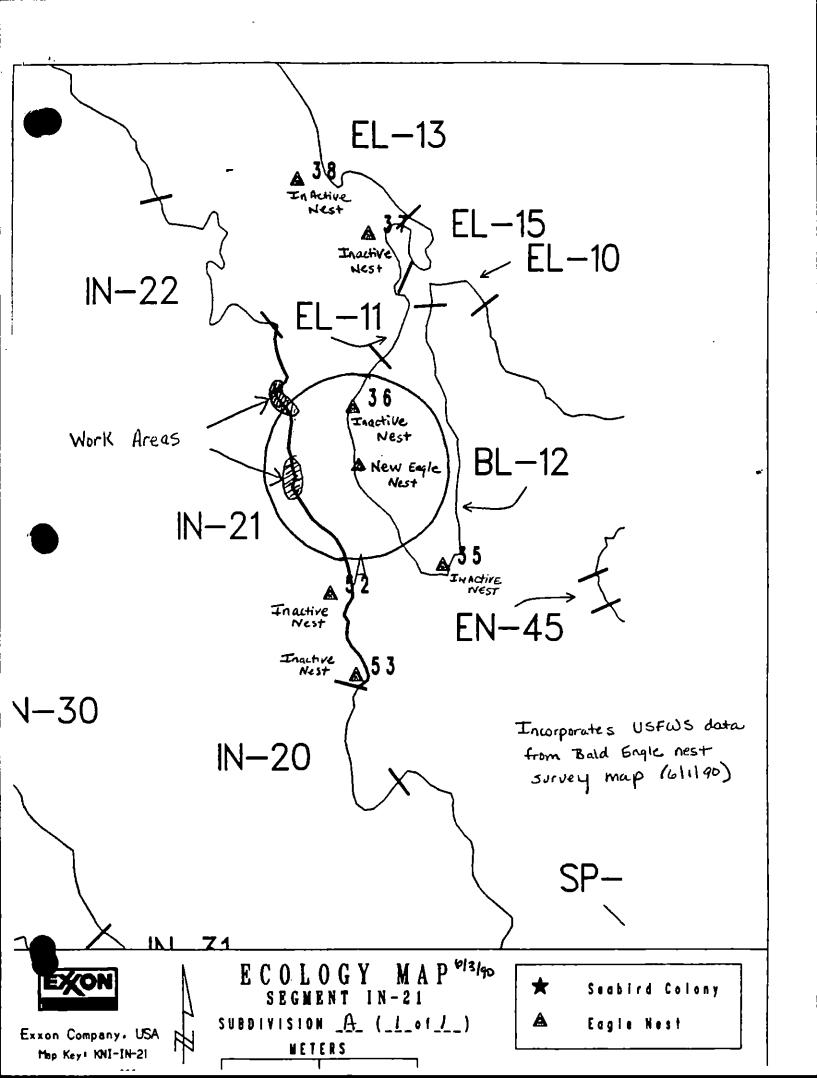
5T Bald Eagle Nest

USFWS 6/1/90 map indicates an active nest in Subdivision A. Closed to bioremediation, manual tilling, spot washing, and other approved treatment within 400m of active nest.

#### OTHER ECOLOGICAL CONSIDERATIONS

Restrict air traffic and ali disturbance to essential minimum. No personnel or boat traffic within 400m of active nests. Air approach and takeoff from and to seaward only; maintain 400m horizontal, 300m vertical distance from active nests. Avoid any unnecessary disturbance or damage to unoiled blota and substrate.

	FOSC_	h	1-6	DATE	6-10-90
Prepared By:		Date	6/8/90		<b>-</b> ,



#### SHORELINE EVALUATION

SEGMENT ST/ IN-22 SUBDIVISION A (1 OF 1) DATE 4/8/90
SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS: 6U Recreation: Tent sites (6/1 to 9/15) See attached Ecological Constraint sheet for specific constraints and contacts.
SUBDIVISION ECOLOGICAL CONSTRAINTS: Avoid any unnecessary disturbance or damage to unoiled biota and substrate.
SHPO SIGNATURE: J. Line M. Molan DATE: 4/23/90
OILING CATEGORIZATION:
Wide 55 m: Medium 205 m: Narrow 302 m: V.Light 536 m: No Oil 366 m Subsurface Oil Observed: Yes X No Maximum Depth 27 cm
RECOMMENDATIONS:
No Treatment Recommended  X Treatment Recommended X Oil Snares (pom poms) X Manual Pickup Absorbents (pads,rolls,etc) X Bioremediation X Tarmat: Breakup X Removal Other (see comments)
COMMENTS: Recommended treatment includes 1) blotting up mobile oil with snares, 2) Bioremediation of areas shown on sketch map, and 3) removal of tarmats in areas shown on map. No specific ecological time constraints identified. Lagoon portion of segment will be surveyed in Phase II.
TAG COMMENTS:
TAG APPROVAL DATE: 4/23/90.  ADEC ACT WELLES FOSC: DATE: 4-17-96  NOAA JOSOP TELLOS FOSC: DATE: 4-17-96  USCG Kenneth Kenne for

## PWS, SEWARD AND HOMER ECOLOGICAL CONSTRAINTS

1A 1B	Salmon stream m No disturbance of	couth - fry outmigration (3/1 to 5/15) couth - spewning (7/10 to 8/31) stream bed or banks unless authorized by ADF&G. No beach flushing into stream drainage, n or other chemical application within 100m of stream. Contact ADF&G Habitat Division prior ermits.
1C	Selmon fry nurser	y area. (4/31 to 7/31)
1D -	Esther Hatchery n	nièsse (4/15 to 6/1)
1E	Mein Bay Hatcher	y release (4/20 to 5/10)
1F	Sawmill Bay Hatch	hery release (4/15 to 6/1)
1 <b>G</b>	Cannery Creek Hi	dichery release (4/21 to 6/1)
1H	Parnote release si	<b>10</b>
11	Gill net area (6/7	to 8/31)
1 <b>J</b>	Purse seine area	(7/20 to 9/30)
1K	Purse seine hook-	off (7/20 to 9/30)
1L	Set net sites (6/1 For Codes 1C thro	1 to 7/25)  ough 1L contact ADF&G for specific dates, locations and constraints.
2M	Herring spawning Restrict boat traffic Contact ADF&G fo	(4/1 to 6/15): to essential minimum. Avoid damage to unoiled intertidal and subtidal algae and seagrass. It specific dates and locations.
3N, 3P 3O, 3Q	Herbor seal and se Restrict boat and	na lion pupping (5/15 to 7/1) na lion molting (8/15 to 9/15) air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m m vertical distance from haulouts.
<b>5R</b>	Seabird colony (5 Restrict air traffic to vertical distance.	/1 to 9/1) essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m Contact ADF&G and USFWS prior to treatment.
<b>5</b> S	Shorebird/waterfor Restrict all activity	el concentration (4/1 to 5/15) to essential minimum, especially air traffic.
<b>গ</b>	All Baid Engle ness Active Baid Engle : Restrict air traffic to and to seaward on treatment for confi	nests (3/1 to 9/1)  pessential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from sly; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to
<b>∕</b> 6U	Recrestion:	Tent sites (6/1 to 9/15)
6V		Anchorages (5/1 to 9/15)
6W		Forest Service cabins (6/1 to 9/15)
6X		Lodge (6/1 to 9/15)
64		Special use destination
7 <b>Z</b>	Subsistence area;	Saimon harvesting (5/1 to 9/30)
7 <del>111</del> 1		Finfish harvesting
71		Deer harvesting (8/15 to 2/25)
<b>7.U</b>	For Codes 7Z through	invertabrate harvesting gh 7JJ contact ADF&G and Chenega Corporation for specific dates, locations, and constraints.

# FIELD SHORELINE COMMENT SHEET

DRAFT	
MENT ST / IN - 22 SUBDIVISION: 4 DATE 4- 9- 90	
NAME OWOZ S. N.C. MAHO SIGNATURE	
T NO TREATMENT RECOMMENDED TREATMENT SUGGESTED	,
COMMENTS  1. Recommend heartment of for prediction of back \$43, 449  1. Recommend heartment of free wide area  1. possibally also at p.5 1+2.  1. possibally also at p.5 1+2.	
2. MAPC recommend sionedaminism of I netwirde acen geterding from the stream through and grown which mayor  3. Map C reflects the ANADromous skew which mayor	
I MAP C PAFELTS Transment.  May not allow fractment.	
ADEC GRES WINTER SIGNATURE & GLES	
NO TREATMENT RECOMMENDED TREATMENT SUGGESTED	
MAP A: ARE A OF POWER ON AMONG BUILDERS SHOWS BE MANUALLY REMAND (ON SEAR W/ PITS 4-4) THE SAME BRACE HOS PENETRATION TO 18 CM IN THE MID TO WHELE TZ OUT SATERATED SEA. REMOVEL SAME AND REPLACE THIS BAND.	
THE BEACH EAST OF THE AFOR FREEH HAS OIL DOWN TO A PEAT LAYER IN THE OF A 3M BARA IN THE UITZ. STITCH I DON'T HAVE A RECOMMENSATION FOR THE BEACH DOE TO THE PROXIMITY OF THE PEAT LAYER TO THE OIL @ 25 CM.	
MAP B: THE AREA OF PATENT POOLED OIL SMX3M VITZ SHOULD BE MANUALLY REMINED.	
MARC: HANDER REMOVE OF ALL PORCE, ASPARET + GUER IS WARRANTED FOR THIS FINTHE AREA EXCEPT WHERE THERE ARE ONLY TARGET + STRING ON BONDERS. (SEE AMECHIOT FOR CONTINUED GOTOR NAME TOKK BENNET  SIGNATURE TRUBE BENNET	<b>6</b> -8
ADNE.  TO TREATMENT RECOMMENDED TREATMENT SUGGESTED	
COMMENTS Treatment suggested in the following areas: focked beach beduen pits now 304, extend to pital - near pit 1 manual removal & sicrepted would be adequate - near to pital - near pit 1 manual removal it works on subsurface only recommend removal pits 3x4 sio would be sufficiently it works on subsurface only recommend of oil by Sio fifth works on subsurface) or other treatment recommend of oil by Sio fifth works on subsurface) or other treatment recommend of oil by Sio fifth works on subsurface) or other treatment recommendations.	. 4
pts 3+4 Sio would'te sufficiential it works on subsurface oil; recommend oil by Sio [if it works on subsurface) or other treatment necessary to remove of oil by Sio [if it works on subsurface) for sould oil in the vicienty of pits Salo (map A); no treatment recommend from portion in Map B; recommend manual champ a turnity of soulder on bands at oiling on speatch map Course more biore medication may also work in this Biclarity but may cause more harm than wood near anadromous straum in segment. Duto that resource was formation and is tend site, which do stist. Also noted then presence as well one eagles in the vicinity.	
is tent site, which do exist. Also noted deen presence as well as	

FIELD SHORELINE COMMENT SHEET
SEGMENT IN 22 SUBDIVISEN A DATE 4-9-96

ADEC

GREG WINTER

STAG VIST RECOMMENDED

THERE IS A NARROW EMBAYMENT / LAGOON THAT IS USEN
HEAVILY DILED. DUE TO THE SCUSITIVITY OF THIS AREA,
A STAG WISIT IS WARRANTED WHEN THE SUN HITS
THIS AREA - MODILE OIL ODZES FROM THE A SEDIMENTS.
THERE IS CONSIDERABLE PAVEMENT ALSO.

#### SHORELINE OILING SUMMARY

EXXON_ TEAM NO EST. SUI UPLAND SURVEY SURFAC SLOPE	S.: _ BDIV S DE ED F E SE Lan EGO!	NAU ISICI SCI ROIN DIN	EN L RIPT M: SEN' 5	ENK FION EX FS:	STH N: IFOX R_i		ADE	EC_ DE L 0 IS Soat B_S	EVE m C3-1		st lelo C_a		Rox W	O / I	SEGMENT ST/ IN-22  SUBDIVISION A (/ofi)  TIME X: 45 to //: 30  300 PART PART PRO 1 9 190  Clouds Prog Rain Snow  KING DIRECTION: Northwest to be the st 0 % G 0 % S 0 % M 0 % V 0  VAVE EXPOSURE: Low Med High N 250 m VL 3// m NO 734 m
CHARAC	TED	SKD	TRII	זענ	ON	OI	L/F	LM	COL	OR			CTE		PAVEMENT: H F S 59 sq. m by 3 c
CHARGO		R		~	A	*	<b>%</b>	%	<b>3</b>	\$	21	u		U.	PATTIES / TARBALLS < // boy BAGS
ASPHA PAVEM	ENT	X		X								X			NEAR SHORE SHEEN? (NO BR RW SL TL
POOLE	D		×	X	X						X	X			OFLED AMOUNT NOVE
	$\Box$			X								X			DEBHIS SMIMULE
COVER			X	X	X							X			Logs DEBRIS COLLECTED
COVER		- 1	~ .				$\vdash$	-					_	-	
					χ							X		ll	Vegetation ☐ YES ☑ NO
COAT	E				X							Χ.			Vegetation YES MNO Trash TYPE 6
COAT			<u> </u>		X							X			
STAIN MOUSS	s		Ŷ												Trash TYPE O
STAIN MOUSS PATTIE	s				X							×			Trash  Debris  TYPE  #BAGS  #BAGS

PIT NO.	PIT			SUR IAR			OILED INTERVAL	BEL	.OW	OF	L/FI	LM (	COL	OR.			IT ME		AN	SUBSURFACE SEDIMENTS
	(cm)	8	OR	OL.	or	110	(Oxione	80	8	%	<b>%</b>	X	Ž,	<b>3</b> 10	3	u	•	U	^	·
	70					X	-		X								X			Peb/Cob/GRAN
2	25	X	,			:	9-18		X				X			X				GAN /Peb / Cab
3	25	Х					5-15		X	人			X				X			GRAN / Pob / Cob
4	75					X	_											X		GRAP/Cab/Peb
5	30	X					23 • 27		X				X			٨				Cal/Gorm/ Sand/ Pest
6	20					K	•										X			GRAN/ Cob/ SANE

COMMENTS Priority #1

The oiling of this segment unrial considerably with the grantest concentration occurating along the seathers pontion of the segment. Along this shouline (MAP C) parameter and pools are found. There is also enterested oil in the eastern poetest beach su Map A sugment.

The logoor pontion of this segment were not scalled due to vo

## SHORELINE OILING SUMMARY (PAGE 2 of 2)

SEGMENT ST/ IN-22 SUBDIVISION A

## SUBSURFACE OIL (CONTINUED)

PIT PIT NO. DEPTH (cm)	DEPTH	SUBSURFACE OIL CHARACTER			OILED INTERVAL	BELOW		OIL/FILM COLOR					20145				AN	SUBSURFACE SEDIMENTS		
	(,	8	<b>DR</b>	α	OF.	ю	(correst)	80	UÇ	<b>%</b>	<b>%</b>	%	<b>%</b>	35%	εų	u	-	u	A	
7	20					X	-											X		Cob/ Peb/ Gem
8	25					ス	•								X					Cob/ Peb/ Gen Cob/ Peb/ GRAN
9	25					,	•									X				Cob / Pab / Gam
10	15					X	•										X			Cob/ Peb/ SAND
11	25					X	•									X				Cabl Peb
12	30					Х	•											X		Baiders / Peb/Gens
							•													
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COMMENTS

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	1 -61			
REVIEWED_		DATE		-

4

SUBDIVISION A

DATE // 8 90

#### CHECKLIST

- __N Arrow __Approx. Scale __Sep/Sub Bridge
- __ON Dist. Video
- Length % Cover
- ___Substrate Character ___Est, FRMLA.WL
- __Est Hamaya __SSL
- ___SSL
- ProMe(s)
  Pli Location(s)
- ___Pri Cocanonisi ___Priote Location(s)

## LEGENO

1 Д

Fit - No Substitutes Of

5▼

Pit - Subsurface OI

CT/C

Contract Delicutor

CT/B

Broken Otsbillution

CT/P _

Paichy Distribution

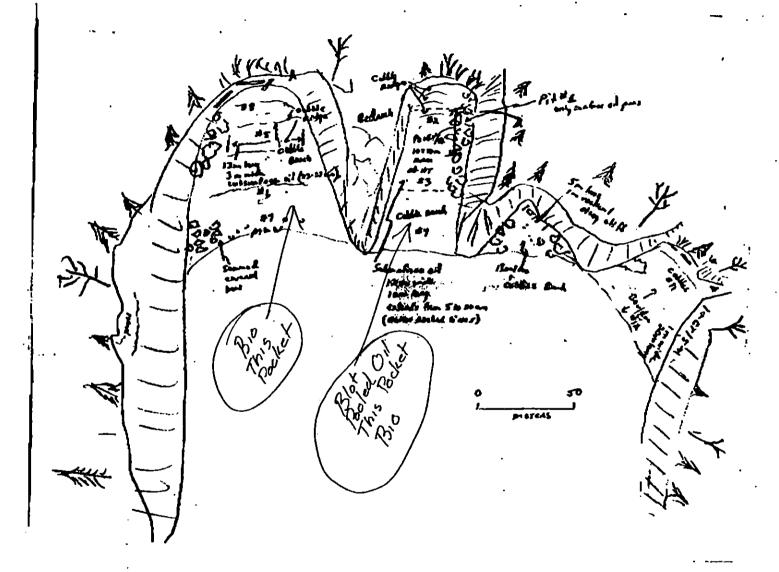
C7/5

Spleated Distribution

**Clied Vegetation** 

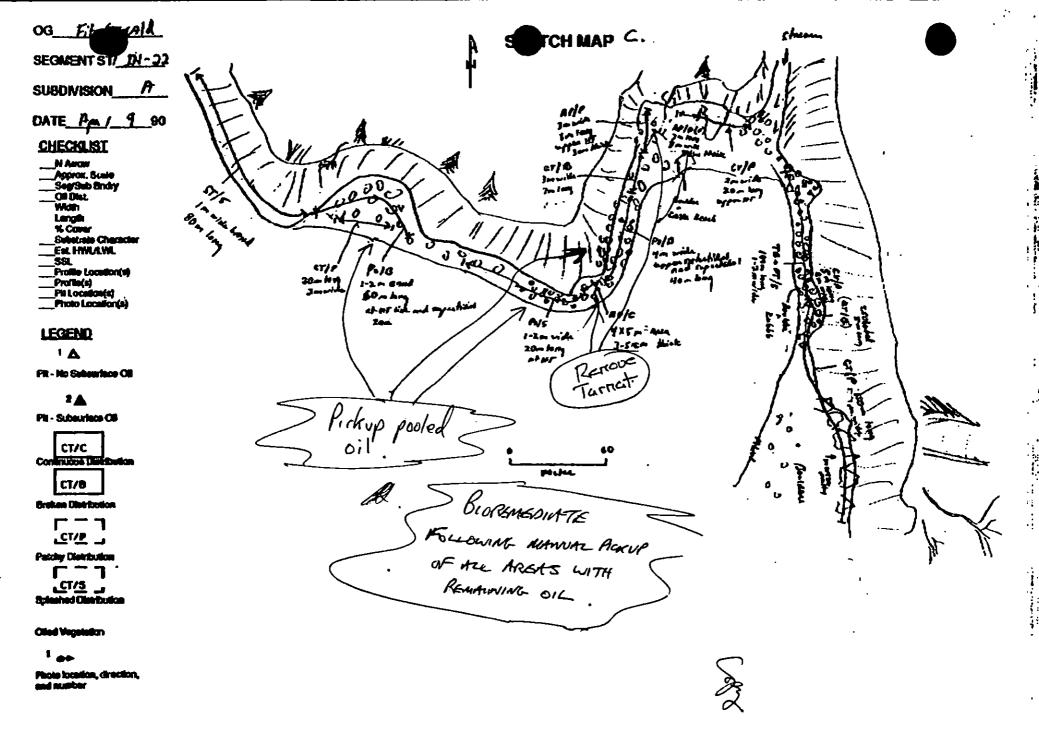
1 ...

Photo location, direction, and rection



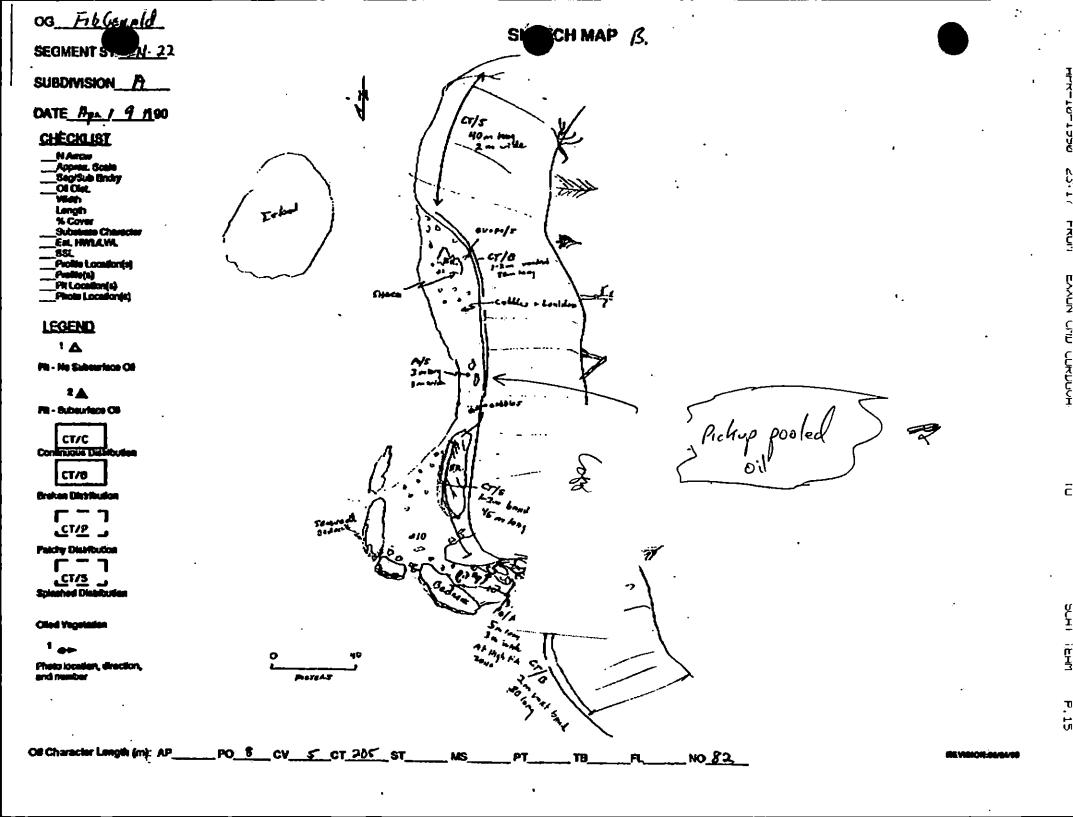
Cil Character Length (m): AP PO 5 CV 5 CT 25 ST MS PT TB FL NO 465

MENTERON ASSESSED



Oil Character Length (m): AP_17 PO 125 CV CT_182. ST_80 MB PT_50 TB_50 FL

**PRINCIPAL PARTY** 



SHORELINE ECOLOGICAL SUMMARY REVINCE MANUAL Segment ST / IN 22 Subdivision_ Date (mo / day / yr )_ Time (24 hr) 8:45 BIOLOGIST DANIEL RAIDER (A). Substrate type and % of segments: (1) Bedrock 30 (2) Boulder 40 (3) Cobble 20 (4) Pebble 10 (5) Sand (6) Sa (B) Overall % cover of blota (% of segment): Dense 30 Moderate 25 Low 35 (C) Density, substrate preference (by number from A, above ), & Photographs: vertical zonation of major taxa: ( upper-U; mid-M; low tidal-L ); Roll No. juveniles / adults (X) , new settlement (3) Frames (-35 BARNACLES Dense Moderate Sparse Rare **1M** 1M 11 1L **1M** 1L 23 2 2 2 29 2 3 3 ī NOT PRESENT 5 5 **MYTILUS** Dense Moderate Rare Sparse **P** 1L **1M** 11 **1M** 10 1L 1M 11 ٧ 234 2 23 2 23 2345 2 2 2 Ī 3 8 š **NOT PRESENT** 4 4 5 5. 5 5 5 5 5

8 BASTROPODS Dense Rare Moderate Sparse 1000 4 5 6 1M 11 **1M** 11 10 1M 11 10 1L 114 2 Ð 2 2 2 2 23 2 2 2 **\$** 3 3 3 3 3 3 **NOT PRESENT** 4 4 4 5 5 5 5 5 5 5 5 6 FUCU8 Moderate Sparee Rare (11) **1M** 11 10 1M 11 10 **1M** 

**NOT PRESENT** 

N345 **(** 2 2 2 2 2 2 2 3 2345 234 3 3 3 3 45 4 4 5 5 5

Wildlife Observations/ General Comments:

- Shore wints I duckes

- Engles (+)

**Ecological Considerations:** 

PRIORITY 3

60 61, - 9/15 . TENT SITES

•

IN-22 Yofz 8 APML 1990 18:10

A)-DENSE MUICUEI ON BEODOCK UPPL INTERTION SOME

- MOBENSE FUCUS (NEW SETTLEMENT) ON BEODOCK IN U.T.T.B

- DENSE BADDOCK IN JITE UN BEODOCK

- STACLE GASTROPODS

- ON DEDUCE (ADULT & HEN COLONS)
  - DENSE TOO PLANE
  - DENSE THOMASS IN U. T. T. B.
  - DENSE MYTICUS ON BONCOCKS IN U. I. T. T.
  - penie hem escar on
  - דייש פיונים באוריסף פון דייש ביים
  - CHITIN .
  - EEL BLENNY
- 6)- DENSE GOERN FILAMENTHIS ALGRE & EDSTEDD & DEO ALGRE
  - PEADUT WOOM
  - TANHEL CLASS
  - MODERATE RANNICLES EN BED ROCK (ADULT) IN METE

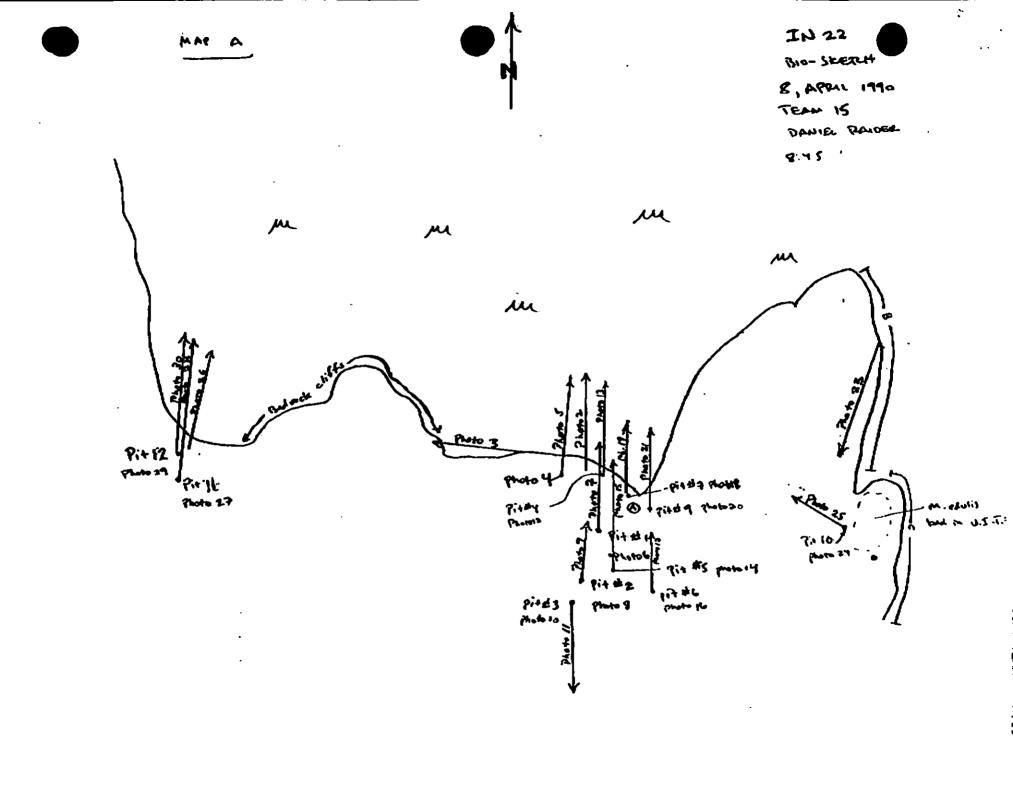
  - Dense Mytius of Beorock in U.I.T. &
  - BANACLES ON BROOKE IN UE.T.&
  - MODERATE MOULT GLASHACUES ON UNDERSIDE OF COBBLES AND BOULDERS

-Dausa Focus , Zostean win the Acque IN L. I.T. Z

- DENSE FUCUS (ADVLT & NEW) IN UPPER MID-I.T. B.

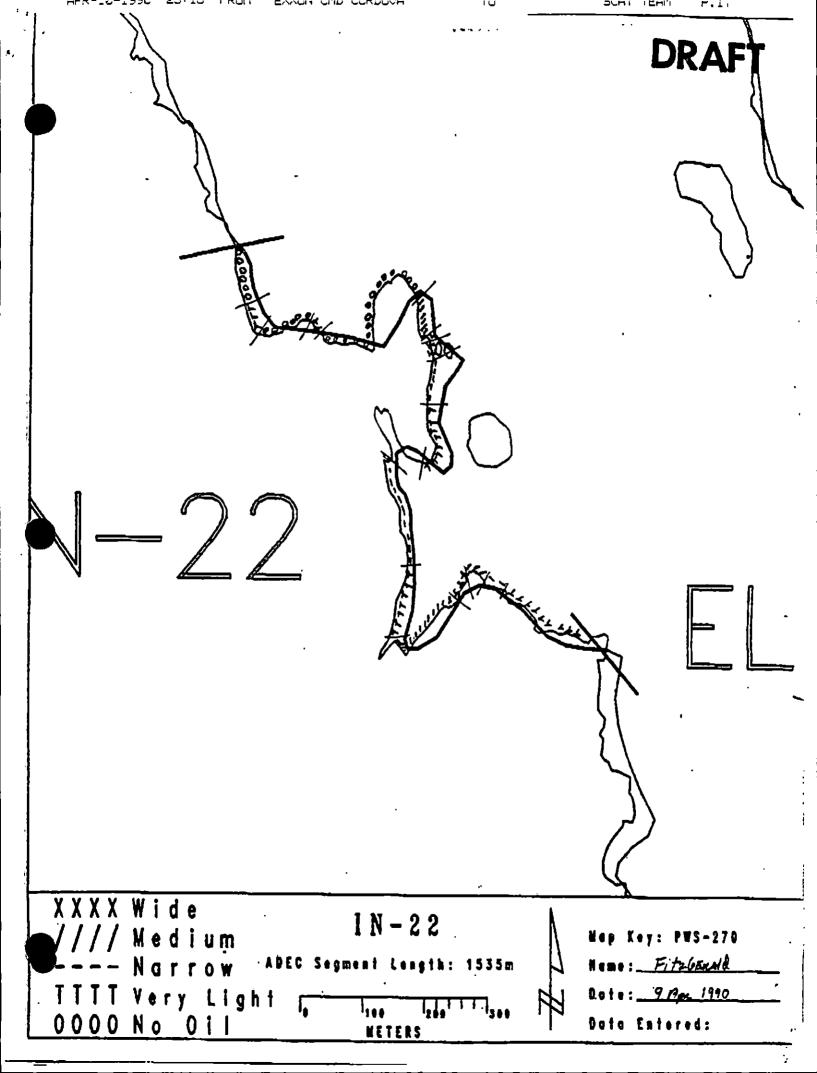
  DENSE MYTIMS EQULIS IN UMET. BONE

  DENSE BARNACIES (ADVLT) IN UPPER-MID INTERTIONS BINE
- E) DENSE FULUS IN M. I. T. T. & ON LOULDERS
  - DENSE FIXUS ON DEDNICK IN MITE + V.I.T.2
- MODERATE BANNALLES ON CORNER / GOVERNERS IN M. I.T. T. . + U. I.T. Z.
  - DENSE LITTORINA IN UPPER MID INTERTINAL PONE BOULDERS
- F) I BASE BARMACLES ON U. I.T. Z. ON BEDROCK
  - DENSE FUCUS ON PLIT.T. 2 ON BULDAN & REDNOCK
  - DENTE FULUE IN L. I.T. B. + U. I.T. T. Z.
  - DENICE FUCUS M. I.T. & . BO VLOSAL / COROLES
- (4) DENSE FICUS AND BARNALUES IN M. T.T.Z.



IN 22 9 APRIL 1990 8:45 TEAM IS 1310 SECTEH , DANIEL PAIDER

MAP B. Logica mit IN - 22ADEC Segment Length: 1535m



SEGMENT IN-22 SUBDIVISION B (2 of 3)

WO	RK WINDOW
	AK WINDOW
Manual Pickup Tarmat Removal	OPEN
Bioremediation	OPEN

#### ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274

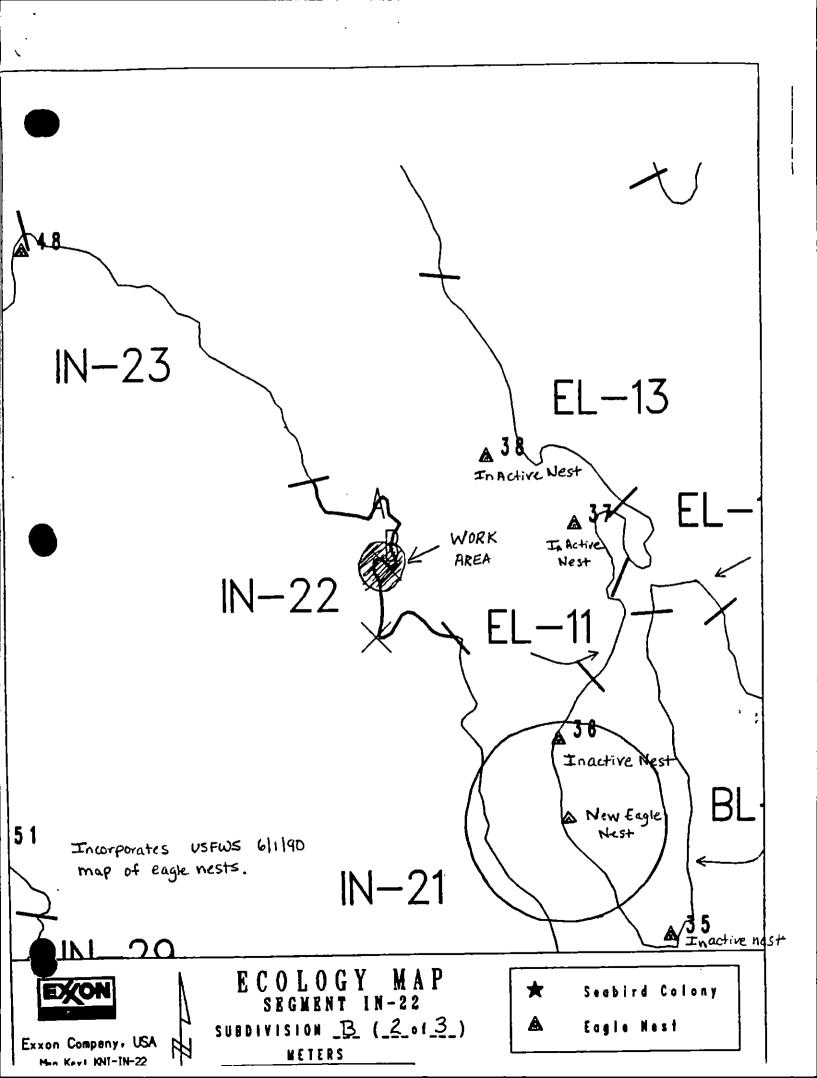
#### APPLICABLE ECOLOGICAL TIME CONSTRAINTS

No ecological time constraints.

#### OTHER ECOLOGICAL CONSIDERATIONS

Avoid any unnecessary disturbance or damage to unoiled biota and substrate. This is a "low-flush" area with well developed clam beds and an uncatalogued stream. Potential seal haul-out area: Do not chase or harass seals or sea lions, and do not approach pups under any circumstances. Do not apply bioremediation to specific areas where seals are observed to haulout. When working on or near haulouts, complete the job as quickly as possible with minimum personnel, equipment, noise and disturbance. Keep boats and personnel as far from actual haulouts as is practical to do the work specified. Minimize air traffic near haulouts, maintain elevation as is practical, and avoid repeated overflights of the same haulout areas.

TAG APPROVAL DATEADECEXXON HAWS O JAHWS ON NOAA	Pau O. poling, FOSC	1		DATE_	6-8-90
NOAA USCG	48/20				
Prepared By:	WK_	Date	47/9		_



## SHORELINE EVALUATION

	SEGMENT ST/ IN-23 SUBDIVISION A (1 OF 1) DATE 4/25/90
	SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:  5T-1 All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)  6Y Recreation: Special use destination  6U Recreation: Tent sites (6/1 to 9/15)  See attached Ecological Constraint sheet for specific constraints and contacts.
	SUBDIVISION ECOLOGICAL CONSTRAINTS:  Avoid any unnecessary disturbance or damage to unoiled biota and substrate.
	(/ 1/ // ->// )
	SHPO SIGNATURE: Mula Tolome DATE: 5/5/90
	OILING CATEGORIZATION:
)	Wide 31 m: Medium 23 m: Narrow 141 m: V.Light 852 m: No Oil 634 m Subsurface Oil Observed: Yes X No Maximum Depth 20 cm
	RECOMMENDATIONS:
	No Treatment RecommendedSnare/Absorbent Booms
	COMMENTS: Recommended treatment includes 1) removal of tarmat, 2)pick- up of debris, and 3) bioremediation of lang pocket beaches as shown on sketch map. Work should be conducted after 6/1 with USFWS approval based on eagle nest constraints.
	TAG COMMENTS: MONICOTES TO ASSESS THE OILED LOG-
	TAG APPROVAL DATE: 5/4/0.  ADEC ART WESTER DATE: 5-9-90  EXXON AND TELL BOOK FOSC: DATE: 5-9-90  NOAA Gery Petros faw Party Supplied Suppl

#### PWS. SEWARD AND HOMER ECOLOGICAL CONSTRAINTS

- Salmon stream mouth - fry outmigration (3/1 to 5/15) 18

Salmon atream mouth - spawning (7/10 to 8/31)

No disturbance of stream bed or banks unless authorized by ADF&G. No beach flushing into stream drainage. No bioremediation or other chemical application within 100m of stream without authorization from ADF&G. No use of methods which might affect nearshore oil or toxicity levels, such as not water wash or inipol application, prior to at least July 1 unless authorized by ADF&G. Treatment which is not intrusive and which will not affect nearshore oil or toxicity levels, such as manual removal, can probably proceed without adherence to time constraints. In any case, contact ADF&G Habitat Division prior to treatment for consultation and/or permit application.

AGENCY CONTACT PERSON: ADF&G John Morison 287-2324

1C Seimon by nursery area. (4/31 to 7/31)

No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or inipot application, prior to July 31 unless authorized by ADF&G. Treatment which will not affect nearshore oil or toxicity levels; such as manual or mechanical removal, can probably proceed without adherence to time constraints. Contact ADF&G prior to treatment for confirmation and advice.

AGENCY CONTACT PERSON: ADF&G Larry Poltz 424-3214

1D

Eather Hatchery release (4/15 to 6/15)
Main Bey Hatchery release (4/20 to 6/15)
Saurrall Buy Hatchery release (4/15 to 6/1) 1E

1F

Cannery Creek Histohery release (4/21 to 6/1) 1G

No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or inipol application, prior to at least July 1 unless authorized by ADF&G and/or PWS Aquaculture Association. Treatment which will not affect nearshore oil or toxicity levels, such as manual or mechanical removal, can probably proceed without adherence to time constraints. Contact ADF&G or PWS Aquaculture Association for confirmation and authorization.

ADF&G Larry Pettz 424-3214 AGENCY CONTACT PERSON: 1E

1D 1F 1G PWS Aquaculture Association John McMillan or Bruce Suzomoto 424-7511

GBI net area. (8/7 to 8/31) Purse seine area. (7/20 to 9/30) 1J

Purse seine hook-off (7/20 to 9/30) 1K

Set not alter (6/11 to 7/25)

Contact ADF&G for specific dates, locations and constraints. Restrict boat and air traffic to essential minimum. When set net sites are present (1L) restrict beach operations to essential minimum as authorized by ADF&G. If plans for treatment include methods such as hot water wash or inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization.

AGENCY CONTACT PERSON: ADF&G James Brady 424-3212

Henring epasming (4/1 to 6/15)
Contact ADF&G for confirmation - dates and locations may vary. Restrict boat traffic to essential minimum. Avoid damage to unoiled intertidal and subtidal algae and seagrass. If plans for treatment include methods such as hot water wash or inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization.

AGENCY CONTACT PERSON: ADF&G Evelyn Biggs 424-3235

Herbor seel and see ion pupping (5/15 to 7/1)
Herbor seel and see ion molting (5/15 to 9/15)
Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts. No application of inipol within two weeks of arrival dates (work window at these sites is limited to 7/2 to 7/31). Contact ADF&G and USFWS prior to treatment for confirmation.

AGENCY CONTACT PERSON: US National Marine Fisheries Service Steve Zimmerman 586-7235

ADF&G Don Calkins 267-2403

5R Seabird colony (5/1 to 9/1)

Restrict air and boat traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance from colony. Contact USFWS prior to treatment.
AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377

Shorebird/waterfowl concentration (4/1 to 5/15)

Restrict all activity to essential minimum, especially air traffic. Contact USFWS and ADF&G for confirmation.

AGENCY CONTACT PERSON: USFWS JH Perker 786-3377 ADF&G Torn Rothy 267-2208

51

All Baid Engle neets (3/1 to 6/1)
Active Baid Engle neets (3/1 to 9/1)
Restrict air traffic and all disturbance to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates. AGENCY CONTACT PERSON: USFW6 JM Parker 786-3377

Regression:

Tent sites (6/1 to 9/15)

Anchorages (6/1 to 9/15)
Forest Service cabins (6/1 to 9/15)

Lodge (5/1 to 9/15) Special use destinati

2888

Subsistance area: Salmon hervesting (5/1 to 9/30)

Firsten hervesting

Dear hervesting (5/15 to 2/25)

invertebrate harve

Contact ADF&G and appropriate Native Corporation for specific dates, locations, and constraints. Restrict boat and air traffic and beach disturbance to essential minimum. If plans for treatment include methods such as hot water wash or application of inipol which might affect intertidal or nearshore oil or toxicity levels, contact ADF&G and appropriate Native Corporation for authorization - see Native Corporation Contact List for each Native Corporation's contact person.

AGENCY CONTACT PERSON: ADF&G Jim Fall 267-2369

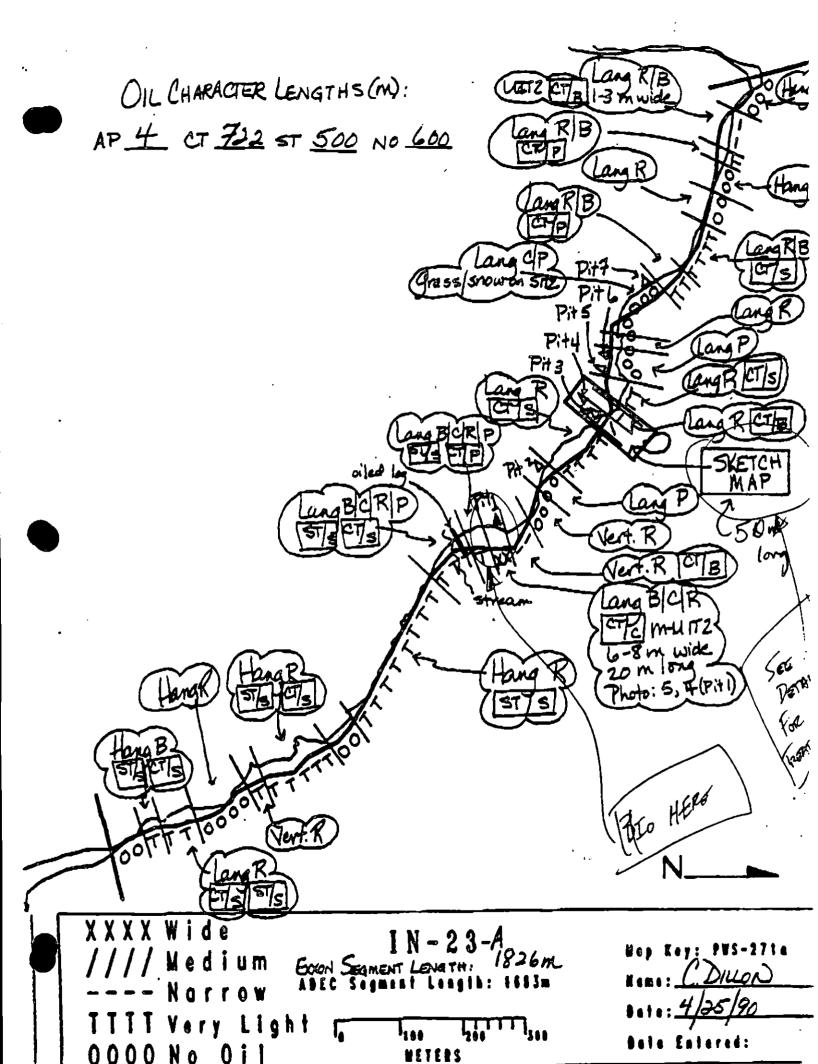
# FIELD SHORELINE COMMENT SHEET

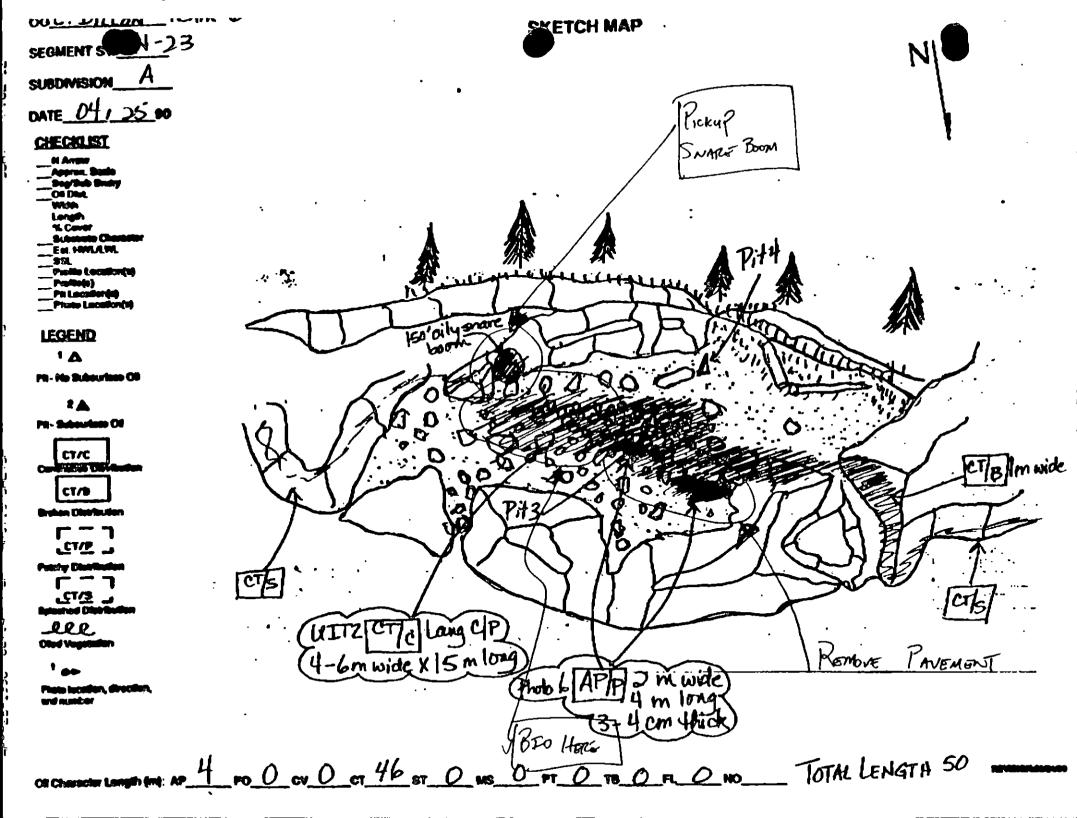
SEGMENT ST /_ IN - 23-	SUBDIVISION:	A	DATE4/25/90
USCG NAME Widian E. White	_		5 Whs
☐ NO TREATMENT RECOMMEND COMMENTS	DED TRE	EATMENT SUGG	ESTED
SHETCH MAP # 1		•	
D Bioramadiote ara	IG		
SKETCH MAP # 2  1. MANUAL PICKUP O  2. PICK UP OILED SNI  3. BIBLE RED WEE COM  4. Till surface Loyer	ree Born I		
NAME POTER MONTESANO	SIGNATURE	Eter J Mo	
would seep to Pit#2 - Easily he - Remove of ghovel us to Bior- Above comments Par	below oiled windled swareline of Ap at No emediation allel the Exxon	layer. The shovel Principle above beach of Pitchen of Pitchen Not	ior to bioremediation  73 & oiling Prior  45."
LAND MANAGER US DA- NAME DOT. Brothypt  NO TREATMENT RECOMMENTS	Forest Soru SIGNATURE	ice Dong Bei	tige
./ 15 M/A	I ha LECK	gation, the	s sires and as a
- special use destin	ation area	to some a lies	ted.
I. Area noar pit #1  If Area new pit # 3  fill surface layer and be  share boom needs to be	should note to precious, comment sho	atea. Oilar	l pom-pom L natival

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REVIEWED MI DATE 4-26-9C





	_	t ST /		Subc		A				Date	(mo / d	iay / yr )	4/25/90
_	Time ( 2	4 hr) 10	30-11	Biolo	gist	im 8	<i>arry</i>			_	Leng	UL	1826 1/
	(A)	Substra (1) Ba	te type : edrook_8	und % of 0 (2)	segmer Boulde	rts: r <u>/0</u> (	3) Cot	xble_ <u>5</u>	(4) P	'ebble <u>5</u>	(5	) Sand	<u>0 (6) SND</u>
	(B)	Overall	% cove	of biota	(% of s	egment	): Den	10 <u>60</u>	_ Moder	eto_25	_ Low_	15	
	(C)	vertical	zonatio	ate prefer n of majo (* (**X) ;	r taxa:	(upper-	نا: mid-N	A, abov A; low ti	re ), & dal-L );				<u>. 51-7</u>
	BARNA	CLES										Frames	
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	MYTILUS	_						_					
	1U 2 3 4 5	Dense 1M 2 3 4 5	1L 2 3 4 5	12/N 3 4 5 6	Oderate IM 3 4 5	1L 2 3 4 5	100 mm	300 4 5 6	<del>Aggree</del>	1U 2 3 4 5 6	Rare 1M 2 3 4 5	******	• Not present
	GASTR									/	<b>D</b>	٠.	
	1U 2 3 4 5	Dense 1M 2 7(4 5 6	1L 2 3 4 5		loderate	X 9 4 5 6	(P)3 4 5 6	SECTION 4 5 6	A	1U 2 3 4 5	Rare 1M 2 3 4 5	1L 2 3 4 5	NOT PRESENT
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	248141144	05	-Manal		Ca===								

Wildlife Observational General Comments:

BACD EAGLE - Z - I NEAT WHITE WINGED SCOTER - I SEALL PELAGIC CORMONANT - 3 Clow - 3

DER TRACKS

Herring Gull - 6

PNEN-1

**Ecological Considerations:** 

SAGLE NEST AT JUNCTION OF IN 23, FUZY - AUDID DISTURBULE OTTER HAULOUT SITE - SEE MAP .

7108 1000 - 1130

# I General Comments

a Exposure - host of signest is moderate uposene: North and has a high exposure.

## 3. HABITATS

Dunteal and thigh Angle bedrock of boulder Blooses

Broto one generally dear, during not to the the high cover of for lamentous and brotalish olgon. Fucus moderate density in general to in low to middle year. Dominant algae in the middle to low yours are like, Odonthalia, Philota, Polysiphonia?, and stopitate brown algae.

Founds - Typical of exposure gradient. Pisaster, an exposed store sea star, a abundant mean the North and of the segment, and less abundant towards the bereth. Buythers is very patchy, but geneally moderate in patches. Letterines are deman on some cotable stores, limpet are moderate to sporse and whelks are moderate to sporse and whelks are moderate to sporse, with egg cases present throughout the segment. Barnacles are often dense in the upper you, and Sembolanus is alambant (dense) mean the north and.

2) Copple and Cobble/Pebble brackes.

Beaches towards the worth end have higher cover of)

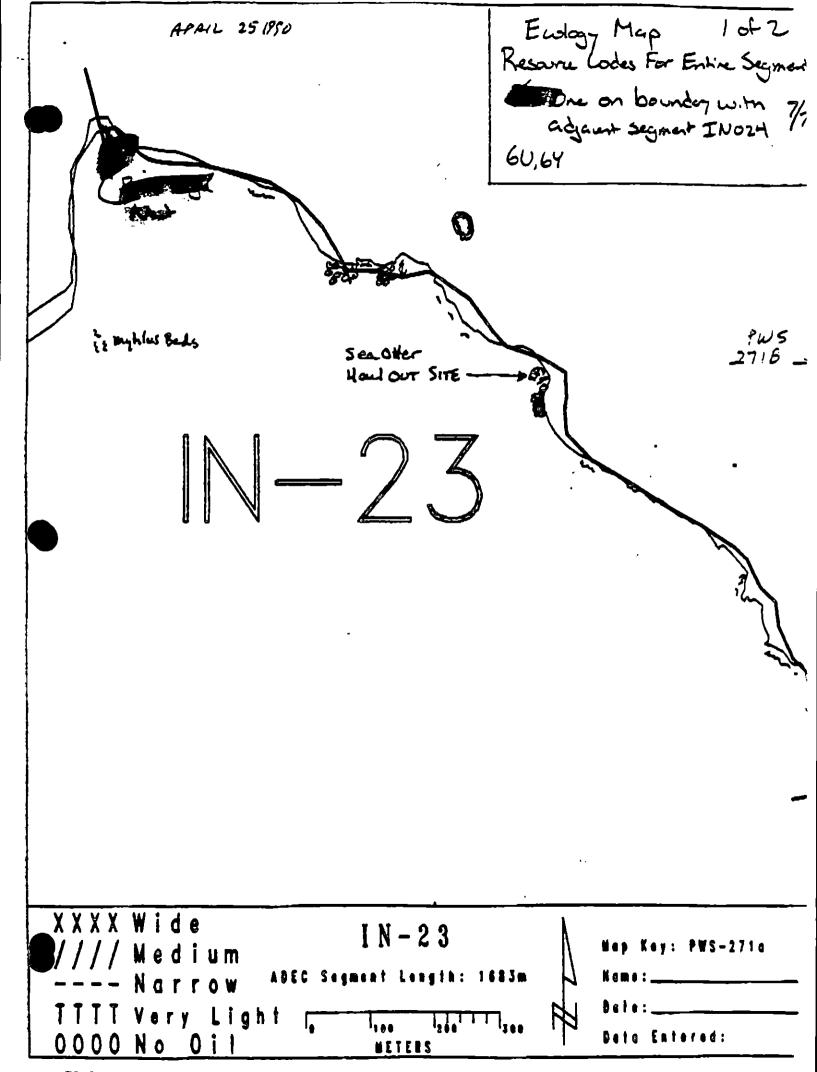
algae, and denses broth in general, then one on 2 beaches

at the north and which face frame welliam forund to the

worth. Mythus are often moderate and dense in patches

at the periphery of these beaches. Untowners are jotten dense on
large cobble and boulders: on these beaches.

- 1) Oil is light to very light thoughout the segment. Some oil a coat where mortality ( Podeed) is about 30-50%.
- 3) Sensitivities Eagle next at north end of segment. Offer braulout site on segment see map. Cleanup crews should avoid prolonged visitation near these sites.



PWS-271e

BOON SEGMENT LENGTH:
ABEC Segment Length: TTTT Very Light 0 i 1 0000 No METERS

SEGMENT IN-23 SUBDIVISION A (1 of 1)

Manual Pickup Tarmat Removal  Bioremediation  OPEN  OPEN		
	WORK WINDOW	
Bioremediation OPEN	Manual Pickup Tarmat Removal	OPEN
	Bioremediation	OPEN

## ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274

## APPLICABLE ECOLOGICAL TIME CONSTRAINTS

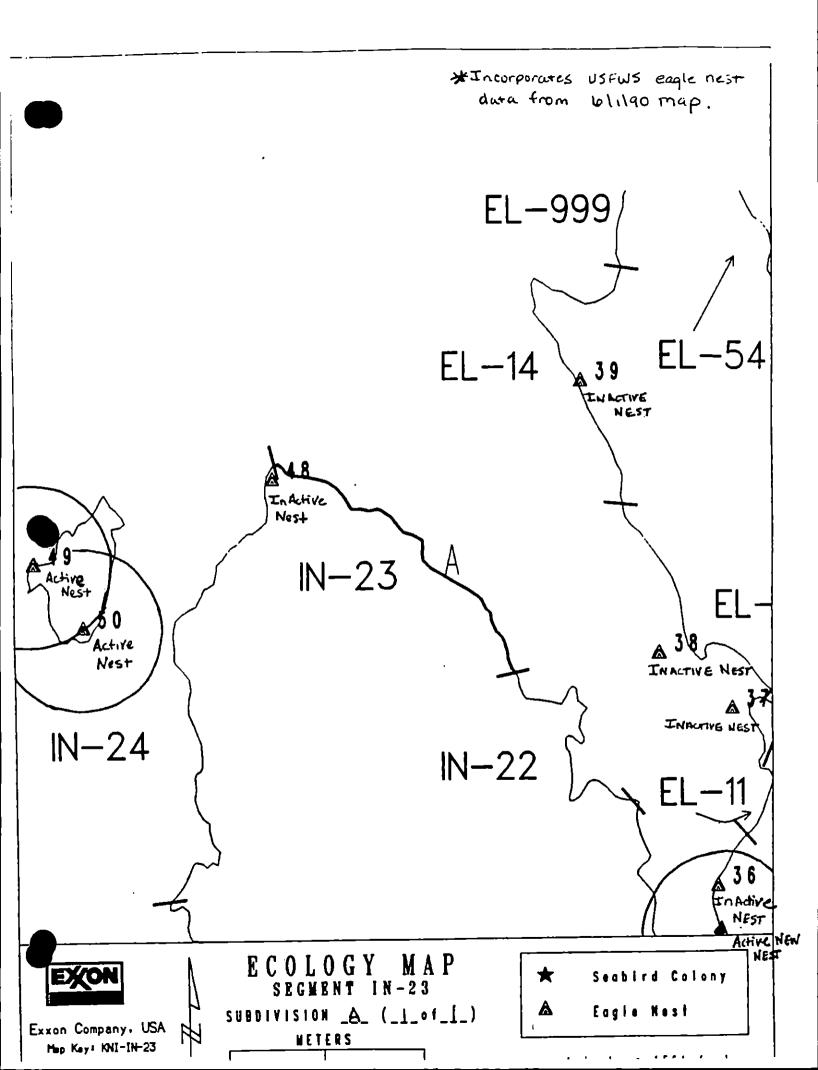
5T Bald Eagle Nest

NO CONSTRAINT. USFWS 6/1/90 map indicates no active nest within 400m of Subdivision A work site.

#### OTHER ECOLOGICAL CONSIDERATIONS

Restrict air traffic and all disturbance to essential minimum. No personnel or boat traffic within 400m of active nests. Air approach and takeoff from and to seaward only; maintain 400m horizontal, 300m vertical distance from active nests. Avoid any unnecessary disturbance or damage to unoiled biota and substrate.

TAG APPROVAL DATE  ADEC RAY MARI'S R. MARION  EXXON ANDY TERL WYKOLLY  NOAA	FOSC_	*		DATE & June 90
Prepared By: Juda Them PP	_	Date 6	5/90	



SEGMENT IN-24 SUBDIVISION B (2 of 3)

		- <del></del> -		<u> </u>
	WORK V	NINDOW		
Bioremediation	1			
		<b>~</b> 1	AP11	
Manual Raking		U	PEN	

#### ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

#### APPLICABLE ECOLOGICAL TIME CONSTRAINTS

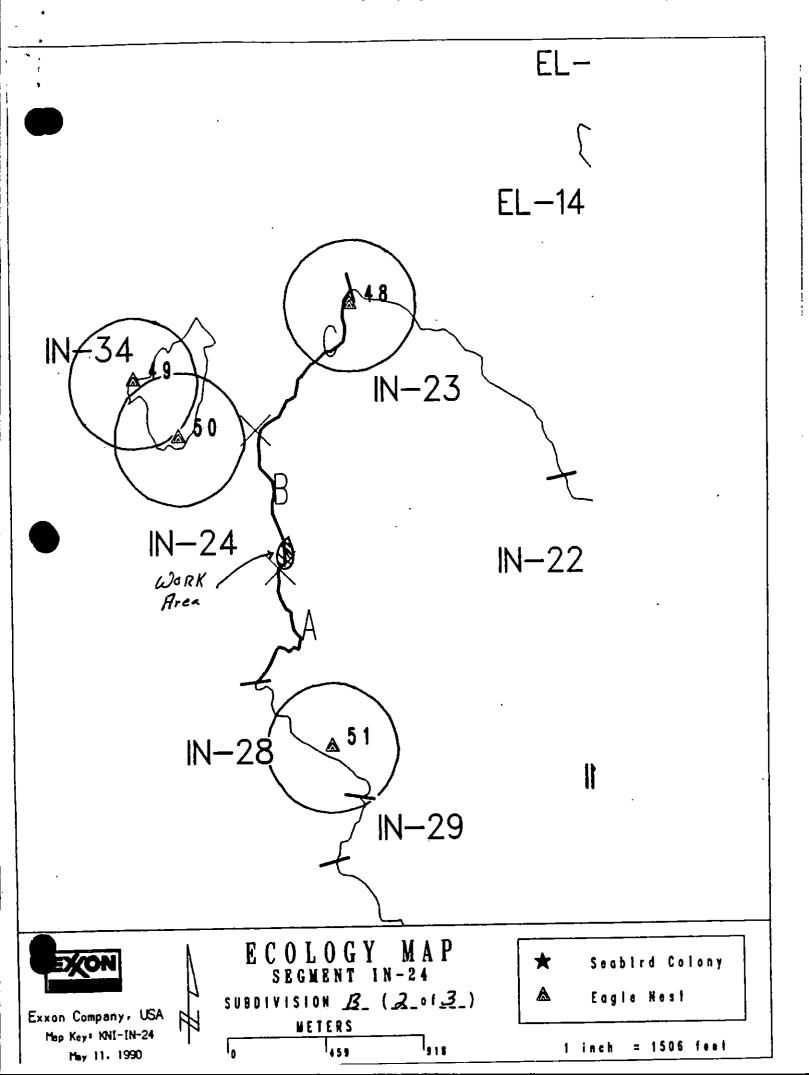
5T Bald Eagle Nest

NO CONSTRAINT. Baid eagle nest in Subdivision C is over 400m from work area.

#### OTHER ECOLOGICAL CONSIDERATIONS

Avoid any unnecessary disturbance or damage to unoiled biota and substrate.

TAG APPROVAL DATE 5/29/20. ADEC Apt Wexing Authorities EXXON Anny FAZ NOAA BWESCOH Remission USCG C.A. TEXTER C.A. T.E.	FOSCH AWachler	MAY 29 1990 
Prepared By: ander Meyer WK	Date	<del></del>



SEGMENT IN-24 SUBDIVISION C (3 of 3)

				المسابق المنطقة	
		VORK WI	NDOW		
Manual Pic	kup			OPEN	l

#### ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274

# APPLICABLE ECOLOGICAL TIME CONSTRAINTS

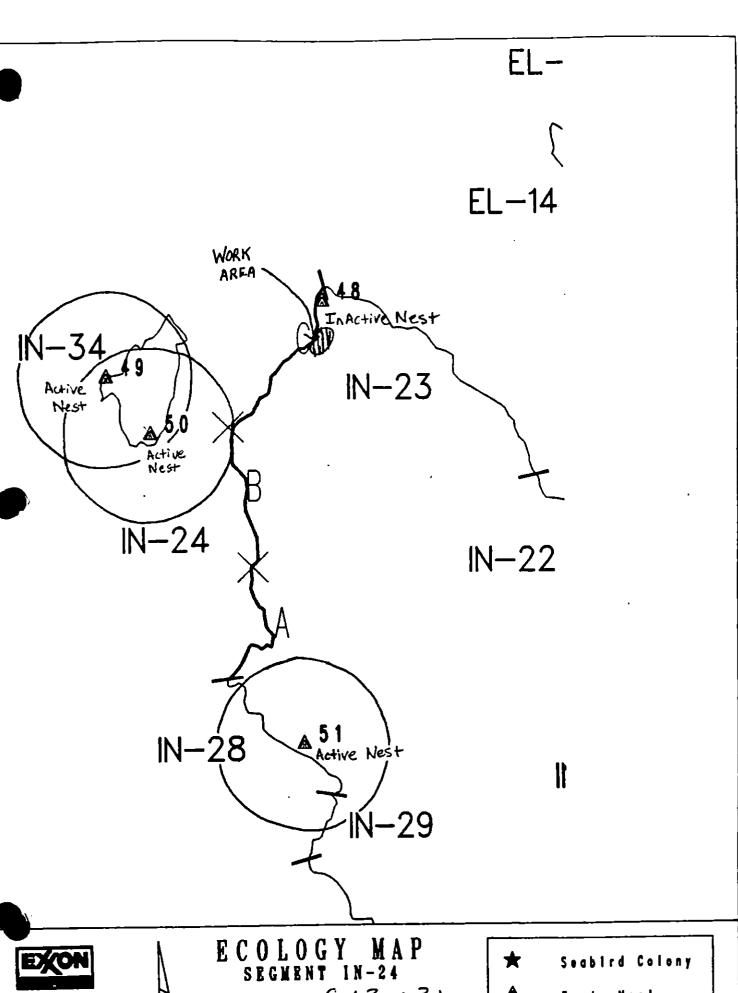
5T Bald Eagle Nest

NO CONSTRAINT. USFWS 6/1/90 map indicates no active nest within 400m of Subdivision C work site.

#### OTHER ECOLOGICAL CONSIDERATIONS

Restrict air traffic and all disturbance to essential minimum. No personnel or boat traffic within 400m of active nests. Air approach and takeoff from and to seaward only; maintain 400m horizontal, 300m vertical distance from active nests. Avoid any unnecessary disturbance or damage to unoiled biota and substrate.

TAG APPROVAL DATE  ADEC Ray Monnis Remain  EXXON AND TO WKELLEY	FOSC_	ML	DATE & June 90
NOAA 0			
USCG		$\nu$	
Prepared By: Ander Mey PP	_	Date 6/5/90	



Exxon Company, USA Man Keys KNI-IN-24

SUBDIVISION <u>C</u> (3 of 3) WETERS

A Eagle Nest

# SHORELINE EVALUATION

SEGMENT ST	/ <u>IN-28</u>	_ SUBDIVISIO	N <u>A (1 OF 1</u>	<u>)</u> DATE4,	/8/90
5T-1 Al	VIRONNENTAL SE l bald eagle ne creation: Spec aed Ecological	ests (3/1 to ial use dest	6/1)-Active ination	eagle nests	
See attach contacts.	led Ecological	Constraint	Sheet 101	specific co.	
SUBDIVISIO Avoid any substrate.	N ECOLOGICAL C unnecessary	<b>ONSTRAINTS:</b> disturbance	or damage	to unoile	d biota
		•			
	,				
SHPO SIGNA	TURE:	MALL	DATE: 3	18/90	
	egoryzation:			•	
Wide_32_m: Subsurface RECOMMENDA	Medium 0 m: Oil Observed:	Narrow <u>22</u> Yes N	m: V.Light_ No_X Ma	468 m: No O	il <u>123</u> m
No Tr	eatment Recomm	mended	Snare/Abs	orbent Booms	5 \
<u>X</u> Treat	ment Recommend		Absorbent	s (pads,rol)	ls,etc)
X Biore	l Pickup emediation		Spot Wash	ing:W	ands
Tarma	l Pickup emediation ht:Breaku Remova	ip il	Other (se	Beach Cleace comments)	aner
	Recommended t				f broken c
COMMENTS: area show	on sketch mar	with USFWS	permission	regarding t	he eagle
nest.					<del></del>
TAG COMMEN	NTS: MONITORS	70 ASSE	er Suitz	PURING TRAI	mant.
	<u> </u>				
				<u> </u>	
<del></del>					
		125/0			
TAG APPROT	VAL DATE:	23/72	1		
	of TGAH Beal	FOS	c: <u>~1</u>	DATE:	5-12-20
NOAA , Le	on Talbott	1CIUN	1		
USCG K	July Kunner (	1/			

# PWS, SEWARD AND HOMER ECOLOGICAL CONSTRAINTS

1A 1B	Salmon stream mo	with - fry outmigration (3/1 to 5/15) with - spewning (7/10 to 8/31) tream bed or banks unless authorized by ADF&G. No beach flushing into stream drainage or other chemical application within 100m of stream. Contact ADF&G Habitat Division prior mits.
10	Salmon fry nursery	area. (4/31 to 7/31)
1D `	Esther Hatchery rei	ease (4/15 to 6/1)
1E	Main Bey Hetchery	release (4/20 to 5/10)
1 <b>F</b>	Sawmill Bay Hatch	ary release (4/15 to 6/1)
1G	Cannery Creek Had	chery release (4/21 to 6/1)
1H	Remote release sit	
:11	Gill net area (6/7 t	o 6/31)
1J	Purse seine area (	7/20 to 9/30)
1K	Purse seine hook-o	ff (7/20 to 9/30)
1L	Set net sites (6/11 For Codes 1C throu	to 7/25) Igh 1L contact ADF&G for specific dates, locations and constraints.
2M		(4/1 to 6/15) to essential minimum. Avoid damage to unoiled intertidal and subtidal algae and seagrass. specific dates and locations.
3N, 3P 3O, 3Q	Herbor seel and se Restrict boat and a	a Son pupping (5/15 to 7/1) a Son molting (8/15 to 9/15) but traffic to essential minimum. No personnel within 400m: Aircraft to maintain 800m n vertical distance from haulouts.
5R		(1 to 9/1) essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m contact ADF&G and USFWS prior to treatment.
<b>5</b> \$		n concentration (4/1 to 5/15) o essential minimum, especially air traffic.
 চা		esis (3/1 to 9/1) essential minimum. No personnel within 400m, 3/1 to 6/1. Air approach and takeoff from y; maintain 800m honzontal, 300m vertical distance from nests. Contact USFWS prior to
<b>6</b> U	Pacreation:	Tent sites (6/1 to 9/15)
<b>6</b> V		Anchorages (6/1 to 9/15)
6W		Forset Service cabins (6/1 to 9/15)
<b>6</b> X		Lodge (6/1 to 9/15)
 6Y		Special use destination
	C. hairtana amar	Column beauties #11 to 0.000
7Z	STOREGISTICS STATE	Salmon harvesting (5/1 to 9/30)
7 <del>14</del> 1		Firstish harvesting
71		Deer harvesting (8/15 to 2/28)
7 <b>.</b> JJ	For Codes 72 through	Invertebrate harvesting sh 7JJ contact ADF&G and Chenega Corporation for specific dates, locations, and constraints

# FIELD SHORELINE COMMENT SHEET

SEGMENT ST / IN-28-A SUBDIVISION: A DATE 4/10/90
USCO David A. Schneider SIGNATURE + avid A. Schneider
NO TREATMENT RECOMMENDED TREATMENT SUGGESTED COMMENTS
NO Treatment recommended for this subdivision.
Degree of oiling is very light and consists of only very scattered cover, coat & stain among boulders
and on some surface sediments. Supra intertidal zone
should be rerevaluated after snowmelt. No Sub surface oil was found in this subdiv.
NAME Peter Montesanosignature Peter Montesan
COMMENTS The Supratidal was snow covered on S beach at time of
COMMENTS The Suprestidal was snow covered on sbeach at time of inspection. The Sbeach has heavy interesticial Rurroff down the Middle.
LAND MANAGER NAME JANETTA Pritchard SIGNATURE Jude Pritchard
NO TREATMENT RECOMMENDED TREATMENT SUGGESTED COMMENTS

HARACTER	Ots	TRI	BUT	МО	_		LM C		OR J	_	APA ZOI	<b>123</b>	_		PATTIE						9_sq. m by_0
ASPHALT	~	•	•	•		<b>%</b>	<b>%</b>			34)	•	•	끡		NEAR S	SHOR	E SI		N7 (	660	BR RW SL
PAVEMENT							$\dashv$	_	_				$\dashv$							$\stackrel{\smile}{-}$	1
POOLED								<del>  </del>	_					1	OLE						
COVER				X	Ц			X			X		_	1	Logs						DEBRIS COLL
COAT		0	X	$  \vee  $		<b>Z</b>		_	}			0	_		Vege	ation				┢	TES E
STAIN				X			_	XI			X		_	·	Trest					┢	TYPE O
MOUSSE							ightharpoonup	_4	_						Debri		_			-	BAGS O
PATTIES			l	}	1								$\exists$	L						<u> </u>	J #BAGS
PAITES					_																
TARBALLS				X		X					X			1	Photog			٠ ـ	•		
	5	noc	<i>ω</i> ,	X 57	S'r		  -  -  -	eac	k	S	X		X	•	_	No		<u>0</u> 2	<b>E</b>		
TARBALLS FILM NO OIL UBSURFA PIT PIT	ACE s	OI	L		0 : E	ras Sui	B 50	uR	FA	tce					Roll	No		0N	- AN	1	SUBSURFACE SEDIMENTS
TARBALLS FILM NO OIL UBSURFA	ACE s	OI SUBS	L SUPI	// FACI	O S	Sui		UR	FA	tce w	e C	/FI	M C	cou	Roll Fran	No	<i>Ν</i>	,	_ _ [^		
TARBALLS FILM NO OIL UBSURFA PIT PIT NO. DEPTH	S	OI SUBS	L SUPI	FACI	O S	Sui	B SO PLEC ERV	UR	FA	tce w	e C	/FI	M C	cou	Roll Fran	No	IT NE	,			
TARBALLS FILM NO OIL UBSURFA PIT PIT NO. DEPTH	S	OI SUBS	L SUPI	FACI	O S	Sui	B SO PLEC ERV	UR	FA	tce w	e C	/FI	M C	cou	Roll Fran	No	IT NE	,			
TARBALLS FILM NO OIL UBSURFA PIT PIT NO. DEPTH	S	OI SUBS	L SUPI	FACI	O S	Sui	B SO PLEC ERV	UR	FA	tce w	e C	/FI	M C	cou	Roll Fran	No	IT NE	,			
TARBALLS FILM NO OIL UBSURFA PIT PIT NO. DEPTH	S	OI SUBS	L SUPI	FACI	O S	Sui	B SO PLEC ERV	UR	FA	tce w	e C	/FI	M C	cou	Roll Fran	No	IT NE	,			
TARBALLS FILM NO OIL UBSURFA PIT PIT NO. DEPTH	S	OI SUBS	L SUPI	FACI	O S	Sui	B SO PLEC ERV	UR	FA	tce w	e C	/FI	M C	cou	Roll Fran	No	IT NE	,			

				SHOF	RELINE	ECOL	.ogic	AL SUR	MAR'	Y	:1	A A A
Segmer	4 ST/_	M28	8000	Sivision_	A				Date	(mo / d	ley / yr )_	April . 8 1990
	17	30- 1815	- J.	gist	1m 84	eny			_ L	ongth	- 650	<b>ም</b>
(A)	Substra (1) B	tte type a edrock	15 (2)	segme Boulds	nts: - (소울 (	3) Cot	ble_ <u>5</u>	_(4) P	ebble_3	· (5	) Sand_	<u>2_(6)</u> \$≥
(B)	Overal	% cover	of biota	( <b>%</b> -61	egment	): Deni	50	Moder	de 65	Low_	<u>5</u>	
(C)	vertica	y, substra I zonation es / adulti	i of majo	r taxa:	( ribber-	U; MK <del>I N</del>	A, abov 1; low tix	9 ), & 14I-L );				57-6-5 8-10
BARNA	CLES											
1U 2 3 4 5	Dense 1M 2 9 4 5	1L 2 3 4 5	- S. C.		- Se	1U 2 3 4 5	Sparse 1M 2 3 4 5	1L 2 3 4 5	12 m 2000 6	Rare 1M 22 3 30 5 6	1L 22 3 5 5 6	NOT PRESEN
MYTILU	8									<b>A</b>		
1U 2 3 4 5	Dense 1M .2 3 4 5	1L 2 3 4 5	<b>1</b>	3 4 5 6	1L 2 3 4 5	12 Mg s s 6	Spane 1M 5	100	I Was	AND THE STATE OF T	1L 22 3	NOT PRESEN
GASTR	0 <b>P0D</b> 9			<b>8</b> - <b>.4 4</b> -			•			Rare	, .	
ქU 2 3 4 5 6	Dense YU 4 5 6	XXX = 5 0	100 mg		<b>369</b>	1U 2 3 4 5	Sparse 1M 2 3 4 5	1L 2 3 4 5	1U 2 3 .4 5	1M 2 3 4 5	1L 2 3 4 5	NOT PRESEN
FUCUS	Dense			loderate	_		Soarse			Rare		
1U 2 3 4 5 8		1L 2 9 4 5	- Ballet			TXXX SO	Sparse 1M 2 3 4 5	1L 2 3 4 5	1U 2 3 4 5	1M 2 3 4 5	1L 2 3 4 5	NOT PRESEN
	6 • Obses	6 vatione/	j V General	Comm	enie:	1		•	1 -		•	

.1

1 Seal : 2 Common Meganson

3 Pigeor Guellemot

Ecological Considerations: 6 Y - Special use distination.

There are no special considerations for this segment that require specific charges in cleaning schedules or procedures.

START 1720 TIAM 1915 WINDOW

General Comments

- A. INZE & is a short segment containing a public/estable beach, a cobble/brulle book/evattine, and vertical cliffs Brota an of average in density overall, with a moderate, & and pathy density of muscles. Barnacles and Fucus are moderate in abundance. Castropodo au moderate in juneral, but whelks one dense in most mid-to-low yours.
- 3. Oil to sparsely distributed in the segment, and sparse or rank in the low to high years. Several invartebrates are present as juriales a sport ( Clams, many pure of algae, and other invertebrates).

The Mayor spenes.

- A. BANNALLES Dense on moderate populations along most of the segment. Surenels of Balance (Cottom rect and Semidalemen)
- spanse cover in most spots, but patches of higher B. Myhlus denutes, particularly on vertical cliffs.
- c. Castropude Percerntees and longels are generally moderate m. denety, but whether, specifically Nucella emorgenate, is dense on most surfaces (adults and jurious)
- D. Fucus morderate occasional high densely of juveniles or Sperlings in upper and midgines.
- III Other penis Nost puis Expreal of other locations, except highly exposed cities, an present in the segment. Filamentous algue an abundant at this site.

# III Species LIST

- A. MARINE PLANTS
  - DIATOMS / BLUE GREEN ALGAS MODES
  - 2) GREEN ALGAE CHLOROPHYTA

ACROSIPHONIA D23
CLADOPHORA SIZ
ENTEROMONDHA MIZZ
GREEN CRUT. AIZ
ULUA MIZZ
LIROSPORA MZZ

3) RED ALGAT - RHODOPHYTE

BOSSIDLA RIZ
CALLIARTHRON RIZ
CORALLINA RIL
CORALLINA RIL
CRYPTOSIPHONIA MIZZI
ENDOCLADIA MURICATA SI
HALOSACCION GLANDIFORME MIZZ
IRIDAGA SIZ
MASTOCARPUS SIZ
MICROCLADIA MIZZ
LITROTHAMINION PALIFICUM SIZ
PERPHYRA SPP. SIZ
RADOMICA CANIZ MIZIZ
RHOOYMENA PACMATA RIZ

BROWN ALGAE - PHAEOPHYTA

ALARIA MARLINATA MY I

AGARLEM SPP. MY

COSTARIA MI

FUCUS DISTICHUS MIZ

HEDOPHYLLUM SESSILE MY

HILDON BRANDIA MIZ

LAMINARIA MY

NERSOCYSTIS SU

PALPSIA B S 12

SCYTUSIPHON COMMTANIA 512

A SPAT OR JUVENIUS PRASENT

D DENTL

M MORLLAGE

S STARSE

R RATE

I BENROCK

2 BOULDER

3 COBBUE

4 PLBBIE

U. SUBTIDAL

# B MARINE INVENTEBRATES

- D'ANEMONES

  EPIACTIS RITTERE? SIENT

  UTTIGINA CRASSICORNIS RI

  Anthopleura elegantissima RI

  A. artimisea Sie

  A. Kanthogrammica P-1
- 2) Annelid Worms
  Polychaetes
  Nerendar 323
  Nepthydae 523
  Serpulidae
  Serpulidae
  Serpula M/ *
  Craciqua m/
  Spirorbidae
  Spirorbidae
  Spirorbis. D23 *
- 3) Peanul Worms Sipunculid
  Phascolosoma herestes 523 4
- 4) MOLLUSCY

  a) CHITONS

  (CATHERINA TUNCATA 512 A

  TOWICCALA LINEATA 5.12 A

  MOTHUM SPP. R.)
  - b) Snaulo-Bastrupous
    Litturna scutulata M123 £
    L. sitkana 10123 £
    Nucella lomellosa 70123a
    N. smarginata D12 A
    Searlisea dira 1023a
    Amplissa columbiana 523a
    Tashyrhyrehins Spp. R23
  - C) Nudebranchs Lancilladoris fusca 312
  - d) Limpers
    Lotte digitalin 1124
    Acmeen mitra 512
    Lotte persona 11230

- d) length (conf)
  1 Return Scutum 12123
  T. ferroma 1885 512
  Biphonara thereiles 11-12
  Pradore aspera R1
- P) Munch mytilus edulis M-0123
- f) Clours

  Jingle PODDOSSMUS GEP10 M

  Hiadella gp. 5234

  Protestace steminer 5234

  Macome app. K23
- 3) Crustaleans

  1) Brewsers
  Semibalances Convosus D-M12
  Balances Standula 4 M123
  Chthomalus dalli AM123
  - 2) Crabs
    Haplogistin fop 323
    Hemigrapsus onegonensiak.
    Pugittea Spp. 5234
    Hermit Crabs laguidae M
  - 3) Beach Hopper
    ISOPODA SLIA
    AMPHIPODA
    Orchestra? 19234
- h) Bryonosms Schisaponella: 877? 1423
- E Schnodermo

  17. See Stone

  023 a Pyenopoda helianthold

  023 a Damasterias imbricata

  m23 a Ceptarlanas Lexactis

  5 23 Evanterias truscheli

  R23 Orthathuas kochturi

  1 1912 Piscolar ochrecus.

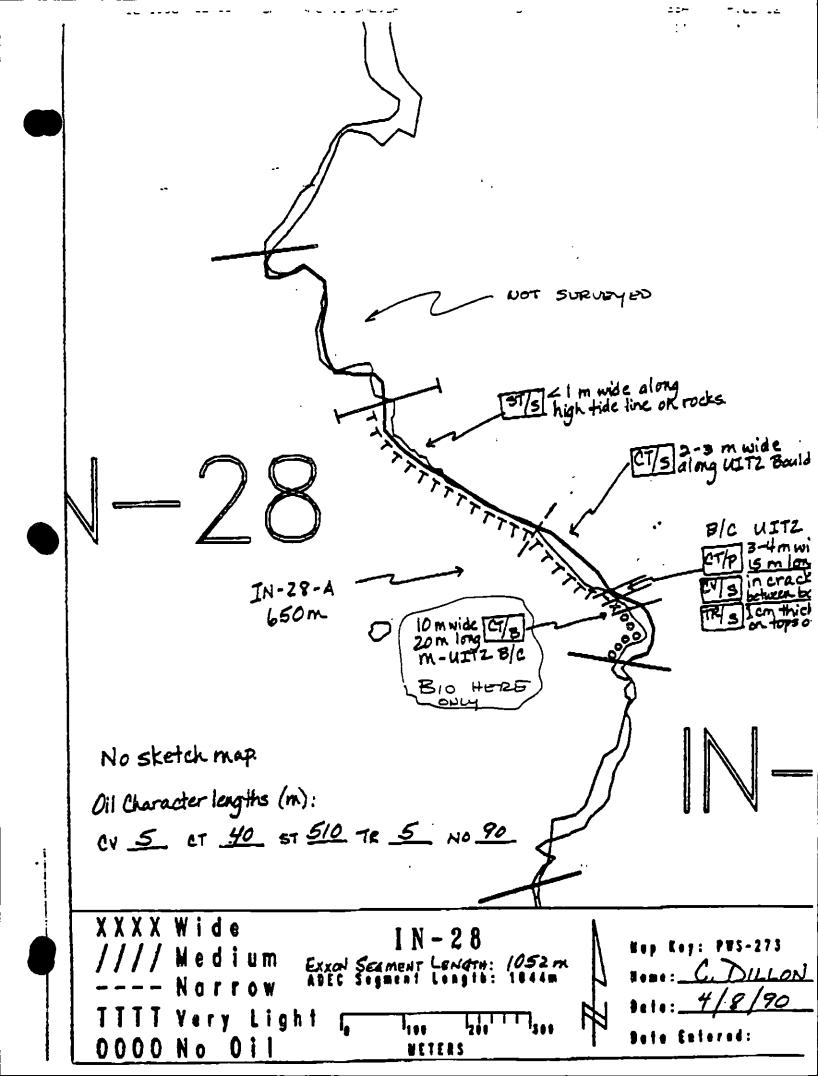
5/6

SPECIE LIST (cont)

- i Echinodesms (cont)
- 2) Britle Stan Ophiolis 4p? R23
  - 3) See Commenters Commenter minister R23
- 3) Sen urchin Strongylo controllis drockachensis R23
- C. Merine Undebroles

  DESH: PHOLOAE M-D23 &

  COTTIDAE 3/200



"SEGMENT IN-28 SUBDIVISION A (1 of 1)

	WO	RK WINDOW	
Bioremedia	ition		CLOSED

#### ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

#### APPLICABLE ECOLOGICAL TIME CONSTRAINTS

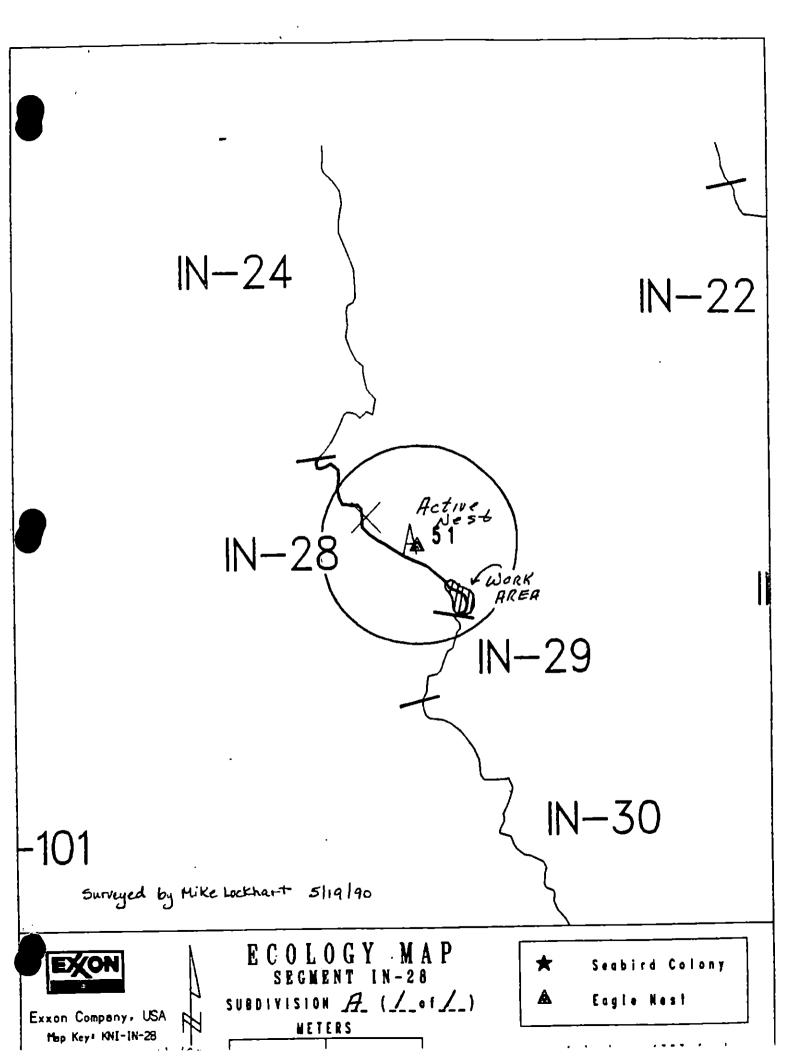
5T Bald Eagle Nest

USFWS 6/1/90 map indicates an active nest in Subdivision B. Closed to bioremediation within 400m of active nest.

#### OTHER ECOLOGICAL CONSIDERATIONS

Avoid any unnecessary disturbance or damage to unoiled biota and substrate.

TAG APPROVAL DATEADEC EXXONNOAA	FOSC_	n_	7			DATE (_10-9)	ձ
Prepared By: Wall.		Date_	6/0	1/90	_		



And to Park

# SHORELINE EVALUATION

	SEGMENT ST/ IN-29 SUBDIVISION A (1 OF 1) DATE 4/24/90
)	SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS: 6Y Recreation: Special use destination Note adjacent segment with bald eagle nest >400 m from subject segment. See attached Ecological Constraint sheet for specific constraints and contacts.
	SUBDIVISION ECOLOGICAL CONSTRAINTS:  Avoid any unnecessary disturbance or damage to unoiled biota and substrate.
	SHPO SIGNATURE: Cachel day Date: 6/1/90
	SHPO SIGNATURE: <u>rather 684. The DATE: 6/1/30</u>
	OILING CATEGORIZATION:
	Wide 0 m: Medium 0 m: Narrow 8 m: V.Light 274 m: No Oil 129 m Subsurface Oil Observed: Yes X No Maximum Depth 20 cm
	RECOMMENDATIONS:
	No Treatment Recommended  X Treatment Recommended  Manual Pickup  Bioremediation  Tarmat Removal  Snare/Absorbent Booms  Oil Snares (pom poms)  Absorbents (pads,rolls,etc)  Spot Washing:  Beach Cleaner  Cother (see comments)
	COMMENTS: MANY ACCUS OF TAR PATTIES AS INDICATED ON SMETCH MANNON PORING IN OF CUSTOMBLEN IN AREA OF TP 8 (FIRM BER
	TAG COMMENTS:
	TAG APPROVAL DATE: 5/1/90  ADEC ART WANT DATE: 6-6-90  NOAA GAN POTTON SON DATE: 6-6-90  USCG KENNETH KERNET SON DATE: 6-6-90

Salmon stream mouth - fry outmigration (3/1 to 5/15) 18

Salmon stream mouth - spawning (7/10 to 8/31)

No disturbance of stream bed or banks unless authorized by ADF&G. No beach flushing into stream drainage. No bioremediation or other chemical application within 100m of stream without authorization from ADF&G. No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, prior to at least July 1 unless authorized by ADF&G. Treatment which is not intrusive and which will not affect nearshore oil or toxicity levels, such as manual removal, can probably proceed without adherence to time constraints. In any case, contact ADF&G Habitat Division prior to treatment for consultation and/or permit application.

AGENCY CONTACT PERSON: ADF&G John Morison 267-2324

Selmon fry nursery area. (4/31 to 7/31). 1C

No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or inipol application, prior to July 31 unless authorized by ADF&G. Treatment which will not affect nearshore oil or toxicity levels, such as manual or mechanical removal, can probably proceed without adherence to time constraints. Contact ADF&G prior to treatment for confirmation and advice.

AGENCY CONTACT PERSON: ADF&G Larry Poitz 424-3214

Esther Hetchery release (4/15 to 6/15) 1D

1E

Main Bay Hatchery release (4/20 to 6/15) Sawmill Bay Hatchery release (4/15 to 6/1) 1F

Cannory Crack Histohery release (4/21 to 6/1) 1G

Pernote release site

No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, prior to at least July 1 unless authorized by ADF&G and/or PWS Aquaculture Association. Treatment which will not affect nearshore oil or toxicity levels, such as manual or mechanical removal, can probably proceed without adherence to time constraints. Contact ADF&G or PWS Aquaculture Association for confirmation and authorization.

AGENCY CONTACT PERSON: 1E

ADF&G Larry Peltz 424-3214

1D 1F 1G PWS Aquaculture Association John McMillan or Bruce Suzomoto 424-7511

Gill net area (6/7 to 8/31)

Purse seine area. (7/20 to 9/30) **1**J

Purse seine hook-off (7/20 to 9/30) 1K

Set net sites (6/11 to 7/25) 11

Contact ADF&G for specific dates, locations and constraints. Restrict boat and air traffic to essential minimum. When set net sites are present (1L) restrict beach operations to essential minimum as authorized by ADF&G. If plans for treatment include methods such as hot water wash or Inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization.

AGENCY CONTACT PERSON: ADF&G James Brady 424-3212

Herring spawning (4/1 to 6/15) 2M

Contact ADF&G for confirmation - dates and locations may vary. Restrict boat traffic to essential minimum. Avoid damage to unciled intertidal and subtidal algae and seagrass. If plans for treatment include methods such as hot water wash or inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization.

AGENCY CONTACT PERSON: ADF&G Evelyn Biggs 424-3235

3P Harbor seal and sea lion pupping (5/15 to 7/1) 30, 3Q

Harbor seal and sea lion molting (8/15 to 9/15)

Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts. No application of Inipol within two weeks of arrival dates (work window at these sites is limited to 7/2 to 7/31). Contact ADF&G and USFWS prior to treatment for confirmation.

AGENCY CONTACT PERSON: US National Marine Fisheries Service Steve Zimmerman 586-7235

ADF&G Don Calkins 267-2403

58 Seabird colony (5/1 to 9/1)

Restrict air and boat traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance from colony. Contact USFWS prior to treatment.

AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377

Shorebird/waterfowl concentration (4/1 to 5/15) 5S

Restrict all activity to essential minimum, especially air traffic. Contact USFWS and ADF&G for confirmation.

AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377
ADF&G Tom Rothy 267-2208

51 All Baid Eagle nests (3/1 to 6/1)

Active Bald Eagle nests (3/1 to 9/1)

Restrict air traffic and all disturbance to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only: maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates.

AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377

6U Recreation: Tent sites (6/1 to 9/15)

Anchorages (6/1 to 9/15)

Forest Service cabine (6/1 to 9/15)

Lodge (6/1 to 9/15) Special use destination

**7Z** 7HH

> 71 **7JJ**

**6V** 

**6W** 

**6X** 

Subsistence area: Salmon harvesting (5/1 to 9/30)

Finfish harvesting

Deer harvesting (8/15 to 2/28)

invertebrate harvesting

Contact ADF&G and appropriate Native Corporation for specific dates, locations, and constraints. Restrict boat and air traffic and beach disturbance to essential minimum. If plans for treatment include methods such as hot water wash or application of Inipol which might affect intertidal or nearshore oil or toxicity levels, contact ADF&G and appropriate Native Corporation for authorization - see Native Corporation Contact List for each Native Corporation's contact person.

AGENCY CONTACT PERSON: ADF&G Jim Fall 267-2359

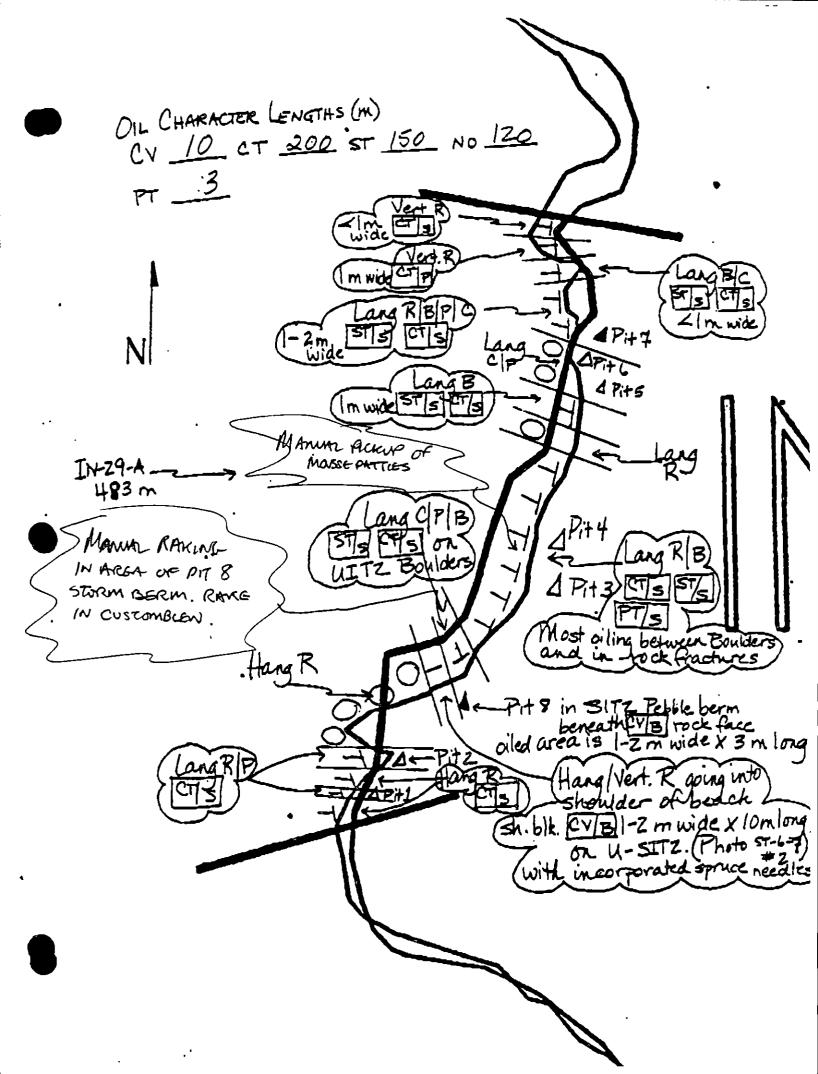
# FIELD SHORELINE COMMENT SHEET

	SEGMENT ST 1 IN-29 SUBDIVISION: A DATE 4/24/90
	NAME WILLIAM E. WHITE SIGNATURE WILL E. WILLE
	NO TREATMENT RECOMMENDED TREATMENT SUGGESTED COMMENTS
	ADEC
	NAME Peter Montesano SIGNATURE Peter Montes
	OMMENTS  TREATMENT SUGGESTED  TO TREATMENT SUGGESTED  TO TREATMENT SUGGESTED  TO TREATMENT SUGGESTED  TO TREATMENT SUGGESTED
	Hand wipe cover off of Rock faces tucked back upoffwater leading to pit #8. Pull down + Bio small Pit 8 bern which is hidden and runs Perpendicular to beach.
	Pits berm 1-2 m x3m
	minum Cover
	LAND MANAGER - US DA - Forest Service
	NAME DO J. Breitizger SIGNATURE TO BUTTER NO TREATMENT RECOMMENDED TREATMENT SUGGESTED
4	
	this segment special use de streation appears to be the best weathern appears to be the best
1	hatural weathering appears to be the last.
7	

### SUBSURFACE OIL

PIT NO.	PIT DEPTH	SUBSURFACE OIL CHARACTER				OLED	BELOW OIL / FILM COL					OR		ZO		<b>A</b> X A	SHEEN (YAB)	¥	SURFACE SUBSURFAC SEDIMENT		
	(CITI)	<b>~</b>	<b>04</b>	QL.	œ	110	2 (2.5)	100	w	X	X	×	<b>1</b>	*	8	Į0	۲				
$\mathcal{I}$	30					X	•		X							X			N		P-P
<u>ا</u>	10					X	•		X							X			N	-	B/C-P/GI
3	10		X				0.3		X				X		X				N	_	RIBIC-PIG
4	10					X	•		X							X			2	1	CBP-P
5	30				<u>!</u>	X	•		X							X			2	_	P-P
6	35				L	X	•		X								X		2	1	P-G
7	5		X	•			0-4		X				X		X				2	-	BC-PG
8	25		X				0 -20		X				X		X				N	1	P-P/Veg

ONLY SIGNIFICANT OLUNG IS A 1-2 M WIDE X 10 M LONG BROKEN, SHINY BLACK COVER ON A ROCK FACE AT THE SOUTH END OF THE SUBDIVISION. PIT 8 IS IN A PEBBLE BERM AT THE BASE OF THIS COVERED ROCK. THE OILED BERM AREA 15 1-Z M WIDE X 3 M LONG AND UP TO 20 CM DEEP. DATE 4-25-90 PIT 3 WAS DUG THROUGH A 15 CM SO PATTY.



Segmen	# ST / 11	U29	Subdit	vision	A				Date	(mo / da	3y / yr )	4 APRIL 1990
Time ( 2	4 hr ) 67	m→0{	Elolog	ist	IM B	reg	_		_	ngth	<b>=</b> 483	1/7
(A)	Substra (1) Be	te type a	end % of s /0 (2)	egment Boulder	ls: 50 (3	3) Cob	ble_5_	_(4) P	ebble_5	<u>        (</u> 5 )	Sand	_(6) SR
(B)	Overall	% cover	of biota (	% of se	gment)	: Dens	e	Modera	319	Low_		
(C)	vertical	zonation	nte preference n of major s (X),	taxa: (	upper-L	ן; ווווס-א	A, above i; low tid	e),&  al-L);			raphs: Roll No	1
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MYTILU				4		ļ	O			Deca		
1U 2 3 4 5 6	Dense 1M 2 3 4 5 6	1L 2 3 4 5	3 4 5 6	3 4 5 6	1L 2 3 4 5	XXXXX 60 60	Speries A Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Speries Sper		D W C	Rare 1M 2	X~XXXX	NOT PRESENT
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FUCUS 10 2 3 4 5 6	Dense	1L 2 3 4 5	1U 2 3 4 5	oderate (20) 2 3 4 5	34 5 6	1U 23 4 5	Sparse 1M 5	1L 20 4 5 6		Rare 1M 2 3 4 5	1L 23	NOT PRESENT
Wildii	fe Obser	vations	'General	Comme	ents: S	en 6 Ke	ر <u>-</u> ا	HARBO	e Sea	L-2	BALD	84615 -Z

Wildlife Observations/ General Comments: Seublin - 1 HARBOR SEAL - 2 BALD EACLE - Z Herring Gull - 3 Pelagric Commant - 2 Sea Other Skull - ( (Bodly decorposed) Glaucous - wayed Gull - 2 Denskeleton - 1

Picson Gullemot - 7

Ecological Considerations: 5T - BALD ZAGLE NEST IN SECRETOR ROJECTOR TO IN 29.

SY - SPEUAL USE DESTINATION

* Sea Other haul out site located in segment - see 06 map.

0430-0830 TIMG -2---TIDE

# I beneral Comments

IN 29 is located along a moderately exposed shore in upper passage. The main Habitat types are untical bedrock cliffs and high angle bestrock dones, and copple pepple brackes.

# A. HABITATS

1) Ustrical Bedrah / High Angle Bedrock.

BIOTA are typical of habitat type, with patchy, & mussel density, overall moderate to sparse. Barnocles, mainly Balonus and Chthamalus, are dense in patches, but morthy moderate. Semibalanus is much les abundant tran on more imposed segments. Fucus was moderate, with some withered thallie that may have been related to heat treatment last summer.

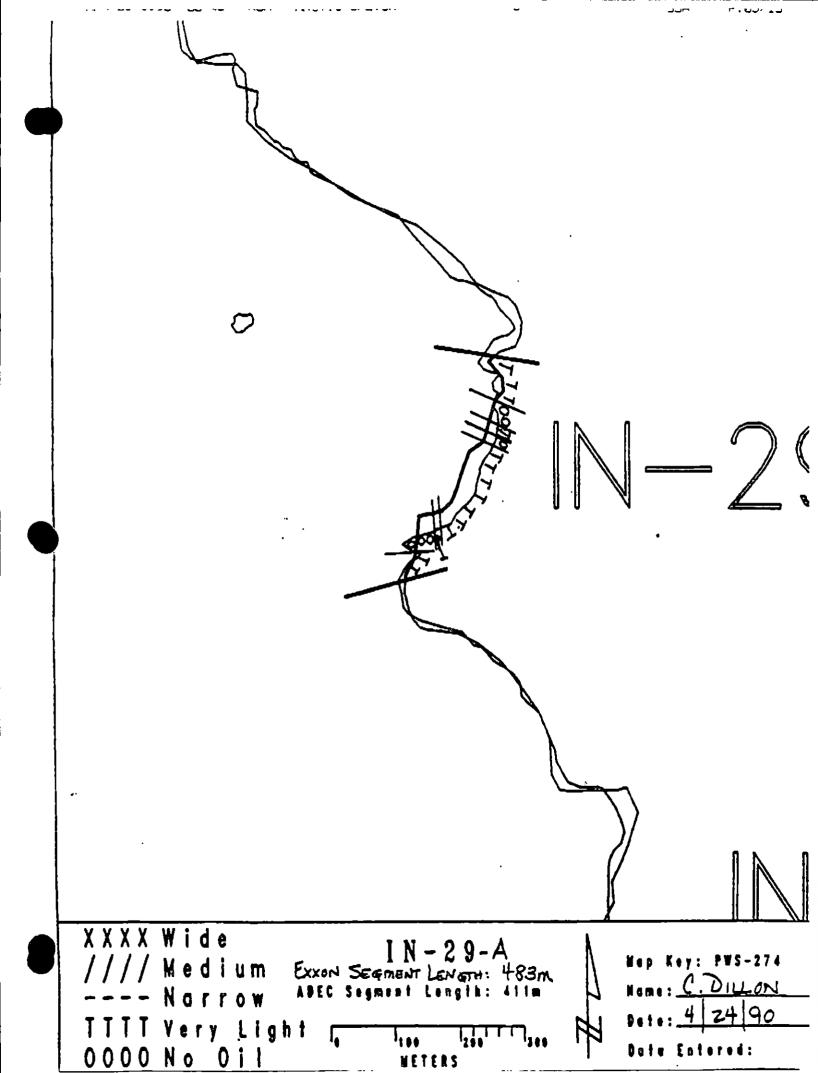
Sea Stare were Strikingly abordant in the low your along this shore, a with lyenopodra, Burnasteres, Solaster being most abundant. Densities reached 8/m2 in some areas. A'fal loves in the low your was denois with UIVA covering the middle to low you in some siles. Odanthalia, Philota, Membranoptera, and Palmaria cover nearly all the extreme low your. Kelps are abundant in the subtidal.

2) COBBLE/PEBBLE BEPCHES

These breakes are exposed to moderate well. Most of the knots in the high to middle syrres are kelled leavery only a cover of ropiding growing algae (filamentous grans) and some the Littrene invites. In the middle to low your, larger cobble are arrisely covered up green algue, as well as sparse freezes and other red algae. C. Hereaes are moderate under for these rocks. Beneath them, several spaces of intuitible fishes are abendant (prichle backs, Sculpino) ( n. 5-10/m²). Banocles & Messels are nace.

B. Oil-Related Comments.

- i) Die Deanup is apparently very menor on their segment (see OG torms) and will have lettle impact on any scological considerations, a baid eagle next is located whim you may the segment.
- 2) Schoffers utilize one of the headlands as a haul out site (see 06 map) and Should not be disturbed or approached, y possible 2



# ADDENDUM: SUBDIVISION CONSTRAINTS

SEGMENT IN-29 SUBDIVISION A (1 of 1)

WORK WINDOW	
Manual Pickup OPEN	
Bioremediation Manual Raking WORK PRIOR TO	7/20

# ARCHAEOLOGICAL STANDARD CONSTRAINT

if cultural resources are uncovered, PHONE 564-3274.

# APPLICABLE ECOLOGICAL TIME CONSTRAINTS

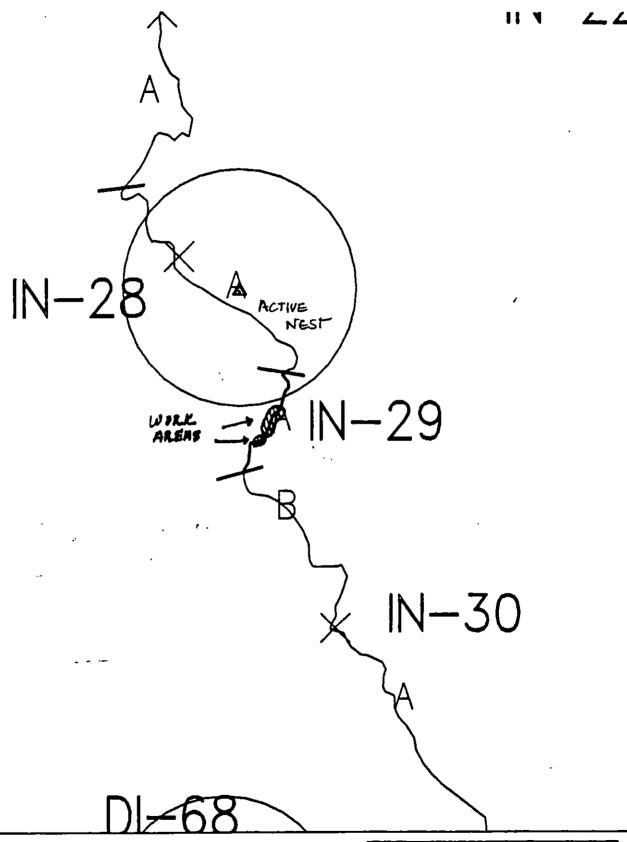
1K	Purse Seine Hook-off	Closed to bioremediation and manual raking after 7/20. No constraint to manual pickup.
ET	Raid Faria Nost	NO CONSTRAINT. USFWS 6/1/90 map indicates

no active nest within 400m of Subdivision A work site.

Closed to bioremediation and manual raking after Subsistence: Deer Harvesting 711 8/15. No constraint to manual pickup.

# OTHER ECOLOGICAL CONSIDERATIONS

Restrict air traffic and all disturbance to essential minimum. No personnel or boat traffic within 400m of active nests. Air approach and takeoff from and to seaward only; maintain 400m horizontal, 300m vertical distance from active nests. Restrict boat and beach disturbance to essential minimum after 7/20. Avoid any unnecessary disturbance or damage to unoiled blota and substrate.





Exxon Company, USA Map Keys PMS-IN-29 June 09, 1990



Saabird Colony

= 1104 feet

1 Inch

# SHORELINE EVALUATION

	SEGMENT ST/ IN-30 SUBDIVISION A (I OF 2) DATE 4/25/90
	SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS: 6U Recreation: Tent sites (6/1 to 9/15) See attached Ecological Constraint sheet for specific constraints and contacts.
	SUBDIVISION ECOLOGICAL CONSTRAINTS: Avoid any unnecessary disturbance or damage to unoiled biota and substrate.
	SHPO SIGNATURE: Reche don Done DATE: 5/25/90  OILING CATEGORIZATION:
1	Wide 0 m: Medium 0 m: Narrow 44 m: V.Light 197 m: No Oil 1109 m Subsurface Oil Observed: Yes X No Maximum Depth 45 cm
	RECOMMENDATIONS: No Treatment RecommendedSnare/Absorbent BoomsX Treatment RecommendedOil Snares (pom poms)Manual PickupAbsorbents (pads,rolls,etc)X BioremediationSpot Washing:WandsTarmat RemovalBeach CleanerOther (see comments)
	COMMENTS: Recommended treatment includes bioremediation of areas of surface coat/stain in areas shown on attached sketch map. No specific ecological time constraints identified.
	TAG COMMENTS: NO BIO ON STAIN - USE CUSTOMBLEN IN ARGAS OF SUBSINFACE LEWS AS INVOICETIED ON SAETELY
)	TAG APPROVAL DATE: 5/12/20 ADEC ART WENER LIX Wenn EXXON Anoy Tean Alas Fosc: June Date: 6/2/90 NOAA Gary Schroe Jang Schron USCG D. D. Rome Word

### PWS. SEWARD AND HOMER ECOLOGICAL CONSTRAINTS

Salmon stream mouth - fry outmigration (3/1 to 5/15) 1A

Salmon stream mouth - spawning (7/10 to 8/31) **1B** 

No disturbance of stream bed or banks unless authorized by ADF&G. No beach flushing into stream drainage. No bioremediation or other chemical application within 100m of stream without authorization from ADF&G. No use of methods which might affect nearshore oil or toxicity levels, such as not water wash or Inipol application, prior to at least July 1 unless authorized by ADF&G. Treatment which is not intrusive and which will not affect nearshore oil or toxicity levels, such as manual removal, can probably proceed without adherence to time constraints. In any case, contact ADF&G Habitat Division prior to treatment for consultation and/or permit application.

AGENCY CONTACT PERSON: ADF&G John Morison 267-2324

1C Salmon fry nursery area. (4/31 to 7/31)

No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, prior to July 31 unless authorized by ADF&G. Treatment which will not affect nearshore oil or toxicity levels, such as manual or mechanical removal, can probably proceed without adherence to time constraints. Contact ADF&G prior to treatment for confirmation and advice.

AGENCY CONTACT PERSON: ADF&G Larry Peltz 424-3214

Esther Hatchery release (4/15 to 6/15) 1D

Main Bay Hatchery release (4/20 to 6/15) Sawmill Bay Hatchery release (4/15 to 6/1) Cannery Creek Hatchery release (4/21 to 6/1) 1E

1F

1G

1H Remote release site

No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, prior to at least July 1 unless authorized by ADF&G and/or PWS Aquaculture Association. Treatment which will not affect nearshore oil or toxicity levels, such as manual or mechanical removal, can probably proceed without adherence to time constraints. Contact ADF&G or PWS Aquaculture Association for confirmation and authorization.

AGENCY CONTACT PERSON: 1E

ADF&G Larry Peltz 424-3214

1D 1F 1G PWS Aquaculture Association John McMillan or Bruce Suzomoto 424-7511

11 Gill net area (6/7 to 8/31)

Purse seine area (7/20 to 9/30) 1J

Pursa seine hook-off (7/20 to 9/30) 1K

Set net sites (6/11 to 7/25)

Contact ADF&G for specific dates, locations and constraints. Restrict boat and air traffic to essential minimum. When set net sites are present (1L) restrict beach operations to essential minimum as authorized by ADF&G. If plans for treatment include methods such as hot water wash or Inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization.

AGENCY CONTACT PERSON: ADF&G James Brady 424-3212

2M Herring spawning (4/1 to 8/15)

Contact ADF&G for confirmation - dates and locations may vary. Restrict boat traffic to essential minimum. Avoid damage to unoiled intertidal and subtidal algae and seagrass. If plans for treatment include methods such as hot water wash or inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization.

AGENCY CONTACT PERSON: ADF&G Evelyn Biggs 424-3235

Harbor seal and sea lion pupping (5/15 to 7/1)

Harbor seal and sea ion molting (8/15 to 9/15)
Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts. No application of Inipol within two weeks of arrival dates (work window at these sites is limited to 7/2 to 7/31). Contact ADF&G and USFWS prior to treatment for confirmation.

AGENCY CONTACT PERSON: US National Marine Fisheries Service Steve Zimmerman 586-7235

ADF&G Don Calkins 267-2403

5R Seabird colony (5/1 to 9/1)

Restrict air and boat traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance from colony. Contact USFWS prior to treatment.

AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377

Shorabird/waterfowl concentration (4/1 to 5/15) ΚS

Restrict all activity to essential minimum, especially air traffic. Contact USFWS and ADF&G for confirmation.

AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377 ADF&G Tom Rothy 267-2206

51 All Baid Eagle nests (3/1 to 6/1)

Active Bald Eagle nests (3/1 to 9/1)
Restrict air traffic and all disturbance to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates.

AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377

Proceedion:

Tent sites (8/1 to 9/15)

Anchorages (8/1 to 9/15)

Forest Service cabins (6/1 to 9/15)

6X

Lodge (6/1 to 9/15) Special use destination

**6Y 7Z** 

7HH

**6V** 

**6W** 

Subsistance area: Salmon harvesting (5/1 to 9/30)

Finish harvesting

Decr harvesting (8/15 to 2/28)

Invertebrate harvesting

Contact ADF&G and appropriate Native Corporation for specific dates, locations, and constraints. Restrict boat and air traffic and beach disturbance to essential minimum. If plans for treatment include methods such as hot water wash or application of Inipol which might affect intertidal or nearshore oil or toxicity levels, contact ADF&G and appropriate Native Corporation for authorization - see Native Corporation Contact List for each Native Corporation's contact person.

AGENCY CONTACT PERSON: ADF&G Jim Fali 267-2359

PWS-COD2 AMM 4/25/90

# FIELD SHORELINE COMMENT SHEET

SEGMEN	NT ST / <u>IN 30</u>	SUBDIVIS	SION:A	DATE_4	-26-8
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				•	
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	TREATMENT RECO	MMENDED	TREATMENT SI	JGGESŢED	
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	TREATMENT RECO ENTS PL COMMUN	mmended d contin	TREATMENT SI	IGGESTED	rug

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UPLANDS DE SURVEYED F	SCF ROA	NPT A:	ION H	Foc		Gres III B	s  081		ore:			-										
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REVISION OF 12 M

SEGMENT ST/ IN-30 SUBDIVISION A ( LOF 2)

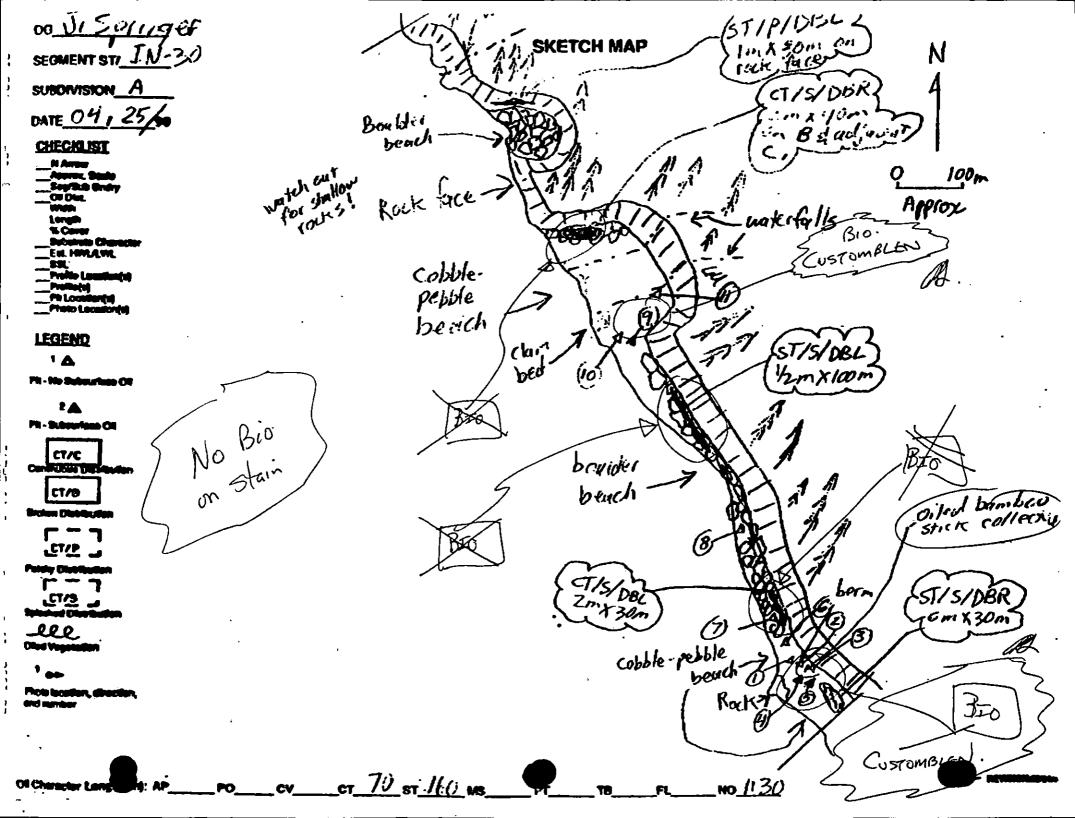
# SUBSURFACE OIL (CONTINUED)

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COMMENTS

* Pit 9 had a zem layer of OR underlain by 28cm of OF. The bottom of the pit was clean.

REVIEWED W DATE 4/30/90



Segmen	nt ST/_1	N.10	Sub	division	<u>A</u>				Dat	r le (mo	day/yr)	4/25/10
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(B)			r of blota						•			
(C)	vertical	l zonatio	ate prefe n of majo (a (X)	r taxa:	(upper	-U; mid-	A, abou	/e ), & idal-L );		Phot	ographs: ' Roll No	<u>5T-5-7</u>
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FUCUS	_							•	i			•
10 273 4 5 5	Dense _ 1M _ 2 _ 3 _ 4 _ 5	1L 2 3 4 5	1U 2 3 4 5	1M 2 3 4 5	1L 2 3 4 5	1U 2 3 4 5	Sparse 1M 3 4 5	1L 1 2 3 4 5	3 4 5 6	Hare Her 3 4 5 6	1L 2 3 4 5	NOT PRESENT
7/ Ne	Obseiva	tione/ G	•	omme	nts:			5	و سمن ا	,		•
	1-1	14901	E	•	11 cids Crav		d -	Seal Har	har '	sen I		•
Ecologic	ر کر al Cons	ideration	ns:	, . 			, <del>-</del>	, iar	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			,

UU-Jund Sites
Avoid disturbing clambed (see OG MGP)

Date: 4/25/90 Time: 0740-0915 Tide Height: -3->-2 ft

Seneral Comments - Poller, film on the water surface,
- Brown film on LITZ cobbie - Diaton?
- Below waterfall. (see 09 map) there is a
whom led - Prototheco and Sandines
= 100 m > 10 m.

- Mux licher falls officience in and interest and moderate in UITZ and MITZ cobbis.

- Ut IW and of subdivision Mucello

in MIT? who fac and will for month of the formal subdivision MITZ Rock builder.

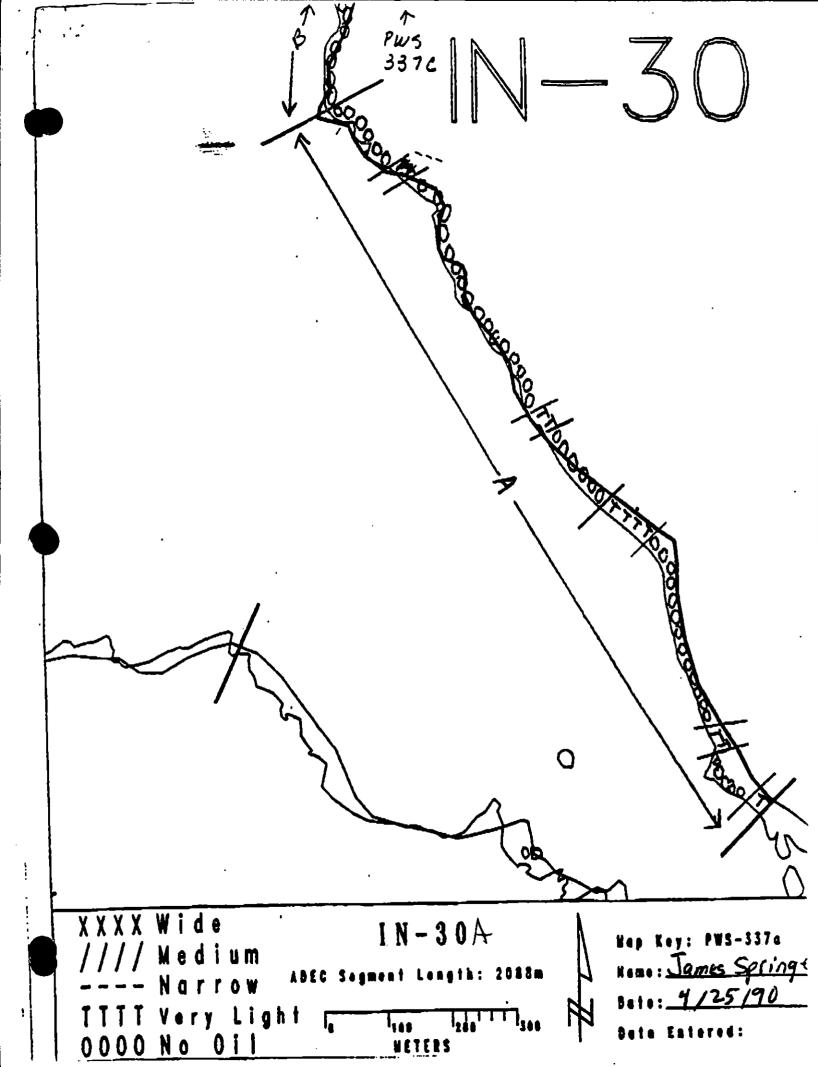
- In the lower intertidal, along the boulders

and rake, biote is sich and dense;

apace appears to be a limiting factor for barnacles.

- Sparse Jucus bond on MITZ bowler, race on rock

- Subdivision appears healthy.



# ADDENDUM: SUBDIVISION CONSTRAINTS

SEGMENT IN-30 SUBDIVISION A (1 of 2)

### **WORK WINDOW**

Bioremediation More Than 400m From Eagle Nest

OPEN

Bioremediation Less Than 400m From Eagle Nest

**CLOSED** 

## ARCHAEOLOGICAL STANDARD CONSTRAINT

if cultural resources are uncovered, PHONE 564-3274.

### APPLICABLE ECOLOGICAL TIME CONSTRAINTS

5T Bald Eagle Nest

USFWS 6/1/90 map indicates an active nest in Subdivision B. Closed to bioremediation within 400m of active nest. No constraints more than 400m from active eagle nest.

### OTHER ECOLOGICAL CONSIDERATIONS

Restrict air traffic and all disturbance to essential minimum. No personnel or boat traffic within 400m of active nests. Air approach and takeoff from and to seaward only; maintain 400m horizontal, 300m vertical distance from active nests. Avoid any unnecessary disturbance or damage to unoiled biota and substrate.

TAG APPROVAL DATE  ADEC  EXXONHAUS O JAHNS Jam O July FOSC	h	DATE 6-4-90
NOAA // 4/3/30		
Prepared By: WTK	Date 6 7 90	<del></del>

# SHORELINE EVALUATION

SEGMENT ST/ IN-31 SUBDIVISION A (1 OF 2) DATE 4/7/90

)	SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS: ADF&G anadromous stream catalogue no. 226-10-16916 1A Salmon stream mouth - fry outmigration (3/1 to 5/15) 1B Salmon stream mouth - spawning (7/10 to 8/31) 6Y Recreation: Special use destination
	SUBDIVISION ECOLOGICAL CONSTRAINTS:  Avoid any unnecessary disturbance or damage to unoiled biota and substrate. Avoid disturbance of salmon stream bed and bank. Stream will be surveyed during ANAD scat.
	SHPO SIGNATURE: J. Varif M. Mahan DATE: 4/23/90
	OILING CATEGORIZATION:
	Wide 0 m: Medium 112 m: Narrow 0 m: V.Light 0 m: No Oil 215 m Subsurface Oil Observed: Yes No X Maximum Depth
,	RECOMMENDATIONS:
	No Treatment Recommended  X Treatment Recommended  X Manual Pickup  Bioremediation  X Tarmat:  Breakup  X Removal  Snare/Absorbent Booms  Oil Snares (pom poms)  Absorbents (pads,rolls,etc)  Spot Washing:  Wands  Beach Cleaner  Other (see comments)
	COMMENTS: Recommended treatment includes 1) manual removal of tarmats.
	Work should be conducted after 5/1, contact ADF&G regarding stream constraint.
	TAG COMMENTS:
)	TAG APPROVAL DATE: 4/23/80.  ADEC ART WINDS Det Wales  EXXON ANOT TEST BEAU FOSC: DATE: 4-27-90  NOAA CIAMO JOBAN KIDST  USCG KENNETH KANNE ( )

# FIELD SHORELINE COMMENT SHEET

SEGMENT ST / IN -31	SUBDIVISION:A	DATE_ <u>04/07/90</u>
	/s_SIGNATURE_AFC	Vanligale
OMMENTS	ENDED TREATMENT	SUGGESTED
I suggest picki	ing up far mats, h	not water wash,
till + bio. of the	he area of IN-31	sub A from the
stream south.	100 M distant by 10	owide.
1050		•
NAME Michele par	2_SIGNATURE	r
THE TOTAL THE STANK DEADLES	ENDER TOPATMENT	RIMARCTED
COMMENTS This area is a very	nier anchorage on mussel and clam	so tent site, with
a salmon stream,	ue Land Managers	recommendations m and 10 x 30M.
When the hand til	ling of the 10 x 100.	m and 10 x 30M should be made to
stay away from to	he salmon stream	recommendations, m and 10 x 30M should be made to
•	•	
LAND MANAGER	signature 7. h	
☐ NO TREATMENT RECOMM	MENDED TREATMENT	SUGGESTED
COMMENTS  I RECOMMEND MANUALLY	REMOVE THE MATS THE AM THE LITE AND MITTY THE	VE TO THE DENSE FLORA  MOMENTAL STREAM  MOMENTAL STREAM
	HAMP TILLED WITH NO FER	TILL TER APPLICATIVE,
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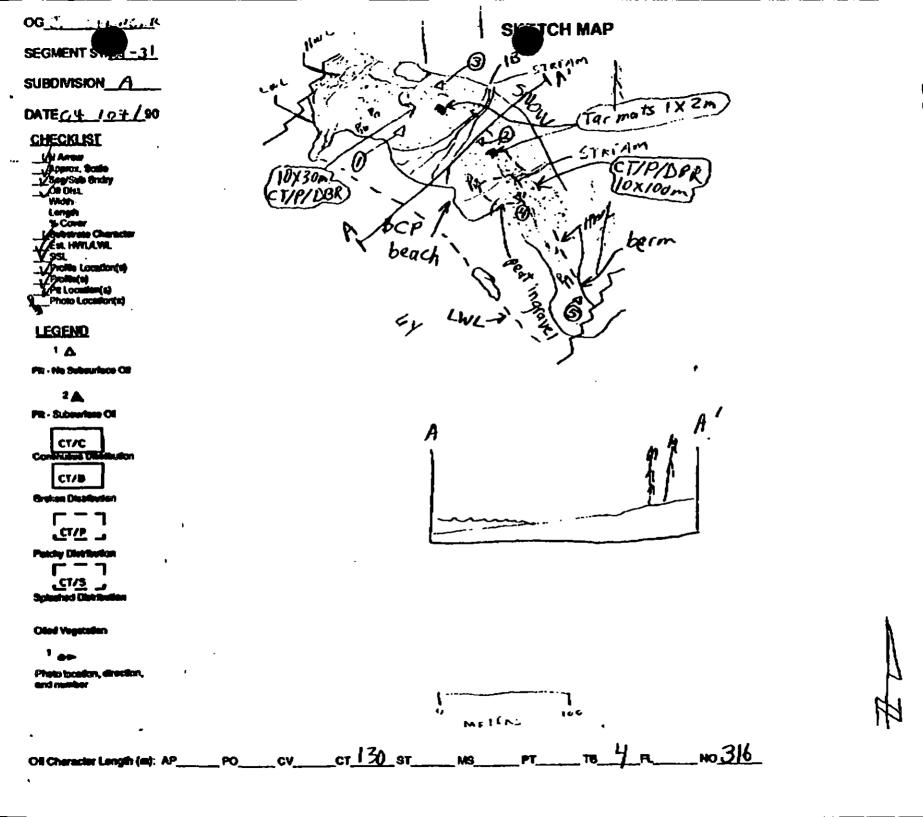
# PWS, SEWARD AND HOMER ECOLOGICAL CONSTRAINTS

1A 1B		Salmon stream mo	outh - fry outmigration (3/1 to 5/15) buth - spawning (7/10 to 8/31) stream bed or banks unless authorized by ADF&G. No beach flushing into stream drainage, or other chemical application within 100m of stream. Contact ADF&G Habitat Division prior rmits.							
1C		Salmon fry nursen	v erea (4/31 to 7/31)							
1D		Esther Hatchery re	lease (4/15 to 6/1)							
1E		Main Bay Hatchen	release (4/20 to 5/10)							
1F		Sawmill Bay Hatchery release (4/15 to 6/1)								
1G		Cannery Croek Hetchery release (4/21 to 6/1)								
1H		Parmote release site								
11		Gill net area (6/7 to 8/31)								
1J		Purse seine area (	7/20 to 9/30)							
1K		Purse seine hook-o	iff (7/20 to 9/30)							
1L		Set net sites (6/11 to 7/25) For Codes 1C through 1L contact ADF&G for specific dates, locations and constraints.								
2M		Herring spawning (4/1 to 6/15) Restrict boat traffic to essential minimum. Avoid damage to unoilled intertidal and subtidal algae and se Contact ADF&G for specific dates and locations.								
3N, 3O,		Harbor seal and sea lion pupping (5/15 to 7/1) Harbor seal and sea lion molting (8/15 to 9/15) Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain horizontal and 300m vertical distance from haulouts.								
5R		Seabird colony (5) Restrict air traffic to vertical distance. (	/1 to 9/1) essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m contact ADF&G and USFWS prior to treatment.							
<b>5</b> S		Shorebird/waterfow Restrict all activity	of concentration (4/1 to 5/15) of essential minimum, especially air traffic.							
51		All Bald Eagle nest Active Bald Eagle r Restrict air raffic to and to seaward on treatment for confir	ests (3/1 to 9/1) essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from ly; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to							
<b>6U</b>		Recreation;	Tent sites (6/1 to 9/15)							
<b>6V</b>			Anchorages (6/1 to 9/15)							
6W			Forest Service cabins (6/1 to 9/15)							
6X			Lodge (6/1 to 9/15)							
			Special use destination							
		<b>A b a b a</b>								
7Z		Subsistence area:	Salmon harvesting (5/1 to 9/30)							
7HH	ı		Finfish harvesting							
711			Doer harvesting (8/15 to 2/28)							
<b>7</b> ,U		For Codes 7Z throug	Invertebrate harvesting ph 7JJ contact ADF&G and Chenega Corporation for specific dates, locations, and constraints.							

10	, S	7.	. W				_USC LAN	JO B	ED	4	5.	1	de j	2 Y			21 E		<b>ISK</b>	<b>W</b> _		.N-31 AC/OFZ\	
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Page 1 of___

REVIEWED_____ DATE_____



HE VALUE OF LABOUR.

_	•	SHORELINE	ECOLOGICAL SU	MMARY PGLO	f.3: REVISION: SV.
_		SubdivisionA		Date (mo / day	141) 4/1/90
Time (	24 hr <u>) 08/0-09/</u>	O Biologist Crank		_ Tide Height	+2 >+3 +4
(A)	Substrate type a (1) Bedrock_	and % of segments: <u>5 (2) Boulder 10</u>	(3) Cobble <u>50 (</u> 4) P		
(B)	Overall % cover	of biota ( % of segment	): Dense 🔊 Modern	ate_/0_ Low_/	<u>v</u>
(C)	vertical zonation	ite preference ( by numb n of major taxa: ( upper- s (X) , new settlemen	U; mid-M; low tidal-L );		phs: II No. <u>57 - 5 - 4</u> Imes <u>14 - 19</u>
BARNA	CLES				
1U 2 3 4 5 6	Dense	Moderate 10 20 % 2 % 3 3 3 4 4 4 4 5 5 5 6 6 6 6	Sparse 1M 1L 2 2 2 2 2 2 2 4 4 4 4 5 5 5 6 6 6	Rare 1U 1M 2 2 3 3 4 4 5 .5 6 6	1L 2 3 NOT PRESEN 4 5 6
MYTILL	JS.				
1U 2 3 4 5 6	Dense 1M 1L 22 34 6	Moderate 1U 1M 1L 2 2 2 9 3 3 4 4 4 5 5 5 6 6 6	\$3.00 1L \$2.00 2 \$3.00 3 \$4.00 4 \$5.00 6 \$6.00 6		1L 2 . 3 NOT PRESEN 4 5
GASTF	ROPOD8			Rare	
10 2 10 40	Dense 1 M WWW.	Moderate  2 2 3 3 3 4 4 4 5 5 5 6 6	Sparse 1U 1M 1L 2 2 2 3 3 3 4 4 4 5 5 5 6 6 6	1U 1M 2 2 3 3 4 4	IL 2 3 NOT PRESEN 4 5 6
FUCUS 1U 2 3 4	Dense	Moderate 1U th	Sparse 1U fM 1L 2 2 3 3 4 4 4 5 5 5	Rare    Mare   1M   1M   2   2   2   3   3   4   4   4   5   5   5   5   1   1   1   1   1   1	IL 2 3 NOT PRESEN 4

1 See Offer 2 Religie Comments - in breed in y plummage.
1 Gluerious - wing Guil Dear on Ingot
5 Barrow's Goldeneye U-unidentified Murine birds
4 Tuffed Puffin
Ecological Considerations: Wildlife Observations/ General Comments:
1 Sec Offer 2 Religic Comments

64- Special Use Destination

16 · Salmon Stream

SEGMENTISTY N 31 SUBDIVISION & LENGTH BIOLOGIST Crank P9 3 of 3

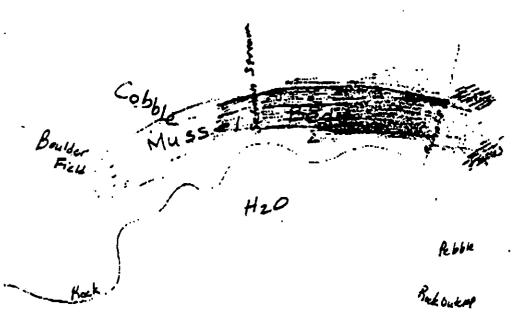
DATE 1/1/40 TAME (7610 - 0910 TIDE NEIGHT + 2 >+ 3 ft

1. BEDROCK 2-SOULDER 8-COSSLE 4-PERSLE 8-SAND 8-SILT

FLORA:

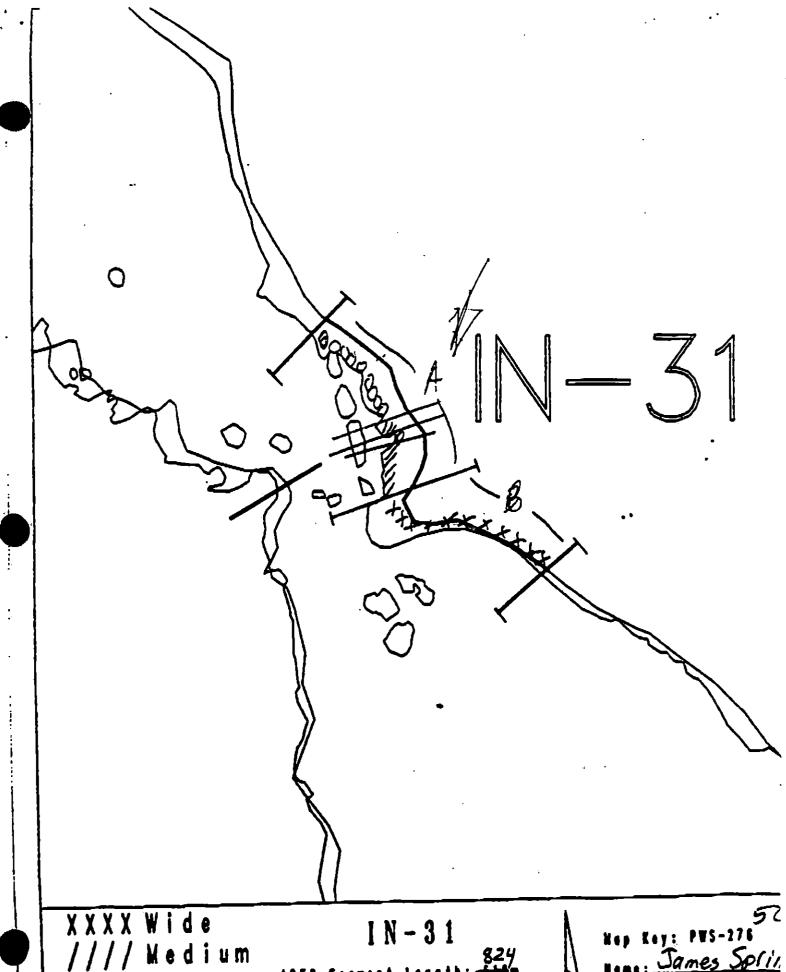
64(XE)	<b>UTZ</b>	MITZ	Ui3	COMMENTS.
	ŕ			
BORSIELLACONALLINA		L	<u>L</u>	
CALLIARTHRONCORALLINA				
CLADOPHORA BPP				
COSTARIA SPP			L	
ENDOCLADIA MURICATA				
PLANENTOUS GARDIS				
FILLMENTOUS ACTS				
GLOIOPELTIS RURCATA		321	72	
ALOSACCION OLANDIFORME				
LANSVARIA SPP				
LITHOTHANNION				
NEMSOCYSTIS SPP				
PORPHYRA PP			1	
RALPHRIAHLDENERANDIA				
RHODOMELA LANCK		12		
RHOCOMENIA PALMATA				
SCYTOSIPHON SPP	Ì		1	
LEVA ESP		1		
ZOSTEAN MAISMA		T		
ANTHOPLINA SPP				
(SEM) BALLINUS CAMORUS			2	
B. BLANDULA	/2.5/	12.54	NW	
BRYCZCAHS		1		
CHITCHS (OTHER THAN K, TUNICATU)		1		
CLAUS	$\overline{}$	545	144	Secidence However Description of the
PARK	_	<u> </u>		
CHANASTERMS IMPRICATA			1	
KATHARINA TUNCATA		╅	1	
EPTASTENAS HEXACTIS	$\vdash$			
A A PORTS		11/1	1234	
UTTORINA SP	12 10/6	11345	121×1	
NUTELLA SEP	1			
PAGUNES ST	1	Τ_	I	
PIGASTIER OCHRACEUS	1			
POLYCHAETES	1	<del>                                     </del>		
TO KOPODA HELANTHODES	1	1		
SEARLES CHA	Η-	15ह	134,	
SEASON DAY	┼─	╅┸	† <b>-</b> *	
SPHONARIA THEFETTES	┼	+	_	
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TELLA	╄━~	<b>}</b>	12	I Index south
Echina yarm	╂	+	15	111111111111111111111111111111111111111
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Mine & Ja	╀	<del>                                     </del>	14	in Aux
Lunatic lewisii	<del> </del>	╄	142	Cense Sand Cultura
		•	*	

FAUNA:



# Comments

- -The LITZ and MITZ are a rich Saxidomus: Biototheca clara bed. Within the clambed dense concentrations of Indating gastioned, Littoria, Paguras, and various worms. Killorina, Mucello and Kunetia say cases are deser.
- Freue is in a discontinuous band along the MiTZ cobble.
  There are 2 dense patches (= 3 m2) in MTZ 345 with high rurridment.
- There is a 150m x 30m Interpreved/bobble mused bed. Concentration is imposses on the most in in end but increases its dense on the southern and. Morthum and nu him, travely queried upon by Predaling queries.
- Barnacles are a minor portion of the biole in the subdivision hecruitment is only evident on the bedrock and then in moderate outerops. Concentrations. Icarring is present or Kock
- This area appears healthy and precontinuous measures it will be taken to avoid damage to the well established excepter.



XXXX Wide IN-31

/// Medium

--- Norrow ABEC Segment Langth: Stem

TITT Very Light In Item 200 300

Bette: 4/7/90

WETERS

# ADDENDUM: SUBDIVISION CONSTRAINTS

SEGMENT IN-31 SUBDIVISION A (1 of 2)

## **WORK WINDOW**

Manual Pickup* Tarmat Removal

CLOSED

*EXXON 'A' STUDY SITE #AP-4 DO NOT REMOVE STAKES FROM BACK OF INTERTIDAL ZONE

### ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

### APPLICABLE ECOLOGICAL TIME CONSTRAINTS

1A.1B Salmon Stream An ADF&G catalogued anadromous stream is present within

Subdivision A (226-10-16916). No constraint to manual

pickup and tarmat removal.

**Baid Eagle Nest 5T** 

USFWS 6/1/90 map indicates an active nest in Subdivision A. Closed to manual pickup and tarmat removal within

400m of active nest. No constraint to manual pickup and

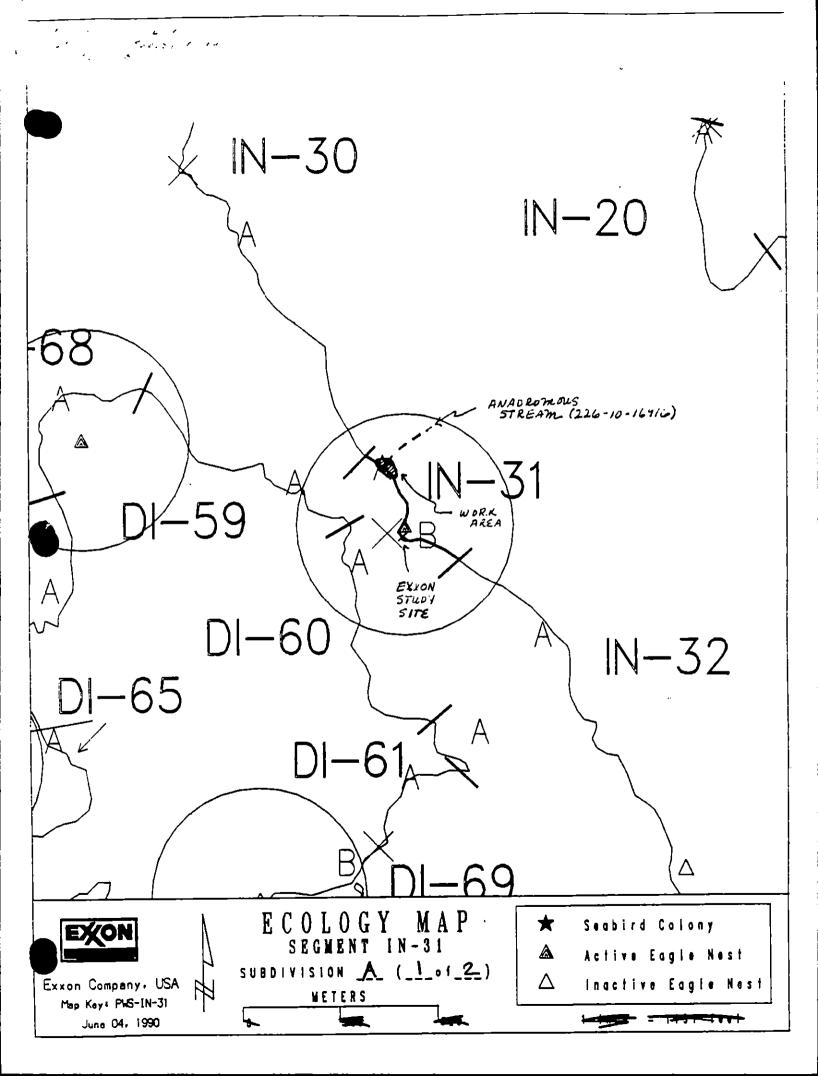
tarmat removal more than 400m from active nest.

### OTHER ECOLOGICAL CONSIDERATIONS

If eagle nest constraint is removed, other ecological considerations will apply.

Prepared by

Date



# ANADROMOUS FISH STREAM EVALUATION ADDENDUM

# CONSTRAINTS FOR STREAM NO. 226-10-16916 SEGMENT IN-31 SUBDIVISION A

# WORK WINDOW Tarmat Removal ★ Manual Raking CLOSED

* EXXUNISTUDY SITE AP-4 - DO NOT EZMOVE STAKES FROM BACK OF INTERTIDAL ZONE

# ARCHAEOLOGICAL STANDARD CONSTRAINT

if cultural resources are uncovered, PHONE 564-3274.

# APPLICABLE ECOLOGICAL TIME CONSTRAINTS

1A.1B Salmon Stream

ADF&G catalogued anadromous stream (226-10-16916) is in Subdivision A. No constraint to tarmat removal and manual raking.

5T Bald Eagle Nest

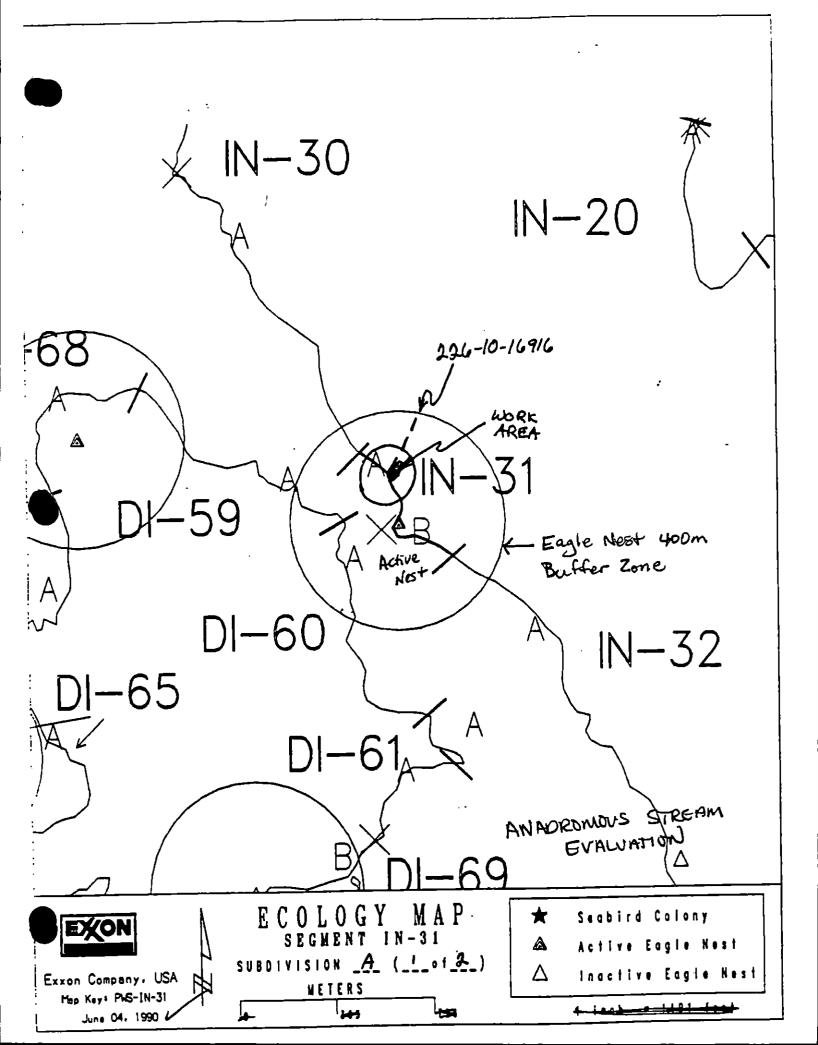
USFWS 6/1/90 map indicates an active nest in Subdivision A. Closed to within 400m of active nest. No constraint to more than 400m from active nest.

## OTHER ECOLOGICAL CONSIDERATIONS

If eagle nest constraint is removed, other ecological considerations will apply.

SEE SUBDIVISION CONSTRAINT ADDENDUM IN-31A FOR ADDITIONAL CONSTRAINT INFORMATION.

Prepared by ... Philips Date 6/10/90



# SHORELINE EVALUATION

SEGMENT ST/ IN-31 SUBDIVISION B (2 OF 2) DATE 4/7/90
SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS: 6Y Recreation: Special use destination No specific constraints identified.
SUBDIVISION ECOLOGICAL CONSTRAINTS:  Avoid any unnecessary disturbance or damage to unoiled biota and substrate.
SHPO SIGNATURE: $\int M^{2}/M^{2}$ DATE: $\frac{4/z^{3}/90}{}$ .
OILING CATEGORIZATION:
Wide 283 m: Medium 0 m: Narrow 0 m: V.Light 0 m: No Oil 0 m Subsurface Oil Observed: Yes X No Maximum Depth 15 cm
RECOMMENDATIONS:
No Treatment Recommended  X Treatment Recommended  X Manual Pickup  Bioremediation  X Tarmat:  Breakup  X Removal  Snare/Absorbent Booms  Oil Snares (pom poms)  Absorbents (pads,rolls,etc)  Spot Washing:  Wands  Beach Cleaner  Other (see comments)
comments: Recommended treatment includes 1) manual removal of tarmats.  2) manual pick up of tarballs, 3) bioremediation of areas shown on attached sketch map. No specific constraints for performing work.
TAG COMMENTS: MONITORS TO MSSESS FENSIBILITY / MEED TO BIOREMEDIATE THE CONST/CONT ON THE TWO SMALL ISLANDS
TAG APPROVAL DATE: 4/23/90  ADEC ART WEINER Not Clemis  EXXON And Test Stall Fosc: DATE: 4-17-90  NOAA Jepon Talket Clamb

# PWS, SEWARD AND HOMER ECOLOGICAL CONSTRAINTS

1 <b>A</b> 18	Salmon stream mo No disturbance of s	buth - fry outmigration (3/1 to 5/15) buth - spawning (7/10 to 8/31) stream bed or banks unless authorized by ADF&G. No beach flushing into stream drainage, or other chemical application within 100m of stream. Contact ADF&G Habitat Division prior mits.									
1C	Salmon fry nursery	rama (4/31 to 7/31)									
1D '	Esther Hatchery release (4/15 to 6/1)										
1E	Main Bay Hatchery	Main Bay Hatchery release (4/20 to 5/10)									
1F	Sawmill Bay Hatch	Sawmili Bay Hatchery release (4/15 to 6/1)									
1 <b>G</b>	Cannery Creek Hat	Cannery Creek Hitchery release (4/21 to 6/1)									
1H	Plamote rolease site	Remote rolease site									
11	Gill net area (6/71	Gill net area (6/7 to 8/31)									
1J	Purse seine area (	7/20 to 9/30)									
1K	Pursa seine hook-o	off (7/20 to 9/30)									
1L	Set net sites (6/11 to 7/25) For Codes 1C through 1L contact ADF&G for specific dates, locations and constraints.										
2M	Herring spawning (4/1 to 6/15) Restrict boat traffic to essential minimum. Avoid damage to unoiled intertidal and subtidal algae and seagra Contact ADF&G for specific dates and locations.										
3N, 3P 3O, 3Q	Harbor seal and sea lion pupping (5/15 to 7/1) Harbor seal and sea lion molting (8/15 to 9/15) Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 8 horizontal and 300m vertical distance from haulouts.										
5R	Seabird colony (5/1 to 9/1) Restrict air traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300 vertical distance. Contact ADF&G and USFWS prior to treatment.										
58	Shorebird/waterlowl concentration (4/1 to 5/15) Restrict all activity to essential minimum, especially air traffic.										
<b>s</b> ī		nests (3/1 to 9/1) essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from ly; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to									
6U	Recreation:	Tent sites (6/1 to 9/15)									
<b>6V</b>		Anchorages (6/1 to 9/15)									
6W		Forest Service cabins (6/1 to 9/15)									
6X		Lodge (6/1 to 9/15)									
2-6Y		Special use destination									
	O. h	Colones bequestion of the a C (00)									
72	Programmes 8.88;	Salmon harvesting (5/1 to 9/30)									
7 <del>1121</del>		Finfish harvesting									
71		Deer harvesting (8/15 to 2/28)									
<b>7.</b> JJ	For Codes 7Z through	Invertebrate harvesting gh 7JJ contact ADF&G and Chenega Corporation for specific dates, locations, and constraints.									

### FIELD SHORELINE COMMENT SHEET

	SEGMENT ST / EN-31	SUBDIVISION;	<u> </u>	DATE 04/07/90
	USCG NAME <u>AEC Vandepels</u>	SIGNATURE_	AEC 2	anderel
	OMMENTS	NDED 🔀 T	REATMENT	SUGGESTED
	I suggest picking	p tar mat.	s hot	water wash,
-	till + bio. of th	e /3 x /00	band	in this sub sec
				•
	ADEC			
	NAME Michele Base	SIGNATURE_		ran
	OMMENTS  This area should he characteristics of	NDED TO T are a secon the sub-second tre	REATMENT md op/ gment atmen	SUGGESTED  nion dire to the  We discussed  to which have been  to addition.
	of the outer sund	a band va	rying fr	om CV-CT of IM is vidth lesson the Is vidth (below the Is noval of patches and LITZ is very rich and and C surrunding
	LAND MANAGER NAME DAN LOGAN	•		
,	NO TREATMENT RECOMME COMMENTS	NDED T	REATMENT	SUGGESTED  L recreational value
م <i>ا</i> ر	each. This area slow escure renestrity lie	t, Evert	for the	e western most 50 M
4	which is a callerage	uldes and	meet 2	le / assuel / send
	Attate, 3he mid/la petropad production and	ur intertiela L maderati	l gove . to ligh	to bornele denity.
Ĩ.	starting at the	. appreniment	e loca	than of she MI/F.
	20.9 TA22	OT	SOVIES SITS	HPR-89-1990 08:00 FROM AR

I recommend this area to be treated by breaking up the airbalt most by houd, removing the ailest material, then apply fertilizer. This procedure should be done only after the area has been should by an archaeologist.

Immediately southeast of the asphalt section is 15 m x 20 m of broken cover which can be easily recognized from the water. The cover appears to be stable and is above mean high tide. I suggest a review of the regnet and one of the following three alternatives selected:

ARTERNATIVE 1 - NO TREATMENT

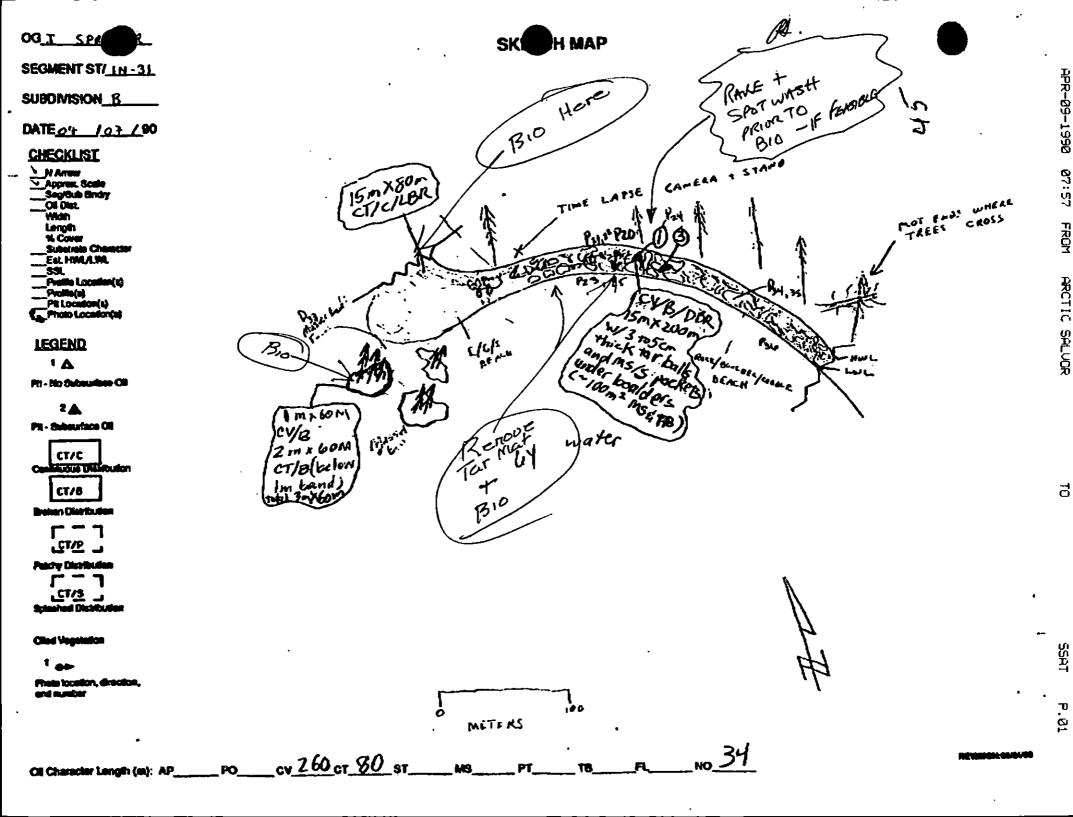
The advantage of this alternative is the oil appear to be stable at this time and no further disturbance would elininate the risk of oil moving into the mid-intertiolal year. The discolventage is that on this low energy beach the oil will remain visible for several years.

ALTERNATIVE 2 - REMOVE DILED MATERIAL

PRNATIVE 3 - HOT WATER WASH

a lot water, high presure work of 150°F or greater will be necessary to break down the stable coat. The lot water work will convert the stable surface oil to a liquid which approximately 10% will be recovered. This attendies will remove the oil from the visible surface but about he evaluated against the effects of lot water (150°F) on intertiolal sealogy. The transport stable surface oil about also be emidered. The 150°F water temperate about the surface oil about the surface oil about the surface oil about the surface of stable surface oil about the surface oil about the surface oil about the surface oil about the surface of standard also be emidered. The 150°F water temperate

I recommend alternative 3 as whis will have the least effect on upper and supraintentiable geomorphology while significantly reducing with sit. If whe work is anothered during a plus 4 tide ar greater the movement of sil to lower intertiable your should be reduced. The movement of substituted your should be further reduced by continueting a 20cm slitch at the 4 fast take mark. The 150°F hat water would possibly be mitigate by reducing the total water value sprayed at one time to allow subtished water to durinte fight temperature faster. This area should have 51 an archaelogical clearance prior to any stutubance,



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Segment ST/IN 31 Subdivision B Date (mo / day / yr) 4/7/90 4/8  Time (24 hr) 69/0-1045 Biologist Crank Tide Heights +5 -> +8															
Time (	24 hr )_0	1910 - 10 120 - 08	<u>45</u> Biok	gist	ran k	·					Lds_+5	5 <del>→+</del> 9			
(A)	Substra	ate type	and % of	segme Boulde	nts: er	(3) Co	bble	(4)	Pebble_	(5		<del></del>			
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(C)	vertical	y, substra I zonation es / adult	n of majo	r taxa:	(upper-	U; mid-	A, abov M; low ti	e), & dal-L);				ST-5-4			
BARNA	BARNACLES  Dense Moderate Sparse Rare														
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Wildlife - Har b 2- Offer: 5- Glavin	or Sa	J-Ad		16	nts: but uni -Corm Tufte	arents	l Marina ins	لـن8							

64 - Special Use Destination

There is high tenting potential for this area

46

'Ecological Considerations:

SEGMENT:STI 11131 SUBDIVISION B LENGTH 374 BIOLOGIST Crank :

DATE 4/2/40 TIME 0910-1045 TIDE HEIGHT 15-1851

1-BEDROCK 2-BOULDER 3-COBBLE 4-PEBBLE 5-SAND 6-SILT

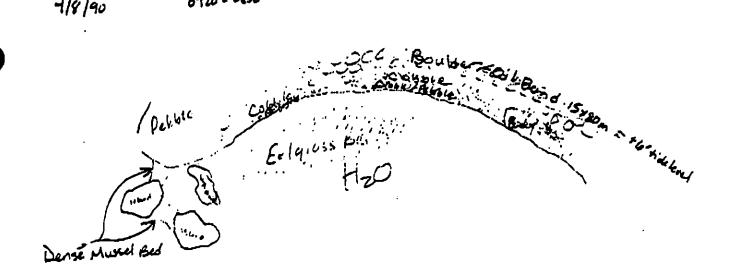
pg Z of 3

FLORA:

FAUNA:

&PECIES	UIZ	MITZ	<b>L</b> IZ	COMMENTS
BOSSIELLA/OORALLINA				
CALLIARTHRON/CORALLINA				
CLADOPHORA 8PP			<b></b>	
COSTARIA SPP			<b> </b>	Drift
NDOCLADIA MURICATA			L	
FILAMENTOUS GREENS				Dense on MITZ cobbil
FILAMENTOUS REDS		24	14	
SLOIOPELTIS FURCATA	11	123	┸	
ALOSACCIÓN GLANDIFORME		123	12.5	
AMINARIA SPP			L1	in drift
LITHOTHAMNION	Γ	13	13	
NEREOCYSTIS SPP				
ORPHYRA SPP				
RALPHSIA/HILDENBRANDIA		32		
HODOMELA LARIX		173	123	
RHODOMENIA PALMATA		1234	1234	
SCYTOSIPHON SPP				
ULVA SPP		<u> </u>		
ZOSTERA MARINA		Ι		
Cryptosiphonia	匸	127	16.8	
C. Alexander		<u> </u>	<u> </u>	
		Ι	<u> </u>	
		Ι		
anthopleura SPP			<u> </u>	
(SEMI) BALUNUS CARIOSUS		_	12	
B. GLANDULA	1234	1234	:2.34	
BRYOZOANS		<u></u> ;		
CHITONS (OTHER THAN K. TUNICATU)	T			
CLAMS		345	345	High Clan Production
CRABS		34	34	Hemigrousus
DERMASTERIAS IMBRICATA	1	2	- 3	
KATHARINA TUNICATA	1	1 2		
LEPTASTERIAS HEXACTIS	<del> </del>	34	34	Brooding - Dense
LIMPET8	134	12745		
LITTORINA SPP		2345		
NUCELLA SPP		224		
PAGURUS SPP	1		345	
PISASTER OCHRACEUS	1	1	1	
POLYCHAETES	<del> </del>	1		
PYTHOPODIA HELIANTHOIDES	+-	<del>1.                                    </del>	242	Rense
SEARLESIA DIRA	+	1234	234	
	+	+**	+	
SEAPULIDS	┿	┿	+-	
SIPHONARIA THERSITES	╫╼	╬┈	┿	
TEALIA	┿╌	<del>1,,</del>	+.,-	<del> </del>
Juvenile Enla	<del></del>	34		
Metridiums	<del> </del>	<del></del>	14	The land = Same Con Source
ERI GRESS	4	<del></del>	345	
Echiusa	<del> </del>	<del> </del>	45	Dense Send Collans
Lunatia		┷	45	Dense Sand Collegs
			•	

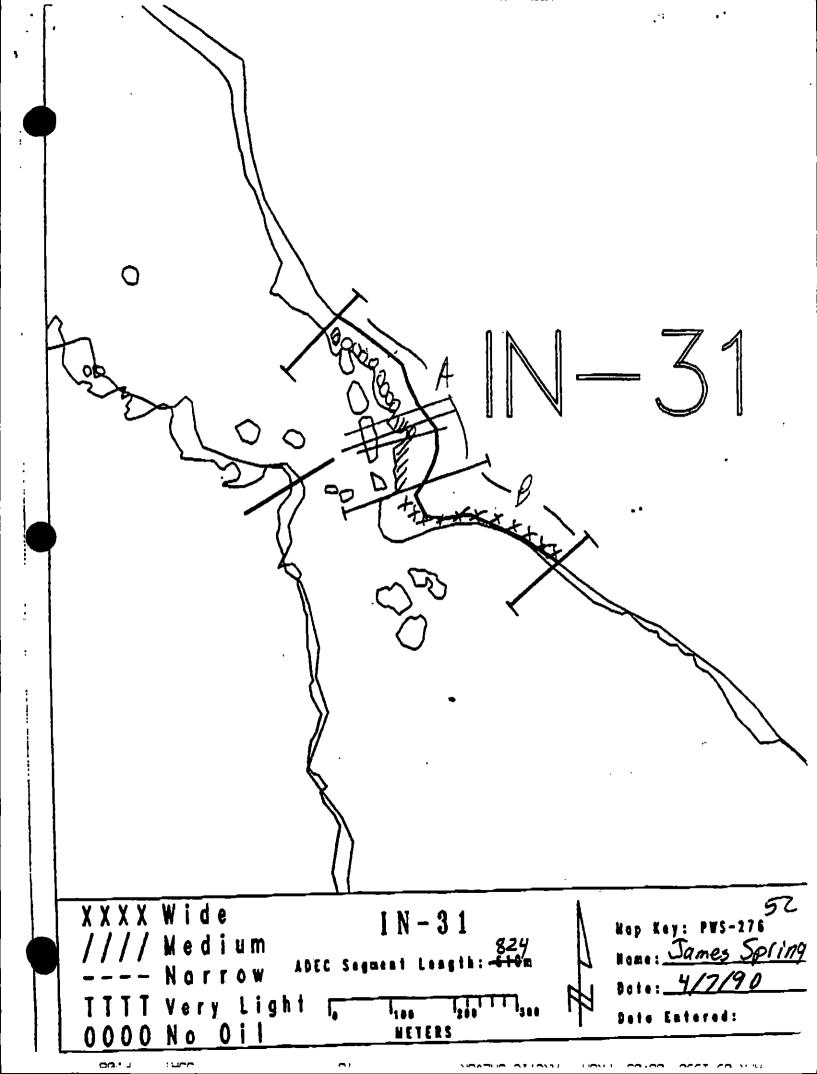
47



Comments

- Subdivision has rich flora/faura community below 3 4+
- Airectly below oil band in boulder juild, Filamenton 1920. I dominate the 13 to 15 ft. range.
  - LITZ is a clume but, stilliged by often.
- There is a 80 x 30 m religious land (injures to minderate -- by,
- area has high is is to not presented.
- That were possible intrological Site?
- To protect LITZ any work line in the wife it wild be performed at +4 or higher; taking pricoutions not to contaminate claim bedo.

48



### ADDENDUM: SUBDIVISION CONSTRAINTS

SEGMENT IN-31 SUBDIVISION B (2 of 2)

	WORK WIN	IDOW	
Manual Pic	kup 环		
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Bioremedia	ition	CLOSED	
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* EXXON 'A' STUDY SITE # AP-4

DO NOT REMOVE STAKES FROM BACK OF INTERTIDAL ZONE.

### ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

#### APPLICABLE ECOLOGICAL TIME CONSTRAINTS

5T Baid Eagle Nest

USFWS 6/1/90 map Indicates an active nest in Subdivision B. Closed to manual pickup, tarmat removal, and bioremediation within 400m of active nest.

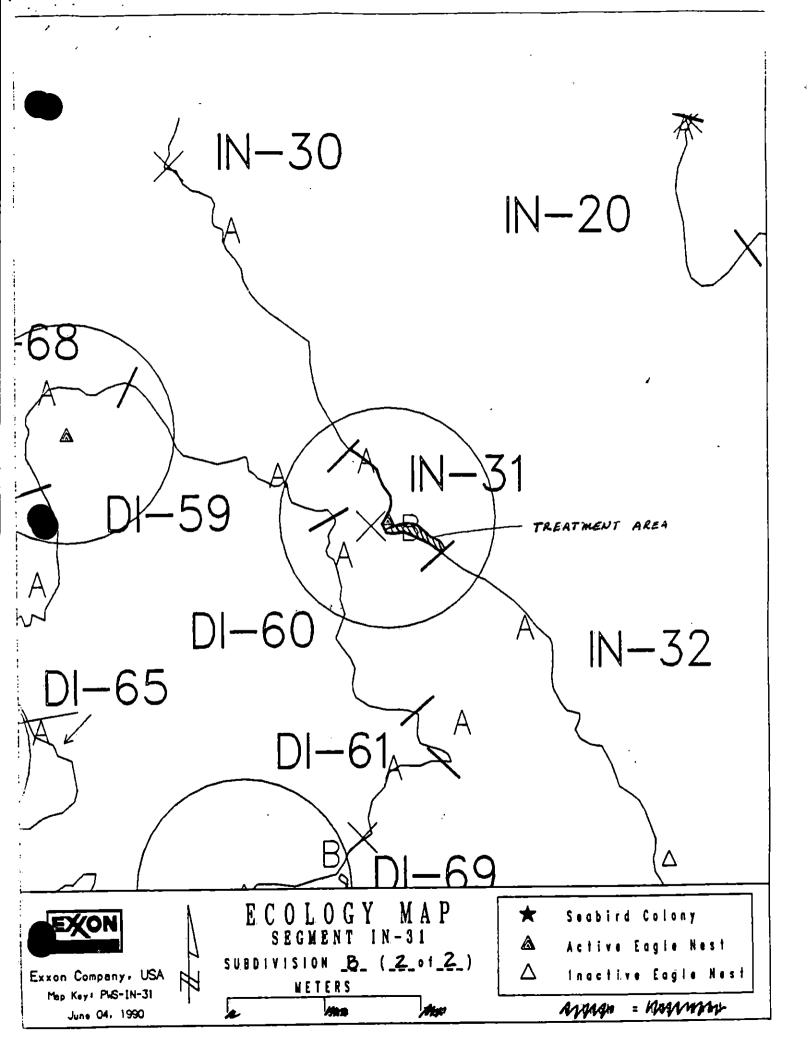
#### OTHER ECOLOGICAL CONSIDERATIONS

If eagle nest constraint is removed, other ecological considerations will apply.

Prepared by Prepared by Date 6-10-90

Date 6-10-90

Date 6/10/90



### SHORELINE EVALUATION

SEGMENT ST/IN-32 SUBDIVISION_A (1 OF 1) DATE4/7/90
SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:  5T All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)  7II Subsistence area: Deer harvesting (8/15 to 2/28)  See attached Ecological Constraint sheet for specific constraints and contacts.
SUBDIVISION ECOLOGICAL CONSTRAINTS: Avoid any unnecessary disturbance or damage to unoiled biota and substrate.
SHPO SIGNATURE: Mula 3 Hoha DATE: 4/20/16
OILING CATEGORIZATION:
Wide 34 m: Medium 50 m: Narrow 760 m: V.Light 1526 m: No Oil 0 m Subsurface Oil Observed: Yes X No Maximum Depth 10 cm
RECOMMENDATIONS:
No Treatment Recommended  X Treatment Recommended  X Manual Pickup  X Bioremediation  X Tarmat:  Breakup  X Removal  Snare/Absorbent Booms  Oil Snares (pom poms)  Absorbents (pads,rolls,etc)  Spot Washing:  Wands  Beach Cleaner  Other (see comments)
COMMENTS: Recommended treatment includes 1) manual removal of tarmat, 2) manual pick up of oiled debris, 3) bioremediation of areas shown on attached sketch maps. Work should be conducted after 6/1 based on eagle nest constraints after the approval of ADF&G and USFWS regarding eagle nest.
TAG COMMENTS:
TAG APPROVAL DATE: 4/26/20, ADEC ART WEIGHT AND LEAST EXXON AND THE FOSC: DATE: 4-26-90  NOAA 3.1 Wescott Bullicular Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control o
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### PWS, SEWARD AND HOMER ECOLOGICAL CONSTRAINTS

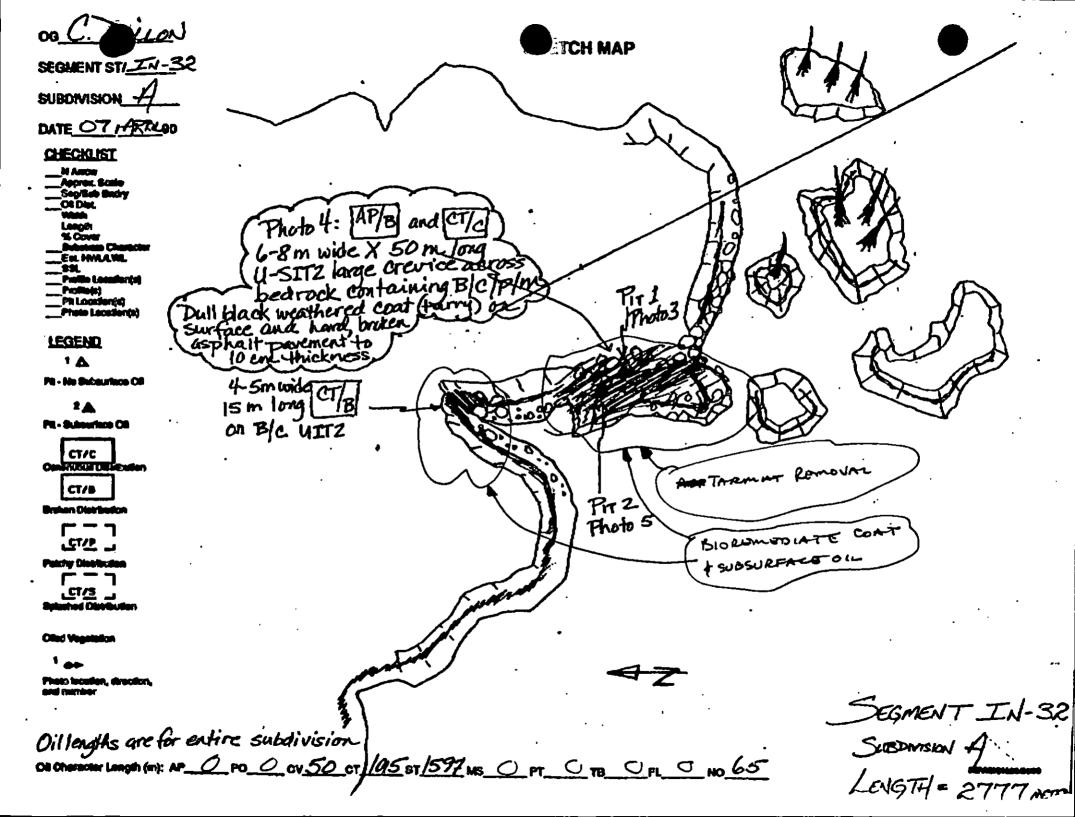
1A 1B	Seimon stream mour	th - fry outmigration (3/1 to 5/15) th - spawning (7/10 to 8/31)
	No bioremediation or to treatment for perm	eam bed or banks unless authorized by ADF&G. No beach flushing into stream drainage, rother chemical application within 100m of stream. Contact ADF&G Habitat Division prior nits.
1C	Salmon fry nursery a	rea (4/31 to 7/31)
1D ·	Esther Hatchery relea	tee (4/15 to 6/1)
1E	Main Bay Hatchery n	sleane (4/20 to 5/10)
15,	Sawmill Bay Hatcher	y release (4/15 to 6/1)
1 <b>G</b>	Cannery Creek Hatch	tery release (4/21 to 6/1)
1 <b>H</b>	Pernote release site	
11	Gill net area (8/7 to	5/31)
1J	Purse seine area. (7/	20 to 9/30)
1K	Purse seine hook-off	(7/20 to 9/30)
1L	Set net sites (8/11 the For Codes 1C through	o 7/25) th 1L contact ADF&G for specific dates, locations and constraints.
2M		/1 to 6/15) essential minimum. Avoid damage to unoiled intertidal and subtidal algae and seagrass, pecific dates and locations.
3N, 3P 3O, 3Q	Harbor seal and sea Restrict boat and air	lion pupping (5/15 to 7/1) lion molting (8/15 to 9/15) r traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m vertical distance from haulouts.
5R		to 9/1) ssential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m intact ADF&G and USFWS prior to treatment.
<b>5</b> \$		concentration (4/1 to 5/15) essential minimum, especially air traffic.
<b>AFT</b>	All Baid Engle nests	
		ssential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to
<b>6U</b>	Recreation: 1	Tent sites (6/1 to 9/15)
6V	,	Inchorages (6/1 to 9/15)
6W	ı	Forest Service cabins (6/1 to 9/15)
6X	l	.odge (6/1 to 9/15)
64	\$	Special use destination
<b>7Z</b>	Subsistence area:	Salmon harvesting (5/1 to 9/30)
7HH	ı	Enfish harvesting
<u></u>	t	Deer harvesting (5/15 to 2/28)
7.JJ		nvertebrate harvesting  17 JJ contact ADF&G and Chenega Corporation for specific dates, locations, and constraints.

## FIELD SHORELINE COMMENT SHEET

	SEGMENT ST / IN-32-A SUBDIVISION:	<u>A</u>	DATE_ <u>4/8/90</u>
	NAME DAVID A. SCHNEDERSIGNATURE  INO TREATMENT RECOMMENDED  TREATMENTS	wid A.	Schneider
	OMMENTS TREATMENT RECOMMENDED	TMENT SUGG	RESTED PSS/USCER
•	The bedrock platform in the SE come	To Alli	livision A will Remark of thinks
of	small cobble, pebble & sand surface s	reasures.	o bedrock platform
	The tedrock platform in the SE corner require extensive manual cleanup in small cobble, pebble & sand surface so should be carried out. Remaining tare scrapped from all rock and I boulder	surfaces.	should be manually
	ADEC POTET MONTESANOSIGNATURE TE	<b>A</b>	٠
	OMMENTS the ones to the North and of Map	TMENT SUGG	ESTED are similar to
	under and around the larger Surface metric Bio Carlidates after considering desirry and condrhying at the South end of IN-32A is a Sadde Bedrock formation. This I Suddle slopes down Ex-	als. Addition bedrocks. Jugot between Tugot	and a large shouline
	of moussay perversion was located (pit = 1) who the areas aring. This should be expect and/or to by Pit = 2 in to the terred/pared	ich is not in the A	new is best characterize requires extensive
	Side wall. I do not recommend freetment on the black on he black on the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of the black of th	stony with st to the AN of extles Past	the Soldhe. The SBL Court is
	☐ NO TREATMENT RECOMMENDED ☐ TREA COMMENTS	TMENT SUGG	ESTED AND ALSO
	Such end of subdiresion for some last. Es	nëve pa	in peno er

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PIT	PIT DEPTH (cm)	S	UBS L CH	URI	ACI		NT.	HLEC	AL.	BEL	OW	OI	. / Fi	LM (	col	OR	5 M	P	YT WE	ns	- to	te:	SEDII SEDII	RFA	CE
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Segment ST / IN 32 Date (mo / day / yr ) APRIL' 7 1990 Subdivision JIM BARRY Langth 2777 Time ( 24 hr ) Substrate type and % of segments: (A) (1) Bedrock 20 (2) Boulder 70 (3) Cobble 9 (4) Pebble / (5) Sand _(6) Sat Overall % cover of biota (% of segment): Dense 20 Moderate 70 Low 10 (B) Density, substrate preference (by number from A, above), & Photographs: (C) ST-6-5 Roll No. vertical zonation of major taxa: ( upper-U; mid-M; low tidal-L.); juveniles / adults (X) , new settlement (3) Frames_ **BARNACLES** Rare 10 **1M** 1 1L 2 2 2 2 2 3 NOT PRESENT 3 5 5 MYTILUS Dense 1L 11 1U **1M** 2 2 2 NOT PRESENT 3 3 5 6 GASTROPODS Rare Sparse Dense 10 1M 1L **1M** 10 2 2 NOT PRESENT 3 3 4 5 5 S **FUCUS** Ram Sparse Dense 1L 114 1L 10 1M 2 23 2 2 NOT PRESENT Wildlife Observations/ General Comments: COMMON MERLANSIA BALD SAGELS . 4 PIGEON GUILLEMOT - 10 BARROWS GOLDSMENE crows - 6 SU 07724 - 3 PSLAWIC CORMODIANS -5 beneous. where bull GOLDEN SALLE COMERS -. 1 **Ecological Considerations:** - Deer Howester 711 1) EEL GAMS BLOS & CLAM BLOS AND UNLIKELY TO BE DISTURBED BY CLEANING OFCERTIONS A Dear knowstay will bould not be distuiled by cleaning opnions

# I General Comments.

A. This segment contains only I subdirector, in which there is a gradient from a highly exposed this angle bedrock (headland out south end) to a pretested colothe (getble beach. The change in wave exposeers and substratum type abor is accompanied by a set shift in species composition.

B. Effects of oil are less indent than in other signed. Oil deposits are mark mainly restricted to the upper and super title joins.

HABITAT CHARACTERISTICS

A Headlands and exposed cliffferes.

these habitats generally one occurred by musich I most abordant along beadland area), barnacles (large and small a cosm barnacles), mediate to occosionally high sastropool himite, and see stars. Mains plad flants include moderate to dense Fixens densities: as well as high cover of tilamentous and bladelike red algae. Kelps and other blade-like brown algae are alreadynt in the, shallow subtidal.

B. Coloble and boulder covered beaches. He then hobitato beach a relatively sperce cover of suissels (or no muscles in term (ares), but have high cover of small acom barnacles. Lea stars and very abundant in the extreme how outsided anoth smallow solts dad. Fiveres and other alega are similar in distribution to elif hobitats, and of green and ned plainentous algae occasionally have very high cover. Many tiles along the transact have high numbers of largety claim shells from serveral species. Some of these species are present in the sidemants as juveniles - adults are likely assessed in the thollow subtidal symm. Finally. Set grass heds are alreaded along the transact and may be used by hereins for species of puposes.

## III MAJOR SPECIES

A. BARNACIOSLarge acorm barnocles (Semibalanes caussus) on dere in the middle intertable along headlands + wards the bouttien and of the Arguiett. Compared to series of the siles 41 at engueral high oling and interior clean up a chorby, these barnocles appear to large leen much limit distribut.

- B. Phytolas Bussels are abundant in the upper to aniable yone of exposed headle at the southern with the regiment Brythese californians, the california Music is present, as well as the bay somewall. Att The cover of somewalls or spouse over the remainder of the Segment and muscle are restricted to linguisheders and bedrock.
- C. Gashopods Littrenic snouls (Perworkeles) an less abundant than on many other signents, but still be present in space to moderate densities. Wheles be very abundant, with densities of 30 a more per in one some bedrock faces. Limits are moderately abundant. The pulmonate snail september is occasionally dense along the segance
- D. FUCUS FUCUS was abundant all along the Segment, but less dense then on other syment. It was present on all tulttratum types, but space a race on small cubble and publica

IV Other Specie

see somes - Sea stans were fant-enterly abundent olong the extreme 10 w your and shallow sultidal. Leather stars (Dumertonics), sunflower stars (Pyconopodion), and were the 2 most dominant years. Pisanter ochrocers, which field on barracles and mustels, also was common.

Clams. Several species of clam shells were present along the shore and could be seen littering the bottom in Shallow not waters.

Algae - Large stipstate brown algae densely populate the subtotal

El Grass - Ell grass is present in the shallow substal your closes the protected and (worth) of the syment

V wedlife Observations

Several species of books were observed in the areas of loss so Common Augusta Glaucous - warged gullo Bearous Edunga Pelgre Commonants Crow Pigeon Coullamot Favor Bono 20665 -

See other also were present - 3 to 5 One hold eagle sheleton was frundand beach in the segment.

A, MARINE PLANTS

DIATOMS/DIDE GREEN AZERE MIZZY

DEREN MIZZ - CHROROPHITA

Acrosiphonia / Spongomorpha MZ3

Cladophona 612

Butomorpha 5123

Ulva 5123

Buen Court ( ) R1

Urospora MZ3

# SPAC OR JOLUMILES
D DEMIC
M MODERATE
S SPORCE
R RARE
1 BEORDER
2 BOULDER

3 COMBLE 'Y PEBBLE G SAWA

.3) RED ALGAE - RHOODPHYTA

BOSSIELLA 74 512

CALLIARTHANN 9. 512

CHARLINA 79. 512

ENDOCLIOIA MUPICAL 512

ILALOSACLION JONAIGORME MISS

IRIDAEL 86? 5 5012

Cryptosiphonia 70 mis

MASTDERRUS 59. 512

MEMBRANOPTERS 59. MIS

MICROCLASIA? MIS

LITHOTHAMNION PURILIUM 512

PETTOCELIS MISLANDERLI BSIS

PERPHYRA 90 1000 512

RHODGMELA LARSY MIS

RHODGMELA LARSY MIS

RHODGMELA LARSY MIS

## II SPECIES LIST (CONT).

- PROWN ALDRE. - PRATOPATA (USANHALI)

- ALARIA MERGINATA - MIZ U

COSTARIA SIP BIZ U

AGARLLIM AT - OUL

HELDENBRAHDIA MI

LAMINARIA SIP BU

PUEUS DISTICHUS MIZ

SUSTOSIPHON lamentana - MIZ

RALIGIA SIZ

5) HIGHER PLANTS
ZUSTEICA MARINA - CEL gross mu

### B MARINE INVLATEBRATES

- 1) Stoness torifera tettys upp - Redformy Bull spunge 123 Helisanca sucm? - yellow brown spunger 523
- 2) Julyhole/America / Corals Bridain
  - 1) Hydroids Over Hydroids Senteteridae - Sentetarella? : RI.
  - 2) Hytrocorole Order Stytanlerine Allepara perphyra RIZ
  - Anthopleva elegantisima 512

    Anthopleva elegantisima 512

    Anthopleva Siz

    Anthopleva siz
- 3) Chenopheres Beroe 97.7 R ocumente
- 7) FLATULEMS PLATY HELINATHES 2 combines spp. RES
- 5) Annelid Worms
  Polychetter.

  Nererdei MIZ

  Nepthyder MIZ

  Scryulider Scryuler MIZ7

  Crecique M. MIZ3

  >prorbider Spirosbis gniz3

## B. MARINE INVERTEBRATES (COMT)

- 6) Echiuran Warans Weenei Worms Echiurus Echiurus B.23
- 7) Sipuneulid Werms Peaned Worns
  Phascolosoma agassisis 223.
- 3) Molluscs.
  - a) CHITONS POLLPHICOPHERA

    Katherine tunicate 512

    Tomicella lineata RIZ

    Mapalia Typ. RIZ

    Lenkurum typ or punishe RIZ3
  - b) Snails Gastropods
    Listorina sudulata miz
    L-sithane miz
    Nucella lamellosa m.o. 12
    No emarginata miz
    Searlesia dira m.z.s
    ? Amphissa columbiana 523
  - C) Limputs Acomaca mitra R12
    Lothe digitalis 912
    L. persona 512
    Tectura Sculum 1923
    Tectura Sculum 1923
    Tectura Senestrata R12
    T. persona R12
    Siptemaria thereites M12
    Diadera aspera R1
    - D) Mussels.

      Mytolas edulis miz

      M. colifornianus Ri
    - e) Claus

      Jingh Padodosmus cepio 512

      Histolla yr R123

      Prototheca stuminea R23

      Macoma pp R23
    - 5) Rudibrancho Lemallidario fusca priz

- F) Crustaceoms

  i) BARNIKLES Chregedia

  Semibolomus eurosus DIE

  Chtromalus dalli DIE

  Balanus glondula miz
  - 2) Crabs

    Mermid Crobs Paguridae m²

    Hemigrapsus aregonansis szz

    Haploguster 47. mzz

    Pugutia 47. 5zz
  - 3) Brack Hoppus
    Isoperal ?spp m23
    Amphipuls
    Orchestie? m23.
- V) SHRIMPS
  Lebbous App. P23
- 6) Bryozoans
  pueroporina berealis R23
  Schroporella: 9pp. m23
- H) Echinodermo (Sea Stars/Urdun ) Sea Stars

Pyrnopodia helianthaldes M Dermasterias imbricata M23 Laptasterias hexachs M23 Puastorias truscheli R23 Onthasterias kachleri R23 Pisaster Ochraceus M12

- 2) Dritte Stes Ophiuroida
  Ophiolus app? R27
- 3) Sea Cucumbus -Cucumaria minista RZ3 C. MKRINE USLTZGRA925

FISH - PHOLIDAE 2 pp ME3 COTTIDAE - 3 pp B12 Grand Swipin: R23

## B. MARINE INVESTEBRATES (CONT)

- 6) Echivron Worms Weence Worms Echivrus Achivrus RZZ
- 7) Sipunculid Worors Peanut Worns
   Phascolosome agassisis 223-
- 7) Möllwes.
  - a) CHITONS POLLIPLACOPHORA

    Katherine humeate \$ 12

    Tomicella lineate R12

    Mopalia 1779. R12

    Linearum 479 or purile R123
  - b) Sneeds Gastropodo

    Literina sudulata miz

    L-sitkana miz

    Nucella lamellosa mo 12

    N. emarzinata miz

    Scartesia dira mzz

    ? Amphisia columbiana 523
  - C) Limpits Acmaen mitra RIZ
    Lotte digitalis 512
    L. persona SIZ
    Tectura Scutum MZ3
    -Tectura Scutum MZ3
    -Tectura Genestrata RIZ
    T. parsona RIZ
    Siphonaria thereites MIZ
    -Diadora sopra MT
  - D) Mussels.

    Mytolog Edulis MIZ

    M. sol. formerus p.
  - e) Claus

    Jingh Pododasmus cepio Siz

    Histolla gp Rizz

    Frotothese stammes nes

    Macond sp Rez
  - 5) Malibrancho tomallibras fuccas mue-

- F) Crustaceoms

  i) Braneces Corropedia

  Semibalanus euroses 1272

  Chthamalus dalli 1272

  Balanus flondular 1272
- 3) Crabs
  Hermit Crobs Paguridae mass
  Hemigrapsus oversomensis sas
  Haplogouster 4pp. mass
  Pugettie 4pp. 523
- 3) Beach Hoppus
  Isoperda ?spp mes
  Amphipuds
  Orchesstre? Mes
- 4) SHRIMPS bebleves yps. RES
- 6) Bryozoans

  Ancroporine herealis +23

  Schizoporella: spp. m23
- H) Echinodermo (Sea Stars/Urduni)
  ) Sea Stara
  - Pychopodia helianthaideo 1927

    Dermesterias imbricata 1923

    Leptasterias herache 1923

    Evastarias tensetati 1923

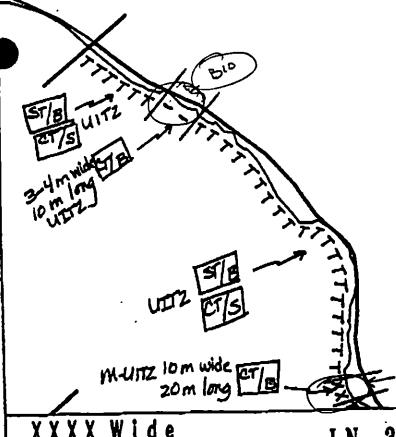
    Orthasterias kochleri 1923

    Pisaster Cehraceus 1912
  - 2) Britle Stes Ophicroids

    Ophiclus up ? pro
- C. PMRINE UERTEBRATES

PHOUDHE 2 pp M23 COTTIDAG - 3 pp \$12 Count Swipm 123

Sea webnis Strangyloembroku droebackeneis R23 11-31



IN-32

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Bro

XXXX Wide

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/// Medium Garon Segment Length: 2777m.

--- Norrow ADEC Segment Length: 2369m

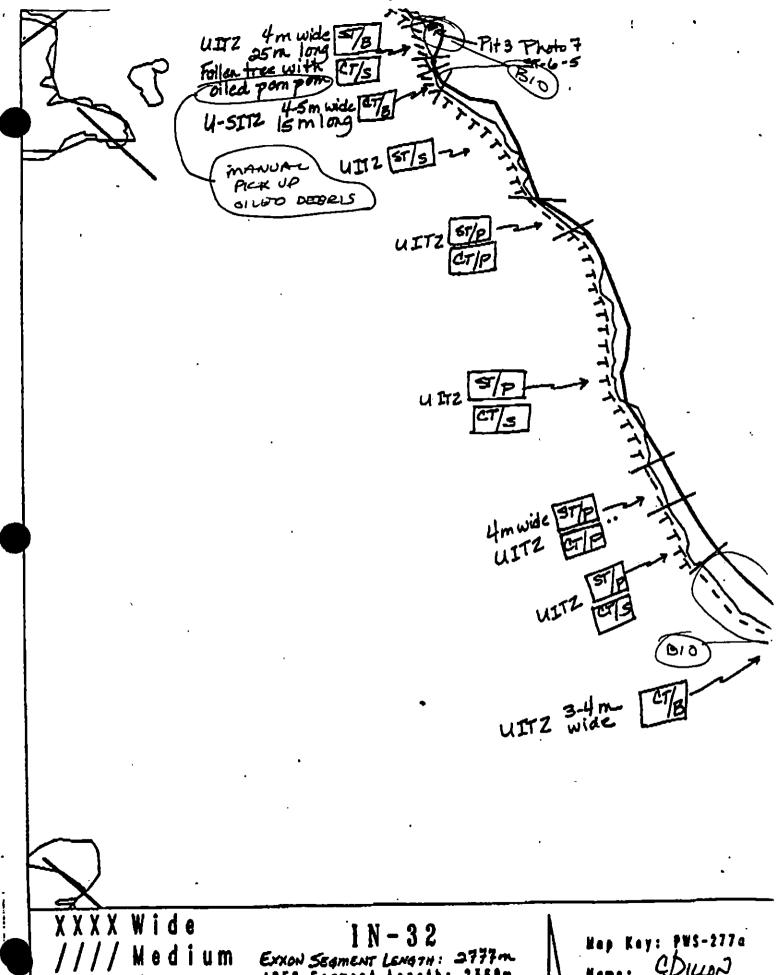
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Dete: <u>4/7/90</u>

Date Entered:



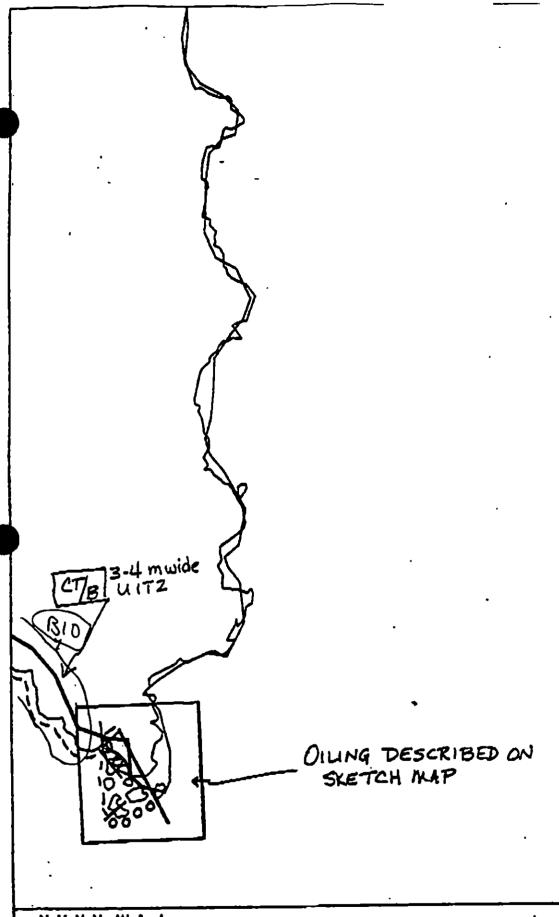
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| N-32

| / / / Medium Exxon Segment Length: 2777m.

---- Norrow ADEC Segment Length: 2389m

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### SHORELINE EVALUATION

SEGMENT	ST/_	IN-33	_ SUBDIVIS	ION_A	(1 OF 2)	DATE _	4/22/90	_
7II	Subsi ached	CONMENTAL SE stence area Ecological	: Deer har	vestin	g (8/15	to 2/28	)	s and
	any u	COLOGICAL C			damage	to uno	oiled biota	and
SHPO SIO	GNATUF	RE: Roshil con	Dur	DA	TE: <u>6</u> /	1,190		-
OILING (	CATEGO	RIZATION:						
Wide 72 Subsurf	_m: Me ace Oi	edium <u>17</u> m: 1 Observed:	Narrow_21 Yes_X	3_m: V No	'.Light <u>4</u> Max	72_m: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note: Note:	o Oil <u>486</u> pth <u>30+ cm</u>	_m_
RECOMME	NDATIC	ns:						
X Tre	eatmer nual E oremed	ment Recomm nt Recommend Pickup Niation Removal	ed	Oi Alt Sp Be	are/Abso l Snares sorbents ot Washi ach Clea her (see	(pom pom pom pom pom pom pom pom pom pom	oms) rolls,etc) Wands	A.
COMMENT:	S: <u>Re</u>	ecommend man	ual pickup h map.	of de	bris fol	lowed b	y bioremedia	ation
TAG COM		MAN Froms TI	ML 711	ING Svare	+ 5AT	M3H Revisi	OF AREA	- 01L
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EXXON _	ROVAL ART WE MANY TO	won wtw.	FC	sc:_b	7	DATE	: 6-5-90	-

Salmon stream mouth - fry outmigration (3/1 to 5/15)

Salmon stream mouth - aprenning (7/10 to 8/31) 18

No disturbance of stream bed or banks unless authorized by ADF&G. No beach flushing into stream drainage. No bioremediation or other chemical application within 100m of stream without authorization from ADF&G. No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, prior to at least July 1 unless authorized by ADF&G. Treatment which is not intrusive and which will not affect nearshore oil or toxicity levels, such as manual removal, can probably proceed without adherence to time constraints. In any case, contact ADF&G Habitat Division prior to treatment for consultation and/or permit application.

AGENCY CONTACT PERSON: ADF&G John Morison 267-2324

Salmon fry nursery area. (4/31 to 7/31) 1C

No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, prior to July 31 unless authorized by ADF&G. Treatment which will not affect nearshore oil or toxicity levels, such as manual or mechanical removal, can probably proceed without adherence to time constraints. Contact ADF&G prior to treatment for confirmation and advice.

AGENCY CONTACT PERSON: ADF&G Larry Pettz 424-3214

Esther Hetchery release (4/15 to 6/15) 1D

1E

Main Bay Histohery release (4/20 to 6/15) Sewmill Bay Histohery release (4/15 to 6/1) 1F

Cannery Creek Histohery release (4/21 to 6/1) 1**G** 

**1H** Remote release site

14

No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or inipol application, prior to at least July 1 unless authorized by ADF&G and/or PWS Aquaculture Association. Treatment which will not affect nearshore oil or toxicity levels, such as manual or mechanical removal, can probably proceed without adherence to time constraints. Contact ADF&G or PWS Aquaculture Association for confirmation and authorization.

AGENCY CONTACT PERSON: 1E

ADF&G Larry Pettz 424-3214 1D 1F 1G PWS Aquaculture Association John McMillan or Bruce Suzomoto 424-7511

11 Gill net area. (6/7 to 8/31)

IJ Purse seine area (7/20 to 9/30)

Purse seine hook-off (7/20 to 9/30) 1K

Set net sites (6/11 to 7/25) 1L

Contact ADF&G for specific dates, locations and constraints. Restrict boat and air traffic to essential minimum. When set net sites are present (1L) restrict beach operations to essential minimum as authorized by ADF&G. If plans for treatment include methods such as hot water wash or Inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization. AGENCY CÓNTACT PERSON: ADF&G James Brady 424-3212

Herring spawning (4/1 to 6/15)

Contact ADF&G for confirmation - dates and locations may vary. Restrict boat traffic to essential minimum. Avoid damage to unoiled intertidal and subtidal algae and seagrass. If plans for treatment include methods such as hot water wash or Inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization.

AGENCY CONTACT PERSON: ADF&G Evelyn Biggs 424-3235

Harbor seal and sea lion pupping (5/15 to 7/1) Harbor seal and sea lion molting (8/15 to 9/15)

Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts. No application of Inipol within two weeks of arrival dates (work window at these sites is limited to 7/2 to 7/31). Contact ADF&G and USFWS prior to treatment for confirmation.

AGENCY CONTACT PERSON: US National Marine Fisheries Service Steve Zimmerman 586-7235

ADF&G Don Calkins 267-2403

Seabird colony (5/1 to 9/1) SR

Restrict air and boat traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance from colony. Contact USFWS prior to treatment.

AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377

5S Shorebird/waterfowl concentration (4/1 to 5/15)

Restrict all activity to essential minimum, especially air traffic. Contact USFWS and ADF&G for confirmation.

AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377

ADF&G Tom Rothy 267-2206

ST. All Baild Eagle nests (3/1 to 6/1)

Active Bald Eagle nests (3/1 to 9/1)

Restrict air traffic and all disturbance to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates. AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377

6IJ Recreation: 67

Tent sites (6/1 to 9/15)

Anchorages (6/1 to 9/15)
Forest Service cabins (6/1 to 9/15)

Lodge (6/1 to 9/15) Special use destination

Subsistence area: Salmon harvesting (5/1 to 9/30)

Finfish harvesting

Deer harvesting (8/15 to 2/28)

invertebrate harvesting

Contact ADF&G and appropriate Native Corporation for specific dates, locations, and constraints. Restrict boat and air traffic and beach disturbance to essential minimum. If plans for treatment include methods such as hot water wash or application of Inipol which might affect intertidal or nearshore oil or toxicity levels, contact ADF&G and appropriate Native Corporation for authorization - see Native Corporation Contact List for each Native Corporation's contact person.

AGENCY CONTACT PERSON: ADF&G Jim Fall 267-2359



## FIELD SHORELINE COMMENT SHEET

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COMMENTS

REVIEWED DATE 4/25/90

REVISION CHISA

OG C. DILLON
TEAM 6

SEGMENT STI IN-33 SUBDIVISION A (2052)

### SUBSURFACE OIL (CONTINUED)

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COMMENTS

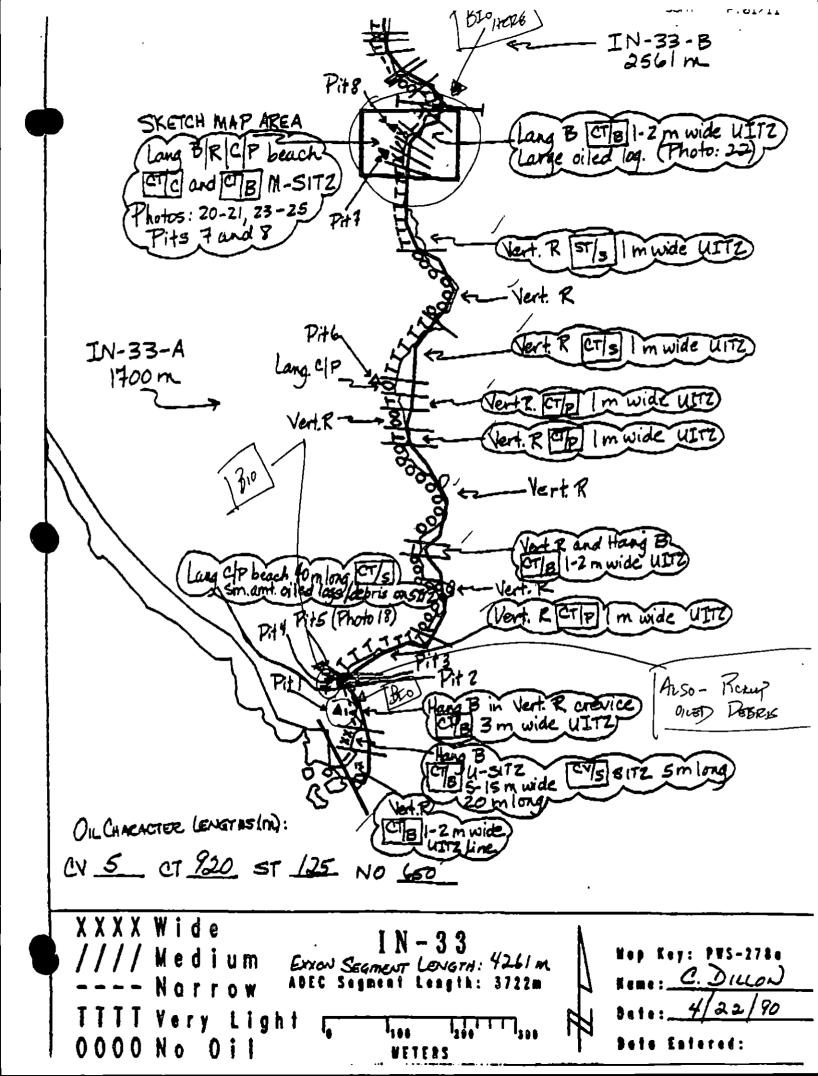
REVIEWED 70 DATE 4/25/90

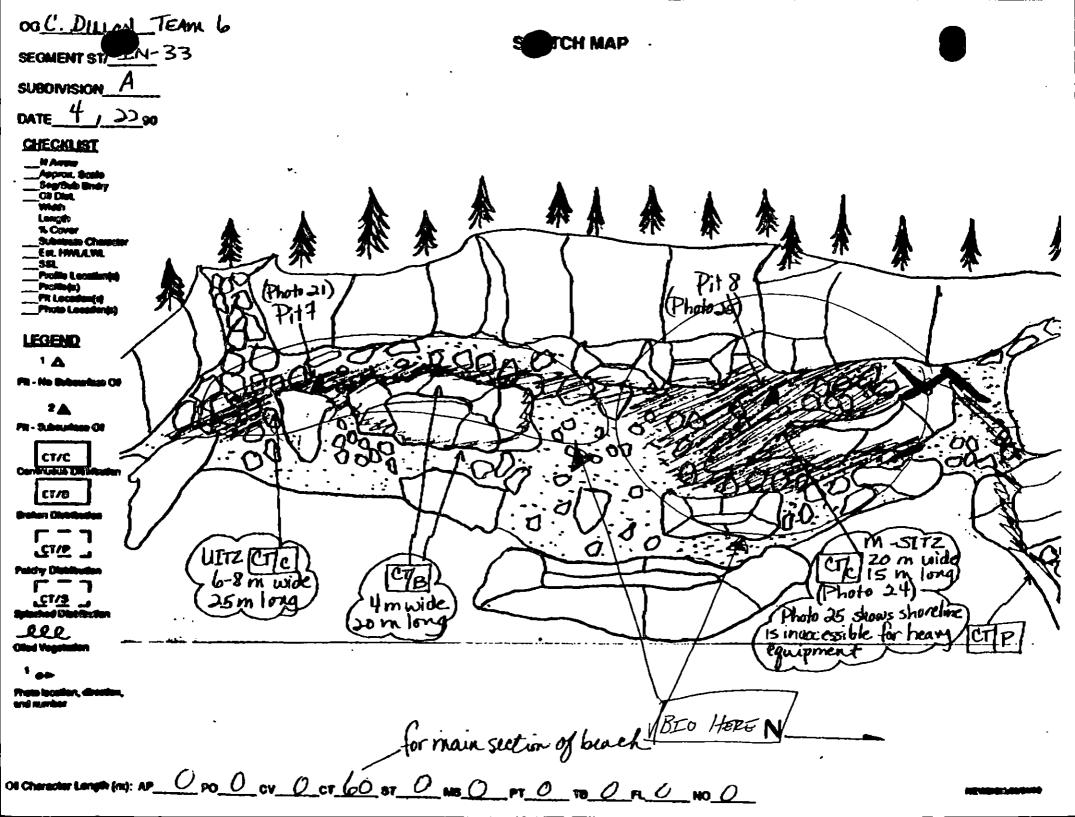
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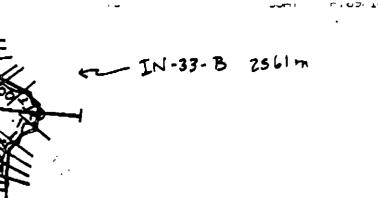
No other conditions are surstive.

## 3. Oil-related Commints

- The high upper your and supra intertidal your are the most strongly unpacted by oil, when a cover of oil m and amongst collide is receasionally resent. This habitat, typically has low cover of brota and often is a "bare your, occupped by I chem and microalgoe. Lower yours along this subdivision are mostly densely covered by oil, and green at this time to be little effected by oil.
- 2) Deer harvedong in August February is the only listed ecological sensitivity, and will likely not be affected by clean up operations on the present oil destribution.







17-33-A 1700M

# ADDENDUM: SUBDIVISION CONSTRAINTS

SEGMENT IN-33 SUBDIVISION A (1 of 2)

	WORK WINDO	N
Manual Pickup		OPEN
Bioremediation Spot Washing		
Other Approved Tre Manual Tilling	WO	RK PRIOR TO 8/15

#### ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

### APPLICABLE ECOLOGICAL TIME CONSTRAINTS

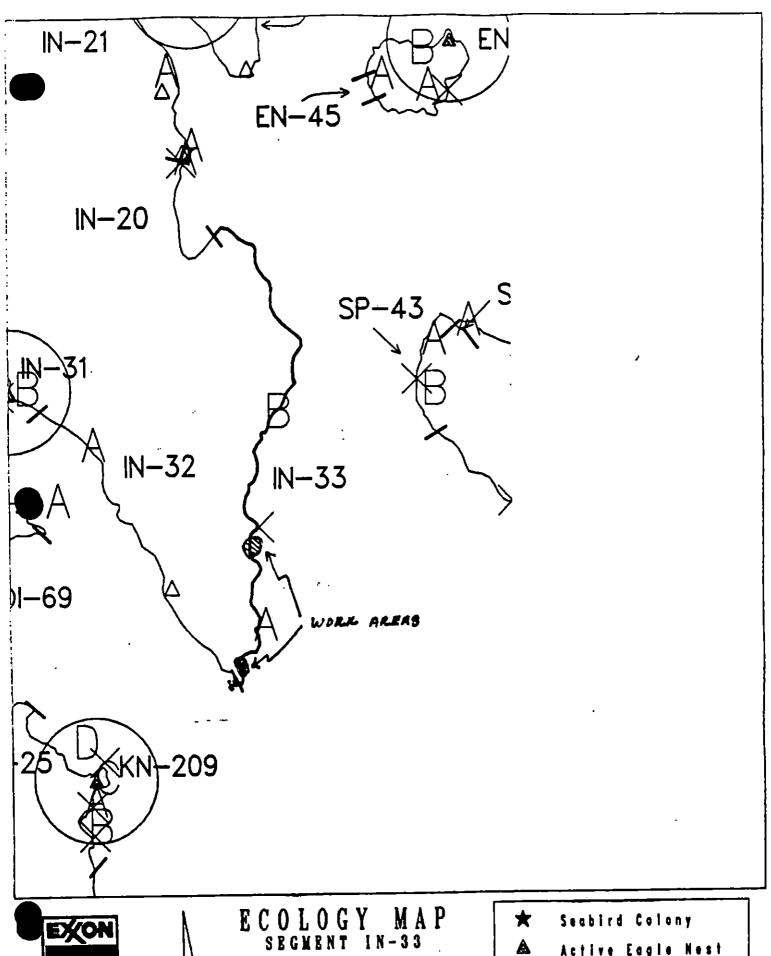
7II Subsistence: Deer Harvesting

Closed to bioremediation, spot washing, other approved treatment, and manual/mechanical raking after 8/15. No constraint to manual pickup.

### OTHER ECOLOGICAL CONSIDERATIONS

Restrict boat and air traffic and beach disturbance to essential minimum. Avoid any unnecessary disturbance or damage to unoiled biota and substrate.

Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepared by Prepar



Exxon Company, USA
Map Key1 PMS-IN-33
June 09, 1990

ECOLOGY MAP SEGNENT IN-33 SUBDIVISION A (_/of_2_) WETERS Seabird Colony

Active Eagle Nest

Anactive Eagle Nest

I inch = 2086 feet

#### SHORELINE EVALUATION

	SEGMENT ST/ SUBDIVISION_B (2 OF 2) DATE4/22/90
	SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS: 7II Subsistence area: Deer harvesting (8/15 to 2/28) See attached Ecological Constraint sheet for specific constraints and contacts.
	SUBDIVISION ECOLOGICAL CONSTRAINTS: Avoid any unnecessary disturbance or damage to unoiled biota and substrate.
	SHPO SIGNATURE: Rechel com Our DATE: 6/1/90
	OILING CATEGORIZATION:
	Wide 11 m: Medium 30 m: Narrow 62 m: V.Light 217 m: No Oil 2142 m Subsurface Oil Observed: Yes X No Maximum Depth 20+ cm
_	RECOMMENDATIONS:
,	No Treatment RecommendedSnare/Absorbent Booms
	COMMENTS: Recommend bioremediation of areas indicated on sketch map.
	TAG COMMENTS: MANUALLY RAKE IN LICA OF TPS PRIOR TO BRO
}	TAG APPROVAL DATE: 5/4/90  ADEC ART WENOR DATE: 6-8-90  EXXON Amoly BAL About FOSC: DATE: 6-8-90  NOAA Cory Petrae Acy Patron Munition evaluate need to recke area USCG G.A. REITER GA. Their and of Patro print broremediation.

Salmon stream mouth - fry outmigration (3/1 to 5/15)

Salmon stream mouth - spewning (7/10 to 8/31)

No disturbance of stream bed or banks unless authorized by ADF&G. No beach flushing into stream drainage. No bioremediation or other chemical application within 100m of stream without authorization from ADF&G. No use of methods which might affect nearshore oil or toxicity levels, such as not water wash or inipol application, prior to at least July 1 unless authorized by ADF&G. Treatment which is not intrusive and which will not affect nearshore oil or toxicity levels, such as manual removal, can probably proceed without adherence to time constraints. In any case, contact ADF&G Habitat Division prior to treatment for consultation and/or permit application.

AGENCY CONTACT PERSON: ADF&G John Morison 267-2324

1C Seimon fry nursery area. (4/31 to 7/31)

1B

No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or Inipol application, prior to July 31 unless authorized by ADF&G. Treatment which will not affect nearshore oil or toxicity levels, such as manual or mechanical removal, can probably proceed without adherence to time constraints. Contact ADF&G prior to treatment for confirmation and advice.

AGENCY CONTACT PERSON: ADF&G Larry Peltz 424-3214

Esther Hetchery release (4/15 to 6/15) 10

1E

Main Bay Hatchery release (4/20 to 6/15) Sawmill Bay Hatchery release (4/15 to 6/1) 1F

Cannery Creek Histohery release (4/21 to 6/1) 1G Remote reisase site

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AGENCY CONTACT PERSON: 1E

ADF&G Larry Peltz 424-3214

1D 1F 1G PWS Aquaculture Association John McMillan or Bruce Suzomoto 424-7511

Gill net area. (6/7 to 8/31) 11

Purse seine area. (7/20 to 9/30) 1.1

Purse seine hook-off (7/20 to 9/30) 1K

Set net sites (6/11 to 7/25)

Contact ADF&G for specific dates, locations and constraints. Restrict boat and air traffic to essential minimum. When set net sites are present (1L) restrict beach operations to essential minimum as authorized by ADF&G. If plans for treatment include methods such as not water wash or Inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization.

AGENCY CONTACT PERSON: ADF&G James Brady 424-3212

Herring spawning (4/1 to 6/15) 2M

Contact ADF&G for confirmation - dates and locations may vary. Restrict boat traffic to essential minimum. Avoid damage to unoiled intertidal and subtidal algae and seagrass. If plans for treatment include methods such as hot water wash or Inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization.

AGENCY CONTACT PERSON: ADF&G Evelyn Biggs 424-3235

Herbor scal and see ion pupping (5/15 to 7/1) 3O, 3Q

Harbor seal and sea ion molting (8/15 to 9/15)
Restrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts. No application of Inipol within two weeks of arrival dates (work window at these sites is limited to 7/2 to 7/31). Contact ADF&G and USFWS prior to treatment for confirmation.

AGENCY CONTACT PERSON: US National Marine Fisheries Service Steve Zimmerman 586-7235

ADF&G Don Calkins 267-2403

Seabird colony (5/1 to 9/1) 5R

Restrict air and boat traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance from colony. Contact USFWS prior to treatment.

AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377

Shorebird/waterfowl concentration (4/1 to 5/15) 55

Restrict all activity to essential minimum, especially air traffic. Contact USFWS and ADF&G for confirmation.

AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377 ADF&G Tom Rothy 267-2208

All Baid Eagle nests (3/1 to 6/1) ST

Active Baid Eagle nests (3/1 to 9/1)
Restrict air traffic and all disturbance to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates. AGENCY CONTACT PERSON: USFWS Jill Parker 786-3377

6U Recreation: Tent sites (6/1 to 9/15)

Anchorages (6/1 to 9/15)

Forest Service cabins (6/1 to 9/15)

**6W** 6X 64

Lodge (6/1 to 9/15) Special use destination

**7Z** 

Subsistence area: Salmon harvesting (5/1 to 9/30)

Finfish harvesting

Deer harvesting (8/15 to 2/28)

Invertebrate harvesting

Contact ADF&G and appropriate Native Corporation for specific dates, locations, and constraints. Restrict boat and air traffic and beach disturbance to essential minimum. If plans for treatment include methods such as hot water wash or application of Inipol which might affect intertidal or nearshore oil or toxicity levels, contact ADF&G and appropriate Native Corporation for authorization - see Native Corporation Contact List for each Native Corporation's contact person.

AGENCY CONTACT PERSON: ADF&G Jim Fall 267-2359



7HH

**6V** 

# FIELD SHORELINE COMMENT SHEET

SEGMENT ST / IN-33 SUBDIVISION: B DATE 4/22/9	, 90
NAME W: Ilian E WILLE SIGNATURE Without E. White	
☐ NO TREATMENT RECOMMENDED ☐ TREATMENT SUGGESTED	-
OILED SEDMENT MANY LARGE RE LOSES	
OILED SEDMENT AROUND LARGE BOWLDERS	
\$2.5KETCH MAP 2 BRING IN ENRTH MOVING EQUIPMENT	_
TO PULL DOWN SUPERTIDAL INTO LOWER TIDAL ZONE THEM BIOISMONIES.	
#3 NO TREATMENT TO THE REST OF THE SECMENT,	
NAME Peter Monteseno SIGNATURE Peter MANTESANO	
OMMENTS  - Dit 3 Soft Ap forming below Surface, oil NOT Visible from Surface was	, 6 kg
to determine appropriate treatment Pit4 spot Steen washable whose Flush, SBL on, and tarond, oil draplets - Pit water, Atend of Area Silver Sheem on Surface waters at edge of l	iN
- Pit 5, localized Pickup of oiled Seaments	Drain
-Pit 10, Few oil Signs on Surface, area too high to treat w/ 1510,	
CONCURT W/ Exxen to Pall down berm and broon UITZ, pret ANDIA Sugar tidal gress area.  LAND MANAGERUS DA-Forest sorvice  NAME Don J. British  SIGNATURE Don J. British  SIGNATURE	rect
NAME Don J. Breiting	_
COMMENTS TREATMENT SUGGESTED	
This area solves as a subsistance area for dear harvosting Arg 15- Fab 28th.	
pit 5 oiled sediments should be picked append to unived.	
pit 9 bio somediation pit 10 agree with Expon rap, to pall down tidal between	
with machanical againment and apply bio remadiation.	
(worthward oil) should be left to ocean area action	<b>~</b>

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### SHORELINE OILING SUMMARY (PAGE 2)

OG C. DILLON TEAM 6

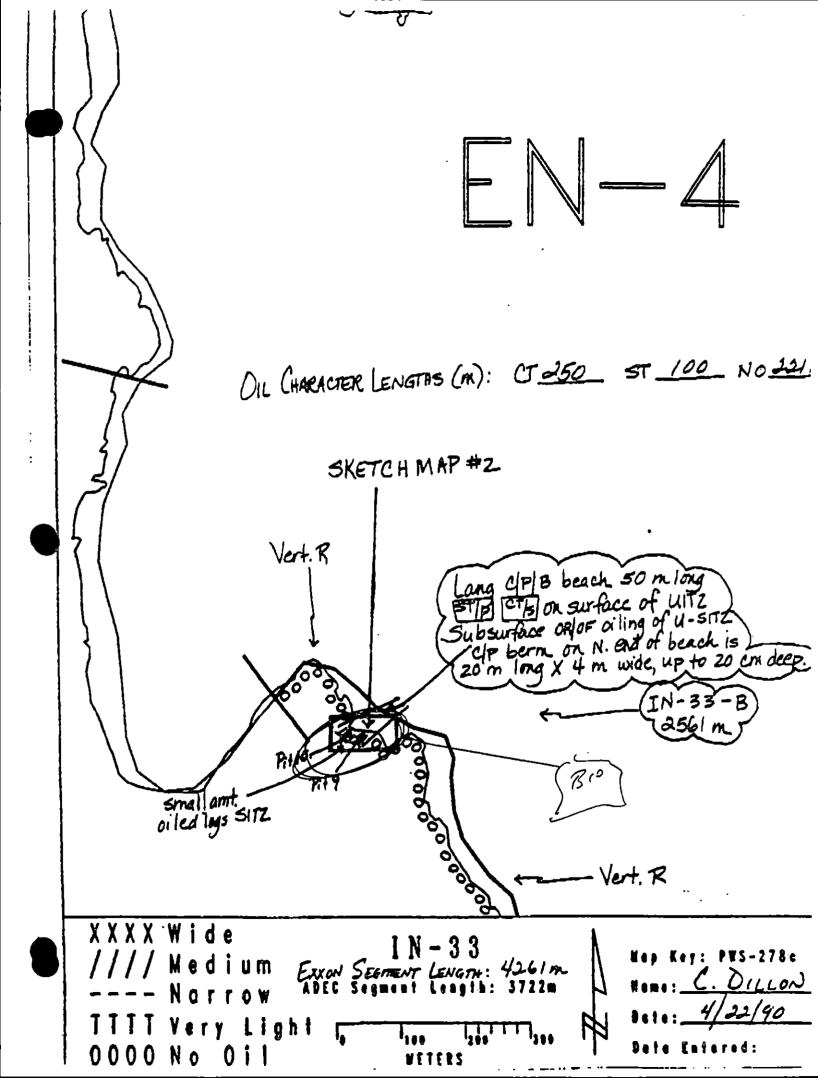
SEGMENT ST/ IN -33 SUBDIVISION B (20F2)

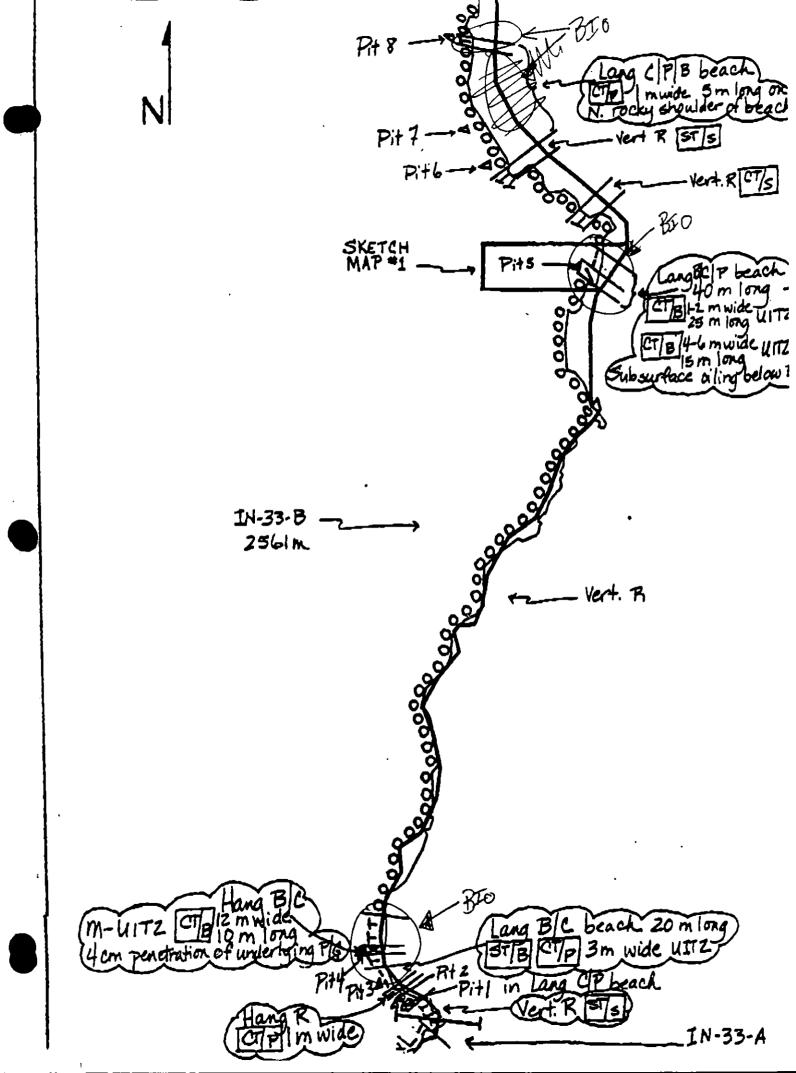
SUBSURFACE OIL (CONTINUED)

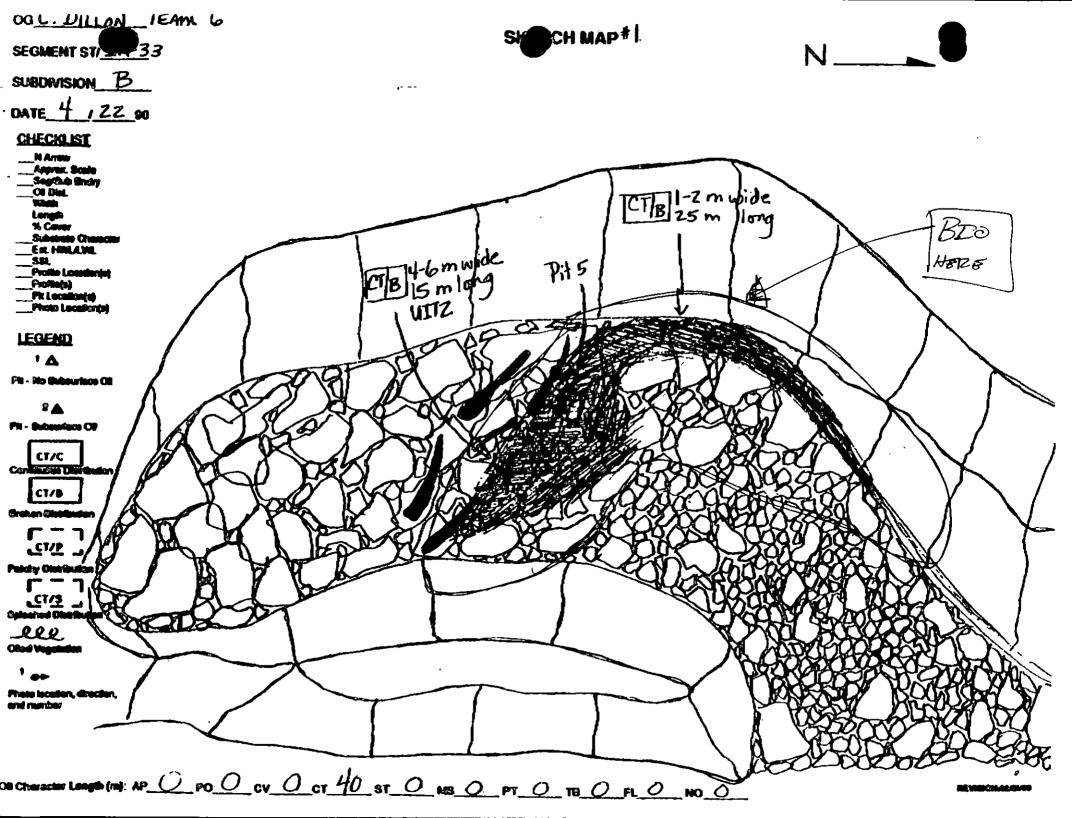
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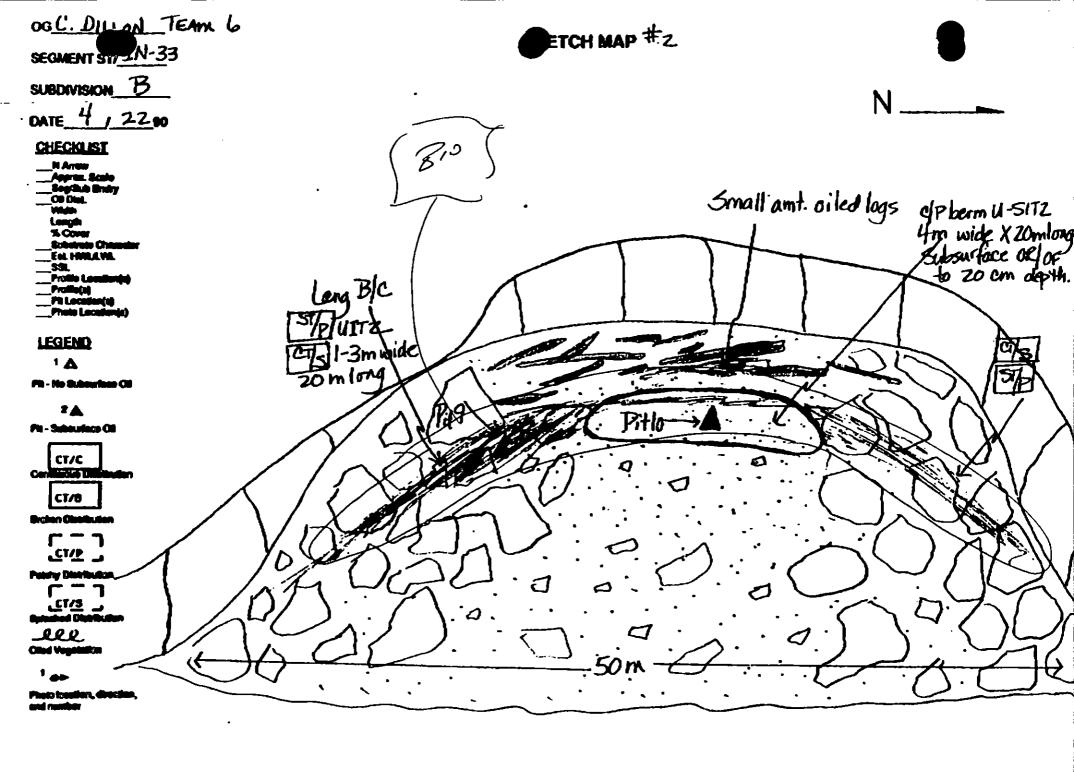
COMMENTS

REVIEWED W DATE 4/2540









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(B)	Overa	<b>⊯ % ∞</b> ∨	er of biot	<b>2 (%</b> c	f segmer	14): De	nse 6	<u>⊘</u> Mode	erate <u>:35</u>	Low	25	
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Wildlife Observations/ General Comments:

Glaveous sunged gull - 2 Sea Otta - 2 Emman Ruginson - 2

**Ecological Considerations:** 

7II - Deer harvesting - may be impached slightly by Clean up operations between August and February

TIME 1755 -1930 TIME +1--+2

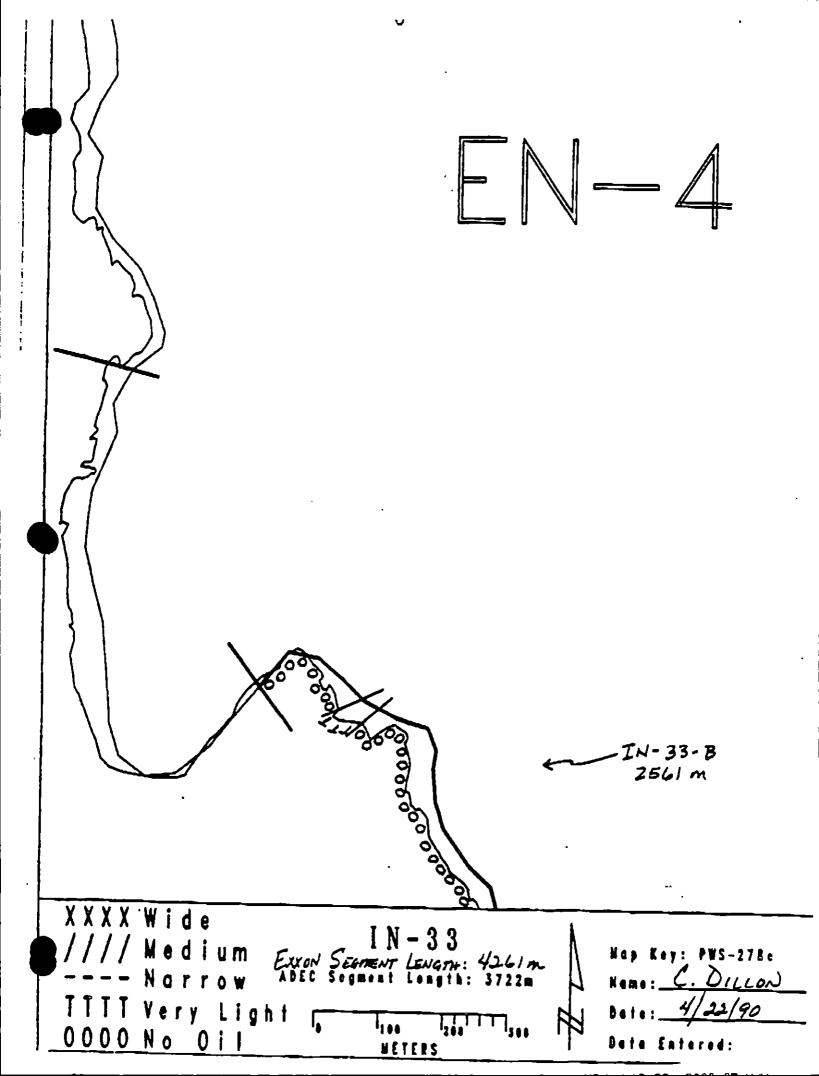
## I beneral Comments

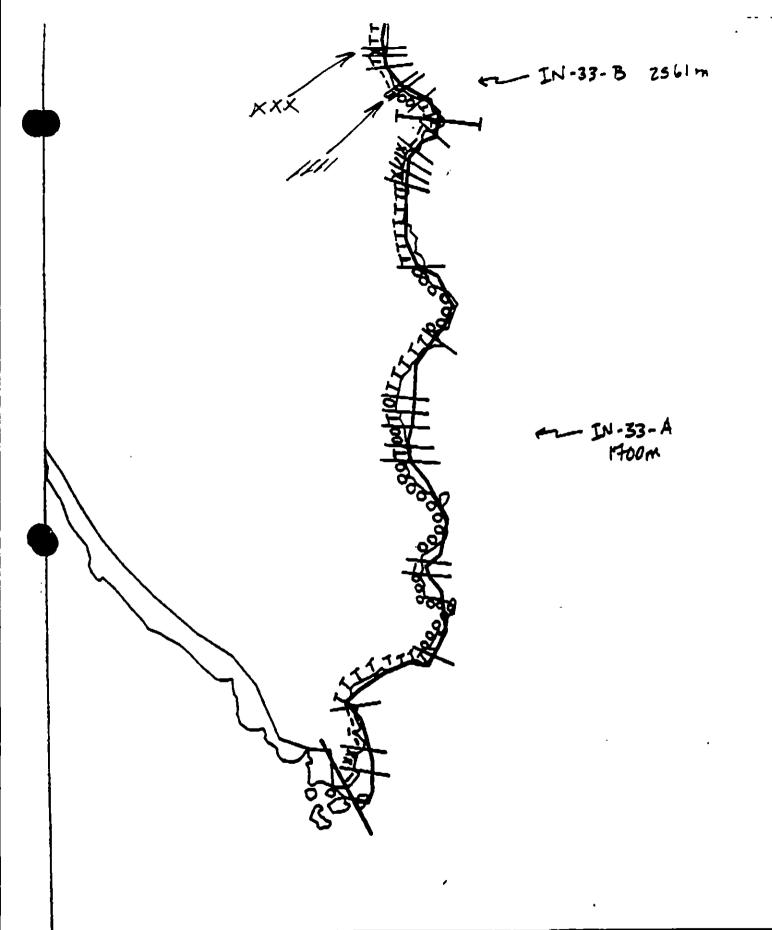
This subdivision is situated along a constleme w/ exposure to high varies. It is, hereiner, not me as expected as subdivision IN 33 R, horated to the immediate South. Because of its similarly interms of exposure and habitet types, the brotic communities are usey similar. Some slight differences are appoint. Whelho, (Nucleage) are moderately to desirely abundant, appreciatly due to the Highly more protected nature of most of the habitet. Mytitus is Highly more abundant on exposed headlands, and Bi Pisastin, an injection? Anytitus predates seems Sightly less abundant. Few other deflections are apparent.

See the bio forms for \$1 N 33 A for further discussion.

500 Related Communts.

a dipas as a good 80000 IN-33.B 2561m XXXX Wide IN-33 EXXON SEGMENT LENGTH: 4261m ABEC Segment Length: 3722m PWS-2786 DILLON Very Light HETERS 0000 No 0il





### ADDENDUM: SUBDIVISION CONSTRAINTS

SEGMENT IN-33 SUBDIVISION B (2 of 2)

Manual Raking
AND
Bioremediation WORK PRIOR TO 8/15

#### ARCHAEOLOGICAL STANDARD CONSTRAINT

If cultural resources are uncovered, PHONE 564-3274.

#### APPLICABLE ECOLOGICAL TIME CONSTRAINTS

and manual raking

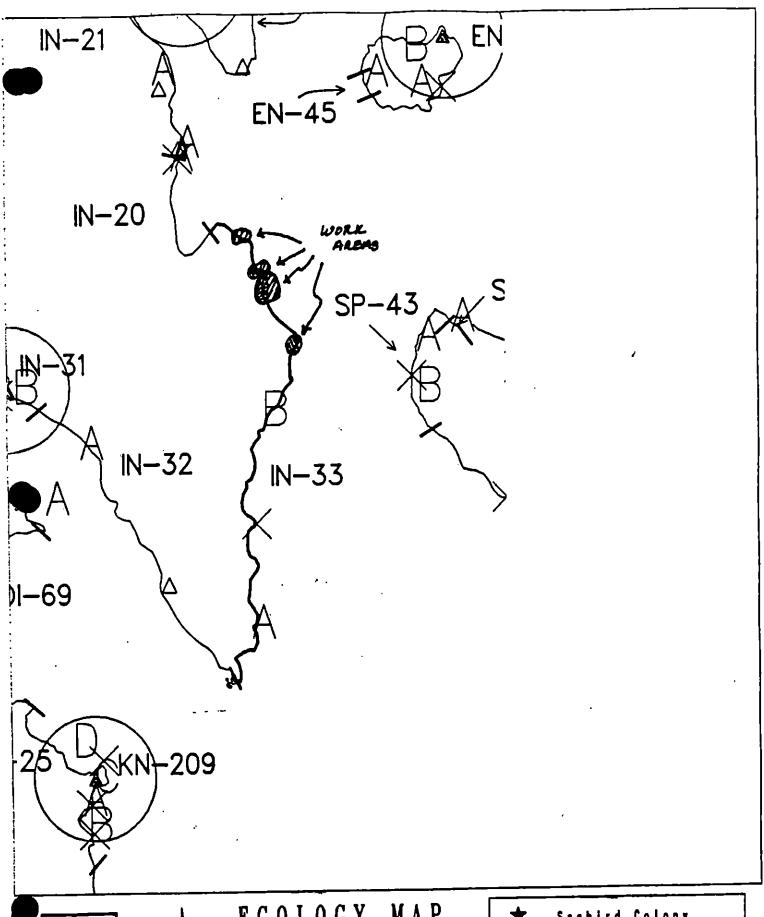
711 Subsistence: Deer Harvesting

Closed to bioremediation after 8/15.

#### OTHER ECOLOGICAL CONSIDERATIONS

Restrict boat and air traffic and beach disturbance to essential minimum. Avoid any unnecessary disturbance or damage to unoiled biota and substrate.

Prepared by Prepared by Date (0/4/9)



Exxon Company, USA

Hap Key! PMS-IN-33

ECOLOGY MAP SEGMENT IN-33 SUBDIVISION B (2012)

Seabird Colony

#### SHORELINE EVALUATION

SEGMENT ST/ IN-34 SUBDIVISION A (1 OF 1) DATE 4/25/90
SEGMENT ENVIRONMENTAL SENSITIVITIES AND TIME CONSTRAINTS:  5T-2 All bald eagle nests (3/1 to 6/1)-Active eagle nests (3/1 to 9/1)  6Y Recreation: Special use destination  See attached Ecological Constraint sheet for specific constraints and contacts.
SUBDIVISION ECOLOGICAL CONSTRAINTS: Avoid any unnecessary disturbance or damage to unoiled biota and substrate.
SHPO SIGNATURE: Maila 3 Holma DATE: 5/5/90
OILING CATEGORIZATION:
Wide 0 m: Medium 27 m: Narrow 29 m: V.Light 961 m: No Oil 1059 m Subsurface Oil Observed: Yes X No Maximum Depth 60+ cm
RECOMMENDATIONS:
<pre>X No Treatment Recommended</pre>
COMMENTS:
TAG COMMENTS: Monitors to reassess suitz and logs when in
TAG APPROVAL DATE: Man 5, 1990  ADEC AND WELLOW Mark N. Silbert FOSC:  DATE: 57-80  NOAA Georg Petros, Anny Others  USCG G. A. MELTER CARTERIES

#### PWS, SEWARD AND HOMER ECOLOGICAL CONSTRAINTS

Salmon stream mouth - fry outmigration (3/1 to 5/15) 18

Salmon stream mouth - speaning (7/10 to 8/31) No disturbance of stream bed or banks unless authorized by ADF&G. No beach flushing into stream drainage. No bioremediation or other chamical application within 100m of stream without authorization from ADF&G. No use of methods which might affect nearshore oil or toxicity levels, such as not water wash or inipol application, prior to at least July 1 unless authorized by ADF&G. Treatment which is not impusive and which will not affect nearshore of or toxicity levels, such as manual removal, can probably proceed without adherence to time constraints. In any case, contact ADF&G Habitat Division prior to treatment for consultation and/or permit application.

AGENCY CONTACT PERSON: ADF&G John Morison 287-2324

1C Salmon fry nursery area. (4/31 to 7/31)

No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or inipol application, prior to July 31 unless authorized by ADF&G. Treatment which will not affect nearshore oil or toxicity levels, such as manual or mechanical removal, can probably proceed without adherence to time constraints. Contact ADF&G prior to treatment for confirmation and advice.

AGENCY CONTACT PERSON: ADF&G Larry Petz 424-3214

1D

1E

Eather Hatchery release (4/15 to 6/15)
Main Bay Hatchery release (4/20 to 6/15)
Sawmill Bay Hatchery release (4/15 to 6/1)
Cannery Creek Hatchery release (4/21 to 6/1) 1F

1G

Remote release all

No use of methods which might affect nearshore oil or toxicity levels, such as hot water wash or inipol application, prior to at least July 1 unless authorized by ADF&G and/or PWS Aquaculture Association. Treatment which will not affect nearshore oil or toxicity levels, such as manual or mechanical removal, can probably proceed without adherence to time constraints. Contact ADF&G or PWS Aquaculture Association for confirmation and authorization.

AGENCY CONTACT PERSON: 1E

ADF&G Larry Poltz 424-3214

1D 1F 1G PWS Aquaculture Association John McMillan or Bruce Suzemoto 424-7511

GE net area (5/7 to 8/31)

Purse seine area. (7/20 to 9/30) Purse seine hook-off (7/20 to 9/30) 1.1

1K

Set not altes (6/11 to 7/25)

Contact ADF&G for specific dates, locations and constraints. Restrict boat and air traffic to essential minimum. When set net sites are present (1L) restrict beach operations to essential minimum as authorized by ADF&G. If plans for treatment include methods such as hot water wesh or inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization. AGENCY CONTACT PERSON: ADF&G James Brady 424-3212

Herring spewning (4/1 to 6/15)

Contact ADF&G for confirmation - dates and locations may vary. Restrict boat traffic to essential minimum. Avoid damage to unoiled intertidal and subtidal algae and esagress. If plans for treatment include methods such as hot water wash or inipol application which might affect nearshore oil or toxicity levels, contact ADF&G for consultation and authorization.

AGENCY CONTACT PERSON: ADF&G Evelyn Biggs 424-3235

Herbor seel and see lion pupping (5/15 to 7/1) 30, 30

Herbor seel and see fion molting (8/15 to 9/15)

Pastrict boat and air traffic to essential minimum. No personnel within 400m. Aircraft to maintain 800m horizontal and 300m vertical distance from haulouts. No application of inipol within two weeks of arrival dates (work window at these sites is limited to 7/2 to 7/31). Contact ADF&G and USFWS prior to treatment for confirmation.

AGENCY CONTACT PERSON: US National Marine Fisheries Service Steve Zimmerman 588-7235 ADF&G Don Calidna 267-2403

Seabird colony (5/1 to 9/1)

Pastrict air and boat traffic to essential minimum. No personnel within 800m. Aircraft to maintain 800m horizontal, 300m vertical distance from colony. Contact USFWS prior to treatment.

AGENCY CONTACT PERSON: USFWS JII Parker 788-3377

58 Shorebird/waterfowl concentration (4/1 to 5/15)

Restrict all activity to essential minimum, especially air traffic. Contact USFWS and ADF&G for confirmation.

AGENCY CONTACT PERSON: USFWS JM Parker 786-3377 ADF&G Tom Rothy 267-2208

All Bald Eagle neets (3/1 to 6/1)

Active Baild Eagle neets (3/1 to 9/1)
Restrict air traffic and all disturbance to essential minimum. No personnel within 400m 3/1 to 6/1. Air approach and takeoff from and to seaward only; maintain 800m horizontal, 300m vertical distance from nests. Contact USFWS prior to treatment for confirmation of dates. AGENCY CONTACT PERSON: USPWS JII Parker 786-3377

Recreation:

V .

**SU** 

**8888** 

**7**Z

Tent sites (5/1 to 9/15)

Anchorages (6/1 to 9/15)
Forest Service cabins (6/1 to 9/15)

Lodge (6/1 to 9/15)

Special use destination

Subsistance area: Salmon harvesting (5/1 to 9/30)

Findsh harvesting

Dear harvesting (8/15 to 2/26)

Invertebrate harve

Contact ADF&G and appropriate Native Corporation for specific dates, locations, and constraints. Restrict boat and air traffic and beach disturbance to essential minimum. If plans for seatment include methods such as hot water wash or application of inipol which might affect intertidal or nearshore oil or toxicity levels, contact ADF&G and appropriate Native Corporation for authorization - see Native Corporation Contact List for each Native Corporation's contact person.

AGENCY CONTACT PERSON: ADF&G Jim Fall 257-2359

# FIELD SHORELINE COMMENT SHEET

	SEGMENT ST / IN - 34 SUBDIVISION: A DATE 4/25/50
	NAME William E. WHITE SIGNATURE William E. WILLE
	NO TREATMENT RECOMMENDED TREATMENT SUGGESTED COMMENTS
	NAME Poter Newson SIGNATURE Poter Mutter
	NO TREATMENT RECOMMENDED   TREATMENT SUGGESTED COMMENTS all subsurface oiling "OF." Area of Pits 6+7 is treatable but would involve pulling down a large burn with logs on it. Pit is brown "OF and pit #7 in the burn is lighter "of"
	LAND MANAGER US DA-FORST SONATURE Tom A. Builtyin
	NO TREATMENT RECOMMENDED TREATMENT SUGGESTED
	This sagments serves as a recreation special use
_	Notice weathering appears to be the best the atmost
	nothed.

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COMMENTS

REVIEWED MH DATE 4-27-90

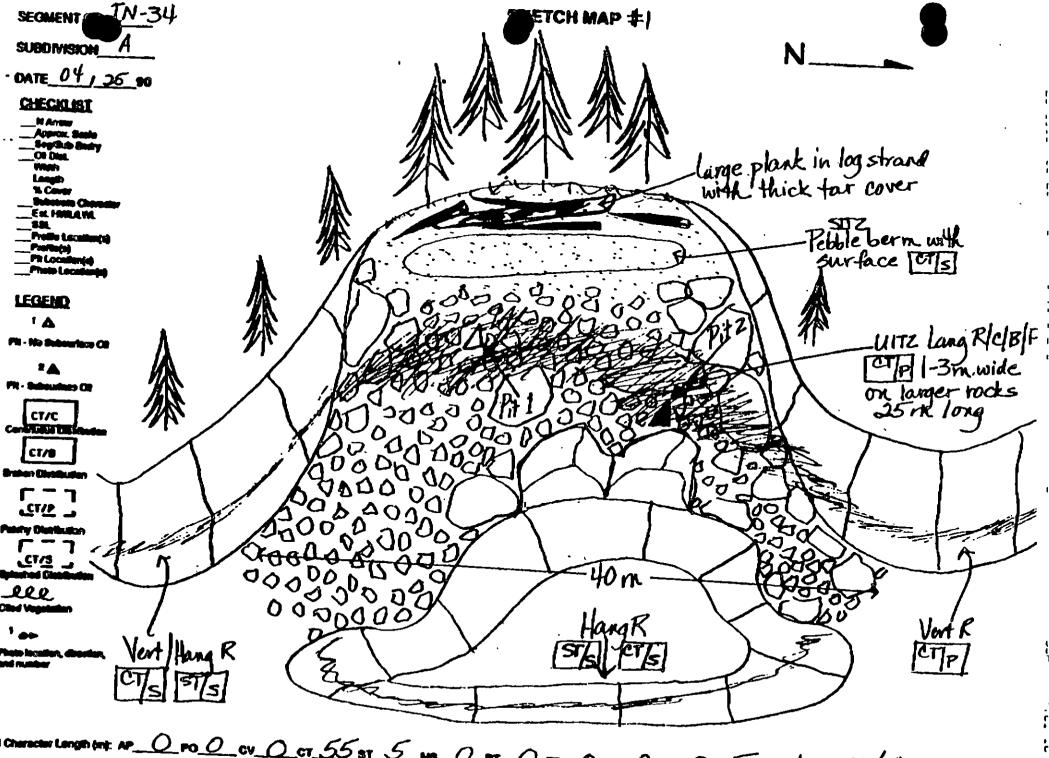
OG C. DILLON TEAM 6

SHORELINE OILING SUMMARY (PAGE 2)
SEGMENT ST/ IN-34 SUBDIVISION A (LOFL)

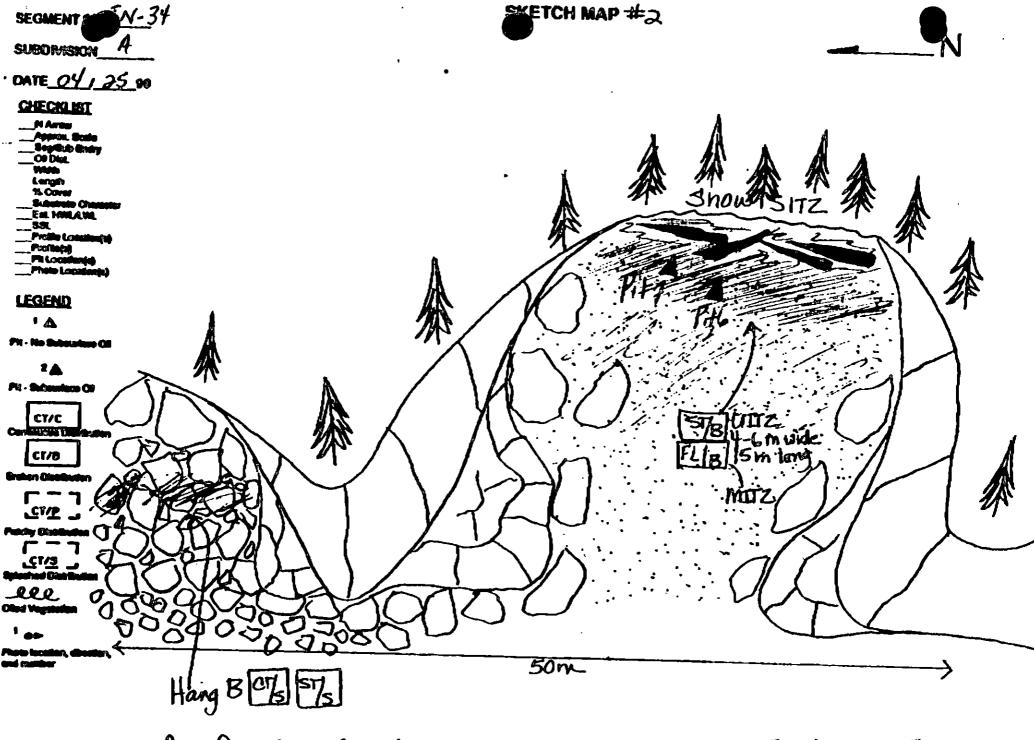
SUBSURFACE OIL (CONTINUED)

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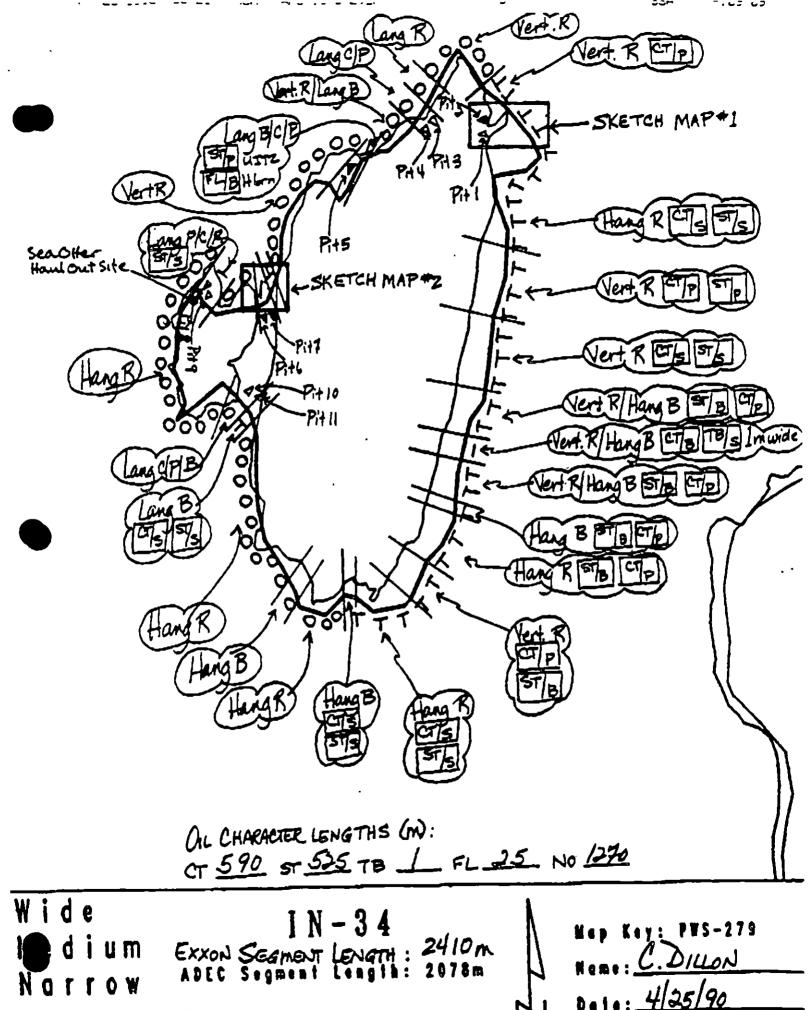
COMMENTS



ON CHARGES LANGES AP O PO O CV O CT 55 ST 5 MB O PT O TB O FL O NO O TOTAL LENGTH GOM .



CHICAMOSCHU LANGO (TH): NP 0 PO CV 0 CT 0 ST 20 NS 0 PT 0 TB 0 FL 10 NO 30 TOTAL ENGITH = 50m



No 0 i METERS

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	(A)	Substra (1) Be	nte type edrock_	<b>and % o</b> (2)	segme Bould	ents: er <u>16</u>	(3) Co	bble_ <u>5</u>	(4) F	Pebble_	<u>5_</u> (5	) Sand_	<u>0_(6)</u> Sæ <u>0</u>
	(B)	Overail	% cove	r of biota	(% of:	8 <b>000</b> 00	t): Den	se <u> 6</u>	Moder	ate <u>3</u> 2	2 Low	10	
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5T - EAGLE NEST - WCATED ON 13LAND - ZEAH Y - SPECIAL USE DESTINATION TIME 0715 - 1000

7:0E -3.3 -+ 6

# I General Comments

(vas 1.1) the segment is appealed to moderate to large waves and the more coast has a moderate to low exposure.

# A. Habited types

Destrict Bedroch & High angle Bedroch & Brilden thores. Most of the segment fets. This cotegory. Broke generally an dense, especially in the middle to love trade yours when alone are alreaded. Buses is mostly moderate in the middle of love your. Ulest and several special of planentous alone are medicate to deven in the middle stare, particularly on the patiented side of the island. In the love your Odentralia, Ptilota, and finish branched next alone (polysiphonous ceramiales?) are dense. The extrem love tradelyon and bublished are crossed by Costavai, laminaria, in Assaum. Alaria is islandant on the approved side of the island.

the ferme are typical of a moderately exposed stare. Mythlus adult is flightly patchy, with moderate coverage in sward slightly protected acts, and a sparse weald. Spals are present through the intertidal on most substate in sparse denotes. Lillounis; himpets, and wheles are moderate to sparse, but have a high severely. Because often are dense in the upper gones, and on upward theres, semibalanes carroons, the large a corn barnocle, is dense. Speak hereast is quite high on the wland, and related to the variable microhalted to spee associated with me changing wore exposure.

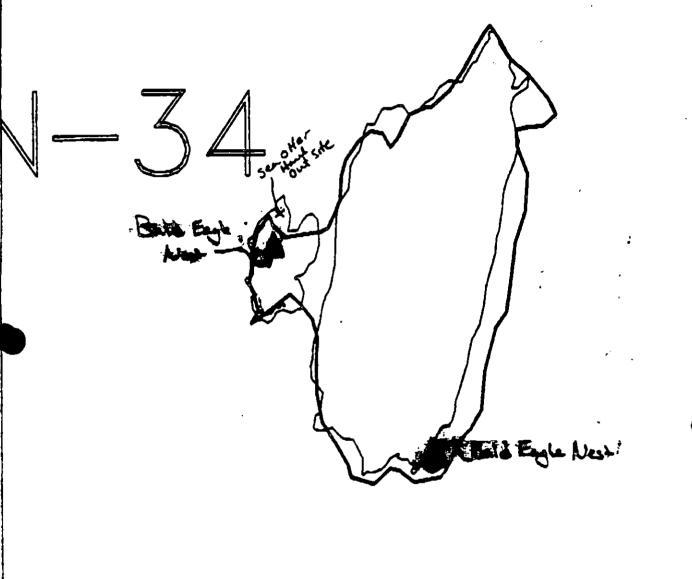
2) Cobble and Cobble/Public beaches. Several small beaches are present on the agment. On the exposed side of the island, the cobbles and publis are more rounded by wave action and india are more restricted to areas with larger colore and boulders. Sast. Litterine smails are dense on large cobble in see beaches throughout the island. Buyther adults are obsent from most beaches, except for outerips of boulder or bedroch where they can accosimally be moderate to dense. Spat and small fiveriles are sparse to on all but small cottle and jebbles. Farmocks see sparce to sience, depending on the supe of the cobble. also are abendarkt only in the middle and low yours on Here beaches. Small cools and Jebble are Clear, yeept for a space cover of diatoms or felomentous algae. On exposed Shores, colobe is meanly clean even in the subtidal your. Installed shores have a thicken cover of planner bous affair an diatorns.

B. Oil related Comments.

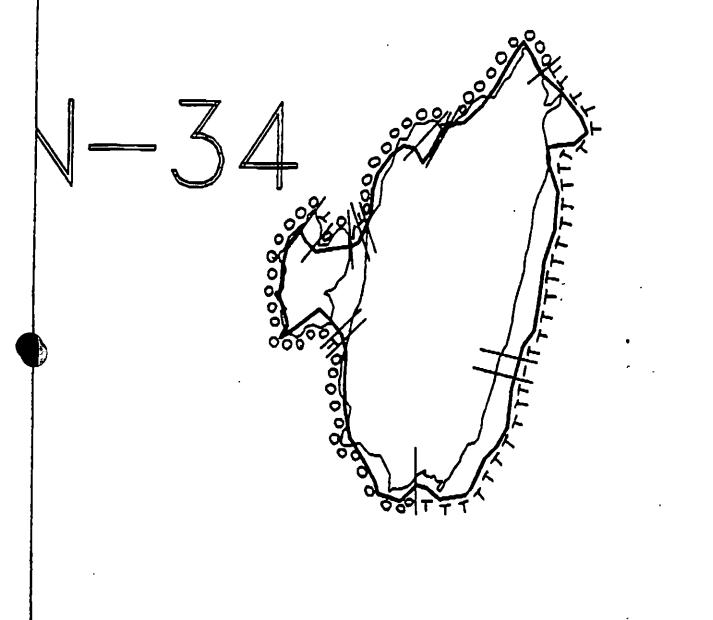
i) Oil cover is mostly restricted to upper & sopretidal gones and is light to very light. The only apparent effect of oil is the cont found in some sections on the upon your because population. Correspe occurs over only a small part of the barnock population and modality, I estimate. from the percentage of impty shells so is canable, Seter with oil have from 50 TO PO to head (averaging ~ 50%), while adjacent areas - That a cost of oil werege ~ 100%. Love your show little wideren of oil . Sport an queent on oil storm, and revelyon weathered coats of oil.

2) Cleany operations with probably not affect beal ecological persections. However, 2 eagle nests are located on the island, and a scartler have site occurs on the wland. (See map)

8/8



XXXX Wide /// Medium	I N - 3 4	Map Koy: PWS-279
Narrow	ADEC Segment Length: 2078m	Home:
TTTT Very Lig 0000 No Oil	h i lee lee lae lae lae lae lae lae lae lae	Dela Entered:



XXXX Wide

IN-34-A

/// Medium Exxon Scamout Length: 2410m

--- Narrow ABEC Segment Length: 2078m

TITT Very Light

0000 No Oil NETERS

Nop Key: PWS-279

Nome: C.DILLON

Date: 4/25/90

Deta Entered:

ARLIS

Alaska Resources
Library & Information Services
Anchorage, Alaska