BORING LOG NO. B-2A

PROJECT: Route 112 & Route 116 - NP

CLIENT: Eversource

SITE:
New Hampshire

LOCATION Route 18, Sugar Hill, NH

Latitude: -71.762253° Longitude: 44.245206°

GRAPHIC LOG	DEPTH	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	RQD (%)	Core rate (min./ft.)
	SILTY SAND WITH GRAVEL (SM), orange-brown, very dense							
	Frequent cobble and boulders from 2 to 4 feet				3	3-50/2"		
	4.0							
	Highly weathered rock, brown, mottled, very dense							
	Choppy rough drilling	5						
					5	30-50/3"		
		10						
		15						
					13	40-30-30-30 N=60		
	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/ drive and wash

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

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:

WATER LEVEL OBSERVATIONS

No free water observed

Terracon
77 Sundial Ave., Suite 401W
Manchester, New Hampshire

Boring Started: 1/15/2016 Boring Completed: 1/15/2016

Drill Rig: D-50 Driller: Teracon/Peter

Project No.: J1155175 Exhibit: A-32

BORING LOG NO. B-4A

PROJECT: Route 112 & Route 116 - NP

CLIENT: Eversource

SITE:
New Hampshire

LOCATION Route 116, Franconia, NH
Latitude: -71.751657° Longitude: 44.193542°

DEPTH		GRAPHIC LOG	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	FIELD TEST RESULTS	RQD (%)	Core rate (min./ft.)
1.0	**POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SM)**, gray to brown, dense, (Base)							
	SILTY SAND WITH GRAVEL (SM), brown, medium dense				16	26-26-6-5 N=32		
	Pulverized cobble at 3 feet				18	9-13-20-20 N=33		
5								
7.0					22	8-11-17-20 N=28		
	POORLY GRADED SAND (SP), trace silt, trace gravel, gray, medium dense		▽					
10					18	8-11-8-10 N=19		
					23	5-8-8-12 N=16		
15								
16.5								
17.0	**POORLY GRADED SAND (SP)**, brown, medium dense							
	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

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

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:

WATER LEVEL OBSERVATIONS

▽ 9' WD

Terracon
77 Sundial Ave., Suite 401W
Manchester, New Hampshire

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

BORING LOG NO. B-5

PROJECT: Route 112 & Route 116 - NP

CLIENT: Eversource

SITE:
New Hampshire

LOCATION Route 116, Franconia, NH
Latitude: -71.756322° Longitude: 44.181974°

GRAPHIC LOG	DEPTH	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	RQD (%)	Core rate (min./ft.)
	FILL - POORLY GRADED GRAVEL WITH SILT AND SAND, gray, very dense				18	20-46-16-17 N=62		
	FILL - SILTY SAND, olive-brown, medium dense		▽		22	10-10-6-6 N=16		
	4.0							
	SILTY SAND WITH GRAVEL (SM), brown, dense	5			17	12-15-20-30 N=35		
	10.0							
	POORLY GRADED SAND (SP), trace gravel, trace silt, occasional cobbles, brown, medium dense	10			16	10-9-8-9 N=17		
		15			20	5-7-11-15 N=18		
	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

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

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:

WATER LEVEL OBSERVATIONS

▽ *4' WD*

Terracon
77 Sundial Ave., Suite 401W
Manchester, New Hampshire

Boring Started: 1/15/2016 | Boring Completed: 1/15/2016
Drill Rig: D-50 | Driller: Teracon/Peter
Project No.: J1155175 | Exhibit: A-34

BORING LOG NO. B-5A

PROJECT: Route 112 & Route 116 - NP

CLIENT: Eversource

SITE:
New Hampshire

LOCATION Route 116, Franconia, NH
Latitude: -71.764208° Longitude: 44.168781°

DEPTH	GRAPHIC LOG		DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	RQD (%)	Core rate (min./ft.)
		POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SM), brown, medium dense, (base course)							
1.0		**SILTY SAND WITH GRAVEL (SM)**, dark brown, medium dense to loose				15	10-10-6-6 N=16		
3.0		**SILT (ML)**, trace clay, trace sand, olive-brown, loose to medium dense				16	4-5-4-4 N=9		
			5						
						22	6-6-6-7 N=12		
10.0		**SILTY SAND (SM)**, light gray to gray, medium dense to loose	10			18	5-5-6-8 N=11		
		Coarse sand layer at 16 feet	15	▽		14	3-4-4-5 N=8		
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

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

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:

WATER LEVEL OBSERVATIONS

▽ *16' WD*

Terracon
77 Sundial Ave., Suite 401W
Manchester, New Hampshire

Boring Started: 1/15/2016 | Boring Completed: 1/15/2016
Drill Rig: D-50 | Driller: Teracon/Peter
Project No.: J1155175 | Exhibit: A-35

BORING LOG NO. B-6

PROJECT: Route 112 & Route 116 - NP

CLIENT: Eversource

SITE:
New Hampshire

LOCATION Route 116, Easton, NH

Latitude: -71.777301° Longitude: 44.158589°

DEPTH		WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	RQD (%)	Core rate (min./ft.)
0.2	1-inch of asphalt **FILL - POORLY GRADED SAND WITH GRAVEL**, medium dense, (base course) **FILL - SILTY SAND WITH GRAVEL**, brown, medium dense			18	30-15-6-6 N=21		
				4	6-8-7-8 N=15		
4.0	**SILTY SAND WITH GRAVEL (SM)**, occasional cobbles, medium dense to dense	▽					
5				15	13-29-18-18 N=47		
	Cobbles from 8.5 to 9.5 feet						
10				8	3-4-8-21 N=12		
15				12	4-6-14-19 N=20		
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

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

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:

WATER LEVEL OBSERVATIONS

▽ 5' WD

Terracon
77 Sundial Ave., Suite 401W
Manchester, New Hampshire

Boring Started: 1/15/2016 Boring Completed: 1/15/2016

Drill Rig: D-50 Driller: Teracon/Peter

Project No.: J1155175 Exhibit: A-36

BORING LOG NO. B-6A

PROJECT: Route 112 & Route 116 - NP

CLIENT: Eversource

SITE:
New Hampshire

LOCATION Route 116, Easton, NH

Latitude: -71.789025° Longitude: 44.1475°

GRAPHIC LOG	DEPTH	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	RQD (%)	Core rate (min./ft.)
	FILL - POORLY GRADED SAND WITH GRAVEL (SP), brown, medium dense				16	6-6-5-5 N=11		
	FILL - SILTY SAND WITH GRAVEL., black, medium dense, (reclaim) **SILTY SAND**, dark brown, medium dense, cobble in tip of sampler				4	2-4-5-7 N=9		
	SILTY SAND, trace gravel	5			17	2-3-5-6 N=8		
	6.5 Cobbles from 6.5 to 10 feet		▽					
	10.0 **LEAN CLAY WITH SILT (CL)**, sand lenses, gray, very stiff to stiff	10			16	5-8-12-15 N=20		
		15			10	3-3-6-10 N=9		
	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

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

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:

WATER LEVEL OBSERVATIONS

▽ *8' WD*

Terracon
77 Sundial Ave., Suite 401W
Manchester, New Hampshire

Boring Started: 1/15/2016 Boring Completed: 1/15/2016

Drill Rig: D-50 Driller: Teracon/Peter

Project No.: J1155175 Exhibit: A-37

BORING LOG NO. B-7

PROJECT: Route 112 & Route 116 - NP

CLIENT: Eversource

SITE:
New Hampshire

LOCATION Route 116, Easton, NH

Latitude: -71.785166° Longitude: 44.134031°

GRAPHIC LOG	DEPTH		DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	RQD (%)	Core rate (min./ft.)
		FILL - POORLY GRADED GRAVEL, gray, medium dense **FILL - SILTY SAND WITH GRAVEL**, brown, medium dense to loose				15	8-6-6-6 N=12		
			5			5	2-2-2-2 N=4		
	7.0								
		SILTY SAND WITH GRAVEL (SM), frequent boulders, brown, medium dense to dense		▽		14	8-9- 12-50/5" N=21		
			10						
	15.8					5	28-50/2"		
		Boring Terminated at 15.8 Feet	15						

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

Hammer Type: Automatic

Advancement Method:
4.25-inch solid stem augers

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

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:

WATER LEVEL OBSERVATIONS

▽ *9' WD*

Terracon
77 Sundial Ave., Suite 401W
Manchester, New Hampshire

Boring Started: 1/12/2016 | Boring Completed: 1/12/2016

Drill Rig: D-50 | Driller: NTB/Mike N.

Project No.: J1155175 | Exhibit: A-38

BORING LOG NO. B-7A

PROJECT: Route 112 & Route 116 - NP

CLIENT: Eversource

SITE:
New Hampshire

LOCATION Route 116, Easton, NH

Latitude: -71.799756° Longitude: 44.123974°

DEPTH	GRAPHIC LOG		DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	RQD (%)	Core rate (min./ft.)
		FILL - POORLY GRADED SAND, brown, dense				14	17-16-18-10 N=34		
1.5									
2.0		**SILTY SAND (SM)**, brown, dense							
		POORLY GRADED SAND WITH GRAVEL (SP), brown, medium dense to very dense				15	8-9-10-12 N=19		
			5						
						14	32-30-36-32 N=66		
7.0									
		POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SM), brown, medium dense, (GLACIAL TILL)		▽					
			10			15	8-6-6-6 N=12		
14.5									
15.0		Weathered rock at 14.5 feet							
		Sampler refusal on probable bedrock at 15 Feet	15			0	50/0"		

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

Hammer Type: Automatic

Advancement Method:
4.25-inch solid stem augers

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

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:

WATER LEVEL OBSERVATIONS

▽ 9' WD

Terracon
77 Sundial Ave., Suite 401W
Manchester, New Hampshire

Boring Started: 1/12/2016 Boring Completed: 1/12/2016

Drill Rig: D-50 Driller: NTB/Mike N.

Project No.: J1155175 Exhibit: A-39

BORING LOG NO. B-8

PROJECT: Route 112 & Route 116 - NP

CLIENT: Eversource

SITE:
New Hampshire

LOCATION Route 116, Easton, NH

Latitude: -71.813851° Longitude: 44.113134°

GRAPHIC LOG	DEPTH	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	RQD (%)	Core rate (min./ft.)
	FILL - POORLY GRADED SAND WITH GRAVEL, brown, medium dense				13	13-11-18-12 N=29		
	FILL - SILTY SAND, black, medium dense, (recycled asphalt)							
	FILL - POORLY GRADED SAND WITH GRAVEL, brown, medium dense							
	FILL - SILTY SAND WITH GRAVEL, brown, loose				15	8-4-3-3 N=7		
		5						
	FILL - SANDY SILT, brown, medium dense		▽		14	6-6-6-16 N=12		
	6.0							
	SANDY SILT (ML), orange-brown, medium dense							
	8.0							
	SILTY GRAVEL WITH SAND (GM), gray, medium dense							
	10.0	10						
	SANDY SILT WITH GRAVEL (ML), gray, dense, (GLACIAL TILL)				12	7-15-50/5"		
	15.8	15			7	5-50/4"		
	Refusal on probable bedrock 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

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

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:

WATER LEVEL OBSERVATIONS

▽ *6' WD*

Terracon
77 Sundial Ave., Suite 401W
Manchester, New Hampshire

Boring Started: 1/12/2016 | Boring Completed: 1/12/2016

Drill Rig: D-50 | Driller: NTB/Mike N.

Project No.: J1155175 | Exhibit: A-40

BORING LOG NO. B-8A

PROJECT: Route 112 & Route 116 - NP

CLIENT: Eversource

SITE:
New Hampshire

LOCATION Route 116, Easton, NH

Latitude: -71.821477° Longitude: 44.103156°

GRAPHIC LOG	DEPTH	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	RQD (%)	Core rate (min./ft.)
	FILL - POORLY GRADED SAND, trace silt, brown, medium dense **FILL - SILTY SAND**, orange-brown, medium dense				12	6-5-6-5 N=11		
	2.0 **POORLY GRADED SAND (SP)**, trace silt, trace gravel from 10 to 11 feet, brown, medium dense, sand finer with depth				17	6-6-6-6 N=12		
		5			12	4-5-6-6 N=11		
	10.0 **POORLY GRADED SAND WITH SILT (SP-SM)**, brown, medium dense	10	▽		14	6-5-5-5 N=10		
		15			7	4-5-6-5 N=11		
	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

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

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:

WATER LEVEL OBSERVATIONS

▽ *12' WD*

Terracon
77 Sundial Ave., Suite 401W
Manchester, New Hampshire

Boring Started: 1/12/2016 Boring Completed: 1/12/2016

Drill Rig: D-50 Driller: NTB/Mike N.

Project No.: J1155175 Exhibit: A-41

BORING LOG NO. B-9

PROJECT: Route 112 & Route 116 - NP

CLIENT: Eversource

SITE:
New Hampshire

LOCATION Route 112, Easton, NH

Latitude: -71.827365° Longitude: 44.093082°

GRAPHIC LOG	DEPTH	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	RQD (%)	Core rate (min./ft.)
	FILL - POORLY GRADED GRAVEL WITH SILT AND SAND, brown, medium dense, (Base) **FILL - SILTY SAND WITH GRAVEL**, brown, loose				11	25-14-7-4 N=21		
		5			10	5-6-2-2 N=8		
7.0								
	WELL GRADED GRAVEL WITH SILT AND SAND (GW-GM), brown to gray, mottled, very dense		▽					
		10			15	15-45-36-22 N=81		
13.5								
	SILT (ML), trace sand, trace clay, gray, medium dense	15				4-5-5-6 N=10		
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

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

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:

WATER LEVEL OBSERVATIONS

▽ *8' WD*

Terracon
77 Sundial Ave., Suite 401W
Manchester, New Hampshire

Boring Started: 1/8/2016 | Boring Completed: 1/8/2016

Drill Rig: CME-75 | Driller: NTB/Mike N.

Project No.: J1155175 | Exhibit: A-42

BORING LOG NO. B-9A

PROJECT: Route 112 & Route 116 - NP

CLIENT: Eversource

SITE:
New Hampshire

LOCATION Route 112, Easton, NH

Latitude: -71.81225° Longitude: 44.08395°

GRAPHIC LOG	DEPTH	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	RQD (%)	Core rate (min./ft.)
	FILL - POORLY GRADED SAND WITH SILT AND GRAVEL, medium dense				15	18-12-10-8 N=22		
	FILL - SILTY SAND WITH GRAVEL, brown to light brown, dense	5			16	25-32-20-25 N=52		
	FILL - SILTY SAND, with crushed weathered rock, gray, medium dense	10	▽		14	11-8-12-10 N=20		
	12.0 **POORLY GRADED SAND WITH SILT (SP-SM)**, brown							
	14.0 **POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SM)**, brown to olive-brown, medium dense	15			11	10-11-10-12 N=21		
	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

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

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:

WATER LEVEL OBSERVATIONS

▽ *12' WD*

Terracon
77 Sundial Ave., Suite 401W
Manchester, New Hampshire

Boring Started: 1/8/2016 Boring Completed: 1/8/2016

Drill Rig: CME-75 Driller: NTB/Mike N.

Project No.: J1155175 Exhibit: A-43

BORING LOG NO. B-10

PROJECT: Route 112 & Route 116 - NP

CLIENT: Eversource

SITE:
New Hampshire

LOCATION Route 112, Easton, NH

Latitude: -71.795459° Longitude: 44.076164°

GRAPHIC LOG	DEPTH		DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	RQD (%)	Core rate (min./ft.)
	0.0	**FILL - SILTY SAND WITH GRAVEL**, brown, loose				5	5-2-1-3 N=3		
	4.0	**SILTY SAND (SM)**, light brown to gray, medium dense	5			12	5-5-15-5 N=20		
	8.0	**SILTY SAND WITH GRAVEL (SM)**, trace clay, brown, very dense, occasional boulders from 8 to 15 feet (GLACIAL TILL)	10	▽		12	10-20- 50/2" N=70+		
	16.7	***Boring Terminated at 16.7 Feet***	15			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

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

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:

WATER LEVEL OBSERVATIONS

▽ *10' WD*

Terracon
77 Sundial Ave., Suite 401W
Manchester, New Hampshire

Boring Started: 1/8/2016 | Boring Completed: 1/8/2016

Drill Rig: D-50 | Driller: NTB/Mike N.

Project No.: J1155175 | Exhibit: A-44

BORING LOG NO. B-10A

PROJECT: Route 112 & Route 116 - NP

CLIENT: Eversource

SITE:
New Hampshire

LOCATION Route 112, Easton, NH

Latitude: -71.792333° Longitude: 44.062669°

GRAPHIC LOG	DEPTH	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	RQD (%)	Core rate (min./ft.)
	FILL - POORLY GRADED SAND WITH GRAVEL, brown, medium dense				12	6-6-7-7 N=13		
	FILL - SILTY SAND WITH GRAVEL, brown, medium dense	5						
					14	10-12-11-12 N=23		
	9.0		▽					
	POORLY GRADED GRAVEL WITH SILT AND SAND (GP-GM), brown, dense	10			8	16-25 50/4" N=75+		
	13.5							
	POORLY GRADED SAND WITH SILT (SP-SM), light brown, medium dense	15			13	6-7-6-7 N=13		
	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

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

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:

WATER LEVEL OBSERVATIONS

▽ *9' WD*

Terracon
77 Sundial Ave., Suite 401W
Manchester, New Hampshire

Boring Started: 1/8/2016 | Boring Completed: 1/8/2016

Drill Rig: D-50 | Driller: NTB/Mike N.

Project No.: J1155175 | Exhibit: A-45

BORING LOG NO. B-11

PROJECT: Route 112 & Route 116 - NP

CLIENT: Eversource

SITE:
New Hampshire

LOCATION Route 112, Woodstock, NH
Latitude: -71.79316° Longitude: 44.047567°

DEPTH	GRAPHIC LOG	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	RQD (%)	Core rate (min./ft.)
0	**FILL - POORLY GRADED SAND**, trace gravel, brown, medium dense			13	8-8-8-8 N=16		
5				12	10-15-13-14 N=28		
10	**FILL - POORLY GRADED SAND WITH SILT**, brown, medium dense			6	6-8-10-10 N=18		
15				7	13-11-13-15 N=24		
15.0	***Boring Terminated at 15 Feet***						

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

Hammer Type: Automatic

Advancement Method:
4.25-inch hollow stem augers

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

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:

WATER LEVEL OBSERVATIONS
No free water observed

Terracon
77 Sundial Ave., Suite 401W
Manchester, New Hampshire

Boring Started: 1/7/2016 | Boring Completed: 1/7/2016
Drill Rig: CME-850 | Driller: Teracon/Peter
Project No.: J1155175 | Exhibit: A-46

BORING LOG NO. B-11A

PROJECT: Route 112 & Route 116 - NP

CLIENT: Eversource

SITE:
New Hampshire

LOCATION Route 112, Woodstock, NH
Latitude: -71.785886° Longitude: 44.037327°

DEPTH		GRAPHIC LOG	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	RQD (%)	Core rate (min./ft.)
0.3	3-inches of asphalt								
	FILL - POORLY GRADED SAND WITH SILT AND GRAVEL, light brown to brown, dense					16	20-20-16-15 N=36		
	FILL -, Boulders and cobbles, very dense		5			1	50/4"		
9.0									
	SILTY SAND (SM), trace gravel, dark brown, very dense, (GLACIAL TILL)		10			18	30-46-50 N=96		
13.5									
	Weathered rock								
15.1			15			0	50/1"		
	Boring Terminated at 15.1 Feet								

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

Hammer Type: Automatic

Advancement Method:
4.25-inch hollow stem augers

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

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:

WATER LEVEL OBSERVATIONS
No free water observed

Terracon
77 Sundial Ave., Suite 401W
Manchester, New Hampshire

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

BORING LOG NO. B-12

PROJECT: Route 112 & Route 116 - NP

CLIENT: Eversource

SITE:
New Hampshire

LOCATION Route 112, Woodstock, NH
Latitude: -71.768103° Longitude: 44.032376°

DEPTH		DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	RQD (%)	Core rate (min./ft.)
0.5	Asphalt							
	FILL - POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SM), frequent boulders, brown, medium dense to very dense				10	8-11-6-2 N=17		
		5			1	50/2"		
	Occasional cobbles	10			12	15-16-14-22 N=30		
15.3	Frequent boulders	15			2	50/4"		
	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

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

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:

WATER LEVEL OBSERVATIONS
No free water observed

Terracon
77 Sundial Ave., Suite 401W
Manchester, New Hampshire

Boring Started: 1/6/2016 | Boring Completed: 1/6/2016
Drill Rig: CME-75 | Driller: Teracon/Peter
Project No.: J1155175 | Exhibit: A-48

BORING LOG NO. B-12A

PROJECT: Route 112 & Route 116 - NP

CLIENT: Eversource

SITE:
New Hampshire

LOCATION Route 112, Woodstock, NH
Latitude: -71.752317° Longitude: 44.024317°

DEPTH	GRAPHIC LOG		DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	RQD (%)	Core rate (min./ft.)
		POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SM), brown, medium dense to dense				12	5-6-8-10 N=14		
			5						
						15	17-17-20-40 N=37		
7.0		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 2.25
		Run 2 Similar, excellent RQD	15			60		100	
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 hollow stem augers

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

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:

WATER LEVEL OBSERVATIONS
No free water observed

Terracon
77 Sundial Ave., Suite 401W
Manchester, New Hampshire

Boring Started: 1/7/2016 Boring Completed: 1/7/2016
Drill Rig: CME-850 Driller: Teracon/Peter
Project No.: J1155175 Exhibit: A-49

BORING LOG NO. B-13A

PROJECT: Route 112 & Route 116 - NP

CLIENT: Eversource

SITE:
New Hampshire

LOCATION See Exhibit A-2

Latitude: -71.719139° Longitude: 44.028594°

GRAPHIC LOG	DEPTH		DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	RQD (%)	Core rate (min./ft.)
	0.0	**FILL - POORLY GRADED SAND WITH SILT AND GRAVEL**, brown, medium dense				12	10-10-10-10 N=20		
	2.0	**POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SM)**, brown, medium dense		▽					
	5.0	Auger refusal at 5 feet, offset 5 feet west	5						
		SILTY SAND WITH GRAVEL (SM), dark brown, medium dense				14	5-10-14-50/2" N=24		
	6.7	Sampler refusal at 6.7 feet, roller bit to 9 feet, begin core							
	9.0	Run 1 Hard, gray. coarse grained GRANITE, low angle, slightly weathered, good RQD	10			49		73	
	14.0	***Boring Terminated at 14 Feet***							

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

Hammer Type: Automatic

Advancement Method:
4.25-inch hollow stem augers

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

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:

WATER LEVEL OBSERVATIONS

▽ *4'WD*

Terracon
77 Sundial Ave., Suite 401W
Manchester, New Hampshire

Boring Started: 1/6/2016 | Boring Completed: 1/6/2016

Drill Rig: CME-75 | Driller: Teracon/Peter

Project No.: J1155175 | Exhibit: A-50

BORING LOG NO. B-14

PROJECT: Route 112 & Route 116 - NP

CLIENT: Eversource

SITE:
New Hampshire

LOCATION Route 112, Woodstock, NH
Latitude: -71.701313° Longitude: 44.031538°

DEPTH	GRAPHIC LOG		DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	RQD (%)	Core rate (min./ft.)
0.2		2-inches of topsoil							
		SILTY SAND WITH GRAVEL (SM), frequent cobbles, brown, medium dense to very dense				2	9-9-5-5 N=14		
			5						
		Cobbles from 6 to 7 feet				6	10-50 N=		
			10			4	23-23-24-30 N=47		
15.0		**POORLY GRADED GRAVEL WITH SILT AND SAND (GP-GM)**, brown, very dense	15			5	10-22-30-30 N=52		
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 hollow stem augers

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

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:

WATER LEVEL OBSERVATIONS
No free water observed

Terracon
77 Sundial Ave., Suite 401W
Manchester, New Hampshire

Boring Started: 1/6/2016 | Boring Completed: 1/6/2016
Drill Rig: CME-75 | Driller: Teracon/Peter
Project No.: J1155175 | Exhibit: A-51