

BORING LOG NO. B-2A

PROJECT: Route 112 & Route 116 - NP

CLIENT: Eversource

SITE:

New Hampshire

GRAPHIC LOG	LOCATION	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	FIELD TEST RESULTS	RQD (%)	Core rate (min./ft.)
	Route 18, Sugar Hill, NH Latitude: -71.762253° Longitude: 44.245206° Approximate Surface Elev: 908 (Ft.) +/- ELEVATION (Ft.)							
DEPTH								
	SILTY SAND WITH GRAVEL (SM) , orange-brown, very dense, (GLACIAL TILL) Frequent cobble and boulders from 2 to 4 feet	3			3	3-50/2"		
4.0	904+/-							
	Highly weathered rock, brown, mottled, very dense Choppy rough drilling	5						
		10			5	30-50/3"		
		15			13	40-30-30-30 N=60		
17.0	891+/-							
	Boring Terminated at 17 Feet							
Stratification lines are approximate. In-situ, the transition may be gradual.					Hammer Type: Automatic			

Advancement Method: 4.25-inch solid stem augers/ drive and wash	See Exhibit A-3 for description of field procedures. See Appendix B for description of laboratory procedures and additional data (if any).
Abandonment Method: Boring backfilled with soil cuttings upon completion.	See Appendix C for explanation of symbols and abbreviations.
WATER LEVEL OBSERVATIONS	
<i>No free water observed</i>	

Terracon
77 Sundial Ave Ste 401W
Manchester, NH

Notes:	
Boring Started: 1/15/2016	Boring Completed: 1/15/2016
Drill Rig: D-50	Driller: Terracon/Peter
Project No.: J1155175	Exhibit: A-33

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL - J1155175.GPJ

BORING LOG NO. B-4A

PROJECT: Route 112 & Route 116 - NP

CLIENT: Eversource

SITE:

New Hampshire

GRAPHIC LOG	LOCATION	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	FIELD TEST RESULTS	ROD (%)	Core rate (min./ft.)
	Route 116, Franconia, NH Latitude: -71.751657° Longitude: 44.193542° Approximate Surface Elev: 971 (Ft.) +/-							
	ELEVATION (Ft.)							
DEPTH								
1.0	POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SM) , gray to brown, dense, (Base)	970+/-			16	26-26-6-5 N=32		
	SILTY SAND WITH GRAVEL (SM) , brown, medium dense, (GLACIO-FLUVIAL)				18	9-13-20-20 N=33		
	Pulverized cobble at 3 feet				22	8-11-17-20 N=28		
7.0		964+/-						
	POORLY GRADED SAND WITH SILT (SP-SM) , trace gravel, gray, medium dense, (GLACIO-FLUVIAL)		▽					
			10		18	8-11-8-10 N=19		
					23	5-8-8-12 N=16		
16.5		954.5+/-						
17.0	POORLY GRADED SAND (SP) , brown, medium dense, (GLACIO-FLUVIAL)	954+/-						
	Boring Terminated at 17 Feet							

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
4.25-inch solid stem augers

See Exhibit A-3 for description of field procedures.
See Appendix B for description of laboratory procedures and additional data (if any).
See Appendix C for explanation of symbols and abbreviations.

Notes:

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

WATER LEVEL OBSERVATIONS

▽ 9' WD



Boring Started: 1/15/2016

Boring Completed: 1/15/2016

Drill Rig: D-50

Driller: Terracon/Peter

Project No.: J1155175

Exhibit: A-34

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL_J1155175.GPJ

BORING LOG NO. B-5

PROJECT: Route 112 & Route 116 - NP

CLIENT: Eversource

SITE:

New Hampshire

GRAPHIC LOG	LOCATION	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	FIELD TEST RESULTS	ROD (%)	Core rate (min./ft.)
	Route 116, Franconia, NH Latitude: -71.756322° Longitude: 44.181974° Approximate Surface Elev: 999 (Ft.) +/-							
	ELEVATION (Ft.)							
DEPTH								
4.0	FILL - POORLY GRADED GRAVEL WITH SILT AND SAND , gray, very dense			X	18	20-46-16-17 N=62		
	FILL - SILTY SAND , olive-brown, medium dense			X	22	10-10-6-6 N=16		
	995+/-		▽					
	SILTY SAND WITH GRAVEL (SM) , brown, dense, (GLACIO-FLUVIAL)	5		X	17	12-15-20-30 N=35		
	989+/-	10		X	16	10-9-8-9 N=17		
	SILTY SAND (SM) , trace gravel, occasional cobbles, brown, medium dense, (GLACIO-FLUVIAL)	15		X	20	5-7-11-15 N=18		
10.0								
	982+/-	17.0						
	Boring Terminated at 17 Feet							

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
4.25-inch solid stem augers

See Exhibit A-3 for description of field procedures.
See Appendix B for description of laboratory procedures and additional data (if any).
See Appendix C for explanation of symbols and abbreviations.

Notes:

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

WATER LEVEL OBSERVATIONS

▽ 4' WD



Boring Started: 1/15/2016

Boring Completed: 1/15/2016

Drill Rig: D-50

Driller: Terracon/Peter

Project No.: J1155175

Exhibit: A-35

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL - J1155175.GPJ

BORING LOG NO. B-5A

PROJECT: Route 112 & Route 116 - NP

CLIENT: Eversource

SITE:

New Hampshire

GRAPHIC LOG	LOCATION	DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	FIELD TEST RESULTS	ROD (%)	Core rate (min./ft.)
	Route 116, Franconia, NH Latitude: -71.764208° Longitude: 44.168781° Approximate Surface Elev: 1024 (Ft.) +/-									
1.0	POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SM) , brown, medium dense, (base course)	1023+/-					15	10-10-6-6 N=16		
3.0	SILTY SAND WITH GRAVEL (SM) , dark brown, medium dense to loose, (GLACIO-FLUVIAL)	1021+/-					16	4-5-4-4 N=9		
	SILT (ML) , trace clay, trace sand, olive-brown, loose to medium dense, (GLACIO-FLUVIAL)			5			22	6-6-6-7 N=12		
10.0	SILTY SAND (SM) , light gray to gray, medium dense to loose, (GLACIO-FLUVIAL)	1014+/-		10			18	5-5-6-8 N=11		
17.0	Coarse sand layer at 16 feet	1007+/-		15	▽		14	3-4-4-5 N=8		
	Boring Terminated at 17 Feet									

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
4.25-inch solid stem augers

See Exhibit A-3 for description of field procedures.
See Appendix B for description of laboratory procedures and additional data (if any).
See Appendix C for explanation of symbols and abbreviations.

Notes:

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

WATER LEVEL OBSERVATIONS

▽ 16' WD



Boring Started: 1/15/2016

Boring Completed: 1/15/2016

Drill Rig: D-50

Driller: Terracon/Peter

Project No.: J1155175

Exhibit: A-36

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL - J1155175.GPJ

BORING LOG NO. B-6

PROJECT: Route 112 & Route 116 - NP

CLIENT: Eversource

SITE:

New Hampshire

GRAPHIC LOG	LOCATION	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	FIELD TEST RESULTS	ROD (%)	Core rate (min./ft.)
	Route 116, Easton, NH Latitude: -71.777301° Longitude: 44.158589° Approximate Surface Elev: 1046 (Ft.) +/-							
	ELEVATION (Ft.)							
DEPTH								
0.2	1-inch of asphalt	1046 +/-				30-15-6-6 N=21		
	FILL - POORLY GRADED SAND WITH GRAVEL , medium dense, (base course) FILL - SILTY SAND WITH GRAVEL , brown, medium dense				18			
4.0		1042 +/-				6-8-7-8 N=15		
	SILTY SAND WITH GRAVEL (SM) , occasional cobbles, brown, medium dense to dense, (GLACIAL TILL)		▽		4			
10.0	Cobbles from 8.5 to 9.5 feet	1036 +/-				13-29-18-18 N=47		
	WELL GRADED GRAVEL WITH SILT AND SAND (SW-SM) , brown, medium dense, (GLACIAL TILL)				15			
17.0		1029 +/-				3-4-8-21 N=12		
	Boring Terminated at 17 Feet				8			
					12	4-6-14-19 N=20		
Stratification lines are approximate. In-situ, the transition may be gradual.		Hammer Type: Automatic						

Advancement Method: 4.25-inch solid stem augers	See Exhibit A-3 for description of field procedures. See Appendix B for description of laboratory procedures and additional data (if any).
Abandonment Method: Boring backfilled with soil cuttings upon completion.	See Appendix C for explanation of symbols and abbreviations.
WATER LEVEL OBSERVATIONS	
▽ 5' WD	

Notes:

Terracon
77 Sundial Ave Ste 401W
Manchester, NH

Boring Started: 1/15/2016	Boring Completed: 1/15/2016
Drill Rig: D-50	Driller: Terracon/Peter
Project No.: J1155175	Exhibit: A-37

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL - J1155175.GPJ

BORING LOG NO. B-6A

PROJECT: Route 112 & Route 116 - NP

CLIENT: Eversource

SITE:

New Hampshire

GRAPHIC LOG	LOCATION	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	FIELD TEST RESULTS	ROD (%)	Core rate (min./ft.)
	Route 116, Easton, NH Latitude: -71.789025° Longitude: 44.1475° Approximate Surface Elev: 1135 (Ft.) +/- ELEVATION (Ft.)							
DEPTH								
	FILL - POORLY GRADED SAND WITH GRAVEL (SP) , brown, medium dense FILL - SILTY SAND WITH GRAVEL , trace gravel, black, medium dense, (reclaim) SILTY SAND , dark brown, medium dense, cobble in tip of sampler	6.5		X	16	6-6-5-5 N=11		
				X	4	2-4-5-7 N=9		
		5		X	17	2-3-5-6 N=8		
6.5	Cobbles from 6.5 to 10 feet	1128.5+/-	▽					
10.0	LEAN CLAY WITH SILT (CL) , sand lenses, gray, very stiff to stiff, (GLACIO-FLUVIAL)	1125+/-		X	16	5-8-12-15 N=20		
				X	10	3-3-6-10 N=9		
17.0	Boring Terminated at 17 Feet	1118+/-						

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
4.25-inch solid stem augers

See Exhibit A-3 for description of field procedures.
See Appendix B for description of laboratory procedures and additional data (if any).
See Appendix C for explanation of symbols and abbreviations.

Notes:

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

WATER LEVEL OBSERVATIONS

▽ 8' WD



Boring Started: 1/15/2016

Boring Completed: 1/15/2016

Drill Rig: D-50

Driller: Terracon/Peter

Project No.: J1155175

Exhibit: A-38

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL - J1155175.GPJ

BORING LOG NO. B-7

PROJECT: Route 112 & Route 116 - NP

CLIENT: Eversource

SITE:

New Hampshire

GRAPHIC LOG	LOCATION	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	FIELD TEST RESULTS	ROD (%)	Core rate (min./ft.)
	Route 116, Easton, NH Latitude: -71.785166° Longitude: 44.134031° Approximate Surface Elev: 1265 (Ft.) +/- ELEVATION (Ft.)							
DEPTH								
	FILL - POORLY GRADED GRAVEL , gray, medium dense FILL - SILTY SAND WITH GRAVEL , brown, medium dense to loose	7.0		X	15	8-6-6-6 N=12		
	SILTY SAND WITH GRAVEL (SM) , frequent boulders, brown, medium dense to dense, (GLACIAL TILL)	15.8	▽	X	5	2-2-2-2 N=4		
		1258+/-		X	14	8-9-12-50/5" N=21		
		1249+/-		X	5	28-50/2"		
	Boring Terminated at 15.8 Feet							

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
4.25-inch solid stem augers

See Exhibit A-3 for description of field procedures.
See Appendix B for description of laboratory procedures and additional data (if any).
See Appendix C for explanation of symbols and abbreviations.

Notes:

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

WATER LEVEL OBSERVATIONS

▽ 9' WD



Boring Started: 1/12/2016

Boring Completed: 1/12/2016

Drill Rig: D-50

Driller: NTB/Mike N.

Project No.: J1155175

Exhibit: A-39

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL. J1155175.GPJ

BORING LOG NO. B-7A

PROJECT: Route 112 & Route 116 - NP

CLIENT: Eversource

SITE:

New Hampshire

GRAPHIC LOG	LOCATION	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	FIELD TEST RESULTS	ROD (%)	Core rate (min./ft.)
	Route 116, Easton, NH Latitude: -71.799756° Longitude: 44.123974° Approximate Surface Elev: 1262 (Ft.) +/- ELEVATION (Ft.)							
	FILL - POORLY GRADED SAND , brown, dense							
1.5		1260.5+/-		X	14	17-16-18-10 N=34		
2.0	SILTY SAND (SM) , brown, dense	1260+/-		X				
	POORLY GRADED SAND WITH GRAVEL (SP) , brown, medium dense to very dense, (GLACIAL TILL)			X	15	8-9-10-12 N=19		
7.0		1255+/-		X	14	32-30-36-32 N=66		
	POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SM) , brown, medium dense, (GLACIAL TILL)		▽					
14.5		1247.5+/-		X	15	8-6-6-6 N=12		
15.0	Weathered rock at 14.5 feet	1247+/-			0	50/0"		
	Sampler refusal on probable bedrock at 15 Feet							

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
4.25-inch solid stem augers

See Exhibit A-3 for description of field procedures.
See Appendix B for description of laboratory procedures and additional data (if any).
See Appendix C for explanation of symbols and abbreviations.

Notes:

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

WATER LEVEL OBSERVATIONS

▽ 9' WD



Boring Started: 1/12/2016

Boring Completed: 1/12/2016

Drill Rig: D-50

Driller: NTB/Mike N.

Project No.: J1155175

Exhibit: A-40

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL. J1155175.GPJ

BORING LOG NO. B-8

PROJECT: Route 112 & Route 116 - NP

CLIENT: Eversource

SITE:

New Hampshire

GRAPHIC LOG	LOCATION	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	FIELD TEST RESULTS	ROD (%)	Core rate (min./ft.)
	Route 116, Easton, NH Latitude: -71.813851° Longitude: 44.113134° Approximate Surface Elev: 1375 (Ft.) +/- ELEVATION (Ft.)							
DEPTH								
6.0	FILL - POORLY GRADED SAND WITH GRAVEL , brown, medium dense FILL - SILTY SAND , black, medium dense, (recycled asphalt) FILL - POORLY GRADED SAND WITH GRAVEL , brown, medium dense FILL - SILTY SAND WITH GRAVEL , brown, loose			X	13	13-11-18-12 N=29		
8.0	FILL - SANDY SILT , brown, medium dense SANDY SILT (ML) , orange-brown, medium dense, (LACUSTRINE)	1369+/-	▽	X	15	8-4-3-3 N=7		
15.8	SILTY GRAVEL WITH SAND (GM) , gray, medium dense to dense, (GLACIAL TILL)	1367+/-		X	14	6-6-6-16 N=12		
15.8	Refusal on probable bedrock at 15.8 Feet	1359+/-		X	12	7-15-50/5"		
15.8				X	7	5-50/4"		

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
4.25-inch solid stem augers

See Exhibit A-3 for description of field procedures.
See Appendix B for description of laboratory procedures and additional data (if any).
See Appendix C for explanation of symbols and abbreviations.

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

WATER LEVEL OBSERVATIONS
▽ 6' WD

Notes:



Boring Started: 1/12/2016	Boring Completed: 1/12/2016
Drill Rig: D-50	Driller: NTB/Mike N.
Project No.: J1155175	Exhibit: A-41

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL. J1155175.GPJ

BORING LOG NO. B-8A

PROJECT: Route 112 & Route 116 - NP

CLIENT: Eversource

SITE:

New Hampshire

GRAPHIC LOG	LOCATION	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	FIELD TEST RESULTS	ROD (%)	Core rate (min./ft.)
	Route 116, Easton, NH Latitude: -71.821477° Longitude: 44.103156° Approximate Surface Elev: 1199 (Ft.) +/-							
	ELEVATION (Ft.)							
2.0	FILL - POORLY GRADED SAND , trace silt, brown, medium dense FILL - SILTY SAND , orange-brown, medium dense			X	12	6-5-6-5 N=11		
10.0	POORLY GRADED SAND (SP) , trace silt, trace gravel from 10 to 11 feet, brown, medium dense, sand finer with depth (GLACIO-FLUVIUM)	5		X	17	6-6-6-6 N=12		
17.0	POORLY GRADED SAND WITH SILT (SP-SM) , brown, medium dense, (GLACIO-FLUVIUM)	10	▽	X	12	4-5-6-6 N=11		
		15		X	14	6-5-5-5 N=10		
		17.0		X	7	4-5-6-5 N=11		
	Boring Terminated at 17 Feet							

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
4.25-inch solid stem augers

See Exhibit A-3 for description of field procedures.
See Appendix B for description of laboratory procedures and additional data (if any).
See Appendix C for explanation of symbols and abbreviations.

Notes:

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

WATER LEVEL OBSERVATIONS

▽ 12' WD



Boring Started: 1/12/2016

Boring Completed: 1/12/2016

Drill Rig: D-50

Driller: NTB/Mike N.

Project No.: J1155175

Exhibit: A-42

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL - J1155175.GPJ

BORING LOG NO. B-9

PROJECT: Route 112 & Route 116 - NP

CLIENT: Eversource

SITE:

New Hampshire

GRAPHIC LOG	LOCATION	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	FIELD TEST RESULTS	ROD (%)	Core rate (min./ft.)
	Route 112, Easton, NH Latitude: -71.827365° Longitude: 44.093082° Approximate Surface Elev: 1173 (Ft.) +/- ELEVATION (Ft.)							
DEPTH								
7.0	FILL - POORLY GRADED GRAVEL WITH SILT AND SAND , brown, medium dense, (Base) FILL - SILTY SAND WITH GRAVEL , brown, loose			X	11	25-14-7-4 N=21		
13.5	WELL GRADED GRAVEL WITH SILT AND SAND (GW-GM) , brown to gray, mottled, very dense, (GLACIO-FLUVIUM)		▽	X	10	5-6-2-2 N=8		
17.0	SILT (ML) , trace sand, trace clay, gray, medium dense, (GLACIO-FLUVIUM)			X	15	15-45-36-22 N=81		
	Boring Terminated at 17 Feet			X		4-5-5-6 N=10		
Stratification lines are approximate. In-situ, the transition may be gradual.		Hammer Type: Automatic						

Advancement Method:
4.25-inch solid stem augers

See Exhibit A-3 for description of field procedures.
See Appendix B for description of laboratory procedures and additional data (if any).

Notes:

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

See Appendix C for explanation of symbols and abbreviations.

WATER LEVEL OBSERVATIONS
▽ 8' WD

77 Sundial Ave Ste 401W
Manchester, NH

Boring Started: 1/8/2016	Boring Completed: 1/8/2016
Drill Rig: CME-75	Driller: NTB/Mike N.
Project No.: J1155175	Exhibit: A-43

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL - J1155175.GPJ

BORING LOG NO. B-9A

PROJECT: Route 112 & Route 116 - NP

CLIENT: Eversource

SITE:

New Hampshire

GRAPHIC LOG	LOCATION	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	FIELD TEST RESULTS	ROD (%)	Core rate (min./ft.)
	Route 112, Easton, NH Latitude: -71.81225° Longitude: 44.08395° Approximate Surface Elev: 1209 (Ft.) +/- ELEVATION (Ft.)							
DEPTH								
	FILL - POORLY GRADED SAND WITH SILT AND GRAVEL , medium dense			X	15	18-12-10-8 N=22		
	FILL - SILTY SAND WITH GRAVEL , brown to light brown, dense							
		5		X	16	25-32-20-25 N=52		
	FILL - SILTY SAND , with crushed weathered rock, gray, medium dense	10		X	14	11-8-12-10 N=20		
12.0			▽					
	POORLY GRADED SAND WITH SILT (SP-SM) , brown, (GLACIO-FLUVIUM)							
14.0								
	POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SM) , brown to olive-brown, medium dense, (GLACIAL TILL)							
17.0				X	11	10-11-10-12 N=21		
	Boring Terminated at 17 Feet							
Stratification lines are approximate. In-situ, the transition may be gradual.					Hammer Type: Automatic			

Advancement Method: 4.25-inch solid stem augers	See Exhibit A-3 for description of field procedures. See Appendix B for description of laboratory procedures and additional data (if any).
Abandonment Method: Boring backfilled with soil cuttings upon completion.	See Appendix C for explanation of symbols and abbreviations.
WATER LEVEL OBSERVATIONS	
▽ 12' WD	

Terracon
77 Sundial Ave Ste 401W
Manchester, NH

Notes:	
Boring Started: 1/8/2016	Boring Completed: 1/8/2016
Drill Rig: CME-75	Driller: NTB/Mike N.
Project No.: J1155175	Exhibit: A-44

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL - J1155175.GPJ

BORING LOG NO. B-10

PROJECT: Route 112 & Route 116 - NP

CLIENT: Eversource

SITE:

New Hampshire

GRAPHIC LOG	LOCATION	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	FIELD TEST RESULTS	ROD (%)	Core rate (min./ft.)
	Route 112, Easton, NH Latitude: -71.795459° Longitude: 44.076164° Approximate Surface Elev: 1291 (Ft.) +/- ELEVATION (Ft.)							
DEPTH								
	FILL - SILTY SAND WITH GRAVEL , brown, loose			X	5	5-2-1-3 N=3		
4.0	1287+/-							
	SILTY SAND (SM) , light brown to gray, medium dense, (GLACIO-FLUVIUM)			X	12	5-5-15-5 N=20		
8.0	1283+/-	5						
	SILTY SAND WITH GRAVEL (SM) , trace clay, brown, very dense, occasional boulders from 8 to 15 feet (GLACIAL TILL)		▽	X	12	10-20-50/2" N=70+		
16.7	1274.5+/-	10						
	Boring Terminated at 16.7 Feet	15		X	14	19-16-49-50/3" N=65		

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
4.25-inch solid stem augers

See Exhibit A-3 for description of field procedures.
See Appendix B for description of laboratory procedures and additional data (if any).
See Appendix C for explanation of symbols and abbreviations.

Notes:

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

WATER LEVEL OBSERVATIONS

▽ 10' WD



Boring Started: 1/8/2016

Boring Completed: 1/8/2016

Drill Rig: D-50

Driller: NTB/Mike N.

Project No.: J1155175

Exhibit: A-45

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL - J1155175.GPJ

BORING LOG NO. B-10A

PROJECT: Route 112 & Route 116 - NP

CLIENT: Eversource

SITE:

New Hampshire

GRAPHIC LOG	LOCATION	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	FIELD TEST RESULTS	ROD (%)	Core rate (min./ft.)
	Route 112, Easton, NH Latitude: -71.792333° Longitude: 44.062669° Approximate Surface Elev: 1395 (Ft.) +/-							
	ELEVATION (Ft.)							
DEPTH								
	FILL - POORLY GRADED SAND WITH GRAVEL , brown, medium dense			X	12	6-6-7-7 N=13		
	FILL - SILTY SAND WITH GRAVEL , brown, medium dense							
		5		X	14	10-12-11-12 N=23		
	9.0	1386+/-	▽					
	POORLY GRADED GRAVEL WITH SILT AND SAND (GP-GM) , brown, dense, (GLACIO-FLUVIUM)			X	8	16-25 50/4" N=75+		
	13.5	1381.5+/-						
	POORLY GRADED SAND WITH SILT (SP-SM) , light brown, medium dense, (GLACIO-FLUVIUM)			X	13	6-7-6-7 N=13		
	17.0	1378+/-						
	Boring Terminated at 17 Feet							

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
4.25-inch solid stem augers

See Exhibit A-3 for description of field procedures.
See Appendix B for description of laboratory procedures and additional data (if any).
See Appendix C for explanation of symbols and abbreviations.

Notes:

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

WATER LEVEL OBSERVATIONS

▽ 9' WD



Boring Started: 1/8/2016

Boring Completed: 1/8/2016

Drill Rig: D-50

Driller: NTB/Mike N.

Project No.: J1155175

Exhibit: A-46

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL - J1155175.GPJ

BORING LOG NO. B-11

PROJECT: Route 112 & Route 116 - NP

CLIENT: Eversource

SITE:

New Hampshire

GRAPHIC LOG	LOCATION	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	FIELD TEST RESULTS	ROD (%)	Core rate (min./ft.)
	Route 112, Woodstock, NH Latitude: -71.79316° Longitude: 44.047567° Approximate Surface Elev: 1775 (Ft.) +/-							
	ELEVATION (Ft.)							
DEPTH								
	FILL - POORLY GRADED SAND , trace gravel, brown, medium dense			X	13	8-8-8-8 N=16		
		5		X	12	10-15-13-14 N=28		
		10		X	6	6-8-10-10 N=18		
	FILL - POORLY GRADED SAND WITH SILT , brown, medium dense			X	7	13-11-13-15 N=24		
		15.0						
	Boring Terminated at 15 Feet	1760+/-						
Stratification lines are approximate. In-situ, the transition may be gradual.					Hammer Type: Automatic			

Advancement Method: 4.25-inch hollow stem augers	See Exhibit A-3 for description of field procedures. See Appendix B for description of laboratory procedures and additional data (if any).
Abandonment Method: Boring backfilled with soil cuttings upon completion.	See Appendix C for explanation of symbols and abbreviations.
WATER LEVEL OBSERVATIONS	
<i>No free water observed</i>	

Terracon
77 Sundial Ave Ste 401W
Manchester, NH

Notes:	
Boring Started: 1/7/2016	Boring Completed: 1/7/2016
Drill Rig: CME-850	Driller: Terracon/Peter
Project No.: J1155175	Exhibit: A-47

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL - J1155175.GPJ

BORING LOG NO. B-11A

PROJECT: Route 112 & Route 116 - NP

CLIENT: Eversource

SITE:

New Hampshire

GRAPHIC LOG	LOCATION	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	FIELD TEST RESULTS	ROD (%)	Core rate (min./ft.)
	Route 112, Woodstock, NH Latitude: -71.785886° Longitude: 44.037327° Approximate Surface Elev: 1820 (Ft.) +/-							
	ELEVATION (Ft.)							
	DEPTH							
0.3	3-inches of asphalt	1820 +/-		X	16	20-20-16-15 N=36		
	FILL - POORLY GRADED SAND WITH SILT AND GRAVEL , light brown to brown, dense							
	FILL - , Boulders and cobbles, very dense							
5				X	1	50/4"		
9.0		1811 +/-						
	SILTY SAND (SM) , trace gravel, dark brown, very dense, (GLACIAL TILL)			X	18	30-46-50 N=96		
13.5	Weathered rock	1806.5 +/-						
15.1		1805 +/-			0	50/1"		
	Boring Terminated at 15.1 Feet							
Stratification lines are approximate. In-situ, the transition may be gradual.					Hammer Type: Automatic			

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL. J1155175.GPJ

<p>Advancement Method: 4.25-inch hollow stem augers</p> <p>Abandonment Method: Boring backfilled with soil cuttings upon completion.</p>	<p>See Exhibit A-3 for description of field procedures. See Appendix B for description of laboratory procedures and additional data (if any). See Appendix C for explanation of symbols and abbreviations.</p>	<p>Notes:</p>
<p>WATER LEVEL OBSERVATIONS</p> <p><i>No free water observed</i></p>	<p>77 Sundial Ave Ste 401W Manchester, NH</p>	
	<p>Boring Started: 1/7/2016</p> <p>Drill Rig: CME-850</p> <p>Project No.: J1155175</p>	<p>Boring Completed: 1/7/2016</p> <p>Driller: Terracon/Peter</p> <p>Exhibit: A-48</p>

BORING LOG NO. B-12

PROJECT: Route 112 & Route 116 - NP

CLIENT: Eversource

SITE:

New Hampshire

GRAPHIC LOG	LOCATION	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	FIELD TEST RESULTS	ROD (%)	Core rate (min./ft.)
	Route 112, Woodstock, NH Latitude: -71.768103° Longitude: 44.032376° Approximate Surface Elev: 1416 (Ft.) +/-							
	ELEVATION (Ft.)							
	0.5 Asphalt 1415.5+/-					8-11-6-2 N=17		
	FILL - POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SM), frequent boulders, brown, medium dense to very dense							
		5				50/2"		
	Occasional cobbles							
		10				15-16-14-22 N=30		
		15				50/4"		
	15.3 Frequent boulders 1400.5+/- Boring Terminated at 15.3 Feet							

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
4.25-inch hollow stem augers

See Exhibit A-3 for description of field procedures.
See Appendix B for description of laboratory procedures and additional data (if any).
See Appendix C for explanation of symbols and abbreviations.

Notes:

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

WATER LEVEL OBSERVATIONS

No free water observed



Boring Started: 1/6/2016

Boring Completed: 1/6/2016

Drill Rig: CME-75

Driller: Terracon/Peter

Project No.: J1155175

Exhibit: A-49

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL. J1155175.GPJ

BORING LOG NO. B-12A

PROJECT: Route 112 & Route 116 - NP

CLIENT: Eversource

SITE:

New Hampshire

GRAPHIC LOG	LOCATION	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	FIELD TEST RESULTS	RQD (%)	Core rate (min./ft.)
	Route 112, Woodstock, NH Latitude: -71.752317° Longitude: 44.024317° Approximate Surface Elev: 1189 (Ft.) +/-							
	ELEVATION (Ft.)							
DEPTH								
7.0	POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SM) , brown, medium dense to dense, (GLACIAL TILL)			X	12	5-6-8-10 N=14		
1182+/-		5		X	15	17-17-20-40 N=37		
17.0	Run 1 Hard, bluish black, coarse grained GRANITE, moderate spacing, no bedding, fresh, excellent RQD	10		█	54.5		91	2.25 2.25 2.25 2.25
1172+/-	Run 2 Similar, excellent RQD	15		█	60		100	
	Boring Terminated at 17 Feet							

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
4.25-inch hollow stem augers

See Exhibit A-3 for description of field procedures.
See Appendix B for description of laboratory procedures and additional data (if any).
See Appendix C for explanation of symbols and abbreviations.

Notes:

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

WATER LEVEL OBSERVATIONS

No free water observed



Boring Started: 1/7/2016

Boring Completed: 1/7/2016

Drill Rig: CME-850

Driller: Terracon/Peter

Project No.: J1155175

Exhibit: A-50

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL - J1155175.GPJ

BORING LOG NO. B-13A

PROJECT: Route 112 & Route 116 - NP

CLIENT: Eversource

SITE:

New Hampshire

GRAPHIC LOG	LOCATION See Exhibit A-2 Latitude: -71.719139° Longitude: 44.028594° Approximate Surface Elev: 886 (Ft.) +/- ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	FIELD TEST RESULTS	RQD (%)	Core rate (min./ft.)
2.0	FILL - POORLY GRADED SAND WITH SILT AND GRAVEL , brown, medium dense	884+/-		X	12	10-10-10-10 N=20		
5.0	POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SM) , brown, medium dense, (GLACIAL TILL) Auger refusal at 5 feet, offset 5 feet west	881+/-	▽					
6.7	SILTY SAND WITH GRAVEL (SM) , dark brown, medium dense, (GLACIAL TILL) Sampler refusal at 6.7 feet, roller bit to 9 feet, begin core	879.5+/-		X	14	5-10-14-50/2" N=24		
9.0	Run 1 Hard, gray. coarse grained GRANITE, low angle, slightly weathered, good RQD	877+/-		█	49		73	
14.0	Boring Terminated at 14 Feet	872+/-						

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
4.25-inch hollow stem augers

See Exhibit A-3 for description of field procedures.
See Appendix B for description of laboratory procedures and additional data (if any).
See Appendix C for explanation of symbols and abbreviations.

Notes:

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

WATER LEVEL OBSERVATIONS

▽ 4'WD



Boring Started: 1/6/2016

Boring Completed: 1/6/2016

Drill Rig: CME-75

Driller: Terracon/Peter

Project No.: J1155175

Exhibit: A-51

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL. J1155175.GPJ

BORING LOG NO. B-14

PROJECT: Route 112 & Route 116 - NP

CLIENT: Eversource

SITE:

New Hampshire

GRAPHIC LOG	LOCATION	DEPTH	ELEVATION (Ft.)	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	FIELD TEST RESULTS	ROD (%)	Core rate (min./ft.)
	Route 112, Woodstock, NH Latitude: -71.701313° Longitude: 44.031538° Approximate Surface Elev: 766 (Ft.) +/-	0.2	766 +/-							
	SILTY SAND WITH GRAVEL (SM) , frequent cobbles, brown, medium dense to very dense, (GLACIAL TILL)	2		2			2	9-9-5-5 N=14		
	Cobbles from 6 to 7 feet			5						
				6			6	10-50 N=		
				10						
				15			4	23-23-24-30 N=47		
		15.0	751 +/-	15						
	POORLY GRADED GRAVEL WITH SILT AND SAND (GP-GM) , brown, very dense, (GLACIAL TILL)						5	10-22-30-30 N=52		
	Boring Terminated at 17 Feet	17.0	749 +/-							

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
4.25-inch hollow stem augers

See Exhibit A-3 for description of field procedures.
See Appendix B for description of laboratory procedures and additional data (if any).
See Appendix C for explanation of symbols and abbreviations.

Notes:

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

WATER LEVEL OBSERVATIONS

No free water observed



Boring Started: 1/6/2016

Boring Completed: 1/6/2016

Drill Rig: CME-75

Driller: Terracon/Peter

Project No.: J1155175

Exhibit: A-52

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL_J1155175.GPJ