[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)**

<table>
<thead>
<tr>
<th>ISLAND</th>
<th>CODE</th>
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<tbody>
<tr>
<td>Naked Is.</td>
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<tr>
<td>Danger Is.</td>
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</table>

**GEOLOGIC SEDIMENT TYPE**

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

**DEGREE OF OILING**

- Heavy **HV**
- Moderate **MD**
- Light **LT**
- No Oil **NO**
- Unobserved **UN**

**AREA OF BEACH IMPACT**

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

**ADEC IMPACT SURVEY**

- Heavy **HVY**
- Moderate **MOD**
- Light **LT**
- No Oil **NO**
- Unobserved **UNOBS**

**SHORELINE TYPE**

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

**Comments:**

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

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

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

Includes Shoreline Segments: NA-2 = NA-6

Submitted: ___________________________ Date: 5/19/89
(for Exxon)

FOSC Approval: ______________________ Date: 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

Submitted for approval after cleanup had been conducted. 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.

[Signature]
State Historic Preservation Officer *

EXXON: ___________________________ Date: ______________

FOSC: ___________________________ Date: ______________

* Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands.
<table>
<thead>
<tr>
<th>Surveyed From</th>
<th>Foot/Boat/Helio/Plane</th>
<th>Weather</th>
<th>Sun/Cloud/Rain/Snow/Fog</th>
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</thead>
<tbody>
<tr>
<td>Observer</td>
<td>Nakashima</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LOCATION</td>
<td>McPherson Bay</td>
<td>SEGMENT NUMBER</td>
<td>NA-2 (No. Surveyed)</td>
</tr>
<tr>
<td>LENGTH OF SHORELINE SEGMENT</td>
<td>800 m</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCESS</td>
<td>Foot/Vehicle/Boat/Barge/Helio/Float Plane</td>
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</table>

**SHORELINE:**
- Shoreline Type: SPI/BEA COV/HLD/STRT
- Slope: LANG/HANG/VER
- Wave Exposure: High/Med/Low
- Sediment: B_t / C_t / P_t / G_t / S_t / M_t / R_t / 30_t
- 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: Yes/No
  - % of Segment: 73.95
  - Width of Band: 3 m
  - Sporadic: Yes/No
  - % of Segment: 5
- Est. Oil Thickness where > 1 cm: 2 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 focus is covered by tide before cleaning on low and high angle shorelines.
BIOLOGICAL EVALUATION OF OILED SHORELINES - PRECLEANUP

Shoreline Location: Naked Island  Shore Segment: East McPherson Bay
Date: 4/13/79  Tide: 1400-1500 hrs  low Weather: Sun
Shoreline Type: % by Type
Rocks  Boulders  Cobbles  Gravel  Sand  Mud

Supratidal

Intertidal

Subtidal

Percent Oil Coverage: High tide line__ Intertidal__ Offshore Sheen__
Oil Thickness, mm:     High Tide Line__ Intertidal__
Oil Penetration, cm:  High tide Line__ Intertidal__
Type of Coverage: (Continuous) Patches       Small Spots  Tar Balls

High Tide Line:

Intertidal:  Continuous film, heaviest at north end of segment

Biological Reconnaissance

Dead Invertebrates on Shore: Species/Numbers
Living Invertebrates: Species/Numbers
Nucella 750/m² in heavy Funk: cover at north end of segment, Littorina patchy (0-100/m²) Limpets and barnacles 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/Float

Special Precautions to Take During Clean Up: Try to not disturb the smaller boulders with Fucus (kelp weed) growing on them.
CULTURAL RESOURCE EVALUATION

Date: 4/13/89 Location: NA, NA

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: mod. 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.
SHORELINE OIL EVALUATION [revised 11 Apr 89]

Date: 4/13/89
Time: 12 h 30 m
Observer: 
Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION

LOCATION Prefix NA LOCATION Suffix AIB
LATITUDE: 6 d m s LONGITUDE: 147 d m s
LENGTH OF SHORELINE SEGMENT: ___________ m
ACCESS: Foot/Vehicle/Boat/Barge/Helicopter/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 / M / L

CONTINUOUS: Y/N WIDTH OF CONTINUOUS BAND: _______ m
PATCHY: 10 / 20 / 30 / 40 / 50 / 60 / 70 / 80 / 90 % coverage

EST. OIL THICKNESS: _____ cm EST. OIL PENETRATION: _______ 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 Segments: East McPherson Bay  
Date: 4/13/89  Tide: 1900-1500 hrs Low Weather: Sun

Shoreline Type: % by Type  
Rocks: 20%  Boulders: 15%  Cobbles: 20%  Gravel: 15%  Sand: 25%  Mud: 5%

Supratidal  
Intertidal  
Subtidal  

Percent Oil Coverage: High tide line: 100% Intertidal: Low Offshore: None

Oil Thickness, mm: High Tide Line: Intertidal: 1

Oil Penetration, cm: High tide Line: Intertidal: 0

Type of Coverage: Continuous  Patches  Small Spots  Tar Balls

High Tide Line:  
Intertidal: Continuous film, heaviest at north end of segment

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

Living Invertebrates: Species/Numbers  Nucula 750/m² in heavy fauna; cover at north end of segment, Littorina patch (0-100/m²) limpets 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/Scrub

Special Precautions to Take During Clean Up: Try to not disturb the smaller boulders with Fucox (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 McPheron Bay
LENGTH OF SEGMENT:  100 m
ACCESS: Foot/Vehicle/Boat/Barge/Heli/Float Plane

RECOMMENDATION FOR CLEANUP TECHNIQUE:
Prepared By: ____________________________

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

Ecological restraints: Do not overturn rocks covered with rockweed.

Archaeology: have litter facilities at South half of beach only.
Potential for archaeology always exists. If discovered, please report
To Archaeologist C. Mobley.

CLEANUP STARTED:  _____/_____/89
CLEANUP FINISHED:  _____/_____/8
### KEY

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<td>ST</td>
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<td>ELEANOR IS</td>
<td>EL</td>
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<td>APPELGATE IS</td>
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<td>GREEN IS</td>
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### LOCATION SUFFIX

Use any 2 alphabet characters to describe the site or location

*e.g.* BASS HARBOR  
McPHERSON BAY

Should be a geographic unit if possible.
**KEY**

**BEACH LEVEL**

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<td>HWL to SHWL</td>
<td>SP</td>
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<td>UPPER 1/3 ITZ</td>
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<tr>
<td>MIDDLE 1/3 ITZ</td>
<td>M</td>
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<td>LOWER 1/3 ITZ</td>
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**SEDIMENT TYPE**

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<tr>
<td>COBBLE (64 - 256)</td>
<td>C</td>
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<tr>
<td>PEBBLE (4 - 64)</td>
<td>P</td>
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<tr>
<td>GRANULE (2 - 4)</td>
<td>G</td>
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<tr>
<td>SAND (0.06 - 2)</td>
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<tr>
<td>MUD (&lt; 0.06)</td>
<td>M</td>
</tr>
<tr>
<td>ROCK</td>
<td>R</td>
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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**

<table>
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<tr>
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<td>SURFACE (0 - 3&quot;)</td>
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<tr>
<td>SUBSURFACE (6 - 12)</td>
<td>SU</td>
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<tr>
<td>DEEP (&gt; 12&quot;)</td>
<td>DP</td>
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</table>
SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

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

Includes Shoreline Segments: NA-5, NA-6

Submitted: [Signature] (for Exxon) Date: 3/13/89

FOSC Approval: [Signature] Date: 5/13/89

Endorsed by Interagency Shoreline Cleanup Committee 5-13-89

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
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.

State Historic Preservation Officer *

EXXON: 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: 11:00  Observer: ANDREA MEYER

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

LOCATION

LOCATION  NAKED ISLAND  SEGMENT NUMBER  NA 5

LENGTH OF SHORELINE SEGMENT: ________ m

ACCESS:  Foot/ Vehicle/ Boat/ Helic/ 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: 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 > 1 cm: ________ 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:

About nine 3" torbals in mid tidal zone in focus. Boulders/ Cobble all oil free. Black stain on rock well at high tide line, may have been weathered oil stain or may have been simply colation - no oil present.
ECOLOGICAL EVALUATION

LOCATION: NAKED ISLAND  SITE: VA 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 and by tar balls - rest healthy

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

Balanus (Barnacles): Patchy Y/N  Contin. Y/N  Dense Y/N  Sparse Y/N  None Y/N
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
Occasionally in mid tidal zone, primarily on fucus with live intent
organisms all around.

CLEANUP PRECAUTIONS: No cleanup recommended - Biota in area healthy

MAMMALS: Otters  Harbor Seals  Sea Lions  Whales
Other

BIRDS:

GENERAL OBSERVATIONS:
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: 0 m

Cultural resources observed in beach zone (AHRS code) none
Cultural resources observed in tree fringe (AHRS code) none

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

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

Fresh Water Sources: several medium large ditches

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: yes
Collection: yes/no: 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 is a clean-up operation the area must be re-surveyed for archaeological sites. If here to date undiscovered cultural remains are uncovered during clean-up, contact Exxon archaeological C. Mobley immediately (835-7749)
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.

State Historic Preservation Officer *

Exxon: ____________________________ Date: 5/15/89

FOSC: ____________________________ Date: ____________________

* Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands.
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_  
State Historic Preservation Officer  
Date: 5/15/89

EXXON:  
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: __
Surveyed From: Foot/Boat/Plane Observer: ANDREA MAYER
Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION
LOCATION NAKED ISLAND SEGMENT NUMBER NA 0
LENGTH OF SHORELINE SEGMENT: _______m
ACCESS: Foot/Vehicle/Boat/Barge/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.
ECOLOGICAL EVALUATION

LOCATION: NAKED ISLAND  SITE: NAG  OBSERVER: ANDEA 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/N

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

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.
CULTURAL RESOURCE EVALUATION

Date: May 14, 1989  Location: Naked Island Site: McPherson Bay

Survey Method:
Air (A - indicate on map) Boat (A - indicate on map)
Ground (G - indicate on map)

Known cultural resources (AHRS #) none

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

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

Cultural resources observed in beach zone (AHRS code): none
Cultural resources observed in tree fringe (AHRS code): none

General observations justifying survey method and segment's site probability:
Shore Profile: low energy beaches (15° slope) and headlands (20-30°)

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
Collection: yes

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. Holley immediately (835-7749).
EXXON VALDEZ
SHORELINE TREATMENT APPROVAL

SHORELINE SEGMENT NUMBER  NA-5
SHORELINE SEGMENT NAME  Naked Island
SUBMITTED FOR APPROVAL  5/19/89

COMMENTS: Environmentally clean

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

ADEC Representative was not present.

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.

Signature of ADEC rep

XC: ADEC
EXXON
FSOC
EXXON VALDEZ
SHORELINE TREATMENT APPROVAL

SHORELINE SEGMENT NUMBER NA-2

SHORELINE SEGMENT NAME MCFHerson Passage

SUBMITTED FOR APPROVAL 5/25/89

COMMENTS:

Will complete "sanding" minor pocket(s) this date and
monitor segment over next 3-5 days

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

Coast Guard Comments and Action.

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

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

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

Signature of ADEC rep

Signature of Coast Guard rep

XC: ADEC
EXXON
FSOC
EXXON VALDEZ

SHORELINE TREATMENT APPROVAL

SHORELINE SEGMENT NUMBER
NR 6 (NR 2)

SHORELINE SEGMENT NAME
McPHERSON PASSAGE - NAKED ISLAND

SUBMITTED FOR APPROVAL
5/125/89

COMMENTS:

Will complete "snarling" minor pockets (oil) this date and
monitor segment over next 3-5 days

Signature of ADEC rep

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

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.

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.

Signature of Coast Guard rep

XC: ADEC
EXXON
FSOC
SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Location (see enclosed map): NAKED ISLAND BLOCK

Includes Shoreline Segments: NA-20, NA-21

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

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

FOSC Approval: David Twaddle 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

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A.DEC
A.FG
A.DNR
CAC
PWSCA
USFS
NAKED ISLAND BLOCK
NA-20, NA-21
(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 archeological 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.

Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands.
Date: 8/7/83  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: 4,550 m

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

SHORELINE:
Shoreline Type: SPI/BEA/COV/HLD/STRT  Slope: LANG/HANG/VER
Wave Exposure: High/Med/Low
Sediment: B/t / C/s / P/s / G/t / S/t / M/t / R/t

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 > 1 cm: ______ cm  Est. Oil Penetration: ______ cm

Pooled Oil: ______ % "Free" Oil: ______ % Coated: H/t / M/t / L/t

Fresh __________ %  Mousse __________ %  Tar Formation: ______ %

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

Comments:
Exposed rocky shore w/ bbl/cab veneer over bedrock.

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

No treatment.

Q=2. - No photos, map attached; no video or samples.
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W. of A Kelsi - 12 km

1. skidder in pocket; mud - 15

east of W. of A Kelsi; asphalt
scoured cobs, lenses of bedrock; Hitz-
Splash Z; 60 x 96 x 12 - wide; 2 x 10
perforations; well and cobs;
12 bags of sand (dry) on edge
of grassland e supra Z; soft thin
top; 1/2 mm thick; sketch.

Note: 1 inch old pavement asphalt
as marked in Pk-1; not cracked.

2. exposed sandy pebbly beach of
tar seat - 1 in x 12 x 15 mm; in the
mod. L beach; 1/2 in; the existence
of some pebbly gravel.
LOCATION: Prince William Strait  SITE: Naked Island  OBSERVER: E.R. White

LOCATION PREFIX: NA  SEG. NO.: 20  LENGTH: 9050 (M)

DATE: 08/14/89  TIME (HH:MM): 1320-1355  TIDE HT.: 0.8-1.7 (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

- discontinuous fronds on beaches often with Tub account + luminescence @ low/wind

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

- discontinuous dense beds on rock / wave in beach faces

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

- continuous throughout - sometimes dense spot 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 @ subtidal elevations

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

MAMMALS: Otter Harbor Seals Sea Lions Whales

BIRDS: assorted seagulls (10-20) / pied cormorant guillemots (4-10)

GENERAL OBSERVATIONS:
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 ______ 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 wall

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. Phillips

Time survey started 13:20  Time survey ended 15:55

Cultural resource considerations/restraints:

Standard
PEAK
8/7/89
G. Macdonald
SEG. NA-20

ISLAND

SEIZE MEADOW

rocky coast of ocean
bldy. jumble

No oil

seabirds

straw over
hedrock

192
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

Recommended Cleanup Activity(ies):
- Manually remove bags of oiled sorbants and debris, and 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:
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: 9/7/89  Time: 13:55  Observer: G. MCDONALD

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

LOCATION

LOCATION  NW. Naked Island  SEGMENT NUMBER  NA-21

LENGTH OF SHORELINE SEGMENT: 1,520 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/20t / C/10t / P/8t / G/5t / S/2t / M/1t / R/Go t

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: 12 m

Sporadic: Y/N  % of Segment 25%

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

Pooled Oil:  "Free" Oil:  Coated: H/10 / M/70 / L/10 t

Fresh  Mousse  10 t  Tar Formation: 90 t

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

Comments:

20+ bags oiled segments; debris lying on beach 12 m.

Exposed rocky headland of mid. pocket beaches.
Map/Aerial photo marking segment boundaries attached

VTR: Y/N Tape Number(s) None
Photography: Y/N Roll Number(s) TSW (12-25) (26-28)
Sample Numbers Collected: no
Segment NA-21
W. of A. Kelso: 13-35 lbs

1. Midd. bedrock pocket; mod.-hi exposure. W. of A. Kelso: asphalt coated rocks, boulders & bedrock. Hitz - Spill 3: 60m long x 12m wide, 810 penetration, well mud coats; 25 bags of sorbent/defoam on edge of grassland & supra 2; soft thin tar, 1/2 mm thick. Sketch:

Note: These old pavement asphalt as marked in PK-1, not crude.

2. Exposed bedrock beach & tar: 12m x 12m x 15mm; lo-mod. L. beach; <1/2 mm thick; evidence of some point self cleaning.

Halt 15:20 hrs

18-20 hrs

Location 3: cob-pab - bedrock beach, low, mod. exposure. Penetration < 15mm; tar coating. 1/2 m band of tar. penetration C: Hitz.

Sketch:

End of Segment.
SEGMENT NA-21

location 0 (map attached)

8/7/89 P.M.
C. MacDonald
**BIOLOGICAL EVALUATION**

**LOCATION:** Prince Williams Fjord  
**SITE:** Naked Is.  
**OBSERVER:** E.R. White  

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

**DATE:** 08/07/89  
**TIME (HHMM):** 1355-1400  
**TIDE HT.:** 13 - 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 rocks / patchy on beaches  

**Mytilus (Mussels):** Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N  
- scattered dense colonies on rock

**Balanus (Barnacles):** Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N  
- 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 an oiled lower intertidal

- minimize disturbance to lower beach faces  
- this includes foot traffic  
- wear 6-18 with pop

**MAMMALS:**  
- Harbor Seals  
- Sea Lions  
- Whales

**BIRDS:**  
- **(Other):**

**GENERAL OBSERVATIONS:**
CULTURAL RESOURCE EVALUATION

Date 8-7-89 Location Nakel Is. Site _______________________
Location Prefix NA- __________ Segment # NA-21 __________ Length 1520

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 _________

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

Cultural resources observed in beach zone (AHRS code) none

Cultural resources observed in tree fringe (AHRS code) CmT (sewage tank)

General observations justifying survey method and segment's site probability

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

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 __________ Collection yes __________

Photos: Color Roll # ______ Frames ______

B/W Roll # ______ Frames ______

Observer(s) P.R. Philpenn

Time survey started 1400 __________ Time survey ended 1520

Cultural resource considerations/restraints:

Standard
"heavy" - mod. oil as top coat
on bluffs, cove.
12m X 60m long
< 10m feet?

trace:
taxi pavement
@ HWL & ports
@ MTR => HRTZ
Sub. End.
SEGMENT

beach
12m-17m top
coat over HRTZ -
shark.

< 3m long
- rare faint
1cm wide to
like e. HWL
mod 2,6
cob. beach.
no oil.

NA-20

NA-5

NA-21

50
100
100

1" = 1000 ft
1" = 12,000

NAKED
SEGMENT

INSPECTION RECORD

Date: 9/4/89

Shoreline Treatment Process(es) Completed for this Segment
- Hot water wash
- Warm water wash
- Water deluge
- Mechanical
- 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 NA-22.

Signature: [signature]
Date: 9/16/89 Time: 1500
Printed Name: Bruce E. Williams

Existing Shoreline Condition As Visually Determined by USCG

<table>
<thead>
<tr>
<th>Surface Oil</th>
<th>Percent</th>
<th>Degree of Oiling</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heavy</td>
<td>&lt; 1%</td>
<td></td>
</tr>
<tr>
<td>Medium</td>
<td>1 - 10%</td>
<td></td>
</tr>
<tr>
<td>Light</td>
<td>11 - 100%</td>
<td></td>
</tr>
<tr>
<td>Very Light</td>
<td>1 - 100%</td>
<td></td>
</tr>
<tr>
<td>None</td>
<td>100%</td>
<td></td>
</tr>
</tbody>
</table>

Existing Shoreline Condition As Visually Determined by ADEC

<table>
<thead>
<tr>
<th>Surface Oil</th>
<th>Percent</th>
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<td></td>
</tr>
<tr>
<td>Very Light</td>
<td>1 - 100%</td>
<td></td>
</tr>
<tr>
<td>None</td>
<td>100%</td>
<td></td>
</tr>
</tbody>
</table>

Subsurface Oil
- Yes (isolated)  No

COMMENT BELOW

ADEC rep

Comments: Beach is clearing tuff through wave action. SoT bent rocked.

Signature: [signature]
Date: 9/16/89 Time: 14:37
Printed Name: Daniel A. Roberts

FOSC rep

Demobilization approved/disapproved

Comments: No signs of pooled oil.

Signature: [signature]
Date: 9/16/89 Time: 14:30
Printed Name: James R. Porter

COPY: Exxon ADEC FOSC ISCC
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: [Signature]
Date: 8/22/89
(for Exxon)

ISCC Recommendation: [Signature]
Date: 8/28/89

FOSC Approval: [Signature]
Date: 8/27/89

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
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USFS
NAKED ISLAND WEST

BLOCK

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

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.

* Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands.
Date: 8/14/89  Time: 18:10  Observer: G. MARDONALD
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)

SHORELINE:

Shoreline Type: SPI/BEA/COV/HLD/STRT  Slope: LANG/HANG/VER
Wave Exposure: (High/Med/Low)
Sediment: B30 % / C15 % / P5 % / G % / S % / M % / R50 %
Drift Debris on Beach: (Yes/No)  Type (Supra/Upper/Mid/Lower)

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 > 1 cm: _______ cm  Est. Oil Penetration: ≤ 10 cm
Pooled Oil: [ ]  "Free" Oil: 20 %  Coated: H % / M % / L 80 %
Fresh _______ %  Mousse _______ %  Tar Formation: 85 %
Drift Debris Oiled? (Yes/No)  Type (Supra/Upper/Mid/Lower)

Amount: H/M/L/

Comments:

Steep, med. angle rocky shore w/ persisting soft tar drips and splats - upper HTZ - Supra
Moderately oiled bedrock - bluish - cobble w/ free mousse trapped in upslope of boulders and below clasts;
   Bot location - 1 & 2 are shallow coverings of cobbles over smoothed/worn bedrock.
Map/Aerial photo marking segment boundaries

VTR: Y/N
Tape Number(s)

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

Sample Numbers Collected: HOME
8/14 SEGMENT NA-22
18:10 HRS

rocky coast w/ blyr-cob. beaches;
mod - hi.; exsplat;
face - old mousse @ HTZ-3L
photos - T1 G1 #1, 8.

#7 free mousse trapped @ dock & blyr
#8 beach face; darker interstices
loc 0° 10' one old short mousse.

Steep rocky point
2 mod. cob. - blyr beach;
free mousse @ soft tar coal
photo #2 - general view 3 foot

Very lw. E. beach compared to 0.
no evidence of self. churning here!

Steep rocky coastal boulders -
trace - blyr light oil @ thin (< 0.2m)
tar line: e up. HTZ.

20:25 HRS END A SEGMENT
8/14/89
G. MACDONALD
NAKED ISLAND
Segment: NA-22
NA-33
NA-24

NA-23

2-9 m x 120+ m
x ≤ 10 cm oil coated band,
Fresh tar coated band,
G. HITTZ; oil spots E
mid HITTZ > Supra.

mod. L, exposed
sub-rounded bld.; cob. beach;
tar spots E & up. HITTZ; concentrated
locally to 1/2 m wide band N 100 ft long.
< 10 cm penetration.

7m x 15m x < 10cm; mousse coated cobs;
E up. HITTZ - Sp; photos 7, 8; locally free mousse
under cobs; little oil visible on topsides of rocks.

2 m x 10 m old mousse;
fresh tar coated band,
G. HITTZ; cob. beach.

NA-191

NA-24
(map 192)

CABIN BAY

NA-23

NA-33

NA-24

KEY

trace oil - dot density
indicates relative amount

- light oil

- moderate oil

- heavy oil

1,000 ft
1:12,000
ECOLOGICAL EVALUATION

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

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

DATE: 08/14/89  TIME (HHMM): 1810 - 2020  TIDE HT.: 40 ft - 60 ft (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 headlands + large boulders. Absent or in very low % on cobble/boulder beach areas. Fucus plants oiled (light-medium) 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 large area atop large boulders. See map. Nucleus 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. Sp- scattered in high, high intertidal with also. Dead individuals present in moderately oiled areas.

Littorina

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

Littorina are absent or in low % in vegetated areas. Present instead on boulders + cobbles in area without Fucus. Littorina are present in vegetated areas near rocks especially on headlands.

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

Similar to Littorina w/ Littorina. Prominent on bare rock/boulders/pebbles on beach. Some limpets (larger individuals 1cm) under Fucus blades on headlands.

OTHER OBSERVATIONS:

In areas w/ high amount of oil - lightly oiled Fucus plants appeared stressed (lighter in color, less fluffy plants, signs of degradation) however moderately oiled plants appeared dead. Similar conditions also hold for barnacles in these areas (lightly oiled barnacles are unhealthy, moderately oiled barnacles are dead).

Laminarian kelps in low intertidal/shallow subtidal.

CLEANUP PRECAUTIONS:

Avoid recontamination of nearby healthy flora/fauna - especially on rocky outcrops, 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 high water.

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

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

GENERAL OBSERVATIONS:

Species diversity & organism abundance is relatively reduced in this segment. Plants + animals within the 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 (cobbled/bouldery moderate slope). This could account for the reduction in diversity + abundance of organisms seen (relative to more sheltered areas of the Sound).
CULTURAL RESOURCE EVALUATION

Date 8-14-89 Location NAKEE Is. Site
Location Prefix NA Segment # NA-22 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 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) C, M, T

General observations justifying survey method and segment's site probability

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

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 #6 P#13, #14 Frames 18-25, 2-8 (resp)

Observer(s) P. E. Shippen

Time survey started 1800 Time survey ended 2030

Cultural resource considerations/restraints:

No access to uplands, Standard Constraints.
Senard C-2
5/28/89

COLONY 63-52X
700 birds

NA-5
active Bald Eagle nest

COlony 63-520
active Bald Eagle nest

NA-22
Naked Island

COLONY 63-52a
700 birds

300 birds

Naked Island
REFERENCE MAP.

All segments except for NA-5, 6 & AB-51 were scored, as per Team 1 (Brisko) task list 9 8/10/89.

G. Macdonald  Aug '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 water's 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.

* 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

**SHORELINE:**

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

Wave Exposure: High/Med/Low

Sediment: B25 / C40 / P10 / G10 / S3 / M3 / R15

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 > 1 cm: _cm  Est. Oil Penetration: _10 _cm

Pooled Oil: ___  "Free" Oil: _ tex  Coated: H___ / M___ / L100

Fresh ___  Mousse _13 ___  Tar Formation: _Y5 _

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

Comments:

Beach shows signs of heavy foot traffic & Suprazar may have been treated already.

High energy from waves very evident on NE half of beach - headland of A Bow is source of cobble & boulders which become V. rounded to N & S of A Bow headland. Note: This segment replaces NA-04.

Page 2: Map attached; no other data - photo, video or sample.
well rounded cobble beach

rock outcrop

2 m wide mouse coat sand

9 m wide soft sandy coated cobble; cobbles locally soft; gvl. pavement.

tar spots only

trace mouse stain @ up. Hitz

2-9 m wide x 140 m long

x - m 10 cm deep oiled zone

 Entire beach is spotted or splashed w/ mature mowed tar from mid Hitz -> Supra zone.

8/15/89
G. MacDonald

segment: NA-23

- 100 m approx. -
8/15/89 Segment NA-23
08:25 hrs Replaces NA-1

mod. exposed, low-mod. cob-bdry beach
bounded by red boulder outcrops;

mature mousse d- to q small < 1/3
cm dia. splats, drips & mid HTZ.
Supra zone: 2-3 m band &
mousse coated cobbles @ up HTZ;
penetration < 5 cm; in 140 cm long;
beach may have been treated
heavy foot traffic if fire ring or supra
litter, graveyard!
sketch: fig. 5 details;

oil contaminates thru out to 5.

09:25: END 1 SEGMENT
at old NA-01 boundary.
NA-23
8/14/89
G. Macdonald
Naked Island
Segment: NA-22

mod L, exposed
sub-rounded blkr-cob. beach;
tar spots @ up. Hitz;
concentrated locally to 1/2 m wide band n 10 m long;
≤ 10 cm penetration.
7 m x 15 m x <10 cm
mousse coated cobs;
@ up. Hitz-Sp; Photos 7,8; locally free mousse
under cobs; little oil visible on topsides of rocks.

NA-24 (map 192)

NA-25 (NA-01)

6 m x 60 m x 10 cm
mousse/fresh-tar coated
bedrock, blkr-cob & gpl @
up. Hitz-Sp; same free
mousse; v. hi. energy
beach; low-mod. L.

Key

- trace oil - dot density
  indicates relative amount
- light oil
- moderate oil
- heavy oil

1,000 ft
1:12,000
LOCATION: Prince William Sound  SITE: W. Naked Island  OBSERVER: S. Deneen
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. Scattered patches present across beach area.
Young plants (<1cm) present in middle high tide. Several other algal species forming mats mid-high tide

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 Oncella 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 large boulder/cobble (Notoacmea praeornata) or under Fucus blades (Cohnella digitata)

OTHER OBSERVATIONS:
Laminarian kelp 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, at 2-3 fathoms depth. Clean up from kelp observers along w/empty clam shells. 20 km seastars (Lophopoda) present also in this area.

CLEANUP PRECAUTIONS: Avoid recolonization of diverse subtidal communities. Minimize disturbance to native fauna + flora in nearby intertidal rocky outcroppings. Stay on cobble/boulder beach only. Clean up only at (+) 4.0 ft tide or higher.

MAMMALS: Otters 1.0 Harbor Seals ___ Sea Lions ___ Whales ___


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 conditions (rounded cobbles/boulders also suggest this). The subtidal environment supports a wide range of organisms due to the presence of many different substrata (fire sand, cobbles/boulders = bedrock).
CULTURAL RESOURCE EVALUATION

Date 8-15-89  Location NAKOA Ps.  Site ____________________________

Location Prefix NA  Segment #: NA-23  Length ___500__

Survey Method:
Air_________ (A - indicate on map) Boat_________ (A - indicate on map)
Ground_________ (G - indicate on map)

Known cultural resources (AHRS #) 5064 Data Source AHRS File

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

Width of beach zone surveyed 20 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 (5+)

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

Shore Profile Moderate to low angle boulder/cobble beach

Fresh Water Sources back beach pondage and seeps

Sea Exposure exposed to west, low to moderate waves

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) D.E. Phipps

Time survey started 0820  Time survey ended 0920

Cultural resource considerations/restraints: Structural constraints

__________________________________________
REFERENCE MAP.

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

G. MACKENZIE 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.

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

Date: 8/3/89 / Time: 09:30
Observer: G. MARSONALD

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

SHELORLINE:

Shoreline Type: SPI/BEA/COV/HLD/STR
Slope: LANG/HANG/VER
Wave Exposure: High/Med/Low

Sediment: B^20 / C^20 / P^10 / G^10 / S^10 / M^1 / 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

Est. Oil Thickness where > 1 cm: ∠cm Est. Oil Penetration: ∠10 cm

Pooled Oil: ∠t "Free" Oil: ∠t Coated: H/M/L

Fresh ∠t Mousse: ∠10 t Tar formation: ∠0 t

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

Comments:

Rocky NW; light oil on tar coat @ upper HTZ - 100m x 3m x 10m - 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.
8/18/89  Segment NA-24
07:30 AM

mod. exposed rocky brr - bedrock show
trace - v. light oil to tar coat and
draft e - H-H-Z - Sp; not easily
visible from air, often behind & on
side of brrs.
6.3 nmi 50 nmi 510 m w of tar coat
on cobs, gull & lower side of brrs;
persistent trace for~ 10 to 15 nmi.

Cabin Bay 10:00
steep bedrock & brrs show; steeply
bedded, easily eroded sediments; no oil.

10:55 END OF SEGMENTS
6mx60mx10ms old mouse/fresh tar coated bedrock; birds; cob & pub @ up; HITZ - SP. some free mouse; v. hi. energy; beach; low-mod. L.

NA-23 (NA-01)

6mx6óm; exposed; sub-rounded bbls; cob; beach; tar spots @ up; mud; HITZ; local to 1/2 m wide band n low long. < 10 cm penetration.

15mx15mx<15cm; mouse coated cobs; cob; pub; HITZ - SP; photos 7, 8; locally free mouse; wided; cobs; little oil visible on topsides of rocks.

2-9m x 120+m x <10mm oil mouse & fresh tar coated band; cob; pub; beach; tar spots @ up; mud; HITZ - SHAPE.

KEY

- trace oil - dot density indicates relative amount
- light oil
- moderate oil
- heavy oil

NA-23

1,000 FT
1:12,000
Map 282

no oil

Anodromous fish stream

mod. < Peb-gill beaches bounded by steep rock outcrops
no oil

rocky point x
no oil

Sea Grass beds
Chum bed.

low x, slightly exposed bldv-cob beach w/ sandy muds @ <
no oil

steep - mod. < rocky shore w/ bldv-cob beaches; no oil.

crispy
Fuel
Cache
(SLU pump)

Mussel bed

mod. < Peb-gill beach w/ fuel bladder
fuel pump & outboard lube & antifreeze booms.

drowned tree stumps @ x.

gill beach

shattered coral, muddy bottom

x campsite

rocky shore w/ bldv's

bldv-cob beach, no oil

0 1,000 2,000 FT

1: 12,000

NA-24
ECOLOGICAL EVALUATION

LOCATION: Prince William Sound  SITE: W. Naked Island  OBSERVER: S. Dean
LOCATION PREFIX:  SEG. NO.: NA-24  LENGTH: 7100 (M)
DATE: 08/15/89  TIME (HHMM): 0930-1055  TIDE HT.: 3.0-7.0 ft. (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 continues 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 (10x10cm) infrequent patches on rocks & boulders. One larger mussel
was a soft sediment located (site map). Large mussel patches of mussels in one location.

**Balanus** (Barnacles): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
Dense-continues on both rocky headlands & cobble/boulder beach. Some individuals oiled - the
w/light coating appeared streaked 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, Nucella (Frilled Dogwhelk) present - 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 dominant
Limpet species are represented in high density. Nucella, Nucella is found on top of bare rocks while
the density of littorina is typically lower. Marine invertebrates - the larger invertebrates

**OTHER OBSERVATIONS:** Two signed anadromous fish streams located (* 12360 + 4 Sub
Also 2 additional potential anadromous fish streams located (low to very low potential). SEE MAP. The salmon
Seagrass beds & clam beds also present with segment (SEE MAP). Jellyfish (Anaklia sp.) observed in near
waters

**CLEANUP PRECAUTIONS:** Insufficient oil present to justify disturbance/damage to both the
intact & suboptimal 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 marine invertebrates should undergo self-cleaning.

**MAMMALS:** Otters  Harbor Seals  Sea Lions  Whales

**BIRDS:** 1 Common merganser  2 Cranes feeding intertidally  2 Oyster Catchers  1 Bald eagle
Numerous Whistlers, 3 Pigeon guillets, 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 # of microhabitats.
CULTURAL RESOURCE EVALUATION

Date 8-15-89 Location NAKED IS Site Cabin Bay
Location Prefix NA Segment # WA-24 Length 710.3m

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 is moderate

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

Cultural resources observed in beach zone (AHRS code) none
Cultural resources observed in tree fringe (AHRS code) none

General observations justifying survey method and segment's site probability

Shore Profile moderate angle beach/loose vertical walls
Fresh Water Sources several streams aren't probably anomalous
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. Dychko

Time survey started 0925 Time survey ended 1055

Cultural resource considerations/restraints:

Standard Constraints
REFERENCE MAP

All segments except for NA-5, 6 & AB-51 were scatted, as for Team 1 (Zlisko) task list 9 8/10/89.
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.

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

Date: 8/5/89  Time: 17.00  Observer: GRAHAM
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: 2,150 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: B30% / C30% / P50% / G10% / S10% / M70% / R30%
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 2
Continuous: Y/N % of Segment <15% Width of Band: 25 m
Sporadic: Y/N % of Segment 20%
Est. Oil Thickness where > 1 cm: _______ cm  Est. Oil Penetration: _______ cm
Pooled Oil: _______ % "Free" Oil: _______ % Coated: H/M/L 90% FRESH
Fresh _______ % Mousse _______ % Tar Formation: _______ %
Drift Debris Oiled?: Yes/No Supra/Upper/Mid/Lower Amount: H/M/L/

Comments:
Moderately oiled beaches in 2 locations with trace - light
spatters, drips and thin tar lines on N/W aspect.
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) T1 G1, #12, 13, 14

Sample Numbers Collected:

#12 general view to west of moderately oiled beach location. Oil extends to 2nd figure.

#13 detail of mouse trapped in grooves behind boulders.

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

[Image]
8/15/89 Segment NA-25.
17:00 HCS

Steep - mud on bedrock w/ boulders; sand exposed.

1. Soft sandy @ top. HITZ - mature mousse; some fine mussels topped in guls- over-boulders behind bths. oil zone 5-10 m deep; drip & splats extend below this band to mud. HITZ total length affected 115 m of which 75m is mud. width (5m wide).

2. Surrounded bths/ cobs indicate mud exposure; ruined bedrock indicates mud hi. exposure - this site will self clean through abrasion (shark impression -

3. Photo # 12 general view west.
#13 detail of mousse trap.

Photo # 14 - subarch. front.

Light oil SW of DEER.
Trace old (years old) dry tar splat.

20m long band of mud oil (5m wide)
Hi.E. cob. beach; well worn bedrock exposed in beach face; will self-clean;
tar stained poth washed up beach to supra 2. in places.

Steep rock outcrop to SW edge no oil.

17:45 End of segment
ECOLOGICAL EVALUATION

LOCATION: Point William Sand
SITE: W. Naked Island
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 outcappings, 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 outcappings 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 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 = barnacles, Fucus, mussels appear stressed. HA Moderately oiled organisms (i.e., organisms completely covered w/ moderate oil) are dead (gaping empty shells, dead barnacles + dead Fucus). Seagrass (Zostera) present in shallow subtidal.

Jellyfish (Aurelia) also in these waters.

CLEANUP PRECAUTIONS: If any cleanup should occur — avoid trampling of healthy flora + fauna. Maintain at least 200 ft. distance from shore near 1st eagle nest (see map). Avoid relocating

MAMMALS: Otters Harbor Seals Sea Lions Whales Other

1 nest + BIRDS: 3 eagles — 2 adults + 1 juvenile (Young bird w/ plume indicating age of 1 yr or less). Kittiwake

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

**Date:** 8-15-86  
**Location:** NAked IS  
**Site:** Cabin Bay  
**Location Prefix:** NA  
**Segment:** NA-25  
**Length:** 2750m

**Survey Method:**  
Air  
Boat  
Ground  

**Known cultural resources (AHRS #):** None  
**Data Source:** ARK

**Oil conditions/beach visibility:** Moderate to trace, good vision  
**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):** CMT's 10-1

**General observations justifying survey method and segment's site probability:**  
Shore Profile: Vertical rock walls, mod. to low angle beach deposit.  
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 #: Papers 14 Frames 9-10

**Observer(s):**  
E. Phippen

**Time survey started:** Time survey ended 1700 1845

**Cultural resource considerations/restraints:**  
Standard Constraints. No access to upland.
REFERENCE MAP.

All segments except for NA-5, 6 & AB-51 were scatted, as per Team 1 (Irish) task list 9/8/89.

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.

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

Date: 6/15/89  Time: 18:30  Observer: G. MARDONAD

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

LOCATION

LOCATION: Outside Bay, Naked 1st.  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/ HANG/ VER

Wave Exposure: HIgh/ Med/ Low  COVE.

Sediment: B 35% / C 10% / P 5% / G 10% / S 25% / M 1% / RAS 5%

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 < 5%

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

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

Fresh ______%  Mousse ______%  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 with boulders and some well rounded steep cobbles beaches.

Trace tar drips, spots, and v. thin lines at mid SH. Supra zone is discontinuous and often faint.
8/13/89  SECTIONS NA-26

18.30 hrs

Steep, unstable shae w/ wet, worn beach; occ. black, cap, strand, no oil

Outside bay: < 2 m wide for band @ S, discontinues, spots & drips to 3 m wide.

Lagom & old boat bogs.

Persistent trace of tar spots, drips & thin lines ~ 1 m wide, discontinuous @ HHZ = surf.

Broad stepped rounded cobbled beach w/ light oil band - self-sealing.

Steep rock headland. A tuft.
No oil.

21.10 hrs

End of SECTIONS
8/9/89 p.m.
G. Macechland

NA-26
Map 2 & 3

Low relief rocky shore
up str-r-grl

beaches

Stranded

beach on
rocks

Steep rocky shore
with blend; occasional
pebble-gvl beach

Sea Grass

low L; gvl-mud "flats"--

scattered.

Anadromous fish stream
-- v. low flows at present.

Beach sand; peat lined; no oil

Steep rock

Walls of str-r-grl

rock pockets.

19:30 hrs

outside bay

Sea Grass beds
Clam beds

str-r-grl pockets

20.45 hrs

cont'd

1:12,000
NA-26

Map 3.03

mod 2, bevelled well rounded cobble beach, faint light oil line, 2 m wide x 150 m long - fer stains on rocks.

V. hi. energy site.

steep rocky shore, vertically bedded sediments, easily eroded; boulder strands; no oil.

rock walls to 10 m high; conspicuous black slaty schistock present.

steep changing rock headland.

3 Peregrine falcons

No oil

gull roost

Kittiwakes, Glanvus-wing

> 50 individuals

No oil

gull roost

steep overhanging cliffs to 60 m high, no oil

occas. bdr. rockfalls & cob-pab. pockets.

9/16/89 a.m. 09:15 hrs.

exposed, steep rocky coast, walls to 25 m; no oil

bdr-cob pocket

Glaucus-wing

approx. 30.

CONT'D

1:12,000
ECOLOGICAL EVALUATION

LOCATION: Prince William Sound  SITE: W. Naked Island  OBSERVER: S. Dean
LOCATION PREFIX:  SEG. NO.: NA-26  LENGTH: 12,000 (M)
DATE: 06/15/89  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
Patchy + continuous on rocky intertidal 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 cobbles + boulders + rock, 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. No dorwena pers were found in higher #s on tops of bare rocks, especially higher up.

OTHER OBSERVATIONS: 2) Pisaster (Ochre Star) present in one region. Many dead Barnacles (Semibalanus cariosus) also present, aggregation for spawning were present + pink salmon. 2 large mass fish streams located (not marked w/supps). Flock gathering for spawning were present (pink salmon). 1 back tidal lagun + bog area located - calanoids, worms, worms + mussels. Sunken log (sugar cane) + plant also present. Drift seaweed rolled up, in wrack - appears oiled but not - present in several locations. Seagrass beds, clumps of seaweed are also present in segment. SEE MAP! Seagrass was scattered.

CLEANUP PRECAUTIONS:

Minimum amount of oil present - i.e., only traces. This does not warrant disturbance/damage to healthy intertidal + subtidal plants + animals. Therefore no cleanup is recommended.

MAMMALS: Otters 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/silt to bedrock + boulders. Wave exposure range from calm to exposed. The organisms reflect these different physical factor regimes + vary considerably also.
CULTURAL RESOURCE EVALUATION

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

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

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 probability:

Shore Profile  Wed. to low angle beach, Rocky Headland

Fresh Water Sources  Several streams, including small ones

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)  D.G. Philipp

Time survey started  Time survey ended

Cultural resource considerations/restraints:

Standard
Seward C-2
5/25/89

NA-5
active Bald Eagle nest

NA-26
- Naked Island

700 birds

NA-24
- 300 birds
REFERENCE MAP.

All segments except for NA-5, 6 & AB-51 were scouted as per Team 1 (Brizka) task list 9 8/10/89.
SEGMENT
INSPECTION RECORD

SEG NA-22 INSPECTION # 1
DATE 9/2/89

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 THE SEGMENT NA-22 IS COMPLETE & READY FOR DEMOBILIZATION TO A NEW SEG

Signature

Date: 9/18/89 Time: 13:10
Printed Name: BRUCE E. WILLIAMS

Exxon

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

Comments

Existing Shoreline Condition As Visually Determined by USCG

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<th>Percent</th>
<th>Degree of Oiling</th>
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<td>100 %</td>
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Subsurface Oil

- Yes
- No

Reassessment

- Yes - necessary
- No - not necessary unless re-oiled

ADEC rep

Comments

Signature

Date: 9/18/89 Time: 13:20
Printed Name: DALE GARDNER

FOSC rep

Demobilization approved/disapproved

Signature

Date: 9/18/89 Time: 13:25
Printed Name: EXXON ADEC FOUC ISCC

a
SEGMENT INSPECTION RECORD

SEGMENT NA-23
DATE 9/18/89

Shoreline Treatment Process(es) Completed for this Segment

- Hot water wash
- Warm water wash
- Water deluge
- Mechanical Haul 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: [Signature]
Date: 9/18/89
Time: 13:10

Printed Name: BRUCE E. WILLIAMS

Existing Shoreline Condition As Visually Determined by USCG

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<th>Percent</th>
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Existing Shoreline Condition As Visually Determined by ADEC

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<td>59</td>
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</table>

Subsurface Oil

- Yes
- No

COMMENTS BELOW

Reassessment

- Yes - necessary
- No - not necessary unless re-oiled

ADEC rep

Comments: Some patches of thick medium oil remain.

Signature: [Signature]
Date: 9/18/89
Time: 17:25

Printed Name: DALE GARDNER, ADEC rep

FOSC rep

Comments: [Comments]

Signature: [Signature]
Date: 9/18/89
Time: 13:20

Printed Name: [Printed Name]

COPY: EXXON ADEC FOSC ISCC
SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Location (see enclosed map): NAKED ISLAND SOUTH BLOCK

Includes Shoreline Segments: NA-27

Submitted: John J. Nauman Date: 8/23/89 (for Exxon)

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

FOSC Approval: 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:
- Exxon Shoreline Coordinator
- Exxon Shoreline Supervisor
- Exxon SCAT file
- SHPO
- FOSC
- CDFU
- NOAA
- EPA
- USDA (FS)
- USFW
- A.DEC
- A.FG
- A.DNR
- CAC
- PWSCA
- USFS
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.

State Historic Preservation Officer *

ISCC: 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: 01/30/89  Time: 07:50
Observer: G. MCDONALD

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

**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/ HL/ STRT
- Slope: LANG/ HANG/ VER
- Wave Exposure: High/ Med/ Low
- Sediment: B/20% / C/10% / P/10% / G/10% / S/10% / M/10% / R/10%
- Drift Debris on Beach: Yes/ No

**OIL**
- Degree of Oiling: Heavy/ Moderate/ Light/ No Oil/ Unobserved
- Area of Beach Impact: SU/ SP/ H/ M/ L

<table>
<thead>
<tr>
<th>Continuous: Y/ N</th>
<th>% of Segment</th>
<th>Width of Band:</th>
<th>Sporadic: Y/ N</th>
<th>% of Segment</th>
</tr>
</thead>
</table>

| 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

**Comments:**
- A steep rocky shore; eroding easily, often fringed with boulders; pocket beaches on the SE aspect of corrugated coast;
- Outside Bay has a sheltered cove at its head and a small lagoon. Barely a trace of oil at wave train/ tar line; 17 HWZ 5 ms wide
Map/Aerial photo marking segment boundaries __ Attached __

VTR: Y/N Tape Number(s) __ Ti Cl, # 15 - 18 __

Photography: Y/N Roll Number(s) __

Sample Numbers Collected: __

# 15 general view, drill & small dacker
# 16
# 17 cable-scanned outcrop
# 18
8/16/89  Segment NA-27
07:50 hrs

Steep overhanging cliffs to 15 m; exposed; some cobb boulder beaches. Some cliff wander.
outward failure - repairs
8:45 resume SCAR

Photo #15 general view; cliff pockets
#16
#17 cob scoured out
#18

No oil
Boat Harbor no oil
Lagoon no oil
Delta 2; no oil
Delta Naked 2; no oil 10:50
v. exposed rocky seafloor.
 celebrates beach; rockslides; fast
erosion here!
East point - cliffs to 60 m; overturned
pitched boulders in rock.
11:30 hrs End of Segment
steep rocky shore, vertically bedded sediment, easily ended; boulder strand, no oil.
rock wall to 10 m high.
 conspicuous black slatesy bedrock present.

steep overhanging cliff, oil

3 Peregrine falcons

No Oil

Kittiwake, Glanemo-wing

> 50 individuals

occas. btr. rockfall & cob-pab. pockets.

mod C, bermed well-rounded cobble beach, faint light oil line,
2 m wide x 150 m long - few stained cobs.

v. hi. energy site.
NA-27

Crumpled coastline
- easily eroded, low relief (< 5m)
- rocky shore; boulder-cobble strand common; steeply dipping sediments
- no oil

Steep, rocky shore cliffs to sea
- v. hi. energy / exposed eroding coastline

M 2/15

09:15 hrs
NA-27
Map 395
8/16/89 a.m.
G. McDONALD

- Sea Grass beds
- Mod L, bldr-cob, shore, Sandy MITZ - MITZ
- Mod - steep L, boulder over bedrock, mod. exposed; no oil.
- Mod L, sandy, grvl - fab beach
- Mod L, bldr-cob, beach
- Exp. rocky shore; boulder veneer in places; no oil
- Mod L, angular cob beach; no oil
- Well rounded, bldr-cob pocket
- Gull colony
- Appx. 75 bldr-cob pockets
- Low relief (≤ 3m) rocky shore w/ steep bldr-cob pockets
- 10-15 hrs
- Eagle nest
- Bull Kelp bed
8/14/89
G. MacDonald
NG-27
Map 4 9 5

1: 12,000

0 1,000 2,000 3,000 ft

v. exposed, low relief
rocky shore; most 4, well rounded
bluff-cab. pockets on bedrock;
easily eroded, steeply dipping
sediments;
south coast riddled w/ submerged rocks;
pocket beaches of well rounded
cabs & blks.

Regional grain of rock
outcrop of escarpment overlying

Harbour seal
haulout

Kithioke roost

Bull kelp
bed

Approx. 50
Bull kelp
bed
8/16/89 a.m.
G. MARDONI
NA-27

- Steep cliff
- SAGE
- Pinched folds
- Puffin nests
- East Point
- ('tight' fold)
- Outcrop to 10m.
- Stream \( W \)
  waterfall.

Segment NA-27

Map 50'5

Scale 1:12,000
1 mile

1 kilometer
ECOLOGICAL EVALUATION

LOCATION: Prince William Sound  SITE: S.E. Naked Island  Bass Harbor
LOCATION PREFIX:  SEG. NO.: NA-27  LENGTH: 22,000 (M)
DATE: 08/16/89  TIME (HHMM): 0850-1130  TIDE HT.: 0.0-7.4 ft.
OILED ZONE: Splash  High  Medium  Low
SUBSTRATUM: Rocks  Boulder  Cobbles  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, + cobble. 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. A "r's towards calmer 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 individuals near back 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
- Hairack + inside Bass Harbor. Black-legged Kittiwakes + Glaucom-winged gulls common for nests present. Harbor Seal haulout location also present. 2 Eagle nests observed. Man tufted + horned puffins w/nests present.

CLEANUP PRECAUTIONS:
- Too many ecologically sensitive areas + insufficient amounts
- Do not justify clean up + subsequent disturbance to environment.

MAMMALS: Otters 4  Harbor Seals 3  Sea Lions 6  Whales

BIRDS:
- Tufted + Horned Puffins - nesting
- Kittiwakes + Glaucom-winged gull roosts + colonies
- Red-faced Cormorants - 2
- Peregrine falcons (passing 2 adults + 1 young) flying over Sandpipers - 2
- Gum + Oystercatchers - 2
- Belted Kingfishers - 3
- Eagles + 2 bald eagle nests

GENERAL OBSERVATIONS:
- Distinct vertical intertidal function exists on outer edge of outer coastline + Bass Harbor type
- Many ecologically sensitive areas are present.
CULTURAL RESOURCE EVALUATION

Date: 8-16-89 Location: NAKED IS.

Location Prefix: NH  Segment #: NH-27  Length: 22,000 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: AKRS

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, HTI
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 wind to low angle rocks.

Fresh Water Sources: Streams

Sea Exposure: High to moderate exposure

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 #:  Frames:

Observer(s): D.G. Phillips

Time survey started: 0745  Time survey ended: 1145

Cultural resource considerations/restraints:

Standard Constraints
NA-5
active Bald Eagle nest

NA-27
700 birds

NA-52a
700 birds

NABEO ISLAND

Colony 63-52a
REFERENCE MAP

All segments except for NA-5, 6 & AB-51 were scatted, as per TEAM 1 (Brēka) task list 8/10/89.
**SEGMENT INSPECTION RECORD**

**SEGMENT:** AB-5

**DATE:** 9/8/99

**INSPECTION RECORD**

**Island Off Bash Harbor, Naked Island**

**Shoreline Treatment Process(es) Completed for this Segment**

- [ ] Hot water wash
- [X] Mechanical Hand Washing
- [ ] Warm water wash
- [ ] Non-mechanical
- [ ] Water deluge
- [ ] 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:** 9/18/99 **Time:** 14:00

**Printed Name:** Bruce Williams

---

**Existing Shoreline Condition As Visually Determined by USCG**

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<th>Degree of Oiling</th>
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**Existing Shoreline Condition As Visually Determined by ADEC**

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<td>Very Light</td>
</tr>
<tr>
<td></td>
<td>100</td>
<td>None</td>
</tr>
</tbody>
</table>

**Subsurface Oil**

- [ ] Yes
- [ ] No

**Comment Below:**

**Reassessment**

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

**ADEC Rep**

Comments: No significant oiling

**Signature:** [Signature] **Date:** 9/18/99 **Time:** 15:00

**Printed Name:** Dale Gardner

---

**FOSC Rep**

**Demobilization:** [Approved/Disapproved]

**Signature:** [Signature] **Date:** 9/18/99 **Time:** 15:00

**Printed Name:** [Signature]
SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Location (see enclosed map): NAKED ISLAND EAST BLOCK

Includes Shoreline Segments: NA-28

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

ISCC Recommendation: Sharon K. Christopher Date: 8/28/89
FOSC Approval: David Jaeger 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
- CDFU
- NOAA
- EPA
- USDA (FS)
- USFW
- A.DEC
- A.FG
- A.DNR
- CAC
- PWSCA
- USFS

DEC upset about "graffiti on rocks"
NAKED ISLAND EAST BLOCK NA-28
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):

-Use bioremediation if possible. Beach 1+2. Physically remove as much of the
  -Manually remove contaminated drift material and patches of mobile oil
  -No other cleanup recommended at this time due to very high
  wave exposure.

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
OCUR CLOSE TO WATER'S EDGE. SEE ADVISORY. IN MANUAL

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: 8/24/89

ISCC: Date: 8/26/89
EXXON: Date: 8/28/89
FOSC: Date: 8/31/89

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

DATE ___________________ SHORELINE SEGMENT NA-28

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

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.

2.Location 11 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 site is ecologically sensitive.

Ecological Constraints (from site survey):

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

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

Archaeological 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: ________________

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

LOCATION
LOCATION N.W. 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/STR
Slope: LANG/HANG/VER
Wave Exposure: HIGH/MED/LOW
Sediment: B/S / C/S / P / C / S / M / R
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 boulder
Est. Oil Thickness where > 1cm: _____ cm Est. Oil Penetration: > 40 cm
Pooled Oil: _____ % "Free" Oil: 20 % Coated: H/M/L 80 %
Fresh ______ % Mousse ______ % Tar Formation: 80 %
Drift Debris Oiled? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L

Comments:
- Vertical Hiangle cliff of heavily oiled cobble-blend beach as veneer on & heavily scoured bedrock.
- Small stream flushing mousse, light fractions to create light sheet here. Very high wave energy here; the beach will self-clean.

Includes segment NA-04

Site 0 has had an unknown amount of treatment already - foot traffic marks, gloves, graffiti, sand/visual, 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 boundaries all scalloped by cobbles abrasion.

#20 WESV side of location 1

#21 WESV, view west.

#22 view east, location 1

#23 WESV, entire location 1
8/16/89  SegmW  NA-28

11:30 hrs.

Steep cliffs to form high; bunched jetties; trace of band @ 30, <10
was wide; v. exposed, NE aspect.

Steep pub-cob-blend pocket beach;
well rounded rocks; heavily rounded & worn bedrock.

Location 1

2 areas of oyster

1] east end, 4m x 30m x 30m

tur stained & covered with cob


Figuring up now.

Photo #20, #21 view W.

Location 2

15m x 130m x 50m

Mound of tur coated sand &

SW to SE.

flushed by stream & sand

Skull mark.

Photo #24 - general view

and strong behelven other lar

#19 

Faceted boulder

#22 

View to E

#23 

Complete view west!

This includes segment NA-04.

At present, this beach is
self cleaning by:

(i) abrasion, agitation & wave action

(ii) flushing, flooding & current

of beach by water table &

small streams.

Photo #24 - general view.

Location 2: small pub-cob pocket: 12m x 16m tur stained & coated.

currently self cleaning

12-45 hrs

end of SEGMENT

#2 re-checked 14:30 hrs -

logs in prominent berm nor

oiled.
8/6/89
G. MacKenzie

4 m wide x 60 m long
<10 m deep, fresh
terraced boulders
sl zone; muddy, hi exposure

20 m x 25 m < 5 m deep
stained & coated sed. bldrs & gvl @ wp. Hitz;

NA-29 (includes NA-03)

Map 192

Bldry-gvl beaches on bedrock

Edgar

beach

bldry-gvl beaches

unmar cove

pa cove

shted; low relief rocky coast w/ angular - subrounded bldrs &
strand in places; shattered slaty
mudstones; no oil

bldry-fringed, low
relief rock walls

boulder beaches
no oil; mud

rocky

coast

shalefall

light

terrain

band

on

boulders.

3 x 20 m.

Sharp cob-web: pocket beach.

steep cob-web: pocket beach.

12 m wide x 45 m long
> 20 m deep, well rounded boulders

Pocket beach;

NA-28

(includes NA-04)

Small stream

4-15 m wide x 175 m long
< 40 cm deep, heavily
oiled cob-web bldrs. beach

@ Hitz - Supra.
oiler stained logs; free waves

mainly fresh, terr. coast;

v. hi. energy location; some
self-cleaning evident
SEGMENT: NA-0

location 0

- Single oiled band w/ water portion partly buried, washed up the beach.
- 15 m wide x 20 m long x 40 mm deep oiled zone @ HRTZ -> supra oil sheen flushing from beach.
- Soft, fresh tar, free oil buried in subaerials.
- Steep slab-cob beach w/ pronounced term; tar coated and stained rocks; 3m wide x 30 m long x 30 mm deep @ supra zone.
- Tar-coated rocks & cobbles.
- Steep rock outcrop, tar coated blocks & cobbles, mousse saturated gravel.
- Oil stained logs & stream.
ECOLOGICAL EVALUATION

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

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

DATE: 08/16/89  TIME (H/HM): 1113 - 1245  TIDE HT.: 7.0 - 10.4 (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 only dense growths on larger boulders - few outcropping. Present - scattered clumps across 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 sand and vertical rock walls.

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

Scattered on sides and tops of larger boulders. Present on sides of some vertical rock walls.

**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 + Dictyotena) rolled up in wrack. Sleep cliffs w/vegetation on them back down onto pocket beaches. Cobble located 10cm below surface are oiled. Larger boulders also have an oil ring on the sides approx 10cm down when sand is dug away.

**CLEANUP PRECAUTIONS:** High energy exposure will tumble sediments on beach. This should be a self-cleaning action. Nesting horned puffins are absent within segment. These areas should be avoided if any cleanup activity occurs. 566/MA.

**MAMMALS:** Otters  Harbor Seals  Sea Lions  Whales

**BIRDS:** 1 bald eagle  4 - Osprey catchers  Nesting horned puffins

**GENERAL OBSERVATIONS:** Beaches in this segment experience very high wave exposure - one sediment transport occurs - as evidenced by burial of oiled cobbles. This scouring activity greatly reduces species diversity - organisms abundances within the segment
(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date B-16-89 Location NAKEO 15 Site __________________________

Location Prefix NA Segment #: NA-28 Length: 1500 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 E.

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

Width of beach zone surveyed: 15 m Tree fringe surveyed: No

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, broken boulder/pebble in

Fresh Water Sources: seeps, streams.

Sea Exposure: high energy

Access/Safety: poor to moderate, hazardous to moderate

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): Philip

Time survey started: 1150 Time survey ended: 1240

Cultural resource considerations/restraints:

Standards and Constraints
REFERENCE MAP.

All segments except for NA-5, 6, & AB-51 were scouted, as per Team 1 (Briska) task list 9 8/10/89.
SEGMENT
INSPECTION RECORD

DATE: 9/8/89

SEG NA-28 INSPECTION #1

Shoreline Treatment Process(es) Completed for this Segment

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

Exxon

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

Exxon: [Signature]

TREATMENT OF SEGMENT NA-28 IS COMPLETE AND READY FOR DEMOBILIZATION TO A 0020 SEGMENT

Date: 9/18/89 Time: 13:10

Printed Name: BRUCE E. WILLIAMS

Existing Shoreline Condition as Visually Determined by USCG

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<th>Percent</th>
<th>Degree of Oiling</th>
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<tr>
<td></td>
<td>&lt; 0</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>100 %</td>
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</tr>
</tbody>
</table>

Subsurface Oil:

- Yes
- No

COMMENT BELOW

Reassessment:

- Yes - necessary
- No - not necessary unless re-oiled

ADEC rep

Comments: Droplets of heavy/medium oil remain. Most of it is very tacky/tacky and would not respond well to treatments, it would probably build up.

Signature: [Signature]

Date: 9/18/89 Time: 13:25

Printed Name: DALE GARDNER

Demobilization approved/disapproved

FOSC rep

Comments: [Signature]

Date: 9/18/89 Time: 13:15

Printed Name: [Signature]

COPY: EXXON ADEC FOSC ISCC
SHORELINE PRE-CLEANUP ASSESSMENT BLOCK REPORT

Location (see enclosed map): STOREY ISLAND - NORTH

Includes Shoreline Segments: ST-1

Submitted: Q.R. McLain Date: 5.19.89
(for Exxon)

FOSC Approval: C.E. [Signature] Date: 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
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A.FG
A.DNR
CAC
PWSCA
USFS
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.

[Signature]
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.
Surveyed From: Helio/Plane

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATION
LOCATION: STOUGY ISLAND
SEGMENT NUMBER: 3T-1

LENGTH OF SHORELINE SEGMENT: 9400 m

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

SHORELINE:
Shoreline Type: SPL/BEA/COV/HLD/STRT
Slope: LANG/HANG/VER
Wave Exposure: High/Med/Low
Sediment: B/20% / C/5% / P/5% / 0% / S/1% / M/5% / R/55%
Drift Debris on Beach: Yes/No

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 > 1 cm: _____ cm Est. Oil Penetration: _____ cm
Pooled Oil: _____ t "Free" Oil: _____ t Coated: M_____ t / N_____ t / L_____ t
Fresh: _____ t Mousse: _____ t Tar Formation: _____

Drift Debris Oiled? Yes/No

Supra/Upper/Mid/Lower: Type LOGS

NO OIL IN SEGMENT - NO CLEANUP RECOMMENDED.
ECOLOGICAL EVALUATION

LOCATION: STONY ISLAND  SITE: ST-1  OBSERVER: MEYER
LOCATION PREFIX: ST  SEG. NO.: 01  LENGTH: 9480 (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, barnacles healthy and abundant

CLEANUP PRECAUTIONS: NO OIL = NO CLEANUP

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

Other

8 surf scoters, 2 shovelers, 5 glaucous-winged gulls plus group of 50-100 glaucous-winged gulls.

BIRDS: 4 cormorants, 2 wandering tattors, 6 pigeon guillemots, 2 eagles, 1 owl Crow, 4 mergansers, 12 hawks

GENERAL OBSERVATIONS: ________________
CULTURAL RESOURCE EVALUATION

Date: 5/15/89  Location: Stony 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'  Tree fringe surveyed: 0-10'

Cultural resources observed in beach zone (AHRS code): None
Cultural resources observed in tree fringe (AHRS code): None

General observations justifying survey method and segment's site probability:
Shore Profile: Moderately sloped, sandy or collected 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 #:  Frames: 
B/W Roll #:  Frames: 

Observer(s): C. Wilson

Time survey started: 10/15  Time survey ended: 1900

Cultural resource considerations/restraints:
If unknown undetected cultural resources are uncovered during cleanup, contact Upper archaeologist, C. McPherson immediately.
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: [Signature] 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.

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

ISCC: Sharon K. Christopher

EXXON: Daniel C. Saff

FOSC: C. E. Miller

Date: 8/30/89

Date: 8/30/89

Date: 8/30/89

* Signature required to satisfy stipulations in Alaska DNR land use permits for tide and submerged lands.
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  K-1

LENGTH OF SHORELINE SEGMENT: 13,200 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  S aspect
Sediment: B20% / C10% / P5% / G5% / S4% / M4% / R65%
Drift Debris on Beach: Yes/No  5% 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 < 1%

Est. Oil Thickness where > 1 cm: _______ cm  Est. Oil Penetration: < 1/2 cm
Pooled Oil: ______ % "Free" Oil: ______ % Coated: H____ / M____ / L____ / TRACE 100%
Fresh ________ %  Moussie ________ %  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 at S point of island appears composed of 2 distinct oil generations.

1. Old "dry" stuff tar; coat ≤ 20 cm dia. blobs - laced w/ fine debris
2. "Recent" asphalt ≤ 1m x 1m long; soft spd dry "degradation crack" skin in part - obviously crude.

No photos; unattached; no video or samples.
8/17 Segment PK-1
09:30 hrs Leak Island
Molasses Passage

Shallow rocky crag of verey of cobble
beach in place; stony area. Suband
more trace oil as 2cm faint tar line
at HWL; sporadic - visible on steep bluffs
& bedrock only; no action
exposure & westward;

Elkhead Pt - Geopared rocky headland
vert. bedded cliffs to 10m.
no oil - black liken band may
be 1/10 as oil, 10-50 yrs.

12:10 hrs SE point
20m big x 3m wide asphalt coated
cobble and spotted boulders at HWL
boulders bound in asphalt - small
formation units - < 80cm dia.
tough rubber texture, 5 to 1/2 cm thick;
no penetration; possibly old
mature depth or "melting tar" as well
as crude. No odor. 2 generations
of contamination & recent mature
mixture of asphalt 1/2m x 10m
conspicuous black liken band loss;
12:40 End of SEGMENT
LOCATION: Prince William Sea  SITE: Peak Is. Naked  OBSERVER: C. R. White
LOCATION PREFIX: PK  SEG. NO.: 1  LENGTH: 13.200 (M)
DATE: 08/05/89  TIME (HHMM): 01:50 - 12:30  TIDE HT.: 03:10 (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 rocky patches on beaches, /algae cover more diverse on exposed Northern shore / no kelp beds

Mytilus (Mussels): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
- discontinuous dense beds throughout / some extensive beds in beach rocks in MacPherson Passage

Balanus (Barnacles): Patchy Y/N Contin. Y/N Dense Y/N Sparse Y/N None Y/N
- continuous barnacles throughout / sometimes dense B. carcinosus 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 / 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 elevation

OTHER OBSERVATIONS:
- extensive etchgrass beds in MacPherson Passage; lower intertidal zone of coarse beaches very productive / observed impale, hermit crabs, mearcid worms, starfish, blennies

CLEANUP PRECAUTIONS:
- do NOT disturb unalbum portions of this segment

GO sea otter j 20-30 in one group on entire shore - see map
2 river otters in MacPherson Passage

MAMMALS: Other Harbor Seals Sea Lions Whales

OTHER: 1 black-backed dog + 2 hares observed in intertidal

BIRDS: nesting Tufted Puffins Harlequin Ducks (see map) also family groups of Harlequins ducks + Goldeneye j also belted kingfishers, bald eagles, front blue heron, *hare birds observed

GENERAL OBSERVATIONS:
- ecologically this island is very productive + healthy!
CULTURAL RESOURCE EVALUATION

Date 8-7-89 Location Peak 15 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/AH-12465 Data Source: AHRS Filing

Oil conditions/beach visibility: Tree to moderate (mostly oil free), good visibility

Width of beach zone surveyed: 5-10 m Tree fringe surveyed: 2 m

Cultural resources observed in beach zone (AHRS code): none

Cultural resources observed in tree fringe (AHRS code): none

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

Shore Profile: Low angle to high angle beach, vertical rock walls, prevailing

Fresh Water Sources: Several (<10) streams

Sea Exposure: McPherson Passage side: low energy, McPherson high energy

Access/Safety: good access to beaching, 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/□ Collection: yes/□

Photos: Color Roll #: ______ Frames: ______

B/W Roll #: ______ Frames: ______

Observer(s): [Redacted]

Time survey started: 0930 Time survey ended: 1240

Cultural resource Considerations/restraints:

Standard
COLONY 63-42
60 birds

active Bald Eagle nest
Elk Head Point

COLONY 63-43
200 birds

active Bald Eagle nest
NA-2

COLONY 62-23a
400 birds

active Bald Eagle nest
East Point

COLONY 62-23b

P R I N C E  W I L L I A M

PK-1

PEAK ISLAND
½ MILE

- Bedrock
- Blly-cob-blly-strand; no oil; exposed
- Mod. 2 blly-cob beach; logs on strand line.
- Cob-gyl. pocket; no oil.
- Steep rock shore; occasionally.
- Blly. veneer; vertically bedded rocks.
- Sheltered, mod. 2 cob-fab-gyl strand; no oil.

- Joint trace tar band; <2 cm wide, <3 m long.
- Mod. angler blly-cob-strand over bedrock; no oil

- Slightly exposed, steep rocky shore; cobble.
- Yellow band; no oil.

Exposed mid-hill bedrock coast w/ occasional blly-cob. veneer

PEAK 15
8/7/85 a.m.
G. MacDonald
Map 1 & 2

Steep rocky coast; mod. exposed; light tar slat; cobble
Exposed steep rocky coast; cliffs to 10m hig.; vert - hi k bedded sediments; occas. well rounded cobble pockets. No oil.

PEAK 13.
8/7/89 a.m.
G.M.

mod. exposed
steep rocky shore;
boulder jumble
strands.
no oil.

Tafted Puffin
nesting

Humped Puffin nesting.

v. exposed b minimalist pocket; mod - w
pronounced storm-borne laden w/ logs. No oil.