MAINE DEPARTMENT OF TRANSPORTATION
BRIDGE PROGRAM
GEOTECHNICAL SECTION
AUGUSTA, MAINE

GEOTECHNICAL DATA REPORT

For the Replacement of:

KNIGHTS HILL BRIDGE
OVER MESERVY BROOK
STATE ROUTE 52
LINCOLNVILLE, MAINE

Compiled by:

Michael J. Moreau, P.E.
Geotechnical Engineer

Waldo County
PIN 12676.00

Soils Report No. 2008-111
Bridge No. 3194

October 22, 2008

Maine Department of Transportation

Soil/Rock Exploration Log
US CUSTOMARY UNITS

Project: Knights Hill Bridge over Meservy Brook
Route 52
Location: Lincolnville, Maine

Boring No.: BB-MB.LIN-101

PIN: 12676.00

Driller:	MaineDOT	**Elevation (ft.)**	166.6	**Auger ID/OD:**	5" Solid Stem
Operator:	E. Giguere	**Datum:**	NAVD 88	**Sampler:**	Standard Split Spoon
Logged By:	G. Lidstone	**Rig Type:**	CME 45C	**Hammer Wt./Fall:**	140#/30"
Date Start/Finish:	10/17/05-10/18/05	**Drilling Method:**	Cased Wash Boring	**Core Barrel:**	N/A
Boring Location:	13+89.9, 7.6 Rt.	**Casing ID/OD:**	HW	**Water Level*:**	8.0' bgs[a]

Definitions:
D = Split Spoon Sample
MD = Unsuccessful Split Spoon Sample attempt
U = Thin Wall Tube Sample
R = Rock Core Sample
V = Insitu Vane Shear Test
SSA = Solid Stem Auger

Definitions:
S_u = Insitu Field Vane Shear Strength (psf)
T_v = Pocket Torvane Shear Strength (psf)
q_p = Unconfined Compressive Strength (ksf)
$S_{u(lab)}$ = Lab Vane Shear Strength (psf)
WOH = weight of 140lb. hammer
WOR = weight of rods

Definitions:
WC = water content, percent
LL = Liquid Limit
PL = Plastic Limit
PI = Plasticity Index
G = Grain Size Analysis
C = Consolidation Test

Depth (ft.)	Sample No.	Pen./Rec. (in.)	Sample Depth (ft.)	Blows (/6 in.) Shear Strength (psf) or RQD (%)	N-value	Casing Blows	Elevation (ft.)	Graphic Log	Visual Description and Remarks	Laboratory Testing Results/ AASHTO and Unified Class.
0						SSA	165.95		PAVEMENT	
									0.7 Brown, damp, GRAVEL, sand, trace silt, (Fill).	
							164.60		2.0	
5	1D	24/10	5.0 - 7.0	2/1/1/2	2	10			Brown, moist, very loose, silty fine SAND, trace medium to coarse sand, trace gravel.	
						7				
						13				
						7	158.60		8.0	
						8				
10	2D/AB	24/9	10.0 - 12.0	6/3/1/1	4	9			(2D/A) 10.0-10.8' bgs. Brown, wet, very loose, silty fine to medium SAND, trace coarse sand.	
						7	155.80		10.8 (2D/B) 10.8-12.0' bgs. Brown, wet, very loose, silty fine SAND, trace organics.	
						9				
						24	153.40		13.2	
						38				
15	3D	24/15	15.0 - 17.0	6/3/3/3	6	18			Olive, moist, medium stiff, SILT, trace clay.	
						17				
						14	149.60		17.0 Grey, clayey SILT.	
						19				
						58	147.60		19.0	
20	4D	24/13	20.0 - 22.0	10/14/10/10	24	19			Grey, moist, medium dense, silty fine SAND, trace medium to coarse sand, trace gravel, (Till). Washed ahead of casing from 20.0-25.0' bgs.	
						13				
						17				
						14				
25						16				

Remarks:

[a]Static water levels were not achieved

Stratification lines represent approximate boundaries between soil types; transitions may be gradual.

* Water level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present at the time measurements were made.

Maine Department of Transportation

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US CUSTOMARY UNITS

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Route 52
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Boring No.: BB-MB.LIN-101

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Logged By:	G. Lidstone	**Rig Type:**	CME 45C	**Hammer Wt./Fall:**	140#/30"
Date Start/Finish:	10/17/05-10/18/05	**Drilling Method:**	Cased Wash Boring	**Core Barrel:**	N/A
Boring Location:	13+89.9, 7.6 Rt.	**Casing ID/OD:**	HW	**Water Level*:**	8.0' bgs[a]

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$S_{u(lab)}$ = Lab Vane Shear Strength (psf)
WOH = weight of 140lb. hammer
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Definitions:
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Depth (ft.)	Sample No.	Pen./Rec. (in.)	Sample Depth (ft.)	Blows (/6 in.) Shear Strength (psf) or RQD (%)	N-value	Casing Blows	Elevation (ft.)	Graphic Log	Visual Description and Remarks	Laboratory Testing Results/ AASHTO and Unified Class.
25	5D	24/10	25.0 - 27.0	8/17/24/26	41	19	141.60		25.0 Grey, damp, hard, SILT, trace sand, trace gravel, (Till). Washed ahead of casing from 25.0-30.0' bgs.	
						17				
						14				
						14				
						36	137.60		29.0	
30	6D	15.6/11	30.0 - 31.3	27/52/50[b]		26			[b]50 blows for 4 inches Grey, damp, very dense, silty fine to medium SAND, little coarse sand, trace gravel (Till). Washed ahead of casing from 30.0-35.0' bgs.	
						25				
						26				
						43				
						82				
35	7D	18/12	35.0 - 36.5	31/35/52	87	OPEN HOLE	131.60		35.0 Brown, moist, very dense, silty fine SAND, trace medium to coarse sand, trace gravel, (Till). Washed ahead of casing from 35.0-40.0' bgs.	
							128.60		38.0 Grey, moist, very dense, silty fine SAND, trace medium to coarse sand, (Till).	
40	8D	18/12	40.0 - 41.5	33/52/97	149		125.10		41.5 **Bottom of Exploration at 41.5 feet below ground surface.**	
45										
50										

Remarks:

[a]Static water levels were not achieved

Stratification lines represent approximate boundaries between soil types; transitions may be gradual.

* Water level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present at the time measurements were made.

Maine Department of Transportation

Soil/Rock Exploration Log
US CUSTOMARY UNITS

Project: Knights Hill Bridge over Meservy Brook
Route 52
Location: Lincolnville, Maine

Boring No.: BB-MB.LIN-102

PIN: 12676.00

Driller:	MaineDOT	**Elevation (ft.)**	165.4	**Auger ID/OD:**	5" Solid Stem
Operator:	E. Giguere	**Datum:**	NAVD 88	**Sampler:**	Standard Split Spoon
Logged By:	G. Lidstone	**Rig Type:**	CME 45C	**Hammer Wt./Fall:**	140#/30"
Date Start/Finish:	10/18/05; 10:15-16:00	**Drilling Method:**	Cased Wash Boring	**Core Barrel:**	N/A
Boring Location:	13+46.6, 8.7 Lt.	**Casing ID/OD:**	HW	**Water Level*:**	9.7' bgs[a]

Definitions:
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SSA = Solid Stem Auger

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$S_{u(lab)}$ = Lab Vane Shear Strength (psf)
WOH = weight of 140lb. hammer
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Definitions:
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C = Consolidation Test

Depth (ft.)	Sample No.	Pen./Rec. (in.)	Sample Depth (ft.)	Blows (/6 in.) Shear Strength (psf) or RQD (%)	N-value	Casing Blows	Elevation (ft.)	Graphic Log	Visual Description and Remarks	Laboratory Testing Results/ AASHTO and Unified Class.
				Sample Information						
0						SSA	164.80		PAVEMENT 0.6 Brown, damp, GRAVEL, cobbles, little fine to coarse sand, trace silt, (Fill).	
							162.40		3.0	
5	1D/AB	24/7	5.0 - 7.0	2/4/4/2	8	11			(1D/A) 5.0-6.7' bgs. Brown, damp, loose, silty fine to coarse SAND, little gravel, (Fill).	
						16	158.70		6.7	
						14			(1D/B) 6.7-7.0' bgs. Brown, moist, loose, silty fine SAND.	
						15				
						35				
10	2D	24/14	10.0 - 12.0	11/4/4/4	8	21	155.70		WOOD from 9.2 to 9.7' bgs Possible timber crib. 9.7 Brown, wet, loose, silty fine SAND with organics.	
						11				
						17				
						16	151.90		13.5	
						18				
15	3D	24/18	15.0 - 17.0	1/1/1/2	2	20			Grey, wet, very soft, clayey SILT.	
						18				
						19	148.40		17.0	
						61				
						93				
20	4D	24/13	20.0 - 22.0	17/17/15/17	32	18			Grey, moist, dense, silty fine to medium SAND, little coarse sand, trace gravel (Till). Washed ahead of casing from 20.0-25.0' bgs.	
						21				
						24				
						45				
25						83				

Remarks:

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US CUSTOMARY UNITS

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Route 52
Location: Lincolnville, Maine

Boring No.: BB-MB.LIN-102

PIN: 12676.00

Driller:	MaineDOT	**Elevation (ft.)**	165.4	**Auger ID/OD:**	5" Solid Stem
Operator:	E. Giguere	**Datum:**	NAVD 88	**Sampler:**	Standard Split Spoon
Logged By:	G. Lidstone	**Rig Type:**	CME 45C	**Hammer Wt./Fall:**	140#/30"
Date Start/Finish:	10/18/05; 10:15-16:00	**Drilling Method:**	Cased Wash Boring	**Core Barrel:**	N/A
Boring Location:	13+46.6, 8.7 Lt.	**Casing ID/OD:**	HW	**Water Level*:**	9.7' bgs[a]

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$S_{u(lab)}$ = Lab Vane Shear Strength (psf)
WOH = weight of 140lb. hammer
WOR = weight of rods

Definitions:
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Depth (ft.)	Sample No.	Pen./Rec. (in.)	Sample Depth (ft.)	Blows (/6 in.) Shear Strength (psf) or RQD (%)	N-value	Casing Blows	Elevation (ft.)	Graphic Log	Visual Description and Remarks	Laboratory Testing Results/ AASHTO and Unified Class.
25	5D	24/11	25.0 - 27.0	14/20/22/31	42	25			Grey, moist, dense, silty fine to medium SAND, little coarse sand, trace gravel (Till). Washed ahead of 25.0-30.0' bgs.	
						31				
						23				
						21				
						48	136.40		29.0	
30	6D	18/8	30.0 - 31.5	16/17/63	80	25			Grey, moist, very dense, silty fine to medium SAND, little coarse sand, trace silt layers (Till). Washed ahead of casing from 30.0-35.0' bgs.	
						26				
						20				
						28				
						130				
35	MD	0/0	35.0 - 35.0	50(0")	---				Cobble from 34.8-35.6' bgs. Failed sample attempt. Washed ahead from 35.0-40.0' bgs.	
									Boulder from 36.2-38.4' bgs.	
							127.00		38.4	
40	7D	18/11	40.0 - 41.5	38/67/80	147				Grey, moist, very dense, silty fine to medium SAND, little coarse sand, (Till).	
							123.90		41.5	
45									**Bottom of Exploration at 41.5 feet below ground surface.**	
50										

Remarks:

[a]Static water levels were not achieved

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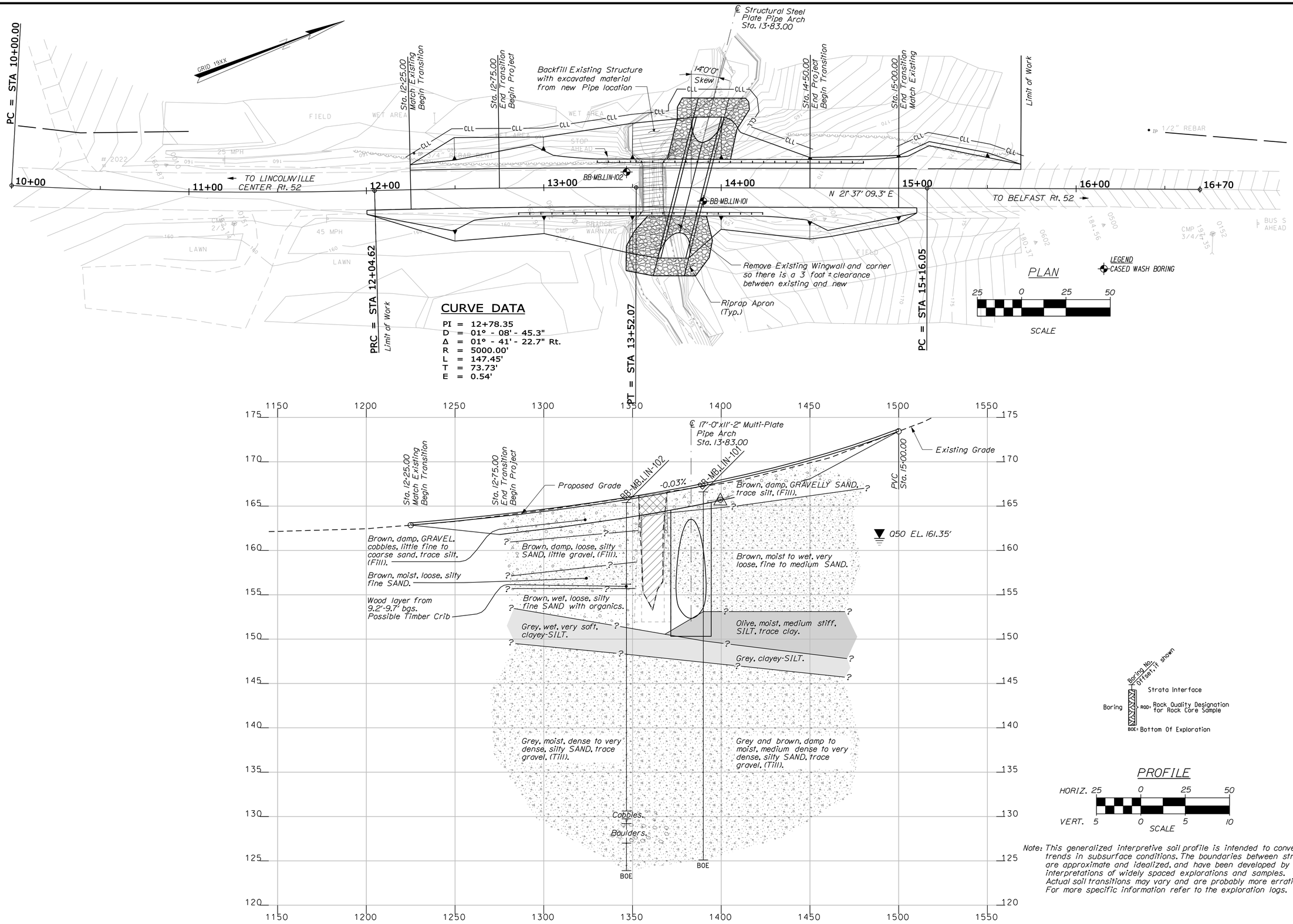

Note: This generalized interpretive soil profile is intended to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized, and have been developed by interpretations of widely spaced explorations and samples. Actual soil transitions may vary and are probably more erratic. For more specific information refer to the exploration logs.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

12676.00

PIN 12676.00

BRIDGE PLANS

BRIDGE NO. 3194

	BY	DATE
PROJ. MANAGER	N. BENOIT	
DESIGN-DETAILED	L. KRUSINSKI	SEPT 2008
CHECKED-REVIEWED	-----	-----
DESIGN2-DETAILED2	-----	-----
DESIGN3-DETAILED3	-----	-----
REVISIONS 1	T. WHITE	-----
REVISIONS 2	-----	-----
REVISIONS 3	-----	-----
REVISIONS 4	-----	-----
FIELD CHANGES	M. MENTALL	-----

SIGNATURE

P.E. NUMBER

DATE

KNIGHTS HILL BRIDGE
MESERVY BROOK
LINCOLNVILLE WALDO COUNTY

BORING LOCATION PLAN & INTERPRETIVE SUBSURFACE PROFILE

SHEET NUMBER

4

OF 11

Filename: ...\MSTA\005_BORING LOGS1.dgn Username: michael.moreau Date:10/20/2008

Division: GEOTECH

Maine Department of Transportation
Soil/Rock Exploration Log
US CUSTOMARY UNITS

Project: Knights Hill Bridge over Meservy Brook
Location: Lincolnville, Maine

Boring No.: BB-MB.LIN-102
PIN: 12676.00

Driller:	MaineDOT	Elevation (ft.):	165.4
Operator:	E. Giguere	Datum:	NAVD 88
Logged By:	G. Lidstone	Rig Type:	CME 45C
Date Start/(Finish):	10/18/05 (10:15-16:00	Drilling Methods:	Cased Wash Boring
Boring Location:	13+46.6, 8.7 Lt.	Casing ID/OD:	HW
Auger ID/OD:	5" Solid Stem	Sampler:	Standard Split Spoon
Hammer Wt./Fall:	140#/30"	Core Barrel:	N/A
Water Level*:	9.7' bgs@		

Definitions:
S = Split Spoon Sample
WO = Unsuccessful Split Spoon Sample attempt
U = Thin Wall Tube Sample
R = Rock Core Sample
V = Insitu Vane Shear Test
SSA = Solid Stem Auger

Definitions:
S_{uv} = Insitu Field Vane Shear Strength (psf)
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WOH = weight of 140lb. hammer
WOR = weight of rods WOC = weight of casing

Definitions:
MC = water content, percent
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Depth (ft.)	Sample No.	Pen./Rec. (in.)	Sample Depth (ft.)	Blows / 6 in. Shear Strength (psf) or RQD (%)	N-value	Casing Blows	Elevation (ft.)	Graphic Log	Visual Description and Remarks	Laboratory Testing Results/ AASHTO and Unified Class
0						SSA	164.80		PAVEMENT 0.600	
									Brown, damp, GRAVEL, cobbles, little fine to coarse sand, trace silt. (Fill).	
							162.40		3.000	
5	1D/AB	24/7	5.00 - 7.00	2/4/4/2	8	11			(1D/A) 5.0-6.7' bgs. Brown, damp, loose, silty fine to coarse SAND, little gravel. (Fill).	
						16	158.70		6.700	
						14			(1D/B) 6.7-7.0' bgs. Brown, moist, loose, silty fine SAND.	
						15				
						35	155.70		WOOD from 9.2 to 9.7' bgs Possible timber crib. 9.700	
10	2D	24/14	10.00 - 12.00	11/4/4/4	8	21			Brown, wet, loose, silty fine SAND with organics.	
						11				
						17				
						16	151.90		13.500	
						18			Grey, wet, very soft, clayey SILT.	
15	3D	24/18	15.00 - 17.00	1/1/1/2	2	20	148.40		17.000	
						18				
						19			Grey, moist, dense, silty fine to medium SAND, little coarse sand, trace gravel (Till), Washed ahead of casing from 20.0-25.0' bgs.	
						61				
						93				
20	4D	24/13	20.00 - 22.00	17/17/15/17	32	18				
						21				
						24				
						45				
						83			Grey, moist, dense, silty fine to medium SAND, little coarse sand, trace gravel (Till), Washed ahead of casing from 25.0-30.0' bgs.	
	5D	24/11	25.00 - 27.00	14/20/22/31	42	25				
						31				
						23				
						21				
						48	136.40		29.000	
30	6D	18/8	30.00 - 31.50	16/17/63	80	25			Grey, moist, very dense, silty fine to medium SAND, little coarse sand, trace silt layers (Till), Washed ahead of casing from 30.0-35.0' bgs.	
						26				
						20				
						28				
						130			Cobble from 34.8-35.6' bgs. Failed sample attempt. Washed ahead from 35.0-40.0' bgs.	
35	MD	0/0	35.00 - 35.00	50(0")	---				Boulder from 36.2-38.4' bgs.	
							127.00		38.400	
									Grey, moist, very dense, silty fine to medium SAND, little coarse sand, (Till).	
40	7D	18/11	40.00 - 41.50	38/67/80	147		123.90		41.500	
									Bottom of Exploration at 41.50 feet below ground surface.	
45										
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Remarks:
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US CUSTOMARY UNITS

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Logged By:	G. Lidstone	Rig Type:	CME 45C
Date Start/(Finish):	10/17/05-10/18/05	Drilling Methods:	Cased Wash Boring
Boring Location:	13+89.9, 7.6 Rt.	Casing ID/OD:	HW
Auger ID/OD:	5" Solid Stem	Sampler:	Standard Split Spoon
Hammer Wt./Fall:	140#/30"	Core Barrel:	N/A
Water Level*:	8.0' bgs@		

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						7				
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						8			(2D/A) 10.0-10.8' bgs. Brown, wet, very loose, silty fine to medium SAND, trace coarse sand.	
10	2D/AB	24/9	10.00 - 12.00	6/3/1/1	4	9	155.80		10.800	
						7			(2D/B) 10.8-12.0' bgs. Brown, wet, very loose, silty fine SAND, trace organics.	
						9				
						24	153.40		13.200	
						38			Olive, moist, medium stiff, SILT, trace clay.	
15	3D	24/15	15.00 - 17.00	6/3/3/3	6	18				
						17	149.60		17.000	
						14			Grey, clayey SILT.	
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						13				
						17				
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						16	141.60		25.000	
	5D	24/10	25.00 - 27.00	8/17/24/26	41	19			Grey, damp, hard, SILT, trace sand, trace gravel, (Till), Washed ahead of casing from 25.0-30.0' bgs.	
						17				
						14				
						14	137.60		29.000	
						36			50 blows for 4 inches	
30	6D	15.6/11	30.00 - 31.30	27/52/50b		26			Grey, damp, very dense, silty fine to medium SAND, little coarse sand, trace gravel (Till), Washed ahead of casing from 30.0-35.0' bgs.	
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						82	131.60		35.000	
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							128.60		38.000	
40	8D	18/12	40.00 - 41.50	33/52/97	149				Grey, moist, very dense, silty fine SAND, trace medium to coarse sand, (Till).	
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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

12676.00

PIN 12676.00

BRIDGE NO. 3194

BRIDGE PLANS

		BY	DATE
PROJ. MANAGER	N. BENOIT		
DESIGN-DETAILED	L. KRUSINSKI	T. WHITE	OCT 2008
CHECKED-REVIEWED	-----	-----	-----
DESIGN2-DETAILED2	-----	M. MCNALL	-----
DESIGN3-DETAILED3	-----	-----	-----
REVISIONS 1	-----	-----	-----
REVISIONS 2	-----	-----	-----
REVISIONS 3	-----	-----	-----
REVISIONS 4	-----	-----	-----
FIELD CHANGES	-----	-----	-----

SIGNATURE

P.E. NUMBER

DATE

KNIGHTS HILL BRIDGE
MESERVY BROOK
WALDO COUNTY
LINCOLNVILLE

BORING LOGS

SHEET NUMBER

5

OF 11