[Shoreline evaluations, 1989].

Volume 10

Naked Island, Storey Island, Peak Island

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LIST OF KEY CODES USED ON SHORELINE CLEANUP EVALUATION FORMS

ISLANDS (Locations)

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

* GEOLOGIC SEDIMENT TYPE

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

** DEGREE OF OILING

Heavy	HV
Moderate	MD
Light	LT
No Oil	NO
Unobserved	UN

AREA OF BEACH IMPACT

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

ADEC IMPACT SURVEY

Heavy	HVY
Moderate	MOD
Light	LT
No Oil	NO
Unobserved	UNOBS

SHORELINE TYPE

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

Comments:

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

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

5/19/89

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Location (see enclosed map): NAKED ISLAND - McPHERSON BAY

Includes Shoreline Segments: NA-2 = portion of NA6

Submitted : [signature] (for Exxon) Date: 5/19/89

FOSC Approval: [signature] Date: 5/21/89

ISCC Representative [signature] 5/21/89

The cleanup procedures identified in the Shoreline Cleanup Program are recommended. Modifications to these systems can be made in the field. Exxon and other field personnel are encouraged to suggest innovations and productivity enhancements to the OSC's on-scene representative. The OSC's representative has the authority to approve on-site modifications. The Field Resource Team should be consulted if these actions do not fit within the Ecological Constraints of the Shoreline Cleanup Program. Requirements for safety and the protection of cultural material must be observed.

Distribution:

Exxon Shoreline Coordinator
Exxon Shoreline Supervisor
Exxon SCAT file

FOSC
CDFU
NOAA
EPA
USDA (FS)
USFW
A.DEC
A.FG
A.DNR
CAC
PWSCA
USFS
SHPO

Submitted for approval after cleanup had been conducted. Noted CSR 5-21-89

SHORELINE CLEANUP PROGRAM

DATE May 19, 1989 SHORELINE SEGMENT NA-2

LOCATION: (see enclosed map) McPHERSON BAY - NAKED ISLAND

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 5/19/89

Recommended Cleanup Activity(ies):
Flood and flush with warm water on low and high angle shorelines. Use moderate to high pressure washing on rocks.

Priorities Considerations:

Ecological Constraints (from site survey):
Middle and lower ITZ is clean and appears to be recovering. Clean only after clean areas of ITZ are covered by tide.

Archeological Constraints (from site survey):
If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon's Archeological Field Director and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

Charles E. Holmes
State Historic Preservation Officer * Date: May 19, 1989

EXXON: _____ Date: _____

FOSC: _____ Date: _____

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

SHORELINE OIL EVALUATION

Date: 5-19 / Time: 0900 Observer: NAKASHIMA

Surveyed From: Foot/Boat/Helio/Plane Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION McPherson Bay SEGMENT NUMBER VA-2 (FROM VA-6 SURVEY)

LENGTH OF SHORELINE SEGMENT: 800 m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE:

Shoreline Type: SPI/BEA/COV/HLD/STRT Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B 30 % / C 30 % / P 10 % / G___% / S___% / M___% / R 30 %

Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type LOGS ETC.

OIL

Degree of Oiling: Heavy/Moderate/Light/No Oil/Unobserved

Area of Beach Impact: SU / SP / H / M / L

Continuous: Y/N % of Segment 95 Width of Band: 3 m

Sporadic: Y/N % of Segment 5

Est. Oil Thickness where > 1cm: 5 cm Est. Oil Penetration: 0.2 cm

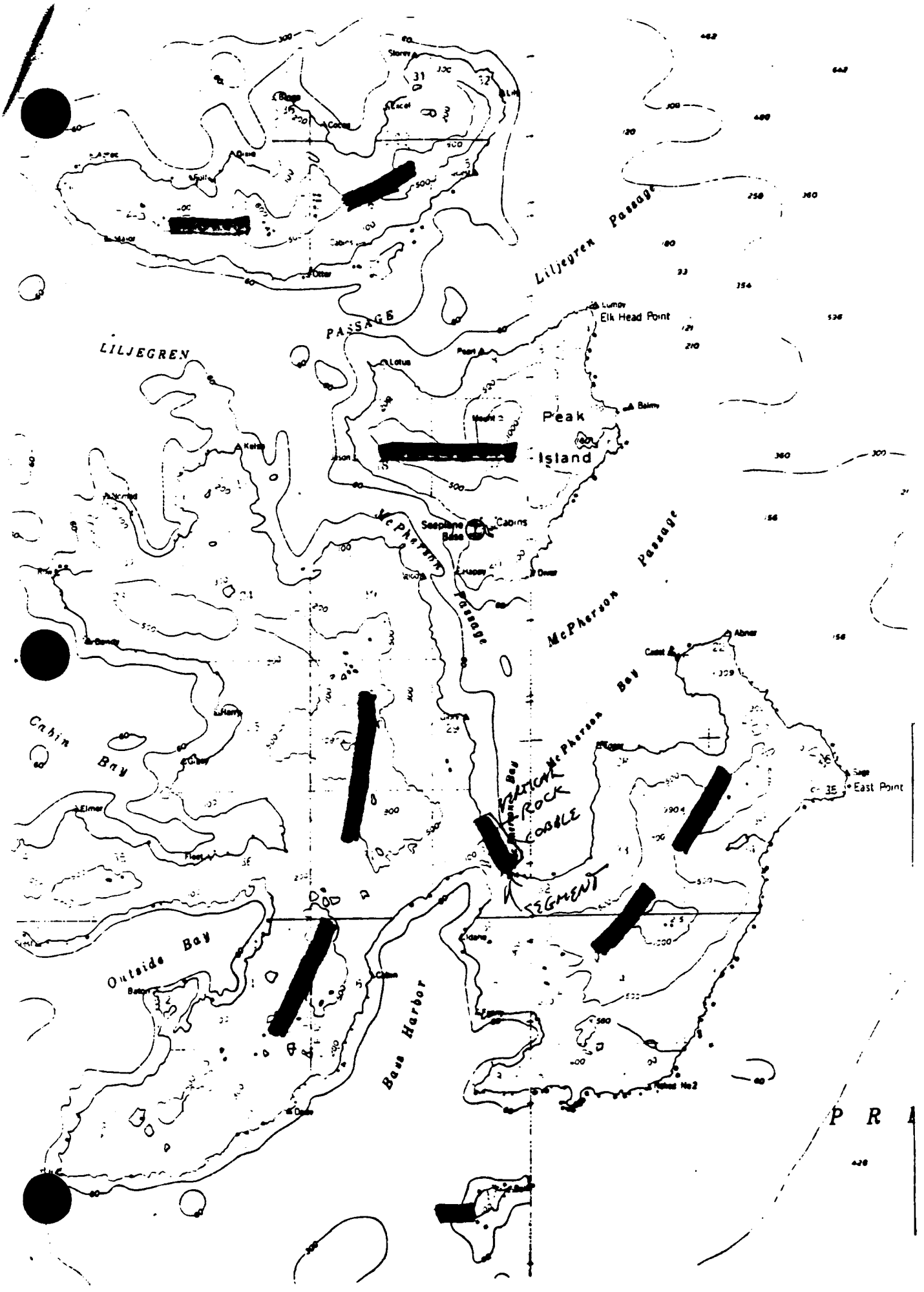
Pooled Oil: 0 % "Free" Oil: 0 % Coated: H___% /M___% /L___%

Fresh 0 % Mousse 0 % Tar Formation: 0 %

Drift Debris Oiled ? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L/

Comments:

ASSURE THAT CLEAN AREA OF BEACH AND FUCUS IS COVERED BY TIDE BEFORE CLEANING ON LOW AND HIGH ANGLE SHORELINES


Liljegren Passage
LILJEGREN
PASSAGE
Elk Head Point
Peak
Island
McPherson Passage
McPherson Bay
Cabin Bay
Outside Bay
Bass Harbor
East Point
VERTICAL ROCK COBBLE
SEGMENT

BIOLOGICAL EVALUATION OF OILED SHORELINES - PRECLEANUP

Shoreline Location: Naked Island Shore Segment: East McPherson Bay
Date: 4/13/89 Tide: 1400-1500 hrs low Weather: Sun
Shoreline Type: % by Type

	Rocks	Boulders	Cobbles	Gravel	Sand	Mud
Supratidal	←	100 %	→			
Intertidal		"				
Subtidal		"				

Percent Oil Coverage: High tide line__Intertidal__Offshore Sheen__

Oil Thickness, mm: High Tide Line___ Intertidal <1

Oil Penetration, cm: High tide Line___ Intertidal ±10

Type of Coverage: (Continuous) Patches Small Spots Tar Balls

High Tide Line:

Intertidal: Continuous film, heaviest at north end of segment

Biological Reconaissance

Dead Invertebrates on Shore: Species/Numbers ~~None noted~~ Dead barnacles at north end of segment

Living Invertebrates: Species/Numbers Nucella 750/m² in heavy Fucus cover at north end of segment, Littorina patchy (0-100/m²) Limpets rare, hermit crabs present

Condition of Living Invertebrates: Appear normal

Marine Mammal Activity: Species On/Offshore None noted

Diving Bird Activity: Species On/Offshore None noted

Overall Biological Condition of Shore:
Undamaged (Slightly Damaged) Severely Damaged Dead Nat. Depauperate

General Observations of Biological Conditions:

Recommended Spilled Oil Clean Up Approach: Wash/Flush

Special Precautions to Take During Clean Up: Try to not dislodge the smaller boulders with Fucus (rock weed) growing on them.

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 4/13/89 Location Naked Is. - McPherson Site

Location Prefix NA Segment # NA-2 Length 800 m

Survey Method:

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

Ground ✓ (G - indicate on map)

Known cultural resources (AHRS #) NONE Data Source

Oil conditions/beach visibility med. oiling at time of survey

Width of beach zone surveyed 10 m Tree fringe surveyed yes

Cultural resources observed in beach zone (AHRS code) none

Cultural resources observed in tree fringe (AHRS code) CMT

General observations justifying survey method and segment's site probability:

Shore Profile gradual slope / cobble beach

Fresh Water Sources small rivulets

Sea Exposure large but protected bay

Access/Safety helicopter, boat, float plane, easy

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

Monitoring during cleanup needed yes/(no) Collection yes/(no)

Photos: Color Roll # Frames

B/W Roll # CM #2 Frames 19

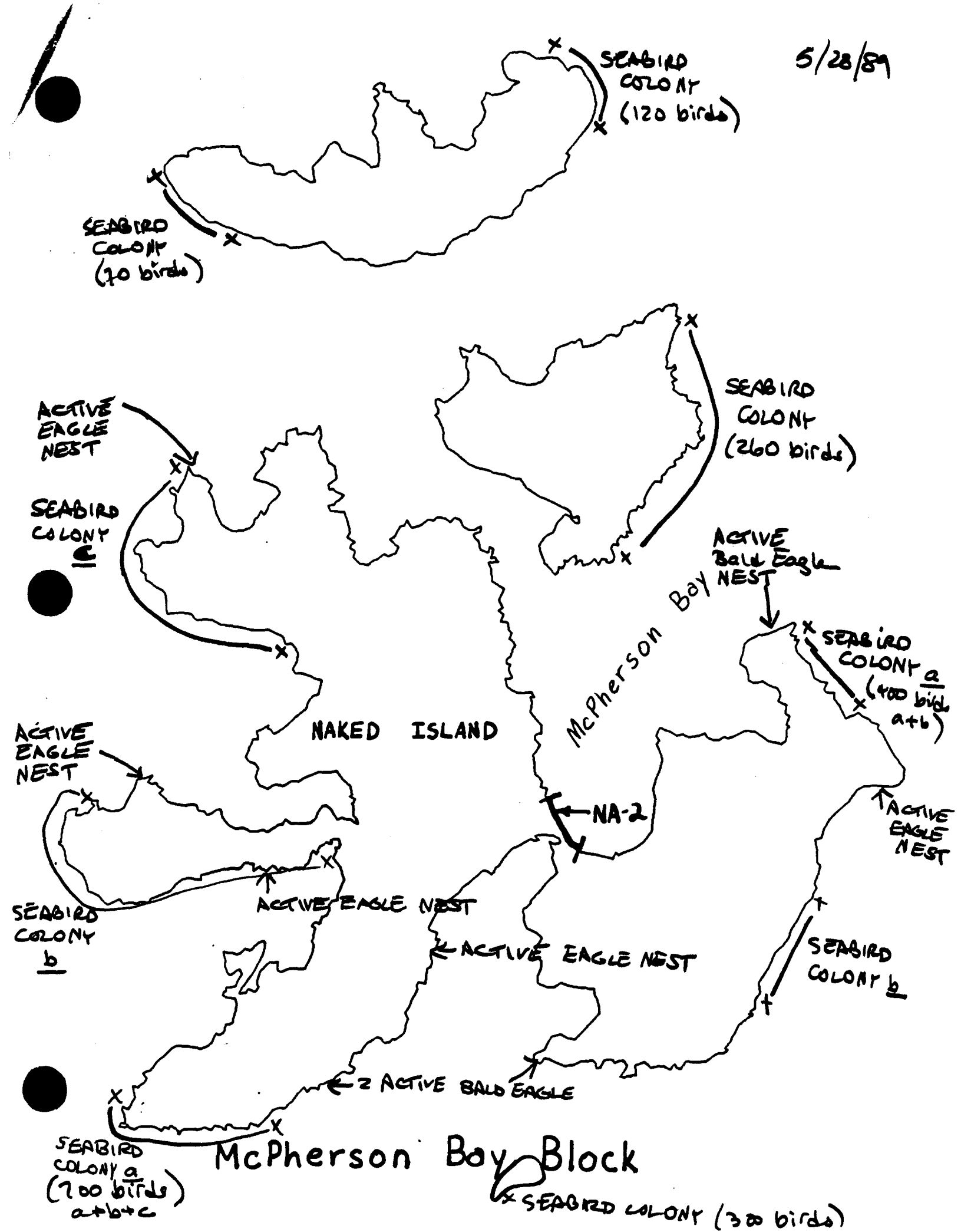
Observer(s) MOBLEY

Time survey started Time survey ended 11:33

Cultural resource considerations/restraints:

None but standard caution as to procedures for discovery of unexpected sites.

5/28/89



McPherson Bay Block

NA-MB (NA-2)

SHORELINE OIL EVALUATION [revised 11 Apr 89]

Date: 4 / 13 /89 Observor: [illegible]

Time: 12 h 30 m Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION [illegible] SITE East [illegible] Bay

LOCATION PREFIX NA LOCATION SUFFIX MB

LATITUDE: 6 d ____ m ____ s LONGITUDE: 147 d ____ m ____ s

LENGTH OF SHORELINE SEGMENT: 100 m

ACCESS: FOot/VEhicle/BOat/BArge/HEllo/Float Plane

SHORELINE

SHORELINE CHARACTER:

Open Coast ____ Sheltered Coast X

ROck Y/N VErtical/High Angle/Low Angle

SEdiment Y/N BEach/SPit/COve

SEDIMENT TYPE: B / C / P / G / S / M / R

OIL

LOCATION OF OIL: SU / SP / H / M / L

CONTINUOUS: Y/N WIDTH OF CONTINUOUS BAND: 10 m

PATCHY: 10 / 20 / 30 / 40 / 50 / 60 / 70 / 80 / 90 % coverage

EST. OIL THICKNESS: Film cm EST. OIL PENETRATION: 10 cm

POOLED OIL: Y/N "FREE" OIL: Y/N WEATHERED: Y/N

DOCUMENTATION

VTR: Y/N Tape Number(s) ____

PHOTOGRAPHY: Y/N Roll Number(s) 1/14,15

SAMPLE NUMBERS COLLECTED: ____

BIOLOGICAL EVALUATION OF OILED SHORELINES - PRECLEANUP

Shoreline Location: Naked Island Shore Segment: East McPherson Bay
Date: 4/13/89 Tide: 1400-1500 hrs low Weather: Sun
Shoreline Type: % by Type

	Rocks	Boulders	Cobbles	Gravel	Sand	Mud
Supratidal	←	100 %	→			
Intertidal		"				
Subtidal		"				

Percent Oil Coverage: High tide line__Intertidal__Offshore Sheen__

Oil Thickness, mm: High Tide Line___ Intertidal <1

Oil Penetration, cm: High tide Line___ Intertidal ±10

Type of Coverage: (Continuous) Patches Small Spots Tar Balls

High Tide Line:

Intertidal: Continuous film, heaviest at north end of segment

Biological Reconaissance

Dead Invertebrates on Shore: Species/Numbers ~~None noted~~ Dead barnacles at north end of segment

Living Invertebrates: Species/Numbers Nucella 750/m² in heavy Fucus cover at north end of segment, Littorina patchy (0-100/m²) Limpets rare, hermit crabs present

Condition of Living Invertebrates: Appear normal

Marine Mammal Activity: Species On/Offshore None noted

Diving Bird Activity: Species On/Offshore None noted

Overall Biological Condition of Shore:
Undamaged (Slightly Damaged) Severely Damaged Dead Nat. Depauperate

General Observations of Biological Conditions:

Recommended Spilled Oil Clean Up Approach: Wash/Flush

Special Precautions to Take During Clean Up: Try to not dislodge the smaller boulders with Fucus (rock weed) growing on them.

CLEANUP ASSESSMENT REPORT [10 Apr 89]

Assessment Date: 4 / 13 /89

Recommendation Date: 4 / 13 /89

LOCATION: Naked Island SITE: East McPherson Bay

LENGTH OF SEGMENT: 100 m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

RECOMMENDATION FOR CLEANUP TECHNIQUE:
Prepared By: _____

ECOLOGICAL CONSIDERATION/RESTRAINTS: (incl. ARCH.)
Prepared By: ~~Dave Hardin Charles~~ M. Mobley

Ecological restraints: do not over turn rocks covered with rockweed.

archaeology: have latrine facilities at south half of beach only
Potential for archaeology always exists. If discovered, please report to Exxon archaeologist C. Mobley

CLEANUP STARTED: _____/_____/89

CLEANUP FINISHED: _____/_____/8

KEY

LOCATION PREFIX

NAKED IS	NA
PEAK IS	PE
STOREY IS	ST
ELEANOR IS	EL
INGOT IS	IN
BLOCK IS	BL
ENTRANCE IS	EN
SPHINX IS	SP
DISK IS	DI
KNIGHT IS	KN
SMITH IS	SM
SEAL IS	SE
APPELGATE IS	AP
GREEN IS	GR

LOCATION SUFFIX

Use any 2 alphabet characters to describe the site or location

e.g.	BASS HARBOR	BH
	McPHERSON BAY	MB

Should be a geographic unit if possible.

KEY

BEACH LEVEL

SUPRATIDAL (+SHWL)	SU
HWL to SHWL	SP
UPPER 1/3 ITZ	H
MIDDLE 1/3 ITZ	M
LOWER 1/3 1TZ	L

SEDIMENT TYPE

BOULDER	(> 256 mm)	B
COBBLE	(64 - 256)	C
PEBBLE	(4 - 64)	P
GRANULE	(2 - 4)	G
SAND	(0.06- 2)	S
MUD	(< 0.06)	M
ROCK		R

Can use multiple entries e.g. C/G/S; in which case the first letter is the predominant sediment type and the following are in decreasing order

SAMPLE DEPTH

SURFACE	(0 - 3")	SF
SUBSURFACE	(6 - 12)	SU
DEEP	(> 12")	DP

Rec'd 5/15

GOAC 5/17

(version 5/13/89)

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Location (see enclosed map): NORTH, NAKED ISLAND, BLOCK

Includes Shoreline Segments: NA-5, NA-6

Submitted : H.F. Thomas Date: 5/15/89
(for Exxon)

FOSC Approval: D E Neibin Date: 5/18/89

Endorsed by Interagency Shoreline Cleanup Committee 5-17-89 [illegible] COR, NOAA

The cleanup procedures identified in the Shoreline Cleanup Program are recommended. Modifications to these systems can be made in the field. Exxon and other field personnel are encouraged to suggest innovations and productivity enhancements to the OSC's on-scene representative. The OSC's representative has the authority to approve on-site modifications. The Field Resource Team should be consulted if these actions do not fit within the Ecological Constraints of the Shoreline Cleanup Program. Requirements for safety and the protection of cultural material must be observed.

Distribution:

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Exxon Shoreline Supervisor
Exxon SCAT file

FOSC
CDFU
NOAA
EPA
USDA (FS)
USFW
A.DEC
A.FG
A.DNR
CAC
PWSCA
USFS
SHPO

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 5/14/89 SHORELINE SEGMENT NA-5

LOCATION: (see enclosed map) NAKED ISLAND - NORTHWEST COVE

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 5/14/89

Recommended Cleanup Activity (ies)

No cleanup recommended. No oil present.

Priorities Considerations:

None.

Ecological Constraints (from site survey):

Intertidal community is clean and healthy. No disturbance should occur.

Archeological Constraints (from site survey):
Limited archeological survey done due to lack of oil. If cleanup is planned, full archeological reconnaissance should be conducted.

Douglas Reger Date: 5/15/89
State Historic Preservation Officer *

EXXON: [signature] Date: 5/15/89

FOSC: _____ Date: _____

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

SHORELINE OIL EVALUATION

Date: 5/14/89 Time: 1600 Observer: ANDREA MEYER

Surveyed From: Foot/Boat/Helio/Plane Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION NAKED ISLAND SEGMENT NUMBER NA 5

LENGTH OF SHORELINE SEGMENT: _____ m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE:

Shoreline Type: SPI/BEA/COV/HLD/STRT Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B___% / C___% / P___% / G___% / S___% / M___% /R___% Varies - no mud or sa.

Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type Logs

OIL

Degree of Oiling: Heavy/Moderate/Light/No Oil/Unobserved

Area of Beach Impact: SU / SP / H / M / L

Continuous: Y/N % of Segment 0 Width of Band: 0 m

Sporadic: Y/N % of Segment 0

Est. Oil Thickness where > 1cm: 0 cm Est. Oil Penetration: 0 cm

Pooled Oil: 0 % "Free" Oil: 0 % Coated: H___% /M___% /L___%

Fresh 0 % Mousse 0 % Tar Formation: 0 %

Drift Debris Oiled ? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L/

Comments:

About nine 5" tarballs in mid tidal zone in fucus. Boulders/Cobbles all oil-free. Black stain on rock wall at high tide line, may have been weathered oil stain or may have been simply coloration - no oil present.

ECOLOGICAL EVALUATION

LOCATION: NAKED ISLAND SITE: NA 5 OBSERVER: ANDREA MEYER

LOCATION PREFIX: _____ SEG. NO.: _____ LENGTH: _____ (M)

DATE: 05/14/89 TIME (HHMM): 1600 TIDE HT.: _____ (M)

OILED ZONE: Splash High Medium Low

SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud

LIVE BIOTA

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

Alive. 9" x 12' Strip patchy oiled by tar balls - rest healthy

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

Alive

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

Alive

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

Alive

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

Alive

OTHER OBSERVATIONS: Basically not oiled - a few 5" tarballs Occassionally in mid tidal zone, primarily on fucus with live intertidal organisms all around.

CLEANUP PRECAUTIONS: No cleanup recommended - Biota in area healthy

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

BIRDS: _____

GENERAL OBSERVATIONS: _____

(Version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date May 14, 1989 Location Naked Island Site NW Cove

Location Prefix NA Segment # 5 Length

Survey Method:

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

Ground X (G - indicate on map)

Known cultural resources (AHRS #) none Data Source —

Oil conditions/beach visibility very light oil on headlands -- no oil on beaches

Width of beach zone surveyed 10 m Tree fringe surveyed 0m

Cultural resources observed in beach zone (AHRS code) none

Cultural resources observed in tree fringe (AHRS code) none

General observations justifying survey method and segment's site probability:

Shore Profile low energy beaches (15° slope) and headlands (20-30° slo

Fresh Water Sources several medium large streams

Sea Exposure northwest coast of Naked Island

Access/Safety easy access on the gravel beaches

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

Monitoring during cleanup needed (yes) no if not re-surveyed Collection yes/(no)

Photos: Color Roll # Frames

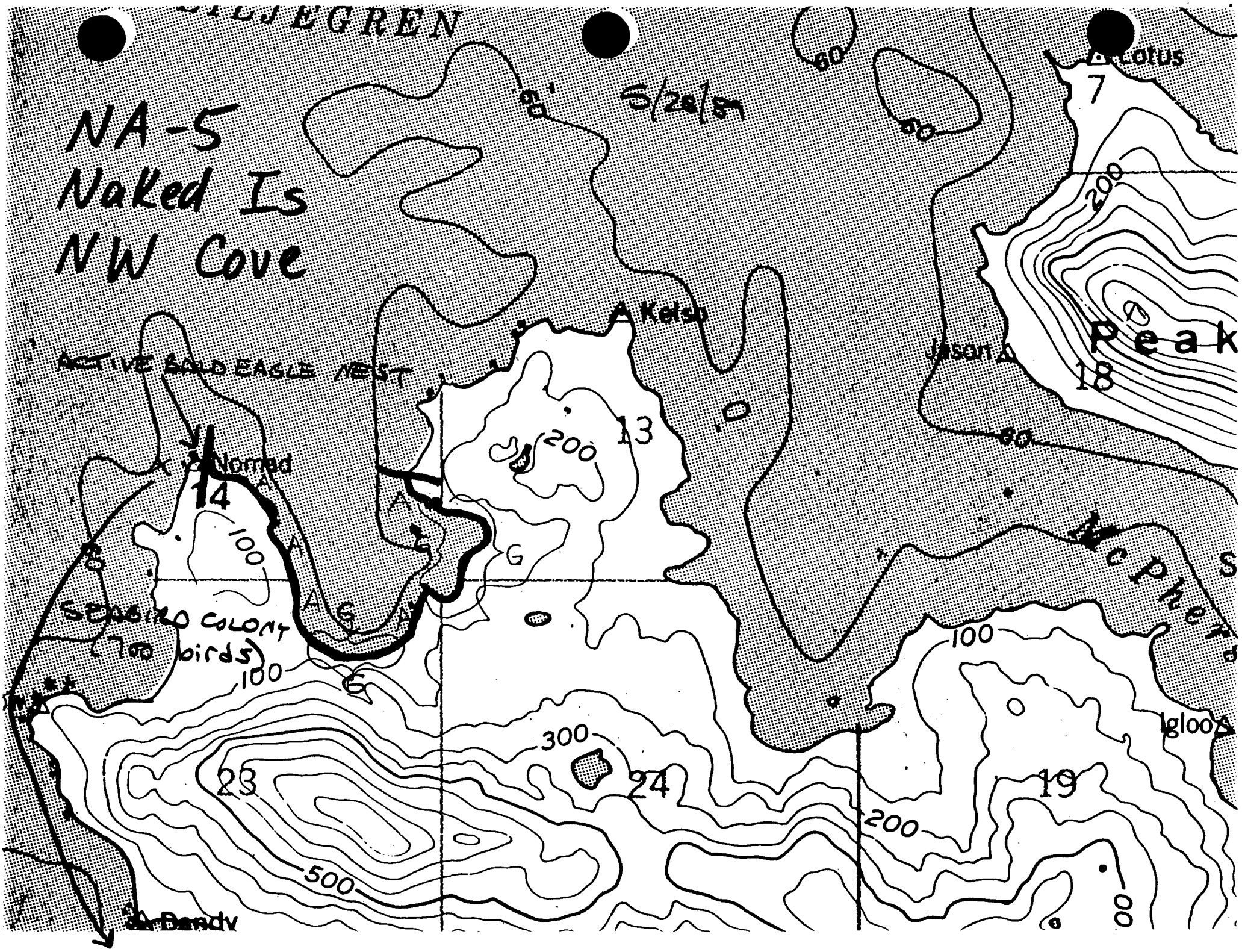
B/W Roll # — Frames —

Observer(s) Ludwig

Time survey started 1645 Time survey ended 1730

Cultural resource considerations/restraints:

Recommend no clean-up since there is only dark staining on the headlands and no oil on the beaches. If there are clean-up operation the area must be re-surveyed for archaeological sites. If heretofore undiscovered cultural remains are uncovered during cleanup, contact Exxon archaeological C. Mobley immediately (835-7749)


NA-5
Naked Is
NW Cove
5/28/87
ACTIVE BALD EAGLE NEST
Akelo
Jason
Peak
Lotus
Normad
Scoggins colony
(700 birds)
Igloo
Bandy
7
13
14
18
19
23
24
200
100
300
500
60
80

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 5/14/89 SHORELINE SEGMENT NA-6

LOCATION: (see enclosed map) NAKED ISLAND - McPHERSON BAY

ADEC NO. 41 SHORELINE ASSESSMENT DATE: 5/14/89

Recommended Cleanup Activity (ies)

No cleanup recommended. No oil observed.

Priorities Considerations:

None.

Ecological Constraints (from site survey):

Surveyed by helicopter only. Intertidal community is clean and healthy. No disturbance should occur.

Archeological Constraints (from site survey):
Limited archeological survey done due to lack of oil. If cleanup is planned, full archeological reconnaissance should be conducted.

Douglas Reger Date: 5/15/89
State Historic Preservation Officer *

EXXON: R.A. Bird Date: 5/15/89

FOSC: Date:

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

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 5/14/89 SHORELINE SEGMENT NA-6

LOCATION: (see enclosed map) NAKED ISLAND - McPHERSON BAY

ADEC NO. 41 SHORELINE ASSESSMENT DATE: 5/14/89

Recommended Cleanup Activity (ies)

No cleanup recommended. No oil observed.

Priorities Considerations:

None.

Ecological Constraints (from site survey):

Surveyed by helicopter only. Intertidal community is clean and healthy. No disturbance should occur.

Archeological Constraints (from site survey):
Limited archeological survey done due to lack of oil. If cleanup is planned, full archeological reconnaissance should be conducted.

Douglas Reger Date: 5/15/89
State Historic Preservation Officer *

EXXON: R.A. Reid Date: 5/15/89

FOSC: Date:

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

SHORELINE OIL EVALUATION

Date: 5/14/89 / Time:_____ Observer: ANDREA MEYER

Surveyed From: Foot/Boat/Helio/Plane Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION NAKED ISLAND SEGMENT NUMBER NA6

LENGTH OF SHORELINE SEGMENT:_____m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE:

Shoreline Type:SPI/BEA/COV/HLD/STRT Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B___% / C___% / P___% / G___% / S___% / M___% /R___%

Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type _____

OIL

Degree of Oiling: Heavy/Moderate/Light/No Oil/Unobserved

Area of Beach Impact: SU / SP / H / M / L

Continuous: Y/N % of Segment_____ Width of Band: _____m

Sporadic: Y/N % of Segment_____

Est. Oil Thickness where > 1cm:_____cm Est. Oil Penetration: _____cm

Pooled Oil: _____% "Free" Oil: _____% Coated: H____% /M____% /L____%

Fresh _____% Mousse _____% Tar Formation: _____%

Drift Debris Oiled ? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L/

Comments:

No oil observed from helicopter — continuous dark band on rocks above tide line could possibly be an oil stain. Similar dark band on N5 when walked was oil free.

version: 4/24/89

ECOLOGICAL EVALUATION

LOCATION: NAKED ISLAND SITE: NA6 OBSERVER: ANDREA MEYER

LOCATION PREFIX:_____ SEG. NO.:_____ LENGTH:_____(M)

DATE: 05/14/89 TIME (HHMM): 1600 TIDE HT.:_____(M)

OILED ZONE: Splash High Medium Low

SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud

LIVE BIOTA

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

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

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

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

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

OTHER OBSERVATIONS: _____

CLEANUP PRECAUTIONS: _____

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

BIRDS: _____

GENERAL OBSERVATIONS: AREA VIEWED ONLY BY HELICOPTER — LIVE BIOTA COULD NOT BE ASCERTAINED. NO OIL IN AREA.

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date May 14, 1989 Location Naked Island Site McPherson Bay

Location Prefix NA Segment # 6 Length

Survey Method:

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

Ground (G - indicate on map)

Known cultural resources (AHRS #) none Data Source —

Oil conditions/beach visibility very light oil on headlands, no oil on beaches

Width of beach zone surveyed 10 m Tree fringe surveyed 0m

Cultural resources observed in beach zone (AHRS code) none

Cultural resources observed in tree fringe (AHRS code) none

General observations justifying survey method and segment's site probability:

Shore Profile low energy beaches (15° slope) and headlands (20-30°s

Fresh Water Sources streams

Sea Exposure NE coast of Naked Island

Access/Safety fairly easy access on the gravel beaches

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

Monitoring during cleanup needed (yes) no if no ground survey Collection yes (no)

Photos: Color Roll # — Frames —

B/W Roll # — Frames —

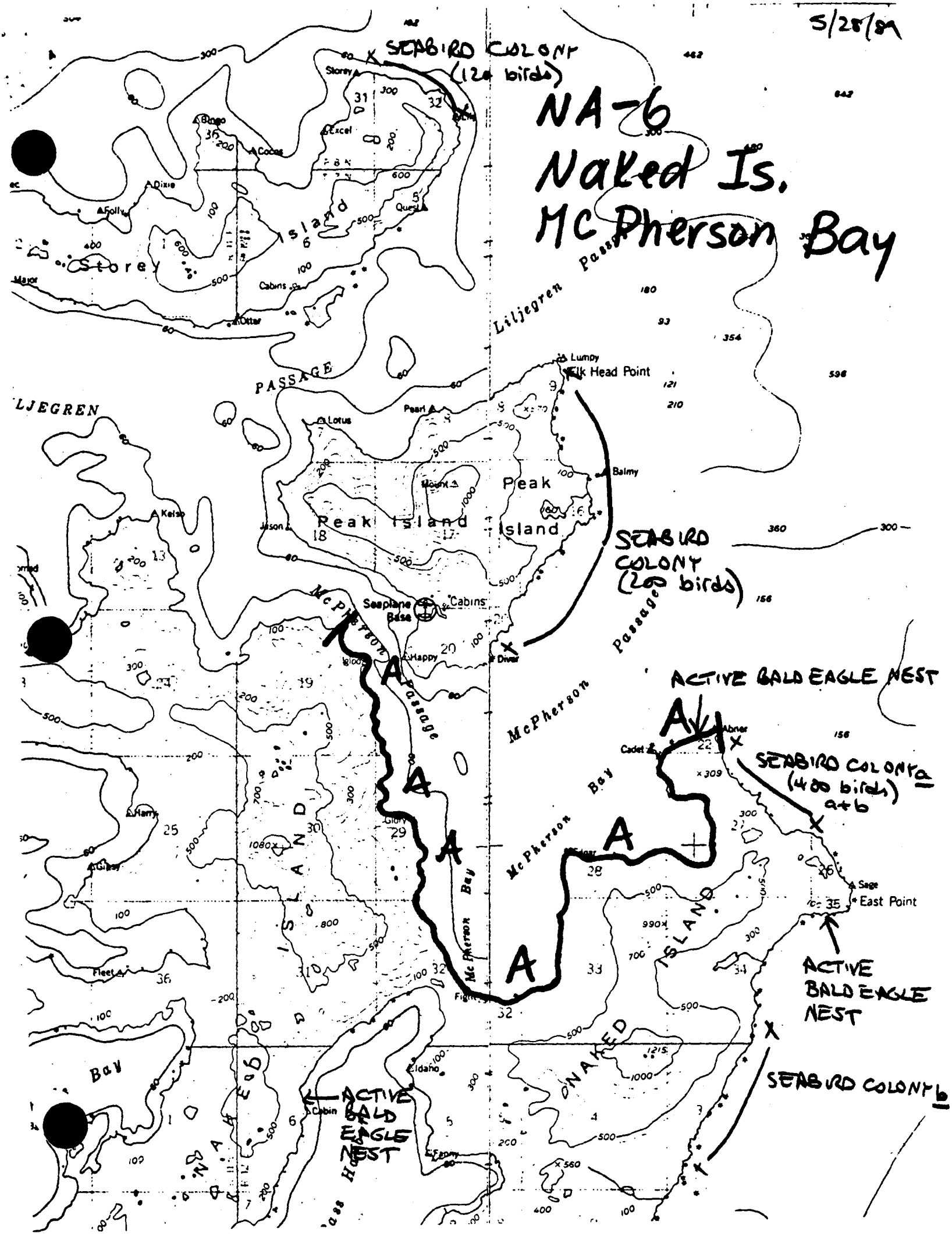
Observer(s) Ludwig

Time survey started 1800 Time survey ended 1830

Cultural resource considerations/restraints:

Recommend no clean-up since there is only dark staining on the headlands and no oil on the beaches. If there are clean-up operations, a ground survey for archaeological sites must first be conducted. If heretofore undiscovered cultural remains are uncovered during cleanup, contact Exxon archaeologist C. Mobley immediately (835-7749)

5/28/89


NA-6
Naked Is.
McPherson Bay
SEABIRD COLONY (120 birds)
SEABIRD COLONY (200 birds)
ACTIVE BALD EAGLE NEST
SEABIRD COLONY a (400 birds) a+b
ACTIVE BALD EAGLE NEST
SEABIRD COLONY b
ACTIVE BALD EAGLE NEST
Storey Island
Liljegren Passage
Elk Head Point
Peak Island
Seaplane Base
McPherson Passage
McPherson Bay
Naked Island
East Point
Sage
Lumpy
Balmy
Lotus
Pearl
Kelso
Jason
Happy
Diver
Cadet
Abner
Harry
Gilsey
Glory
Fleet
Idaho
Cabin
Excel
Cocos
Dixie
Folly
Quest
Cabins
Otter
Bingo
Storey
Major

EXXON VALDEZ

SHORELINE TREATMENT APPROVAL

SHORELINE SEGMENT NUMBER NA-5

SHORELINE SEGMENT NAME Naked Island

SUBMITTED FOR APPROVAL 5 / 19 / 89

COMMENTS:

Environmentaly clean

William Stirling
Signature of EXXON rep

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

ADEC representative was not present.
GAR

Signature of ADEC rep

Coast Guard Comments and Action.

____ Completed removal of gross contamination to the extent that the oil will not migrate. Site will require reassessment at a later date to determine future treatment.

✓ The majority of surface oil contamination has been removed. The site will require reassessment at a later date to determine future treatment. Inspected 5/19/89

____ All contamination has been removed. No further treatment required unless re-oiled.

G.A. Reiter 5/24/89
Signature of Coast Guard rep

XC: ADEC
EXXON
FSOC

EXXON VALDEZ

SHORELINE TREATMENT APPROVAL

SHORELINE SEGMENT NUMBER ~~1-26~~ DAM NA-2

SHORELINE SEGMENT NAME McPHERSON PASSAGE

SUBMITTED FOR APPROVAL 5/25/ 89

COMMENTS:

WILL COMPLETE "SNARING" MINOR POCKETS (04) THIS DATE AND MONITOR SEGMENT OVER NEXT 3-5 DAYS

James J. F. Letcher
Signature of EXXON rep

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

Signature of ADEC rep

Coast Guard Comments and Action.

____ Completed removal of gross contamination to the extent that the oil will not migrate. Site will require reassessment at a later date to determine future treatment.

NA The majority of surface oil contamination has been removed. The site will require reassessment at a later date to determine future treatment.

____ All contamination has been removed. No further treatment required unless re-oiled.

Richard G. Gaudioni LT. USCG
Signature of Coast Guard rep

XC: ADEC
EXXON
FSOC

EXXON VALDEZ

SHORELINE TREATMENT APPROVAL

SHORELINE SEGMENT NUMBER NR6 (NR2)

SHORELINE SEGMENT NAME McPHERSON PASSAGE - NAKED ISLAND

SUBMITTED FOR APPROVAL 5/25/ 89

COMMENTS:

WILL Complete "SNARING" MINOR POCKETS (04) THIS DATE AND MONITOR SEGMENT OVER NEXT 3-5 DAYS

James L. Fletcher
Signature of EXXON rep

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

Signature of ADEC rep

Coast Guard Comments and Action.

X Completed removal of gross contamination to the extent that the oil will not migrate. Site will require reassessment at a later date to determine future treatment.

GB X The majority of surface oil contamination has been removed. The site will require reassessment at a later date to determine future treatment.

____ All contamination has been removed. No further treatment required unless re-oiled.

Richard M. Gaudion LT USCG
Signature of Coast Guard rep

XC: ADEC
EXXON
FSOC

ISCC 8/28/89
No cleanup recommended.
No seabird colonies or active eagle nests in area

(version 8/04/89)

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Location (see enclosed map): NAKED ISLAND BLOCK

Includes Shoreline Segments: NA-20, NA-21

Submitted : Scott A. Norman (for Exxon) Date: 8/22/89

ISCC Recommendation: Sharon K. Christopher Date: 8/28/89

FOSC Approval: David Zuraffi Date: 8/28/89

The cleanup procedures identified in the Shoreline Cleanup Program are recommended. Modifications to these systems can be made in the field. Exxon and other field personnel are encouraged to suggest innovations and productivity enhancements to the OSC's on-scene representative. The OSC's representative has the authority to approve on-site modifications. The Field Resource Team should be consulted if these actions do not fit within the Ecological Constraints of the Shoreline Cleanup Program. Requirements for safety and the protection of cultural material must be observed.

Distribution:

Exxon Shoreline Coordinator
Exxon Shoreline Supervisor
Exxon SCAT file

SHPO
FOSC
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NOAA
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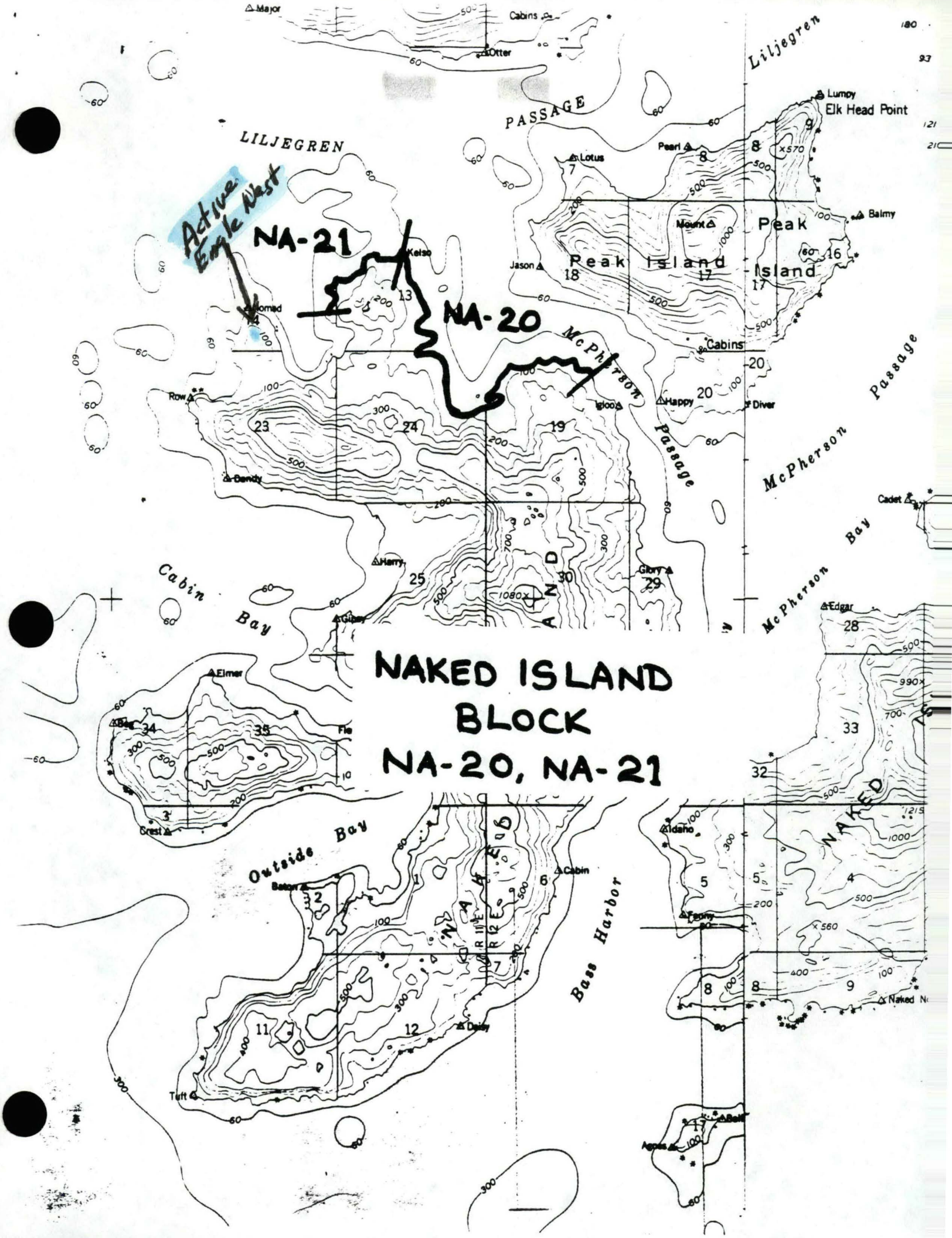
USDA (FS)
USFW
A.DEC
A.FG
A.DNR
CAC
PWSCA
USFS


NAKED ISLAND
BLOCK
NA-20, NA-21
NA-21
NA-20
Active Eagle Nest
LILJEGREN
PASSAGE
Liljegren
Elk Head Point
Peak Island
McPherson Passage
McPherson Bay
Cabin Bay
Outside Bay
Bass Harbor
NAKED
Major
Cabins
Otter
Lumpy
Pearl
Lotus
Balmy
Mount
Jason
Kelso
Nomad
Cabins
Happy
Diver
Igloo
Row
Bandy
Harry
Glory
Gibby
Edgar
Cadet
Elmer
Crest
Baton
Cabin
Daisy
Tuft
Idaho
Fenny
Agnes
Bell
Naked N

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 8/22/89 SHORELINE SEGMENT NA-20

LOCATION: (see enclosed map) NAKED ISLAND-NORTH SHORE

(NAKED ISLAND BLOCK)

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 8/17/89

Recommended Cleanup Activity(ies):
No cleanup recommended at this time (subject to FOSC reassessment at a later date), due to no oil.

Priorities Considerations:
No oil
Medium recreational use

Ecological Constraints (from site survey):
No constraints due to no oil.

Archeological Constraints (from site survey):
If cleanup is conducted, an on the ground archaeological survey is required before cleanup. If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon's Archeological Field Director and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

Rolle Bizzell — Date: 8/23/89
State Historic Preservation Officer *

ISCC: Sharon K Christopherson — Date: 8/28/89

EXXON: [illegible] — Date: 8.28.89

FOSC: David Zaunfin — Date: 8/28/89

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

SHORELINE OIL EVALUATION

Date: 8/7/89 / Time: 13:20 Observer: G. MACDONALD.

Surveyed From: Foot/Boat/Helio/Plane Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION N.W. Naked Island SEGMENT NUMBER NA-20

LENGTH OF SHORELINE SEGMENT: 4,050 m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

shallow draft only.

SHORELINE:

pockets BAY rock walls.

Shoreline Type: SPI/BEA/COV/HLD/STRT Slope: LANG/HANG/VER

occasional bldr-cob pockets.

Wave Exposure: High/Med/Low

Sediment: B 10 % / C 15 % / P 5 % / G TRACE % / S ___ % / M ___ % / R 70 %

Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type _____

OIL

Degree of Oiling: Heavy/Moderate/Light/No Oil/Unobserved

Area of Beach Impact: SU / SP / H / M / L N/A

Continuous: Y/N % of Segment _____ Width of Band: _____ m

Sporadic: Y/N % of Segment _____

Est. Oil Thickness where > 1cm: _____ cm Est. Oil Penetration: _____ cm

Pooled Oil: _____ % "Free" Oil: _____ % Coated: H ___ % / M ___ % / L ___ %

Fresh _____ % Mousse _____ % Tar Formation: _____ %

Drift Debris Oiled ? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L/

Comments:

Exposed rocky shore w/ bldr-cob veneer over bedrock.

a faint tract of tar, < 2 cm wide & 3 m long, was noted @ W. end of SEGMENT.

No treatment.

Page 2. - no photos; map attached; no video or samples.

0/7 Segment NA-20

NW Naked Island 13.20 HRS

steep sheltered rocky shore w/ occas. bldr-cob strands; no oil. steeply bedded sediments - slates & siltst. conspicuous black lichen band @ supra Z. → Δ Kelso EOS.

W. of Δ Kelso:- 17.55 HRS

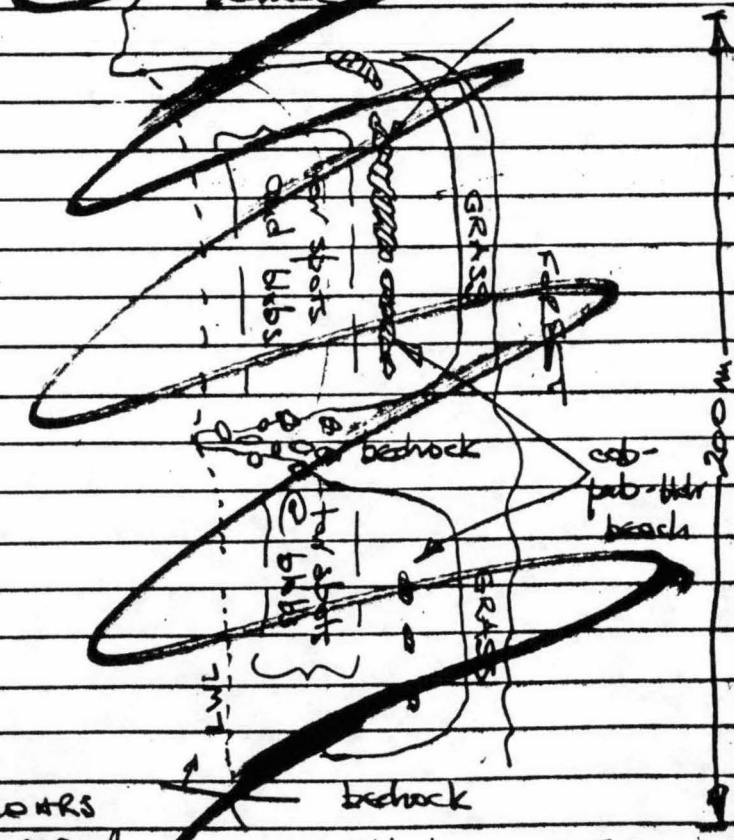
① mod L. bldr-cob pocket; mod.-hv exposure W. of Δ Kelso; asphalt coated cobs, lichens & barnacles. HITZ - Splash Z.; 60 m long x 12 m wide, ≤10 penetration; well mod. cobs; ~2 bags of sorbent / debris on edge of grassland @ supra Z; soft thin tar, < 1/2 mm thk; sketch ✓ note; trace old pavement asphalt as noted in PK-1; not crude.

② exposed pebble pocket beach w/ tar coat ~17 m x 12 x 15 mm; mod. L. beach; < 1/2 mm thk; evidence of some prior cleaning.

halt @ 15.20 HRS

restart @ 20.30 HRS

location 3:- cob-peb-bldr-bedrock beach, low L, mod. exposure. penetration < 15 mm; tar coating 1/2 mm thick; pavement @ HWL.



21.30 HRS

End of SEGMENT

Splash → MITZ

ECOLOGICAL EVALUATION

LOCATION: Prince William Sd SITE: Naked Island OBSERVER: E.R. White

LOCATION PREFIX: NA SEG. NO.: 20 LENGTH: 4050 (M)

DATE: 08 / 07 / 89 TIME (HHMM): 1320-1355 TIDE HT.: 0.8-1.2 (M)

OILED ZONE: Splash High Medium Low Ø

SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud

LIVE BIOTA

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

discontinuous Fucus on beaches // often with Halosaccion + Laminaria @ low/mid intertidal elevations

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

discontinuous dense beds on rock // none in beach faces

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

continuous throughout - sometimes dense spat set in localized areas

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

continuous throughout

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

- sometimes throughout + sometimes dense associations at high tide elevations

OTHER OBSERVATIONS: some eelgrass @ sub tidal elevations

CLEANUP PRECAUTIONS: no oil / no clean up / no precautions

MAMMALS: Otters 4 ___ Harbor Seals ___ Sea Lions ___ Whales ___
Other ___

BIRDS: assorted seagulls (10-20) / pidgeon guillemots (6-10)

GENERAL OBSERVATIONS: ___

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 8-7-89 Location Naked Is. Site

Location Prefix NA Segment # NA-20 Length 4050 m

Survey Method:

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

Ground (G - indicate on map)

Known cultural resources (AHRS #) none Data Source —

Oil conditions/beach visibility trace

Width of beach zone surveyed 5 m Tree fringe surveyed 0

Cultural resources observed in beach zone (AHRS code) none

Cultural resources observed in tree fringe (AHRS code) none

General observations justifying survey method and segment's site probability

Shore Profile low angle to vertical walls

Fresh Water Sources 3+ streams

Sea Exposure sheltered

Access/Safety good.

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

Monitoring during cleanup needed yes/(no) Collection yes/(no)

Photos: Color Roll # — Frames —

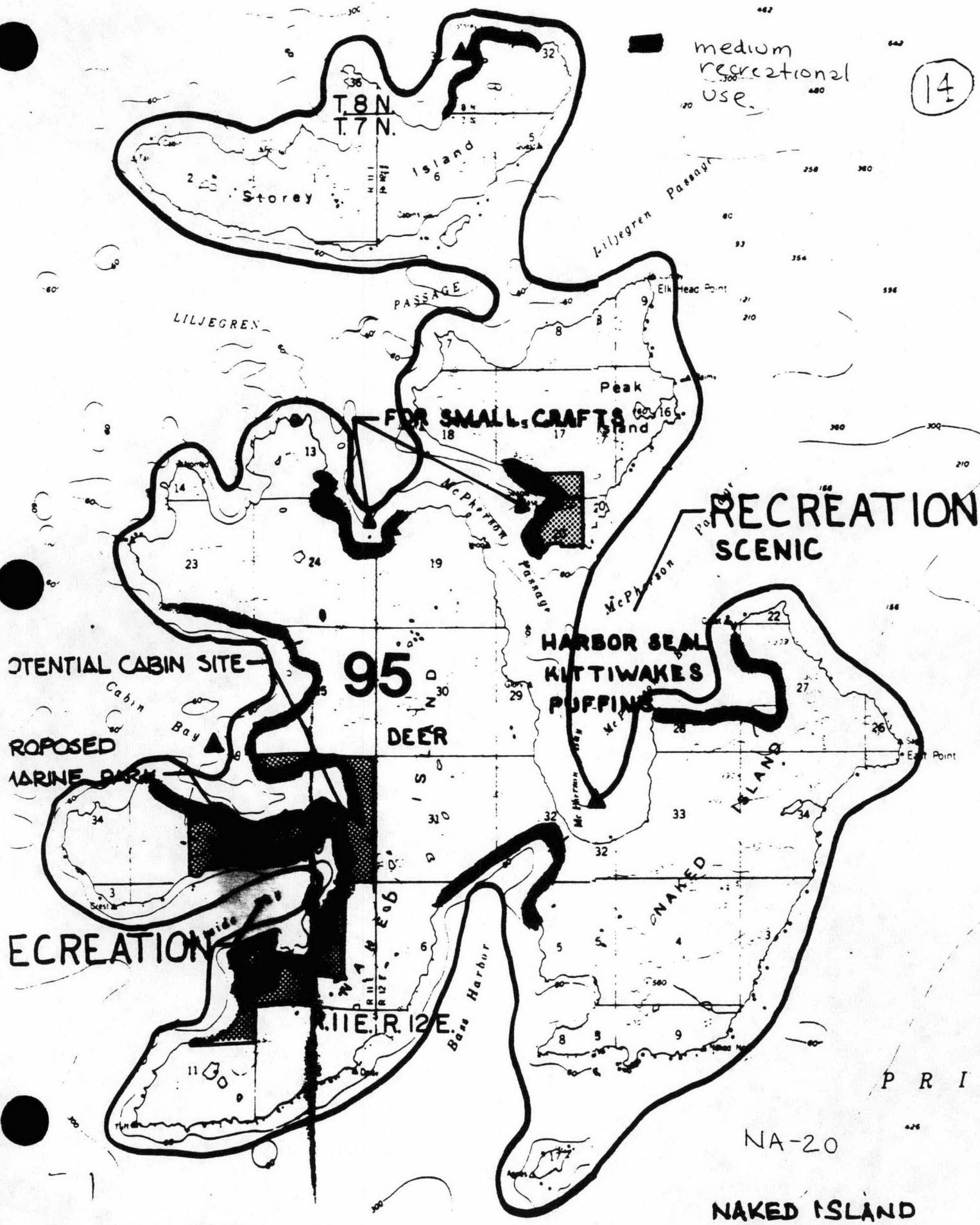
B/W Roll # — Frames —

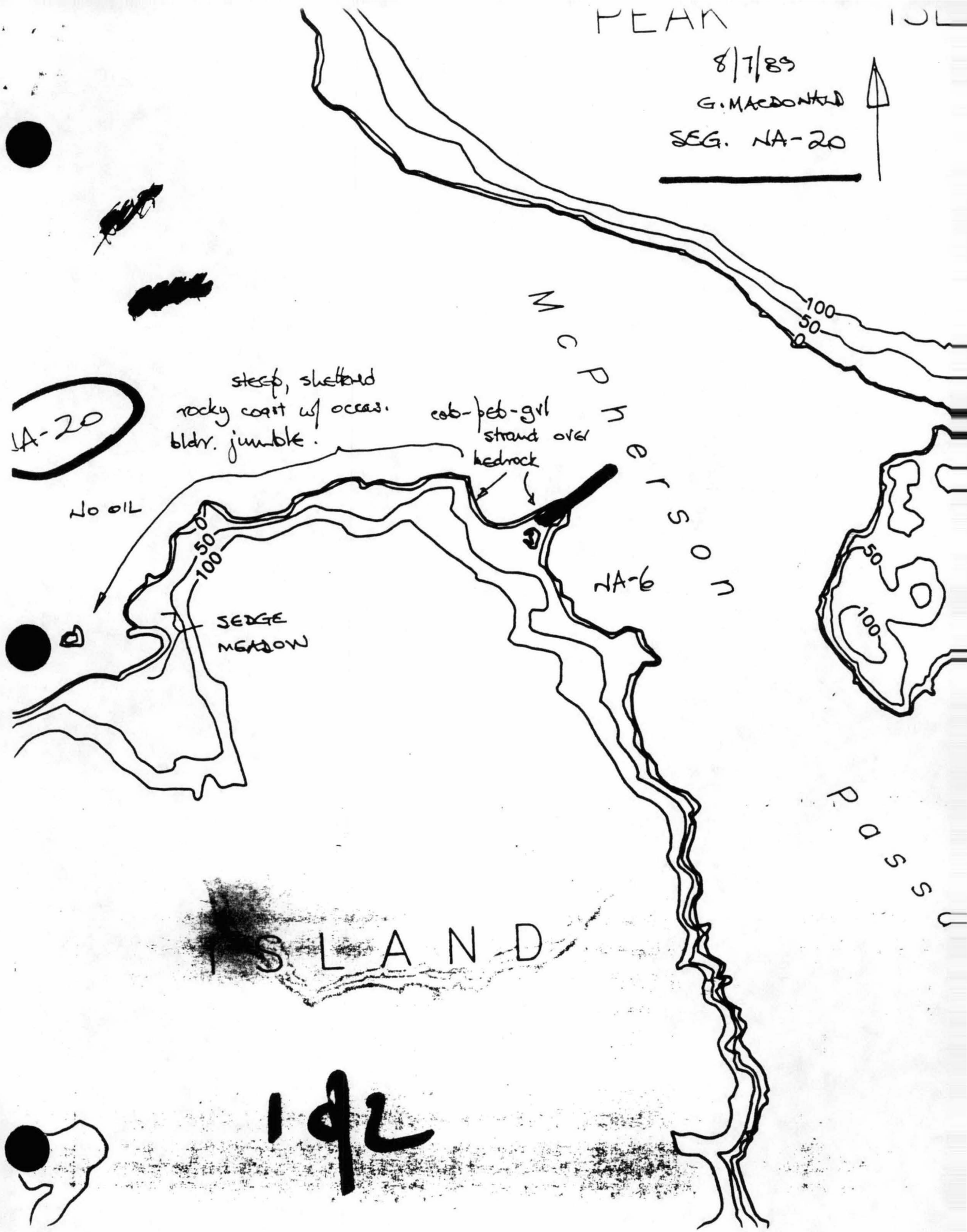
Observer(s) P. G. Philippen

Time survey started 1320 Time survey ended 1555

Cultural resource considerations/restraints:

Standard


medium recreational use.
14
T.8 N.
T.7 N.
Storey
Island
Liljegren Passage
LILJEGREN
PASSAGE
Elk Head Point
Peak
Island
FOR SMALL CRAFTS
McPherson Passage
RECREATION:
SCENIC
HARBOR SEAL
KITTIWAKES
PUFFINS
POTENTIAL CABIN SITE
Cabin Bay
95
DEER
PROPOSED
MARINE PARK
East Point
NAKED ISLAND
RECREATION
R.11E. R.12E.
Bass Harbor
PRIN
NA-20
NAKED ISLAND


PEAR
8/7/89
G. MACDONALD
SEG. NA-20
McPherson
100
50
0
steep, sheltered
rocky coast w/ occas.
bldr. jumble.
cob-peb-grvl
strand over
bedrock
NA-20
NO OIL
0
50
100
NA-6
SEDGE
MEADOW
50
100
Pass
ISLAND
192


KEISO HV
bags of oily sorbent
"heavy" - mod. oil as tar coat on bldrs, cobs.
12m x 60m long.
<10cm penetr.
steep rocky shore, mod. sheltered; w/ occas. bldr-cob. beach.
trace 1cm tar line @ HWL
trace:- tar pavement @ HWL & spots @ MHTZ → HHTZ supra.
NA-21
END of SEGMENT
bldr-peb. beach. 12m x 12m tar coat over @ HHTZ - splash.
peb. pocket
NA-20
<3m long rare faint tr 1cm wide tar line @ HWL mod ∠, b cob. beach. NO OIL
NA-5
0
50
100

242

NAKED


100
0
50

(version 6/14/89)

SHORELINE CLEANUP PROGRAM

DATE 8/22/89 SHORELINE SEGMENT NA-21

LOCATION: (see enclosed map) NAKED ISLAND-NORTHWEST SHORE

(NAKED ISLAND BLOCK)

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 8/7/89

-/28/89 =T 8.28.89

Recommended Cleanup Activity(ies):
- Manually remove bags of oiled sorbants and debris. ~~and~~ Remove weathered oil if possible.
- Use bioremediation if possible.
- No other cleanup recommended at this time due to high wave exposure and degree of weathering of the oil.

Priorities Considerations:
Class 2-4: Heavy to light oil
A: Resources present

Ecological Constraints (from site survey): Work at mid tide + or take appropriate measures to protect lower intertidal zone. Minimize disturbance, including foot traffic, to lower beach faces.

Archeological Constraints (from site survey):
If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon's Archeological Field Director and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

State Historic Preservation Officer * Date: 8/23/89

ISCC: Sharon K. Christopherson Date: 8/28/89

EXXON: Daniel L. Tift Date: 8.28.89

FOSC: David Zaunder Date: 8/28/89

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

SHORELINE OIL EVALUATION

Date: 8/7/89 Time: 13·55 Observer: G. MACDONALD

Surveyed From: (Foot)/(Boat)/Helio/Plane Weather: (Sun)/Cloud/Rain/Snow/Fo

LOCATION

LOCATION NW. Naked Island. SEGMENT NUMBER NA-21

LENGTH OF SHORELINE SEGMENT: 1,520 m

ACCESS: Foot/Vehicle/(Boat)/(Barge)/Helio/Float Plane
shallow draft only.

SHORELINE:

Shoreline Type: SPI/(BEA)/COV/(HLD)/STRT Slope: LANG/(HANG)/VER

Wave Exposure: (High)/(Med)/Low

Sediment: B 20 % / C 10 % / P 5 % / G 5 % / S TRACE % / M ___ % / R 60 %

Drift Debris on Beach: Yes/(No) Supra/Upper/Mid/Lower Type _____

OIL

loc^n (1) & (2) loc^n (3)

Degree of Oiling: (Heavy)/Moderate/(Light)/No Oil/Unobserved

Area of Beach Impact: SU / (SP) / (H) / M / L

Continuous: Y/(N) % of Segment _____ Width of Band: ≤ 12 m

Sporadic: (Y)/N % of Segment ~20%

Est. Oil Thickness where > 1cm: _____ cm Est. Oil Penetration: ≤ 10 cm

Pooled Oil: _____ % "Free" Oil: _____ % (Coated): H 10 % / M 70 % / L 10 %

Fresh _____ % Mousse 10 % Tar Formation: 90 %

Drift Debris Oiled ? Yes/(No) Supra/Upper/Mid/Lower Amount: H/M/L/

Comments:

20+ bags Oiled sorbents & debris lying on beach @ loc^n. (1)

Exposed rocky headland w/ mod. ∠. pocket beaches.

[illegible]:

Map/Aerial photo marking segment boundaries attached

VTR: Y/N Tape Number(s) None

Photography: Y/N Roll Number(s) T1W1 (12-25) & (26-28)

Sample Numbers Collected: no

8/7 Segment [redacted]

[redacted] Island . 13.20 HRS

[redacted] of occ[redacted] cob strands, no oil . steeply bedded sediments - slates & silts [redacted] band @

8/7 Segment HA-21

W. of Δ Kelso :- 13.55 HRS

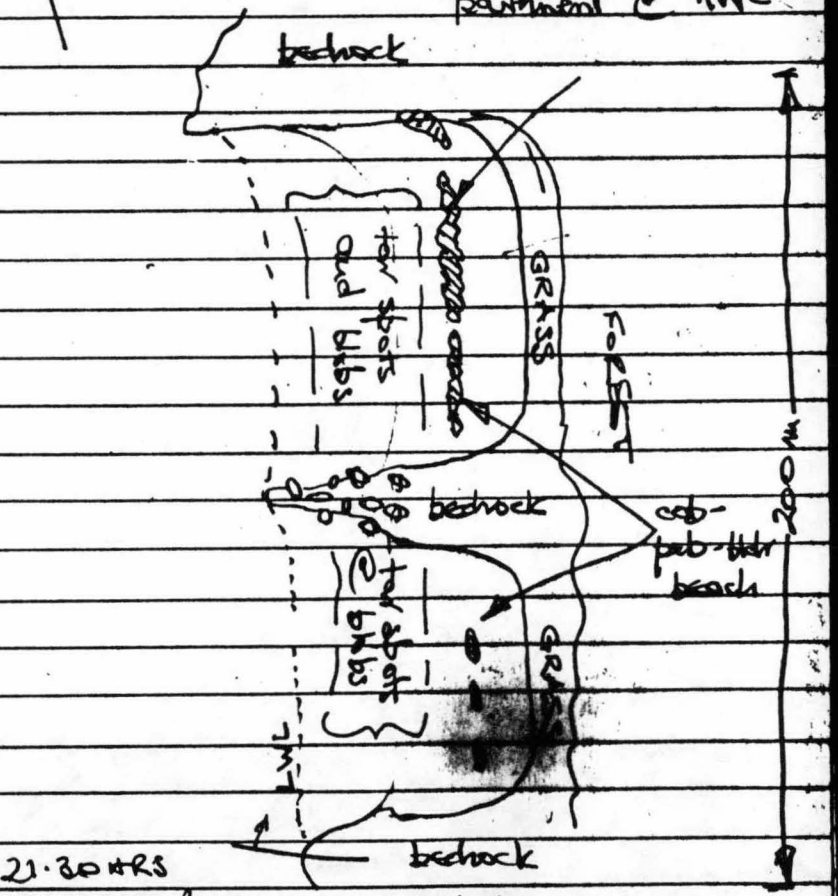
① mod L. bldr-cob pocket ; mod.-hi exposure W. of Δ KELSO ; asphalt coated cobs, blds & bedrock @ HITZ - Splash Z. ; 60 m long x 12 m wide, <10 penetration ; well rnd. cobs ;
~25 bags of sorbent / debris on edge of grassland @ supra. Z ; soft thin tar, < 1/2 mm tk ; . Sketch ✓.
Note : trace old pavement asphalt as noted in PK-1 ; not crude.

② exposed pebble pocket beach w/ tar [redacted] ~12 m x 12 x 15 mm ; lo-mod. L beach ; < 1/2 mm tk ; evidence of some faint self cleaning.

halt @
15.20 HRS

restart @ 20-30 HRS

location 3 :- cob-peb-bldr-bedrock beach, low L, mod. exposure. penetration < 15 mm ; tar coating. 1/2 m band of tar pavement @ HWL



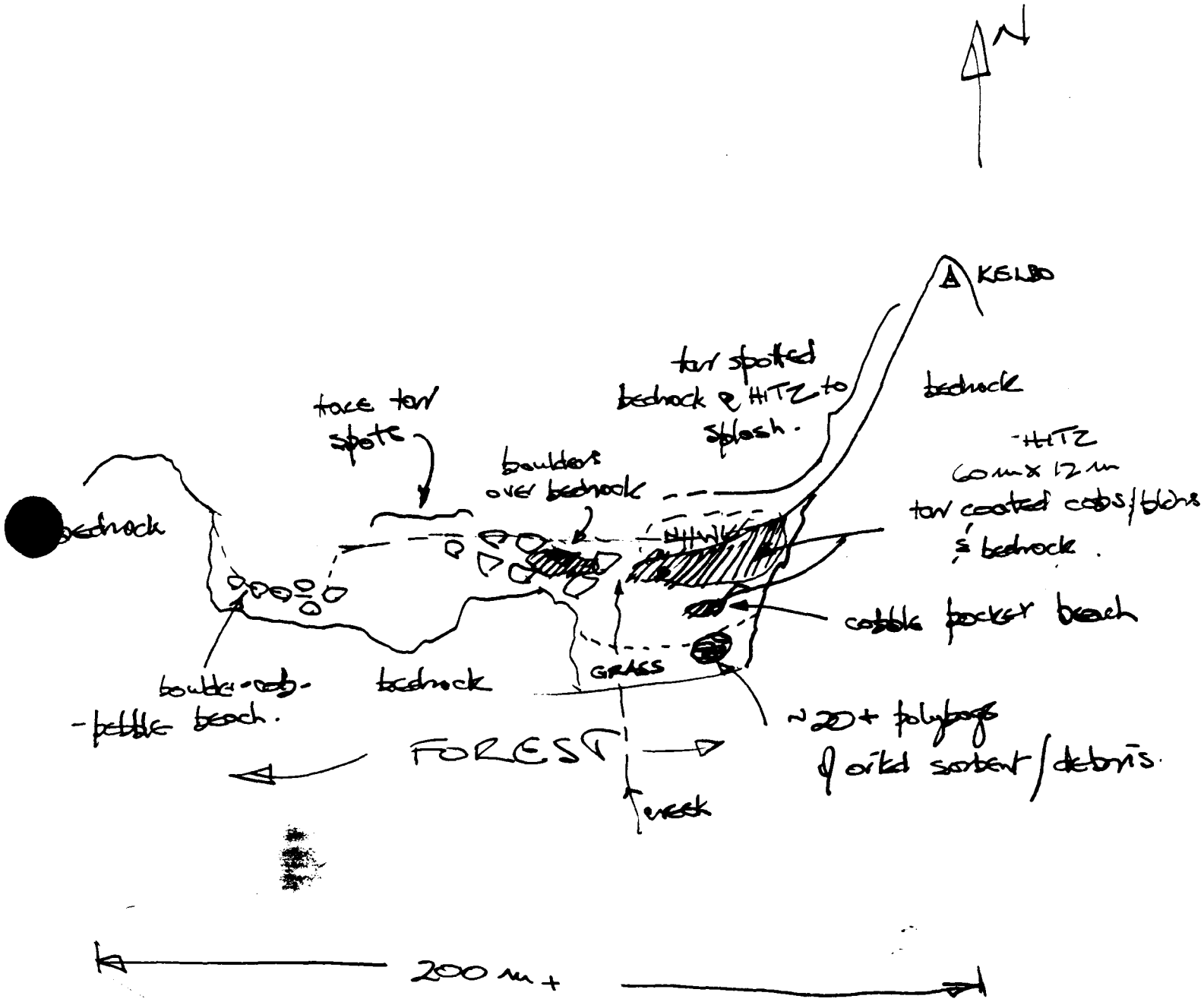
21.30 HRS
END of SEGMENT

SEGMENT NA-21

location ①, (map attached)

8/7/89 p.m

G. MACDONALD



ECOLOGICAL EVALUATION

LOCATION: Prince William Sd SITE: Naked Is. OBSERVER: E. R. White

LOCATION PREFIX: NA SEG. NO.: 21 LENGTH: 1,520 (M)

DATE: 08 / 07 / 89 TIME (HHMM): 1355-1400 TIDE HT.: 1.3-2.0 (M)

OILED ZONE: Splash High Medium Low

SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud

LIVE BIOTA

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

-continuous on rock / patchy on beaches

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

-scattered dense colonies on rock

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

continuous throughout

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

associated with fucus

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

on coarse cobbles & on rocks @ high tide elevations

OTHER OBSERVATIONS:

CLEANUP PRECAUTIONS: do NOT contaminate unoiled lower intertidal/ minimize disturbance to lower beach faces ⇒ this includes foot traffic

MAMMALS: Otters 6 - 1♀ with pup Harbor Seals ___ Sea Lions ___ Whales ___
Other

BIRDS: 90% ♂ crows.

GENERAL OBSERVATIONS:

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 8-7-89 Location Nakal Is. Site

Location Prefix NA- Segment # NA-21 Length 1520

Survey Method:

Air (A - indicate on map) Boat ✓ (A - indicate on ma

Ground ✓ (G - indicate on map)

Known cultural resources (AHRS #) None Data Source —

Oil conditions/beach visibility heavy/need to trace

Width of beach zone surveyed 10 m Tree fringe surveyed 5-10m

Cultural resources observed in beach zone (AHRS code) none

Cultural resources observed in tree fringe (AHRS code) CMT (sawn stump)

General observations justifying survey method and segment's site probabilit

Shore Profile pocket beaches, vertical walls (4-8m)

Fresh Water Sources 3+ streams

Sea Exposure mostly well protected

Access/Safety good

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

Monitoring during cleanup needed yes/(no) Collection yes/(no)

Photos: Color Roll # — Frames —

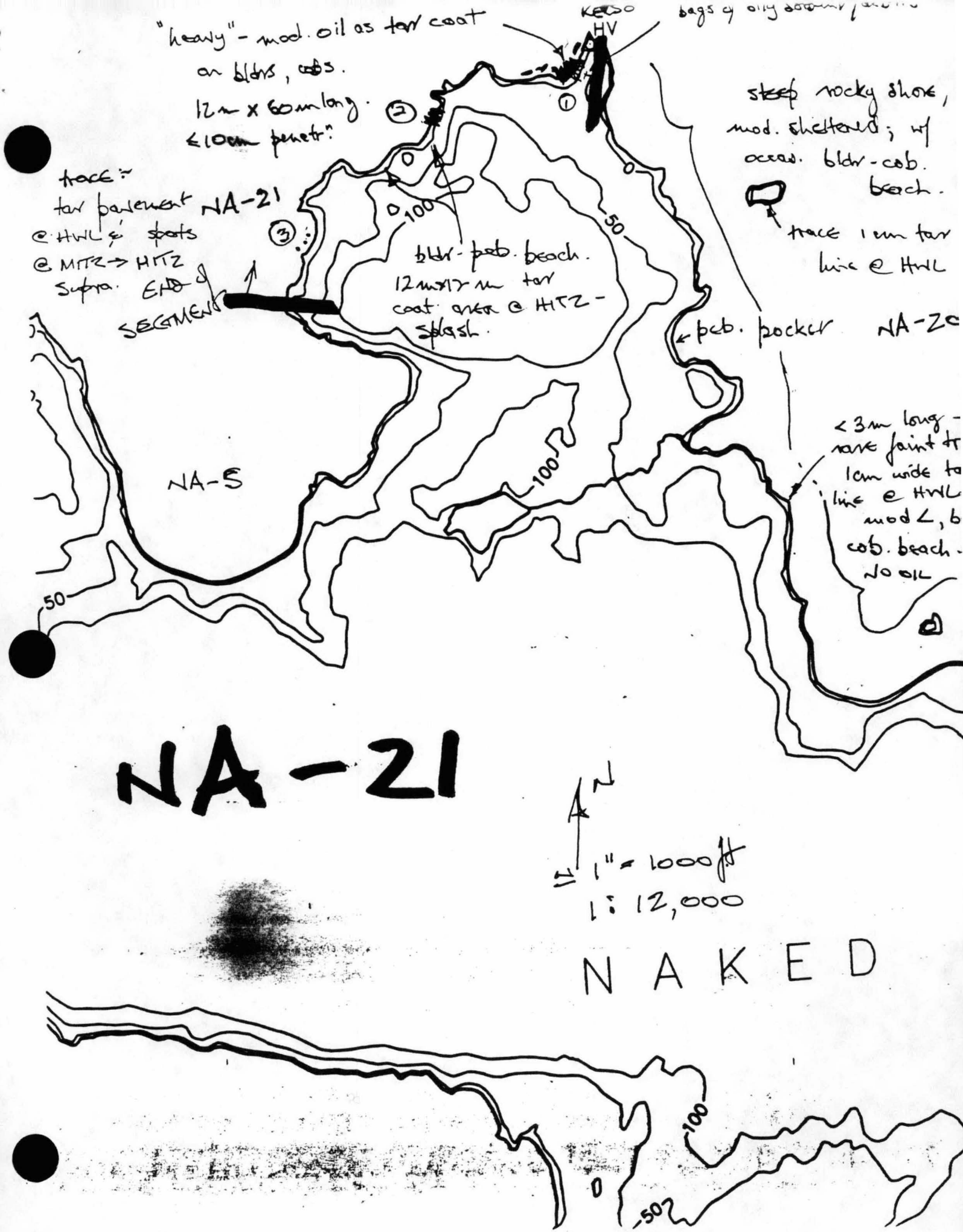
B/W Roll # — Frames —

Observer(s) P.G. Philippen

Time survey started 1400 Time survey ended 1520

Cultural resource considerations/restraints:

Standard


"heavy" - mod. oil as tar coat
on bldrs, cobs.
12m x 60m long.
<10cm penetr.
KEDO
HV
steep rocky shore,
mod. sheltered; w/
occas. bldr-cob.
beach.
trace 1cm tar
line @ HWL
trace:
tar pavement
@ HWL & spots
@ MHTZ → HHTZ
supra. END of
SEGMENT
NA-21
bldr-peb. beach.
12m x 12m tar
coat area @ HHTZ -
splash.
peb. pocket
NA-20
< 3m long -
rare faint tr
1cm wide to
line @ HWL
mod ∠, b
cob. beach -
no oil
NA-5
0
100
50
NA-21
N
1" = 1000 ft
1 : 12,000
NAKED

25JUL89

SEG NA-21 INSPECTION # 1 **SEGMENT**

DATE 9/6/89 **INSPECTION RECORD**

Shoreline Treatment Process(es) Completed for this Segment

- [x] Hot water wash
- [ ] Warm water wash
- [x] Water deluge
- [x] Mechanical Hand Wiping
- [ ] Non-mechanical
- [ ] Other

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments TREATMENT OF SEGMENT NA-21 IS COMPLETE AND READY FOR DEMOBILIZATION AND DEPLOYMENT TO NEW SEGMEN

Signature BE Williams Date: 9/6/89 Time: 1500

Printed Name BRUCE E. WILLIAMS

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil

Percent	Degree of Oiling
<1%	Heavy
3	Medium
5	Light
1	Very Light
90	None
100 %	

Subsurface Oil

- [x] Yes (isolated)
- [ ] No

COMMENT BELOW

Reassessment

- [ ] Yes - necessary
- [x] No - not necessary unless re-oiled

Existing Shoreline Condition As Visually Determined by ADEC

Surface Oil

Percent	Degree of Oiling
<1%	Heavy
5%	Medium
15%	Light
50%	Very Light
30%	None
100 %	

Subsurface Oil

- [x] Yes
- [ ] No

COMMENT BELOW

Reassessment

- [✓] Yes - necessary
- [ ] No - not necessary unless re-oiled

ADEC rep

Comments Beach is cleaning itself through wave action. SCAT Report recommends minimal treatment of these beaches. Should be reassessed to determine degree of

Signature Daniel A. Zobrist Date: 9/6/89 Time: 14:37

Printed Name DANIEL A. ZOBRIST

FOSC rep **Demobilization approved/disapproved**

Comments No signs of pooled oil.

Signature James R Porter, MSTC, USCG Date: 9/6/89 Time: 1430

Printed Name JAMES R. PORTER

COPY: EXXON ADEC FOSC ISCC

ISCC 8/28/89
West coast of Naked Island being used by FWS for damage assessment studies on 3 seabird colonies (Blocks NA 22 NA 23

(version 8/04/89)

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Location (see enclosed map): NAKED ISLAND WEST BLOCK

Includes Shoreline Segments: NA-22, NA-23, NA-24, NA-25, NA-26

Submitted : Scott A. Maumen (for Exxon) Date: 8/22/89

ISCC Recommendation: Sharon K. Christopherson Date: 8/28/89

FOSC Approval: David Jurasek Date: 8/28/89

The cleanup procedures identified in the Shoreline Cleanup Program are recommended. Modifications to these systems can be made in the field. Exxon and other field personnel are encouraged to suggest innovations and productivity enhancements to the OSC's on-scene representative. The OSC's representative has the authority to approve on-site modifications. The Field Resource Team should be consulted if these actions do not fit within the Ecological Constraints of the Shoreline Cleanup Program. Requirements for safety and the protection of cultural material must be observed.

Distribution:

Exxon Shoreline Coordinator
Exxon Shoreline Supervisor
Exxon SCAT file

SHPO
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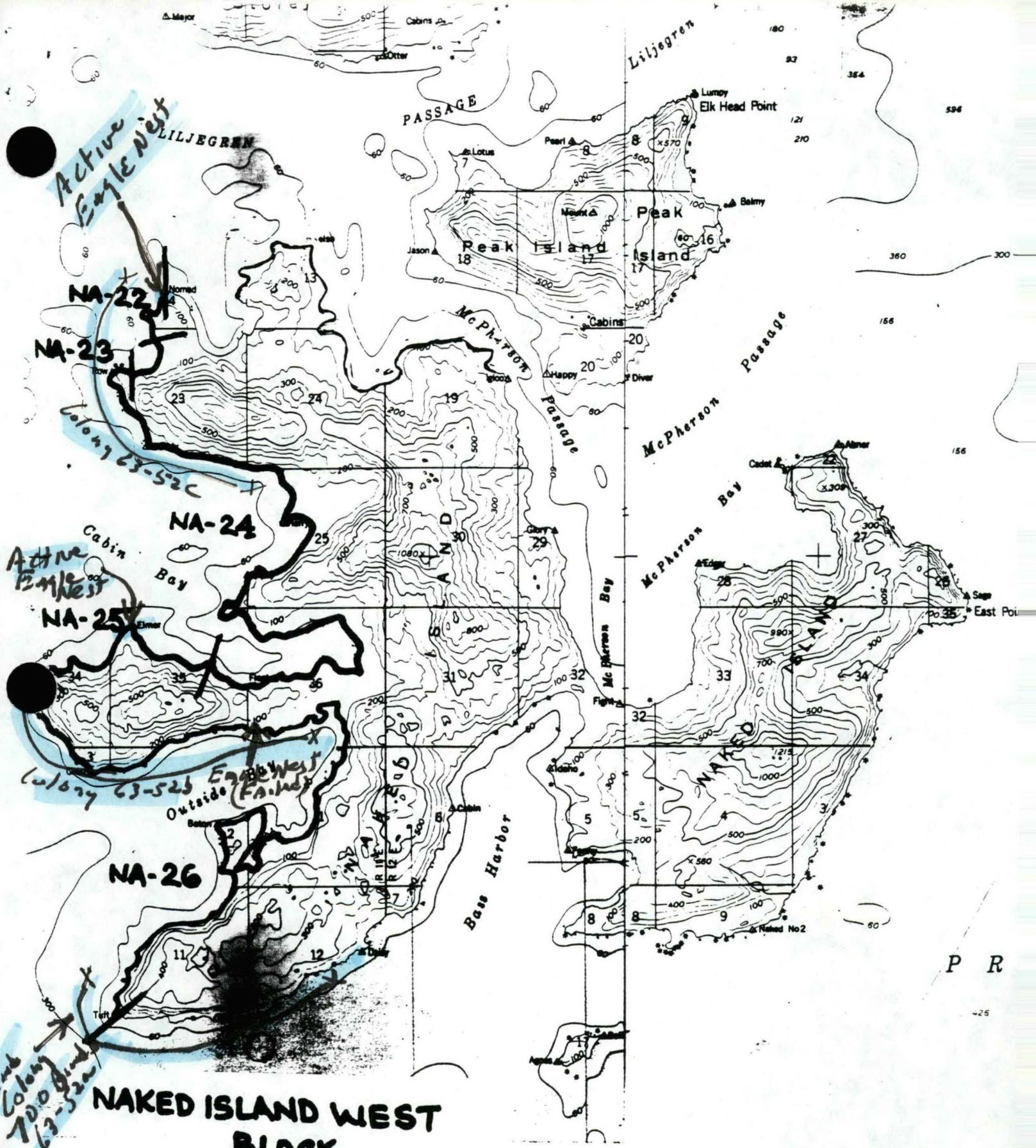
USDA (FS)
USFW
A.DEC
A.FG
A.DNR
CAC
PWSCA
USFS



NAKED ISLAND WEST BLOCK

NA-22, NA-23, NA-24, NA-25, NA-26

(version 6/14/89)

SHORELINE CLEANUP PROGRAM

DATE 8/22/89 SHORELINE SEGMENT NA-22

LOCATION: (see enclosed map) NAKED ISLAND-WEST SIDE

(NAKED ISLAND WEST BLOCK)

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 8/14/89

Recommended Cleanup Activity(ies):
- Manually remove contaminated drift material (fucus), pooled oil and patches of mousse.
- Use bioremediation if possible.
- No other cleanup recommended at this time.

Priorities Considerations:
Class 3: Moderate oil
B: Resources absent

Ecological Constraints (from site survey): Work at mid tide + or take appropriate measures to protect lower intertidal zone. Note presence of seabird colony. Nesting may occur close to water's edge. See advisory in manual.

SC[illegible]/89
DJT
8·28·89

Archeological Constraints (from site survey):
No upland access. If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon's Archeological Field Director and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

Royce Burnell — Date: 8/23/89
State Historic Preservation Officer *

ISCC: Sharon K. Christopherson — Date: 8/28/89

EXXON: Daniel D. Tufts — Date: 8·28·89

FOSC: David Zaunofin — Date: 8-28-89

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

SHORELINE OIL EVALUATION

Date: 8/14/89 Time: 18:10 Observer: G. MACDONALD

Surveyed From: Foot/Boat/Helio/Plane Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION N.W. Naked Island SEGMENT NUMBER NA-22

LENGTH OF SHORELINE SEGMENT: 1,000 m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane
small/LCM.

SHORELINE:

Shoreline Type: SPI/BEA/COV/HLD/STRT Slope: LANG/HANG/VER (MOD-)

Wave Exposure: High/Med/Low

Sediment: B 30 % / C 15 % / P 5 % / G TRACE % / S ___ % / M ___ % / R 50 %

Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type log, seaweed.

OIL

Degree of Oiling: Heavy/Moderate/Light/No Oil/Unobserved

Area of Beach Impact: SU / SP / H / M / L

Continuous: Y/N % of Segment _____ Width of Band: _____ m

Sporadic: Y/N % of Segment ≤10

Est. Oil Thickness where > 1cm: _____ cm Est. Oil Penetration: ≤10 cm

Pooled Oil: TRACE % "Free" Oil: 20 % Coated: H ___ % / M ___ % / L 80 %

Fresh _____ % Mousse 15+ % Tar Formation: 85 %

Drift Debris Oiled ? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L/

Comments:

Steep - mod. angle rocky shore w/ persistent soft tar drips and splats - upper HTZ → Supra;
Moderately oiled bedrock - blocks - cobs - pebbles w/ free mousse trapped upslope of boulders and below clasts;
Both locations ① & ② are shallow coverings of cobs etc. over smoothed / worn bedrock.

Map/Aerial photo marking segment boundaries Attached

VTR: Y/N Tape Number(s) _____

Photography: Y/N Roll Number(s) T1G1 ; #'s 7-11

Sample Numbers Collected: None

8/14 SEGMENT NA-22

18.10 HRS

rocky coast w/ bldr-cob. beaches;
mod - hi. exposed;
trace - mod. old mousse @ HTZ-SF.
photos - roll T1 G1 #7, 8.
#7 free mousse trapped @ back of bldr.
#8 beach face; darker interstices
loc^n ① are old soft mousse.

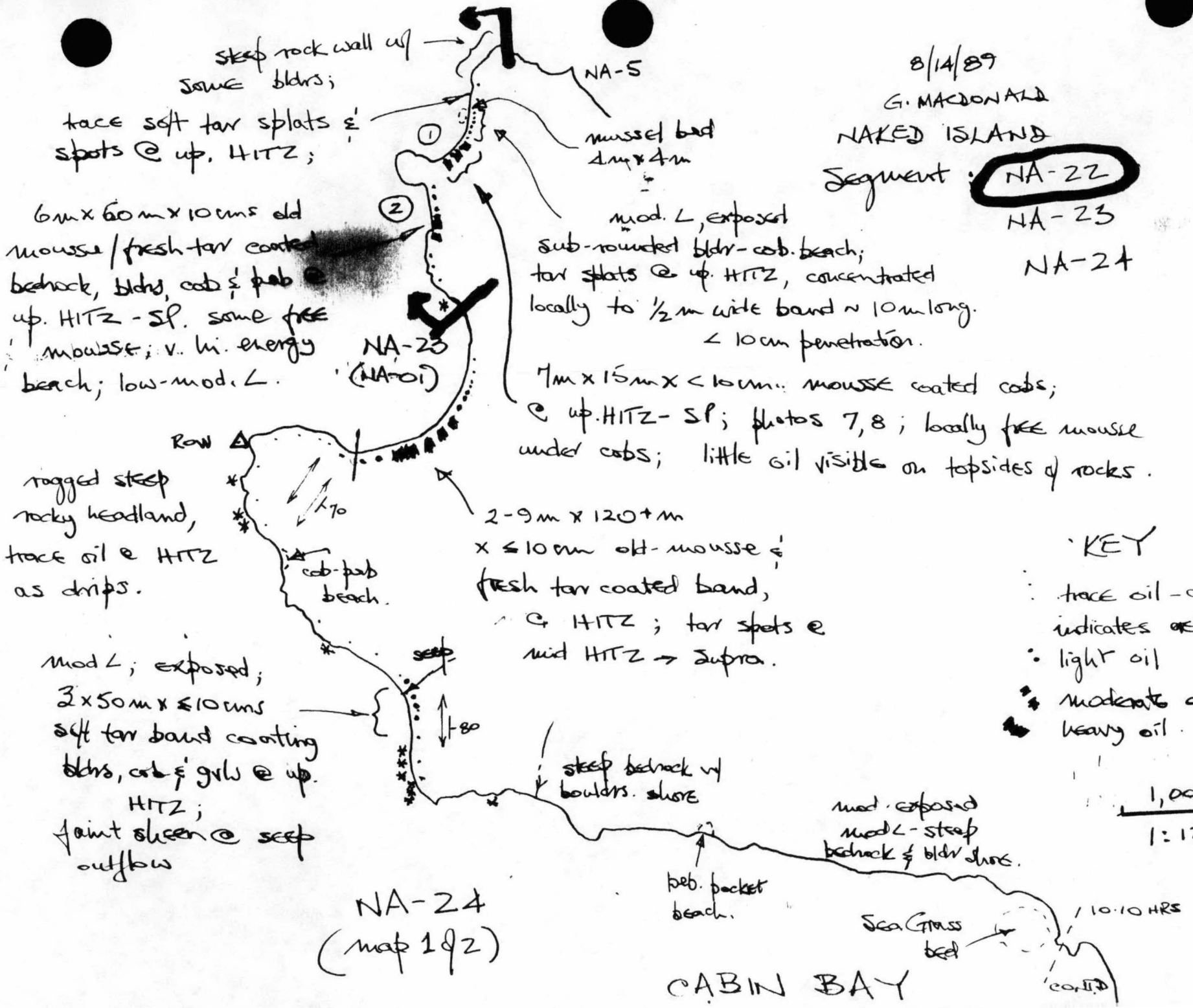
· steep rocky point
② mod. oiled cob-bldr beach;
free mousse & soft tar coat
photo # 9 · general view. } south
11, 10 - " "
very hi. E beach compared to ①.
no evidence of self-cleaning here!

Steep rocky coast w/ boulders -
trace - v. light oil as thin (< 0.2 m)
tar line: @ up. HTZ.

20.25 HRS END of SEGMENT

8/14/89
G. MACDONALD
NAKED ISLAND
Segment: NA-22
NA-23
NA-24

N



ECOLOGICAL EVALUATION

LOCATION: Prince William Sound **SITE:** N.E. Naked Island **OBSERVER:** S. Dearn

LOCATION PREFIX: _____ **SEG. NO.:** NA-22 **LENGTH:** 1,000 (M)

DATE: 08 / 14 / 89 **TIME (HHMM):** 1810 — 2020 **TIDE HT.:** 4.0 ft — 6.0 ft

OILED ZONE: Splash High Medium Low

SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud

LIVE BIOTA

Fucus (algae): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
Dense and continuous on rocky headlands + large boulders/bedrock. Young plants (< 1cm) present on rocky heads + large boulders. Absent or in very low # on cobble/boulder beach areas. Some Fucus plants oiled (light-mod.) in oil areas.

Mytilus (Mussels): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
Relatively few patches of mussels - usually small (~0.5m x 0.5m) w/ exception of one larger area atop large boulders. SEE MAP. Nucella (Frilled Dogwinkle) predation apparently causing some mussel mortality.

Balanus (Barnacles): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
Dense + continuous on rocky outcroppings. Also dense on tops of boulders + cobbles in beach areas. Spar scattered in high, high intertidal area also. Dead individuals present in moderately oiled areas.

Littorina
Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
Near location 1 (SEE MAP) - Littorinas are absent or in low # in vegetated areas. Present instead on boulders + cobbles in area without Fucus. Littorinas are present in vegetated areas near loc 2 especially on headlands.

Limpets: Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
Similar situation as w/ Littorines. ↑ # present on bare rocks/boulders/cobbles on beach. Some limpets (especially larger individuals > 1cm) under Fucus blades on headlands.

OTHER OBSERVATIONS: In areas w/ higher amounts of oil — lightly oiled Fucus plants appeared stressed (i.e. change in color, loss of fleshy parts, signs of desiccation, ~~however moderately oiled plants are dead~~. Similar conditions also hold for barnacles in these areas (lightly oiled barnacles are unhealthy ~~moderately oiled individuals are dead~~).
Laminarian Kelps in low intertidal/shallow subtidal.

CLEANUP PRECAUTIONS: Avoid recontamination of nearby healthy flora/fauna - especially on rocky outcroppings, large boulders + headlands. Minimize trampling of intertidal zone. Limit traffic on beach to location 1 + 2 only. Stay on cobble/boulder beach. Clean only at tides greater than 6.0 ft.

MAMMALS: Otters 4 nearshore Harbor Seals ____ Sea Lions ____ Whales ____
Other _____

BIRDS: Pigeon guillemots - 4 (nearshore), Sparrow - 1 (intertidally on rocks)

GENERAL OBSERVATIONS: Species diversity + organism abundance is relatively reduced in this segment. Plants + animals within the moderately oiled areas (SEE MAP) appear ~~affected~~ by the oil. Organisms outside of oiled areas, although not present in high numbers, are healthy. Geology of beaches within this segment suggest high wave energy at times (round cobbles/boulders moderate slope). This would account for the reduction in diversity + abundance of organisms observed (relative to moderately sheltered areas of the Sound)

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 8-14-89 Location NAKED Is. Site

Location Prefix NA Segment # NA-22 Length 1000 m

Survey Method:

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

Ground ✓ (G - indicate on map)

Known cultural resources (AHRS #) None Data Source AHRS Files

Oil conditions/beach visibility Moderate to trace, good visibility

Width of beach zone surveyed 10 m Tree fringe surveyed 15 m

Cultural resources observed in beach zone (AHRS code) none

Cultural resources observed in tree fringe (AHRS code) CMT's (10+), (5+) SAWN st

General observations justifying survey method and segment's site probability

Shore Profile Steep rock walls to 10 m, pocket beach, beaches, ma

Fresh Water Sources Back beach pond, seeps.

Sea Exposure N, W, S, moderately high energy.

Access/Safety Access good, Safety good.

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

Monitoring during cleanup needed yes/(no) Collection yes/(no)

Photos: Color Roll # Frames

B/W Roll # P6P#13, P6P#14 Frames 18-25; 2-8 (resp.)

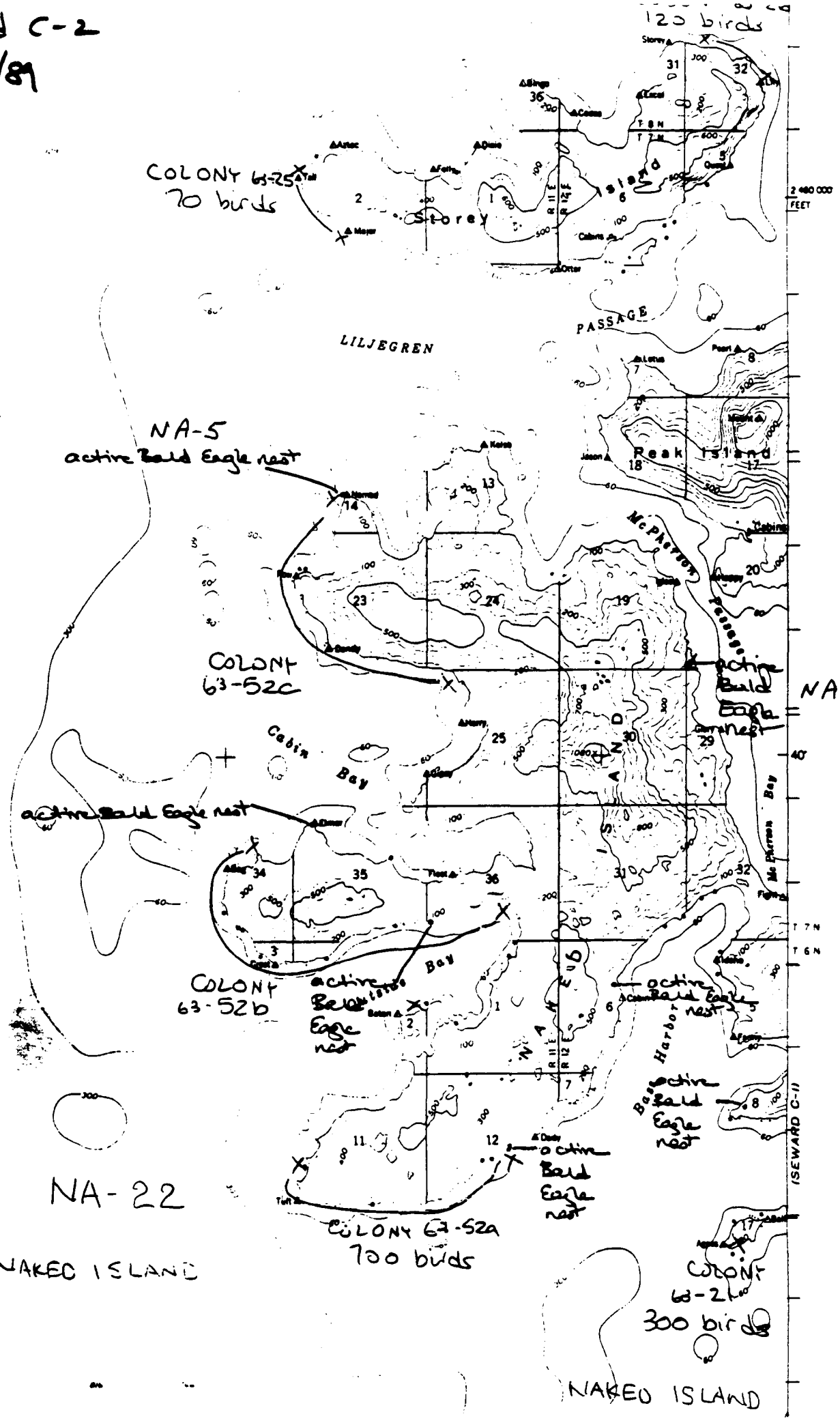
Observer(s) P. G. Phippen

Time survey started 1800 Time survey ended 2030

Cultural resource considerations/restraints:

No access to uplands, Standard Constraints.

Seward C-2
5/28/89



Scale 1:80,000 (1" = 1.26 miles)

REFERENCE MAP.

All segments except for NA-5, 6 & AB-51 were scoped, as per TEAM 1 (Briska) task list @ 8/10/89.

G. MACDONALD. AUG '89.

(version 6/14/89)

SHORELINE CLEANUP PROGRAM

DATE 8/22/89 SHORELINE SEGMENT NA-23

LOCATION: (see enclosed map) NAKED ISLAND-WEST SIDE

(NAKED ISLAND WEST BLOCK)

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 8/15/89

Recommended Cleanup Activity(ies):
-Manually remove gravel pavement if possible.
-Use bioremediation if possible.
-No other cleanup recommended at this time due to high wave exposure and degree of weathering of the oil.

Priorities Considerations:
Class 2-3: Heavy to moderate oil
A: Resources present

Ecological Constraints (from site survey): Work at mid tide + or take appropriate measures to protect lower intertidal zone. Avoid disturbance to shallow subtidal communities (clam bed, seagrass bed and subsurface kelp bed). Note presence of seabird colony. Nesting may occur close to waters edge. See advisory in manual.

Archeological Constraints (from site survey):
No upland access. If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon's Archeological Field Director and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

8/28/89

State Historic Preservation Officer *	Date: 8/23/89
ISCC: Sheron K. Christopherson	Date: 8/28/89
EXXON:	Date: 8·28·89
FOSC:	Date: 8-28-89

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

SHORELINE OIL EVALUATION

Date: 8/15/89 / Time: 08-25 Observer: G. MACDONALD

Surveyed From: Foot/Boat/Helio/Plane Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION NW. Naked Island. SEGMENT NUMBER NA-23

LENGTH OF SHORELINE SEGMENT: ~ 600 m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane
small/shallow draft.

SHORELINE:

Shoreline Type: SPI/BEA/COV/HLD/STRT Slope: LANG/HANG/VER
-MOD

Wave Exposure: High/Med/Low

Sediment: B 25 % / C 40 % / P 10 % / G 10 % / S ___ % / M ___ % / R 15 %

Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type _____

OIL

Degree of Oiling: Heavy/Moderate/Light/No Oil/Unobserved

Area of Beach Impact: SU / SP / H / M / L

Continuous: Y/N % of Segment 45 Width of Band: 2-9 m

Sporadic: Y/N % of Segment <10

Est. Oil Thickness where > 1cm: ____ cm Est. Oil Penetration: ≤10 cm

Pooled Oil: ____ % "Free" Oil: TRACE % Coated: H ___ % / M ___ % / L 100 %

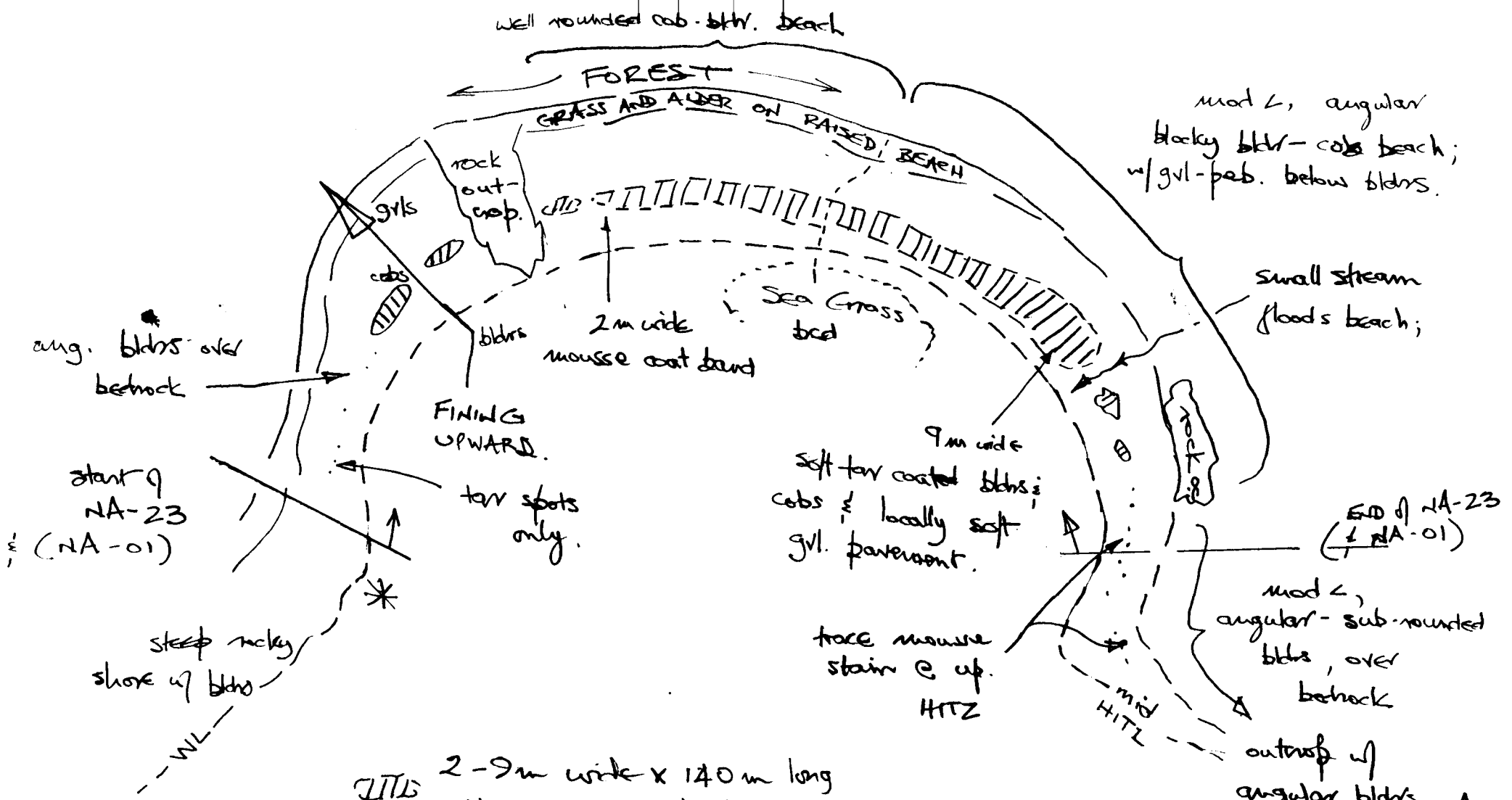
Fresh ____ % Mousse ≤15 % FRESH Tar Formation: 85 %

Drift Debris Oiled ? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L/

Comments:

Beach shows signs of heavy foot traffic @ Supra zone & may have been ~~cleaned~~ ~~treated~~ already;
high energy from waves very evident on NE half of beach - headland at Δ Rock is source of cobbles & boulders which become v. rounded to N & S of Δ Rock headland
Note: ~~This segment replaces NA-01~~.

Page 2: ~~Map attached~~ Sketch attached. ; no other data - photo, video, or sample.



8/15/89

G. MACDONALD

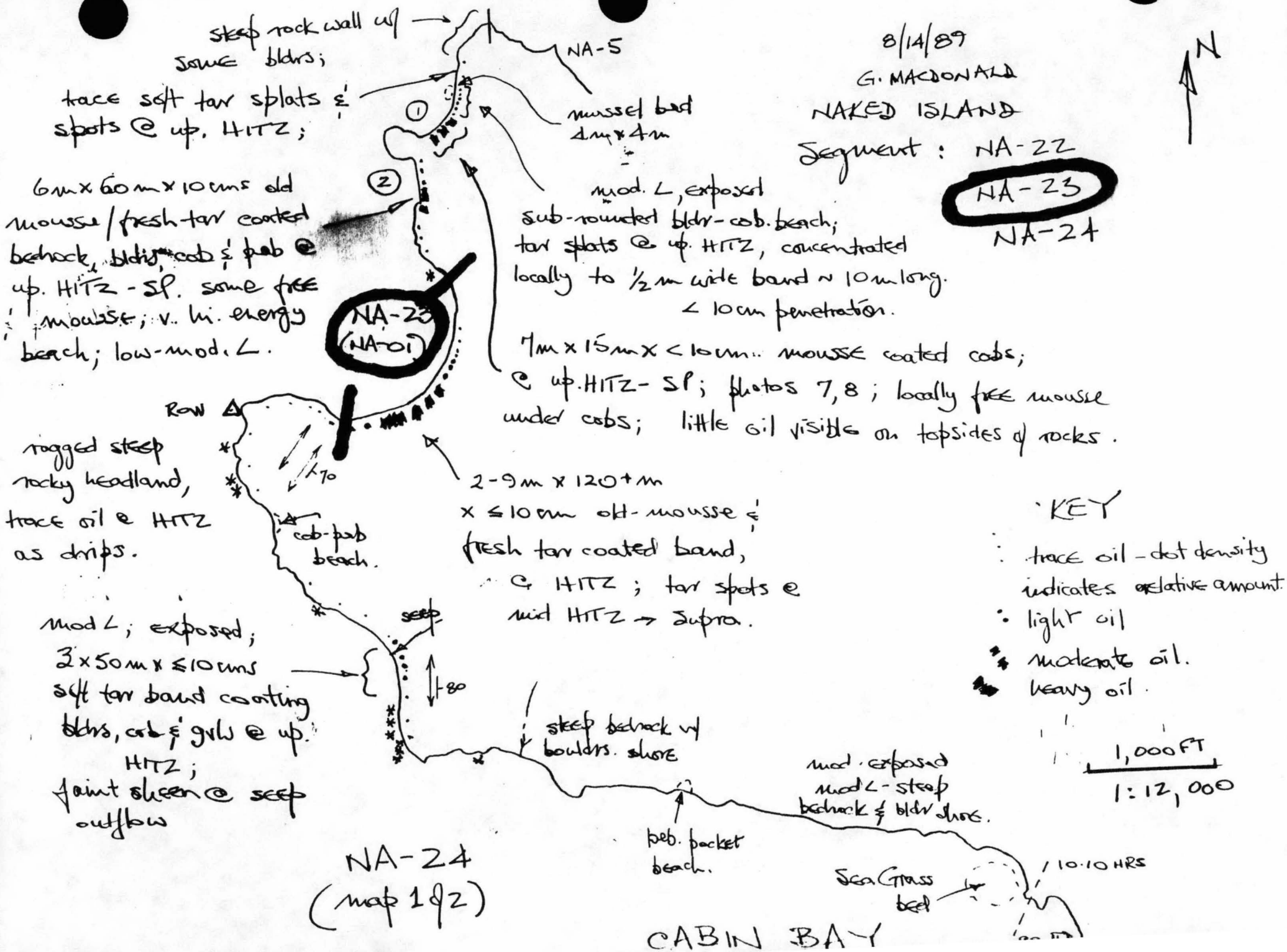
SEGMENT :- NA-23

8/15/89 Segment NA-23
08·25 HRS Replaces NA-1

mod. exposed, low-mod ∠ cob-bldr beach
bounded by bedrock outcrops;

mature mousse & tar as small (<·3
cm dia) splats & drips @ mid HITZ →
Supra zone; 2-9 m band of
mousse coated cobs @ up. HITZ;
penetration ≤ 5 cm; ~140 m long;
beach may have been treated —
heavy foot traffic w/ fire ring @ supra,
Littorina graveyard!
sketch map of details.
oil contamin. thins out to S;

09·25 End of SEGMENT
at old NA-01 boundary.


8/14/89
G. MACDONALD
NAKED ISLAND
Segment : NA-22
NA-23
NA-24
N
NA-5
steep rock wall w/ some bldrs;
trace soft tar splats & spots @ up. HITZ;
mussel bed 4m x 4m
mod. L, exposed sub-rounded bldr-cob. beach; tar splats @ up. HITZ, concentrated locally to ½ m wide band ~ 10m long. < 10cm penetration.
6m x 60m x 10cms old mousse / fresh tar coated bedrock, bldrs, cob & peb @ up. HITZ - SP. some free mousse; v. hi. energy beach; low-mod. L.
NA-23 (NA-01)
7m x 15m x < 10cm mousse coated cobs; @ up. HITZ - SP; photos 7, 8; locally free mousse under cobs; little oil visible on topsides of rocks.
ROW
ragged steep rocky headland, trace oil @ HITZ as drips.
70
cob-peb beach.
2-9m x 120+m x ≤ 10cm old-mousse & fresh tar coated band, @ HITZ; tar spots @ mid HITZ → supra.
KEY
trace oil - dot density indicates relative amount.
light oil
moderate oil.
heavy oil.
seep
mod L; exposed; 3 x 50m x ≤10cms soft tar band coating bldrs, cob & gvl @ up. HITZ; faint sheen @ seep outflow
80
steep bedrock w/ boulders. shore
mod. exposed mod L - steep bedrock & bldr shore.
1,000 FT
1:12,000
peb. pocket beach.
Sea Grass bed
10:10 HRS
NA-24 (map 1 of 2)
CABIN BAY

ECOLOGICAL EVALUATION

LOCATION: Prince William Sound SITE: W. Naked Island OBSERVER: S. DEARN

LOCATION PREFIX: _____ SEG. NO.: NA-23 LENGTH: 600 (M)

DATE: 08 / 15 / 89 TIME (HHMM): 0820-0920 TIDE HT.: 0.0 – +3.0 ft.

OILED ZONE: Splash High Medium Low

SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud

LIVE BIOTA

Fucus (algae): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
Dense + continuous on rocky headlands + large boulders. Scattered patches present across beach area. Young plants (<1cm) present in middle high itz. Several other algal species forming mats mid-high.

Mytilus (Mussels): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
Small patches/clusters present (~10 x 10cm). Found along bases of boulders + along ridges on sides + tops of boulders. Many dead individuals present (due to Nucella predation)

Balanus (Barnacles): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
A dense, continuous band is present primarily on cobbles / boulders of beach area.

Littorina
Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
Scattered in low #'s across the beach. Higher #'s observed in association w/ drift seagrass (Zostera) in wrack line.

Limpets: Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
Primarily on tops of bare boulders / cobbles (Notoacmaea persona) + under Fucus blades (Collisella digitalis)

OTHER OBSERVATIONS: Laminarian kelps in shallow subtidal. Many hermit crabs in Littorina shells. Some Fucus plants have appearance similar to plants in areas of moderate-light oiling although no oil was observed on or near these particular plants.
Seagrass beds (Zostera) present offshore, with adjacent sandy bottom. Clam siphon holes observed along w/ empty clam shells. 20-arm seastars (Pychopodia) present also in this area.

CLEANUP PRECAUTIONS: Avoid recontamination of diverse subtidal communities. Minimize disturbance to [illegible] fauna + flora on nearby intertidal rocky outcroppings. Stay on cobble/boulder beach only. Clean only at (+) 4.0ft tides or higher.

MAMMALS: Otters 1 offshore Harbor Seals ____ Sea Lions ____ Whales ____
Other _____

BIRDS: 2 - Marbled Murrelets.

GENERAL OBSERVATIONS: Increased # of organisms occur intertidally at rocky headlands. Cobble/boulder beach is relatively devoid of macrophytes + invertebrates. This is typical of higher energy coastlines (rounded cobbles/boulders also suggest this). The subtidal environment supports a wide range of organisms due to the presence of many different substrata (fine sand, cobbles/boulders + bedrock)

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 8-15-89 Location NAKED Is. Site

Location Prefix NA Segment # NA-23 Length ~600m

Survey Method:

Air (A - indicate on map) Boat ✓ (A - indicate on ma

Ground ✓ (G - indicate on map)

Known cultural resources (AHRS #) SEW-434 Data Source AHRS File

Oil conditions/beach visibility Moderate to heavy in patches, good

Width of beach zone surveyed 20 m Tree fringe surveyed 15m

Cultural resources observed in beach zone (AHRS code) none

Cultural resources observed in tree fringe (AHRS code) CMT's (5+)

General observations justifying survey method and segment's site probabilit

Shore Profile moderate to low angle bouldar/cobble beach

Fresh Water Sources bank beach percolage and seeps.

Sea Exposure exposed to west, low to moderate energy

Access/Safety good - good

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

Monitoring during cleanup needed yes/no Collection yes/no

Photos: Color Roll # — Frames —

B/W Roll # — Frames —

Observer(s) P.G. Phipps

Time survey started 0820 Time survey ended 0920

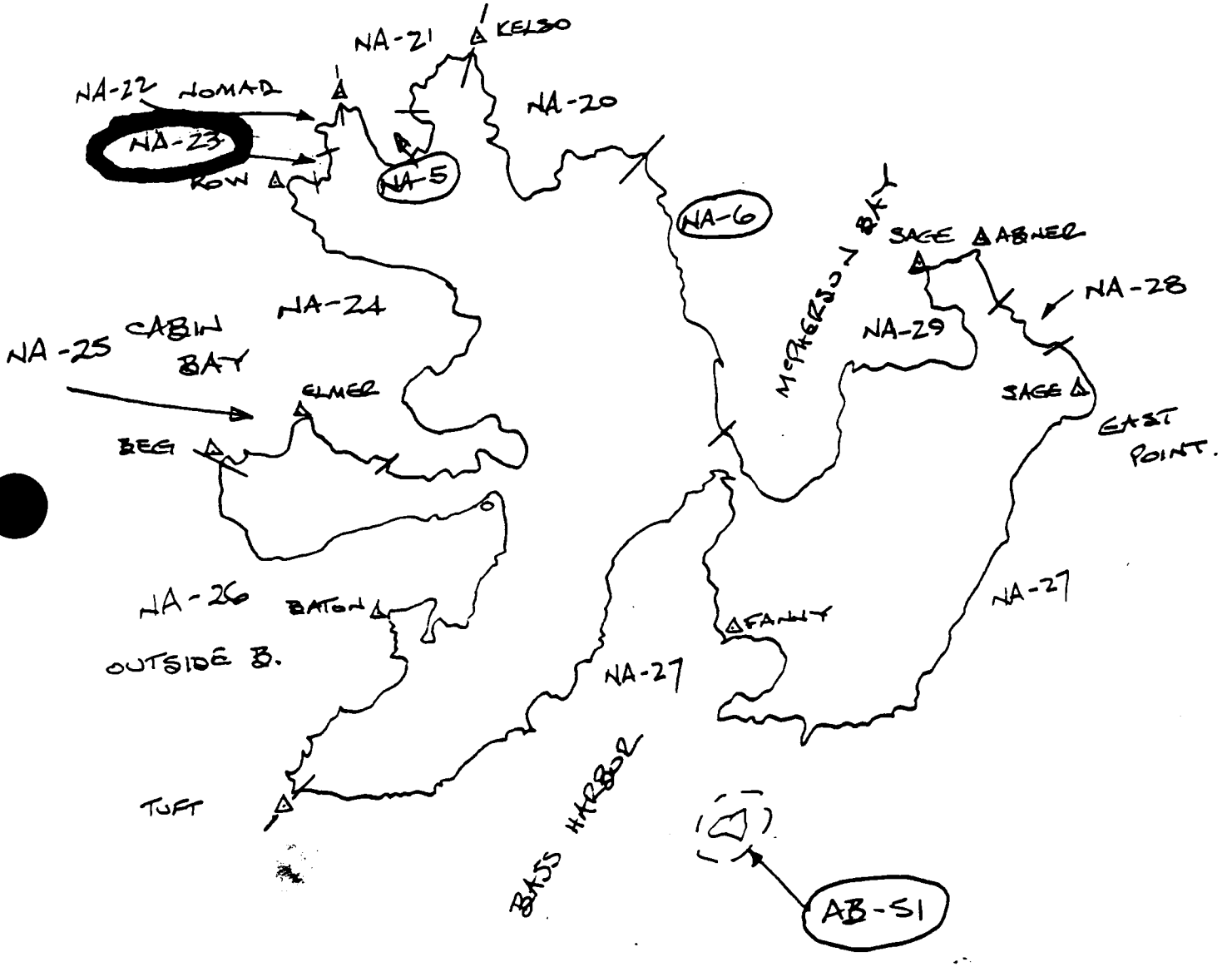
Cultural resource considerations/restraints:

Standard constraints.

Scale 1:80,000 (1" = 1.26 miles)

REFERENCE MAP.

All segments except for NA-5, 6 & AB-51 were scoped, as per TEAM 1 (Briska) task list @ 8/10/89.



G. MACDONALD. AUG '89.

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 8/22/89 SHORELINE SEGMENT NA-24

LOCATION: (see enclosed map) NAKED ISLAND-CABIN BAY, WEST SIDE

(NAKED ISLAND WEST BLOCK)

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 8/15/89

Recommended Cleanup Activity(ies):
No cleanup recommended at this time (subject to FOSC reassessment at a later date), due to discontinuous, light oil and medium to high wave exposure.

Priorities Considerations:
Class 4: Light oil
A: Resource present
Medium recreational use

Ecological Constraints (from site survey):
A cataloged anadromous stream (#12960) is located within this segment. If cleanup is planned, contact ADF&G and RAT forty eight hours prior to beginning activities.

Archeological Constraints (from site survey):
If cleanup is conducted and heretofore undiscovered cultural materials are uncovered, contact Exxon's Archeological Field Director and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

State Historic Preservation Officer * Date: 8/23/89

ISCC: Sharon K. Christopher Date: 8/28/89

EXXON: Daniel R. Taft Date: 8.28.89

FOSC: David Zaunsfi Date: 8-28-89

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

SHORELINE OIL EVALUATION

Date: 8/15/89 Time: 09.30 Observer: G. MACDONALD

Surveyed From: (Foot) (Boat) Helio/Plane Weather: (Sun) (Cloud) Rain/Snow/Fog

LOCATION

LOCATION NW. Naked Island. SEGMENT NUMBER NA-24

LENGTH OF SHORELINE SEGMENT: 7,100 m

ACCESS: Foot/Vehicle (Boat) (Barge) (Helio) Float Plane — fuel cache present. shallow draft only.

SHORELINE:

Shoreline Type: SPI (BEA) (COV) (HLD) (STRT) Slope: LANG (MOD-HANG) (VER)

Wave Exposure: (High) (Med/Low) — Cabin Bay cove

Sediment: B 20 % / C 20 % / P 10 % / G 10 % / S TRACE % / M TRACE % / R 40 %

Drift Debris on Beach: Yes (No) Supra/Upper/Mid/Lower Type

OIL

Degree of Oiling: Heavy/Moderate (Light) (No Oil) Unobserved

Area of Beach Impact: SU / (SP) / (H) / M / L

Continuous: Y (N) % of Segment < 2 Width of Band: ≤ 3 m

Sporadic: (Y) N % of Segment ≤ 10 — about 100 m of light oil.

Est. Oil Thickness where > 1cm: ____ cm Est. Oil Penetration: ≤ 10 cm

Pooled Oil: ____ % "Free" Oil: ____ % Coated: H ____ % / M ____ % / L 100 %

Fresh ____ % MATURE Mousse ≤ 10 % FRESH Tar Formation: 90 %

Drift Debris Oiled ? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L/

Comments:

Rocky [redacted]; light oil on tar coat @ upper HTTZ – ~ 100 m x ≤ 3 m x ≤ 10 cm – hi. energy location, will self-clean easily. no oil in more sensitive or more sheltered areas here.

Fuel cache present – fuel bladder, pump, outboard lube & sorbent boom

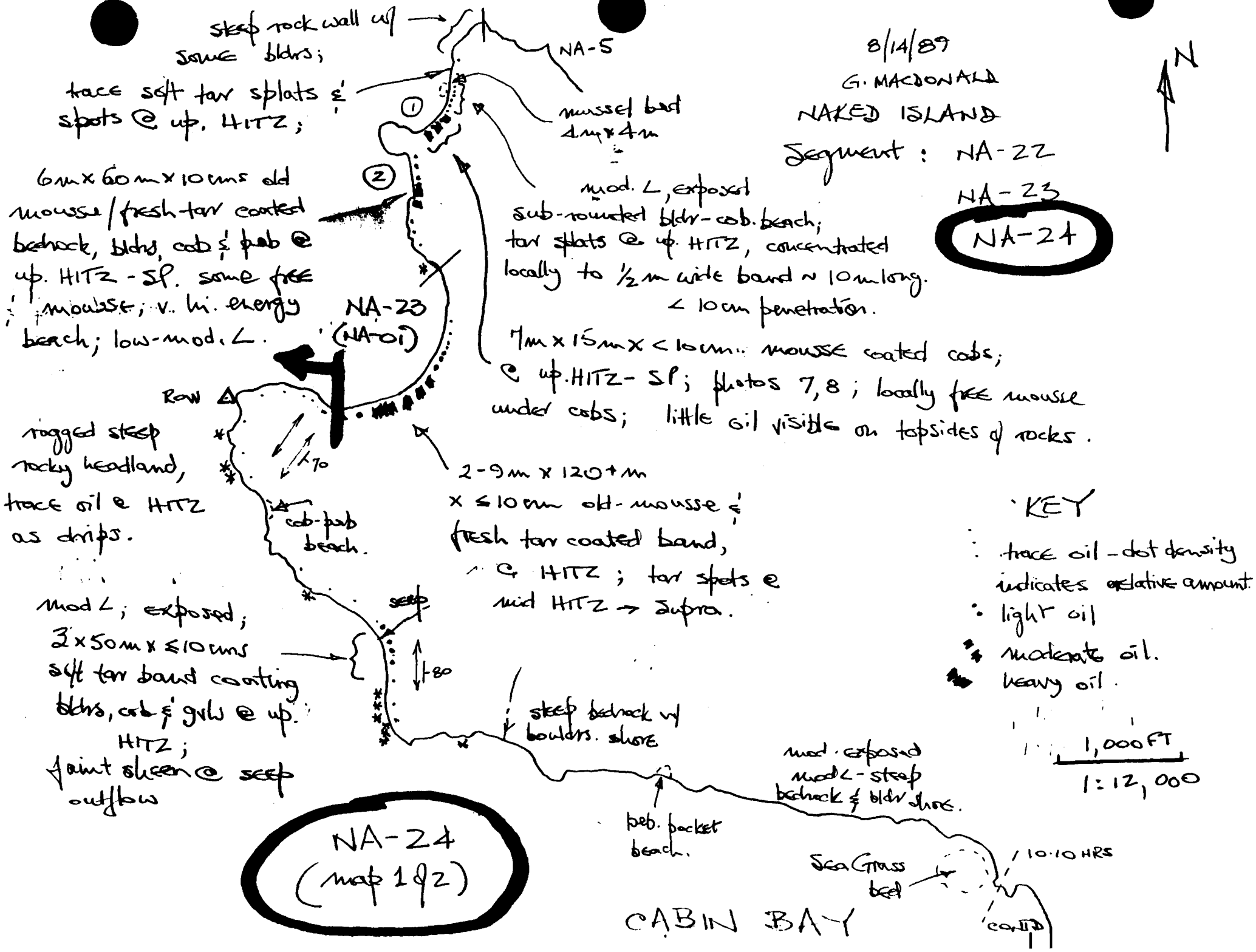
Page 2. Map attached; no photo; video; sample.

8/15/89 Segment NA-24
09:30 HRS

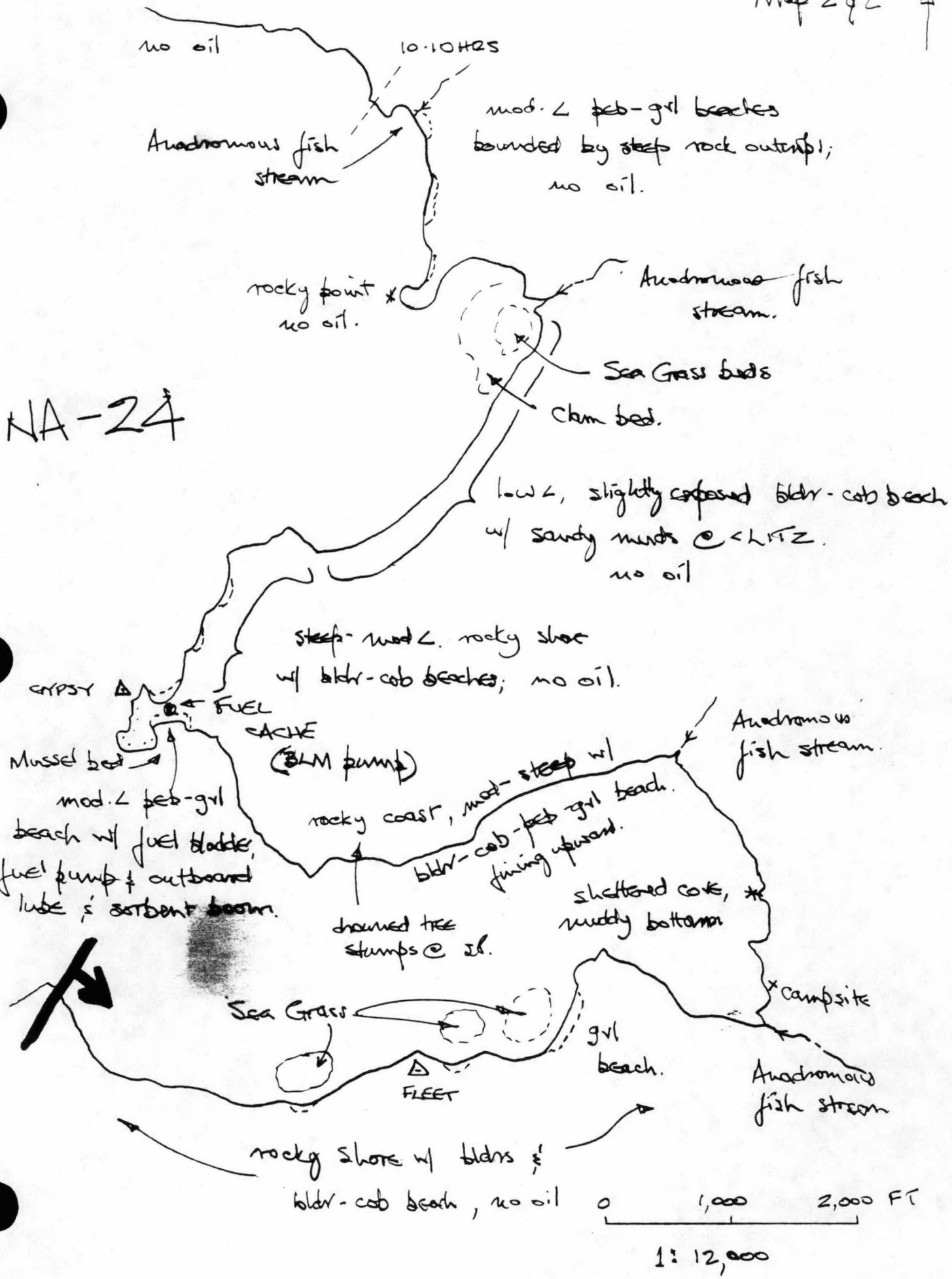
mod. exposed rocky bldr - bedrock shore,
trace - v. light oil on tar coat and
drift @ HTTZ - SP; — not easily
visible from air, often behind & on
sides of bldrs;
≤ 3 m x 50 m & ≤ 10 mm sqft tar coat
on cobs, grvl & lower sides of bldrs;

persistent trace tar both & drift @
HTTZ to NW headland of Cabin Bay;
Cabin Bay 10:00
steep bedrock & bldrs shore; steeply
bedded, easily eroded sediments; no oil.

10:55 END of SEGMENT


8/14/89
G. MACDONALD
NAKED ISLAND
Segment : NA-22
NA-23
NA-24
N
NA-5
steep rock wall w/ some bldrs;
trace soft tar splats & spots @ up. HITZ;
mussel bed 4m x 4m
mod. ∠, exposed sub-rounded bldr-cob. beach; tar splats @ up. HITZ, concentrated locally to ½m wide band ~ 10m long. < 10cm penetration.
6m x 60m x 10cms old mousse / fresh tar coated bedrock, bldrs, cob & peb @ up. HITZ - SP. some free mousse; v. hi. energy beach; low-mod. ∠.
NA-23 (NA-01)
7m x 15m x < 10cm mousse coated cobs; @ up. HITZ - SP; photos 7, 8; locally free mousse under cobs; little oil visible on topsides of rocks.
Row
ragged steep rocky headland, trace oil @ HITZ as drips.
cob-peb beach.
2-9m x 120+m x ≤10cm old-mousse & fresh tar coated band, @ HITZ; tar spots @ mid HITZ → supra.
KEY
trace oil - dot density indicates relative amount
light oil
moderate oil.
heavy oil.
mod ∠; exposed; 3 x 50m x ≤10cms soft tar band coating bldrs, cob & grvl @ up. HITZ; faint sheen @ seep outflow
seep
steep bedrock w/ boulders. shore
1,000 FT
1:12,000
mod. exposed mod ∠ - steep bedrock & bldr shore.
peb. pocket beach.
Sea Grass bed
10:10 HRS
NA-24 (map 1 of 2)
CABIN BAY

Map 2 of 2


N
no oil
10·10 HRS
mod. ∠ peb-grl beaches bounded by steep rock outcrop; no oil.
Anadromous fish stream
rocky point
no oil.
Anadromous fish stream.
Sea Grass beds
Clam bed.
NA-24
low ∠, slightly exposed bldr-cob beach w/ sandy muds @ <LITZ.
no oil
steep-mod ∠. rocky shore w/ bldr-cob beaches; no oil.
GYPSY
FUEL CACHE (BLM pump)
Mussel bed
mod. ∠ peb-grl beach w/ fuel bladder, fuel pump & outboard lube & sorbent boom.
Anadromous fish stream.
rocky coast, mod-steep w/ bldr-cob-peb grl beach. fining upward.
drowned tree stumps @ sl.
sheltered cove, muddy bottom
campsite
Sea Grass
grl beach.
FLEET
Anadromous fish stream
rocky shore w/ bldrs & bldr-cob beach, no oil
0 1,000 2,000 FT
1: 12,000

ECOLOGICAL EVALUATION

LOCATION: Prince William Sound SITE: W. Naked Island OBSERVER: S. Dearn

LOCATION PREFIX: _____ SEG. NO.: NA-24 LENGTH: 7100 (M)

DATE: 08 / 15 / 89 TIME (HHMM): 0930-1055 TIDE HT.: 3.0 — 7.0 ft.

OILED ZONE: (Splash) (High) Medium Low

SUBSTRATUM: (Rocks) (Boulder) (Cobble) (Gravel) Sand Mud

LIVE BIOTA

Fucus (algae): Patchy (Y)/N Contin. (Y)/N Dense (Y)/N Sparse Y/N None Y/N
Dense + continuous especially on rocky headlands

Mytilus (Mussels): Patchy (Y)/N Contin. Y/N Dense (Y)/N Sparse Y/N None Y/N
Generally present in small (10 x 10 cm) infrequent patches on rocks + boulders. One larger mussel bed in softer sediment located (see map). ~~Large sized patches of mussels in one bedrock area~~

Balanus (Barnacles): Patchy Y/N Contin. (Y)/N Dense (Y)/N Sparse Y/N None Y/N
Dense + continuous on both rocky headlands + cobble/boulder beach. Some individuals oiled — those w/ light coating appeared stressed but alive. Those w/ moderate coating are dead.

Littorina
Patchy Y/N Contin. (Y)/N Dense Y/N Sparse (Y)/N None Y/N
Scattered across beach — primarily on bare rocks. Also in amongst the blades of Fucus plants. Many Nucella lamellosa (Frilled Dogwinkle) present — observed feeding on mussels + barnacles

Limpets: Patchy Y/N Contin. (Y)/N Dense Y/N Sparse (Y)/N None Y/N
Present on tops of bare (ie non-vegetated) boulders/cobbles + under Fucus blades. (The 2 domin limpet species appear segregated in distr. by tide — ~~Notoacmea persona is found on top of bare rocks while~~ Collisella digitalis is typically under Fucus blades, especially the larger individuals.)

OTHER OBSERVATIONS: Two signed anadromous fish streams located (# 12960 + # _____)
Also 2 additional potential anadromous fish streams located (low to very low potential). SEE MAP. Pink salmon observed in nearby waters. Seagrass beds + clam beds also present with segment (SEE MAP). Jellyfish (Aurelia sp.) observed in nearshore waters

CLEANUP PRECAUTIONS: Insufficient oiling present to justify disturbance/damage to both the intertidal + subtidal communities. Ecologically sensitive areas such as anadromous fish streams, clam beds, mussel beds + seagrass beds should not be disturbed. In areas of light-moderate oiling higher wave energy should induce self-cleaning.

MAMMALS: Otters 4 Harbor Seals ____ Sea Lions ____ Whales _____
Other _____

BIRDS: 1 - Common Merganser, 2 crows feeding intertidally, 2 Oyster Catchers, 1 Bald eagle, Numerous Kittiwakes, 3 Pigeon guillemots, numerous glaucous-winged gulls

GENERAL OBSERVATIONS: Many different microhabitats exist within this segment including clam beds, mussel beds + seagrass beds which are ecologically sensitive areas. Anadromous fish streams are also present. ~~The overall species diversity + abundance within this segment is relatively high~~ due to the increased #'s of microhabitats.

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 8-15-89 Location NAKED IS Site Cabin Bay

Location Prefix NA Segment # NA-24 Length 7100 m

Survey Method:

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

Ground ✓ _____ (G - indicate on map)

Known cultural resources (AHRS #) none Data Source _____

Oil conditions/beach visibility trace to moderate

Width of beach zone surveyed 10-15 m Tree fringe surveyed 10m

Cultural resources observed in beach zone (AHRS code) none

Cultural resources observed in tree fringe (AHRS code) none

General observations justifying survey method and segment's site probability

Shore Profile moderate angle boulder/cobble, vertical walls to

Fresh Water Sources several streams, some probably anadromous.

Sea Exposure mostly protected

Access/Safety good access, safe

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

Monitoring during cleanup needed yes/no Collection yes/no

Photos: Color Roll # — Frames —

B/W Roll # — Frames —

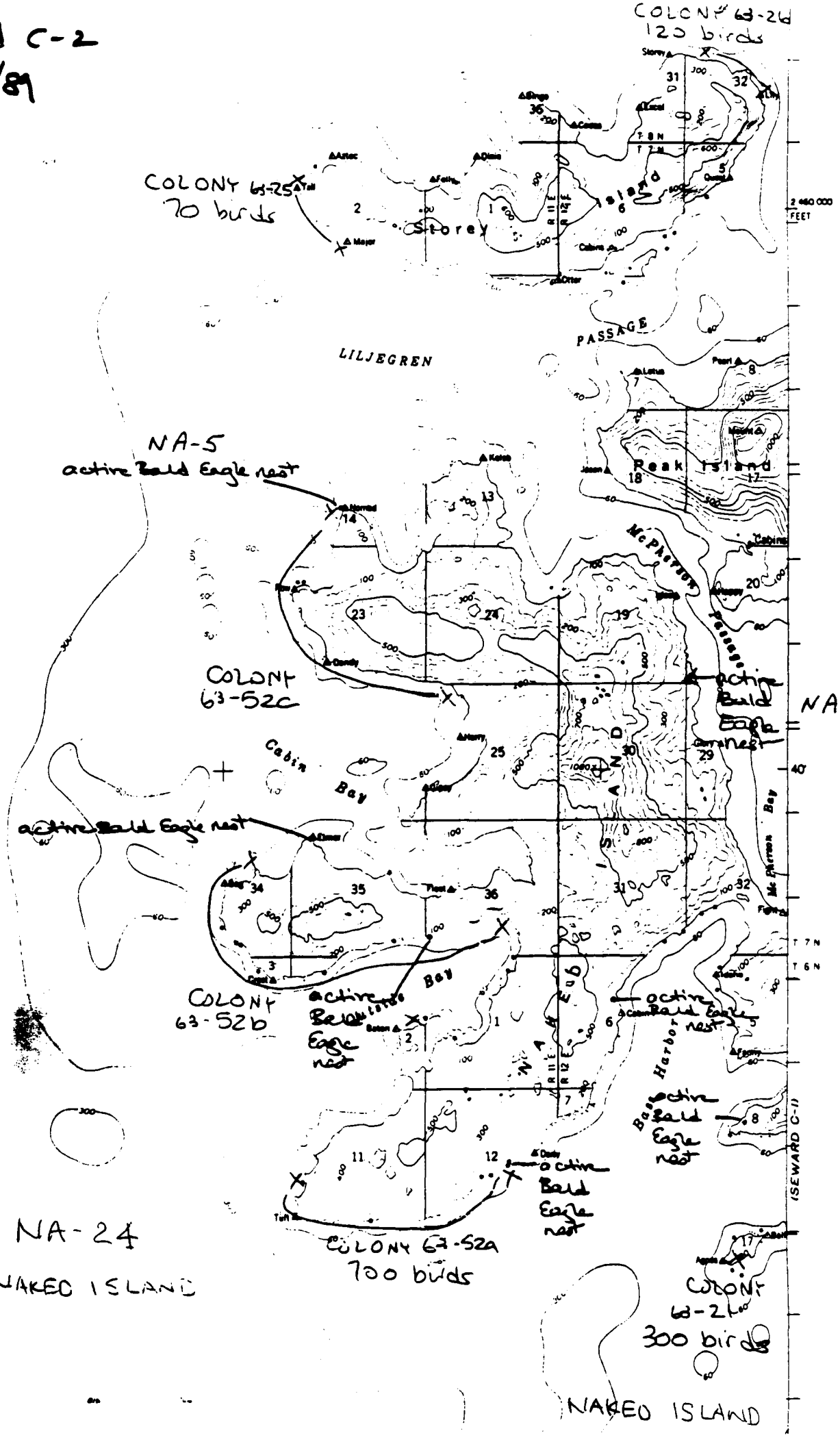
Observer(s) R G. Phipps

Time survey started 0925 Time survey ended 1055

Cultural resource considerations/restraints:

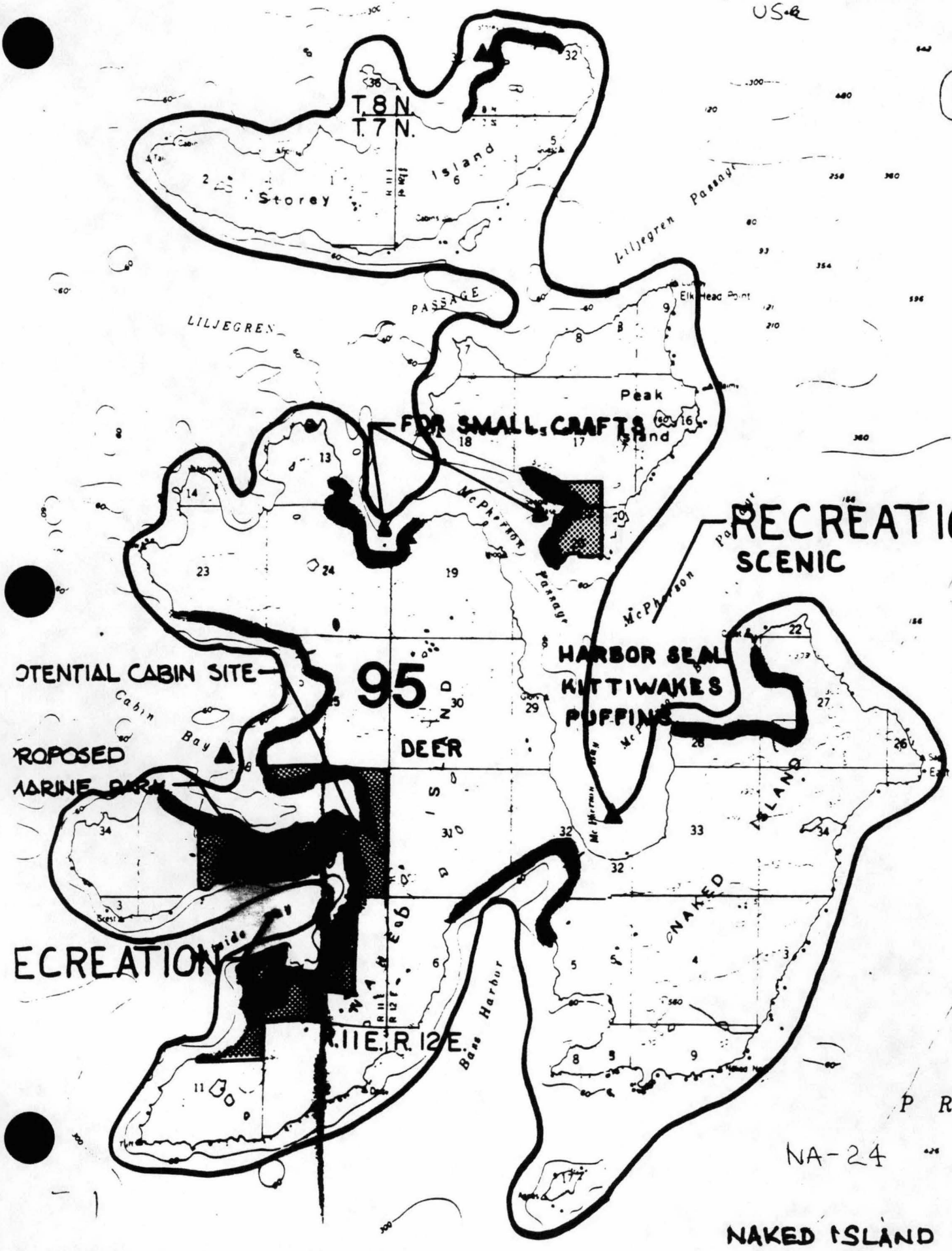
Standard Constraints

Seward C-2
5/28/89



medium recreational
USE

(14)



PRIN

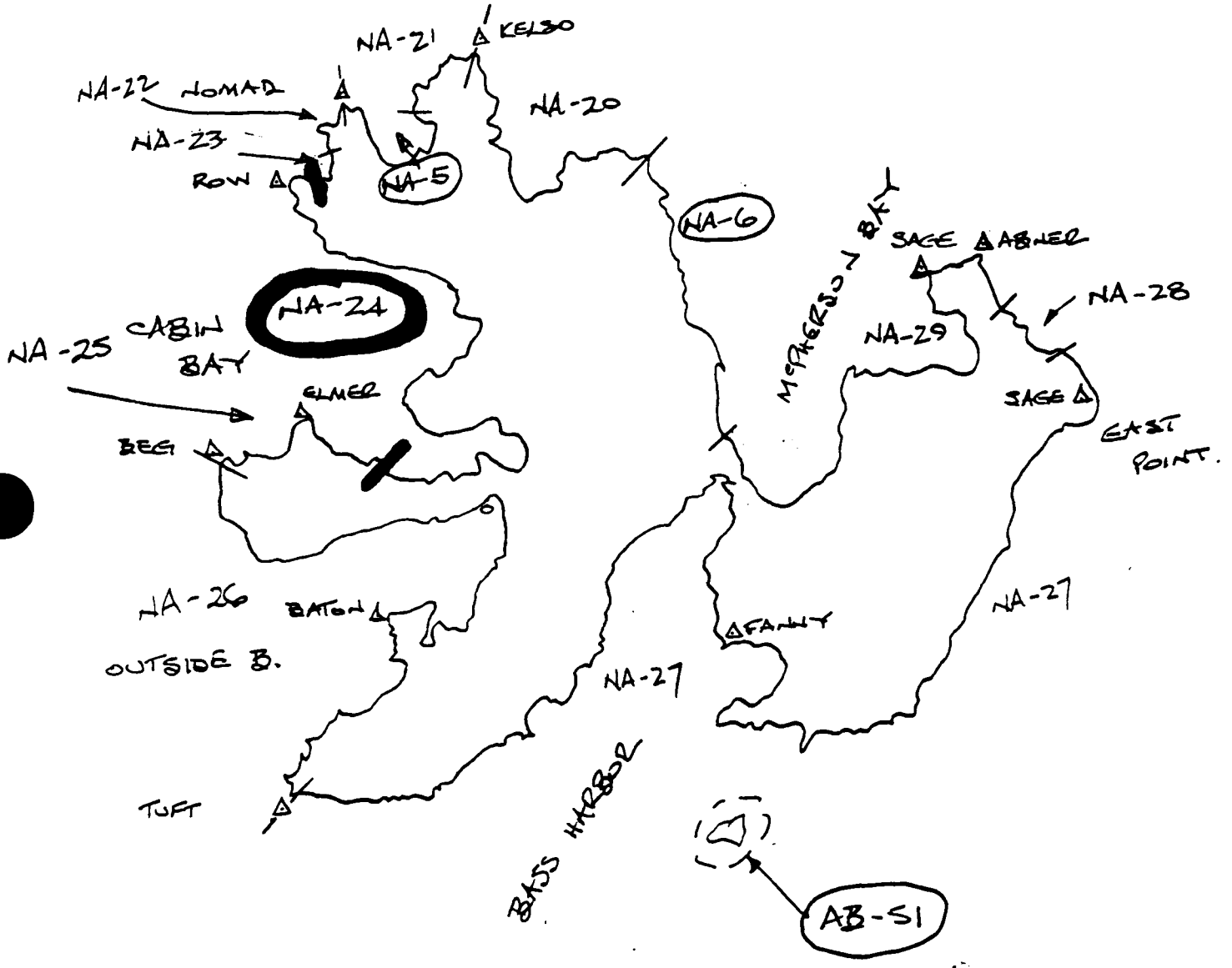
NA-24

NAKED ISLAND

Scale 1:80,000 (1" = 1.26 miles)

REFERENCE MAP.

All segments except for NA-5, 6 & AB-51 were scoped, as per TEAM 1 (Briska) task list of 8/10/89.



G. MACDONALD. AUG '89.

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 8/22/89 SHORELINE SEGMENT NA-25

LOCATION: (see enclosed map) NAKED ISLAND-CABIN BAY,

SOUTH SIDE (NAKED ISLAND WEST BLOCK)

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 8/15/89

Recommended Cleanup Activity(ies):
No cleanup is recommended at this time (subject to FOSC reassessment at a later date), due to discontinuous, moderate oil and high wave exposure.

Priorities Considerations:
Class 3: Moderate oil
A: Resources present
Medium recreational use

Ecological Constraints (from site survey):
Rich intertidal life may be adversely effected by cleanup activities, therefore, no cleanup is recommended. An active bald eagle nest is located in this segment, see advisory.

Archeological Constraints (from site survey):
No upland access. If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon's Archeological Field Director and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

State Historic Preservation Officer * Date: 8/23/89

ISCC: Sharon K. Christopherson Date: 8/28/89

EXXON: Daniel R. Tyt Date: 8.28.89

FOSC: David Zelwoski Date: 8-28-89

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

SHORELINE OIL EVALUATION

Date: 8/15/89 Time: 17:00 Observer: GRAHAM MACDONALD

Surveyed From: (Foot)/(Boat)/Helio/Plane Weather: (Sun)/(Cloud)/Rain/Snow/Fog

LOCATION

LOCATION West Naked Island SEGMENT NUMBER NA-25

LENGTH OF SHORELINE SEGMENT: 2,750 m

ACCESS: Foot/Vehicle/(Boat)/(Barge)/Helio/Float Plane

SHORELINE:

Shoreline Type: SPI/BEA/COV/(HLD)/(STRT) Slope: LANG/(HANG/VER) MOD -

Wave Exposure: (High)/Med/Low

Sediment: B 30 % / C 30 % / P TRACE % / G 10 % / S ___ % / M TRACE % / R 30 %

Drift Debris on Beach: Yes/(No) Supra/Upper/Mid/Lower Type _____

OIL

Degree of Oiling: Heavy/(Moderate)/Light/(No Oil)/Unobserved

Area of Beach Impact: SU / (SP) / (H) / M / L ← Moderate oil

Continuous: Y/(N) % of Segment <15% Width of Band: 5 m

Sporadic: (Y)/N % of Segment 20%

Est. Oil Thickness where > 1cm: _____ cm Est. Oil Penetration: ≤10 cm

Pooled Oil: _____ % "Free" Oil: 10 % Coated: H ___ % / M ___ % / L 90 %

Fresh _____ % Mousse 10 % FRESH Tar Formation: 90 %

Drift Debris Oiled ? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L/

Comments:

Moderately oiled beaches in 2 locations with trace-light splats, drips and thin tar lines on N.N.W. aspects.

High wave action, as evidenced by subrounded clasts & scoured/polished bedrock, will clean all the oiled sites.

trace very old dried tar deposit.

DOCUMENTATION:

Map/Aerial photo marking segment boundaries Attached.

VTR: Y/N Tape Number(s)

Photography: Y/N Roll Number(s) TI G1, # 12, 13, 14.

Sample Numbers Collected: NONE

#12 general view to west of moderately oiled beach @ location 1 oil extends to 2nd figure

#13 detail of mousse trapped in gravel behind boulders.

#14 detail of very old (several years) dried tar deposit which is present on many beaches in the western PWS.

8/15/89 Segment NA-25.
17.00 HRS

Steep - mod. to bedrock w/ boulders shore; mod. exposed;

① soft tar @ up. HTTZ — mature mousse; some free mousse trapped in gvls-over-bedrock behind bldrs; oil zone 5-10 cms deep; drips & splats extend below this band to mid. HTTZ; total length affected 115 m, of which 75 m is mod. width (5 m wide); subrounded bldrs & cobs. indicate mod exposure; scoured bedrock indicates mod. hi. exposure — this site will self-clean through abrasion & strong wave action — photo # 12 general view west.
13 detail of mousse trap.

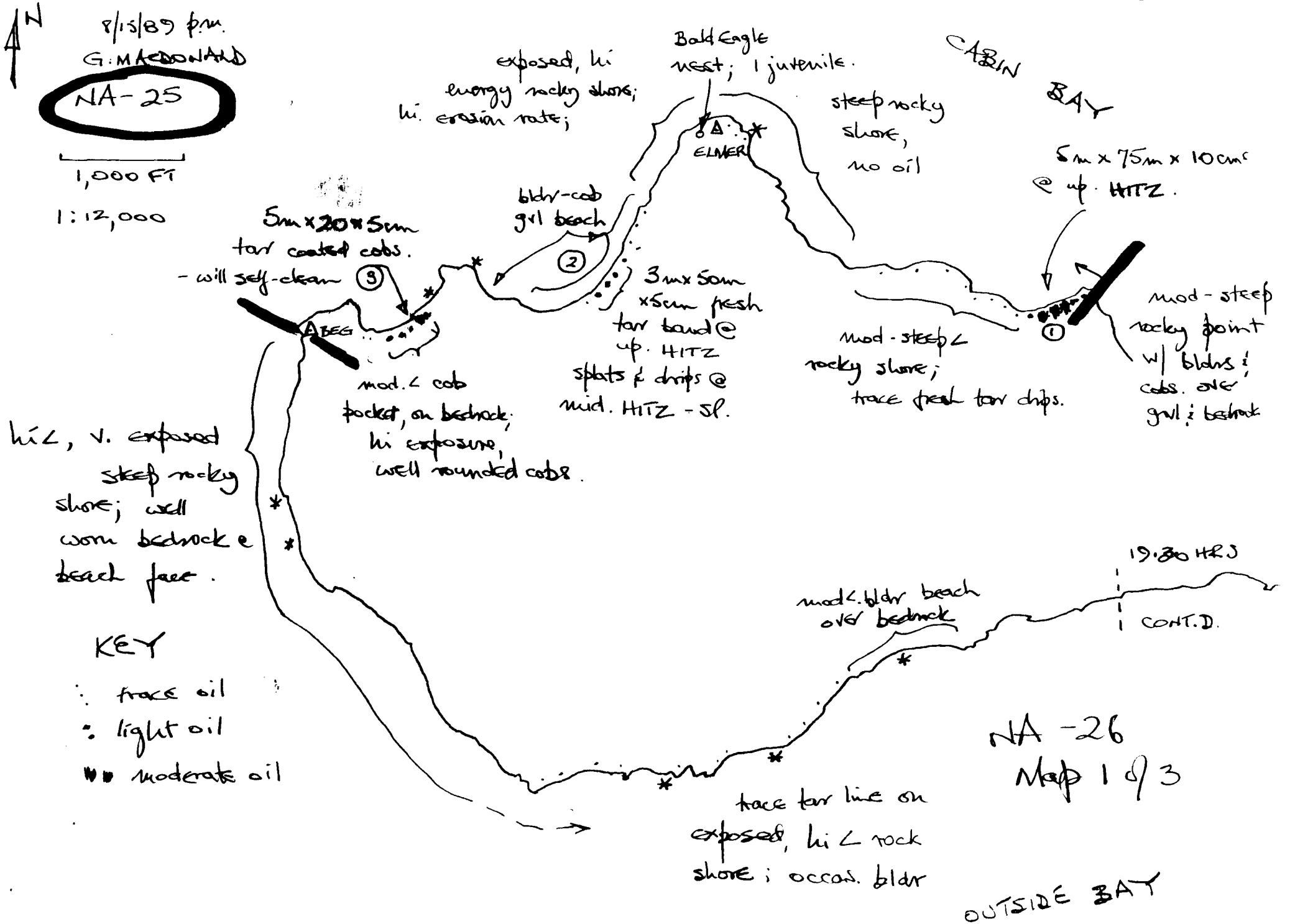
mod < - steep rocky / boulder shore; outcrop & some cob/peb-gvl beaches - trace drips & spots mousse. Bedrock weathers easily; black, easily eroded slatey mudstones here - Δ ELMER 17.35 HRS

②.
light oil SW of Δ ELMER
trace old (years old) dry tar splat - photo # 14. subconch. fx;

③.
20 m long band of mod. oil (5 m wide) hi. E. cob. beach; well worn bedrock exposed in beach face; will self-clean; tar stained pebs. washed up beach to supra z. in places.

steep rock outcrop to Δ BEG
no oil.

18.45 End of SEGMENT


N
8/15/89 p.m.
G. MACDONALD
NA-25
1,000 FT
1:12,000
exposed, hi energy rocky shore; hi. erosion rate;
Bald Eagle nest; 1 juvenile.
ELMER
CABIN BAY
steep rocky shore, no oil
5m x 75m x 10cm @ up. HITZ.
bldr-cob gvl beach
2
5m x 20m x 5cm tar coated cobs. - will self-clean
3
BEG
3m x 5cm x 5cm fresh tar band @ up. HITZ
splats & drips @ mid. HITZ - SP.
mod. ∠ cob pocket, on bedrock; hi exposure, well rounded cobs.
mod-steep ∠ rocky shore; trace fresh tar drips.
1
mod-steep rocky point w/ bldrs & cobs. over gvl & bedrock
hi ∠, v. exposed steep rocky shore; well worn bedrock & beach face.
KEY
trace oil
light oil
moderate oil
mod ∠ bldr beach over bedrock
19:30 HRS
CONT.D.
NA-26
Map 1 of 3
trace tar line on exposed, hi ∠ rock shore; occas. bldr
OUTSIDE BAY

ECOLOGICAL EVALUATION

LOCATION: Prince William Sound SITE: W. Naked Island - Cabin Bay OBSERVER: S. Dearn

LOCATION PREFIX: _____ SEG. NO.: NA-25 LENGTH: 2,750 (M)

DATE: 08 / 15 / 89 TIME (HHMM): 1700-1845 TIDE HT.: 3.0 - 6.0 ft.

OILED ZONE: Splash High Medium Low

SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud

LIVE BIOTA

Fucus (algae): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
Patchy on cobble/boulder beach. Dense, continuous bands present on rocky outcroppings, especially outside bay.

Mytilus (Mussels): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
Small, infrequent patches in most areas. ↑ # + size of patches on rocky outcroppings near points.

Balanus (Barnacles): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
Dense, continuous band, primarily on tops + sides of larger boulders + vertical rock walls.

Littorina
Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
Scattered across beaches ± under + amongst Fucus

Limpets: Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
Very few. When present in oiled areas, individuals do not "stick" to rock (substratum) strongly - indicate stress.

OTHER OBSERVATIONS: Lightly oiled organisms - limpets, barnacles, Fucus + mussels appear stressed. Ma
Moderately coated organisms (ie, organisms completely covered w/ moderate oil) are dead (gaping empty mussels dead barnacles + dead Fucus). Seagrass (Zostera) present in shallow subtid
Jellyfish (Aurelia) also in these waters.

CLEANUP PRECAUTIONS: If any cleanup should occur — avoid trampling of healthy flora + fa
Maintain at least 300 ft distance from shore near active eagle nest (SEE MAP). Avoid recontami
of nearby intertidal + subtidal organisms.

MAMMALS: Otters 1 Harbor Seals ____ Sea Lions ____ Whales ____
Other _____

BIRDS: 1 nest + 3 eagles — 2 adults + 1 juvenile (young bird w/ plumage indicating age of 1 yr or less). Kittiwa

GENERAL OBSERVATIONS: Species diversity + organism abundance within segment is typica
of areas w/ relatively high wave exposure. Most organisms are found associated w/ rocky outcroppings of headlands rather than cobble/boulder beaches.

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 8-15-86 Location NAKED IS Site Cabin Bay

Location Prefix NA Segment # NA-25 Length 2750m

Survey Method:

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

Ground ✓ (G - indicate on map)

Known cultural resources (AHRS #) None Data Source AHRS

Oil conditions/beach visibility Moderate to trace, good visibility

Width of beach zone surveyed 10 m Tree fringe surveyed 10-15m

Cultural resources observed in beach zone (AHRS code) none

Cultural resources observed in tree fringe (AHRS code) CMT's (10-1

General observations justifying survey method and segment's site probabilit-

Shore Profile Vertical Rock walls, mod. to low angle beaches, cobble.

Fresh Water Sources streams, back beach pooling.

Sea Exposure North, moderately high energy exposure

Access/Safety good access, safe.

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

Monitoring during cleanup needed yes/no Collection yes/no

Photos: Color Roll # — Frames —

B/W Roll # P6P# 14 Frames 9-10

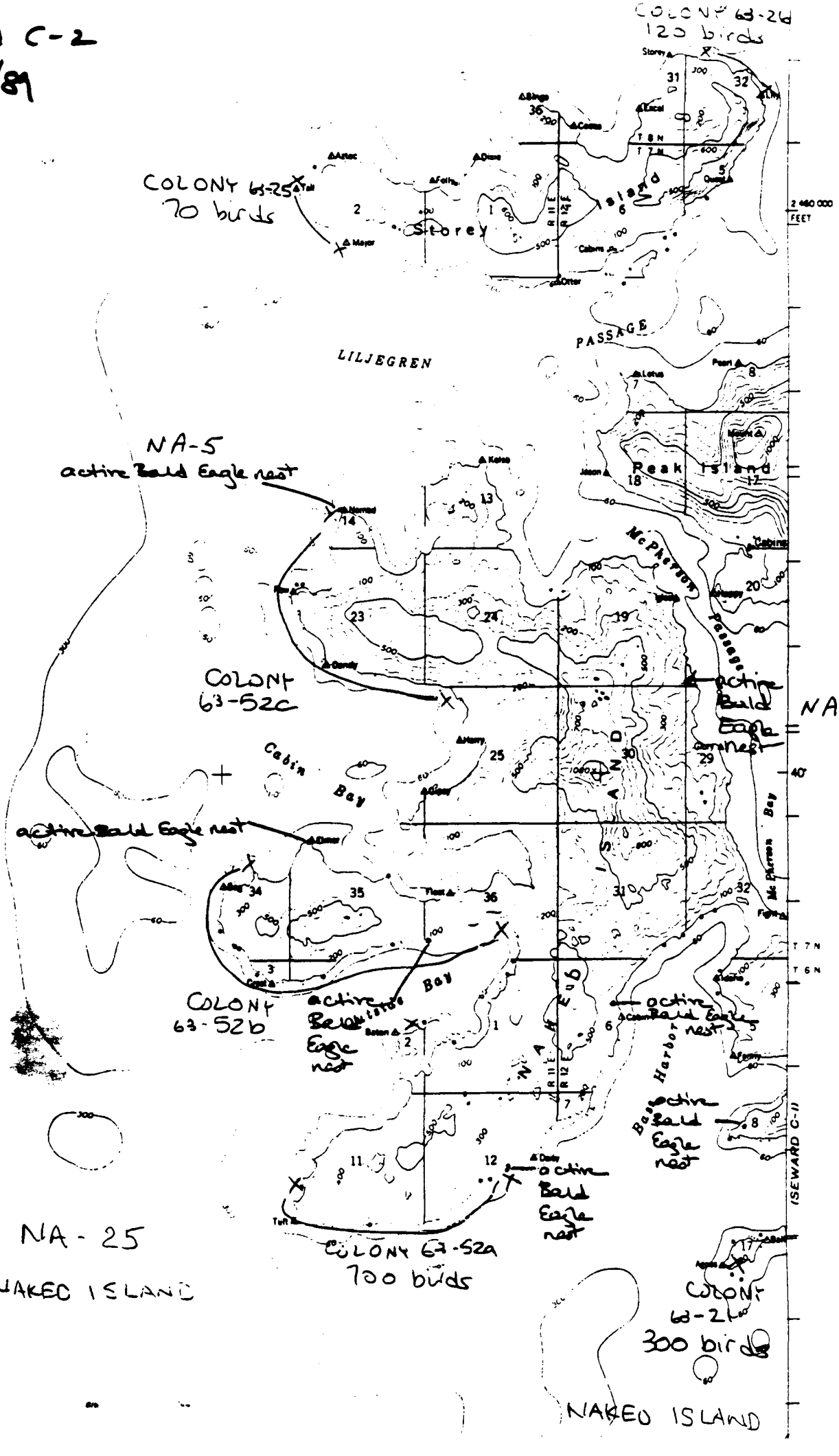
Observer(s) G. Phippen

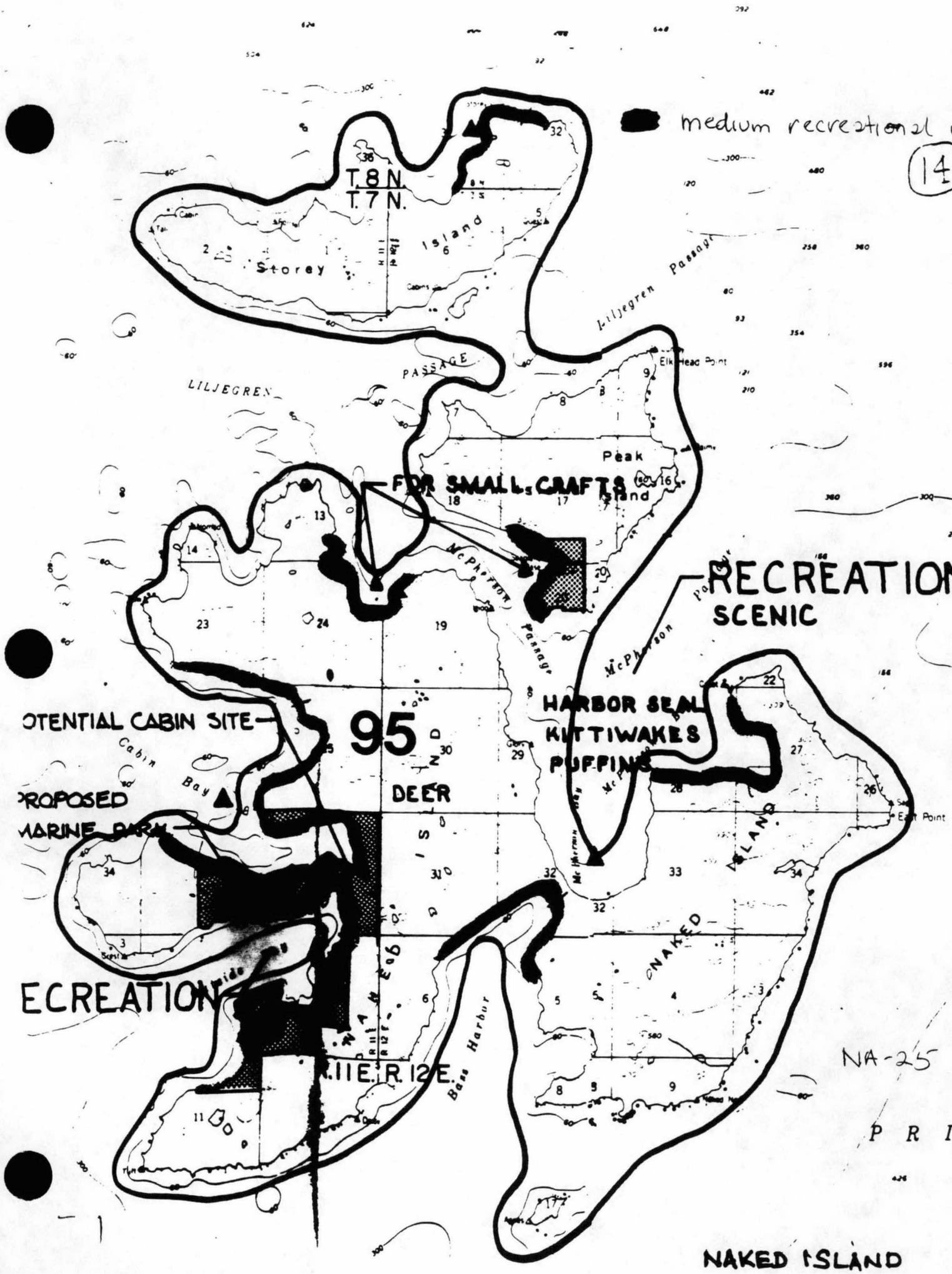
Time survey started 1700 Time survey ended 1845

Cultural resource considerations/restraints:

Standard Constraints, No access to UP/small.

Seward C-2
5/28/89

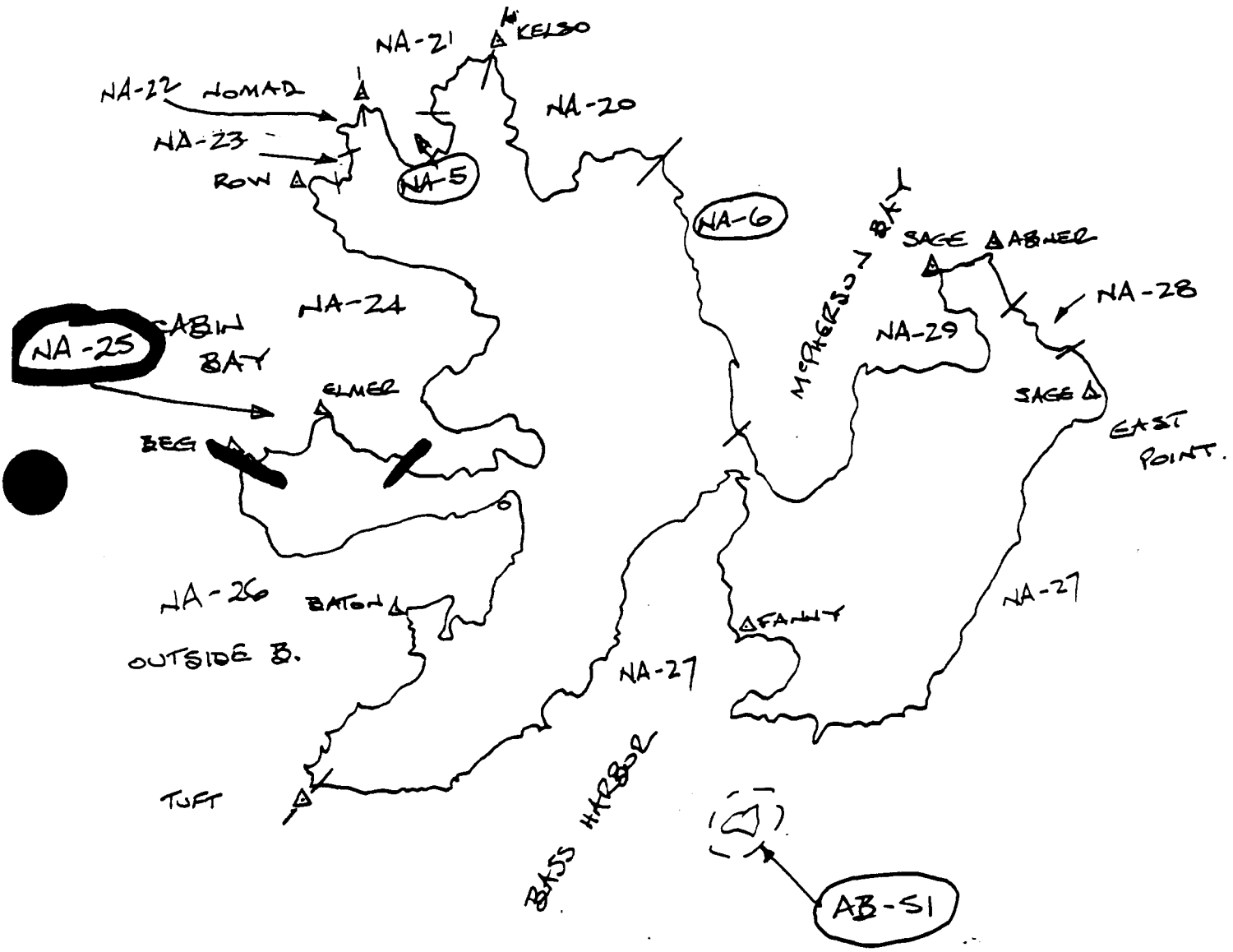



medium recreational use
14
T.8 N.
T.7 N.
Storey
Island
Liljegren Passage
LILJEGREN
PASSAGE
Elk Head Point
Peak
Island
FOR SMALL CRAFTS
McPherson Passage
RECREATION:
SCENIC
HARBOR SEAL
KITTIWAKES
PUFFINS
POTENTIAL CABIN SITE
Cabin Bay
95
DEER
PROPOSED
MARINE PARK
East Point
NAKED ISLAND
RECREATION
R.11E. R.12E.
Bass Harbor
NA-25
PRIN
NAKED ISLAND

Scale 1:80,000 (1" = 1.26 miles)

REFERENCE MAP.

All segments except for NA-5, 6 & AB-51 were scoped, as per TEAM 1 (Briska) task list of 8/10/89.



G. MACDONALD. AUG '89.

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 8/22/89 SHORELINE SEGMENT NA-26

LOCATION: (see enclosed map) NAKED ISLAND-OUTSIDE BAY

(NAKED ISLAND WEST BLOCK)

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 8/15/89

Recommended Cleanup Activity(ies):
No cleanup recommended at this time (subject to FOSC reassessment at a later date), due to discontinuous, light oil and high wave exposure.

Priorities Considerations:
Class 4: Light oil
A: Resources present
Medium recreational use

Ecological Constraints (from site survey):
Rich intertidal life may be adversely effected by cleaning activities, therefore, no cleanup recommended.

Archeological Constraints (from site survey):
If cleanup is conducted and heretofore undiscovered cultural materials are uncovered, contact Exxon's Archeological Field Director and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

Robert Burnett — Date: 8/23/89
State Historic Preservation Officer *

ISCC: Sharon K Christopherson — Date: 8/28/89

EXXON: Daniel A Tufts — Date: 8.28.89

FOSC: David Zanardi — Date: 8-28-89

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

SHORELINE OIL EVALUATION

Date: 8/15/89 Time: 18:50 Observer: G. MACDONALD

Surveyed From: (Foot) (Boat)/Helio/Plane Weather: (Sun) (Cloud)/Rain/Snow/Fog

LOCATION

LOCATION Outside Bay, Naked Isl. SEGMENT NUMBER NA-26

LENGTH OF SHORELINE SEGMENT: 12,000 m

ACCESS: Foot/Vehicle/(Boat)/(Barge)/Helio/Float Plane

SHORELINE:

Shoreline Type: SPI/BEA/(COV)/(HLD)/(STRT) Slope: (LANG)/(MOD-HANG)/VER

COVE HEADLAND & STRAIT.

Wave Exposure: (High)/Med/(Low) - COVE.

Sediment: B 35 % / C 10 % / P TRACE % / G 10 % / S TRACE % / M TRACE % / R 45 %

Drift Debris on Beach: Yes/(No) Supra/Upper/Mid/Lower Type _____

OIL

Degree of Oiling: Heavy/Moderate/Light/(No Oil)/Unobserved (TRACE)

Area of Beach Impact: (SU / SP / H) / M / L TRACE!

Continuous: Y/N % of Segment _____ Width of Band: _____ m

Sporadic: (Y)/N % of Segment <5%

Est. Oil Thickness where > 1cm: _____ cm Est. Oil Penetration: _____ cm

Pooled Oil: _____ % "Free" Oil: _____ % (Coated): H ____ % / M ____ % / L 100 %

Fresh _____ % Mousse _____ % FRESH Tar Formation: 100 %

Drift Debris Oiled ? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L/

Comments:

In general, a rocky shore characterized by easily weathered steeply bedded sediments w/ boulders and some well rounded steep cobble beaches.
Trace tar drips, splats and v. thin lines @ mid HT Supra zone; discontinuous and often faint.

PAGE 2. No photos; map attached; no other data.

8/15/89 SEGMENTS NA-26
18-50 HRS

Steep outcrop shore, w/ well worn beach; occas bldr-cob. strand, no oil

Outside Bay: < 2 cm wide tar band @ SL, discontin, spots & drips to 3 cm dia.

lagoons & old peat bogs.

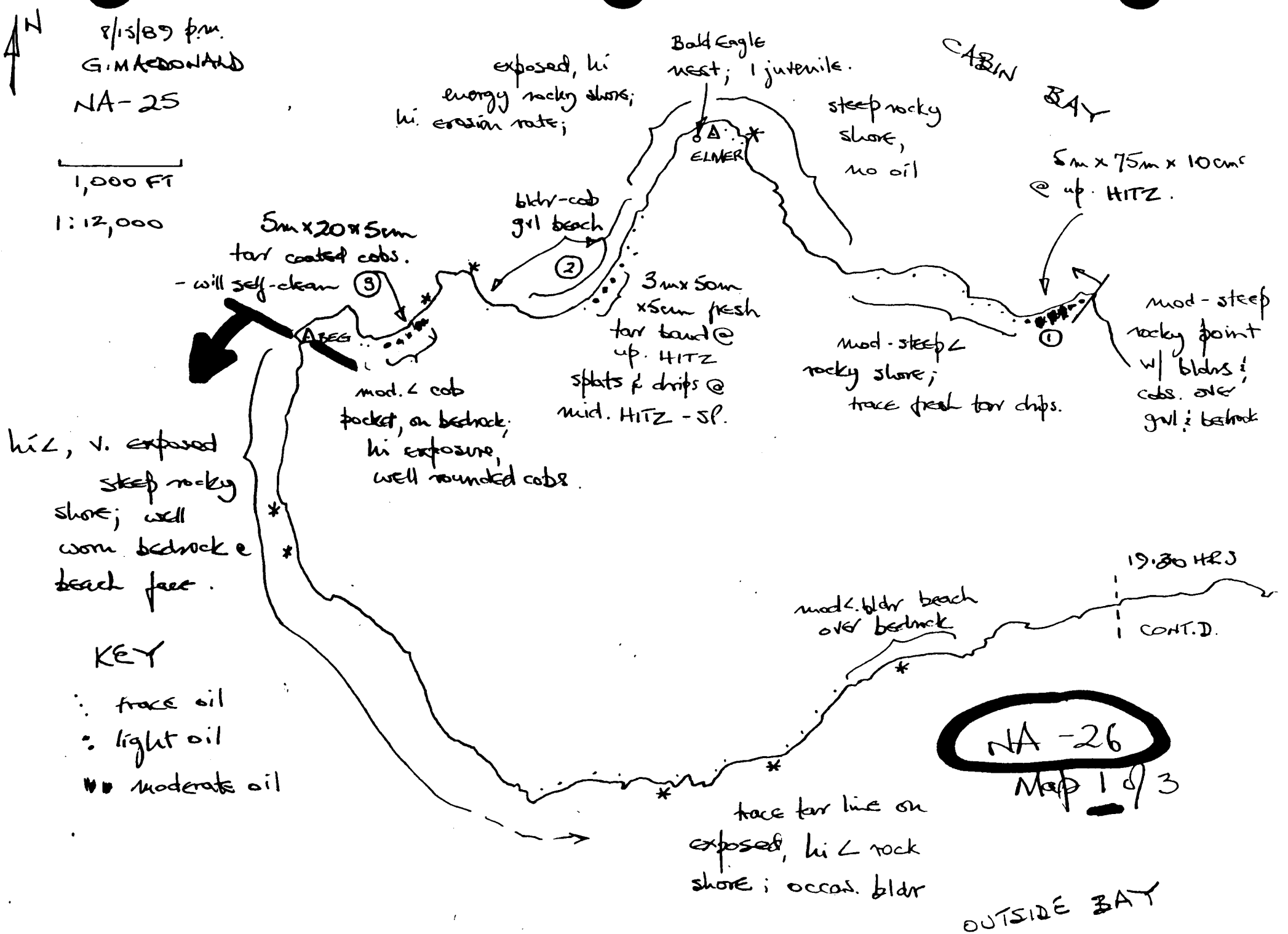
persistent traces of tar spots, drips & v. thin lines ~1 cm wide, discontinuous @ HITZ → supra.

broad stepped rounded cobble beach w/ light oil band - self-cleaning;

steep rock headland. △ TUFT.
no oil.

21-10 HRS

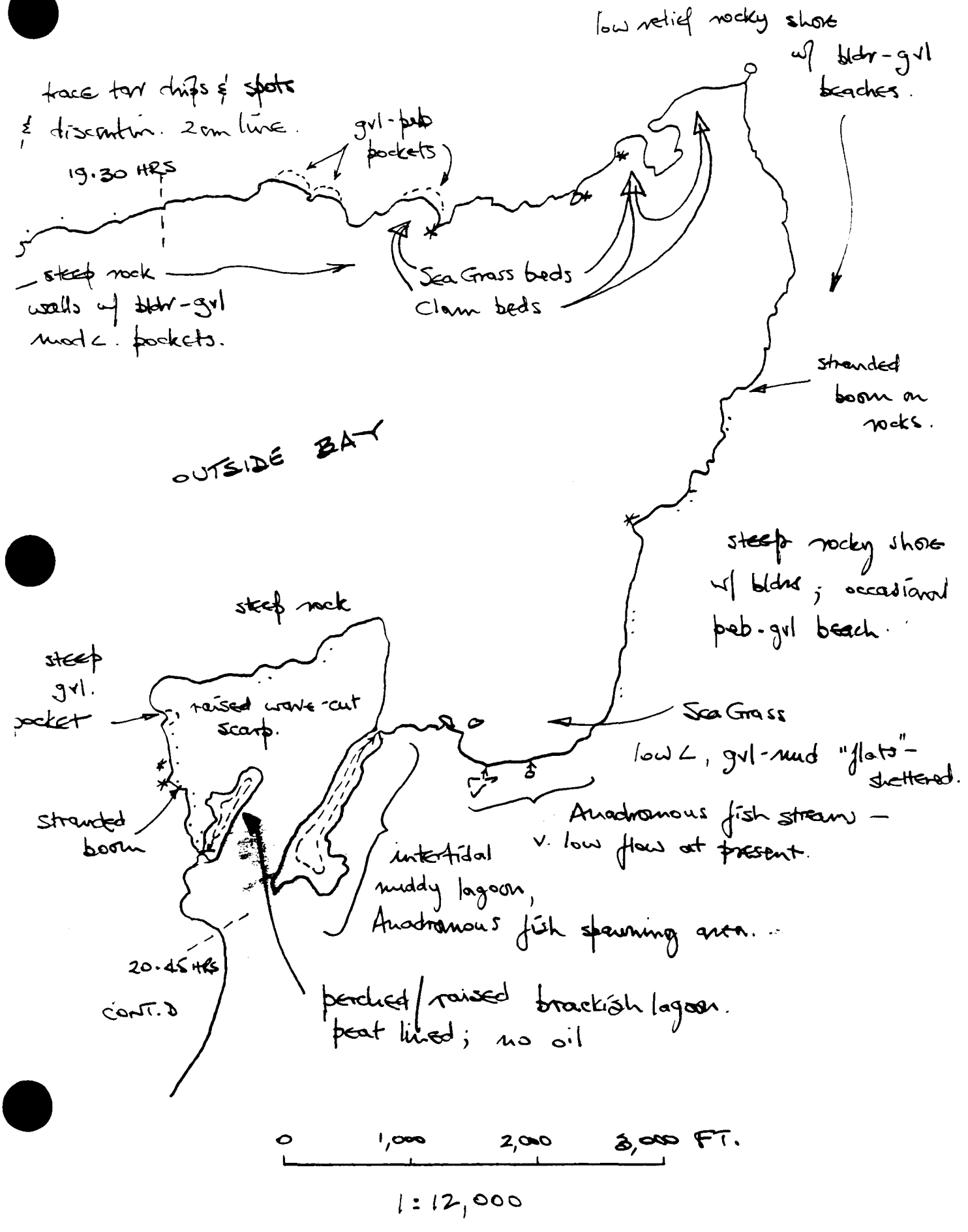
End of SEGMENT


N
8/15/89 p.m.
G. MACDONALD
NA-25
1,000 FT
1:12,000
exposed, hi energy rocky shore; hi. erosion rate;
Bald Eagle nest; 1 juvenile.
ELMER
CABIN BAY
steep rocky shore, no oil
5m x 75m x 10cm @ up. HITZ.
bldr-cob gvl beach
2
5m x 20 x 5cm tar coated cobs. - will self-clean
3
3m x 5cm x 5cm fresh tar band @ up. HITZ
splats & drips @ mid. HITZ - SP.
mod-steep rocky shore; trace fresh tar chips.
1
mod-steep rocky point w/ bldrs & cobs. over gvl & bedrock
ABEG
mod. ∠ cob pocket, on bedrock; hi exposure, well rounded cobs
hi ∠, v. exposed steep rocky shore; well worn bedrock & beach face.
KEY
trace oil
light oil
moderate oil
19:30 HRS
mod ∠ bldr beach over bedrock
CONT.D.
NA-26
Map 1 of 3
trace tar line on exposed, hi ∠ rock shore; occas. bldr
OUTSIDE BAY

8/18/89 p.m.
G. MACDONALD

NA-26

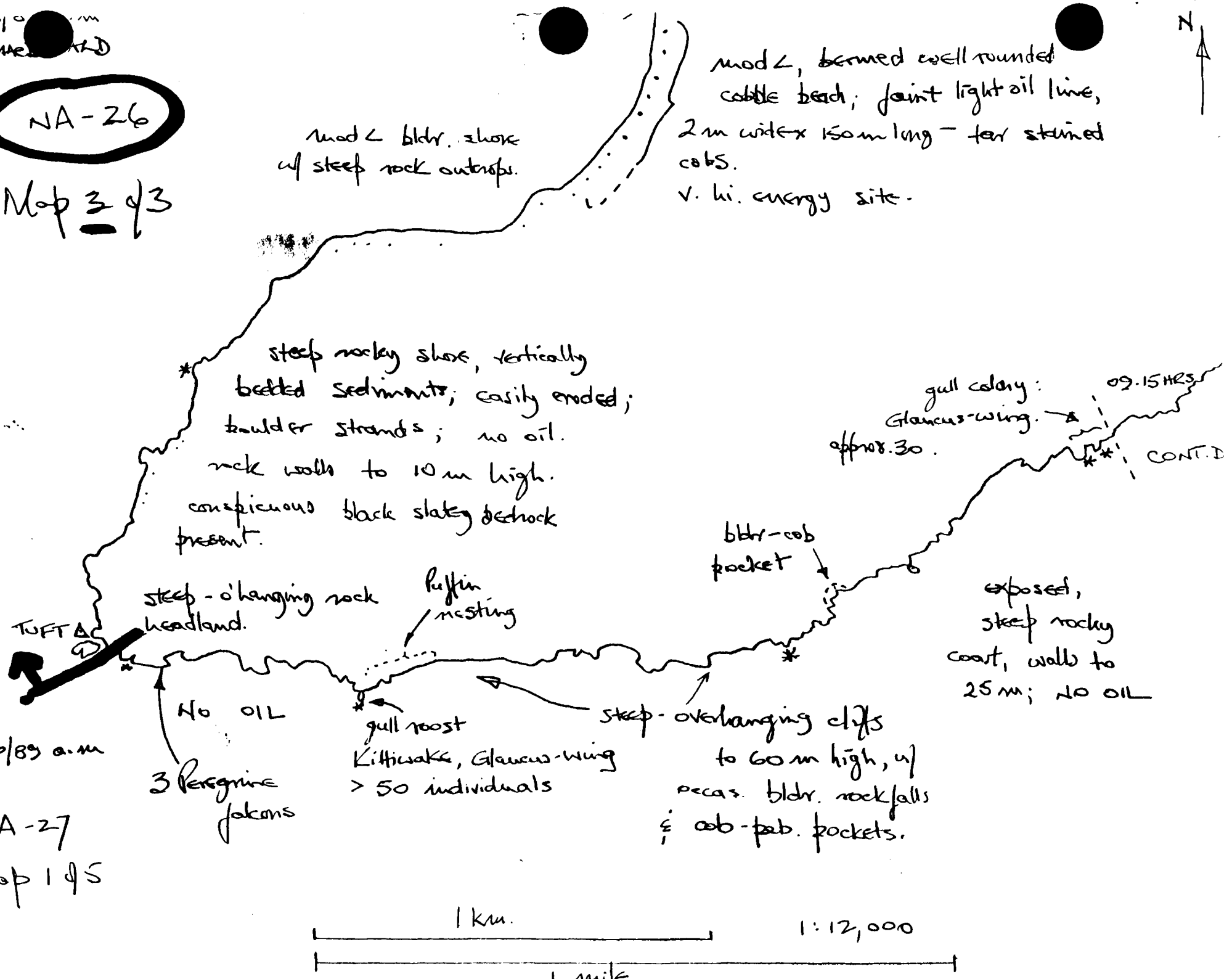
Map 2 & 3



G. MAR[illegible]LD

NA-26

Map 3 of 3



8/16/89 a.m

NA-27

Map 1 of 5

ECOLOGICAL EVALUATION

LOCATION: Prince William Sound SITE: W. Naked Island OBSERVER: S. Dearn

LOCATION PREFIX: _____ SEG. NO.: NA-26 LENGTH: 12,000 (M)

DATE: 08 / 15 / 89 TIME (HHMM): 1850 - 2110 TIDE HT.: 3.0 - 6.0 ft

OILED ZONE: Splash High Medium Low

SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud

LIVE BIOTA

Fucus (algae): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
Dense + continuous on rocky outcroppings outside embayments. Patchy on cobble / boulder beaches.

Mytilus (Mussels): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
Present in ridges of larger boulders + bedrock. Also present interspersed amongst barnacles. Many dead individuals present - apparently due to Nucella predation

Balanus (Barnacles): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
Primarily on tops + sides of cobbles + boulders + large rocks. Semibalanus cariosus present in places - many dead (empty "shells").

Littorina
Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
Scattered across + throughout segment
Nucella present in concentrated aggregations, especially in barnacle zone.

Limpets: Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
Few present low #'s scattered throughout segment. Notoacmaea persona found in higher # on tops of bare rocks, especially higher up.

OTHER OBSERVATIONS: 21 Pisasters (Ochre Stars) present in one region. Many dead Barnacles (Semibalanus cariosus) also nearby. 2 anadromous fish streams located (not marked w/signs). Fish gathering for spawning were present (pink salmon). 1 back tidal lagoon / bog area located - cont eelgrass, worms, urchins + mussels. Sunken logs (submerged trees) + peat also present. Drift seagrass rolled up in wrack - appears oiled but is not - present on several beaches. Seagrass beds, clam beds + mussel beds also present in segment. SEE MAP. Sand lances observed in seagrass beds + subtidal rocks

CLEANUP PRECAUTIONS:
Minimum amounts of oil present - ie, only traces. This does not warrant disturbance/damage to healthy intertidal + subtidal plants + animals. Therefore no clean up is recommended.

MAMMALS: Otters 1 Harbor Seals ____ Sea Lions ____ Whales ____
Other _____

BIRDS: 3 bald eagles, 2 belted kingfishers, 2 sandpipers, 1 pigeon guillemot

GENERAL OBSERVATIONS: Many different microhabitats support a wide variety of organisms. Substrata range from fine soft sand/silts to bedrock + boulders. Wave exposure ranges from calm to exposed. The organisms present reflect these different physical factor regimes + range considerably also.

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 8-15-89 Location NAKED IS Site Outside Bay

Location Prefix NA Segment # NA-26 Length 12,000 m

Survey Method:

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

Ground ✓ (G - indicate on map)

Known cultural resources (AHRS #) None Data Source AHRS

Oil conditions/beach visibility Light to trace

Width of beach zone surveyed 10 m Tree fringe surveyed 10-15 m

Cultural resources observed in beach zone (AHRS code) none

Cultural resources observed in tree fringe (AHRS code) none

General observations justifying survey method and segment's site probabilit

Shore Profile mod. to low angle beaches, Rocky headland

Fresh Water Sources several streams, including anadromous.

Sea Exposure moderate to high energy

Access/Safety good access, safe

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

Monitoring during cleanup needed yes/(no) Collection yes/(no)

Photos: Color Roll # — Frames —

B/W Roll # — Frames —

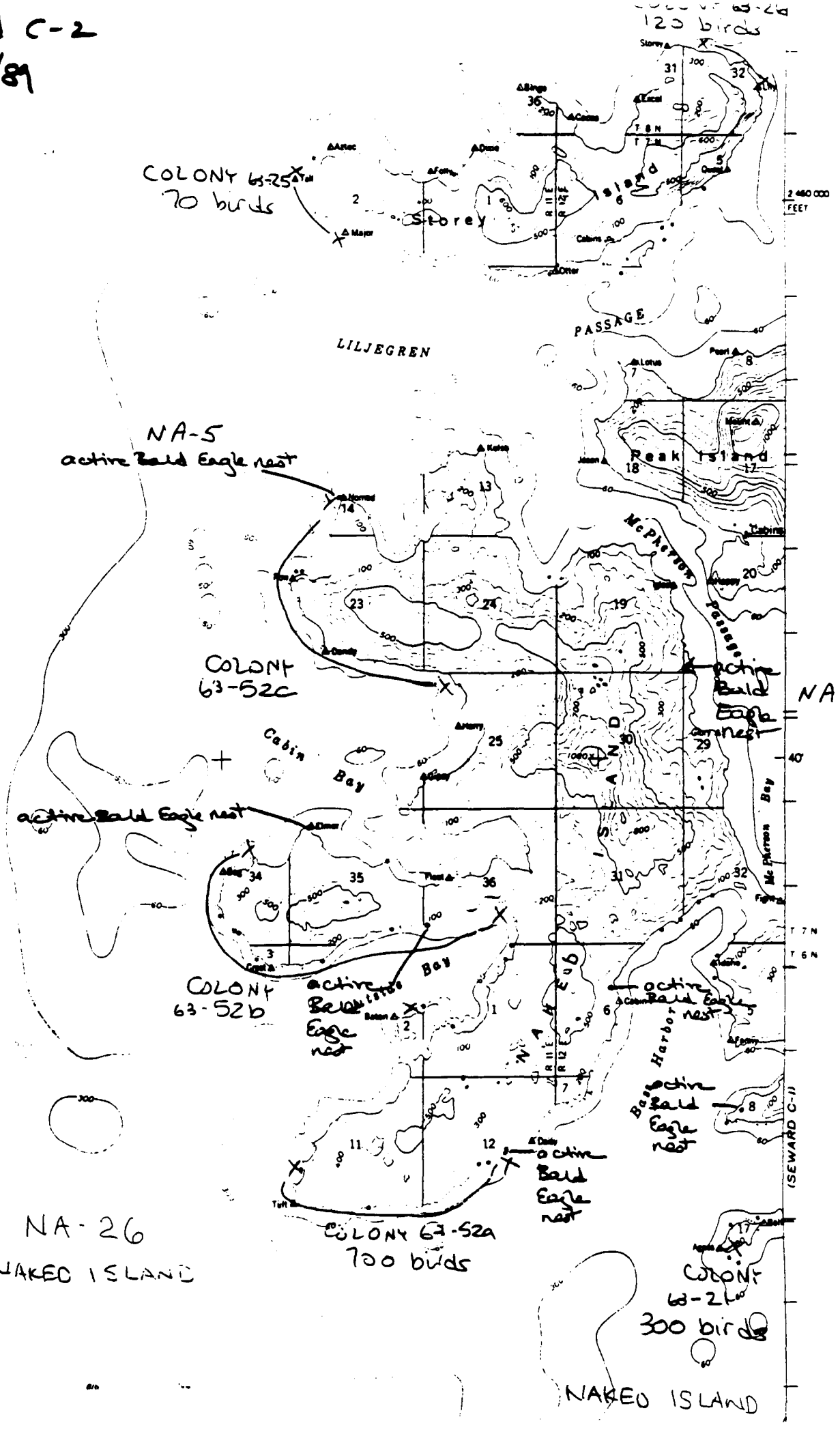
Observer(s) P.G. Phippen

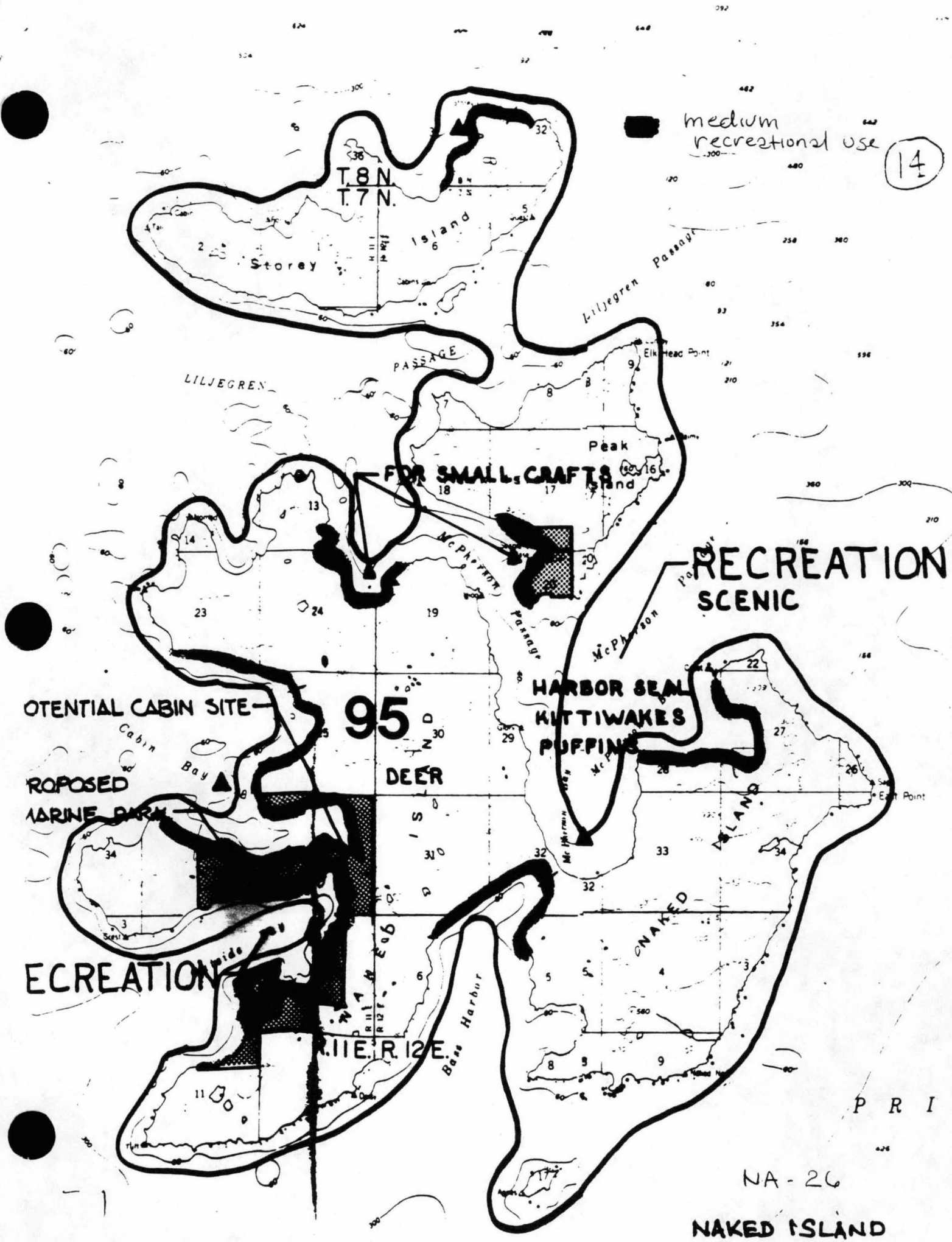
Time survey started _____ Time survey ended _____

Cultural resource considerations/restraints:

Standard

Seward C-2
5/28/89

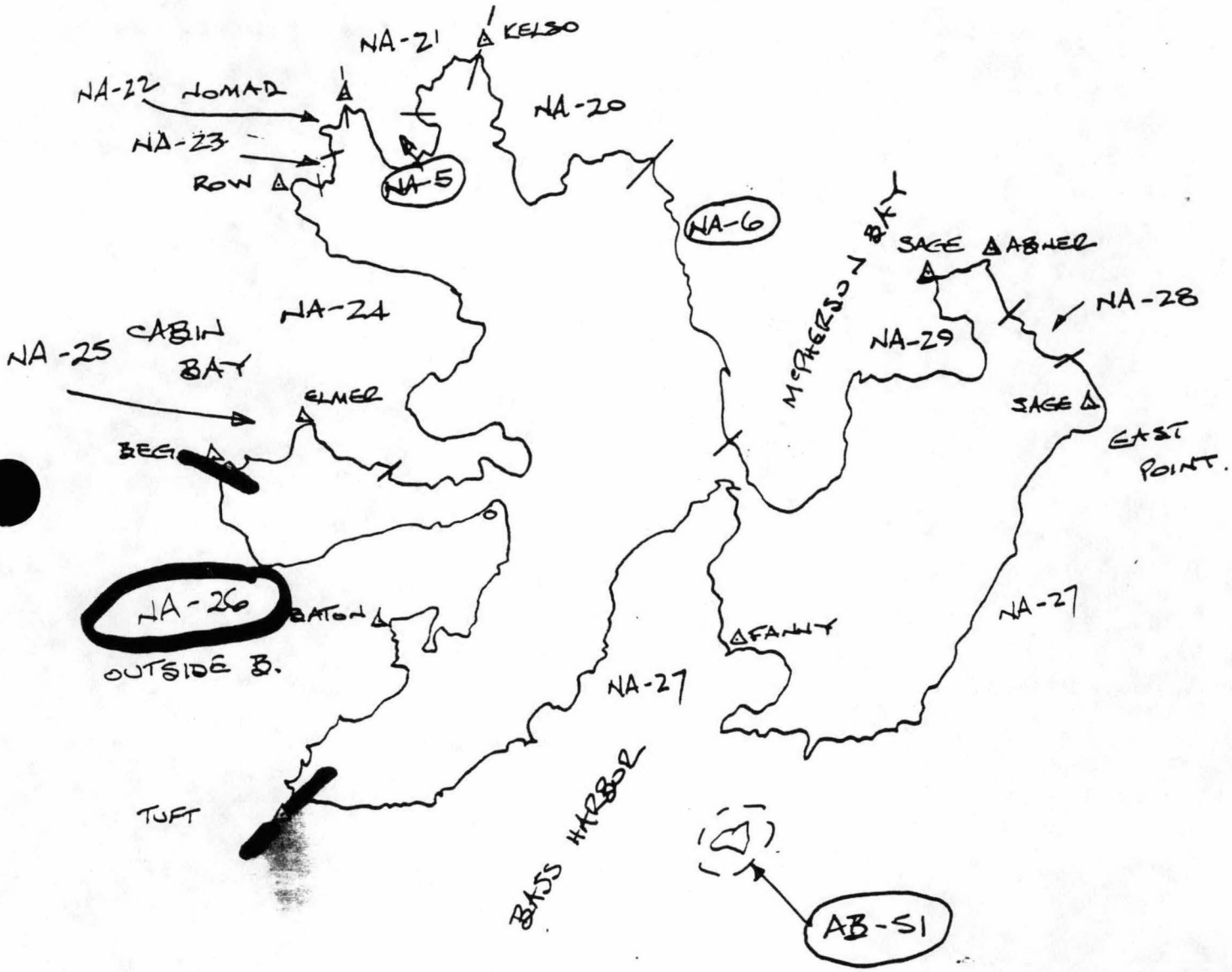



medium recreational use
14
T.8 N.
T.7 N.
Storey
Island
Liljegren Passage
LILJEGREN
PASSAGE
Elk Head Point
Peak
Island
FOR SMALL CRAFTS
McPherson Passage
RECREATION:
SCENIC
HARBOR SEAL
KITTIWAKES
PUFFINS
95
DEER
ISLAND
OTENTIAL CABIN SITE
Cabin Bay
ROPOSED
ARINE PARK
ECREATION
Bass Harbor
R.11E. R.12E.
NAKED ISLAND
East Point
NA-26
NAKED ISLAND

Scale 1:80,000 (1" = 1.26 miles)

REFERENCE MAP.

All segments except for NA-5, 6 & AB-51 were scoped, as per TEAM 1 (Briska) task list @ 8/10/89.



G. MACDONALD. AUG '89.

SEG NA-22 INSPECTION # 1 SEGMENT

DATE 9/8/89 INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment

- [x] Hot water wash
- [ ] Warm water wash
- [x] Water deluge
- [x] Mechanical HAND Wiping
- [ ] Non-mechanical
- [ ] Other

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments TREATMENT OF THE SEGMENT NA-22 IS COMPLETE & READY FOR DEMOBILIZATION TO A NEW SEGMENT

Signature B E Williams Date: 9/8/89 Time: 1310

Printed Name BRUCE E. WILLIAMS

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil

Percent	Degree of Oiling
71	Heavy
5	Medium
5	Light
0	Very Light
89	None
100 %	

Subsurface Oil

- [ ] Yes
- [x] No

COMMENT BELOW

Reassessment

- [x] Yes - necessary
- [ ] No - not necessary unless re-oiled

Existing Shoreline Condition As Visually Determined by ADEC

Surface Oil

Percent	Degree of Oiling
1	Heavy
10	Medium
10	Light
0	Very Light
79	None
100 %	

Subsurface Oil

- [x] Yes
- [ ] No

COMMENT BELOW

Reassessment

- [x] Yes - necessary
- [ ] No - not necessary unless re-oiled

ADEC rep

Comments Some small areas of medium oiling remain

Signature Dale Gardner Date: 9/8/89 Time: 13:30

Printed Name DALE GARDNER

FOSC rep **Demobilization approved/disapproved**

Comments [illegible] CONTAMINATION

Signature [illegible] Date: 9/8/89 Time: 1325

Printed Name Paul Ripley Cook

EXXON ADEC FOSC ISCC

SEG NA-23 INSPECTION # 1

DATE 9/8/89

SEGMENT INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment

- [x] Hot water wash
- [ ] Warm water wash
- [x] Water deluge
- [x] Mechanical HAND WIPING
- [ ] Non-mechanical
- [ ] Other

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments TREATMENT OF SEGMENT NA-23 IS COMPLETE AND READY FOR DEMOBILIZATION & DEPLOYMENT TO A NEW SEGMENT

Signature B.E. Williams Date: 9/8/89 Time: 1310

Printed Name BRUCE E. WILLIAMS

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil

Percent	Degree of Oiling
0	Heavy
12	Medium
18	Light
0	Very Light
70	None
100 %	

Subsurface Oil

- [x] Yes
- [ ] No

COMMENT BELOW

Reassessment

- [x] Yes - necessary
- [ ] No - not necessary unless re-oiled

Existing Shoreline Condition As Visually Determined by ADEC

Surface Oil

Percent	Degree of Oiling
1	Heavy
20	Medium
20	Light
0	Very Light
59	None
100 %	

Subsurface Oil

- [x] Yes
- [ ] No

COMMENT BELOW

Reassessment

- [x] Yes - necessary
- [ ] No - not necessary unless re-oiled

ADEC rep

Comments Some pockets of thick medium oil remain.

Signature Dale N. Gardner Date: 9/8/89 Time: 13:25

Printed Name DALE GARDNER, ADEC INSP

FOSC rep **Demobilization approved/disapproved**

Comments no gross contamination

Signature [illegible] Date: 9/8/89 Time: 1320

Printed Name [illegible]

COPY: EXXON ADEC FOSC ISCC

ISCC 8/28/89
3 active eagle nests
+ Seabird colony

(version 8/04/89)

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Location (see enclosed map): NAKED ISLAND SOUTH BLOCK

Includes Shoreline Segments: NA-27

Submitted : Scott A. Rammer (for Exxon) Date: 8/23/89

ISCC Recommendation: Sharon K. Christopherson Date: 8/28/89

FOSC Approval: David Gaudfri Date: 8/28/89

The cleanup procedures identified in the Shoreline Cleanup Program are recommended. Modifications to these systems can be made in the field. Exxon and other field personnel are encouraged to suggest innovations and productivity enhancements to the OSC's on-scene representative. The OSC's representative has the authority to approve on-site modifications. The Field Resource Team should be consulted if these actions do not fit within the Ecological Constraints of the Shoreline Cleanup Program. Requirements for safety and the protection of cultural material must be observed.

Distribution:

- Exxon Shoreline Coordinator
- Exxon Shoreline Supervisor
- Exxon SCAT file

- SHPO
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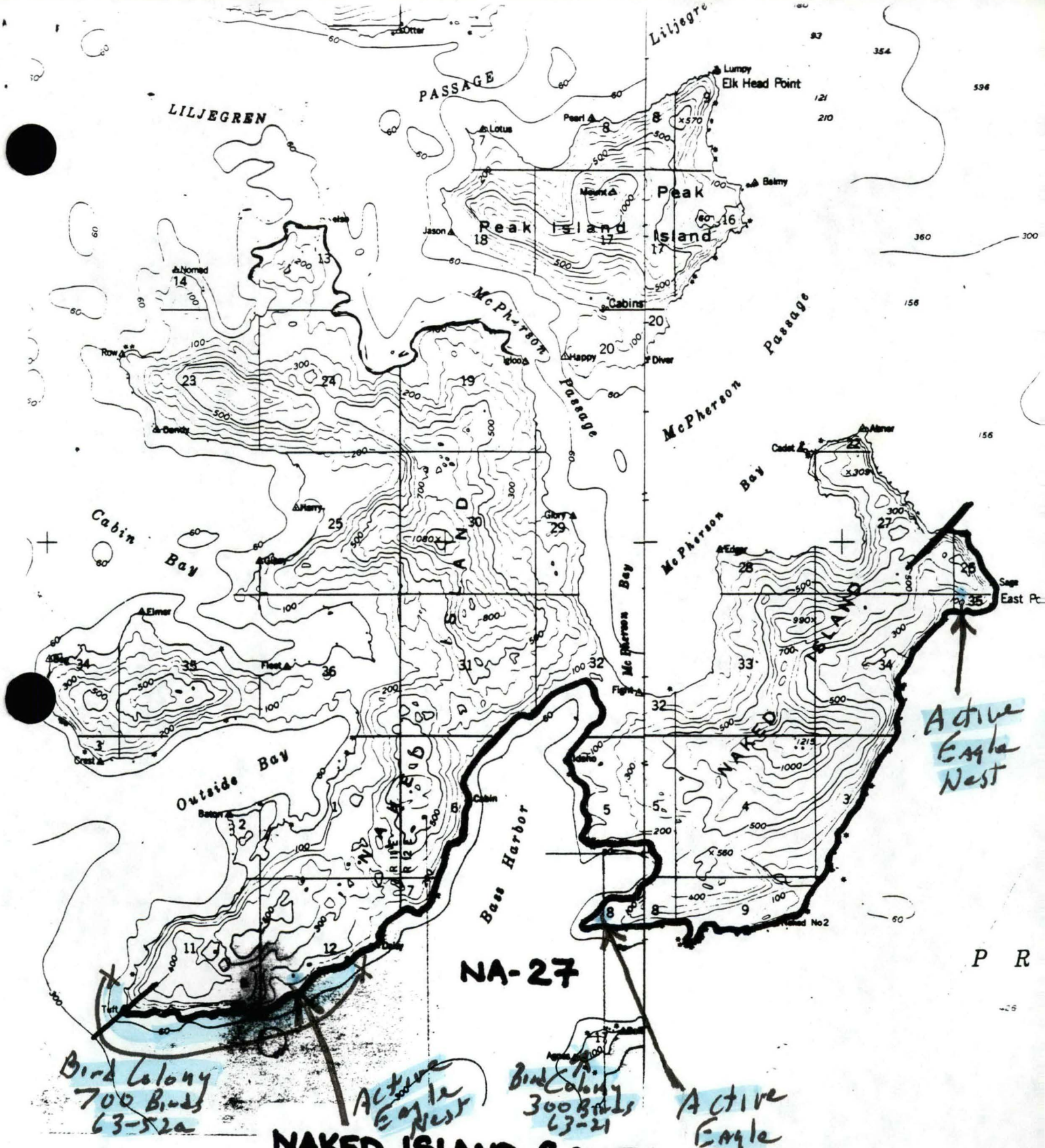


NAKED ISLAND SOUTH BLOCK

NA-27

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 8/23/89 SHORELINE SEGMENT NA-27

LOCATION: (see enclosed map) NAKED ISLAND-SOUTHERN SHORELINE

(NAKED ISLAND SOUTH BLOCK)

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 8/16/89

Recommended Cleanup Activity(ies):
No cleanup recommended at this time (subject to FOSC reassessment at a later date), due to no oil.

Priorities Considerations:
No oil
Medium recreational use

Ecological Constraints (from site survey):
None, since no oil was observed.

Archeological Constraints (from site survey):
If cleanup is conducted and heretofore undiscovered cultural materials are uncovered, contact Exxon's Archeological Field Director and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

Robert Boggess — Date: 8/24/89
State Historic Preservation Officer *

ISCC: Sharon K. Christopherson — Date: 8/28/89

EXXON: Daniel L. Tyler — Date: 8.28.89

FOSC: David Zaunegger — Date: 8/28/89

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

SHORELINE OIL EVALUATION

Date: 8/10/89 Time: 07:50 Observer: G. MACDONALD

Surveyed From: (Foot) (Boat) Helio/Plane Weather: (Sun) (Cloud) Rain/Snow/Foc

LOCATION

LOCATION South & east coast of Naked Island - Outside Bay SEGMENT NUMBER NA-27

LENGTH OF SHORELINE SEGMENT: 22,000 m

ACCESS: Foot/Vehicle (Boat) (Barge) (Helio) (Float Plane)

SHORELINE:

Shoreline Type: SPI/BEA (COV) (HLD) (STRT) Slope: LANG (MOD-HANG/VER)

Wave Exposure: (High) Med/Low

Sediment: B 20 % / C 10 % / P TRACE % / G TRACE % / S TRACE % / M TRACE % / R 70 %

Drift Debris on Beach: (Yes) No (Supra) Upper/Mid/Lower Type logs

OIL

Degree of Oiling: Heavy/Moderate/Light (No Oil) Unobserved

Area of Beach Impact: SU / SP / H / M / L NOT APPLICABLE

Continuous: Y/N % of Segment_____ Width of Band: _____m

Sporadic: Y/N % of Segment_____

Est. Oil Thickness where > 1cm:_____cm Est. Oil Penetration: _____cm

Pooled Oil: _____% "Free" Oil: _____% Coated: H____% /M____% /L____%

Fresh _____% Mousse _____% Tar Formation: _____%

Drift Debris Oiled ? Yes/(No) Supra/Upper/Mid/Lower Amount: H/M/L/

Comments:

A steep rocky shore, eroding easily, often fringed with boulders; pocket beaches on the SE aspects w/ crenulated coast; Outside Bay has a sheltered cove at its head and a small lagoon. Barely a trace of oil as rare thin tar line @ HTTZ, ≤ 5mms wide

Map/Aerial photo marking segment boundaries Attached.

VTR: Y/N Tape Number(s)

Photography: Y/N Roll Number(s) TI G1, # 15 – 18

Sample Numbers Collected: NONE

#15 general view, cliff & small backer.

#16 " " " "

#17 cobble-scoured outcrop.

#18 " " " .

8/16/89 Segment NA-27
07.50 HRS

steep - overhanging cliffline to 15 m;
exposed; occas. bldr-cob. pocket
beaches. 65m cliff max!
outboard failure ... repairs..
08.45 resume SCAT → !

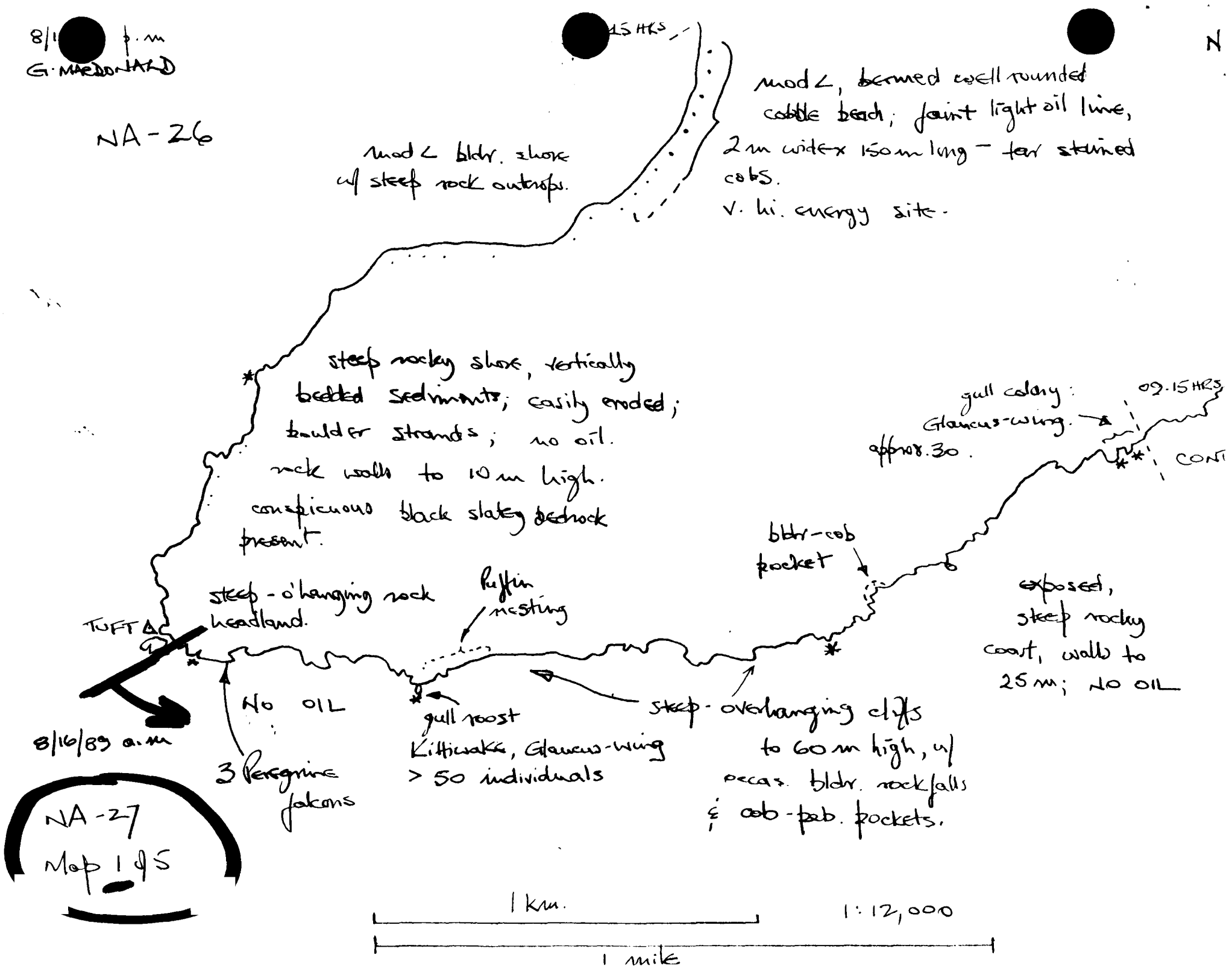
photo #15 general view, cliff + pocket
#16 " " " "
#17 cob. scoured outcrop,
#18 " " " ,

No oil
Bass Harbor no oil.
lagoon no oil.
△ FANNY ; no oil
△ NAKED #2; no oil 10.50
v. exposed rocky coast.
overturned beds, rockslides; fast
erosion here!
Coast Point - cliffs to 60 m. overturned
& pinched beds in rock.

11.30 HRS End of SEGMENT

8/1[illegible] p.m
G. MACDONALD

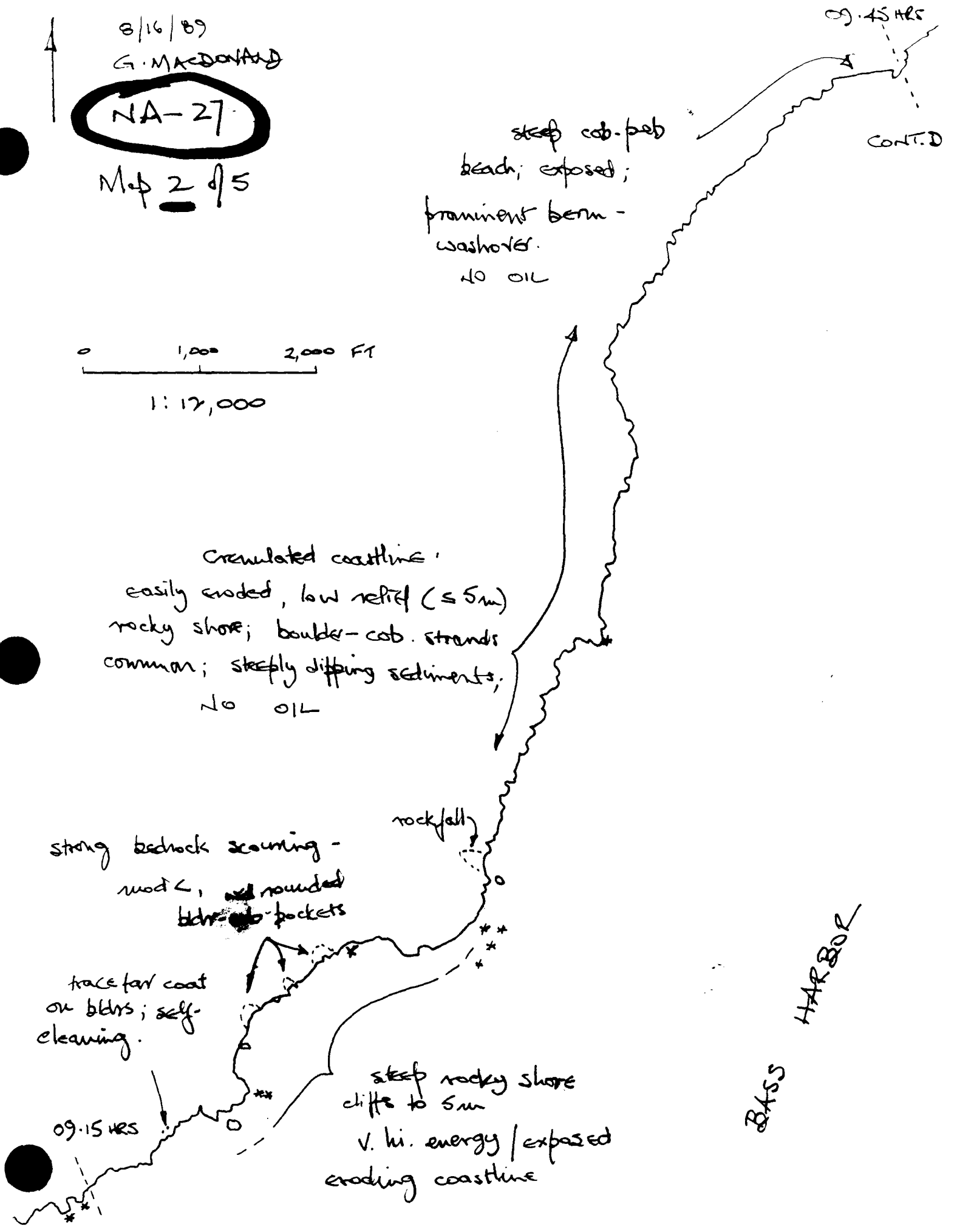
NA-26

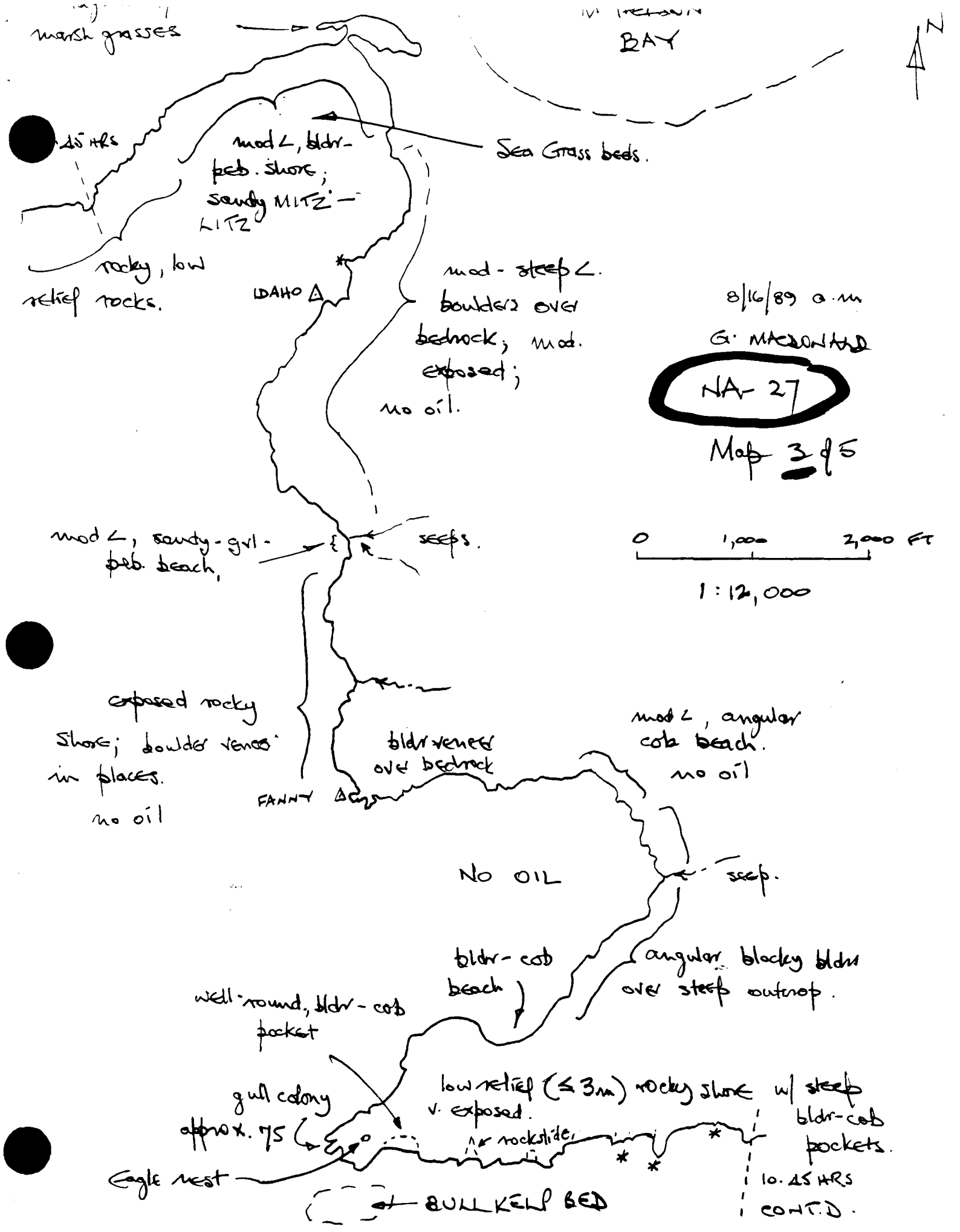


8/16/89
G. MACDONALD

NA-27

Map 2 of 5




marsh grasses
BAY
N
Sea Grass beds.
mod ∠, bldr-
peb. shore;
sandy MITZ
LITZ
rocky, low
relief rocks.
IDAHO Δ
mod - steep ∠.
boulders over
bedrock; mod.
exposed;
no oil.
8/16/89 a.m.
G. MACDONALD
NA-27
Map 3 of 5
mod ∠, sandy - gvl -
peb. beach,
seeps.
0 1,000 2,000 FT
1 : 12,000
exposed rocky
shore; boulder veneer
in places.
no oil
FANNY Δ
bldr veneer
over bedrock
mod ∠, angular
cob beach.
no oil
NO OIL
seep.
bldr - cob
beach
angular blocky bldrs
over steep outcrop.
well-round, bldr - cob
pocket
gull colony
approx. 75
low relief (≤ 3m) rocky shore w/ steep
v. exposed.
rockslide,
bldr-cob
pockets.
Eagle nest
BULL KELP BED
10.45 HRS
CONT'D.

8/16/89

G. MACDONALD

NA-27

Map 4 of 5

N

0 1,000 2,000 3,000 FT

1 : 12,000

11.05 HRS

CONT'D.

60 ↓

REGIONAL GRAIN of ROCK

vert.- overhanging outcrop w/ occas. blkrs. veneer

v. exposed, low relief rocky shore; mod ∠, well rounded blkr-cob. pockets - on bedrock; easily eroded, steeply dipping sediments;

south coast riddled w/ submerged rocks;

pocket beaches w/ well rounded cobs & blkrs.

steep - blkr - cob pockets

Eagle nest

Harbour seal haulout

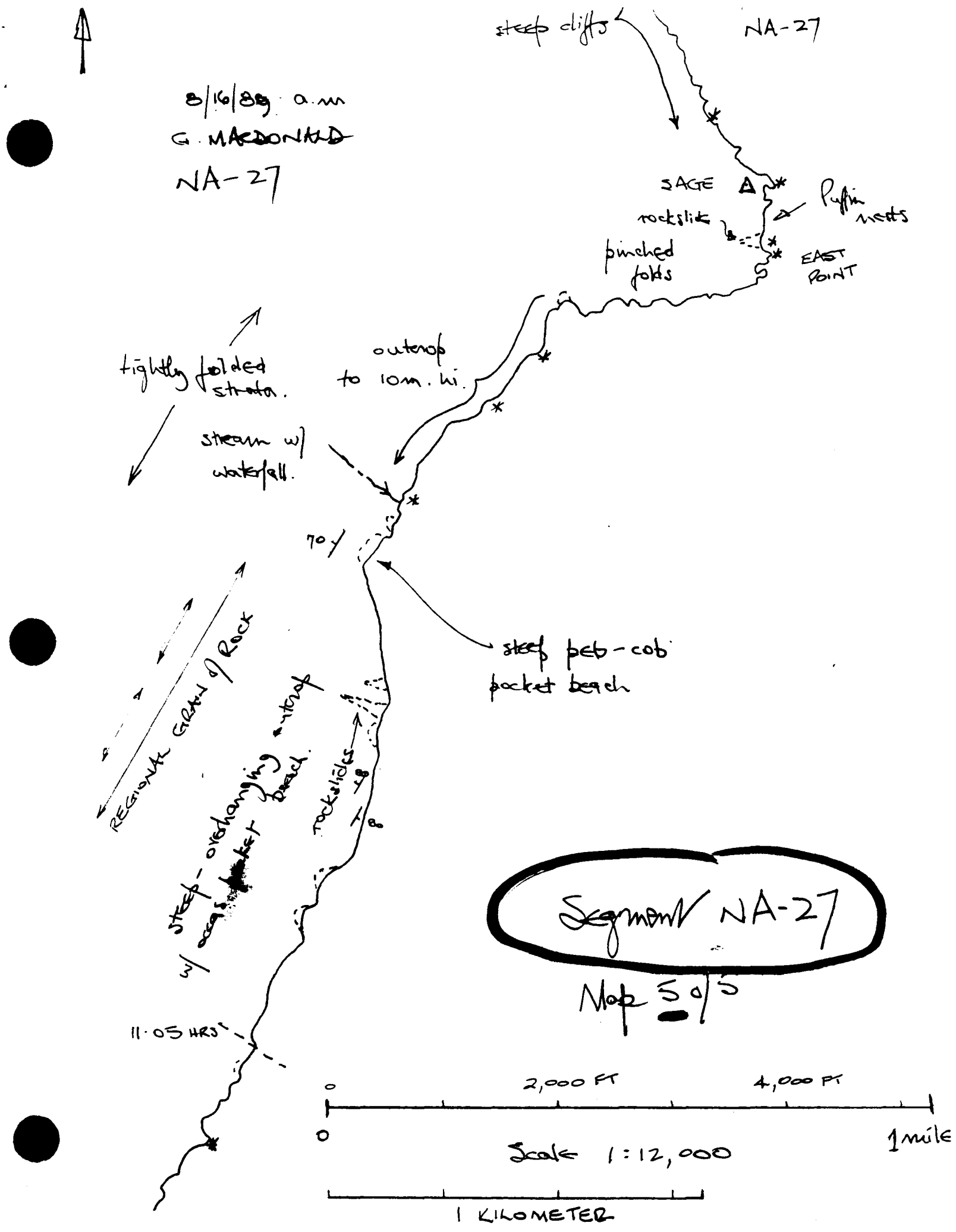
10.45 HRS.

NAKED No. 2

BULL KELP BED.

Kittiwake roost - approx. 50

BULLKELP BED


steep cliffs
NA-27
8/16/89 a.m
G. MACDONALD
NA-27
SAGE
Puffin nests
rockslide
pinched folds
EAST POINT
tightly folded strata.
outcrop to 10m. hi.
stream w/ waterfall.
70°
steep peb-cob pocket beach
REGIONAL GRAIN of Rock
steep-overhanging outcrop w/ sea pocket beach
rockslides
Segment NA-27
Map 5 of 5
11.05 HRS
0
2,000 FT
4,000 FT
0
1 mile
Scale 1:12,000
1 KILOMETER

ECOLOGICAL EVALUATION

LOCATION: Prince William Sound **SITE:** S. + E. Naked Island -Bass Harbor **OBSERVER:** S. Dearn

LOCATION PREFIX: _____ **SEG. NO.:** NA-27 **LENGTH:** 22,000 (M)

DATE: 08 / 16 / 89 **TIME (HHMM):** 0850-1130 **TIDE HT.:** 0.0 - 7.0 ft.

OILED ZONE: Splash (High) Medium Low

SUBSTRATUM: (Rocks) (Boulder) (Cobble) (Gravel) (Sand) (Mud)

LIVE BIOTA

Fucus (algae): Patchy (Y)/N Contin. (Y)/N Dense (Y)/N Sparse (Y)/N None Y/N
Dense, continuous band on most vertical rock walls, large boulders + cobbles. Young plants 1-2 present also. Decreased # Fucus plants on cobble beaches, + in calm end of Bass Harbor.

Mytilus (Mussels): Patchy (Y)/N Contin. Y/N Dense (Y)/N Sparse Y/N None Y/N
Interspersed throughout Fucus Zone. ↑ #'s towards calm back bay area of Bass Harbor.

Balanus (Barnacles): Patchy Y/N Contin. (Y)/N Dense (Y)/N Sparse Y/N None Y/N
A narrow, continuous band relatively dense.

Littorina
Patchy Y/N Contin. (Y)/N Dense Y/N Sparse (Y)/N None Y/N.
Scattered throughout intertidal region. Nucella present. Large Littorina individuals near back bay area of Bass Harbor.

Limpets: Patchy (Y)/N Contin. (Y)/N Dense (Y)/N Sparse (Y)/N None Y/N
All sizes present — very small individuals on bare rocks, large individuals under Fucus

OTHER OBSERVATIONS: Sporadic kelp bed (Nereocystis) along outer coastline. Zostera beds nearshore + inside Bass Harbor. Black-legged kittiwakes + Glaucous-winged gull colonies +/or roosts present. Harbor-seal haulout locale also present. 2 eagle nests observed. Many tufted + horned puffins w/ nests present.

CLEANUP PRECAUTIONS: Too many ecologically sensitive areas + insufficient amounts of oil do not justify clean up + snosequent disturbance to environment.

MAMMALS: Otters 4 offshore **Harbor Seals** 3 Hauled out. **Sea Lions** 6 Stellar **Whales** _____
Other _____

BIRDS: Many (>100) Tufted + Horned Puffins - nesting, >100 indiv. Kittiwake + Glaucous-winged Gull roosts + colonies, Red-face cormorants - 2, 3 Peregrine falcons (possibly 2 adults + 1 young) flying over, Sandpipers - 2, pelagic cormorants - 2, Oyster Catchers - 6, 1 Belted Kingfisher, 3 eagles + 2 bald eagle nests

GENERAL OBSERVATIONS:
Distinct vertical intertidal zonation exists on rocks of outer coastline. Inside Bass Harbor typ of more calm environments. Small tidal lagoon adds to the diversity present w/in this segment. Many ecologically sensitive areas are present.

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 8-16-89 Location NAKED IS. Site

Location Prefix NA Segment # NA-27 Length 22,000 m

Survey Method:

Air (A - indicate on map) Boat ✓ (A - indicate on ma

Ground ✓ (G - indicate on map)

Known cultural resources (AHRS #) None Data Source AHRS

Oil conditions/beach visibility No oil, excellent visibility

Width of beach zone surveyed 10 m Tree fringe surveyed 2 m

Cultural resources observed in beach zone (AHRS code) SHP, HT1

Cultural resources observed in tree fringe (AHRS code) None

General observations justifying survey method and segment's site probability

Shore Profile Vertical Rock wall to mod to low angle cobble beach

Fresh Water Sources Streams

Sea Exposure high to moderate energy

Access/Safety good to poor, safe to hazardous.

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

Monitoring during cleanup needed yes/no Collection yes/no

Photos: Color Roll # — Frames —

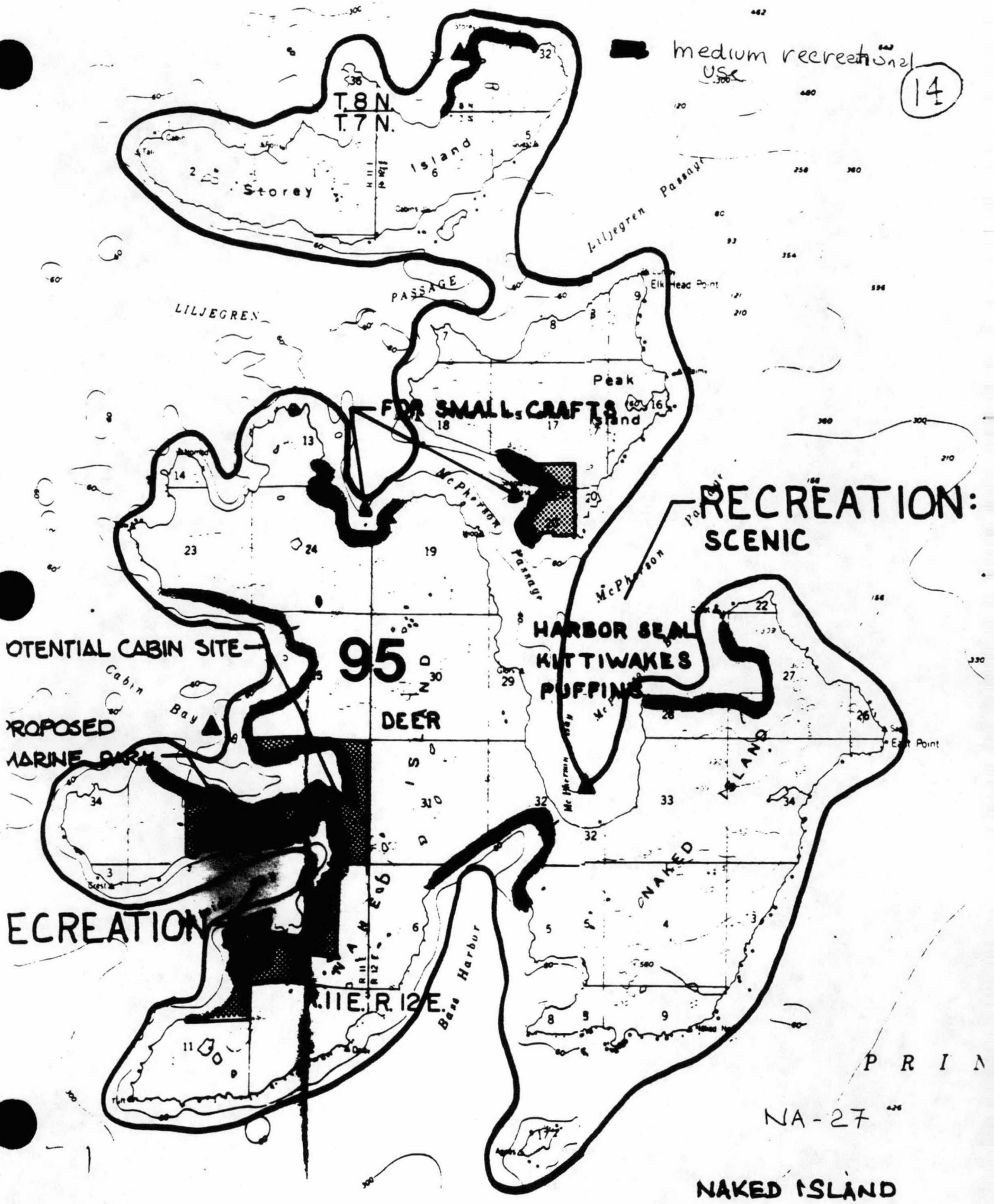
B/W Roll # Dep #14 Frames 11-14

Observer(s) R.G. Phippen

Time survey started 0745 Time survey ended 1145

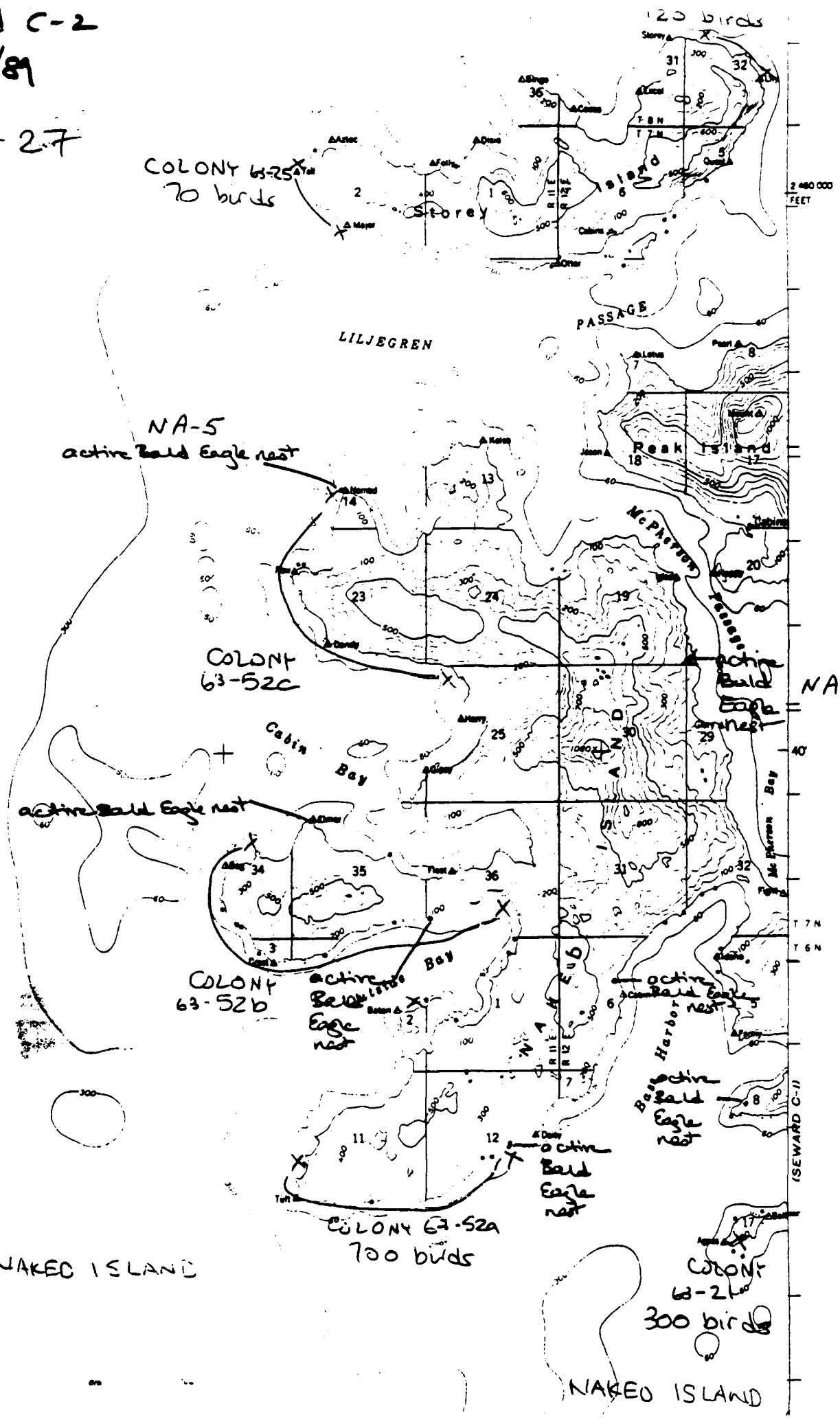
Cultural resource considerations/restraints:

Standard Constraints


medium recreational use
14
T.8 N.
T.7 N.
Storey
Island
Liljegren Passage
LILJEGREN
PASSAGE
Elk Head Point
Peak
Island
FOR SMALL CRAFTS
McPherson Passage
RECREATION:
SCENIC
McPherson
HARBOR SEAL
KITTIWAKES
PUFFINS
95
DEER
POTENTIAL CABIN SITE
Cabin Bay
PROPOSED
MARINE PARK
East Point
NAKED ISLAND
RECREATION
R.11E. R.12E.
Bear Harbor
PRIN
NA-27
NAKED ISLAND

Seward C-2
5/28/89

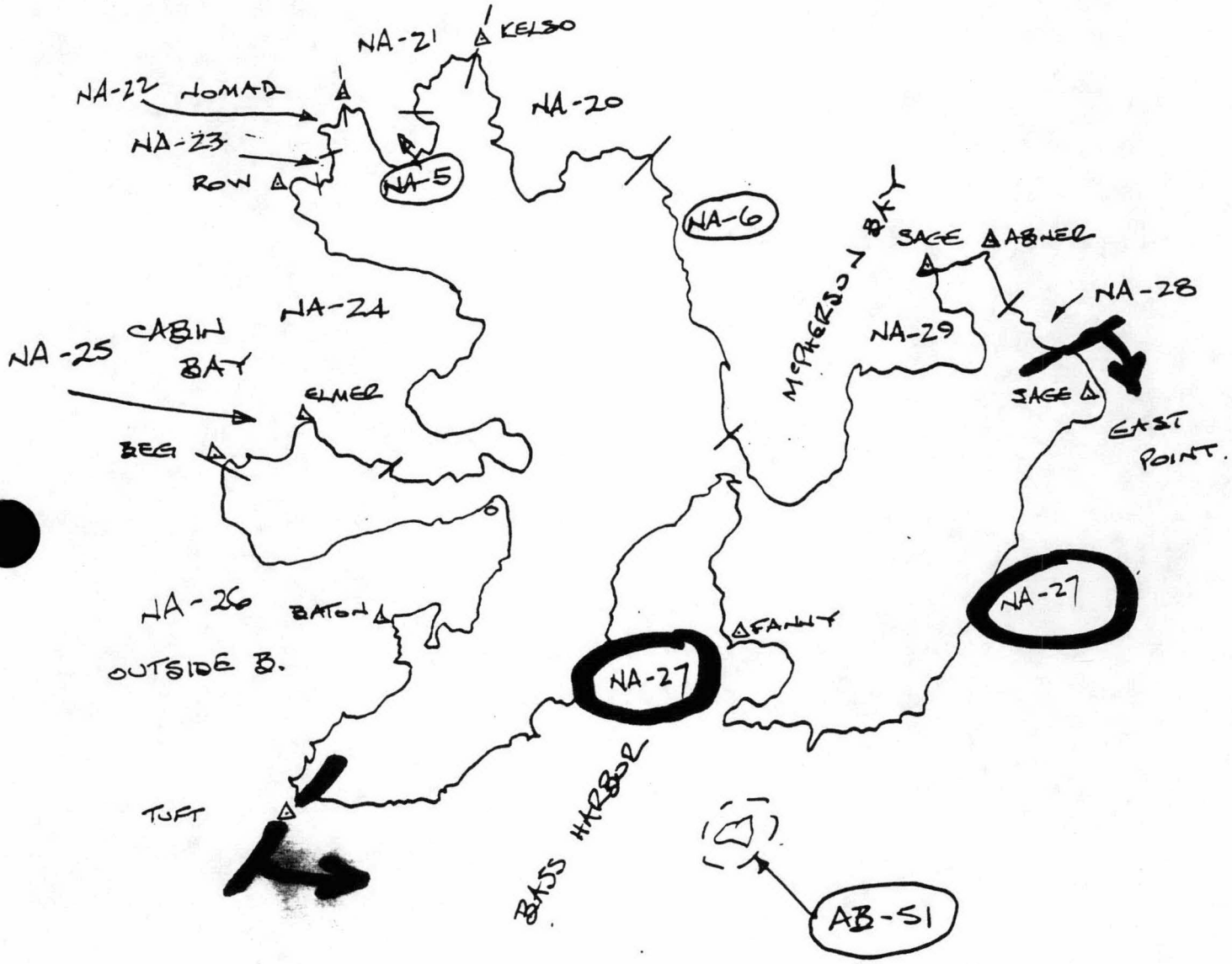
NA-27



SCALE 1:80,000 (1" = 1.26 MILES)

REFERENCE MAP.

All segments except for NA-5, 6 & AB-51 were scoped, as per TEAM 1 (Briska) task list @ 8/10/89.



G. MACDONALD. AUG '89.

Agnes Island (Bass)

SEG AB-5 INSPECTION # 1

DATE 9/8/89

ISLAND OFF BASS HARBOR NAKED ISLAND

SEGMENT INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment

- [ ] Hot water wash
- [ ] Warm water wash
- [ ] Water deluge
- [x] Mechanical HAND WIPING
- [ ] Non-mechanical
- [ ] Other

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments TREATMENT OF THIS SEGMENT AB-5 IS COMPLETED & READY FOR DEMOBILIZATION TO ANOTHER SEGMENT

Signature [signature] Date: 9/8/89 Time: 1400

Printed Name BRUCE WILLIAMS

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil Percent	Degree of Oiling
Ø	Heavy
Ø	Medium
5	Light
0	Very Light
95	None
100 %	

Subsurface Oil
- [ ] Yes
- [x] No

COMMENT BELOW

Reassessment
- [x] Yes - necessary
- [ ] No - not necessary unless re-oiled

Existing Shoreline Condition As Visually Determined by ADEC

Surface Oil Percent	Degree of Oiling
0	Heavy
0	Medium
10	Light
0	Very Light
90	None
100 %	

Subsurface Oil
- [ ] Yes
- [ ] No

COMMENT BELOW

Reassessment
- [x] Yes - necessary
- [ ] No - not necessary unless re-oiled

ADEC rep

Comments No significant oiling

Signature [signature] Date: 9/8/89 Time: 15:00

Printed Name DALE GARDNER

FOSC rep Demobilization approved/disapproved

Comments NO GROSS CONTAMINATION

Signature [signature] Date: 9/8/89 Time: 1500

Printed Name PAUL FOREY CAMOR

COPY: EXXON ADEC FOSC ISCC

ISCC 8/28/89
Bird colony being used for damage assessment by FWS.
Birds probably have fledged; see telephone conversation 8/28/89

(version 8/04/89)

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Location (see enclosed map): NAKED ISLAND EAST BLOCK

Includes Shoreline Segments: NA-28

Submitted : Scott A. Naman (for Exxon) Date: 8/23/89

ISCC Recommendation: Sharon K. Christopherson Date: 8/28/89

FOSC Approval: David Randolph Date: 8/28/89

The cleanup procedures identified in the Shoreline Cleanup Program are recommended. Modifications to these systems can be made in the field. Exxon and other field personnel are encouraged to suggest innovations and productivity enhancements to the OSC's on-scene representative. The OSC's representative has the authority to approve on-site modifications. The Field Resource Team should be consulted if these actions do not fit within the Ecological Constraints of the Shoreline Cleanup Program. Requirements for safety and the protection of cultural material must be observed.

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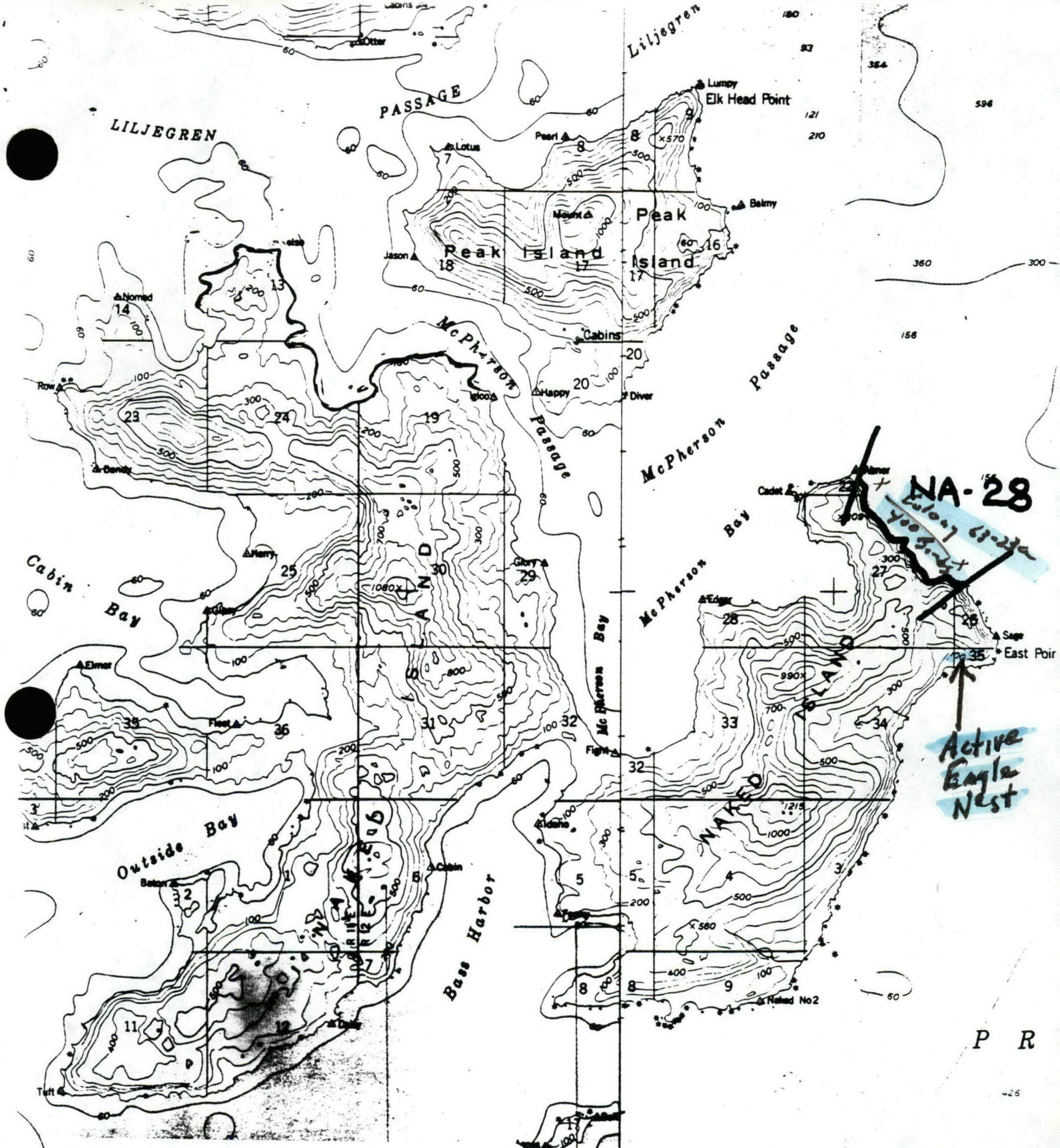
Exxon Shoreline Supervisor
Exxon SCAT file

SHPO
FOSC
CDFU
NOAA
EPA
USDA (FS)
USFW
A.DEC
A.FG
A.DNR
CAC
PWSCA
USFS

DEC upset about "graffiti" on rocks; asked Exxon to remove. Exxon stated that they remove as they are able.



NAKED ISLAND
EAST BLOCK
NA-28

9/1/89
2 Eagle Nests on either side of segment failed. An Active nest is located South of East Point

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 8/23/89 SHORELINE SEGMENT NA-28

LOCATION: (see enclosed map) NAKED ISLAND-NORTHEAST SHORE

(NAKED ISLAND EAST BLOCK)

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 8/16/89

Recommended Cleanup Activity(ies):

SC 8/28/89 DOT 8.28.89 -Use bioremediation if possible. Beach 1+2. Physically remove as much of the mobile oil as possible prior to bioremediation

-Manually remove contaminated drift material and patches of mousse.

-No other cleanup recommended at this time due to very high wave exposure.

SC 8/28/89 DOT 8.28.89 IF POSSIBLE, REMOVE ~~GRAFFITI~~ GRAFFITI NOTED IN COMMENTS.

Priorities Considerations:
Class 2: Heavy oil
A: Resources present

Ecological Constraints (from site survey):
Work at mid tide + or take appropriate measures to protect lower intertidal zone. NOTE PRESENCE OF SEABIRD COLONY. NESTING MAY OCCUR CLOSE TO WATER'S EDGE. SEE ADVISORY. IN MANUAL

SC [illegible]/89 DOT 8.28.89

Archeological Constraints (from site survey):
If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon's Archeological Field Director and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

Robert Burnell — Date: 8/24/89
State Historic Preservation Officer *

ISCC: Sharon K. Christopherson — Date: 8/28/89

EXXON: Daniel D. Tapp — Date: 8.28.89

FOSC: David Grunfeld — Date: 8/28/89

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

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE_____ SHORELINE SEGMENT NA-28

LOCATION: (see enclosed map) N.E. Naked Island — (includes V segment NA-04) and replaces

ADEC NO._____ SHORELINE ASSESSMENT DATE: 8/16/89

Recommended Cleanup Activity(ies):

① No treatment — the locations ① & ② will self-clean within a year's storm cycle. - currently self-cleaning.

OR

② Location ① would be a suitable test site for a decontamination agent, similar to that used on Little Smith Island.

Priorities Considerations:

Type 2 - Heavily oiled.

class B - no resources present, but some areas are ecologically sensitive.

Ecological Constraints (from site survey):

No cleanup is recommended due to the apparent self-cleaning action of beac within this segment.

However - if recommended cleanup option #2 is used, clean only at tides greater than +6.0ft and maintain at least 300ft distance from shore nea nesting puffins. See map.

Archeological Constraints (from site survey):

If heretofore undiscovered cultural materials are uncovered during cleanup, contact Exxon's Archeological Field Director and take actions prescribed in the Operational Guidelines for Shoreline Cleanup dated 4/21/89 as amended.

_____ Date:_____

State Historic Preservation Officer *

EXXON:_____ Date:_____

FOSC:_____ Date:_____

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

SHORELINE OIL EVALUATION

Date: 8/16/89 Time: 11:30 Observer: GRAHAM MACDONALD

Surveyed From: (Foot) (Boat) Helio/Plane Weather: (Sun) (Cloud) Rain/Snow/Fog

LOCATION

LOCATION NE. Naked Island SEGMENT NUMBER NA-28

LENGTH OF SHORELINE SEGMENT: 1,300 m

ACCESS: Foot/Vehicle (Boat) (Barge) Helio/Float Plane

SHORELINE:

Shoreline Type: SPI/BEA/COV/HLD (STRT) Slope: LANG (HANG/VER) (OVERHANG)

Wave Exposure: (VERY High) Med/Low

Sediment: B 15 % / C 10 % / P 5 % / G Trace % / S ___ % / M ___ % / R 70 %

Drift Debris on Beach: (Yes) No (Supra) Upper/Mid/Lower Type logs

OIL

Degree of Oiling: (Heavy) Moderate/Light/No Oil/Unobserved

Area of Beach Impact: (SU / SP / H) / M / L

Continuous: (Y) N % of Segment ≤10 Width of Band: avg. 12 m

Sporadic: (Y) N % of Segment < 2 - band around boulders.

Est. Oil Thickness where > 1cm: ___ cm Est. Oil Penetration: > 40 cm

Pooled Oil: ___ % "Free" Oil: 20 % Coated: H ___ % / M ___ % / L 80 %

Fresh ___ % Mousse 20 % Tar Formation: 80 %

Drift Debris Oiled ? (Yes) No (Supra) Upper/Mid/Lower Amount: H/M (L)

Comments:

Vertical - hi-angle cliff of heavily oiled cob-peb-bldr beach as veneer on heavily scoured bedrock. Small streams flushing mousse light fraction to create light sheen here. Very high wave energy here; the beach will self-clean.

[Includes segment NA-04]

Site ① has had an unknown amount of treatment already — foot traffic marks, gloves, graffiti, sorbent pads, camp fire

Map/Aerial photo marking segment boundaries plus sketch detail attached

VTR: Y/N Tape Number(s) TIG1, #19 - 23

Photography: Y/N Roll Number(s)

Sample Numbers Collected: NONE.

#19 boulder w/ scalloped by cobble abrasion.

#20 west side of location 1

#21 " " " " " , view west.

#22 view east, location 1

#23 " west, entire location 1.

8/16/89 Segment NA-28
11.30 HRS.

Steep cliffs to 60m high; pinched folds; trace [redacted] band @ SP, <10 cms wide.; v. exposed, NE aspect.

steep peb-cob-bldr pocket beach, with rounded cobs; heavily scoured & worn bedrock.

LOCATION ①

2 zones of oily

① @ west end. 4m x 30m x 30cm tar stained & coated peb's & cob's, w/ stained logs @ Supra 2. berming up now.

photo # 20; #21 view W.

②

15m x 130m x 50cm

mousse & tar coated beach @ HTL → Supra;

flushed by stream → shown sketch map.

photo # 24 - general view

mod. strong petroleum odour here.

#19 faceted boulder
#22 view to E
#23 complete view west!

This includes segment NA-04!

At present, the beach is self cleaning by :-

(i) abrasion, agitation & wave action
(ii) flushing, flooding of east end of beach by water table & small stream.

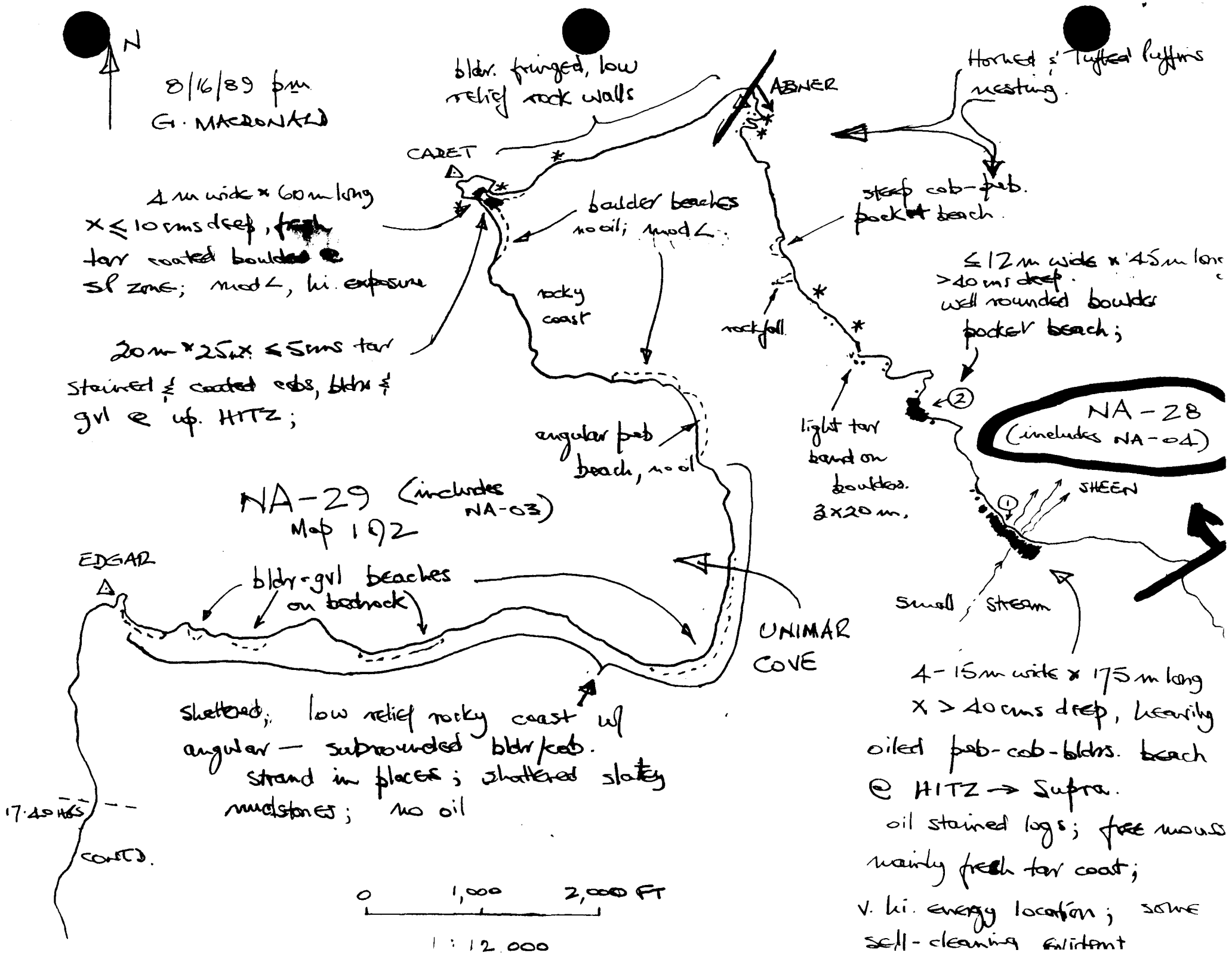
photo #24 - general view.

LOCATION ② small bldr-cob pocket; 12m x 45m tar stained & coated, currently self cleaning.

12.45 HRS

END of SEGMENT

② re-checked @ 16.30 HRS - logs in prominent berm not oiled.

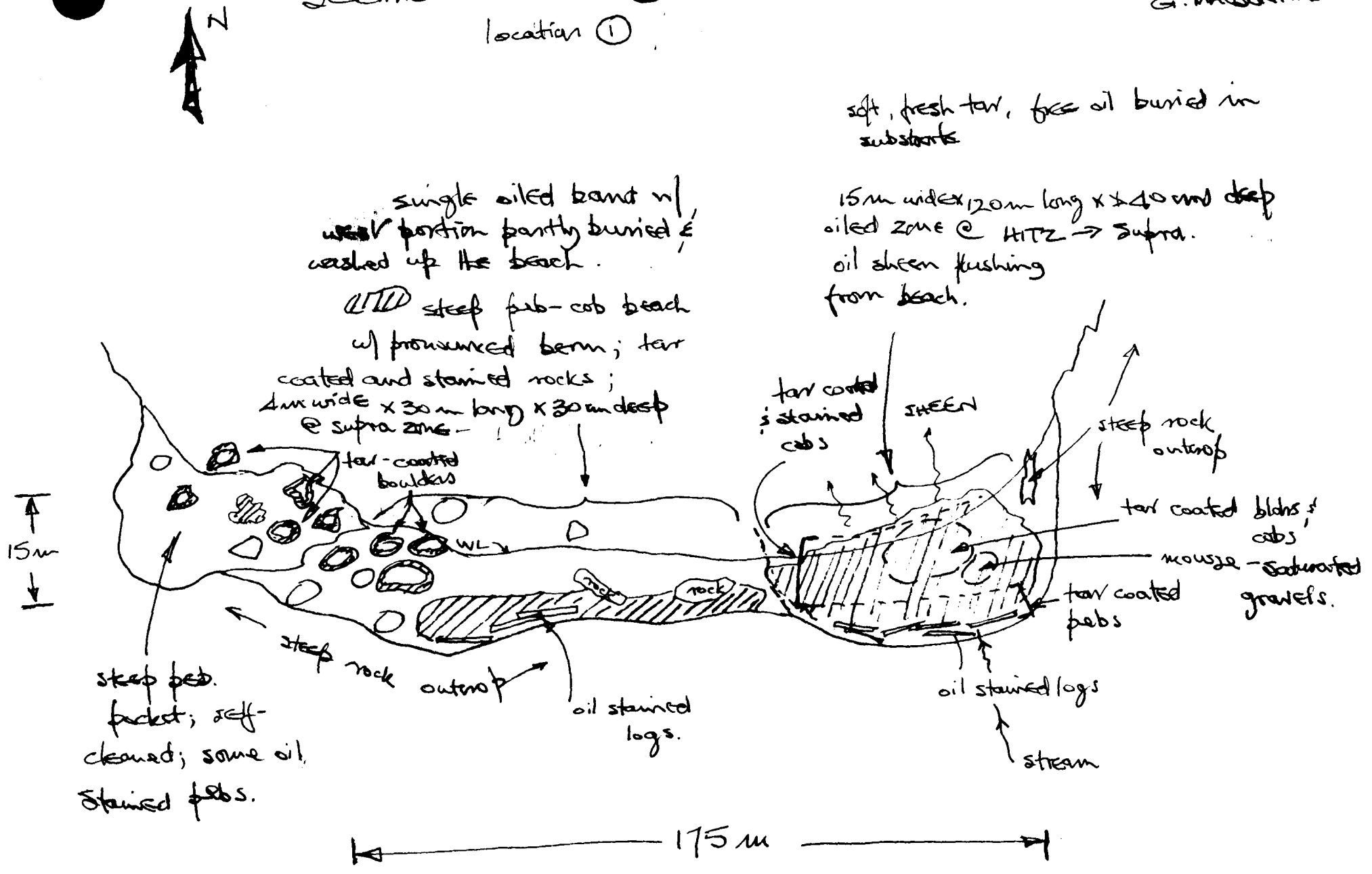

N
8/16/89 pm
G. MACDONALD
bldr. fringed, low relief rock walls
ABNER
Horned & Tufted Puffins nesting.
CADET
4 m wide x 60 m long
x ≤ 10 cms deep, fresh tar coated boulders @ sl zone; mod ∠, hi. exposure
boulder beaches no oil; mod ∠
steep cob-peb. pocket beach.
≤ 12 m wide x 45 m long
> 40 cms deep.
well rounded boulder pocket beach;
rocky coast
rockfall
20 m x 25 m x ≤ 5 cms tar stained & coated cobs, bldrs & gvl @ up. HITZ;
angular peb beach, no oil
light tar band on boulders. 3 x 20 m.
NA-28 (includes NA-04)
SHEEN
NA-29 (includes NA-03)
Map 192
EDGAR
bldr-gvl beaches on bedrock
UNIMAR COVE
small stream
4-15 m wide x 175 m long
x > 40 cms deep, heavily oiled peb-cob-bldrs. beach @ HITZ → Supra.
oil stained logs; free moves
mainly fresh tar coat;
v. hi. energy location; some self-cleaning evident
sheltered; low relief rocky coast w/ angular — subrounded bldr/cob. strand in places; shattered slaty mudstones; no oil
17.40 HGS
CONTD.
0 1,000 2,000 FT
1 : 12,000

SEGMENT: NA-[redacted]

location ①

8/16/[redacted] m.

G. MACDONALD



ECOLOGICAL EVALUATION

LOCATION: Prince William Sound SITE: E. Naked Island OBSERVER: S. Dearn

LOCATION PREFIX: _____ SEG. NO.: NA-28 LENGTH: 1,300 (M)

DATE: 08/16/89 TIME (HHMM): 1113 - 1245 TIDE HT.: 7.0 - 10 ft
Segment checked @ 1700 hrs - tide = 6.5 ft.

OILED ZONE: Splash High Medium Low

SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud

LIVE BIOTA

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

Very little Fucus present - not abundant on cobble/boulder beach. Present ~~in dense clumps~~ only dense accounts on larger boulders + rocky outcroppings. Present in scattered clumps across lower part of beach area.

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

Densely clustered on a few larger boulders. Not present across cobble beach area. Present on some vertical rock walls.

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

Scattered on sides + tops of larger boulders. Present on sides of some vertical rock walls (d

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

Scattered across intertidal zone, predominantly in barnacle zone.

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

Few limpets present.

OTHER OBSERVATIONS: Drift Seagrass (Zostera) + Kelp (Laminaria + Dictyoneurum) rolled up in wrack. Steep cliffs w/ vegetation on them back down onto pocket beaches. Cobbles located ~10cm below surface are oiled. Larger boulders also have an oil ring on the sides approx. 10cm down when sediment is dug away.

CLEANUP PRECAUTIONS: High energy wave exposure will tumble sediment - i.e. cobbles + boulders on beach. This should be a self-clearing action. Nesting horned puffins are present within segment - this areas should be avoided if any clean up activity occurs. SEE MAP.

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

BIRDS: 1 bald eagle, 4 - oyster catchers, nesting tufted and horned puffins.

GENERAL OBSERVATIONS: Beaches in this segment experience very high wave exposure - ons

Sediment transport occurs - as evidenced by burial of oiled cobbles. This scouring activity greatly reduces species diversity + organism abundances within the segment.

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 8-16-89 Location NAKED IS Site

Location Prefix NA Segment # NA-28 Length 1500m

Survey Method:

Air (A - indicate on map) Boat ✓ (A - indicate on ma

Ground ✓ (G - indicate on map)

Known cultural resources (AHRS #) None Data Source AHRS F

Oil conditions/beach visibility Heavy to moderate, fair to good.

Width of beach zone surveyed 15 m Tree fringe surveyed Ou

Cultural resources observed in beach zone (AHRS code) None

Cultural resources observed in tree fringe (AHRS code) None

General observations justifying survey method and segment's site probability

Shore Profile Steep rock walls, blocky boulder/cobble

Fresh Water Sources seeps, streams.

Sea Exposure high energy

Access/Safety poor to moderate, hazardous to mod. safe

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

Monitoring during cleanup needed yes/no Collection yes/no

Photos: Color Roll # — Frames —

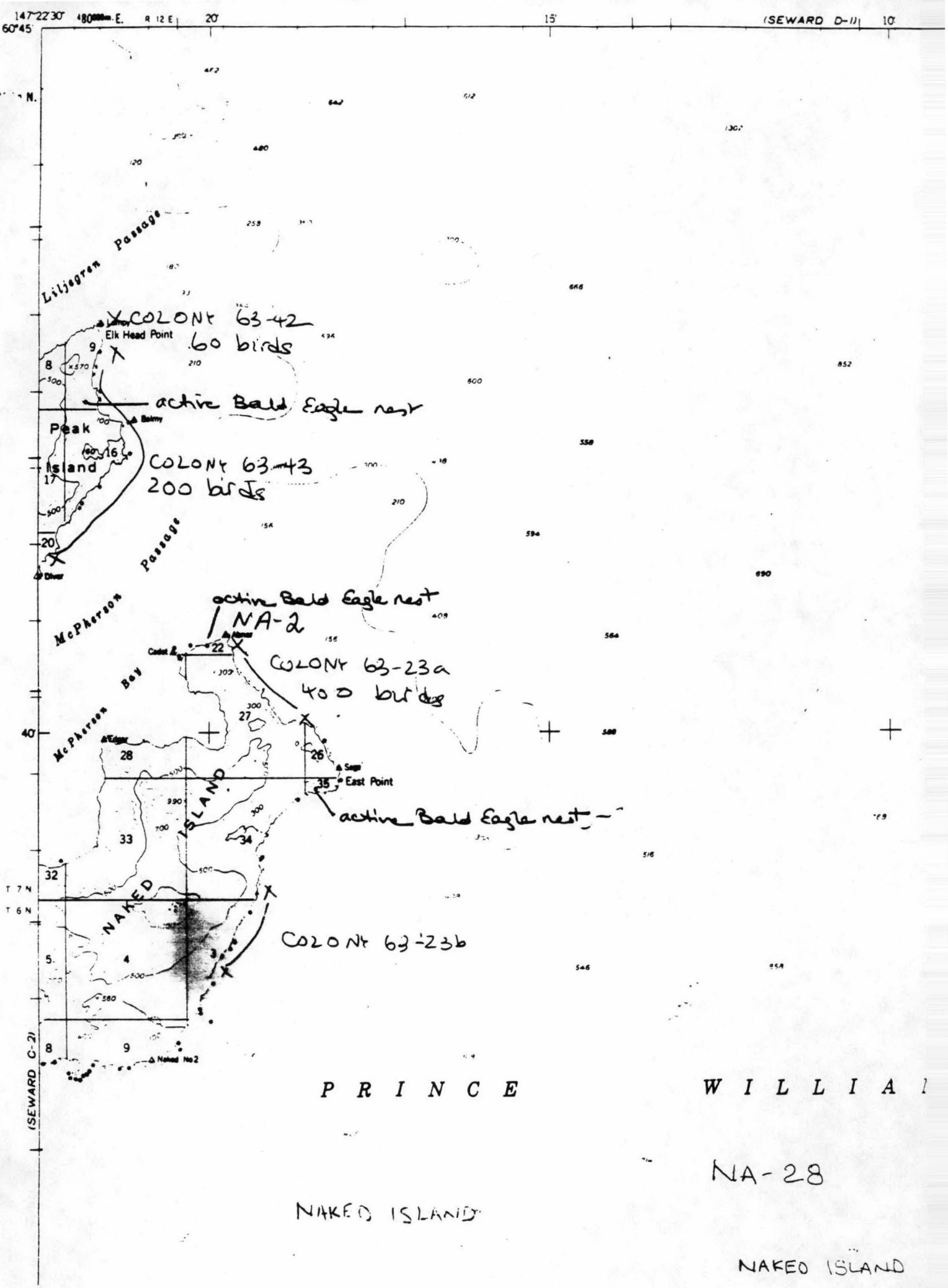
B/W Roll # — Frames —

Observer(s) Ph Dopen

Time survey started 1150 Time survey ended 1240

Cultural resource considerations/restraints:

Standard Constraints



NA-28

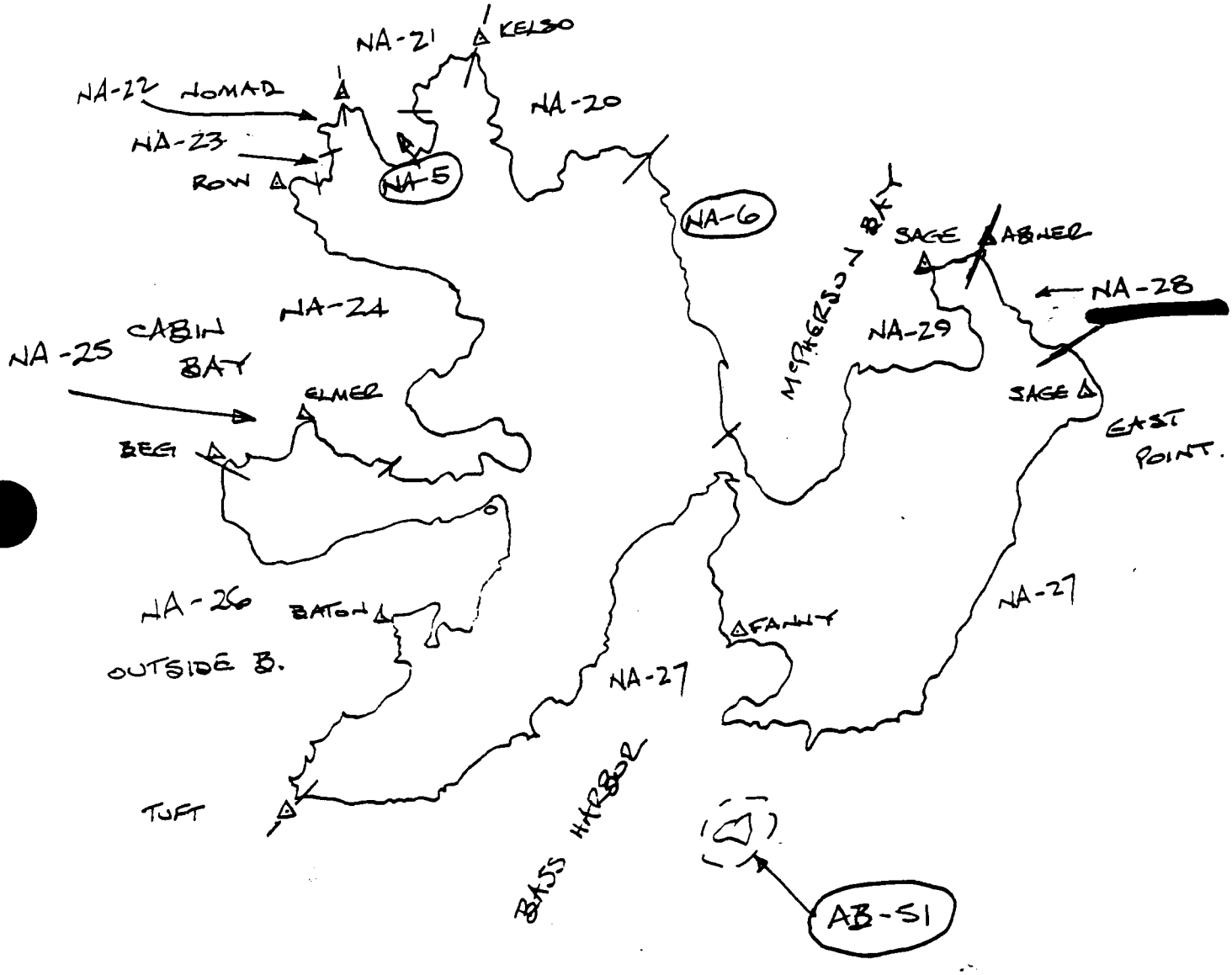
NAKED ISLAND

NAKED ISLAND

Scale 1:80,000 (1" = 1.26 miles)

REFERENCE MAP.

All segments except for NA-5, 6 & AB-51 were scoted, as per TEAM 1 (Briska) task list of 8/10/89.



G. MACDONALD. AUG '89

SEG NA-28 INSPECTION # 1

DATE 9/8/89

SEGMENT INSPECTION RECORD

Shoreline Treatment Process(es) Completed for this Segment

- ☐ Hot water wash
- ☐ Warm water wash
- ☐ Water deluge
- ☒ Mechanical HAND WIPING
- ☐ Non-mechanical
- ☐ Other

Exxon

Treatment as indicated above has been completed. Request demobilization from this segment.

Comments TREATMENT OF SEGMENT NA-28 IS COMPLETE AND READY FOR DEMOBILIZATION TO A NEW SEGMENT

Signature [illegible] Date: 9/8/89 Time: 1310

Printed Name BRUCE E. WILLIAMS

Existing Shoreline Condition As Visually Determined by USCG

Surface Oil

Percent	Degree of Oiling
21	Heavy
10	Medium
15	Light
0	Very Light
74	None
100 %	

Subsurface Oil

☑ Yes ☐ No

COMMENT BELOW

Reassessment

☑ Yes - necessary

☐ No - not necessary unless re-oiled

Existing Shoreline Condition As Visually Determined by ADEC

Surface Oil

Percent	Degree of Oiling
1	Heavy
15	Medium
19	Light
0	Very Light
65	None
100 %	

Subsurface Oil

☑ Yes ☐ No

COMMENT BELOW

Reassessment

☑ Yes - necessary

☐ No - not necessary unless re-oiled

ADEC rep

Comments Pockets of heavy/medium oil remain. Most of it is very tacky/tarry and would not respond well to treatment as it would probably be too

Signature [illegible] Date: 9/8/89 Time: 13:25

Printed Name DALE GARDNER

FOSC rep Demobilization approved/disapproved

Comments [illegible]

Signature [illegible] Date: 9/8/89 Time: 1315

Printed Name [illegible]

COPY: EXXON ADEC FOSC ISCC

(version 5/13/89)

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Location (see enclosed map): STOREY ISLAND - NORTH

Includes Shoreline Segments: ST-1

Submitted : A.R. McCadam (for Exxon) Date: 5-19-89

FOSC Approval: C.E. Pulling Date: 5-21-89

Shoreline Committee Representative 5/21/89

The cleanup procedures identified in the Shoreline Cleanup Program are recommended. Modifications to these systems can be made in the field. Exxon and other field personnel are encouraged to suggest innovations and productivity enhancements to the OSC's on-scene representative. The OSC's representative has the authority to approve on-site modifications. The Field Resource Team should be consulted if these actions do not fit within the Ecological Constraints of the Shoreline Cleanup Program. Requirements for safety and the protection of cultural material must be observed.

Distribution:

Exxon Shoreline Coordinator
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CAC
PWSCA
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SHPO

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE May 18, 1989 SHORELINE SEGMENT ST-1

LOCATION: (see enclosed map) North shore of STOREY ISLAND.

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 5/15/89

Recommended Cleanup Activity(ies):
No cleanup recommended. Area is not oiled.

Priorities Considerations:

Ecological Constraints (from site survey):
No constraints recommended because no cleanup is recommended. If cleanup activities are planned, constraints should be reconsidered.

Archeological Constraints (from site survey):
If cleanup activities are planned, constraints should be reconsidered.

Charles B Holmes
State Historic Preservation Officer * Date: May 18, 1989

EXXON: _____ Date: _____

FOSC: _____ Date: _____

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

SHORELINE OIL EVALUATION

Date: 05/15/89 / Time: 1615 Observer: MEYER

Surveyed From: Foot/Boat/Helio/Plane Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION STOREY ISLAND SEGMENT NUMBER ST-1

LENGTH OF SHORELINE SEGMENT: 9400 m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE:

Shoreline Type: SPI/SEA/COV/HLD/STRT Slope: LANG/HANG/VER

Wave Exposure: High/Med/Low

Sediment: B 20 % / C 15 % / P 5 % / G 4 % / S 1 % / M Ø % /R 55 %

Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type LOGS

OIL

Degree of Oiling: Heavy/Moderate/Light/No Oil/Unobserved

Area of Beach Impact: SU / SP / H / M / L

Continuous: Y/N % of Segment_____ Width of Band: _____m

Sporadic: Y/N % of Segment_____

Est. Oil Thickness where > 1cm:_____cm Est. Oil Penetration: _____cm

Pooled Oil: _____% "Free" Oil: _____% Coated: H____% /M____% /L____%

Fresh _____% Mousse _____% Tar Formation: _____%

Drift Debris Oiled ? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L/

Comments:

NO OIL IN SEGMENT - NO CLEANUP RECOMMENDED.

ECOLOGICAL EVALUATION

LOCATION: STOREY ISLAND SITE: ST-1 OBSERVER: MEYER

LOCATION PREFIX: ST SEG. NO.: 01 LENGTH: 9400 (M)

DATE: 05/15/89 TIME (HHMM): 1615 TIDE HT.: _____ (M)

OILED ZONE: Splash High Medium Low (NONE)

SUBSTRATUM: (Rocks) (Boulder) (Cobble) (Gravel) (Sand) Mud

LIVE BIOTA

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

NO OIL

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

NO OIL

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

NO OIL

Littorina
Patchy (Y)/N Contin. Y/N Dense (Y)/N Sparse Y/N None Y/N

NO OIL

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

NO OIL

OTHER OBSERVATIONS: FUCUS ABUNDANT AND HEALTHY - NO OIL IN SEGMENT. LITTORINA DENSE IN PATCHES, MUSSELS, BALANUS HEALTHY AND ABUNDANT

CLEANUP PRECAUTIONS: NO OIL → NO CLEANUP

MAMMALS: Otters 3 Harbor Seals 3 Sea Lions ____ Whales ____

Other

BIRDS: 8 surf scoters, 2 shovelers, 5 glaucous winged gulls PLUS group on spit ~ 80-100 glaucous winged gulls. 4 oystercatchers, 2 wandering tattlers, 6 pigeon guillemots, 2 eagles, 1 NW Crow, 4 mew gulls, 12 Harlequins

GENERAL OBSERVATIONS: _____

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 5/15/89 Location Starry Island site

Location Prefix ST Segment # ST-1 Length

Survey Method:

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

Ground ✓ (G - indicate on map)

Known cultural resources (AHRS #) None Data Source None

Oil conditions/beach visibility No oil present

Width of beach zone surveyed 0-5 m Tree fringe surveyed 0-10m

Cultural resources observed in beach zone (AHRS code) None

Cultural resources observed in tree fringe (AHRS code) None

General observations justifying survey method and segment's site probability:

Shore Profile moderately sloped, sandy w cobbled beaches

Fresh Water Sources None

Sea Exposure open to north

Access/Safety good

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

Monitoring during cleanup needed yes/(no) Collection yes/(no)

Photos: Color Roll # None Frames

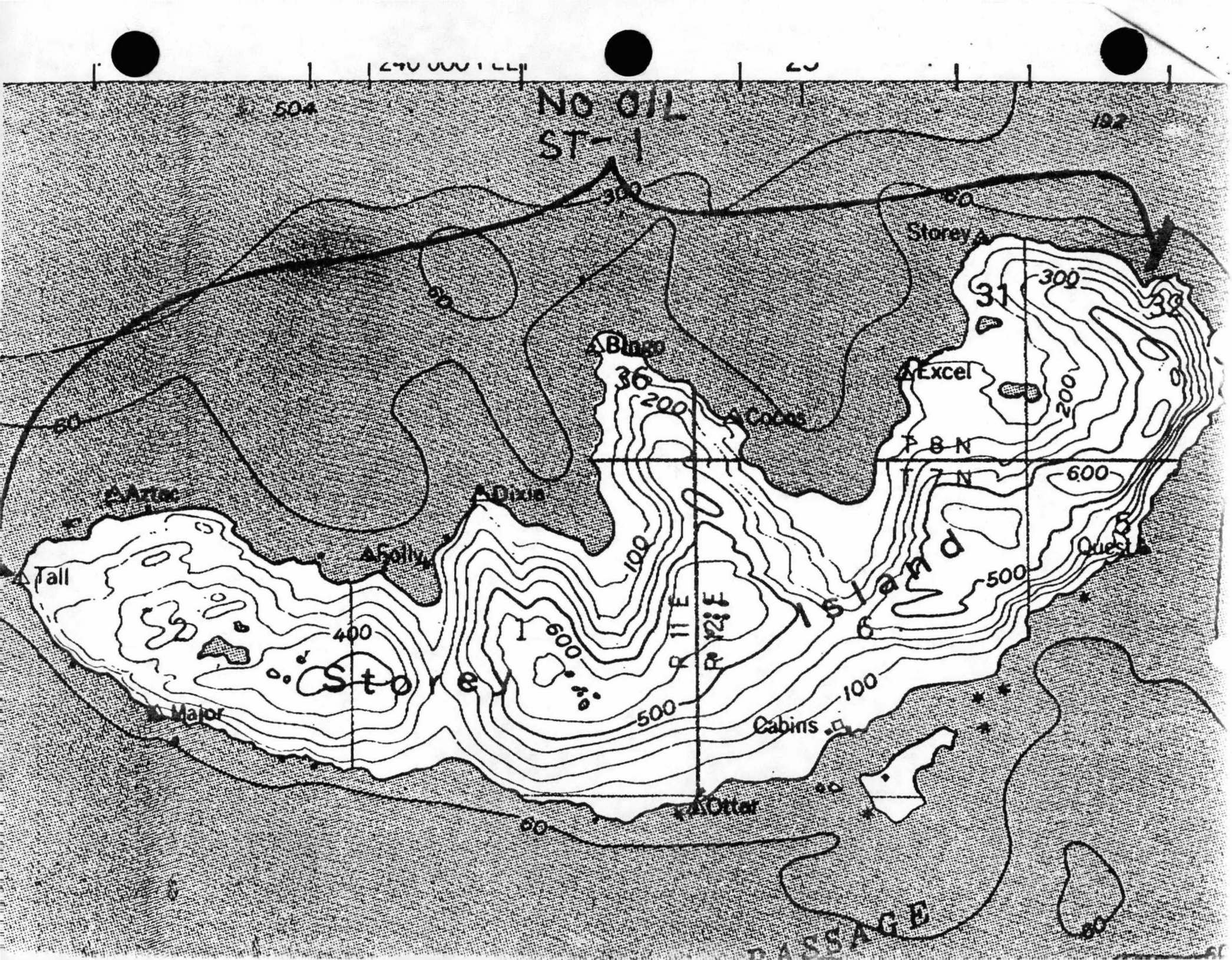
B/W Roll # Frames

Observer(s) C. Wilson

Time survey started 1615 Time survey ended 1900

Cultural resource considerations/restraints:

If heretofore undiscovered cultural resources are uncovered during cleanup contact Eppson archeologist, C. Wolfe, immediately


NO OIL
ST-1
Storey
Bingo
Excel
Cobbs
Aztec
Dixie
Folly
Tall
Major
Otter
Cabins
Quest
Island
Storey
PASSAGE
T 8 N
T 7 N
R 11 E
R 12 E
31
32
36
1
6
5
300
200
100
600
500
400
80

(version 8/04/89)

SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Location (see enclosed map): PEAK ISLAND BLOCK

Includes Shoreline Segments: PK-01

Submitted : [signature] Date: 8/23/89
(for Exxon)

ISCC Recommendation: Sharon K. Christopherson Date: 8/30/89

FOSC Approval: [signature] Date: 8/30/89

The cleanup procedures identified in the Shoreline Cleanup Program are recommended. Modifications to these systems can be made in the field. Exxon and other field personnel are encouraged to suggest innovations and productivity enhancements to the OSC's on-scene representative. The OSC's representative has the authority to approve on-site modifications. The Field Resource Team should be consulted if these actions do not fit within the Ecological Constraints of the Shoreline Cleanup Program. Requirements for safety and the protection of cultural material must be observed.

Distribution:

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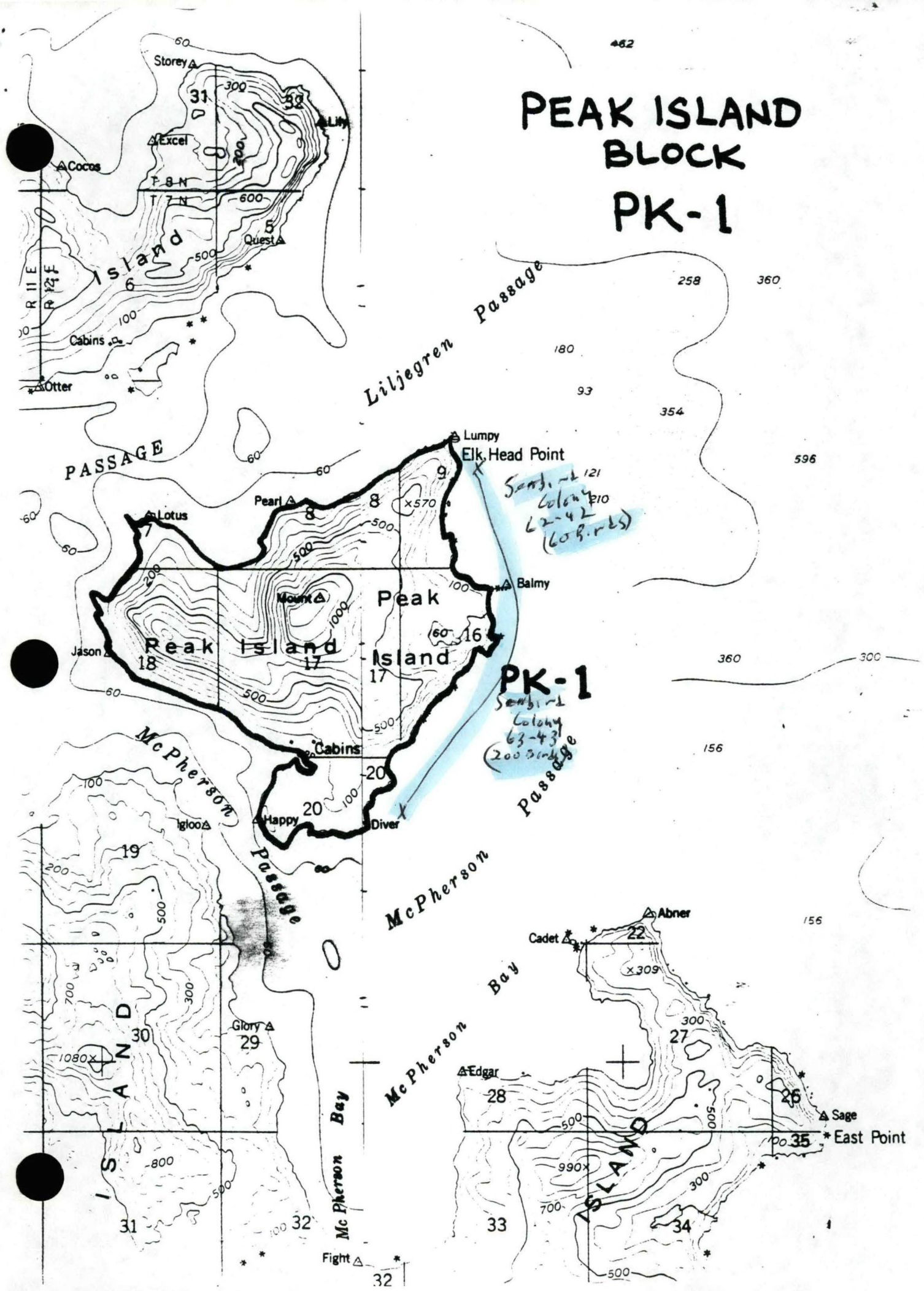
A.DNR
CAC
PWSCA
USFS

PEAK ISLAND BLOCK

PK-1



(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 8/23/89 SHORELINE SEGMENT PK-01

LOCATION: (see enclosed map) PEAK ISLAND-ENTIRE ISLAND

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 8/7/89

Recommended Cleanup Activity(ies):
No cleanup recommended at this time (subject to FOSC reassessment at a later date), due to no oil.

Priorities Considerations:
No oil
Medium recreational use

Ecological Constraints (from site survey):
None, since no oil was observed.

Archeological Constraints (from site survey):
If cleanup is conducted, a full archeological survey is required prior to cleanup.

State Historic Preservation Officer * Date: 8/24/89

ISCC: Sharon K. Christopherson Date: 8/30/89

EXXON: Daniel D. Tofft Date: 8.30.89

FOSC: C E Nelson Date: 8/30/89

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

SHORELINE OIL EVALUATION

Date: 8/7/89 Time: 09:30 Observer: G. MACDONALD

Surveyed From: Foot/Boat/Helio/Plane Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION Peak Island SEGMENT NUMBER PK-1

LENGTH OF SHORELINE SEGMENT: 13,200 m

ACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

SHORELINE:

BLDR.-COBBLE

Shoreline Type: SPI/BEA/COV/HLD/STRT Slope: LANG/HANG/VER

W, N & E aspects

Wave Exposure: High/Med/Low ← S aspect.

Sediment: B 20 % / C 10 % / P 5 % / G 5 % / S ___ % / M ___ % / R 65 %

Drift Debris on Beach: Yes/No Supra/Upper/Mid/Lower Type logs

OIL

Degree of Oiling: Heavy/Moderate/Light/No Oil/Unobserved (TRACE)

Area of Beach Impact: SU / SP / H / M / L

Continuous: Y/N % of Segment _____ Width of Band: _____ m

Sporadic: Y/N % of Segment < 1%

Est. Oil Thickness where > 1cm: _____ cm Est. Oil Penetration: < 1/2 cm

Pooled Oil: _____ % "Free" Oil: _____ % Coated: H ___ % / M ___ % / L ___ % / TRACE 100%

Fresh _____ % Mousse _____ % Tar Formation: 100 %

Drift Debris Oiled ? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L/

Comments:

THERE IS NO RECOVERABLE OIL HERE — THE SMALL OILED AREA NOTED @ S. point of island appears composed of 2 distinct oil generations. —

(1.) old "dry" stiff tar; coat ≤ 20 cm dia. blobs — laced w/ fine debris

(2) "recent" asphalt, 1/2 m x 10 m long; soft w/ dry "dessication crack" skin in part — obviously crude.

62

No PHOTOS; maps attached; no video or samples.

8/7 segment PK-1
09.30 HRS Peak Island.
McPherson Passage

Sheltered rocky coast w/ veneer of cobble beach in places; blocky cobs, subrnd; rare trace oil as 2cm faint tar line @ HWL; sporadic - visible on steep blds & bedrock only; no action
exposure ↑ westward;

Elkhead Pt. - Exposed rocky headland, vert. bedded cliffs to 10m.
no oil - black lichen band may be id'd as oil. 10.50 HRS.
① 12.10 HRS SE. point
20 m long x 3 m wide asphalt coated bedrock and spotted boulders @ HWL, pebbles bound in asphalt - small pavement units - ≤ 30cm dia.
tough rubbery texture, ≤ ½ cm tk; no penetration; possibly old mature bitge or "roofing tar" as well as crude. no odor. 2 generations of contamination! Recent mature mousse/asphalt ↑ ≈ ½ m x 10 m.
conspicuous black lichen zone here;
12.40 END of SEGMENT

LOCATION: Prince William Sd SITE: Peak Is. Naked Group OBSERVER: E.R. White

LOCATION PREFIX: PK SEG. NO.: 1 LENGTH: 13,200 (M)

DATE: 08/09/89 TIME (HHMM): 0930-1230 TIDE HT.: 0.3 - 1.0 (M)

OILED ZONE: Splash High Medium Low

SUBSTRATUM: Rocks Boulder Cobble Gravel Sand Mud

LIVE BIOTA

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

generally continuous on rocks & patchy on beaches // algal cover more diverse on exposed Northeast shore / no kelp beds

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

discontinuous dense beds throughout // some extensive beds in beach faces in MacPherson Passage

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

continuous barnacles throughout // sometimes dense B. cariosos in mid/low intertidal

Littorina

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

often throughout intertidal / sometimes dense @ high-splash zone elevations often associated with Fucus

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

often throughout intertidal zone // sometimes dense @ high intertidal elevations

OTHER OBSERVATIONS: extensive eelgrass beds in MacPherson Passage; lower intertidal zone & course beaches very productive - observed isopods, hermit crabs nereid worms, starfish, blennies

CLEANUP PRECAUTIONS: do NOT disturb unoiled portions of this segment

MAMMALS: Otters 40-60 sea otters; 25-30 in one group on east shore - see map 2 river otters in MacPherson Passage Harbor Seals ___ Sea Lions ___ Whales ___

Other 1 black-tailed doe & 2 fawns observed in intertidal

BIRDS: nesting Tufted Puffins & Horned Puffins (see map) // also family groups of Harlequin ducks & Goldeneyes; also belted kingfishers, bald eagles, great blue herons & shore birds observed

GENERAL OBSERVATIONS:

ecologically this island is very productive & healthy!!

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 8-7-89 Location Peak Is. Site

Location Prefix PK Segment # PK-1 Length 13,200m

Survey Method:

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

Ground ✓ (G - indicate on map)

Known cultural resources (AHRS #) SEW-393/MA-12465 Data Source BIA ANCSA/AHRS Files

Oil conditions/beach visibility Trace to moderate (mostly oil free), good visibility

Width of beach zone surveyed 5-10 m Tree fringe surveyed 2m

Cultural resources observed in beach zone (AHRS code) none

Cultural resources observed in tree fringe (AHRS code) none

General observations justifying survey method and segment's site probability

Shore Profile low angle to high angle beach / vertical rock walls prevailing

Fresh Water Sources several (<10) streams

Sea Exposure McPherson Passage side low energy, elsewhere high energy

Access/Safety good access to beaches, poor to cliffs, poor to good

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

Monitoring during cleanup needed yes/(no) Collection yes/(no)

Photos: Color Roll # — Frames —

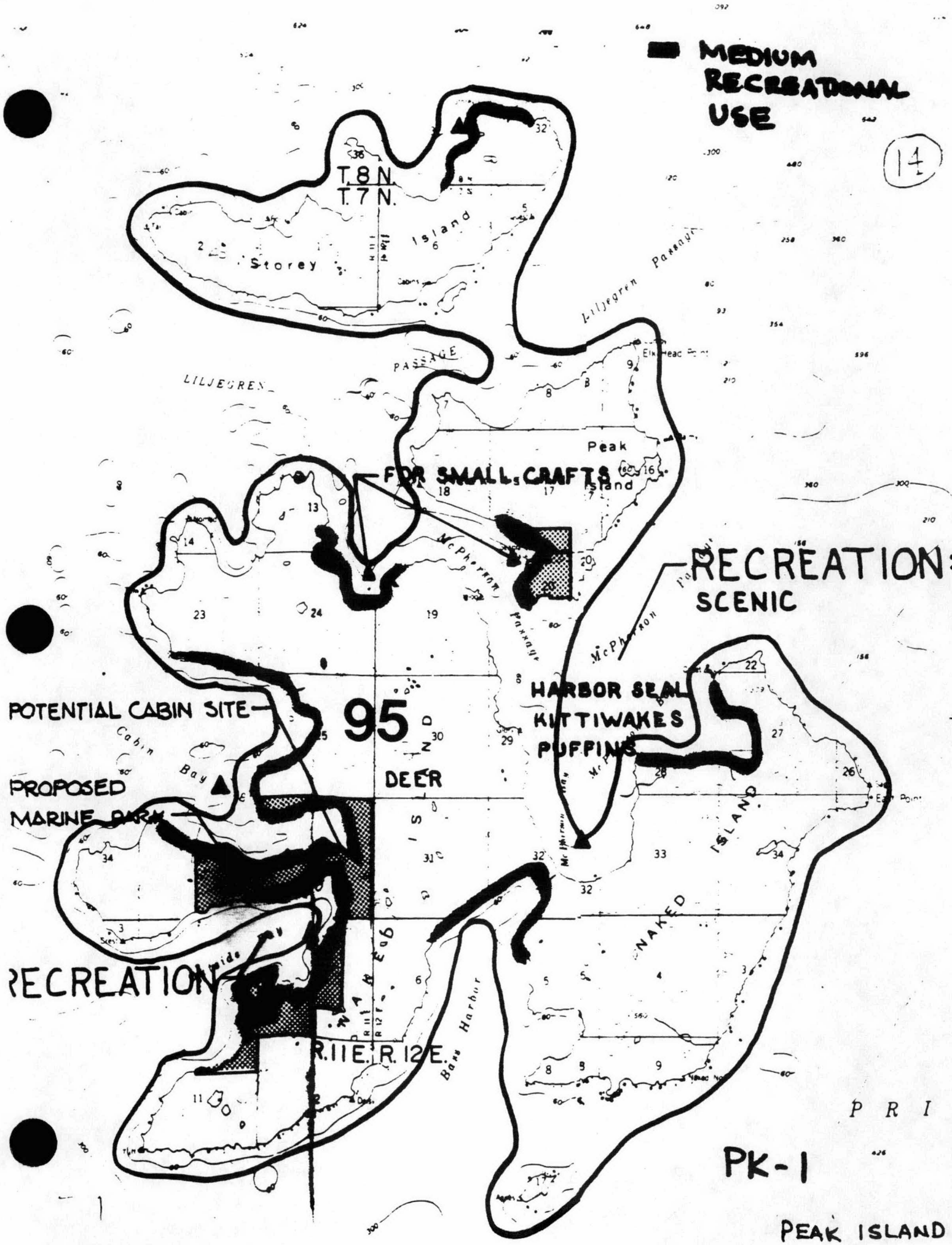
B/W Roll # — Frames —

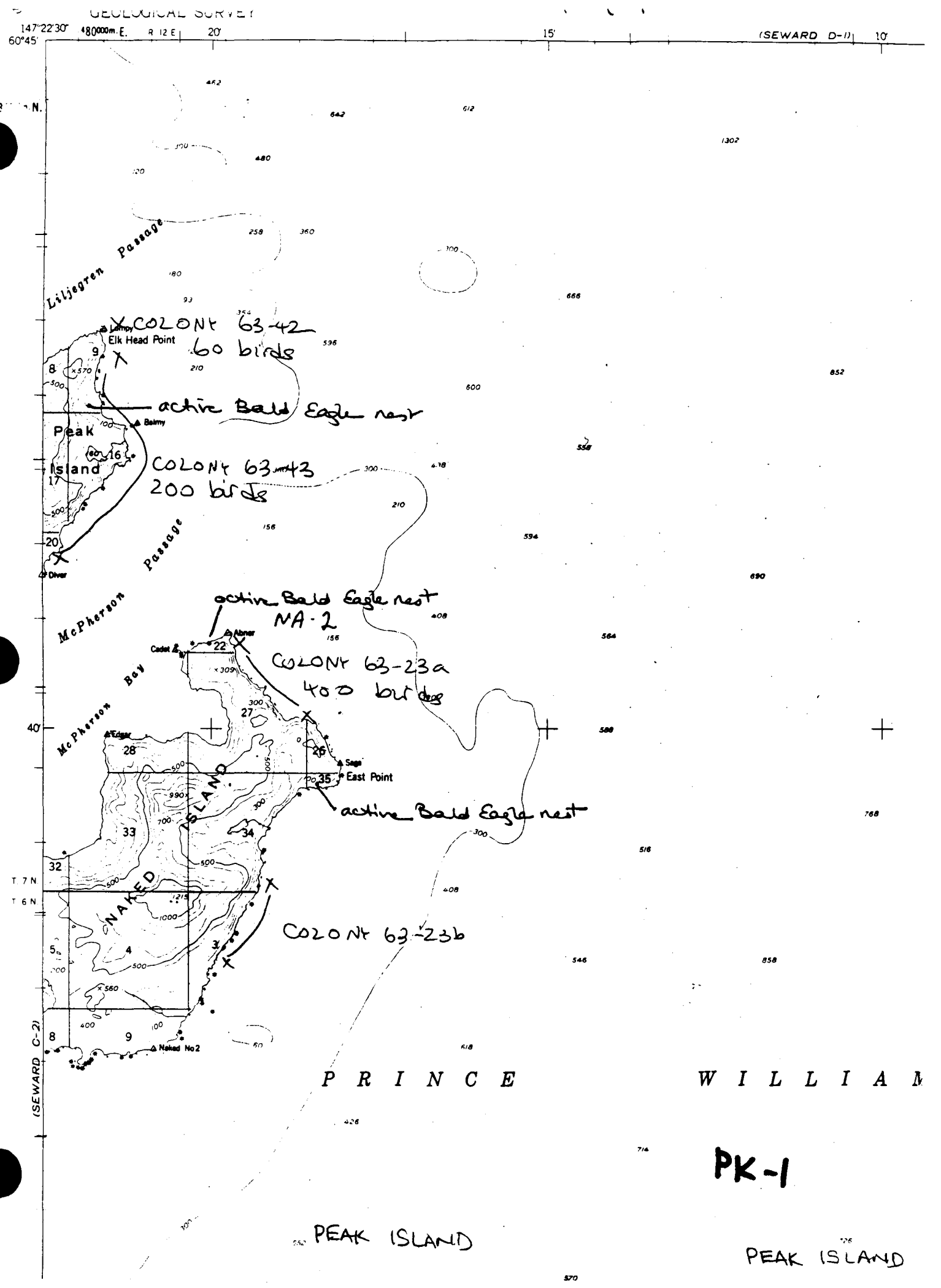
Observer(s) P.G. Phippen

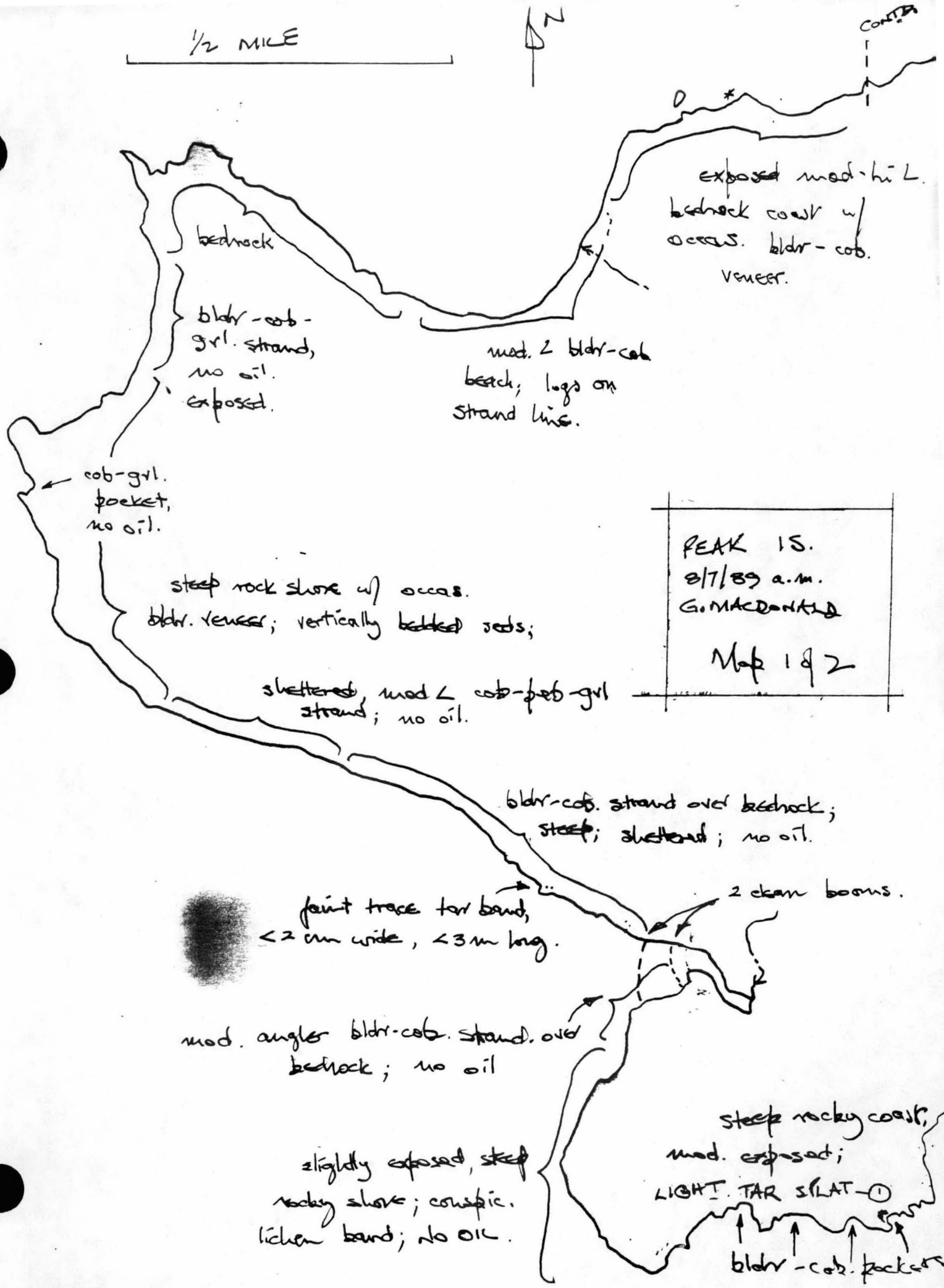
Time survey started 0930 Time survey ended 1240

Cultural resource considerations/restraints:

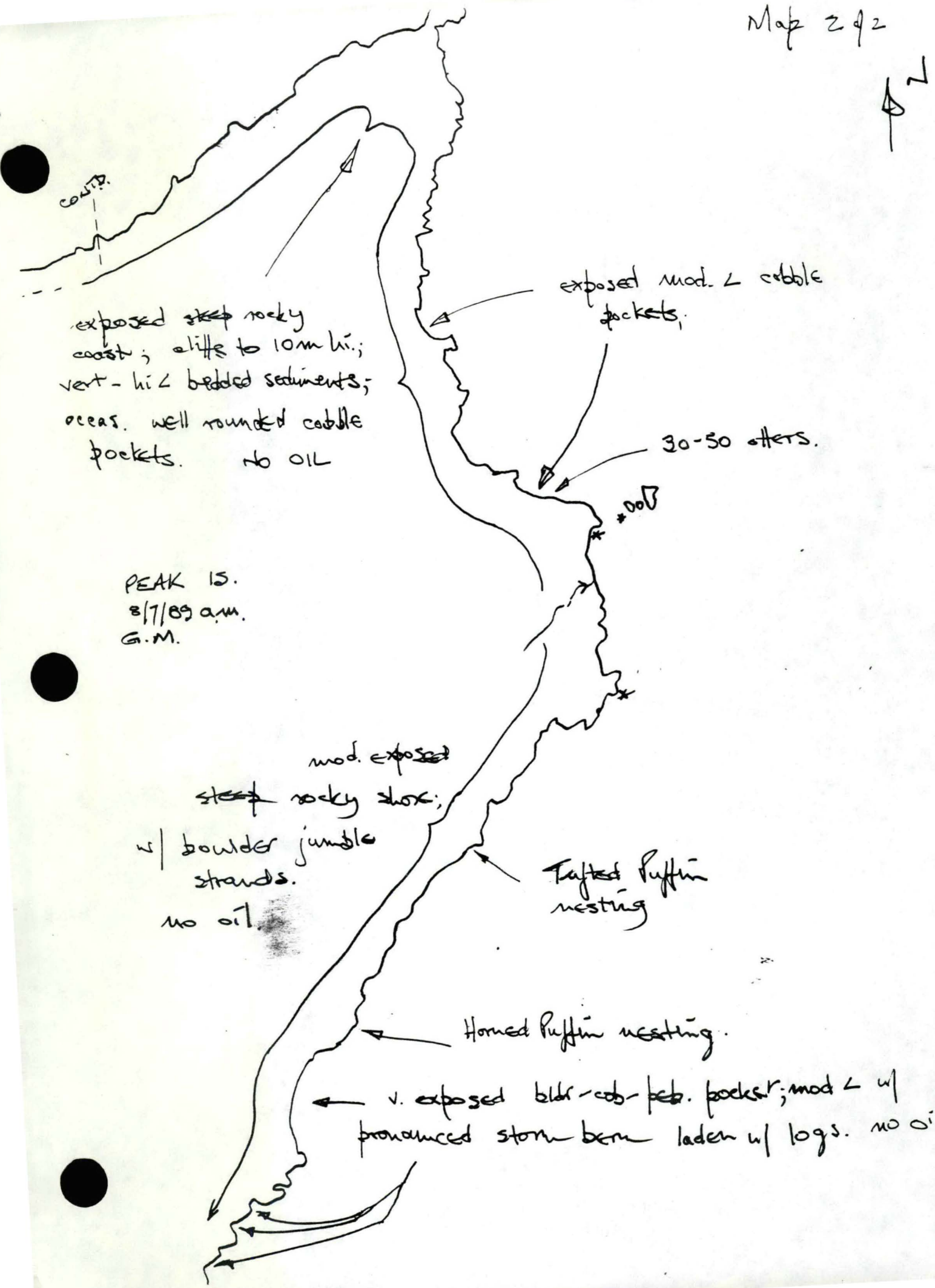
Standard


MEDIUM RECREATIONAL USE
14
T.8 N.
T.7 N.
Storey
Island
Liljegren Passage
LILJEGREN
PASSAGE
Peak
Island
FOR SMALL CRAFTS
McPherson Passage
RECREATION:
SCENIC
HARBOR SEAL
KITTIWAKES
PUFFINS
POTENTIAL CABIN SITE
Cabin Bay
95
DEER
PROPOSED
MARINE PARK
NAKED ISLAND
RECREATION
R.11E. R.12E.
Bass Harbor
PRIN
PK-1
PEAK ISLAND


GEOLOGICAL SURVEY
147°22'30"
480000m. E.
R 12 E
20'
15'
(SEWARD D-1)
10'
60°45'
Liljegren Passage
Elk Head Point
COLONY 63-42
60 birds
active Bald Eagle nest
Peak Island
COLONY 63-43
200 birds
McPherson Passage
active Bald Eagle nest
NA-2
COLONY 63-23a
400 birds
McPherson Bay
East Point
active Bald Eagle nest
NAKED ISLAND
COLONY 63-23b
T 7 N
T 6 N
(SEWARD C-2)
PRINCE WILLIAM
PK-1
PEAK ISLAND
PEAK ISLAND


1/2 MILE
N
CONT'D
exposed mod-hi L. bedrock coast w/ occas. bldr-cob. veneer.
bedrock
bldr-cob-grl. strand, no oil. exposed.
mod. L bldr-cob beach; logs on strand line.
cob-grl. pocket, no oil.
PEAK IS.
8/7/89 a.m.
G. MACDONALD
Map 1 of 2
steep rock shore w/ occas. bldr. veneer; vertically bedded seds;
sheltered, mod L cob-peb-grl strand; no oil.
bldr-cob. strand over bedrock; steep; sheltered; no oil.
2 clean booms.
faint trace tar band, <2 cm wide, <3 m long.
mod. angler bldr-cob. strand over bedrock; no oil
steep rocky coast; mod. exposed; LIGHT TAR SPLAT - 1
slightly exposed, steep rocky shore; conspic. lichen band; no oil.
bldr-cob. pockets

Map 2 of 2


N
cont'd.
exposed ~~steep~~ rocky coast; cliffs to 10m hi.; vert - hi < bedded sediments; occas. well rounded cobble pockets. no OIL
exposed mod. < cobble pockets.
30-50 otters.
PEAK IS.
8/7/89 a.m.
G.M.
mod. exposed ~~steep~~ rocky shore; w/ boulder jumble strands.
no oil.
Tufted Puffin nesting
Horned Puffin nesting.
v. exposed bldr-cob-peb. pockets; mod < w/ pronounced storm berm laden w/ logs. no oil