

## BROWN AND ROOT ENVIRONMENTAL MEMORANDUM

TO: DISTRIBUTION

FROM: BILL STARKEL/KENT CUBBAGE

SUBJECT: GOSS GOVE FOLLOW-UP/MAMACOCKE COVE HABITAT EVALUATION  
CTO No. 275, FORMER GOSS COVE LANDFILL FS/PRAP/ROD  
NAVAL SUBMARINE BASE NEW LONDON (NSB-NLON), GROTON, CT

DATE: 18 DECEMBER 1996

Habitat/receptor evaluations were performed at Goss Cove, NSB-NLON, and Mamacoke Cove on December 3, 1996 and December 4, 1996, respectively, in support of FS activities for Goss Cove. The Goss Cove investigation was performed to supplement a previous habitat/receptor evaluation performed by B&RE at that site on October 22, 1996. Investigations were performed by Dick Conant (NSB-NLON-Environmental) and Stan Conti (B&RE-Pittsburgh). The investigation of Mamacoke Cove was witnessed by Mr. Mark Lewis of the Connecticut Department of Environmental Protection (CTDEP).

### **Goss Cove, Tuesday December 3, 1996, a.m.**

#### Activities:

Dick Conant and Stan Conti took water quality measurements at nine locations in Goss Cove from a small jon boat. Six sampling locations were located in shallow areas near each bank and three locations were located in the middle of the waterbody. Sampling locations correspond to those used during initial investigations at Goss Cove on October 22, 1996. Water quality parameters included temperature, pH, salinity, conductivity, turbidity, and dissolved oxygen. Measurements were taken at the water surface and near the bottom of the water column. Depth and light transmittance measurements were taken at each sampling site using a Secchi disk. In addition, water quality parameters were taken at three locations in the Thames River across the railroad bed from Goss Cove. Thames River water quality measurements were taken at the water surface.

#### Findings and Conclusions:

Depths approximately 15 feet from shore averaged approximately 3-4 feet, while depths in the middle of the cove averaged 4-6 feet. Dissolved oxygen concentrations were relatively constant at all sampling locations, averaging about 10 mg/L at the surface and 10-13 mg/L at the bottom. For the most part, dissolved oxygen, temperature, salinity, and pH values were higher at the bottom than near the surface. For the Secchi measurements, depth to disappearance and reappearance averaged approximately 3.5 feet. In the Thames River, dissolved oxygen readings were similar at all three sampling locations (approximately 11 mg/L). Salinity was 0.22% at all sites, which is lower than most readings in the cove.

### **Mamacoke Cove, Wednesday December 4, 1996, a.m.**

As shown on Figure 1 Mamacoke Cove is located directly across the Thames River from Goss Cove. Mamacoke Cove is divided into an inner and outer cove by a railroad embankment. The outer cove has full and open communication with the Thames River and the inner cove communicates with the outer cove via a box culvert which penetrates the railroad embankment. The habitat/receptor evaluation was performed on the inner cove.

### Activities:

Dick Conant and Stan Conti took water quality measurements from a small jon boat at nine locations in the inner portion of Mamacoke Cove. Water quality parameters included temperature, pH, salinity, conductivity, turbidity, and dissolved oxygen. Measurements were taken at the water surface and near the bottom of the water column. Depth and light transmittance measurements were taken at each sampling site using a Secchi disk. In addition, water quality parameters were taken at three locations on the Thames River side of the railroad bed. Thames River water quality measurements were only taken at the water surface. Several pictures of Mamacoke Cove and the surrounding area were taken, and observations of physical features were recorded. Also, sediment samples were taken with a Ponar sampler at all sampling locations. Qualitative observations of sediment characteristics and benthic biota were recorded. Dipnetting for near-shore biota was also performed around the cove perimeter.

### Findings and Conclusions:

The tidal pond connected to greater Mamacoke Cove is constricted by the railroad bed, and is approximately 0.5 acres in size. Upland second-growth forest surrounds the north, west, and south portions of the cove, and is dominated by beech, red oak, and black birch. Some high rocky ledges are also present to the north and west. The pond is connected to greater Mamacoke Cove and the Thames River through a concrete box culvert under the railroad bed. Good tidal exchange occurs through the culvert. A small spring-fed stream enters the tidal pond to the west. The stream supports a small wetland (0.25 acre) along the western reaches of the tidal pond, which is dominated by *Typha*. The perimeter of the pond supports a narrow band of *Spartina*. The southeast corner of the tidal pond has a 0.25 acre salt grass meadow with invasive Bittersweet vines.

Depths at all sampling locations averaged approximately 2-3 feet deep, with the exception of the sampling location in the middle of Mamacoke Cove, which was 4.5 feet deep. For the most part, dissolved oxygen concentrations were higher near the surface. Concentrations averaged about 9-10 mg/L and 7-10 mg/L at the surface and bottom, respectively. Salinity, temperature, and pH values were all generally higher at the bottom. Dissolved oxygen measurements in the river were comparable to levels measured in Mamacoke Cove near the surface, and salinity in Mamacoke Cove was generally higher than that observed in the river. The Secchi disk was visible at the bottom of Mamacoke Cove at all sampling locations, indicating that an appreciable amount of light penetrates to the bottom substrate.

All sediment samples collected in Mamacoke Cove had a strong sulfide odor, and consisted of fine, black, organic silt. Some leaf litter was observed in most samples. All sediment samples but one contained live benthic invertebrates, including numerous softshell clams, amphipods, and chironomids. Dipnetting produced live softshell clams and Atlantic ribbed mussels along the shore (near the box culvert). Unidentified marine shrimp and live barnacles were noted attached to fallen branches. No minnows were observed or captured, although they were noted near the box culvert during a November visit by Dick Conant.



GOSS COVE & MAMACOCKE COVE  
 GOSS COVE LANDFILL FS/PRAP/ROD  
 NAVAL SUBMARINE BASE NEW LONDON  
 GROTON, CONNECTICUT

K:\GIS\7248\VLG.APR 23-DEC-96 MJJ

FIGURE 1

  
 Brown & Root Environmental

07011401Y

ATTACHMENT 1: Inspection Photographs

ATTACHMENT 2: Copy of B&R Environmental Field Inspection Log

**DISTRIBUTION:**

Mark Evans - U.S. Navy, NORTHDIV Environmental (3 copies)  
Andy Stackpole - U.S. Navy, NSB-NLON Environmental (1 copy)  
Dick Conant - U.S. Navy, NSB-NLON Environmental (1 copy)  
Kymberlee Keckler - U.S. EPA Region I (1 copy)  
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**ATTACHMENT 1**  
**INSPECTION PHOTOGRAPHS**



Box culvert between Mamacoke Cove tidal pond and greater Mamacoke Cove/Thames River.



Spring fed stream that enters Mamacoke Cove tidal pond on the west side of the pond.

07011402Y



View from south shore of Mamacoke Cove tidal pond looking northwest.



View from south shore of Mamacoke Cove tidal pond looking west.

07011403Y



View from northwestern shore of Mamacoke Cove tidal pond looking east out to the Thames River.



View from northeast shore of Mamacoke Cove tidal pond looking west.

07011404Y

**ATTACHMENT 2**

**COPY OF B&R ENVIRONMENTAL FIELD INSPECTION LOG**

TITLE GOSS COVE  
PAGE 2 OF 2

PROJECT NO. 7428  
BOOK 2369

Work continued from Page 1

- FEDEX STOPPED FOR  
PICK UP

3:30pm LEFT FOR AIRPORT

4:30pm - ARRIVE AT AIRPORT

5:48pm - DEPART FOR  
PITTSBURGH. KATHY  
TRAPP IS ON SAME  
FLIGHT. SHE WILL  
GATHER MEMO INFO.  
AND E-MAIL ME INFO.

7:40pm - ARRIVE IN  
PITTSBURGH.

~~VOID~~

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605

Work continued to Page

SIGNATURE

DATE

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WITNESS

DATE

TITLE NSB GOSS COVE  
MON DEC 2 1996

PROJECT NO. 7428  
BOOK 2369

Work continued from Page AT SITE SIC

AM: CLOUDY COLD

PM: PARTLY CLOUDY, WINDY, COLD

SEE NB 9288 FOR MORE INFO (NSB)  
JOB NO 4626.

SPENT ~ 2 HRS FOR JEAN LUCS JOB  
REC'D EQUIP - NO DIP NET - LOST IN  
TRANSPORT ?

LOAD VAN W/ EQUIP - TALK TO DICK C.  
ABOUT CHANGE IN PLAN - WILL DO  
GOSS COVE WORK TUES, SINCE ITS CLOSED

WENT AFTER SUPPLIES, MADE UP  
AND PAINTED "SECCHI" DEVICE FOR  
SECCHI READINGS IN COVES

~~VOID  
SITE~~

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605

Work continued to Page

SIGNATURE

DATE

WITNESS

DATE

9

TITLE NSB GOSS COVE  
TUE DEC 3 1996

PROJECT NO 7428  
BOOK 2369

Work continued from Page ATGITE: SDC

AM: SUNNY, COLD  
PM: " " "

ALSO REFER TO NB 2288 - JOB NO 4626.

1145: CAVIS HORIBA - ALSO WAITING FOR DICK C. TO GET BACK ON SITE

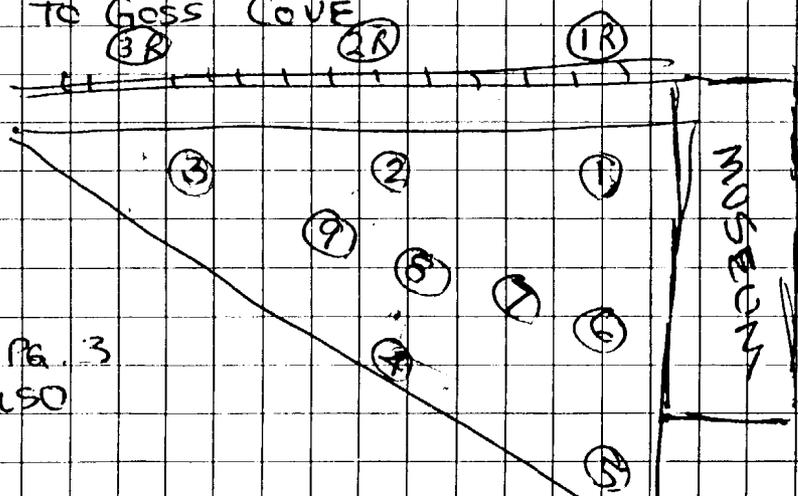
1200 DICK ARRIVES

1230 LUNCH

1300 BACK AT BLDG 1660 -

1300 LOAD UP SMALL BOAT - GO

TO GOSS COVE



SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605

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SIGNATURE

*J Conti*

DATE  
12/3/96

DATE

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WITNESS

WINDS at 10-15 K Sunny Cold (45°F) Heavy Rain (2")  
on 12/2  
TITLE NSB GOSS COVE 1400h PROJECT NO.  
TUES (CONT) Near High L. BOOK

Work continued from Page

AT GOSS COVE

HERE TO RETAKE WATER QUAL. PARAM  
& TO USE "SECCHI" DEVICE

	PH	COND	TURB	DO	TEMP	SAL
1 B	8.44	11.0	5.0	10.89	9.1	1.10
S	7.80	5.66	9.0	10.51	7.3	0.30
2 B	8.36	23.3	39	13.97	9.1	1.37
S	7.71	6.91	5.0	10.62	7.2	.37
3 B	7.40	19.2	6	12.33	8.7	.27
S	7.56	7.34	4	10.29	7.2	.40
4 B	8.59	23.8	37	12.04	8.3	1.38
S	7.48	7.18	4	10.78	6.9	.34
5 B	9.01	7.61	5	13.30	7.5	.06
S	7.60	7.03	4	10.78	6.9	.03
6 B	9.19	19.7	29.0	11.20	8.1	1.15
S	7.43	6.23	6.0	9.50	6.8	0.32
7 B	8.84	24.6	28.0	11.25	8.4	1.44
S	7.42	6.92	5	10.78	6.7	.35
8 B	8.89	18.80	10	11.22	8.0	.06
S	7.35	7.07	5	10.77	6.5	.05
9 B	8.75	15.5	11	10.92	7.4	.8
S	7.75	6.78	4	10.63	6.7	.35

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605

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SIGNATURE

*J Conti*

DATE  
12/3/96

DATE

WITNESS

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TITLE NSB GOSS COVE  
TUE (CONT)

PROJECT NO. 7428  
BOOK 2369

Work continued from Page			
(TIME)	DEPTH DISAPPEARS	BOTM	REAPPEARS
1	<del>2.2</del> 3.4 Resample	3.0 4.3	<del>2.0</del> 3.4
2	STILL VIS AT 3'	3.0	-
3	3.5	4.5	3.5
4	3.5	4.2	3.5
(1448) 5	3.3	3.8	3.3
6	3.2	3.9	3.1
7	3.7	6.0	3.2
8	3.8	6.0	3.5
(1530) 9	3.9	4.5	3.8

SECTION 1 RDS  
@ GOSS COVE

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605

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WITNESS

*SJ Conti*

DATE

12/3/96

DATE

TITLE NSB GOSS COVE  
TUE (CONT)

PROJECT NO. 7428  
BOOK 2369

Work continued from Page							PAGE 10
River Samples (Refer to Map)							Surface only
IR	PH	COND	Turb	DO	Temp	Sal	
	7.46	4.52	10.0	11.06	6.8	.22	1540
2A	7.36	4.50	11.0	10.95	6.7	.22	1545
3A	7.33	4.45	12.0	11.17	6.8	.22	1550
1600 LOAD BOAT INTO VAN TAKE UP TO BLDG 66							
1030 LW BLDG 66 - GO TO TANK FARM. CANT FIND SURVEYORS BUT ALL 4 LOCATIONS ARE MARKED. GO TO EACH ONE AND MAKE SURE THEY SEEM OK.							
1800 LW SITE							
JEAN LOC 5							(11)
TANK FARM 6							

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605

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TITLE NSB Goss Cove

PROJECT NO. 7428

WED DEC 4 1996

BOOK 2369

Work continued from Page

AT SITE SJC

AM PARTLY SUNNY COLD 40°F  
 PM CLOUDY COLD

0700 AT SITE - CHECK AT TANK FARM  
 FOR SURVEYORS - NOT ON SITE

0800 AT BLDG 66 - ?

GEOPROBE EQUIP. AT BLDG 66

- 1 - CONCRETE BIT W/ 2' EXTENSION
- 16 - EXT RODS = 24" LONG
- 2 - MACRO CORE SAMPLE TUBES NO-DRIVE  
 (TUBES ONLY (2" OD 1 3/4" ID) SHOE)
- 50 - 4' PLASTIC LINERS
- 7 - 1 1/2" EXT RODS
- 8 - 1' EX RODS
- 2 - DRIVE HEADS
- 1 - PUW PLUG
- 1 - THREADED SUB
- 1 - DRIVE PT - FITS TO CORE TUBE BOTTOM
- 1 - CONE SOLID POINT
- 2 - CORE TUBE PUW PLUGS
- 7 - 1" DRIVE PTS
- 4 - DRIVE SHOES

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605

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TITLE NSB Goss Cove

PROJECT NO. 7428

WED (CONT)

BOOK 2369:

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CRFS CALIB HORIBA - pH = 3.99 (SOL OF 4)  
 TURB = 0 SJC

MAMACORE COVE  
 SECURITY

	DEPTH DISAPP	BOTM	DEPTH REAPPAR
①	2.3 Visible	2.3	2.3 Visible
②	Visible	3.5	Visible
	Visible	2.2	SJC Visible
③	Visible	2.2	Visible
④	Visible	3.3	Visible
		1	
⑤	Visible	4.5	Visible
⑥	Visible	3.2	Visible
⑦	Visible	3.5	Visible
⑧	Visible	3.3	Visible
		3.1	
⑨	Visible	3.1	Visible

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605

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TITLE Mammal Cove PROJECT NO. 17  
 Temp 4.0 Calm wind BOOK

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	PH	COND	TURS	DO	TEMP	SAL
B	7.65	17.5	2.0	9.71	9.2	1.01 (0.35)
S	7.58	8.0	4.0	10.13	6.3	.42
B	7.43	25.7	4.0	5.01	10.4	1.48
S	7.50	5.3	3.0	9.47	5.0	0.27
B	7.81	21.2	4.0	8.43	9.8	1.22 (10.5)
S	7.46	5.00	2.0	9.85	4.9	.26
B	8.32	25.1	4.0	10.30	10.1	1.51 (10.5)
S	7.75	4.17	2.0	11.05	4.2	.22
D	8.28	25.8	3.0	9.11	10.2	1.55
S	7.80	4.42	1.0	10.67	4.7	0.23
B	8.24	25.6	4.0	9.01	10.4	1.54
S	7.59	7.58	4.0	9.87	6.2	0.41
D	8.08	25.8	7.0	7.95	10.5	1.55
S	7.71	8.23	3.0	9.01	6.5	.44
B	8.03	25.1	5.0	7.50	10.2	1.49
S	7.47	5.54	2.0	10.59	4.9	.25
B	8.40	25.1	5.0	10.24	10.3	1.55
S	7.76	4.19	2.0	9.53	5.2	.23

Work continued to Page

MAMACOKE COVE ROGS

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605

SIGNATURE

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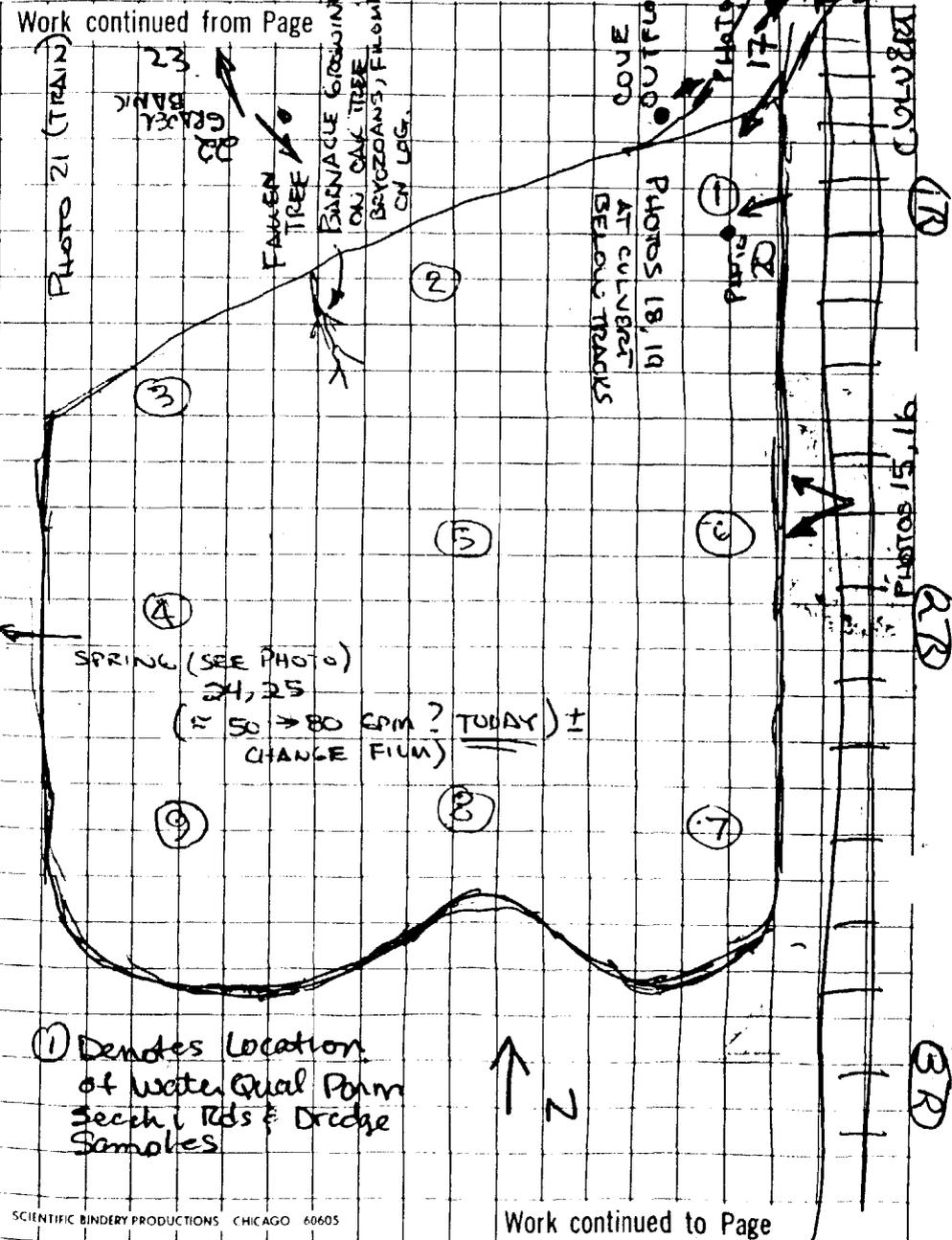
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WITNESS

DATE

TITLE OUTCROP

PROJECT NO. BOOK



① Denotes location of water qual point Secchi Rds & Dredge Samples

SIGNATURE

SJ Conti

17

WITNESS

DATE

12/4/16

DATE

17

TITLE NSB Goss Cove (MAMACOKE) PROJECT NO.

WED (CONT)

BOOK

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PONAR DREDGE / SIEVE BUCKET DESCRIPTION

- (0930) ① STRONG SULFIDE ODOR - FINE ORGANIC SILT  
LITTLE LEAF LITTER - SMALL CASTRIPED SHELL.  
NO OTHER LIFE OBSERVED - COLOR DARK  
BRN TO BLACK.
- (1000) ② STRONG SULFIDE ODOR - FINE SILT - VERY  
LITTLE LEAF LITTER - "MUCKY" BLACK IN COLOR  
SOFT SHELL CLAM SHELL 1/2 OF BIVALVE -  
NUMEROUS SMALL 1/4" LONG AMPHIPODS (LIVE)
- (1015) ③ SULFIDE ODOR - EXTENSIVE LEAF LITTER,  
SAND, SILT AND SMALL GRAVEL. LIVE SOFT  
SHELL CLAM, AMPHIPODS, BLACK IN COLOR  
SOIL IS
- (1045) ④ STRONG SULFIDE SMELL. BLACK SILTY SAND  
SOFT SHELL CLAMS. SOME LIVE, SOME SHELLS  
SOME LEAVES AND TWIGS. SMALL MARINE  
WORM (CHR) RED
- (1035) ⑤ STRONG SULFIDE ODOR - BLACK FINE SILT - VERY  
LITTLE LEAF LITTER - NUMEROUS RED MARINE  
WORMS - LIVE SOFT SHELL CLAMS
- (1045) ⑥ V. STRONG SULFUR ODOR - BLACK FINE SILT  
AND LEAF LITTER - RED MARINE WORMS  
NO OTHER LIVE ORG. OBSERVED AT THIS  
LOCATION

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605

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TITLE NSB Goss Cove (MAMACOKE) PROJECT NO.

WED (CONT)

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- (1100) ⑦ STRONG SULFUR ODOR - BLACK FINE SILT, <sup>VERY</sup>  
DIFFICULT TO SIEVE OUT OF BUCKET - AMPHIPODS  
PRESENT (LIVE). LIVE <sup>SOFT SHELL</sup> CLAMS, FEW RED MARINE  
WORMS.
- (1115) ⑧ STRONG SULFUR ODOR - BLACK FINE SILT - VERY <sup>VERY</sup>  
LITTLE LEAF MATTER - TR CLAP? TR OF SEA  
LEAVES (ULVA LACTURUS) NUM. AMPHIPODS  
LIVE SOFT SHELL CLAMS AND SHELLS. SOME  
FINE SAND - NO RED WORMS NOTICED.
- (1130) ⑨ STRONG SULFUR ODOR - BLACK V.F. SILTY  
SOME LEAF MATTER, NUMEROUS AMPHIPODS  
SOME F SAND - LIVE SOFT SHELL CLAMS  
AND SHELLS 1 MARINE RED WORM  
END OF PONAR DREDGE DESCRIPTION

1200 LOAD UP BOAT & EQUIP - MARK LEWIS  
FROM STATE HERE ALSO

1235 AT BLDG 66 - NO SIGN OF DIP NET

1300 PURCHASE DIP NET THEN GO BACK  
TO MAMACOKE COVE. START TAKING  
PHOTOS - WHILE DICK C. TAKES

1345 SOME RANDOM DIP NET SAMPLES  
THE FOLLOWING IS ENTRY BY DICK

CONANT REGARDING HIS WALK AROUND  
MAMACOKE COVE WITH THE DIP NET PAGE

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605

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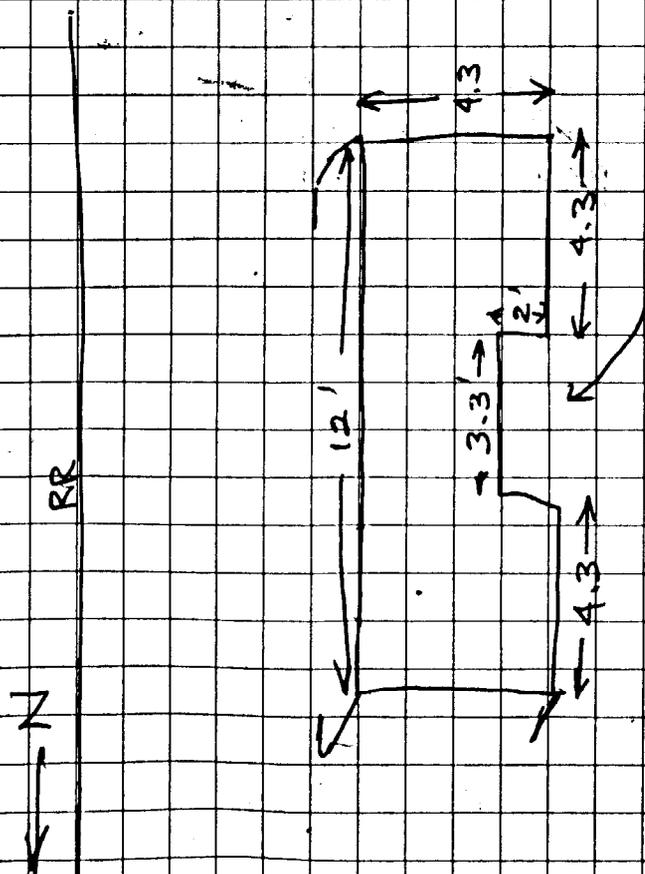
WITNESS

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(22/23) 21/22

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CULVERT @ MAMACOKE COVE AT NE  
CORNER OF COVE. ALSO SEE PHOTOS



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SIGNATURE

Sj Conte

DATE

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WITNESS

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Tidal Pond constructed by fill placed for  
train embankment. Approximate pond size is  $\frac{1}{2}$  acre  
(config estimate with polimeter) Pond depth  
varies from shallow perimeter to depths of 3'-4.5'  
in center. Perimeter of the pond is disturbed  
on east side (RR track riprap) and in the  
NE and SE quadrants (apparent borrow pit  
activity). Dry upland 2nd growth forest surround  
the pond on north, west and south (Dominates:  
Beech, Red Oak, Black birch). High rocky ledges  
located to the north and west.

Pond is connected to Greater Mamacoke Cove and  
Thomas River through a concrete box culvert leading  
under the RR tracks from NE side of tide pond.  
Culvert dimensions are 2.5' W X 1.5' H. Culvert  
does not appear restricted and has good tidal  
exchange. A spring fed fresh water  
stream enters the tidal pond in the west.  
Estimated flow on the day of investigation was  
1 cfs. Stream supports a small ( $\frac{1}{4}$  acre)  
wetland (fresh water) along the western reaches  
of the tidal pond. Fresh water wetland is  
dominated by *Typha angustifolia*.

Perimeter of the tidal pond supports a  
narrow (1-5') band of *Spartina alterniflora*

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WITNESS

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TITLE NSB GOSS COVE  
WED (CONT)

PROJECT NO. 7428  
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and *Spartina patens* in most places. SE corner of tidal pond has a 4 acre salt grass meadow with invasive Bittersweet vines

Oip netting produced soft shell clams (alive) and Atlantic ribbed mussels (alive) near the box culvert. Unidentified marine shrimp (same as that at Goss Cove) were numerous all along the shoreline. Barnacles (alive) were noted attached to fallen tree branches in the tidal pond

No minnows noted or captured, but were site on first site visit a month ago near box culvert

Shallows around pond have extensive leaf litter covering the bottom except in places where inflow/outflow channels have scoured the bottom to cobble.

1430 TAKE RDGS OF WATER QUALITY ON EAST SIDE OF RR TRACKS AT MAMACORE COVE. SEE PG. 23 FOR RDS.

1500 TAKE DICK BACK TO OFFICE THEN GO TO TANK FARM AREA TO LAYOUT SOME BORINGS.

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605

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SIGNATURE

*SJ Conrath*

DATE

12/4/96

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WITNESS

TITLE Surface Sample Only PROJECT NO. 7428  
Mamacore Cove River Side Samples (1400) BOOK 2369

Work continued from Page

	PH	Cond	Turb	DO	Temp	Sal
1R	7.21	5.42	7.0	10.82	6.4	.27
2R	7.21	5.44	8.0	10.80	6.2	.27
3R	7.21	5.27	8.0	11.35	6.0	.26

JEAN WCF JOB 7 HRS (MAMACORE COVE)  
3 HRS (TANK FARM)

REFER TO NSB 2288 - JOB NO 4626  
FOR TANK FARM WORK.

VOID  
*SJ*

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605

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SIGNATURE

*SJ Conrath*

DATE

12-4-96

DATE

WITNESS

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