

CORRESPONDENCE/MEMORANDUM

STATE OF WISCONSIN

Date: April 25, 1984 File Ref:

To: Mr. Thomas Clark, District Director
ATTN: Mr. John Biles, District Soil Engineer

From: Mr. G. H. Zuehlke
Chief Materials Engineer

Subject: MATERIALS
SOILS
SITE INVESTIGATION REPORT
Project I.D. 7600-03-00
USH 12/STH 29 over Muddy Creek
CTH E to I-94 Road
Structure B-17-99
Dunn County

Two borings and two hand probes have been made for the proposed twin box culvert carrying USH 12/STH 29, station 379+80, over Muddy Creek. Standard Penetration Tests, AASHTO T-206, were made on the borings to evaluate culvert support values and to recover samples for identification and classification. The Probes were made to delineate the depths of peaty soil. The approach fills are about 8 to 10 feet high and are built of loose to very loose brown silty sands. Beneath the fills, either displacement or excavation and removal has left a shallow layer of sand and gravel overlying loose to firm sand. White dense sandstone was logged near elevation 868. Outside the existing culvert's foundation soils, the probes indicated a peat depth of 4 feet with loose sand beneath.

The water elevation at the time of drilling, April 1984, was 874± with the stream bed at 869±. The creek is 15 to 30 feet wide, meanders, and is some 2 to 5 feet deep.

It appears that sandstone bedrock can be utilized for the culvert's foundation and no problems will exist. The shallow peat should be removed and replaced prior to fill widening.

By



C. N. Laughter
Chief Soils Engineer

CNL:dn
cc: Dist.6(3)
SWW(2)
GHZ
DLS
MOF
Soils✓

State of Wisconsin/Department of Transportation

Checked by	Final	Boring No.
	RRR	1

State of Wisconsin/Department of Transportation

7

Boring No. Hand Probe #1

Structure Muddy Creek C-17-28

County Dunn

Sheet 1 of 1

Project 7600-03-00

Road USH 12 & STH 29

Station 379+92

Offset 40' L + E

Surface Elevation 879.0

GROUND WATER OBSERVATIONS

While drilling _____ Time after drilling _____

Before casing removal _____ Depth to water _____

After Boring Completed _____ Depth to cave-in _____

Cave In _____ Water Notes _____

MOISTURE

D = Damp

M = Moist

W = Wet

WA = Washahead

FT = Fish tail

RB = Rock bit

DRILLING METHOD

ST = Shelby tube

SS = Split spoon

DM = Drilling mud

A = Auger

C = Coring

W = Wash

E = Easy

M = Medium

H = Hard

Start 4/9/84

Unit IT

Finish " "

Chief Meyer

Sample No.	Moisture	Blows on Sampler		Sample and Recovery	VISUAL FIELD CLASSIFICATION AND REMARKS	Unconfined Strength	Boulders	Blows on		Drilling Method
		0/6	6/12					Casing Size	Probe Size	
					Black PEAT					P.
					Sand. Refusal					
				5	End of Probe 4.5'	5				
				10		10				
				15		15				
				20		20				
				25		25				
				30		30				
				35		35				
				40		40				

FIELD BORING LOG
E-L-3(5)-8-76
State of Wisconsin/Department of Transportation
Boring No. 2 Structure Muddy Creek C-17-28 County Dunn Sheet 1 of 1

State of Wisconsin/Department of Transportation

Hand Probe 2 Structure Muddy Creek C-17-28 County Dunn Sheet 1 of 1

Project 7600-03-00 Road USH. 12 / STL 29

Station	380+08	Offset	40' at E	Surface Elevation	878.4
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GROUND WATER OBSERVATIONS

While drilling _____ Time after drilling _____

Before casing removal _____ Depth to water _____

After Boring Completed _____ Depth to cave-in _____

Cave In _____ Water Notes _____

MOISTURE	DRILLING METHOD	Start 1/10/84
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MOISTURE

DRILLING METHOD

D = Damp
M = Moist
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A = Auger
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E = Easy
M = Medium
H = Hard

Start 4/9/84 Unit FF

Finish 41 6 Chief *Mayers*

Checked by	Final	Boring No.
		Hand Probe #2