

M & W Soils Engineering Inc.
Main St. Charlestown, NH 03603

SHEET 1 of 1
DATE 8/26/02
HOLE NO. B-3

TO DUFRESNE-HENRY, INC. ADDRESS SOUTH BURLINGTON, VT
PROJECT NAME BRIDGE #48 LOCATION NORWICH, VT
REPORT SENT TO MIKE CHENETTE PROJ. NO.
SAMPLES RETAINED BY M & W SOILS ENG., INC. OUR JOB NO. 8856-02

GROUND WATER OBSERVATIONS
AT 15'4" AT IMMEDIATELY HOURS
Type HSA SS
Size I. D. 3 1/4" 1 1/2"
Hammer Wt. 140# BIT
Hammer Fall 30"

DATE STARTED 8/26/02
DATE COMPL. 8/26/02
BORING FORMAN M.H., J.F. & S.M.
INSPECTOR M. CHENETTE
SOILS ENGR.

LOCATION OF BORING AS MARKED - NORTH END OF BRIDGE

Depth	SAMPLE DEPTHS FROM-TO	TYPE OF SAMPLE	Blows per 6" on sampler	MOISTURE DENSITY OR CONSIST.	STRATA CHANGE ELEV.	FIELD SOIL IDENTIFICATION Remarks include color, gradation, type of soil etc. Rock-color, type, cond., hardness, Drilling time, seams and ect.	SAMPLE NO. / PEN REC
					1 1/2"	ASPHALT	
					8 1/4"	CONCRETE	
5'						AIR BETWEEN DECK AND WATER	
10'							
15'					15'4"		
20'						WATER	
	22' - 23'	SS	17	82	21'		1 12" 10"
	24' - 26'	SS	11	7		MED. DENSE GREY GRAVELLY SANDS WITH BOULDERS	2 24" 15"
	26' - 28'	SS	13	15			3 24" 18"
			8	9			
					27'		
						MED. DENSE GREY FINE SAND WITH SOME SILT AND COBBLES REFUSAL TO AUGERS - BEDROCK OR BOULDER	
					29'		

GROUND SURFACE TO 29' USED CASING THEN

Sample Type	Proportions Used	140 lb. wt. x 30" fall an 2" O.D. Sampler	summary
D-Dry C-Cored W-Washed	trace 0 to 10%	Cohesionless Density	EARTH BORING 29'
UP-Unfinished Piston	little 10 to 20%	0-10 Loose	ROCK CORING
TP-Test Pit A-Auger V-Vane	some 20 to 35%	10-30 Med. Dense	SAMPLES 3
UT-Undisturbed Thinwall	and 35 to 50%	30-50 Dense	HOLE NO. B-3
		50+ Very Dense	
		8-15 Stiff	
		15-30 V-Stiff	

ABUTMENT #2
TOP OF FOOTING
EL. 381.68 ±

ABUTMENT #1
TOP OF FOOTING
EL. 385.26 ±

M & W Soils Engineering Inc.
Main St. Charlestown, NH 03603

SHEET 1 of 1
DATE 8/27/02
HOLE NO. B-4

TO DUFRESNE-HENRY, INC. ADDRESS SOUTH BURLINGTON, VT
PROJECT NAME BRIDGE #48 LOCATION NORWICH, VT
REPORT SENT TO MIKE CHENETTE PROJ. NO.
SAMPLES RETAINED BY M & W SOILS ENG., INC. OUR JOB NO. 8856-02

GROUND WATER OBSERVATIONS
AT 14'8" AT IMMEDIATELY HOURS
Type HSA SS
Size I. D. 3 1/4" 1 1/2"
Hammer Wt. 140# BIT
Hammer Fall 30"

DATE STARTED 8/27/02
DATE COMPL. 8/27/02
BORING FORMAN M.H., J.F. & S.M.
INSPECTOR M. CHENETTE
SOILS ENGR.

LOCATION OF BORING AS MARKED - SOUTHEAST END OF BRIDGE DECK

Depth	SAMPLE DEPTHS FROM-TO	TYPE OF SAMPLE	Blows per 6" on sampler	MOISTURE DENSITY OR CONSIST.	STRATA CHANGE ELEV.	FIELD SOIL IDENTIFICATION Remarks include color, gradation, type of soil etc. Rock-color, type, cond., hardness, Drilling time, seams and ect.	SAMPLE NO. / PEN REC
					1 1/2"	ASPHALT	
					7 1/2"	CONCRETE	
5'						AIR BETWEEN DECK AND WATER	
10'							
15'					14'8"		
20'						WATER	
					20'6"		
	22'6" - 23'11"	SS	13	14		MED. DENSE GREY COARSE SAND AND FINE GRAVEL WITH COBBLES	1 17" 15"
					23'6"		
					23'11"	BROWN GRAVELLY SILTS AND FINE SANDS	
					24'4"	WEATHERED ROCK - REFUSAL TO SPLIT SPOON REFUSAL TO AUGERS - BEDROCK OR BOULDER	

GROUND SURFACE TO 24'4" USED CASING THEN

Sample Type	Proportions Used	140 lb. wt. x 30" fall an 2" O.D. Sampler	summary
D-Dry C-Cored W-Washed	trace 0 to 10%	Cohesionless Density	EARTH BORING 24'4"
UP-Unfinished Piston	little 10 to 20%	0-10 Loose	ROCK CORING
TP-Test Pit A-Auger V-Vane	some 20 to 35%	10-30 Med. Dense	SAMPLES 1
UT-Undisturbed Thinwall	and 35 to 50%	30-50 Dense	HOLE NO. B-4
		50+ Very Dense	
		8-15 Stiff	
		15-30 V-Stiff	

**STATE OF VERMONT
AGENCY OF TRANSPORTATION**

Town Of NORWICH Bridge No. 46
Highway No. T.H. 3 Log Sta. _____
Surv. Sta. _____

TOWN HIGHWAY NO. 3 OVER OMPOMPANOOSUC RIVER

BORING INFORMATION SHEET (3)

Designed By S. BURBANK Drawn By S. BURBANK
Checked By Date Bridge Design Supervisor
M. CHENETTE 12/03 M. CHENETTE Date 12/03

PROJECT NORWICH PROJECT NO. TH2-9625
DH CAD Filename: ...Norw-bore2.dgn Plot Date: 03/31/2004
Bridge Sheet No. Sheet 13 of 40

