

MR-HB-1-94 - SAMPLES IN NCGS  
REPOSITORY

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- #1) 14.1 - 15.6 ft.
- 2) 19.1 - 20.6 ft.
- 3) 24.1 - 25.6 ft.
- 4) 29.1 - 30.6 ft.
- 5) 34.1 - 35.6 ft.
- 6) 39.1 - 40.6 ft.
- 7) 44.1 - 45.6 ft.
- 8) 49.1 - 50.6 ft.
- 9) ~~54.1~~ 55.1 - 55.6 ft
- 10) 59.1 - 60.6 ft
- 11) 64.1 - 65.6 ft
- 12) 69.1 - 70.6 ft
- 13) 74.1 - 75.6 ft
- 14.1) 79.1 - 80.1 ft
- 14.2) 80.1 - 80.6 ft
- 15) 84.1 - 85.6 ft
- 16) 89.1 - 90.6 ft
- 17) 94.1 - 95.6 ft

~~80.1 - 80.6 ft~~  
~~80.1 - 80.6 ft~~  
~~80.1 - 80.6 ft~~

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 GEOTECHNICAL UNIT  
 FOUNDATION BORING LOG SHEET 1 OF 2

PROJECT NO. 6.099002T COUNTY MARTIN GEOLOGIC PROVINCE CP  
 BRIDGE ON -L- OVER -Y7-  
 BORING LOCATION (STA.) 386+01 OFFSET 30'LT  
 BORING NO. B1-B LT LN GEOLOGIST RL Edwards GROUND WATER 0 HRS. NM 24 HRS. 9.6  
 COLLAR ELEV. \_\_\_\_\_ DATE STARTED 8/23/94 DRILL EQUIPMENT CME 45B  
 TOTAL DEPTH 101.4 DATE COMPLETED 8/24/94 Rot-mud

ELEV.	DEPTH	BLOW COUNT			SAMP. NO.	SOIL DESCRIPTION	MOIST.	NOTES & REMARKS
		6"	6"	6"				
	0.0	1	2	3				
	4.1					TAN BRN SLT CL A-2-4	MOI 05 HARD AT 3"	
	9.1	13	12	10	SS-28	TAN BRN CLY F SDY SILT A-4/A-2-A SOFTER AT 8"	W 022 YORKTOWN AT 8"	
	14.1	1	1	1	SS-29	BRN GRAY F SDY CL SILT A-4	W 02	
	17.1	1	1	1		SAME AS ABOVE	" 02	
	24.1	1	2	2	SS-30	DK. GRAY SDY SL CL A-7-6	" 0A	
	29.1	1	2	2		SAME A-7-6	" 0A	
	34.1	2	3	3		SAME A-7-6	" 06	
	39.1	2	2	3		SAME A-7-6	" 05	
	44.1	A	5	6	SS-31	DK. GRAY SDY SL CL W/ SHELL FRAGS A-7-6	W 011	
	49.1	2	3	3		SAME A-7-6	" 06	
	54.1	3	4	4		DK. GRAY SDY SL CL / SHELLS A-7-6	" 08	
	59.1	2	3	3	SS-32	DK. GRAY SDY SL CL / W SHELL FRAGS. A-7-6	m/w 06 SILT BEGAN AT 58"	
	101.4	2	3	A	SS-33	BRN GRAY CLY SDY SILT A-2/A-6	" 07	

PRELIMINARY FOUNDATION INFO.

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 GEOTECHNICAL UNIT  
 FOUNDATION BORING LOG SHEET 2 OF 2

PROJECT NO. 6.099002T COUNTY MARTIN GEOLOGIC PROVINCE CP  
 BRIDGE ON -L- OVER -Y7-  
 BORING LOCATION (STA.) 386+01 OFFSET 30' LT  
 BORING NO. B1-B LTLN GEOLOGIST IZL Edwards GROUND WATER 0 HRS. NM 24 HRS. 9.6  
 COLLAR ELEV. \_\_\_\_\_ DATE STARTED 8/23/94 DRILL EQUIPMENT CME 45B  
 TOTAL DEPTH 101.4 DATE COMPLETED 8/24/94 Rot-mud

ELEV.	DEPTH	BLOW COUNT			SAMP. NO.	SOIL DESCRIPTION	MOIST.	NOTES & REMARKS
		6"	6"	6"				
	64.1							SILT ENDPT 62.0 HARD LAYER 62.0 - 63.0
		2	2	3	55-34	DR. GRAY SLSDY CL A-6/A-7-6	m/w	05
	69.1					SAME AS ABOVE	"	05
		2	2	3				
	74.1					SAME AS ABOVE	"	05
		2	3	3				06
	79.1							30 TONS
		2	3	6		DIC. GRAY SLSDY CL / SHELLS LAST 50' DRIVE BLK CREEK LIGNITE FRAGS, MIC.	"	09
	84.1					SIL-ORG. DIC. GRAY MIC. SLSDY CL W/ LIGNITE FRAGS.	m	26
		5	9	17	55-35	A-6/A-7-5		
	89.1					SAME	"	15
		5	7	8				
	94.1					SIL-ORG. DIC. GRAY MIC. SLSDY CL W/ LIGNITE FRAGS	"	16
		5	8	8	55-36	A-6/A-7-5		
	99.1					SAME	"	VIBATED @ 99.0
		19	36	6A		A-6/A-7-5		100'

PRELIMINARY FOUNDATION INFO.



# Clinch Valley College of the University of Virginia

College Avenue, Wise, Virginia 24293-0016

Jan. 31, 1995

Dept. Natural Sciences

Bill Hoffman  
NC Geology Survey  
4100 Reedy Creek Rd.  
Raleigh, NC 27607

Dear Bill:

I have examined the 4 core samples from the DOT boring MR-HB-1-94 from Martin county. The core is already as old as Cretaceous in the first sample (depth 80.1-80.6 ft.). Although the samples are not rich in Globotruncanid spp., the presence of rare *Gc. gagnebini* in samples 3 & 4 (depths 89.1-90.6 ft. and 94.1-95.6ft.) and forms related to *Gc. bulloides* are indicative of a middle Maestrichtian age. Other species present in all four samples which are common to the latest Cretaceous include *Globigerinelloides prairiehillensis*, *Rugoglobigerina rugosa* and *Guembelitra cretacea*. I see nothing that would make me think that the samples are as young as late Maestrichtian, and the presence of *Gc. gagnebini* should preclude them being as old as early Maestrichtian.

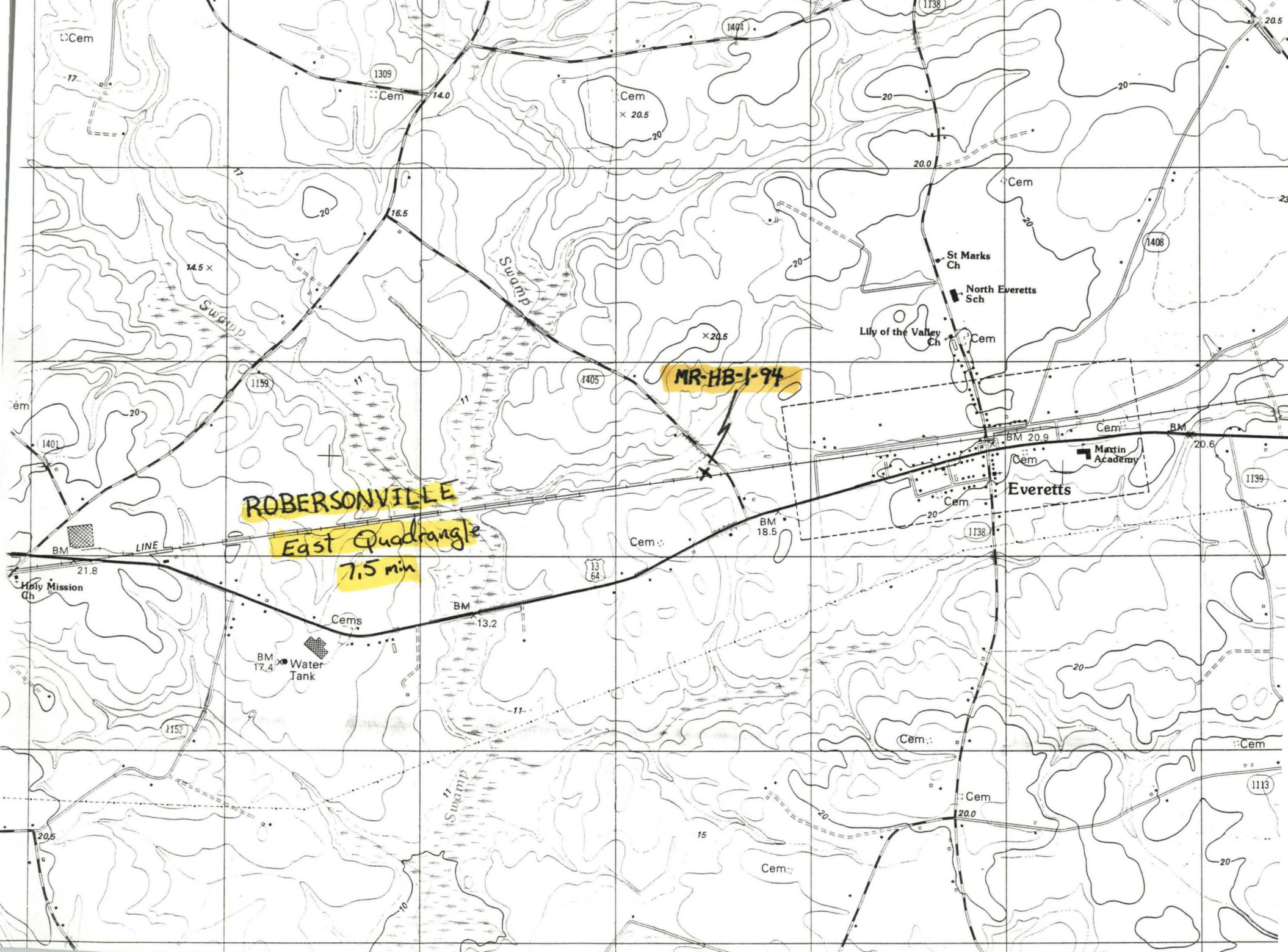
The relative proportions of benthic to planktonic species, the mix of benthic species, the low diversity of planktonics and the overall small size of the planktonics suggest a middle shelf environment of deposition, although if the waters were turbid, it may have been a deeper setting.

I will send the bulk samples back in a separate package, which should arrive shortly. Let me know if I can be of further help.

Sincerely,

A handwritten signature in cursive script, appearing to read "Robert D. VanGundy".

Robert D. VanGundy



MR-HB-1-94

ROBERSONVILLE  
East Quadrangle  
7.5 min

Swamp

Swamp

Swamp

St Marks Ch

North Everetts Sch

Lily of the Valley Ch

Martin Academy

Everetts

Holy Mission Ch

Water Tank

Cem

Cem

Cem

Cem

Cem

Cem

Cem

Cem

Cem

Cem

Cem

Cem

Cem

20.5

21.8

BM 17.4

BM 13.2

BM 18.5

BM 20.9

BM 20.6

1159

1405

1138

1139

1113

13 64

1309

1404

1138

1408

1152

-17

16.5

14.5 x

20

20

20

20

20.0

20

x20.5

20

1401

LINE

BM

20.5

15

20

20

20.5

23

20.6

20

20