

## FIGURES

---



**APPENDIX A**  
**TEST BORING LOGS**

---

Project: VA Medical Center

Project Location: 423 E23rd Street, New York, NY

Project Number: 31943989

## Log of Boring B-1

Sheet 1 of 1

Date(s) Drilled	2/11/14 - 2/11/14	Logged By	Andreas Papaneocleous		Approximate Surface Elevation (feet)			N/A	
Drilling Method	Mud Rotary	Drilling Contractor	Aquifer Drilling & Testing			Coordinates	North:		
						East:			
Casing Size/Type	3"/4" Steel	Drill Rig Operator	James Phelpin			Total Depth Drilled (feet)	22.0	Rock Depth (feet)	5.0
Drill Rig Type	Portable Electric	Drill Bit Size/Type	3 7/8" Tricone			Sampler Type(s)	2" O.D. Split Spoon		
Groundwater Level and Date Measured		Hammer Wt/Drop	140 lb/30" Safety		Casing Hammer Wt/Drop	140 lb/30" Safety		Core Barrel Size/Type	NX
Boring Location and Comments						See Boring Location Plan			
						No. of Samples			
						Dist.:	4	Undist.:	Core (ft): 5

Depth, feet	Soil Samples			Rock Coring			Graphic Log	MATERIAL DESCRIPTION	Liquid Limit	Plastic Limit	Water Cont. (%)	% Fines	REMARKS/ OTHER TESTS
	Type, Number	Recov. (ft)	Pen. Resist. (blows/6 in)	Run Number	Recov. (%)	RQD (%)							
0													
5	S-1	0.3	5 23 17 12					(FILL) Moist Dark gray SILT, some m-f gray sand [7]					slight hydrocarbon odor
10	S-2	0.5	3 7 12 11					(FILL) Same as above [7]					
15	S-3	0.4	50/5"					(GM) GRAVEL and MICA FLAKES, some silt [2a]					
20				R-1	91.7	50		MICA SCHIST moderately fractured, weathering on fractures, [1c]					
25								End of Boring at 22 ft B.G.S.					

Project: VA Medical Center

Project Location: 423 E23rd Street, New York, NY

Project Number: 31943989

## Log of Boring B-2

Sheet 1 of 3

Date(s) Drilled	2/13/14 - 2/27/14	Logged By	Andreas Papaneocleous	Approximate Surface Elevation (feet)	N/A
Drilling Method	Mud Rotary	Drilling Contractor	Aquifer Drilling & Testing	Coordinates	North: East:
Casing Size/Type	2.5"/3"/4" Steel	Drill Rig Operator	James Phelpin	Total Depth Drilled (feet)	82.4
Drill Rig Type	Portable Electric	Drill Bit Size/Type	3 7/8" Tricone	Rock Depth (feet)	N/A
Groundwater Level and Date Measured		Hammer Wt/Drop	140 lb/30" Safety	Sampler Type(s)	2" O.D. Split Spoon
		Casing Hammer Wt/Drop	140 lb/30" Safety	Core Barrel Size/Type	NX
Boring Location and Comments	See Boring Location Plan			No. of Samples	Dist.: 14 Undist.: Core (ft):

Depth, feet	Soil Samples			Rock Coring			Graphic Log	MATERIAL DESCRIPTION	Liquid Limit	Plastic Limit	Water Cont. (%)	% Fines	REMARKS/ OTHER TESTS
	Type, Number	Recov. (ft)	Pen. Resist. (blows/6 in)	Run Number	Recov. (%)	RQD (%)							
0													Pre-cleared boring to 5 ft. BGS
5	S-1	0.1	50 50/1"					(FILL) Rock fragments [Class 7] Likely remnant foundations					Cored through existing foundation to 12 ft. BGS
10													
	S-2	0.0	50/0"					No recovery					
15													Cored through concrete with rebar to 17 ft. BGS
	S-3	1.7	2 2 2 2					(OL) Dark gray, moist organic SILT, low plasticity, some organic fibers (shells), trace clay [6]					
20													
	S-4	1.4	3 3 4 3					(OH) Dark gray, moist organic SILT, medium to high plasticity, some silt, trace shells [6]					Peat encountered at tip of spoon. Hydrocarbon odor.
25													

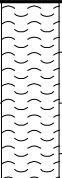
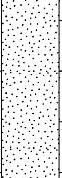
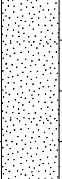
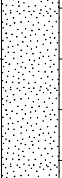
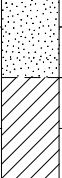
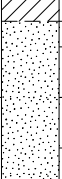

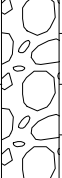
Project: VA Medical Center

Project Location: 423 E23rd Street, New York, NY

Project Number: 31943989

## Log of Boring B-2

Sheet 2 of 3

Depth, feet	Soil Samples			Rock Coring			Graphic Log	MATERIAL DESCRIPTION	Liquid Limit	Plastic Limit	Water Cont. (%)	% Fines	REMARKS/ OTHER TESTS
	Type, Number	Recov. (ft)	Pen. Resist. (blows/6 in)	Run Number	Recov. (%)	RQD (%)							
25	S-5	1.0	4 10 9 27					(MH) Dark gray, inorganic SILT, micaceous, some f-m sand, trace clay [5b]					
30	S-6	0.9	18 21 25 27					(SP) Gray f-m SAND, trace silt, trace mica, moist [3a]					
35	S-7	1.2	7 8 11 12					(SP) Gray f-m SAND, trace silt, well saturated [3b]					
40	S-8	1.3	12 11 14 18				 	(SP) Gray f-m SAND, trace silt, wet [3b] (CL) Brown inorganic CLAY, trace silt, moist, stiff [4b]					
45	S-9	1.0	16 26 35 50/1"					(SP) Gray f-m SAND, trace silt, some mica flakes, wet [3a] Rock fragments on tip of spoon					
50													Cored through cobbles, boulders and gravel to 52 ft. BGS
	S-11	0.0	50/0"					No recovery					Driller installed 2.5" casing

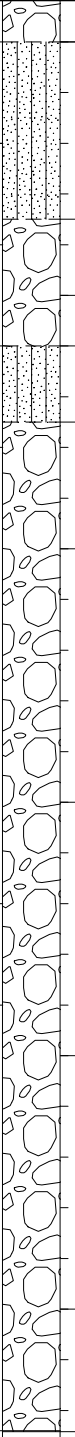
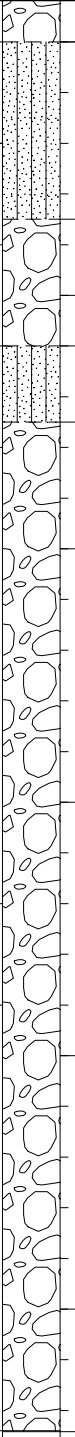
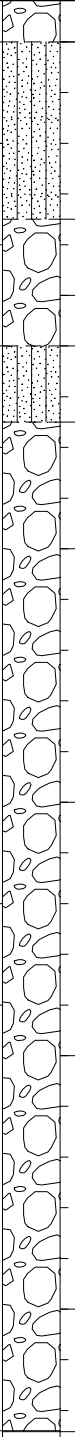
Project: VA Medical Center

Project Location: 423 E23rd Street, New York, NY

Project Number: 31943989

## Log of Boring B-2

Sheet 3 of 3

Depth, feet	Soil Samples			Rock Coring			Graphic Log	MATERIAL DESCRIPTION	Liquid Limit	Plastic Limit	Water Cont. (%)	% Fines	REMARKS/ OTHER TESTS
	Type, Number	Recov. (ft)	Pen. Resist. (blows/6 in)	Run Number	Recov. (%)	RQD (%)							
55	S-12	1.2	23 17 14 33					(SP) Gray f-m SAND, some mica flakes, trace silt, wet [3a]					
	S-13	0.1	58 60 50/2"					(SM) Silty f-m SAND [3a]					
60													~2 ft. boulder
	S-14	0.1	26 48 50/4"					(SM) Silty f-m gray SAND [3a]					
65													Cored through cobbles and boulders to 72 ft. BGS
70													
	S-15	0.2	49 50/4"					(GP) GRAVEL [2a] Possibly soft weathered rock					Cored through boulders, cobbles, gravel to 82.4 ft. BGS
75													
80													
								End of boring at 82.4 ft. BGS					