

MA-003
FOUL BAY

ASC 15003

ACE 1369647



Dup.

DOCUMENTS IN STREAM FILES

ASC# _____ Segment # _____

____ '89 Intertidal Assessment Survey, Sport/Com. Fish
____ '89 Shoreline Clean-Up Program (SAT)
____ '89 Anadromous Fish Stream Authorization, for instream work
____ '89 Stream Treatment Reports
____ '89 Demobilization Reports ____ Bioremediation ____ other
____ '89 RLS Sheet ____ Oil sed. sample ____ Egg sample
____ '89 Fall Walk-a-thon Survey, ADEC
____ '89 Winter Assess. Study Site ____ Winter Stream Survey Form
____ '89 Other Documents _____

____ '90 Pre-Anadscat Survey, multi-assessment form
____ '90 Anadscat Survey
____ '90 Anadromous Fish Stream Evaluation (work order)
____ '90 Anadromous Fish Stream Addendum to work order
____ '90 Shoreline Evaluation, SAT and work order for segment
____ '90 Anadromous Fish Stream Authorization, Title 16 permit
____ '90 Stream Treatment Report
____ '90 ADEC Demobilization Report for Bio
____ '90 ADF&G Oiling Condition Survey, for ASAP use (Aug. Survey)
____ '90 ASAP Survey ____ ASAP Rec. ____ ADEC Rec. (____)
____ '90 Other Documents _____



OFFICIAL PHOTOGRAPH ADF&G EXXON VALDEZ OIL SPILL

OFFICE: VALDEZ

DATE: 10/10/89

TIME: -0-

SEGMENT#: MA002A

STATION#: -0-

LOCATION: ABOVE FOUL BAY, ON MAINLAND, NORTH TIP

REASON FOR TAKING PHOTO: NORTH TIP. UNDOC. SALMON SPAWNING STREAM.
AERIAL INTERTIDAL.

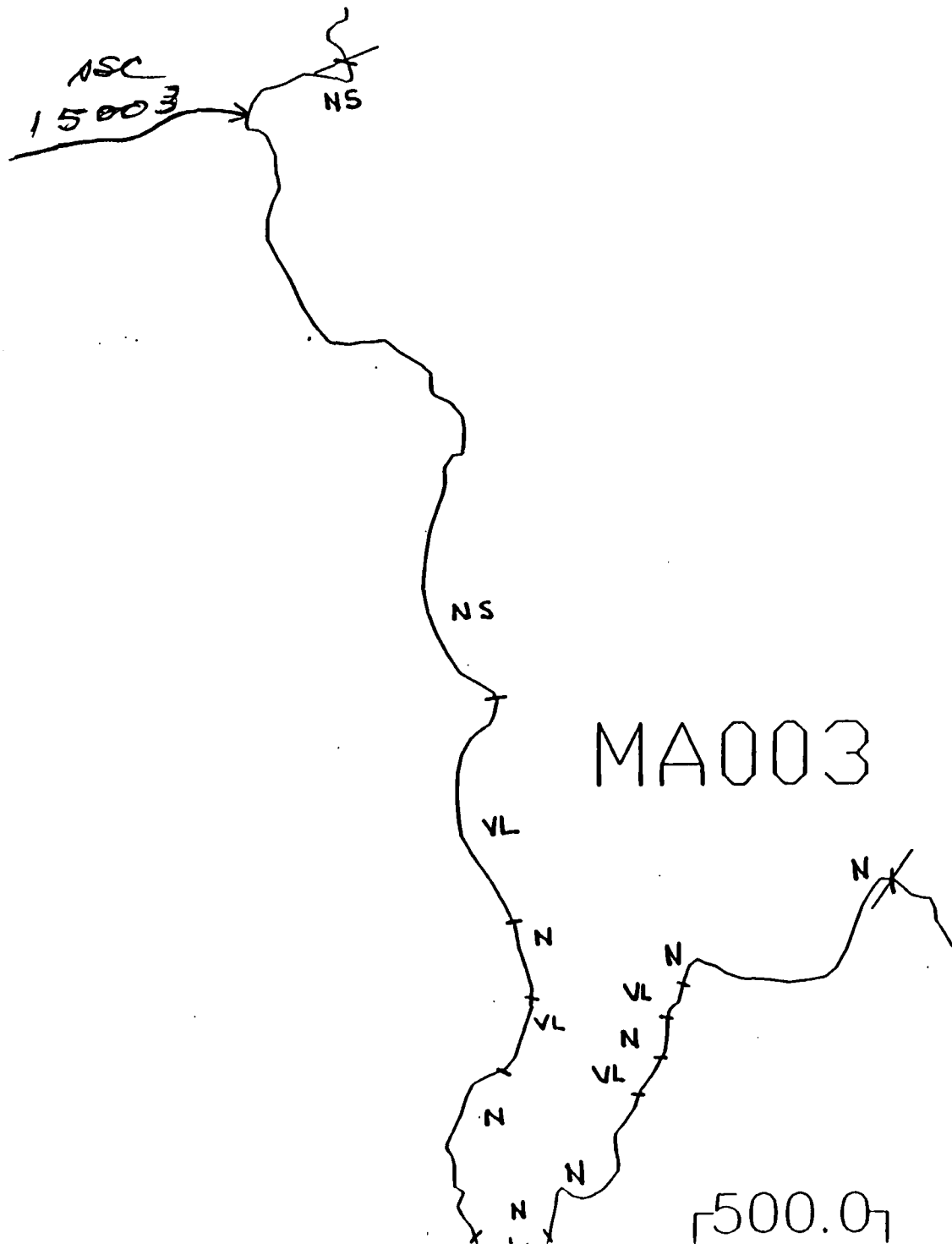
TAKEN BY: RICK GUSTIN

INITIALS: _____

ROLL #: 89RLG009V FRAME #: 37

EVIDENCE ID#: 10212

ACE 6331632/B



OILING	
H	Heavy
M	Moderate
L	Light
VL	Very Light
N	None
NS	Not Surveyed
Distance In Meters	



ACE 6331633
+ / AC

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE 5/27/89

SHORELINE SEGMENT MA-3

LOCATION: (see enclosed map) Mainland - Foul Bay

ADEC NO. _____ SHORELINE ASSESSMENT DATE: 5/23/89

Recommended Cleanup Activity(ies): If the technology is available, light to moderate concentrations of oil in the storm berm should be cleaned. Locally moderate concentrations of oil/mousse in pebble beaches should also be cleaned by small scale operations if this is possible. There is insufficient oil on most rocky headlands to warrant large scale cleanup activities. If cleanup is to be undertaken, detailed mapping of the areas with concentrations of oil will be required. Hand harvest heavily contaminated/dying fucus.

Priorities Considerations:

- 4A to locally 3A

Ecological Constraints (from site survey):

- Clean only high intertidal zone and above on rock outcrops.
- Protect lower intertidal zone and subtidal zone along beaches.
- Protect stream channel (above SP zone) at southeast corner of Foul Bay.

Archeological Constraints (from site survey):

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

Douglas R. Regier
State Historic Preservation Officer *

Date: 5/29/89

EXXON: _____

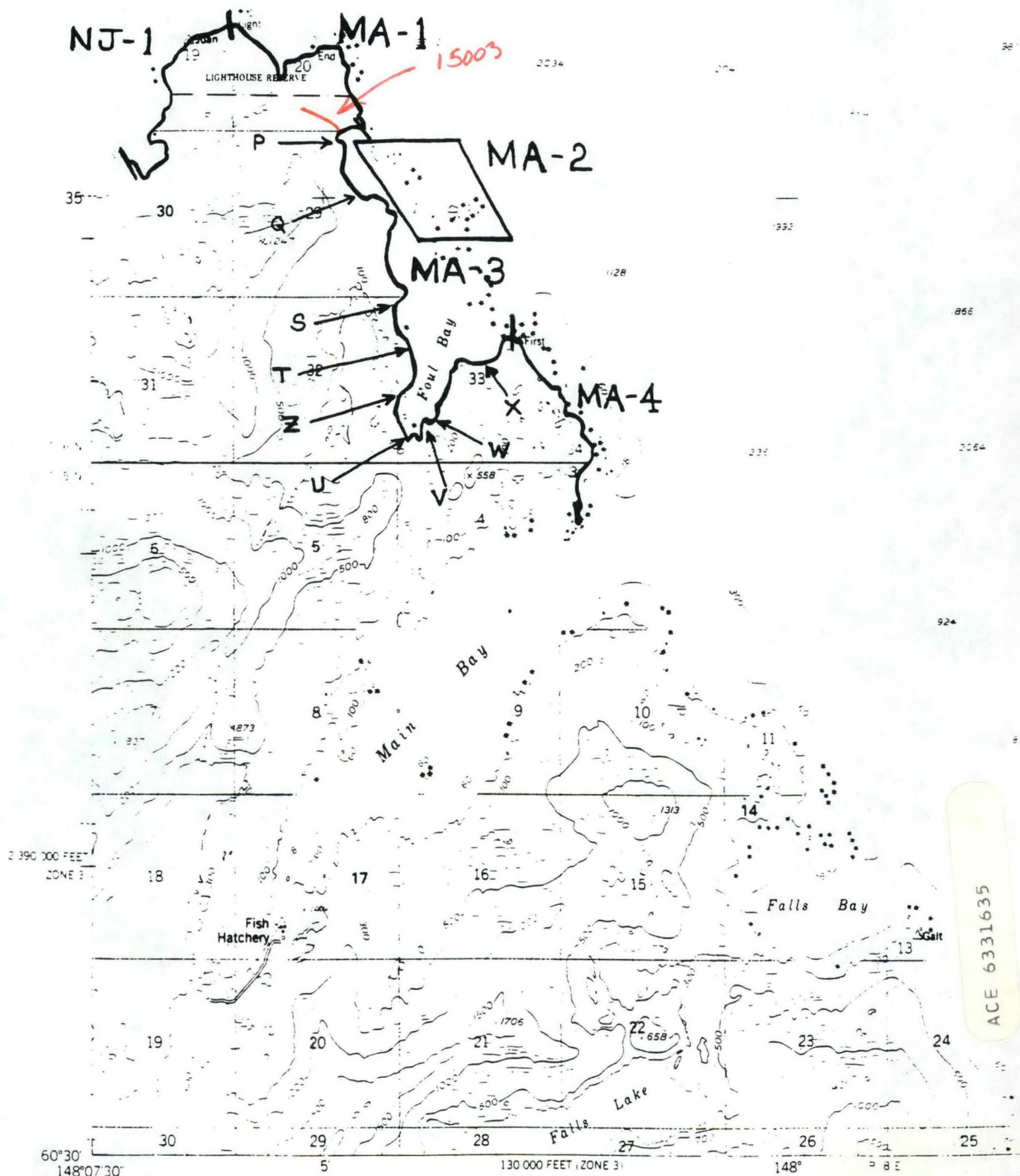
Date: _____

FOSC: _____

Date: _____

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

P R I N C E



ACF 6331635

DOCUMENTATION:

MA-3

Map/Aerial photo marking segment boundaries _____

VTR: Y/N Tape Number(s) _____

Photography: Y/N Roll Number(s) _____

Sample Numbers Collected: _____

(version 5/02/89)

SHORELINE CLEANUP PROGRAM

DATE MAY 23/89

SHORELINE SEGMENT MA - 3

LOCATION: (see enclosed map) MAINLAND: FOUL BAY

ADEC NO. _____ SHORELINE ASSESSMENT DATE: MA - 3

Recommended Cleanup Activity(ies):

- IF ^{the} technology is available, light to moderate concentrations of oil in ^{the} storm berm should be cleaned. Locally moderate concentrations of oil ~~in~~ /mousse in pebble beaches should also be cleaned ~~if~~ by small scale operations if this is possible. There is insufficient oil on most rocky headlands to warrant large scale

Priorities Considerations: clean-up activities. If clean-up is to be undertaken, detailed mapping of the area with ~~oil~~ concentrations of oil will be required. Areas with worst heavily contaminated areas.

4A to locally 3A

Ecological Constraints (from site survey):

Clean only HITZ and ABOVE on ROCK outcrops
protect LITZ & SUBTIDAL zone along beaches
protect stream channel (above SP zone) at SE corner

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: _____

EXXON: _____

Date: _____

FOSC: _____

Date: _____

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

SHORELINE OIL EVALUATION

MAY 21/89

11:30 -

MAY 22/89

11:00 → 13:00

MIKE MILES [O.G.]

MARTY BOZEMAN

Date: _____ / Time: _____

Observer: RICK REANIERSurveyed From: Foot/Boat/Helio/Plane

Weather: Sun/Cloud/Rain/Snow/Fog

LOCATIONLOCATION MAINLAND: FOUL BAYSEGMENT NUMBER MA-3LENGTH OF SHORELINE SEGMENT: 5600 mACCESS: Foot/Vehicle/Boat/Barge/Helio/Float Plane

Numerous rocks occur along this section of coast. There is substantial Seich to the east and large waves must be expected.

SHORELINE:Shoreline Type: SPI/BEA/COV/HLD/STRTSlope: LANG/HANG/VERWave Exposure: High/Med/LowSediment: B 10 % / C 10 % / P 20 % / G 10 % / S % / M % / R 50 %Drift Debris on Beach: Yes/No

Supra/Upper/Mid/Lower Type

logs and
drifted sea
weed

OILDegree of Oiling: Heavy/Moderate/Light/No Oil/UnobservedArea of Beach Impact: SU / SP / H / M / LContinuous: Y/N % of Segment 80% Width of Band: 0.02 → 120 m

Sporadic: Y/N % of Segment _____

Est. Oil Thickness where > 1cm: N/A cm Est. Oil Penetration: 0 to > 30 cmPooled Oil: 0 % "Free" Oil: 0 % Coated: H 5 % / M 10 % / L 50 %Fresh 0 % Mousse 25 % Tar Formation: 10 %Drift Debris Oiled ? Yes/No Supra/Upper/Mid/Lower Amount: H/M/L/

Comments:

SEE ATTACHED SHEET

minor amounts
occur locally see
detailed notes

NOTE: ROCKS ALONG THIS SECTION OF COAST
PRESENT A HAZARD TO BOATS ENGAGED
IN CLEAN-UP ACTIVITIES

MAY 21/22, 1989
MAINLAND MA-3

M. MILES
PAGE 1 OF 7

COMMENTS

This long section of coast ~~1722~~ contains a wide diversity of shore zone conditions reflecting the variation in wave exposure. This section of coast appears to have been initially ~~was~~ contaminated with at least moderate quantities of oil. In exposed rocky headland much of this material has been cleaned by wave action. However in areas of pebble beaches (which occur commonly in this area) oil and mousse have ~~been~~ lightly to moderately contaminated portions of the mid 172 ~~172~~ through to ~~with~~ locally well developed storm berms. These deposits are however generally not discernable unless the beach is ~~excavated~~ dug into as wave action has frequently cleaned ~~most of~~ the surface sediments. In order to reliably map the distribution of oiled material along this segment, it will be necessary to walk the entire shore ~~and~~ sampling subsurface material at frequent intervals. Large scale mapping ^{or air photos} will also be required in order to portray this information.

Continued on Page 2

MAY 21/22, 1985

MAINLAND MA-3

M. MILES

PAGE 2 OF 7

COMMENTS ON SPECIFIC BEACH SITES

SITE P

MAY 21 11:30

Boring rain

- North end of Bay - sheltered cove
- Cobble^{30%} / pebble^{30%} / rock 30% / boulders 10%
- light continuous oil coating, penetration < 5cm
- on mid to high ITZ
- High Tide (storm berm consists of pebbles + sea weed drift - moderately to heavily oiled with tar (surface) and mousse (at depth).
- lower elevation drift wood (in storm berm) in moderately oiled
- heaviest mousse and tar deposits occur in lumps up to 5 m long. These lumps could possibly be picked up by hand, washed, and the pebbles replaced.
- width of oiled beach > 16 m

MAY 21/22, 1989
MAINLAND MA-3

M. MILES
PAGE 3 OF 7

COMMENTS ON SPECIFIC BEACH SITES CONT

SITE Q north Pebbles 50% cobbles 20% boulders 20% rock 10

MAY 22/89
11:00
cloud

high wave exposure

- very light sporadic coatings of oil over mid to

HIGH ITZ

- Contaminated area > 22 m wide, due to ~~low~~ small amount of oil, cleaning likely not warranted
- light oil coatings +/- mousse in storm berm no surface expression, penetration at least 30 cm - cleaning would likely be beneficial
- light continuous 'bath-tub' like rings on exposed rock headlands extends 1.5 m ± vertically does not warrant cleaning

← back backst

SITE Q south • Pebble / Cobble / boulder high angle beach with

MAY 21/89

12:15

pouring rain

- drift logs on ~~high end~~ storm high had not oiled
- light oil coatings from mid to High ITZ
- no tar or mousse in seaweed drift or in pebble beach.
- moderate to high exposure
- insufficient oil to justify clean up activities

MAY 21/22, 1989
MAINLAND MA-3

M. MILES
PAGE 4 OF 7

Comments on SPECIAL BEACH SITES cont

SITE S

MAY 22/89

11:15

cloud

- Boulder beach on north inside edge of Foul Bay (protected to east + north from wave attack)
- light to moderate for cooling over 15 to 20 m wide band
- intermittent light "bath-tub" rings on rocky headland

SITE T

MAY 22/89

- rock 75% boulder 25%
- moderate to high exposure
- tar under boulders and intermittently on surface through mid to high ITZ
- 50 m to to west
 - 50% pebbles, 25% rock 25% cobbles
 - very light oil and mousse in storm berm
 - Sucus in sheltered rock pools heavily oiled

MAY 21/22, 1989

M. MILES

MAINLAND MA-3

PAGE 5 OF 7

Comments on Specific Beach Site cont.

SITE Z • small stream and waterfall

MAY 22/89 • oil line on rocks ~ 2 cm high
rock and boulder beach

SITE U • small bay at west end of Foul Bay

MAY 22/89 • pebble / cobble / boulder beach with headland
of rock and boulder

• light to moderate tar deposits on lee
(west) side of boulder on south side of
bay, vertical extent 2 m, width ~ 4 to 6
m., no penetration.

• on north side of bay - very light coatings
of oil on lee side of rocks, 95% tar 5% mousse
• 1 tar ball on beach

• small stream core in on west side of bay

SITE V

MAY 22/89

• Adjacent bay east of U

• boulder rock beach on west end

• light to moderate oil coatings

• South side - rock + boulder beach - small
patches of tar only

MAY 21/22, 1989
MAINLAND MA-3

M. MILES
PAGE 6 OF 7

Comments on Specific Beach Sites can't

SITE W
MAY 22/89

- Southern most bay on west end of Foul Bay
- pebble beach between rocky headlands
- small stream with salmon ~~bone~~ (?) bone
- berm of mid ITZ on east (lee or sheltered) side of bay. has interstices filled with light to moderate coatings of oil and tar. [size 8 m wide, 1-1.25 m high and 30-40 m long]
- further to east - patches of tar and mousse on pebble/cobble/rock shore
- ~~drifted~~
- wave cut rock beach on south side of Bay

SITE X
MAY 22/89
12140

- by sign "Schoonmaker 6/88" - small steamers
- most southerly beach in Foul Bay
- 1-2 m high dam of light oil on rocky headland
- Cobble/pebble/sand beach
- high storm berm has light coatings of mousse and oil. mid to high ITZ also lightly oiled - width of oil at least 13 m heaviest concentration in lee of rocky headland.

on mid-beach

ACE 6331644

MAY 21/22 1989
MAHGLAND MA-3

M. MILES
PAGE 7 OF 7

Comments on Spec 2. Beach Site, etc.

12 X 12
May 22 1989
11-3
Soc +

- Insufficient oil on beach to warrant cleaning - Shore berm could however be periodically cleared - appropriate technology to evaluate
- logs on beach are not oiled, small oiled fish net (full of rocks) on east end of beach should be removed.

DOCUMENTATION:

m A 3

Map/Aerial photo marking segment boundaries _____

VTR: Y/N Tape Number(s) _____

Photography: Y/N Roll Number(s) _____

Sample Numbers Collected: _____

ECOLOGICAL EVALUATION

LOCATION: Mainland Foul Bay SITE: _____ OBSERVER: M. Bozeman
 LOCATION PREFIX: MA SEG. NO.: 03 LENGTH: 5600 (M)
 DATE: 5 Feb 89 TIME (HHMM): 11:30 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
Varies w/Location

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

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: SPARSE to NO biota on gravel/cobble beaches
Intertidal organisms generally abundant only on rock outcrops and boulder surfaces

CLEANUP PRECAUTIONS: Clear only HITE of rock outcrops
Protect LITZ and subtidal zone along beaches
Protect stream channel at SE corner Foul Bay - ABOVE SPZ

MAMMALS: Otters 10 Harbor Seals 6 Sea Lions _____ Whales _____
 Other _____

BIRDS: 2 Eagles

GENERAL OBSERVATIONS: most oiling in HITE & ABOVE - Lt to mod
Mostly ABOVE biota

(version of 4/29/89)

CULTURAL RESOURCE EVALUATION

Date 5-21-89 5-22-89 Location Foul Bay north to Lighthouse reserve boundary Site

Location Prefix ~~MA~~ MA Segment # ~~MA-2~~ MA-3 Length 5600 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 no to moderate oil / excellent visibility

Width of beach zone surveyed 0-20 m Tree fringe surveyed 0-10 m

Cultural resources observed in beach zone (AHRS code) NONE

Cultural resources observed in tree fringe (AHRS code) CBN

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

Shore Profile High angle gravel beaches to rock walls.

Fresh Water Sources A stream enters Foul Bay

Sea Exposure Exposed to the east

Access/Safety Easy access / no safety considerations

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

ACE 6331648

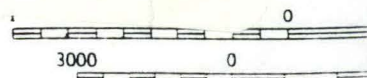
Observer(s) R. Reanier

Time survey started 1000 5-21-89 0900 - 5-22-89 Time survey ended 1200 5-21-89 1230 5-22-89

Cultural resource considerations/restraints:

If heretofore undiscovered cultural materials are
discovered during cleanup, contact Exxon
archeologist C. Mobley immediately. Security
personnel will insure that workers do not
disturb recently abandoned fisherman's cabin.

Generally light &
moderate oil,
~~Recess~~ Ranges
from no oil to
local concentration
of heavy oil



ACE 6331650

Falls Bay

MA-3
Foul Bay
(Mainland)

MA-2

MA-1

MA-4

MA-5

MA-6

MA-7

MA-8

MA-9

MA-10

1992

1854

1940

2024

2000

26

19

