
GEOTECHNICAL ENGINEERING STUDY LOT A

for

Hudson Logistics Center Hudson, New Hampshire

Prepared For:

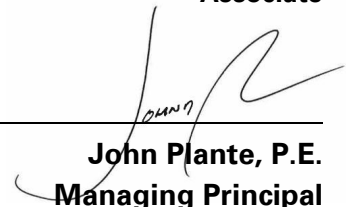
Hillwood
5050 W. Tilghman Street Suite 435
Allentown, PA 18104

Prepared By:

Langan MA, Inc.
888 Boylston Street, Suite 510
Boston, MA 02199



Clayton Patterson
Associate



John Plante, P.E.
Managing Principal

LANGAN

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EXECUTIVE SUMMARY

In support of the proposed industrial park development in Hudson, New Hampshire, Langan conducted a geotechnical subsurface exploration and prepared a geotechnical engineering study to provide geotechnical design and construction recommendations. Specifically, this report addresses Lot A within the overall development. The remaining two lots (Lot B and Lot C) are addressed in separate reports.

Existing grades on the 160 acre site generally slope down from the northeast to the west (about el +164 to +115). The design concept includes the construction of a distribution warehouse having a footprint of about 1,079,700 square feet (sf), a partial internal mezzanine, and a proposed finished floor elevation (FFE) of about el +142. Proposed site grades generally range from about el +111 to +146. The remaining development includes new access roads, parking areas, loading docks, utilities, and stormwater features.

At this time, the site grading has not been finalized. As such, the recommendations provided here are subject to change when the revised site grading is complete. If the grading approach changes, a revised geotechnical engineering report may be required as the grading affects our recommendations.

Our subsurface exploration was performed between June and July, 2020 and consisted of borings (116), test pits (49), observation wells (7), laboratory testing, and infiltration tests (6).

The general subsurface conditions across the entire lot consisted of a surficial layer of topsoil (about 2 to 24 inches thick), underlain by discontinuous layers of fill (about 2 to 8 feet thick), sand/silt (about 2 to up to 41 feet thick), glacial till (about 1 to up to 20 feet thick), weathered rock (top of about el +112 to +123), and bedrock (top of about el +96 to +151). Groundwater was encountered or observed across the site to slope down from east to west (about el +107 to +141). Within the proposed building footprint, bedrock was encountered from about el +96 to +124 and groundwater was encountered or observed from about el +116 to +138.

The proposed warehouse building can be supported on a conventional shallow foundation system using an allowable bearing pressure of 3,000 pounds per square foot (psf) bearing on the natural sand/silt, glacial till, or compacted structural fill. Total and differential settlements are estimated to be 1 inch and ½ inch or less, respectively. The proposed slab areas can be constructed as conventional slab-on-grade bearing on the natural sands, glacial till, or proof-rolled existing fill.

Site Class D and Seismic Design Category B may be used in design.

The following design and construction premiums were identified:

- Fill and buried topsoil encountered within the building footprint (two borings) will have to be removed and replaced with structural fill prior to foundation construction beneath footings.
- The natural sand is generally poorly graded and both the sand and glacial till materials have a fines contents ranging from 1% to 47%. Mixing the sand and glacial till with a more granular material may be required such that the materials are well-graded to meet the specifications for structural fill and so that the material are not as sensitive to moisture.
- Groundwater was encountered across the site from about 4 to 30 feet below grade (about el +107 to +141).
 - Temporary groundwater dewatering will be required throughout construction where excavations extend to below groundwater.
 - Groundwater was encountered within 4 feet and above proposed select paved areas. Permanent dewatering (underdrains) will be required at the southwestern corner of the lot for up to 150,000 square feet of paved areas.
- Bedrock was encountered across the site from about 7 to 43 feet below grade (about el +97 to +151).
 - Rock removal will be required for site areas to the north.
- Select wetlands are proposed for filling as part of the development. All unsuitable materials (i.e. water, organic materials, etc.) must be removed prior to filling. Dewatering activities should be expected in these areas.
- Potentially liquefiable soils were encountered in three borings beneath one of the proposed roadways. Additional study and explorations will be required to further assess these areas. Ground improvement or grouting methods may be required in these areas.
- The foundations for the proposed water towers have not been designed yet as they are a delegated design. Ground improvement may be required for the water towers; however this should be determined by the water tower design engineer of record.
- Topsoil will need to be segregated, as it is not suitable for re-use beneath structural areas (pavements, buildings, retaining walls, etc.). Topsoil may be re-used in landscaped areas, pending approval.

INTRODUCTION

This report presents our geotechnical engineering study for the proposed industrial park development in Hudson, New Hampshire. Specifically, this report addresses Lot A within the overall development. The remaining two lots (Lot B and Lot C) are addressed in separate reports.

The purposes of this study were to explore subsurface conditions, evaluate feasible foundation options, and develop geotechnical engineering recommendations. Services were performed in accordance with our authorized proposal (19 September 2019 and revised 1 July 2020).

Our approach and recommendations were developed considering the following plans, design criteria, preliminary loads, and design bulletin. Any changes to the design scheme must be reviewed by Langan for effects on our recommendations.

- Site development plans prepared by Langan (August 2020 progress print).
- “Design Criteria and Outline Specification for the Development of 2019-2020 NA Traditional Non-Sort Facility, Version 7.0” prepared by Ford & Associates Architects, Inc. (10 September 2019).
- Column Loading Map prepared by HSA & Associates, Inc. (received 20 July 2020).
- Design bulletin DB-0088 NACF Pavement Design Criteria and Guidelines (3 March 2020).

At this time, the site grading is still progressing. As such, the recommendations provided here are subject to change with the revised site grading.

Elevations are referenced from a “Topographic Subdivision Plan, Hudson Logistics Center” (21 April 2020) prepared by Hayner/Swanson, Inc. referencing the National Geodetic Vertical Datum of 1929 (NGVD29).

SITE DESCRIPTION

Overall

The overall about 320-acre site is occupied by the Green Meadow Golf Club at 59 Steele Road in Hudson, New Hampshire. The site is bounded by Sagamore Bridge Road to the north, commercial properties, streams/wetlands and New Hampshire Route 3A to the east, residential neighborhoods to the south along Fairway and Eagle Drives, and the Merrimack River to the west. Figure 1 shows the site location and surrounding properties.

The golf club consists of a 39-hole golf course including wooded areas, open fairways, water features, and sand traps. Structures include a two-story clubhouse, one-story maintenance

building, and pump houses. Grades generally slope up from the east to the center of the site and slope down from the center to the west towards the Merrimack River.

Multiple utilities run throughout the site to support the existing golf course (irrigation, electric, stormwater, etc.).

Lot A

Lot A is about 160 acres and is located on the northern half of the overall site. Site grades generally slope down from the northeast to the west (about el +164 to +115). High points (between about el +145 and +161) exist to the north, near Sagamore Bridge Road and at the southwest of the lot near the existing clubhouse parking lot. Elevations at the center and south parts of the lot typically vary between about el +130 and +140. Grades slope down along the western part of the side toward the Merrimack River from about el +142 to +115.

PROPOSED DEVELOPMENT

Overall

The overall proposed development will include demolition of the existing club golf course and ancillary structures, and the construction of three distribution warehouses on separate lots. No basement levels are proposed. Each proposed warehouse will have associated parking stalls, loading docks, access roads, landscaped areas, and stormwater basins. Additionally, one aboveground water tank is proposed for each lot (to be designed by others).

Several fill retaining walls up to about 10 feet high are proposed throughout the overall site.

Two new access roadways are proposed (Walmart Boulevard to the north and Green Meadow Drive to the south) to connect the three lots to Route 3A to the east. Walmart Boulevard will extend towards Route 3A from the northeast corner of Lot A and Green Meadow Drive will extend towards Route 3A from the east between Lots A and C. The roadways will traverse the existing wetlands and streams using a pipe culvert.

A boat ramp is being contemplated at the Merrimack River adjacent to Lot B. Explorations and associated recommendations for this area and the boat ramp are beyond the scope of this study.

Lot A

Table 1 details the proposed building information. An internal mezzanine will be constructed along the western edge and to the north within the building.

Proposed grades vary from about el +111 to +146. The proposed FFE is about el +142 with an about 4 foot drop to adjacent grades at the loading docks, where the pavement grades generally slope away from the building. Pavement areas vary between about el +130 and +143. Proposed infiltration basins are located to the northeast, west, and south of the proposed building (about el +111 to +135). The proposed site roadways (Walmart Blvd and Green Meadows Drive) vary between about el +131 and +146.

Table 1. Proposed Site Development

| Proposed Building | | Estimated Grades Within The Proposed Building Footprint (ft) | | | Proposed Structural Loads | | |
|------------------------------|----------------------------|--|--------------|------------------------|---------------------------|------------------------|------------------------|
| Stories (#) | Footprint / Mezzanine (SF) | Existing | Proposed FFE | Resulting Cuts & Fills | Mezzanine Area (kips) | Remaining Areas (kips) | Wall Loads (kips/foot) |
| One + one internal mezzanine | 1,079,700 / 250,000 | el +129 to +151 | el +142 | Cut = 9 Fill = 13 | 400 to 870 | 30 to 220 | 8 to 12 kips/foot |

REVIEW OF AVAILABLE INFORMATION

Regional Geology

The surficial geology map from the United States Department of Agriculture (Figure 2) indicates the overburden is loamy sand. The bedrock geology map from the United State Geologic Survey (Figure 3) indicates the bedrock below the site is granofels.

Federal Emergency Management Agency Flood Map

We reviewed the Flood Insurance Rate Map (FIRM) for the town of Hudson, New Hampshire, published by the Federal Emergency Management Agency (FEMA), Map No. 33011C0656D and 33011C0658D effective 25 September 2009 (Figure 4). Table 2 gives a summary of the findings.

Table 2. Flood Mapping

| Flood Mapping^{1,2,3} | |
|--------------------------------------|--|
| Building Area | Site and Roadway Areas |
| Zone X (not shaded) | Western Edge: Zone X (not shaded), Zone X (shaded), & Zone AE (el. +111) |

Available Historic Information

We reviewed historic topographic maps (1893 to 2012) and aerial photographs (1938 to 2016) for the overall site. Historic information is provided in Appendix A.

Pre-1893 – The site is shown as undeveloped with an unnamed stream running through the southeast part of the site. The surrounding areas also appear to be undeveloped.

Late 1910s to 1920s – The site is shown as mostly undeveloped, with unidentified structures and an access road in the eastern part of the site.

1930s to 1950s – The unknown structures from the late 1910s and 1920s are no longer shown on the topographic maps. Parts of the southeast and northern areas of the site are developed as agricultural fields with associated structures and access roads.

Early 1960s to Present – The site is developed as a golf course with a residential building in the east. Site development features include a clubhouse, maintenance building, access roads, asphalt-paved parking, and water features. Topographic maps show existing gravel pits in the western part of the site from 1965 through 1987. Aerial maps show similar gravel pits to the west and northwest of the maintenance building from 1963 through 1995. The site has remained similar to its current state since about 1965.

Available Geotechnical Report

We have reviewed a geotechnical engineering report titled “Preliminary Geotechnical Engineering Study” prepared by GZA GeoEnvironmental, Inc. (May 2006). Relevant information is attached in Appendix B. The report includes 21 borings, 22 test pits, and 3 field permeability tests performed around the site. Identified design and construction premiums for the overall site

¹ Zone X (not shaded), “areas of minimal flood hazard” (i.e. outside the 500-year flood)

² Zone X (shaded), “0.2% annual chance flood hazard; areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile” (i.e. 500-year flood)

³ Zone AE, “1% annual chance flood, base flood elevations determined.” (i.e. 100-year flood)

included shallow groundwater reported to the west, shallow refusal on bedrock reported to the north, and potentially liquefiable soils reported to the east.

SUBSURFACE EXPLORATION

Langan performed a subsurface exploration consisting of borings, observation wells, test pits, and infiltration tests throughout the proposed development area. All work was overseen by a Langan field engineer. An exploration location plan is shown in Figure 5.

Borings

Standard Penetration Test (SPT) N-values⁴ were documented and soil samples were generally obtained continuously to a depth of 12 feet and every 5 feet thereafter. Disturbed soil samples were obtained using a standard 2-inch-outer-diameter split-spoon sampler driven by a 140-pound automatic or safety hammer in accordance with ASTM D1586, Standard Penetration Test. See Tables 3 and 4 for additional information regarding the boring program.

Recovered soil samples were visually examined and classified in the field in general accordance with the Unified Soil Classification System (USCS). Soil classifications, N-values, and other field observations were recorded on our field logs provided in Appendix C.

Bedrock was cored in selected borings using a 2-7/8-inch NQ core barrel. The core barrel was equipped with a diamond cutting bit in accordance with ASTM D2113, Rock Core Drilling. Rock type, percent recovery (REC)⁵ and Rock Quality Designation (RQD)⁶ were determined for each the core run.

⁴ The Standard Penetration Test (SPT) is an in situ testing technique used to infer soil density and consistency. The SPT N-value is defined as the number of blows required to drive a 2-inch-diameter split-barrel sampler 12 inches after an initial penetration of 6-inches using a 140-pound hammer falling freely from 30 inches.

⁵ Rock Core Recovery (REC) is defined as the ratio of the total length of rock recovered to the total core run length, expressed as a percent.

⁶ The RQD is defined as the ratio of the summation of each rock piece greater than 4 inches long (for NX cores) to total core run length, expressed as a percent.

Table 3. Summary of Boring Subcontractors

| Date Range | Drilling Companies | Drilling Equipment |
|----------------------------|---|---|
| 1 June to 2 July, 2020* | SoilTesting, Inc. | CME 550X ATV Rig, CME55 Truck-mounted Rig, Deidrich D50 Steel Track Rig |
| | Seaboard Geotechnical & Environmental Drilling Services | Diedrich D50 Track Rig, Mobile Drill B52 Truck-mounted Rig |
| | Atlantic Testing Laboratories Limited | CME75 Track Rig, (2) Geoprobe 7720DT |

*Dates reflect duration of the overall exploration program (i.e. Lots A, B, and C)

Table 4. Summary of Borings

| Total (#) | Subtotal (#) | Boring Locations | Boring ID's | Depth Range (ft) | Elevation Range (Bottom of Boring) |
|-----------|--------------|-------------------------|--|------------------|------------------------------------|
| 116 | 62 | Proposed Building Areas | A-B-BOR-02 to A-B-BOR-12, A-B-BOR-8A, A-B-BOR-14 to A-B-BOR-50, A-B-BOR-19A, A-B-BOR-20A, A-B-BOR-37A, A-B-BOR-101 to A-B-BOR-110 | 9 to 43 | el +92 to +125 |
| | 16 | Proposed Roadway Areas | A-R-BOR-01 to A-R-BOR-09, A-R-BOR-12 to A-R-BOR-14, A-R-BOR-16 to A-R-BOR-19 | 10 to 35 | el +100 to +144 |
| | 38 | Proposed Site Areas | A-S-BOR-01 to A-S-BOR-31, A-S-BOR-33 to A-S-BOR-37, A-S-BOR-33A, A-S-BOR-36A | 6 to 41 | el +103 to +151 |

Test Pits

Test pit were excavated throughout the site to further observe the subsurface soils and to perform infiltration testing. See Tables 5 and 6 for additional information regarding the exploration program. Test Pit logs are provided in Appendix D, and photographs are provided in Appendix E.

Table 5. Summary of Test Pit Subcontractor

| Date Range | Test Pit Company | Test Pit Equipment |
|--------------------------|-------------------------|------------------------------------|
| 29 May to 30 June, 2020* | Polster Industries, LLC | CAT 304E, CAT 305E, Takeuchi TB260 |

*Dates reflect duration of the overall exploration program (i.e. Lots A, B, and C)

Table 6. Summary of Test Pits

| Total (#) | Subtotal (#) | Test Pit Locations | Test Pit ID's | Depth Range (ft) | Elevation Range (Bottom of Test Pit) |
|-----------|--------------|-------------------------|---|------------------|--------------------------------------|
| 49 | 19 | Proposed Building Areas | A-B-TP-01 to A-B-TP-19 | 7 to 9 | el +122 to +139 |
| | 5 | Proposed Roadway Areas | A-R-TP -02 to A-R-TP-04, A-R-TP-06, A-R-TP-07 | 7 to 9 | el +122 to +139 |
| | 25 | Proposed Site Areas | A-S-TP-01 to A-S-TP-25 | 7 to 9 | el +105 to +154 |

Groundwater Observation Wells

Groundwater observation wells were installed throughout the site. See Table 7 for a summary of observation wells installed. Well construction logs are provided in Appendix F.

Table 7. Summary of Observation Wells

| Total (#) | ID | Depth (ft) | Bottom of Observation Well Elevation |
|-----------|-----------------|------------|--------------------------------------|
| 7 | A-B-BOR-17(OW) | 16 | el +114 |
| | A-B-BOR-20(OW) | 18 | el +117 |
| | A-B-BOR-34(OW) | 20 | el +112 |
| | A-B-BOR-37A(OW) | 30 | el +111 |
| | A-B-BOR-40(OW) | 17 | el +128 |
| | A-S-BOR-01(OW) | 16 | el +118 |
| | A-S-BOR-19(OW) | 19 | el +132 |

Lab Testing

Selected samples were sent to a testing laboratory to confirm visual classifications and to determine index properties (physical and mechanical). Testing for chlorides and sulfates was performed at the structural engineer's request. See Table 8 for a summary of the completed laboratory tests. Laboratory results are provided in Appendix G.

Table 8. Laboratory Testing Summary

| Test Description | ASTM Standard | Quantity |
|-------------------------|---------------|----------|
| Grain Size | ASTM D-6913 | 18 |
| Moisture | ASTM D-2216 | 18 |
| Percent Passing No. 200 | ASTM D-1140 | 7 |
| Chlorides | ASTM D-512 | 4 |
| Sulfates | ASTM D-516 | 4 |

SUBSURFACE CONDITIONS

Subsurface Materials

The subsurface conditions generally consist of a surficial layer of topsoil underlain by layers of discontinuous fill, sand/silt, glacial till, weathered rock, and finally bedrock. A summary of subsurface materials is provided in Table 9. A description of subsurface materials encountered is provided below in order of increasing depth.

Table 9. Subsurface Conditions

| Layer | Thickness (feet) | Top Elevation Range | N-Value Range | Average Density | Fines Content (%) | Moisture Content (%) |
|----------------|-----------------------|---------------------|---------------------------|-----------------|---------------------------------|---------------------------------|
| Topsoil | 2-inches to 24-inches | el +158 to +122 | 0 to 28 | Loose | N/A | N/A |
| Fill | 2 to 8 | el +144 to +124 | 6 to 32 | M. Dense | N/A | N/A |
| Sand/Silt | 2 to up to 41 | el +158 to +97 | 3 to Refusal ⁷ | M. Dense | Sand: 1 to 47 Silt: 56 to 88 | Sand: 2 to 19 Silt: 19 to 27 |
| Glacial Till | 1 to up to 20 | el +152 to +96 | 10 to Refusal | V. Dense | 6 | 17 |
| Weathered Rock | 1 to up to 9 | el +123 to +112 | 38 to Refusal | V. Dense | N/A | N/A |
| Bedrock | See Table 10 | | | | | |

⁷ Refusal defined as a minimum of 50 blows per 6 inches.

Topsoil – A layer of topsoil was encountered in 103 borings and all test pit. The topsoil generally consists of brown to dark brown fine to medium sand with varying proportions of gravel, roots, and silt. In the remaining 13 borings, the surficial material was consistent with the fill or natural sand/silt material.

Fill – Below the topsoil, a layer of fill was encountered in eleven borings and one test pit. The fill is generally composed of an orangish brown to brown fine to medium sand with varying amounts of gravel, roots, debris, and silt. Note that higher SPT N-values (Table 9) within the fill layer are likely the result of obstructions (boulders, cobbles, gravel or debris) blocking the sampler. The fill layer is generally classified as poorly graded sand (SP) in accordance with the USCS.

Sand/Silt – Below the fill or topsoil, a layer of sand, with some silty sand and silt pockets, was encountered in all borings. The sand is generally composed of light brown to brown fine to coarse sand with varying amounts of gravel and silt. The silt, which was limited to discrete and discontinuous areas, is generally composed of light brown to brown silt with varying amounts of fine sand and gravel. Note that higher SPT N-values (Table 9) within the sand/silt layer are likely the result of obstructions (boulders, cobbles, or gravel) blocking the sampler. The sand layer, and silty layers within, are generally classified as poorly graded sand (SP), silty sand (SM), and silt (ML) in accordance with the USCS.

Glacial Till – Below the sand/silt, a layer of glacial till was encountered. The glacial till is generally composed of brown to grayish brown fine to coarse sand with varying amounts of gravel, silt, and weathered rock fragments. Note that higher SPT N-values (Table 9) within the glacial till layer are likely the result of obstructions (boulders, cobbles, or gravel) blocking the sampler. The glacial till layer is generally classified as silty sand (SM) in accordance with the USCS.

Weathered Rock – Below the glacial till, a layer of weathered rock was encountered in four borings. The weathered rock is general composed of gray fine to medium sand with varying amounts of silt, fine to coarse gravel, and weathered rock fragments. The weathered rock displayed the structure of the parent rock, had slight discoloration, and broke apart under the pressure of the split spoon.

Bedrock – Below the weathered rock or glacial till, a layer of bedrock was inferred or cored in 45 borings. A summary of encountered bedrock is provided in Table 10. The bedrock consists of gray schist, fine to medium grained, moderately weathered, close to very close fractures, and moderate dipping and horizontal fractures. Up to five-foot-long rock cores were taken in seven borings during our exploration. The REC and RQD of the rock core samples ranged from about 40% to 95% and 0% to 81%, respectively.

Table 10. Summary Bedrock Information

| Location | Bedrock Depth | | | |
|-------------------------|---------------|----------------|------------|-----------------|
| | Cored | | Inferred | |
| | Depth (ft) | Elevation | Depth (ft) | Elevation |
| Proposed Building Areas | 22 to 43 | el +97 to +123 | 12 to 38 | el +96 to +124 |
| Proposed Roadway Areas | 30 | el +105 | 10 to 31 | el +105 to +144 |
| Proposed Site Areas | Not Performed | Not Performed | 7 to 20 | el +116 to +151 |

Groundwater – A summary of groundwater is provided in Table 11. Groundwater, if encountered, should be expected to fluctuate with seasons, precipitation, construction activities, irrigation activities, etc.

Table 11. Summary Groundwater Information

| Location | Groundwater Depth | | | |
|-------------------------|-----------------------------|-----------------|---------------------|-----------------|
| | Observation Wells/Test Pits | | Inferred in Borings | |
| | Depth (ft) | Elevation | Depth (ft) | Elevation |
| Proposed Building Areas | 8 to 20 | el +120 to +123 | 4 to 30 | el +116 to +138 |
| Proposed Roadway Areas | 6 | el +125 | 4 to 15 | el +121 to +140 |
| Proposed Site Areas | 5 to 8 | el +123 to +130 | 4 to 15 | el +107 to +141 |

Infiltration Testing

Infiltration rates were measured in the proposed stormwater systems as specified by the civil engineer. Infiltration tests were performed in accordance with the New Hampshire Code of Administrative Rules (Env-Wq 1500). A summary of average infiltration rates at each location is presented in Table 12. A detailed summary of infiltration tests is provided in Appendix H. Generally, the measured infiltration rates are higher than the rates in the available geotechnical report. Final design infiltration rates should be selected by the civil engineer based on the stormwater system design and allowable infiltration rates.

Table 12. Infiltration Test Results Summary

| Location | Surface Elev. | Test Depth (ft) | Test Elev. | Measured Infiltration Rate (in/hr) | Material Type |
|-----------|---------------|-----------------|------------|------------------------------------|--|
| A-S-TP-01 | 136 | 7 | el +129 | 27 | Light brown fine SAND, trace silt |
| A-S-TP-02 | 133 | 5 | el +128 | 29 | Light brown fine SAND, trace silt |
| A-S-TP-09 | 133 | 2 | el +131 | 51 | Grayish brown fine-medium SAND, some silt, trace fine gravel |
| A-S-TP-15 | 137 | 5 | el +132 | 219 | Brown fine to medium SAND, trace silt |
| A-S-TP-21 | 115 | 3 | el +112 | 23 | Light brown SILT, some fine sand, trace fine gravel |
| A-S-TP-22 | 114 | 4 | el +110 | 30 | Light brown SILT, some fine sand |

Sulfate & Chloride Testing

Chemical analyses were performed on select samples generally obtained from soils within 5 feet of both proposed grades and the finished floor elevation. The soluble sulfate and chloride concentrations were both less than 10 parts-per-million. A summary of laboratory testing is provided in Appendix G. Based on the laboratory testing, the sulfate exposure class⁸ is S0 and the chloride exposure class⁸ is C1 given the presence of groundwater. Consideration could be given to using chloride exposure class C0 for building slabs as a vapor barrier is proposed below.

GEOTECHNICAL DESIGN RECOMMENDATIONS

Additional Explorations & Analysis

As the design progresses, we recommend the following additional exploration and analysis work be performed to advance the geotechnical design and construction recommendations:

- Test pits should be completed along the northern part of Green Meadow Drive as access was not provided during our exploration program.
- Groundwater levels should be obtained throughout design for additional measurements and potential refinements to recommendations for permanent water controls. Additionally, groundwater readings should be collected when watering of the course has

⁸ Exposure class from ACI 318-14.

stopped and after the site irrigation system is decommissioned as leaks in the system or surface-level infiltration from the system may affect groundwater levels.

- Additional design and coordination work should be performed with respect to site underdrain systems.
- Areas of potentially liquefiable soils beneath roadway areas should be further explored and studied.
- The retaining walls will need to be designed by a design engineer registered in New Hampshire. Design should include all internal and external stability checks.
- The water tower foundations will need to be designed by others as this is a delegated design.
- Temporary works for pre-cast/tilt-up wall panels will need to be designed by others as this is a delegated design.

Liquefaction

We evaluated the liquefaction potential of non-cohesive soil below the groundwater table and up to 50 feet below the ground surface (as required by the New Hampshire Building Code) using the procedure outlined by Youd et. al (2001). The Youd et. al method is considered to be the state-of-practice procedure as recommended by the National Earthquake Hazard Reduction Program. The method presents an empirical relationship between the earthquake demand represented by the Cyclic Stress Ratio (CSR), and the soil resistance to dynamic loading represented by the Cyclic Resistance Ratio (CRR). Field N-values are converted to $N_{1,60,cs}$ by applying corrections for hammer energy efficiency, soil overburden pressure, borehole diameter, rod length, sampler lining, and fines content.

The available geotechnical engineering report indicated a potentially liquefiable area to the east (in the vicinity of GZA boring B-18). As part of our subsurface exploration and evaluation, we performed borings in the vicinity of boring B-18 and analyzed the results.

Our analysis was performed on a sample set of borings that were potentially liquefiable across the lot.

Input parameters included a peak ground acceleration of 0.200g (from USGS). Our analysis indicates an adequate factor of safety for liquefaction for explorations advanced within the building footprint. We concluded that liquefaction need not be considered in the design of the building.

Though not seen pervasively throughout the site, potentially liquefiable soils were encountered beneath the southern main entrance drive in three borings (A-R-BOR-12, A-R-BOR-16, and A-R-

BOR-18). We recommend that these areas be further explored and studied confirm the extent of potentially liquefiable soils.

Plots showing factors of safety versus depth are provided as Figures 6 and 7 for the building and roadway/site areas, respectively.

Seismic Design

This section presents seismic design recommendation, in accordance with the 2019 New Hampshire State Building Code (International Building Code 2015). We have considered the soil conditions encountered in the borings to be consistent and representative of the soil conditions in the top 100 feet of soil at this lot.

Table 13. Seismic Design Values

| Description | Parameter | Recommended Value |
|---|----------------------------|-------------------------------|
| Mapped Spectral Acceleration for short periods ¹⁰ : | S_s | 0.238 g |
| Mapped Spectral Acceleration for 1-sec period ¹¹ : | S_1 | 0.075 g |
| Site Class: | -- | D – Stiff Soil Profile |
| Site Coefficient: | F_a | 1.6 |
| Site Coefficient: | F_v | 2.4 |
| 5% damped design spectral response acceleration at short periods: | S_{DS} | 0.254 g |
| 5% damped design spectral response acceleration at 1-sec period: | S_{D1} | 0.120 g |
| Anticipated Risk Category | -- | II |
| Seismic Design Category | -- | B |

Based on the above spectral accelerations and the anticipated risk category, we have estimated the Seismic Design Category (SDC). The structural engineer is responsible for confirming the appropriate use group, occupancy category, and final SDC for the proposed structure.

Building Foundations

At the on-set of the project, the team discussed the potential alternate to support the proposed mezzanine areas (i.e. higher load areas) on a shallow foundation system bearing on ground improvement with an allowable bearing pressure of 6,000 pounds per square foot (psf). As the

¹⁰ Value obtained from AT Council Hazards by Location as provided by the USGS.

¹¹ Value obtained from AT Council Hazards by Location as provided by the USGS.

design progressed and preliminary cost information was obtained Hillwood, the cost premium for ground improvement outweighed the cost savings versus the recommendations outlined below. Therefore, ground improvement is no longer being contemplated for the mezzanine area. If ground improvement is desired as the design progresses, we can provide supplemental recommendations.

The materials encountered at the anticipated footing elevation consist of fill, sand/silt or glacial till. The existing fill is not suitable for foundation support and should be removed and replaced as outlined below prior to footing construction as outlined here. The proposed structure and guard house can be supported on shallow foundations bearing on structural fill, sand/silt, compacted existing fill, or glacial till using an allowable bearing pressure of 3,000 psf. Footing subgrades should be prepared in accordance with the Subgrade Preparation section of this report.

All exterior footings should be constructed 48 inches or deeper below the lowest adjacent grade for frost protection. Interior footings in heated spaces may be constructed at a convenient depth below the slab; however, all bottoms of footings should be at least 1.5 feet below the finished-floor elevation. Interior footings in non-heated spaces, or where frost protection is not provided throughout construction, should be protected from frost (e.g., lowering footings, backfilling, heaters/blankets, etc.).

Isolated column footings should have a minimum dimension of 3 feet, and strip footings should have a minimum width of 2 feet even if smaller dimensions can be justified using the recommended allowable bearing pressure.

Foundations should not be located so that one foundation is within the zone of influence of an adjacent foundation. The zone of influence is taken as a 1H:1V projection extending outward and downward from the edge of the foundation.

Building Settlement

Total settlement of the structure is estimated to be on the order of 1 inch or less, provided the bearing pressure recommended here is used and the subgrade preparation work described here is performed. Differential settlements of adjacent new structure columns are expected to be about ½ inch. The majority of the settlement is expected to take place during construction.

Water Tower

The design engineer of record should confirm that the bearing capacity and calculated settlements (based on the water tower loads) are acceptable for use with a shallow foundation design. If not, the water tower design engineer of record should determine if supplemental

foundation recommendations are required. Ground improvement to achieve higher bearing capacities may be required.

Given the design of the water tower is not finalized, we recommend that an allowance for ground improvement (stone columns up to 25 feet long) be provided for initial cost estimating until a final design can be prepared by others.

Building Floor Slabs

We recommend that ground-floor slabs be constructed as a slab-on-grade bearing on natural soils, structural fill, or compacted existing fill prepared in accordance with the recommendations here. The slab-on-grade supporting short-term loads over smaller areas (e.g., vehicle wheel loads)¹² should be designed for a modulus of subgrade reaction of 125 pounds per cubic inch (pci). The slab-on-grade supporting long-term loads over larger areas (e.g., uniform or rack loading) should be designed for a reduced modulus of subgrade reaction of 80 pci.

We recommend a minimum 6-inch-thick layer of $\frac{3}{4}$ -inch clean crushed stone be included beneath the slabs to protect the prepared subgrade and to serve as a capillary break.

A vapor barrier should be used below the ground-floor slab to limit transmission of water vapor through the slab. We recommend a vapor barrier with a minimum thickness of 20 mils. Omission of a vapor barrier can lead to floor-covering problems including delamination and mold. The contractor may elect to place up to 4-inches of a fine to medium sand (i.e., stone dust) above the vapor barrier for slab constructability considerations. The sand layer should have a maximum particle diameter of $\frac{3}{16}$ -inch and should consist of hard durable sand free from ice, snow, roots, sod, and other deleterious matter. The vapor barrier should be coordinated with any environmental requirements for the development.

Permanent Groundwater Control

Building Areas

Perimeter wall and footing drains should be installed to divert groundwater flow away from the structure during prolonged precipitation, snowmelt, or utility breaks. Manufactured geocomposite drainage panels or a 12-inch-wide layer of $\frac{3}{4}$ -inch washed crushed stone should be installed against the outside of all perimeter walls and should extend to within 1 foot of adjacent surface grade. In the truck court areas, gravel should be used. The drainage panels (or washed crushed stone) should connect to a perforated footing drain at the base of the footing having a minimum diameter of 6 inches. The footing drains should be connected to the site

¹² "Engineering Bulletin, Modulus of Subgrade Reaction – Which One Should be Used?" by Structural Services, Inc. (8 April 2016).

stormwater system and where possible drain by gravity. Where used, drainage panels should be secured in place and the filter-fabric side must face the soil. If washed crushed stone is used, it should be wrapped with a geotextile filter fabric.

Additionally, we recommend a perforated pipe, having a minimum diameter of 6 inches, be located on the in-board side of the truck-court foundation wall (western side of the building) at the bottom of footing elevation. The pipe should be routed to the site stormwater system. A 12-inch-thick gravel (3/4-inch washed, crushed stone) trench wrapped in filter fabric should encapsulate the perforated pipe and extend from the bottom of footing to bottom of slab elevation.

As noted, the grading plans are currently being finalized. We recommend modeling anticipated post construction groundwater elevations to determine if permanent dewatering measures for site features (sub-slab underdrain, pavement underdrains, etc.) are required.

Groundwater levels (el +116 to +138) are below the proposed top of slab elevation (el +143). As such, we don't expect permanent dewatering measures for the building at this time.

Site Areas

Groundwater was encountered to the west of the building above and within 4 feet of the proposed pavement and truck court grades for about 150,000 square feet of the overall pavement footprint. We recommend that allowances and unit rates be carried for permanent dewatering measures at this point in the design (i.e. pavement underdrains). The pavement underdrain design will be included on the civil plans.

Underdrains should consist of a minimum of a 12-inch-thick gravel layer (3/4-inch washed, crush stone) beneath the pavement. Filter fabric should be placed between the soil subgrade and the stone. Within the stone, an inter-connected grid network of 6-inch diameter SCH-80 PVC pipes should be placed. The pipes should be spaced at 20 feet on-center. The pipes should be routed to the site stormwater system to discharge via gravity.

Pavement Design

We have provided recommendations for minimum asphalt-pavement sections using 115% of the daily traffic loading provided by the traffic engineer (Langan) detailed in Table 14. The pavement sections were designed using a California Bearing Ratio (CBR) of 10 for proofrolled site soils or properly placed compacted fill. CBR testing must be performed in pavement areas at the start of construction to confirm the design assumptions. A life expectancy of 20 years was used for flexible pavements and 30 years for rigid pavements. Pavement design calculations are provided in Appendix I. Refer to subsequent sections for subgrade preparation procedures.

We have prepared the following site-wide (i.e. all three lots) pavement design recommendations for the overall site.

Table 14: Proposed Daily Traffic Loading

| Area | Passenger Cars (#) | | Light Trucks (#) | | Tractor Trailers (#) | |
|---|--------------------|--------------|------------------|-------------|----------------------|-------------|
| | Proposed | 115% | Proposed | 115% | Proposed | 115% |
| Lot A: | 651 | 749 | n/a | n/a | 131 | 151 |
| Lot B: | 326 | 375 | 25 | 29 | 40 | 46 |
| Lot C: | 354 | 407 | n/a | n/a | 60 | 69 |
| Northern Access Roadway (Walmart Blvd.): | 390 | 449 | n/a | n/a | 131 | 151 |
| Southern Access Roadway (Green Meadow Drive): | 941 | 1,082 | 25 | 29 | 100 | 115 |

Table 15: Standard & Heavy Duty Flexible Pavement Sections (Site Areas)

| Material | Thickness (in) | |
|---|---|------------------------------|
| | Standard Duty | Heavy Duty |
| Area: | Passenger car drive aisles & parking stalls | Access drives & truck courts |
| Top (Finish) Course: | 2.0 inches | 2.0 inches |
| Asphalt Pavement Binder Course: | 2.0 inches | 3.0 inches |
| Processed Aggregate and Gravel (NH DOT Item No. 304.3): | 8.0 inches | 12.0 inches |
| One pavement design provided for all three lots. Lots A and C control the pavement design. Traffic loading for Lot A used in the pavement calculations. | | |
| Processed aggregate and gravel course has been increased by 2 inches from the minimum calculated pavement sections given the anticipated underlying loose fine sands. | | |

Table 16: Standard, Heavy, Extra Heavy Duty Rigid Pavement Sections (Site Areas)

| Material | Thickness (in) / Materials | | |
|--|---|------------------------------|---------------------------------------|
| | Standard Duty | Heavy Duty | Extra Heavy Duty |
| Area: | Passenger car drive aisles & parking stalls | Access drives & truck courts | Dolly pads & loading/unloading aprons |
| Concrete (4,500 psi 28-day strength, 6% air-entrained, chloride resistant): | 5.0 | 8.0 | 8.0* |
| Processed Aggregate and Gravel (NH DOT Item No. 304.3): | 6.0 | 8.0 | 8.0 |
| Continuous Reinforcing Each Way: | #3 bar at 22-inch on-center | #3 bar at 16-inch on-center | #3 bar at 16-inch on-center |
| Per the design criteria, dowels are to be used at construction joints. | | | |
| Minimum calculated design heavy and extra heavy duty rigid pavement sections increased to match the design criteria minimum cross-section (8.0 inches of concrete and 6.0 inches of processed aggregate and gravel). | | | |
| Processed aggregate and gravel course has been increased by 2 inches from the minimum calculated/design criteria pavement sections given the anticipated underlying loose fine sands. | | | |
| *Extra heavy duty rigid pavement shall be enhanced with a minimum of 7.5 pounds of synthetic macrofibers per cubic yard of concrete. | | | |

Table 17. Heavy Duty Flexible Pavement Section (Roadways)

| Material | Thickness (in) | |
|--|--|---|
| | Northern Access Roadway (Walmart Blvd.) | Southern Access Roadway (Green Meadow Drive) |
| Top (Finish) Course: | 1.5 | 1.5 |
| Asphalt Pavement Binder Course: | 2.5 | 2.5 |
| Crushed Gravel (NH DOT Item No. 304.2): | 6.0 | 6.0 |
| Gravel (NH DOT Item No. 304.3): | 12.0 | 12.0 |
| Minimum calculated design pavement section increased to match the Town of Hudson minimum typical cross-section for subdivision streets (commercial/industrial) Town of Hudson Engineering Department, Engineering Technical Guidelines & Typical Details, Detail R-1 (revised February 2020) (4 inches of hot bituminous pavement, 6 inches of crushed gravel, and 12 inches of gravel). | | |

Retaining Walls

Site fill-retaining walls may be designed as geogrid reinforced modular block walls (such as Mesa, Keystone, Versa-lok, or Redi-Rock type walls) or gravity-type retaining walls, depending on the location and size of the proposed wall.

Retaining walls can be designed using a moist unit weight of 130 pounds per cubic foot and a drained angle of internal friction of 30°. Site retaining walls, where movement is acceptable, can be designed using active earth pressures. Walls where movement cannot be tolerated should be designed for at-rest earth pressures. The parameters described above presume (1) the wall backfill materials (i.e., within the reinforced zones) are select imported granular soils, (2) full drainage is provided behind the reinforced zone and wall facing to prevent the buildup of hydrostatic pressure, (3) that surface loads at the top of the retaining walls will consist of parking and driving areas and vehicles, and (4) the slope at the top of the retaining wall is level. Presuming the aforementioned fill, fill placement, and compaction requirements are adhered to, a coefficient of active earth pressure ($K_a = 0.33$) or a coefficient of at-rest earth pressure ($K_o = 0.50$) can be used as appropriate. The fill used may consist of imported materials that satisfy the minimum strength parameters specified here and gradation requirements specified by the wall designer. Design parameters should be confirmed during construction via laboratory testing on the actual proposed backfill materials, and adjustment of the pressures should be made by the designer where appropriate to consider these factors.

Retaining-wall foundations should bear on natural soils (if fill or silt is encountered it should be fully removed and replaced) or well-compacted structural/engineered fill compacted with at least six coverages of a minimum 5-ton static-drum-weight vibratory roller. Soft or otherwise unsuitable natural or fill identified by the geotechnical engineer in the field during proofrolling and compaction should be removed and replaced with approved compacted structural/engineered fill. Backfill behind the walls should be placed as discussed in the Fill Materials, Placement and Compaction Criteria section of this report. Over-compaction should be avoided behind the walls.

The proposed retaining wall design (including calculations and global stability and groundwater mounding analyses) and construction means and methods should be provided and signed and sealed by a Professional Engineer licensed in the State of New Hampshire.

GEOTECHNICAL CONSTRUCTION RECOMMENDATIONS

Site Preparation

All existing foundations, floor slabs, and utilities should be completely removed within 10 feet of the proposed footprint. Given the current use of the site, we expect below-grade irrigation infrastructure to be encountered throughout the lot. Below grade structures outside the building footprint can be abandoned in place provided they are removed to at least 3 feet below finished subgrade levels, 2 feet below proposed utilities, and to eliminate conflicts with new utilities or structures. Slabs left in place should be sufficiently broken up to allow water to drain and so that a geotechnical engineer can observe whether voids exist beneath the slab. Existing asphalt pavement and concrete walkways should be completely removed.

Existing utilities within the building footprint should be completely removed. Existing utilities outside of the proposed building footprint should be removed or abandoned in place by completely filling with grout.

Excavations made to remove below grade elements should be backfilled with approved, compacted fill in accordance with the Excavation, Fill, Placement, and Compaction Criteria section of this report and any environmental requirements.

Clearing and grubbing of trees and vegetation designated for removal (including root systems) should be performed. Buried debris should be completely removed beneath proposed building slab, footing, and pavement locations. Given the former and current uses of the site, bury holes with topsoil, tree stumps, or similar unknown objects should be expected throughout. Topsoil should be stripped from the proposed building and pavement areas and should be stockpiled and protected from erosion. Topsoil will be evaluated by the landscape architect (Langan) for reuse in landscape areas and coordinated with the environmental engineer (Langan). All clearing and stripping activities should be performed in strict accordance with the approved soil-erosion and sediment-control plan and the environmental reports prepared for the project.

Existing wetlands slated for removal should be completely dewatered at the on-set and maintained dry during backfilling activities. Once dewatered, all organic and silty materials should be completely removed to the top of natural granular soils, weathered rock, or bedrock. A choker 2-foot-thick layer of 3- to 6-inch diameter stone should be placed at the subgrade. A layer of filter fabric should be placed above the stone. The resulting excavation should be backfilled with structural fill as described here.

All demolition and site-clearing work should be performed in accordance with any environmental requirements established for the site, and all local, state, and federal regulations. All debris and trees and other vegetation should be properly disposed of off-site in accordance with applicable regulations. All construction work should be performed so as not to adversely impact the neighboring buildings, off site structures or utilities, including the existing utilities and trees that are to remain. Protection of these elements should be provided as necessary. Before beginning grading or placing fill, any miscellaneous trash, debris, or other unsuitable materials should be removed from the site.

Subgrade Preparation

All soil footing and utility-trench subgrades should be proofrolled with six overlapping coverages of a double-drum 1-ton walk-behind vibratory roller (such as a Bomag BW75 or equivalent).

All slab subgrade areas should be proofrolled with six overlapping coverages of a vibratory drum roller having a minimum static drum weight of 10 tons. Once the slab is fully compacted, a proofroll with a fully loaded dump truck should be performed. The maximum acceptable

depression under the fully loaded dump truck is ½ inch. If depressions greater than a ½ inch are observed, corrective action must be taken by the contractor.

Soft areas identified during proofrolling should be excavated and replaced with approved structural fill. The actual extent of necessary removal and replacement should be determined by a qualified Langan geotechnical engineer. Care should be taken when proofrolling near any existing underground utilities that are to remain.

Soil footing subgrades should be excavated level and if any cobbles or boulders are encountered at the footing subgrade level such that a relatively level subgrade is not achieved, the cobbles or boulders should be removed and replaced with compacted structural fill, compacted ¾-inch crushed stone, or lean concrete. All soil subgrades for footings or slabs should be compacted to the project specified compaction criteria.

If foundations are not poured in a timely manner, the subgrade should be protected with a lean-concrete mud mat to protect the footing subgrades.

Steps should be taken by the contractor to control and remove surface-water runoff and precipitation. When soil is wet and subjected to construction traffic, previously acceptable subgrades can soften and become unacceptable. A smooth-drum roller should be used to seal the surface and provide for better drainage. We also recommend crowning or sloping the subgrade to provide positive drainage off the subgrades.

Removal/Replacement & Ground Improvement

Within the proposed building footprint, granular fill soils were encountered in explorations A-B-BOR-32 and A-B-BOR-43 extending to about el +138 and +124, respectively. A discontinuous layer of buried topsoil was encountered below the granular fill at exploration A-B-BOR-32. A minimum of 3 feet of the miscellaneous fill should be removed. The buried topsoil should be removed in its entirety.

Within the foundation zone of influence (i.e. 1H to 1V downward projection from the edge of footing), the following materials should be completely removed. The resulting subgrade material should be proofrolled in accordance with the Subgrade Preparation section outlined herein. The resulting excavation should be backfilled with structural fill in compacted lifts.

Placement of additional fill materials in foundation areas, if required, should be performed in accordance with the Excavation, Fill, Placement, and Compaction Criteria recommendations outlined herein.

To address the areas where potentially liquefiable soils were encountered beneath the roadways, we recommend that an allowance for ground improvement (stone columns, jet grouting, etc.) or be carried in the contractor bids.

Excavation, Fill, Placement, and Compaction Criteria

Excavation through the fill and the underlying sand/silt and glacial till can likely be performed using conventional earthmoving equipment (e.g., backhoes, excavators, dozers, etc.). Excavations made for footings and utilities should be conducted to minimize disturbance to the subgrade (i.e., backhoe with a smooth-edge bucket). Larger equipment may be required for removal of obstructions such as boulders, etc.

Within the proposed building footprint, the top of competent rock (either refusal of the drilling equipment or rock coring) was encountered from about el +96 to +124. Based on a proposed finished floor elevation of el +143, rock removal within the proposed building is not anticipated.

Within the proposed roadway and site areas, the top of competent rock (either refusal of the drilling equipment or rock coring) was encountered from about el +105 to +151. Based on the current site grading, rock removal may be required to the north in the parking areas.

- Bedrock should be removed to a minimum of 6 inches below the proposed pavement section a minimum of 10 feet horizontal feet beyond. The resulting excavation should be backfilled with compacted $\frac{3}{4}$ -inch stone. A layer of filter fabric should be placed between the $\frac{3}{4}$ -inch stone and the pavement section.

Rock excavation techniques will be required to excavate to the required elevations. Blasting may be required. The actual means and methods required for rock excavation should be selected by the contractor based upon experience and capabilities. All blasting should be performed in accordance with the applicable state and local regulations and in a manner such that no on-site or off-site structures or features are adversely impacted.

All excavations should be properly sloped or braced and conform with applicable OSHA regulations including, but not limited to, temporary shoring, trench boxes, temporary rock stabilization, or proper benching or both.

All excavation and backfilling must be performed in accordance with the project environmental engineer's recommendations.

The following types of fill can be used.

Structural Fill – Structural fill should be well-graded sand and gravel having a maximum particle size of 3 inches and no more than 10% passing the No. 200 sieve. Additionally, the structural fill should be free of organics, clay, roots, concrete, other non-soil constituents, and other deleterious or compressible materials. Any approved imported structural fill

should be “certified clean fill” free of hazardous substances and meeting all local, state, federal and the New Hampshire Department Environmental Services regulations.

Material Reuse – The contractor may reuse the on-site granular fill, sand, or glacial till as structural fill provided the soils meet the requirements for structural fill outlined above and is approved by the environmental engineer. The silt may not be used as structural fill. Note that samples obtained within the fill, sand, and glacial till layers have a fines content (material passing the No. 200 sieve) ranging from about 1% to 47%; therefore, select soils will be sensitive to moisture. The overall amount of soil that can be reused will be dependent on the amount of fines present within the soil, the contractor’s ability to add stone, the time of year the earthwork is carried out (e.g., potentially inclement weather), and the ability of the earthwork contractor to stage, aerate and process the material to facilitate placement and compaction. The existing shallow sand generally has a uniform gradation and low silt content (poorly graded) which may be difficult to compact to specifications without systematic application of water to each layer or blending the material to create a well-graded fill. In addition, the contractor may need to place the material in thinner lifts to achieve the compaction requirements specified herein.

General Fill – On-site soils not meeting the requirements for structural fill can be used as general fill for site landscape and other nonstructural areas (e.g., landscaped areas) if environmentally suitable for reuse. The fill and silt layers may be used as general fill, if required.

Compaction Criteria – All fill should be placed in uniform 12-inch-thick loose lifts and compacted. Fill in landscaped areas should be compacted to 90% of its maximum dry unit weight as determined by ASTM D1557; all other fill should be compacted to at least 95%. In restricted areas where only hand-operated compactors can be used, the maximum lift thickness should be limited to 8 inches. The appropriate water content at the time of compaction should be plus or minus 2% points of optimum as determined by the laboratory compaction tests of proposed fill. No backfill should be placed on areas where free water is standing or on frozen subsoil areas.

Groundwater Control

Across the lot, groundwater was encountered from about el +107 to +141. Based on the proposed grades, we expect that groundwater will be encountered to the north and west of the proposed building. Temporary groundwater control in this area, and potentially throughout the site, will be required.

We anticipate that dewatering will be required during construction. Water infiltration to the foundation excavation can likely be controlled using gravity-fed sump pumps via gravel trenches or sumps assisted with collector trenches. Deeper systems such as well points may be required. The final dewatering measures required should be evaluated and designed by the contractor. The dewatering measures implemented should adequately dewater all foundation-related excavations such that compaction of footing subgrades is feasible.

Collection of rainwater runoff will also be needed during the excavation of the removal and replacement program and during the subgrade preparation work. Water runoff is expected to be controlled with the use of gravel-lined collection trenches, pits and submersible pumps. Care should be taken to ensure that drainage is provided during all phases of excavation work. Environmental pretreatment of groundwater, if necessary, is beyond the scope of this study. Collected water should be discharged in accordance with applicable regulations and any environmental requirements.

SERVICES DURING DESIGN, CONSTRUCTION DOCUMENTS AND CONSTRUCTION QUALITY ASSURANCE

During final design, Langan should be retained to consult with the design team as geotechnical questions arise. Technical specifications and design drawings should incorporate our recommendations. When authorized, we will assist the design team in preparing specification sections related to geotechnical issues such as earthwork, shallow foundations, backfill, retaining walls, and excavation support. Langan should also, when authorized, review the project plans and contractor submittals relating to materials and construction procedures for geotechnical work to confirm the designs incorporate the intent of our recommendations.

Langan has explored and interpreted the site subsurface conditions and developed the foundation design recommendations contained here, and is therefore best suited to perform quality-assurance observation and testing of geotechnical-related work during construction. The work requiring quality-assurance confirmation or special inspections per the Building Code includes, but is not limited to, earthwork, shallow foundations, backfill, retaining walls, and excavation support.

Recognizing that construction observation is the final stage of geotechnical design, quality-assurance observation during construction by Langan is necessary to confirm the design assumptions and design elements, to maintain our continuity of responsibility on this project, and allow us to make changes to our recommendations, as necessary. The foundation system and general geotechnical construction methods recommended herein are predicated upon Langan's assisting with the final design and providing construction observation services for the owner. If Langan is not retained for these services, we cannot assume the role of geotechnical engineer

of record, and the entity providing the final design and construction observation services must serve as the engineer of record.

LIMITATIONS

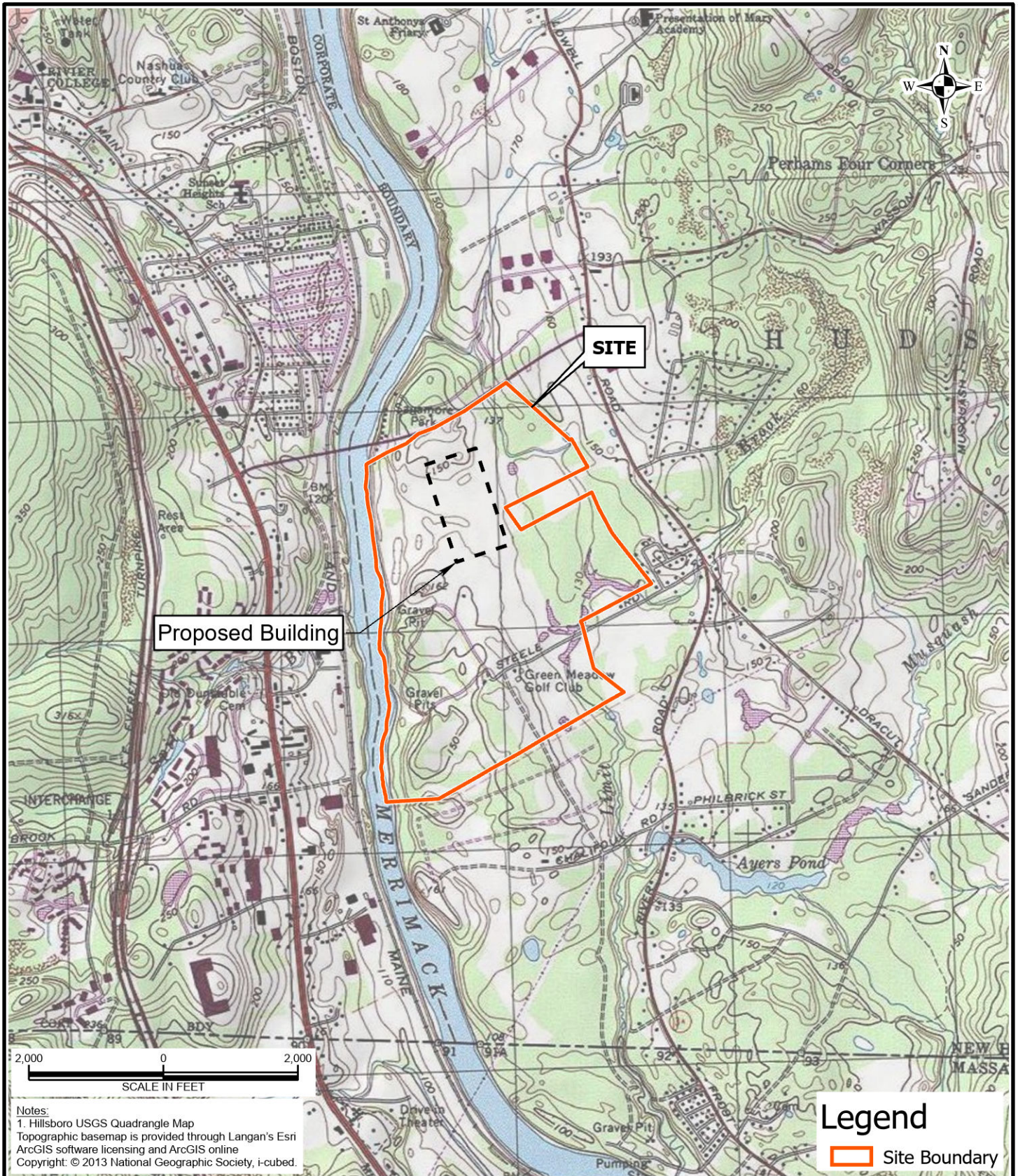
The conclusions and recommendations provided in this report result from our interpretation of the geotechnical conditions existing at the site inferred from a limited number of borings and test pits, and information provided by Hillwood. Actual subsurface conditions may vary. Recommendations provided are dependent upon one another and no recommendation should be followed independent of the others.

Any proposed changes in structures or their locations should be brought to Langan's attention as soon as possible so we can determine whether such changes affect our recommendations. Information on subsurface strata and groundwater levels shown on the logs represent conditions encountered only at the locations indicated and at the time of our exploration. If different conditions are encountered during construction, they should immediately be brought to Langan's attention for evaluation because they might affect our recommendations.

This report has been prepared to assist the owner, architect, and structural engineer in the design process and is only applicable to the design of the specific project identified. The information in this report cannot be used or depended on by engineers or contractors involved in evaluations or designs of facilities (including underpinning, grouting, stabilization, etc.) on adjacent properties beyond the limits of that which is the specific subject of this report.

Environmental issues (such as permitting or potentially contaminated soil and groundwater) are outside the scope of this study and are addressed in a separate Langan evaluation.

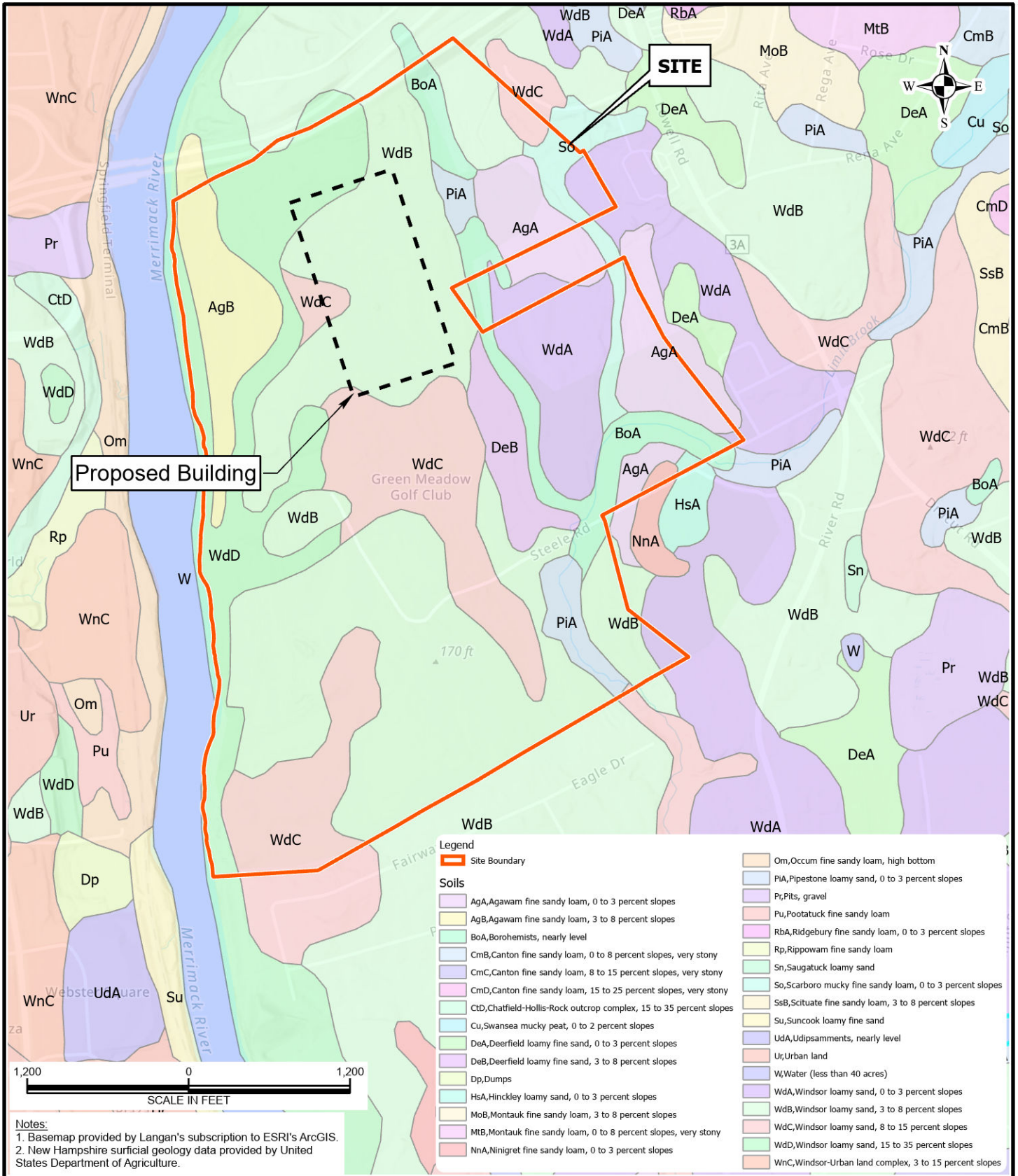
FIGURES



Notes:
 1. Hillsboro USGS Quadrangle Map
 Topographic basemap is provided through Langan's Esri ArcGIS software licensing and ArcGIS online
 Copyright: © 2013 National Geographic Society, i-cubed.

Legend
 Site Boundary

| | | | | |
|---|--|----------------------|---|--------|
| 888 Boylston Street, Suite 510 Boston, MA 02199 T: 617.824.9100 F: 617.824.9101 www.langan.com Langan Engineering & Environmental Services, Inc. Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. Langan MA, Inc. Langan International LLC Collectively known as Langan | Project | Drawing Title | Project No. 151010101 | Figure |
| | HUDSON LOGISTICS CENTER HUDSON NEW HAMPSHIRE | SITE LOCATION | Date 07/20/2020 Scale 1" = 2000' Drawn By EB | 1 |



LANGAN
 888 Boylston Street, Suite 510
 Boston, MA 02199
 T: 617.824.9100 F: 617.824.9101 www.langan.com

Langan Engineering & Environmental Services, Inc.
 Langan Engineering, Environmental, Surveying and
 Landscape Architecture, D.P.C.
 Langan MA, Inc.
 Langan International LLC
 Collectively known as Langan

Project

HUDSON LOGISTICS CENTER

HUDSON NEW HAMPSHIRE

Drawing Title

SURFICIAL GEOLOGY

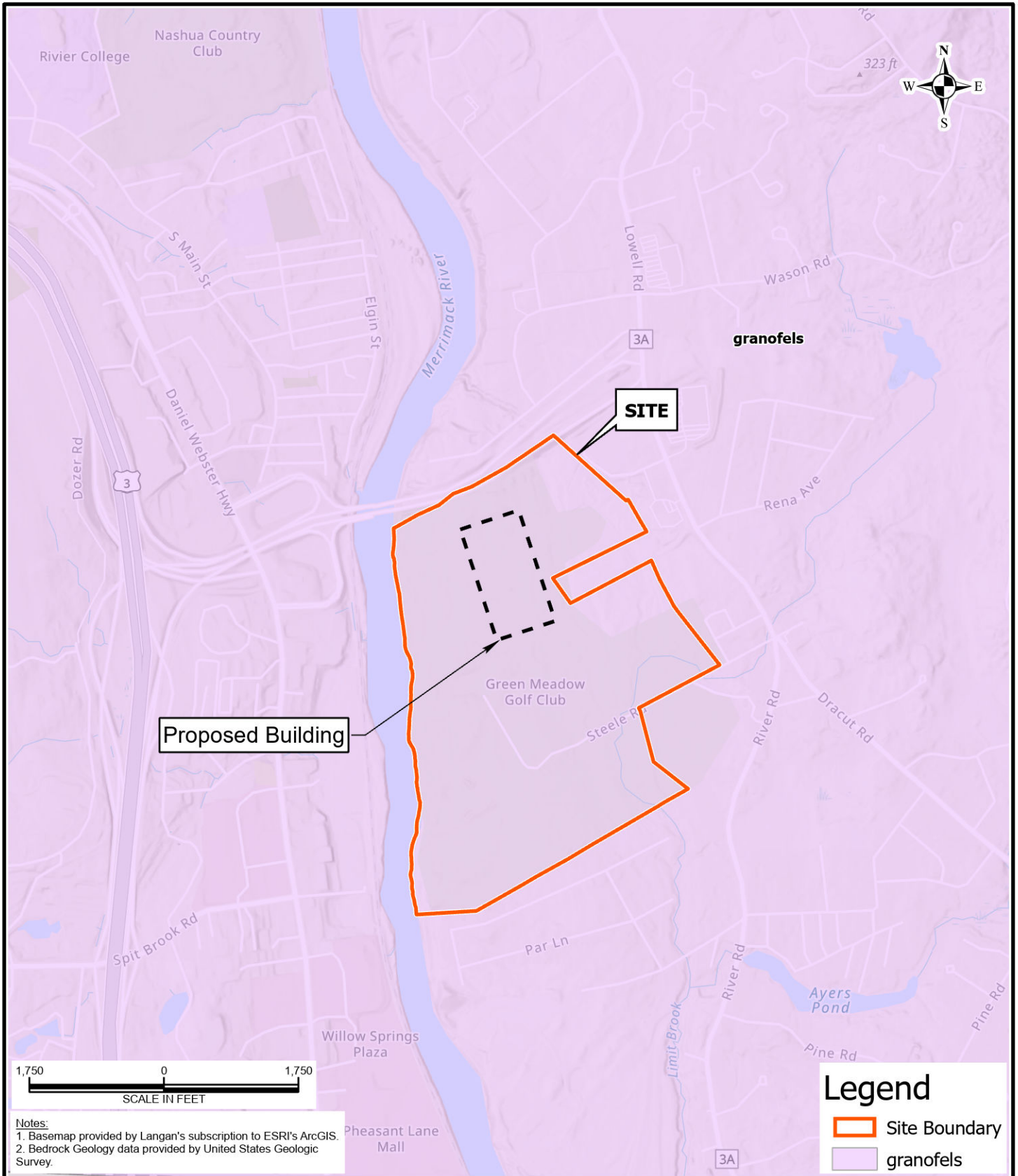
Project No.
151010101

Date
07/20/2020

Scale
1" = 1200'

Drawn By
EB

Figure
2

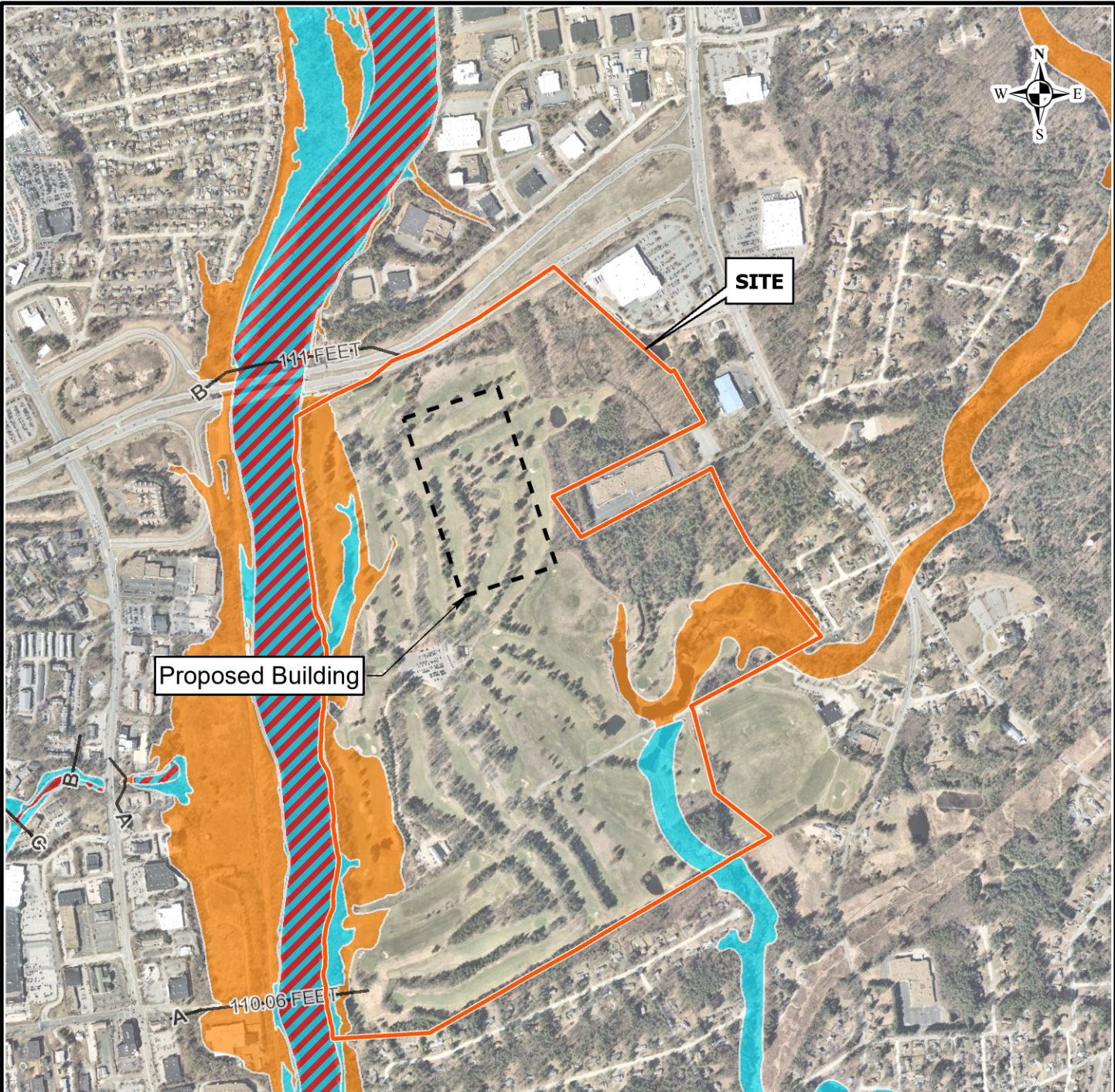


Notes:
 1. Basemap provided by Langan's subscription to ESRI's ArcGIS.
 2. Bedrock Geology data provided by United States Geologic Survey.

Legend

- Site Boundary
- granofels

| | | | | |
|--|--|--|--|-------------------------------|
| <p>LANGAN 888 Boylston Street, Suite 510 Boston, MA 02199 T: 617.824.9100 F: 617.824.9101 www.langan.com</p> <p>Langan Engineering & Environmental Services, Inc. Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. Langan MA, Inc. Langan International LLC Collectively known as Langan</p> | <p>Project</p> <p>HUDSON LOGISTICS CENTER</p> <p>HUDSON NEW HAMPSHIRE</p> | <p>Drawing Title</p> <p>BEDROCK GEOLOGY</p> | <p>Project No. 151010101</p> <p>Date 07/20/2020</p> <p>Scale 1" = 1750'</p> <p>Drawn By EB</p> | <p>Figure</p> <p>3</p> |
| | <p>© 2013 Langan</p> | | | |



Legend

| | | | |
|---------------------|--|--|---|
| Site Boundary | | | Special Floodway |
| FEMA Effective FIRM | | | Area of Undetermined Flood Hazard |
| Flood Hazard Zones | | | 0.2% Annual Chance Flood Hazard |
| | | | Future Conditions 1% Annual Chance Flood Hazard |
| | | | Area with Reduced Risk Due to Levee |
| | | | Regulatory Floodway |

Notes:
 1. Basemap provided by Langan's subscription to ArcGIS.
 2. Effective FEMA FIRM data provided by Federal Emergency Management Agency.

SCALE IN FEET
 1,200 0 1,200

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 Langan Engineering, Environmental, Surveying and
 Landscape Architecture, D.P.C.
 Langan MA, Inc.
 Langan International LLC
 Collectively known as Langan

Project

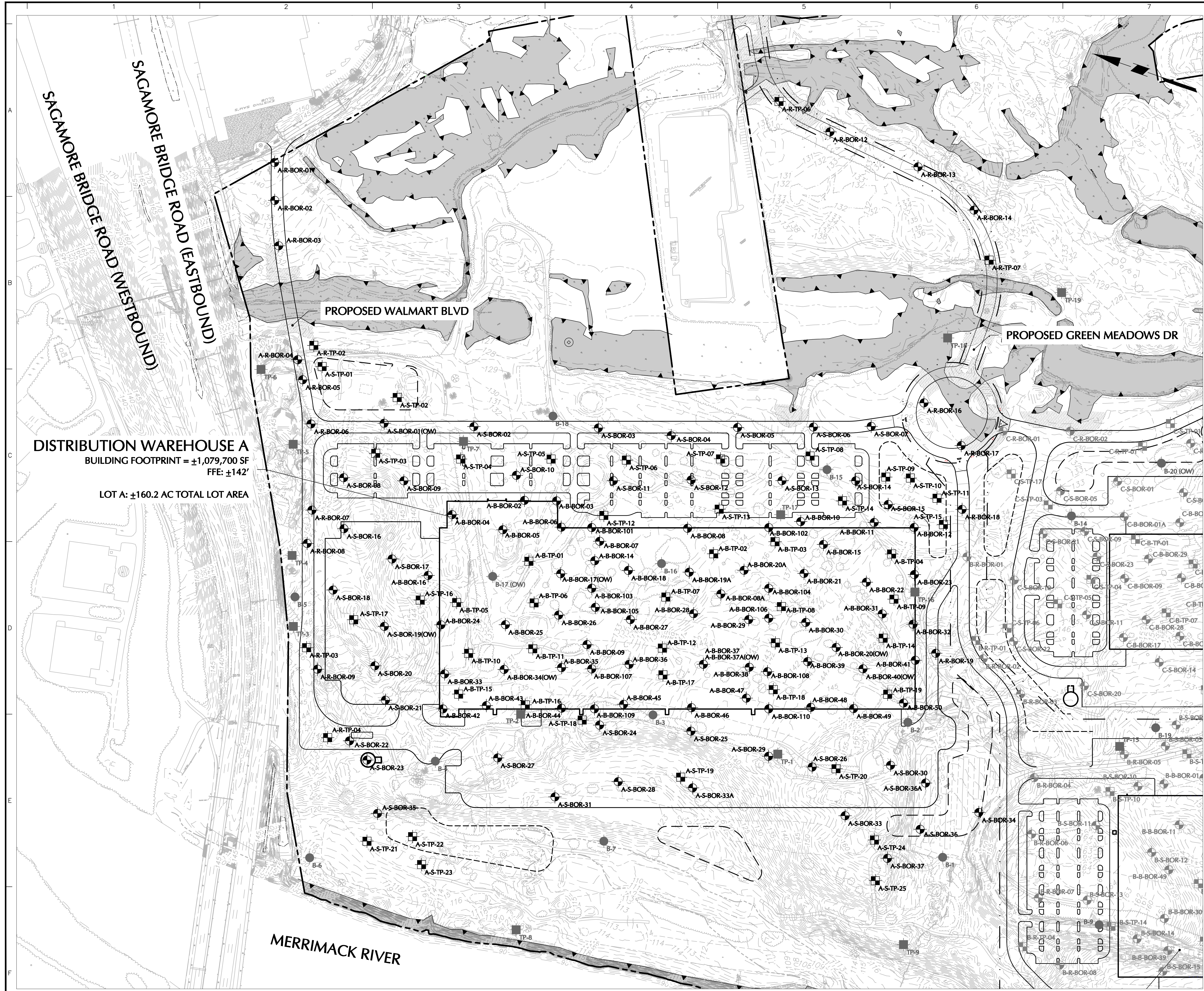
**HUDSON
 LOGISTICS CENTER**

HUDSON NEW HAMPSHIRE

Drawing Title

**EFFECTIVE
 FEMA FIRM**

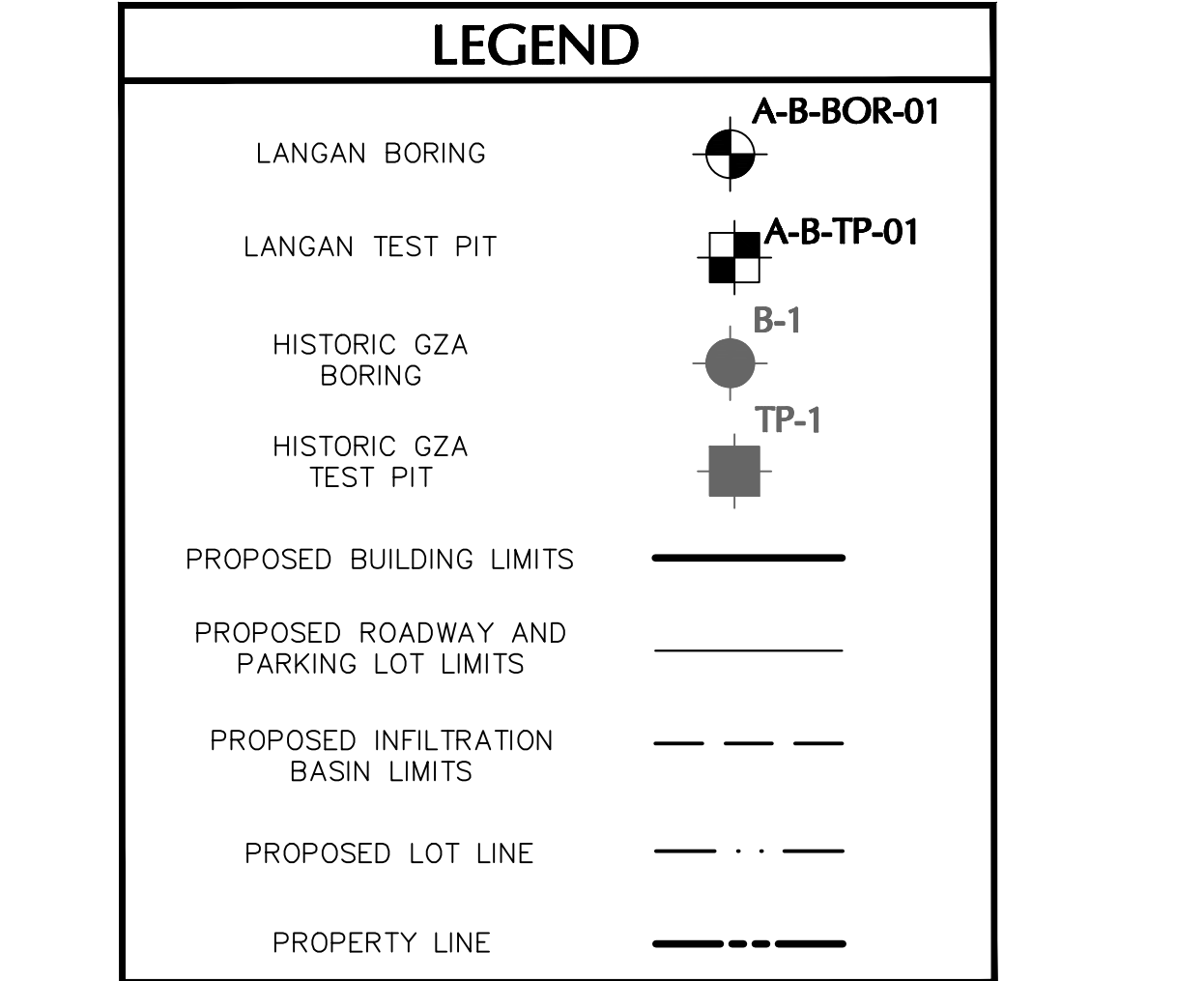
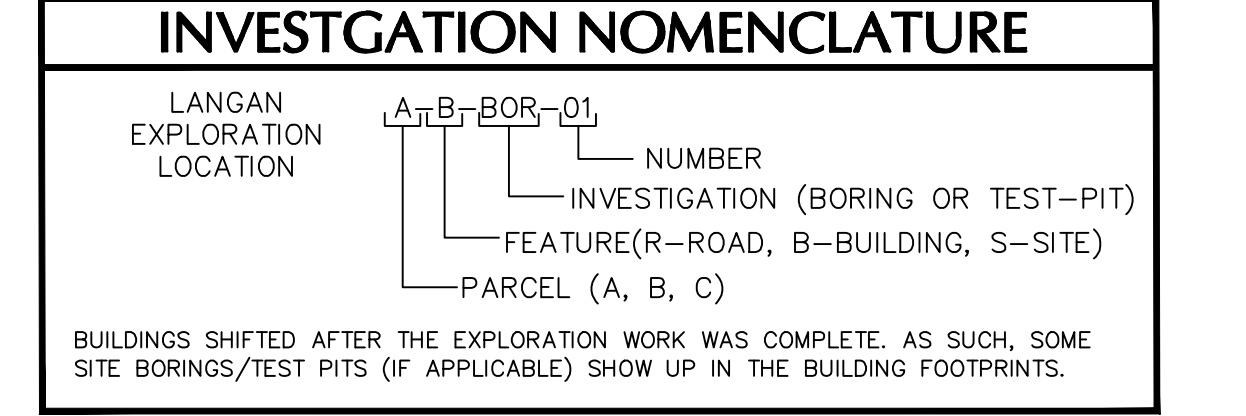
| | |
|--------------------------|------------------------|
| Project No. 151010101 | Figure 4 |
| Date 07/20/2020 | |
| Scale 1" = 1200' | |
| Drawn By EB | |



DISTRIBUTION WAREHOUSE A
 BUILDING FOOTPRINT = ±1,079,700 SF
 FFE: ±142'
 LOT A: ±160.2 AC TOTAL LOT AREA

- ### NOTES
- ALL BORING, TEST PIT, AND OBSERVATION WELL LOCATIONS ARE APPROXIMATE.
 - BASE MAP INFORMATION OBTAINED FROM "TOPOGRAPHIC SUBDIVISION PLAN, HUDSON LOGISTICS CENTER" PREPARED BY HAYNER/SWANSON, INC., DATED 21 APRIL 2020.
 - PROPOSED DEVELOPMENT INFORMATION OBTAINED FROM A PROGRESS "CONCEPTUAL SITE PLAN" BY LANGAN TAKEN AUGUST 2020.
 - ELEVATIONS REFERENCE THE NGVD29 DATUM.
 - APPROXIMATE EXPLORATION LOCATIONS BY GZA GEOENVIRONMENTAL, INC. WERE OBTAINED FROM A REPORT TITLED "PRELIMINARY GEOTECHNICAL ENGINEERING STUDY" PREPARED BY GZA GEOENVIRONMENTAL, INC., DATED MAY 2006.
 - LANGAN TEST PITS WERE PERFORMED BY POLSTER INDUSTRIES BETWEEN 29 MAY AND 30 JUNE 2020, UNDER THE OBSERVATION OF A LANGAN FIELD ENGINEER.
 - LANGAN BORINGS WERE PERFORMED BY SOILTESTING, INC., SEABOARD DRILLING INC., AND ATLANTIC TESTING LABORATORIES BETWEEN 1 JUNE AND 2 JULY 2020, UNDER THE OBSERVATION OF A LANGAN FIELD ENGINEER. EXPLORATIONS ASSOCIATED WITH THE REMAINING TWO LOTS ARE SHOWN ON SEPARATE PLANS.
 - SEE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.
 - LIMITS OF FILL ARE BASED ON THE RESULTS FROM THE BORINGS. TEST PITS AND BORINGS DO NOT EXISTING INFRASTRUCTURE (BUILDINGS, ROADWAYS, UTILITIES, ECT.).

- ### ADDITIONAL NOTES
- INFORMATION PROVIDED HERE IS INFERRED BASED ON THE AVAILABLE BORINGS AND TEST PITS AND IS PROVIDED FOR INFORMATION/DISCUSSION PURPOSES ONLY.
 - CONTRACTOR IS RESPONSIBLE TO DETERMINE/CONFIRM ESTIMATED QUANTITIES AND DEPTHS BASED ON THE AVAILABLE BORING/TEST PIT LOGS, THEIR OWN EXPLORATION WORK, AND THEIR OWN MEANS/METHODS.

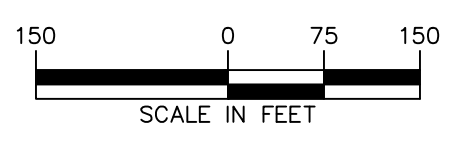


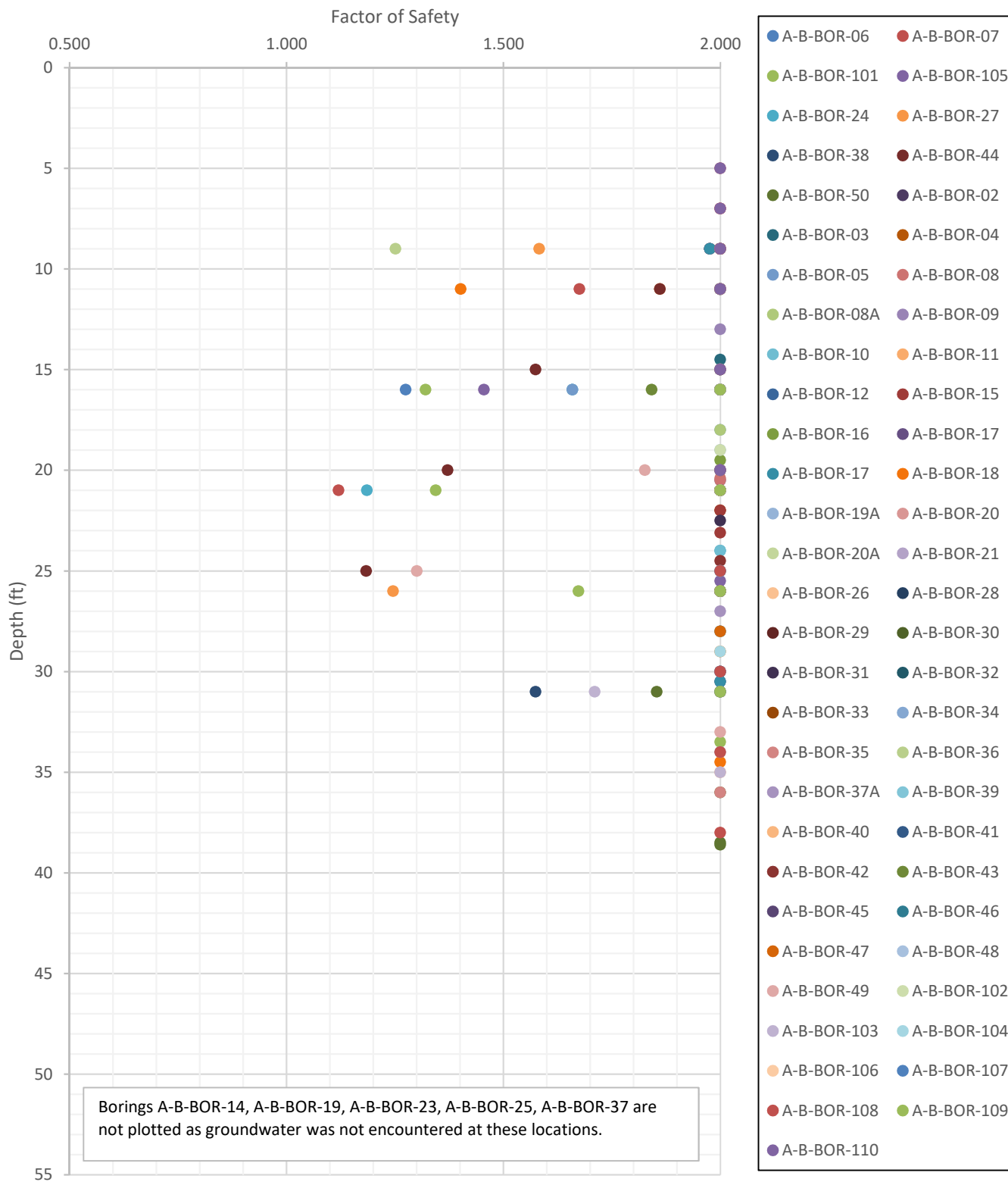
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 LANGAN MA, INC.
 888 Boylston Street, Suite 510
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Project
HUDSON LOGISTICS CENTER
 HUDSON
 HILLSBOROUGH NEW HAMPSHIRE

EXPLORATION LOCATION PLAN

| | |
|--------------|--------------|
| Project No. | Figure |
| 151010101 | 5 |
| Date | |
| 10 JULY 2020 | |
| Drawn By | |
| TDS | |
| Checked By | |
| LC | Sheet 1 of 1 |





Project

HUDSON LOGISTICS CENTER

HUDSON NEW HAMPSHIRE

Drawing Title

SOIL LIQUEFACTION EVALUATION

Building Area (Lot A)

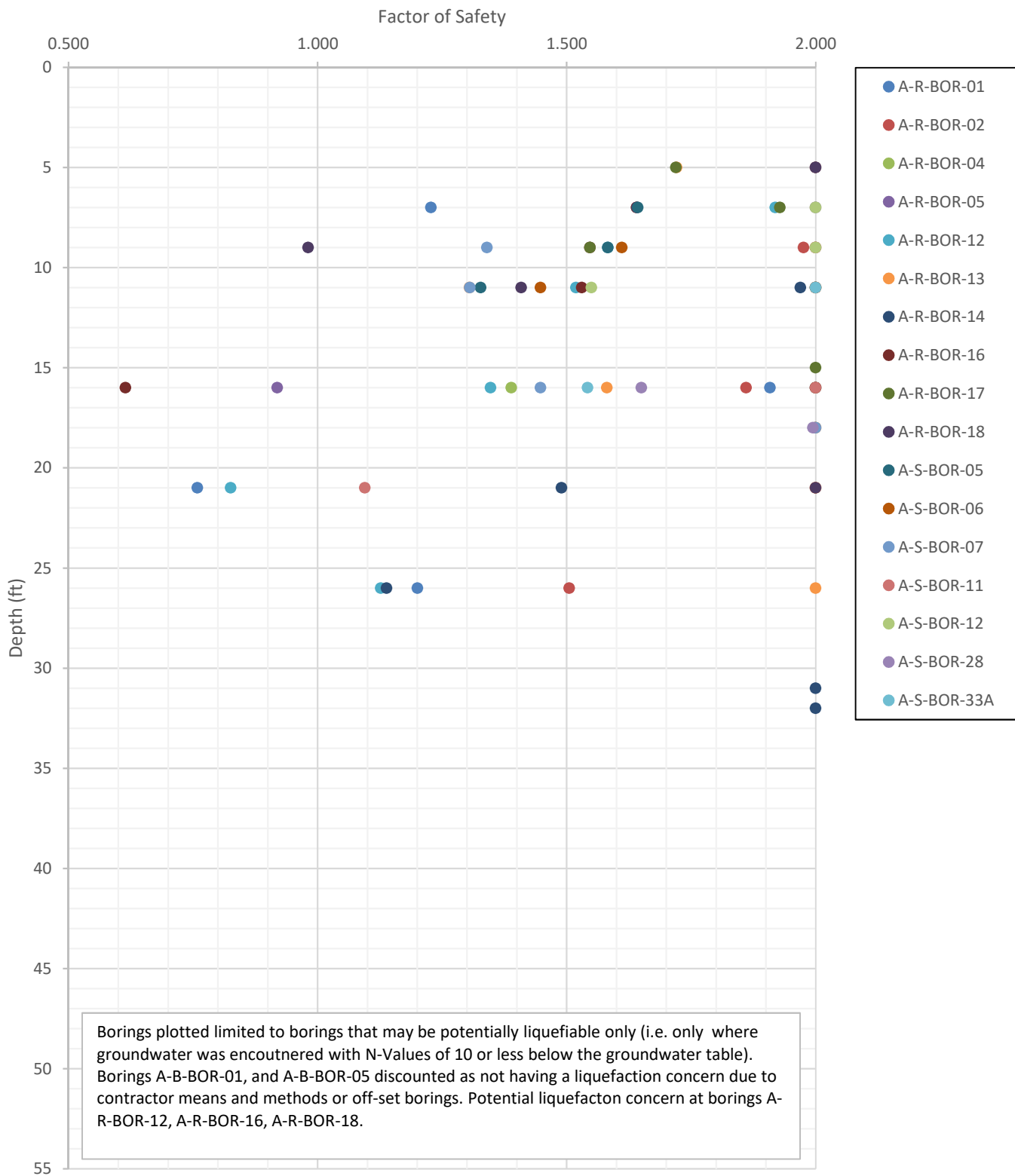
Project No.
151010101

Date
7/7/2020

Scale
N.T.S

Drawn By
LHC

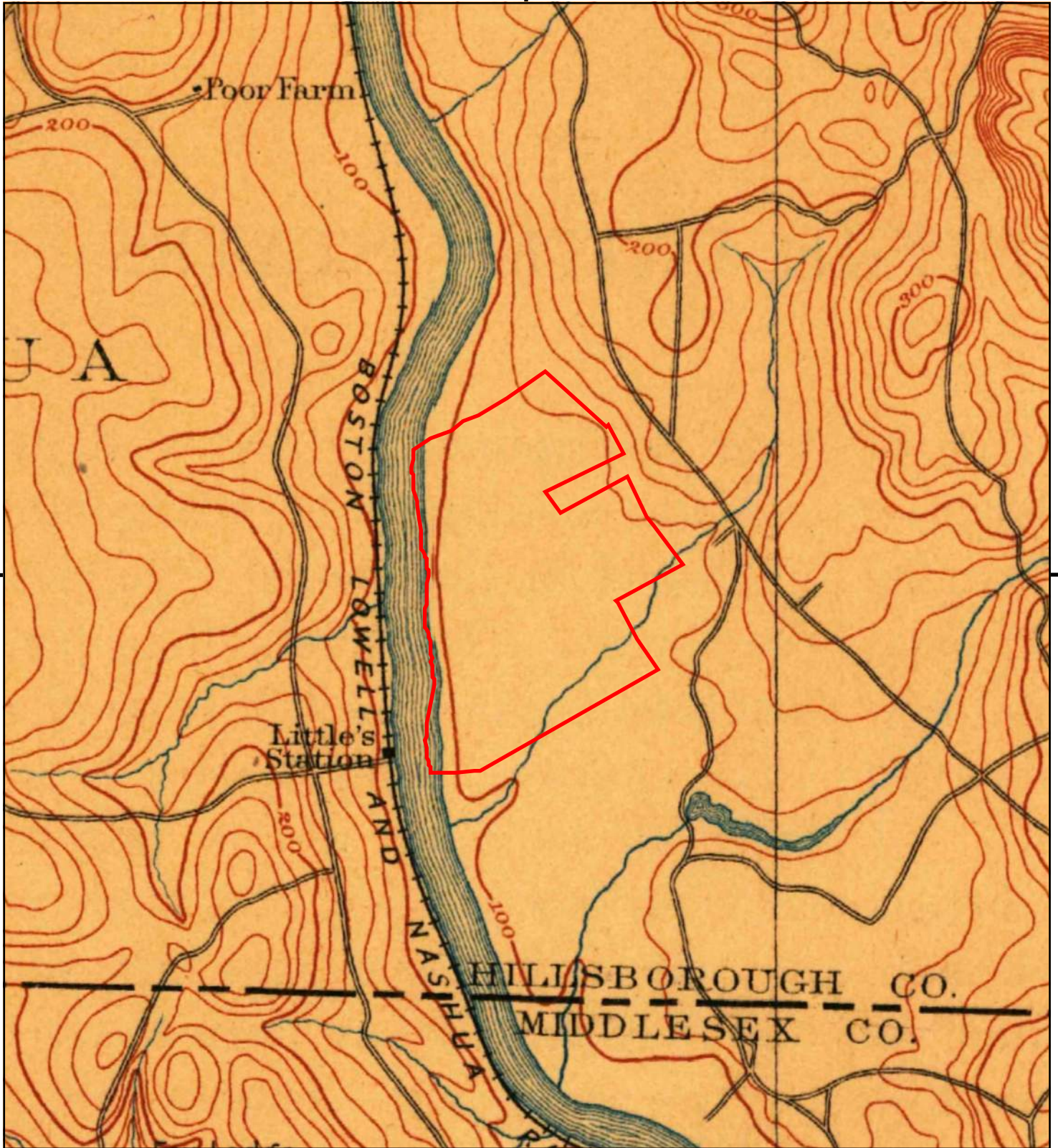
Drawing No.
6



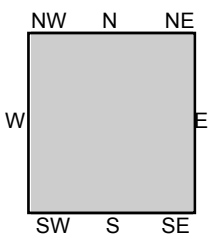
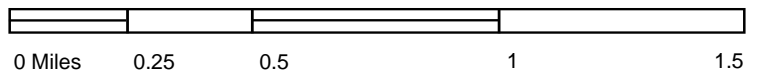
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|---|--|--|---|---|--|
| <p style="font-size: 8px; margin: 0;">555 Long Wharf Drive, New Haven, CT 06511 T: 203.562.5771 F: 203.789.6142 www.langan.com</p> <p style="font-size: 8px; margin: 0;">NEW JERSEY NEW YORK CONNECTICUT PENNSYLVANIA OHIO WASHINGTON, DC FLORIDA TEXAS NORTH DAKOTA CALIFORNIA ABU DHABI ATHENS DOHA DUBAI ISTANBUL PANAMA</p> <p style="font-size: 8px; margin: 0;">Langan Engineering, Environmental, Surveying and Landscape Architecture, L.P.C., S.A. Langan Engineering, Environmental, Surveying and Landscape Architecture, B.P.C. Langan Engineering and Environmental Services, Inc. Langan, C.T. P.C. Langan International LLC Collectively known as Langan</p> | <p>Project</p> <p style="text-align: center; font-weight: bold; font-size: 12px;">HUDSON LOGISTICS CENTER</p> <p>HUDSON NEW HAMPSHIRE</p> | <p>Drawing Title</p> <p style="text-align: center; font-weight: bold; font-size: 12px;">SOIL LIQUEFACTION EVALUATION</p> <p style="text-align: center; font-weight: bold; font-size: 12px;">SITE & ROADS (LOT A)</p> | <p>Project No.</p> <p style="text-align: center; font-weight: bold; font-size: 12px;">151010101</p> | <p>Drawing No.</p> <p style="text-align: center; font-weight: bold; font-size: 18px;">7</p> | |
| | | | | <p>Date</p> <p style="text-align: center; font-weight: bold; font-size: 12px;">7/7/2020</p> | |
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| | | | | <p>Drawn By</p> <p style="text-align: center; font-weight: bold; font-size: 12px;">LHC</p> | |

APPENDIX A

HISTORIC INFORMATION



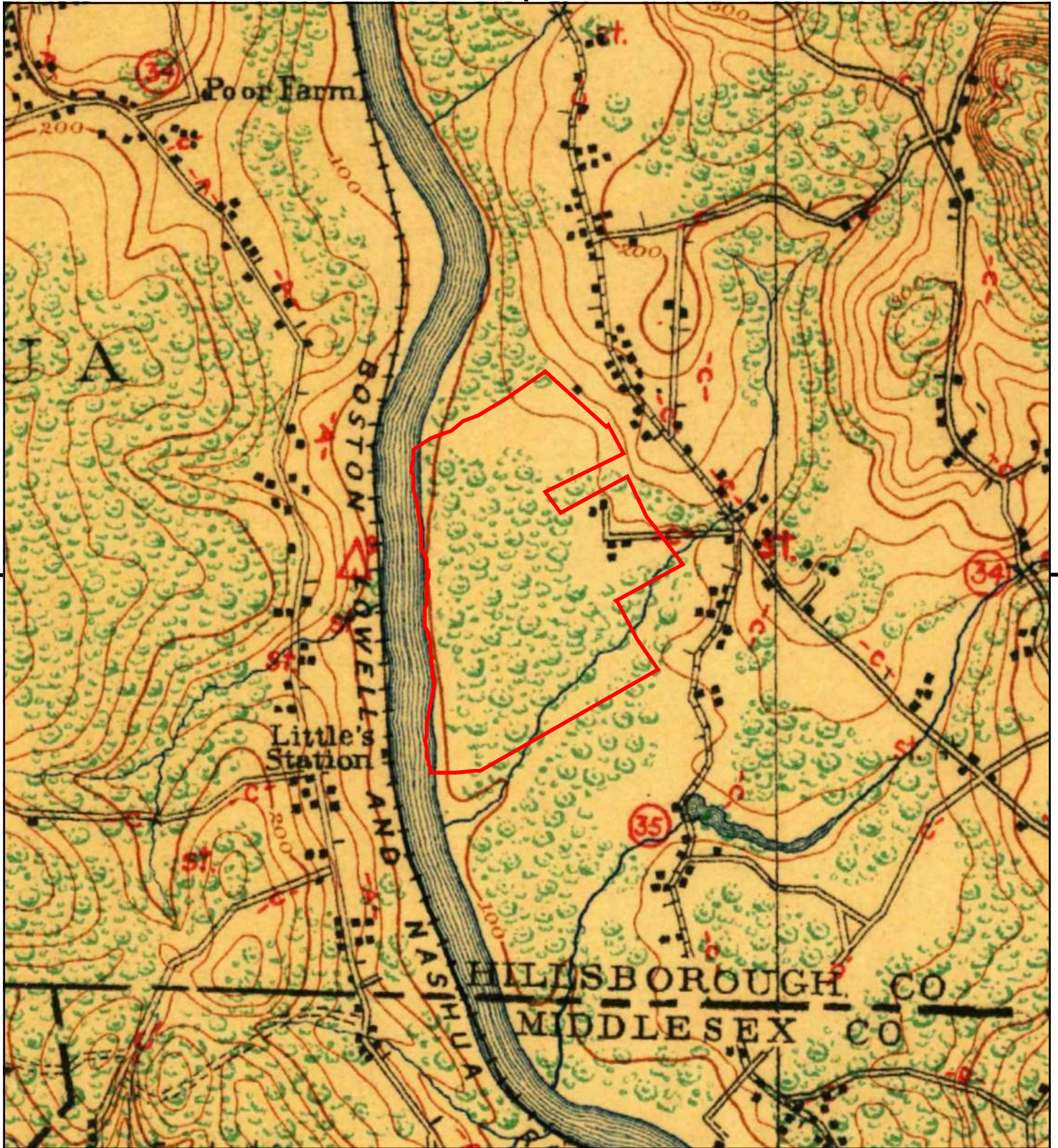
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SITE NAME: 59 Steele Road
 ADDRESS: 59 Steele Road
 Hudson, NH 03051
 CLIENT: Langan Environmental Services





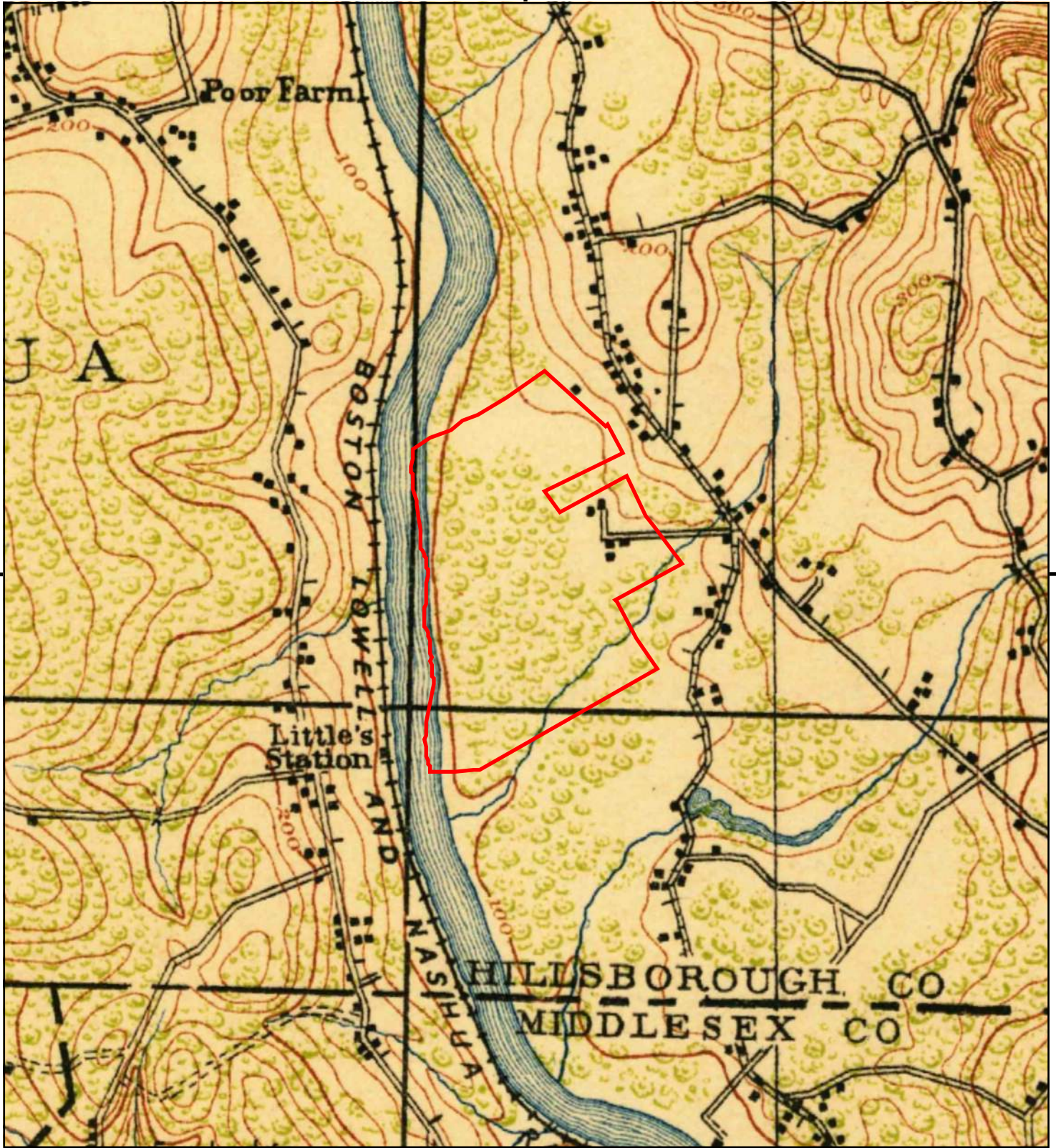
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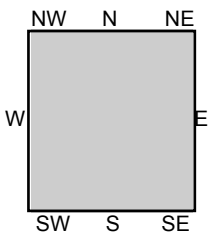
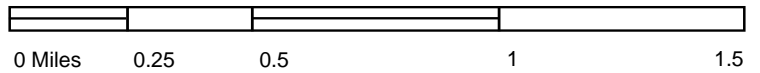
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 ADDRESS: 59 Steele Road
 Hudson, NH 03051
 CLIENT: Langan Environmental Services





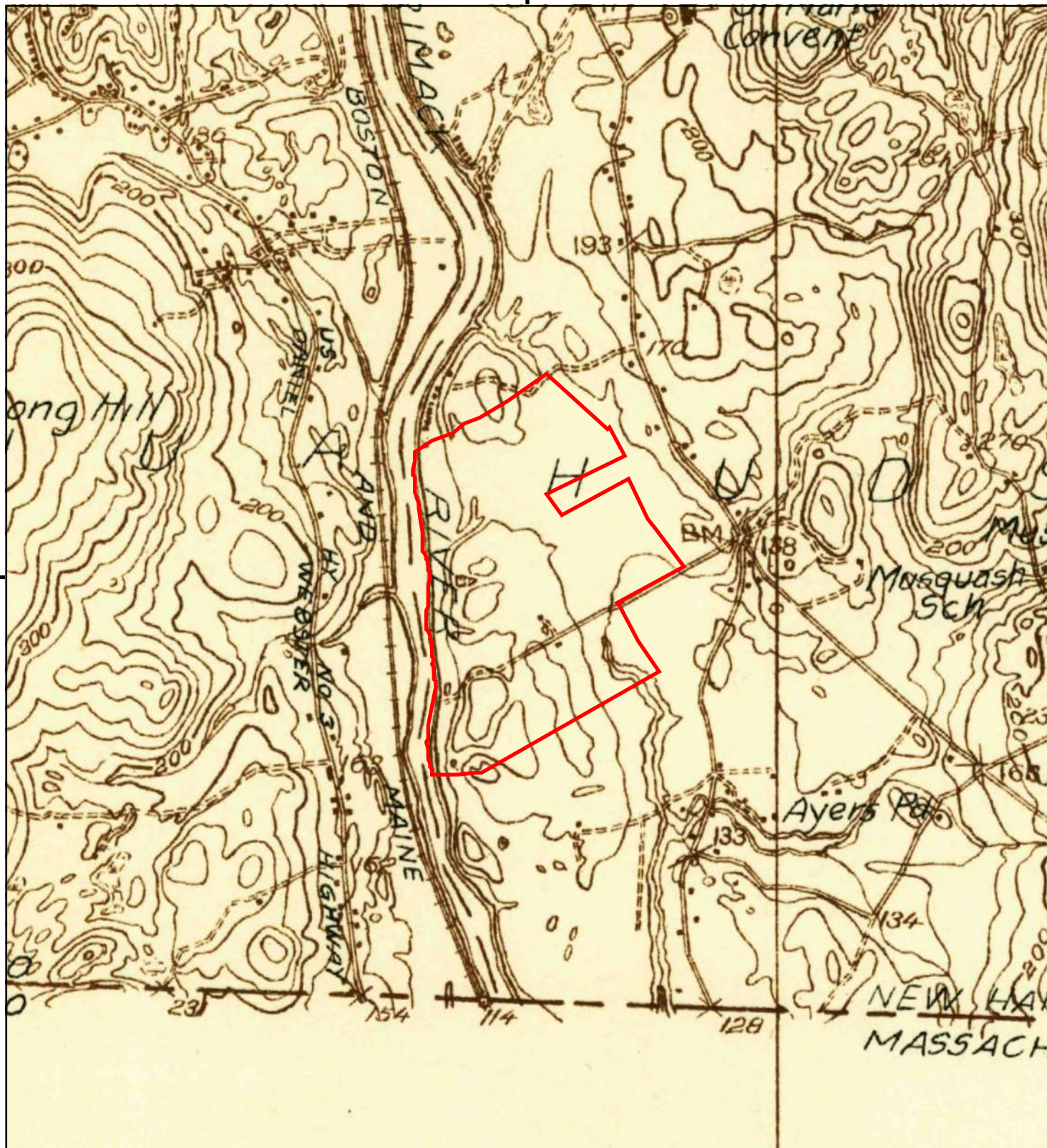
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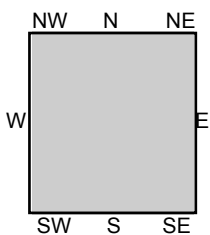
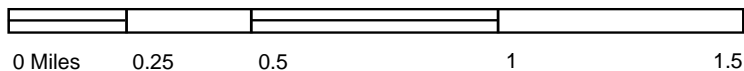
TP, Lowell, 1921, 15-minute

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 ADDRESS: 59 Steele Road
 Hudson, NH 03051
 CLIENT: Langan Environmental Services





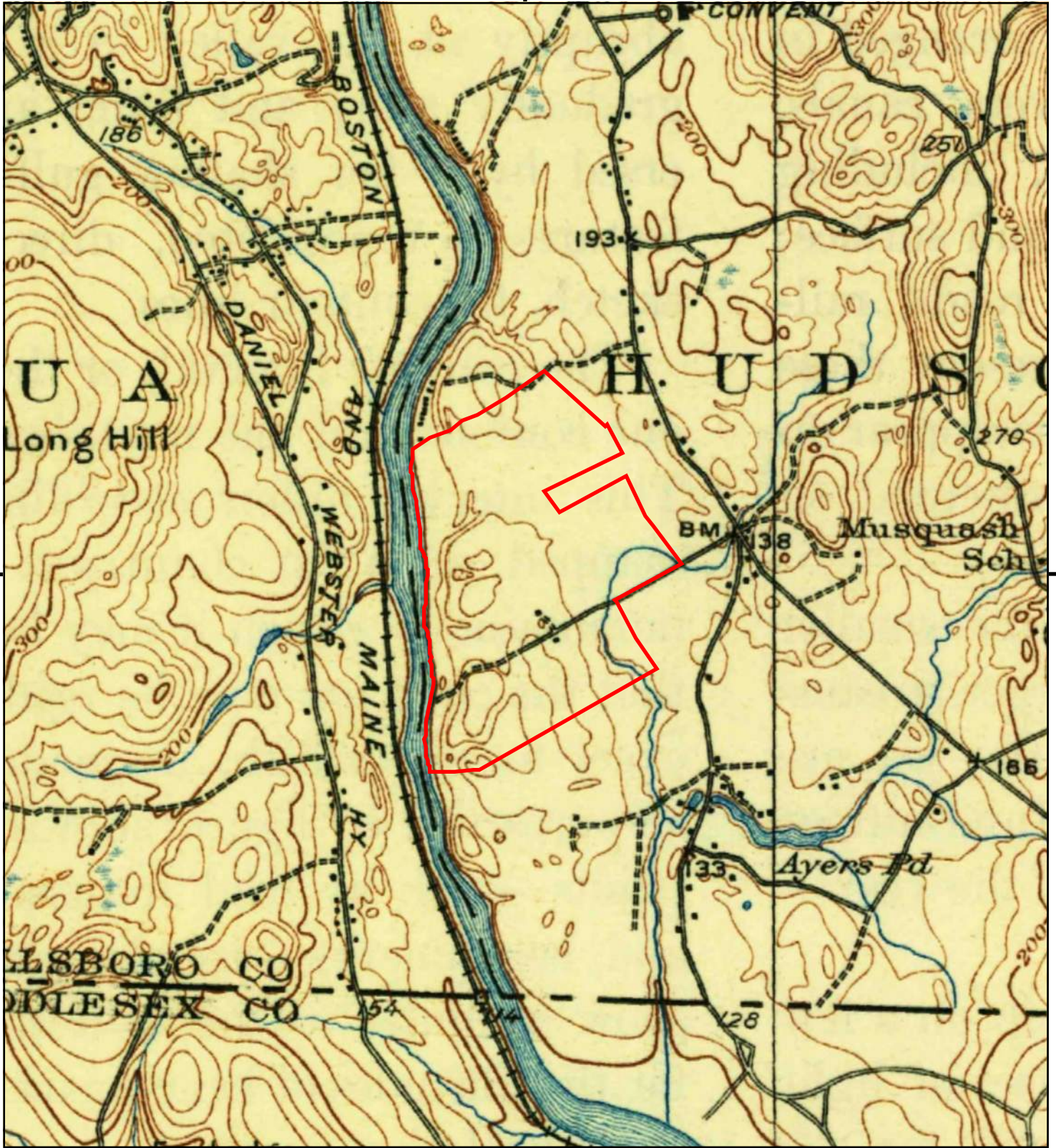
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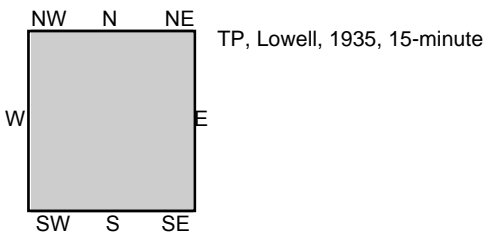
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 ADDRESS: 59 Steele Road
 Hudson, NH 03051
 CLIENT: Langan Environmental Services



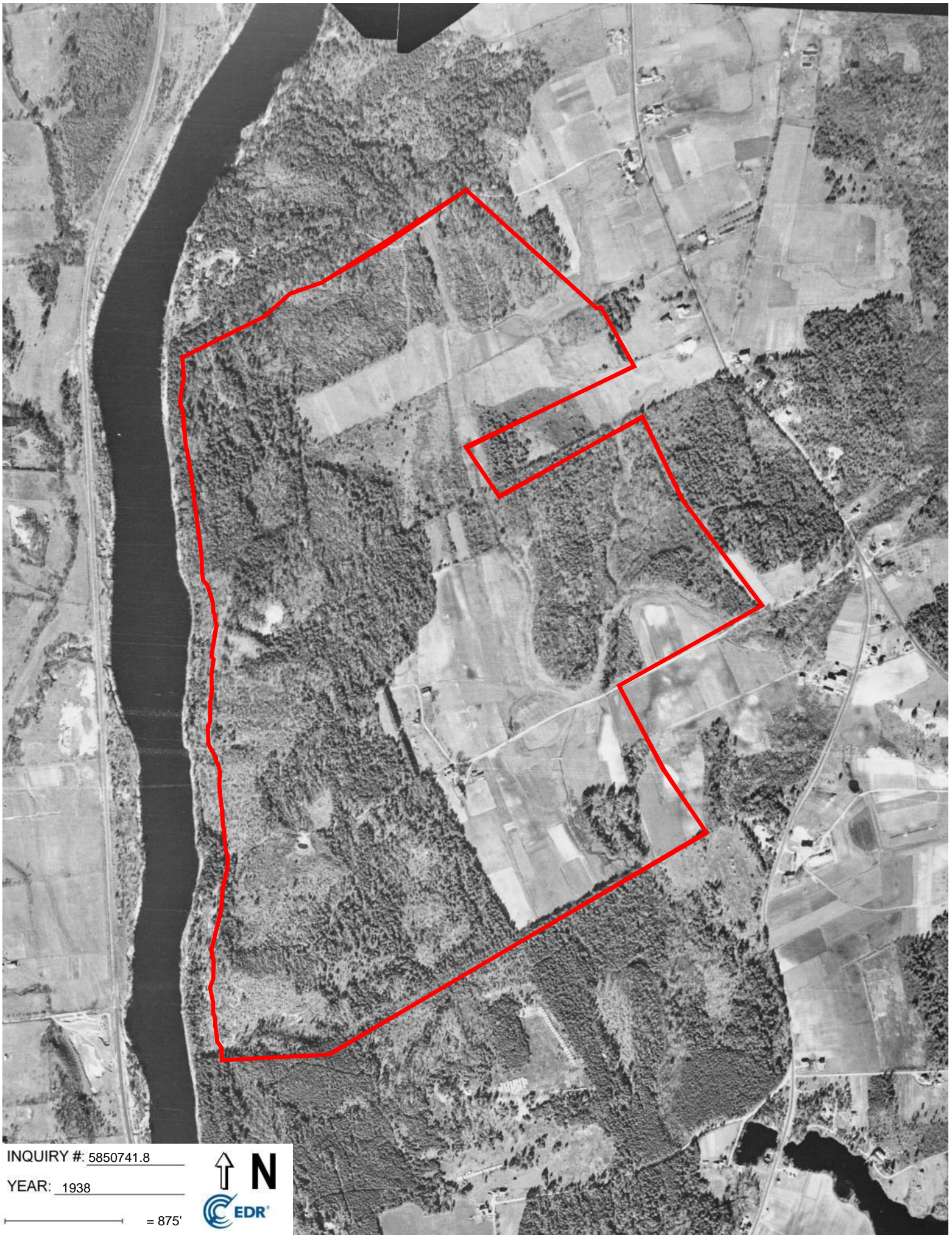


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 ADDRESS: 59 Steele Road
 Hudson, NH 03051
 CLIENT: Langan Environmental Services



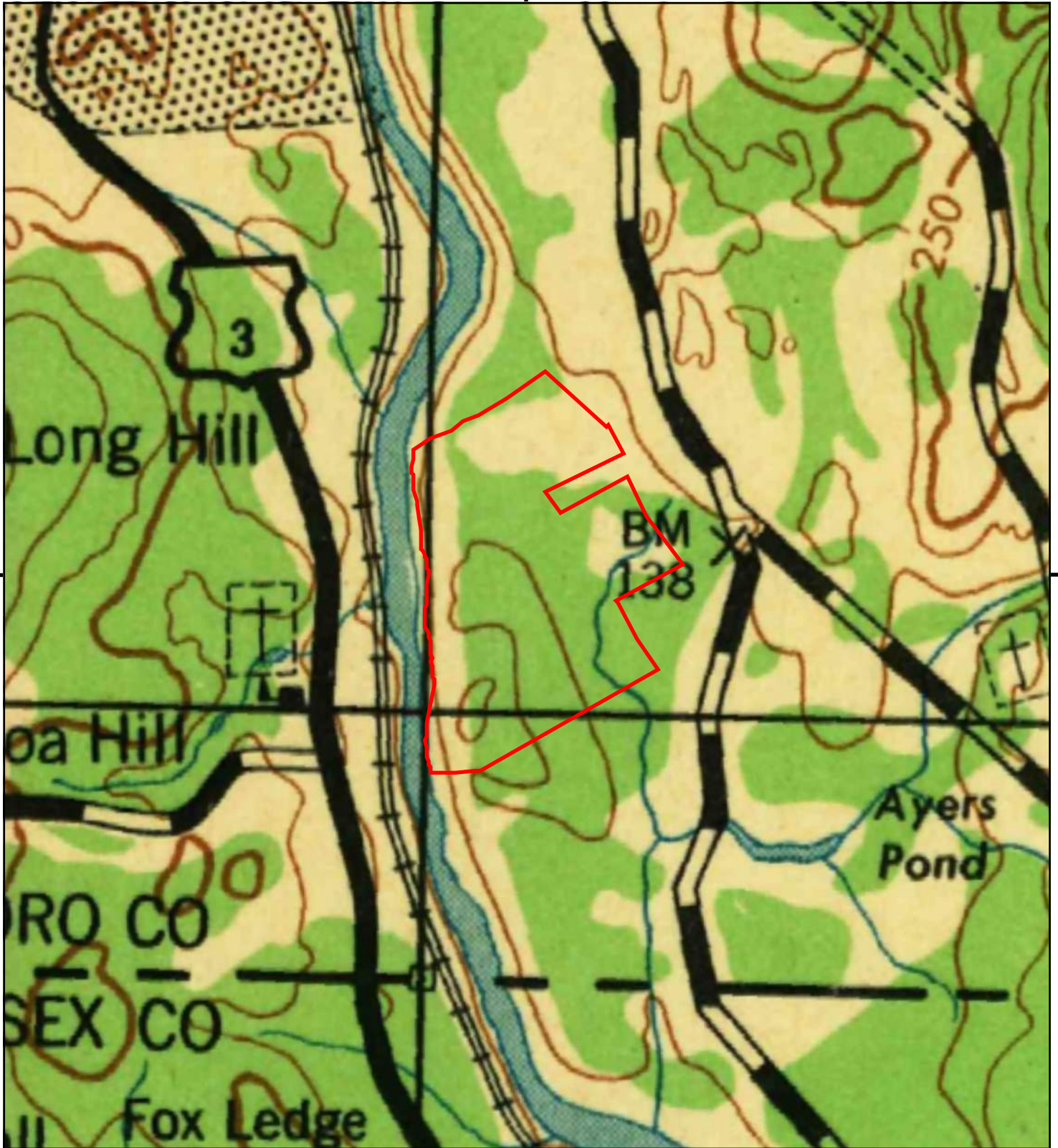


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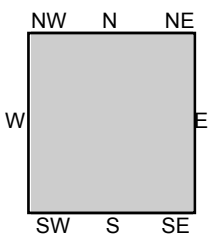
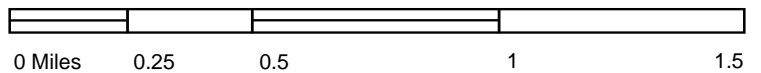
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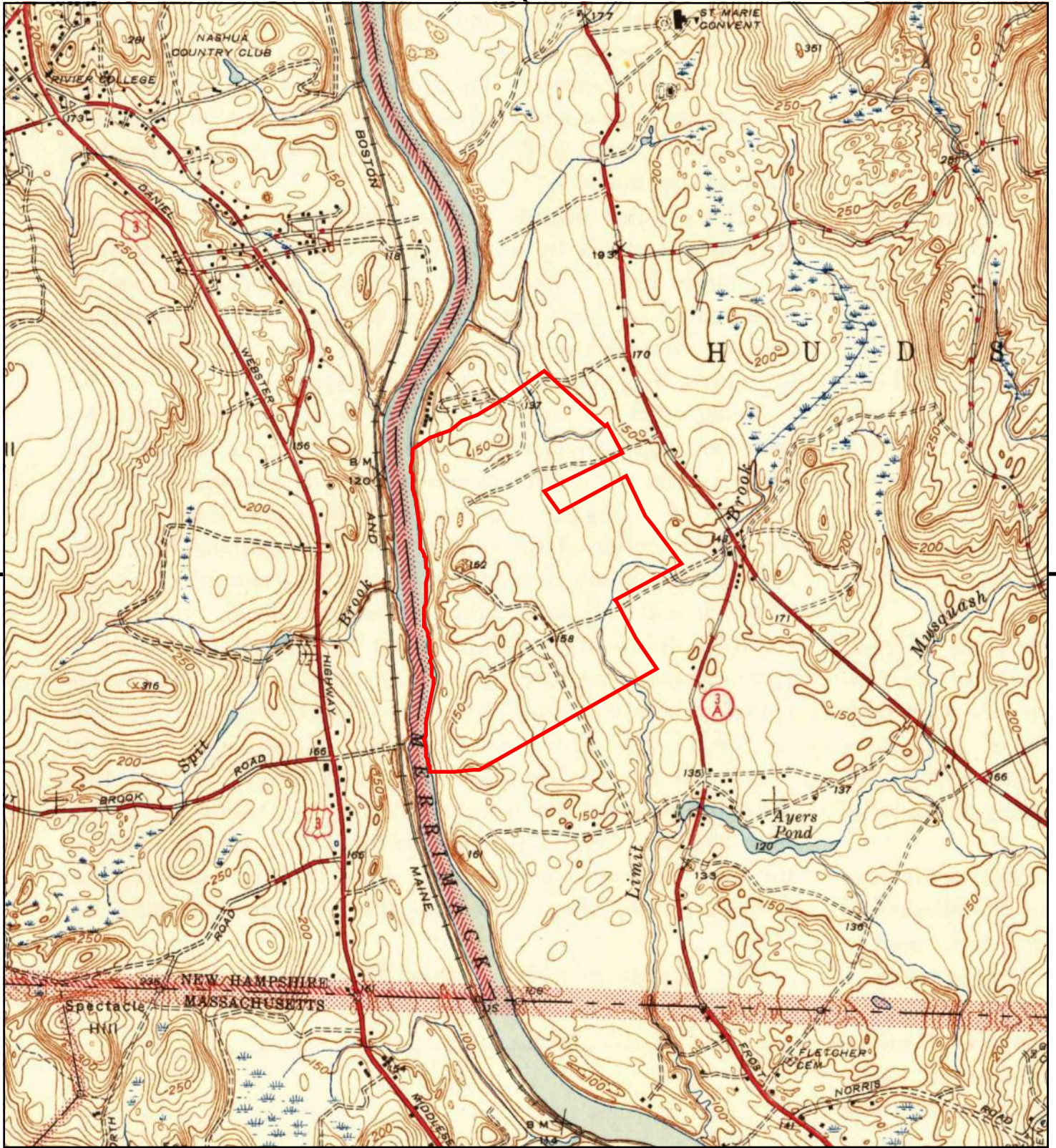
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 ADDRESS: 59 Steele Road
 Hudson, NH 03051
 CLIENT: Langan Environmental Services





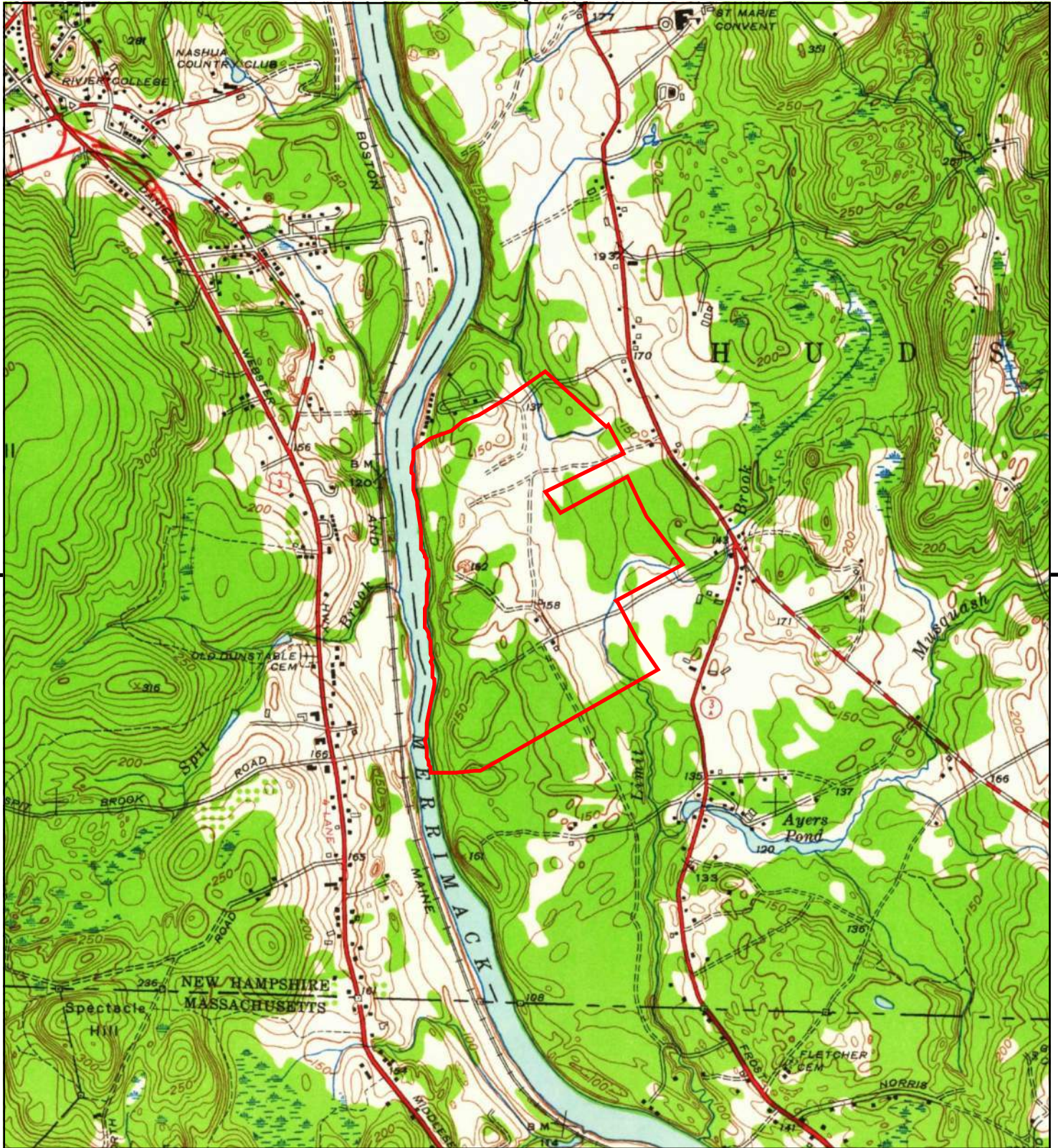
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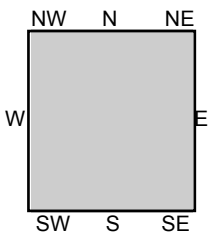
TP, Tyngsboro, 1946, 7.5-minute

SITE NAME: 59 Steele Road
 ADDRESS: 59 Steele Road
 Hudson, NH 03051
 CLIENT: Langan Environmental Services





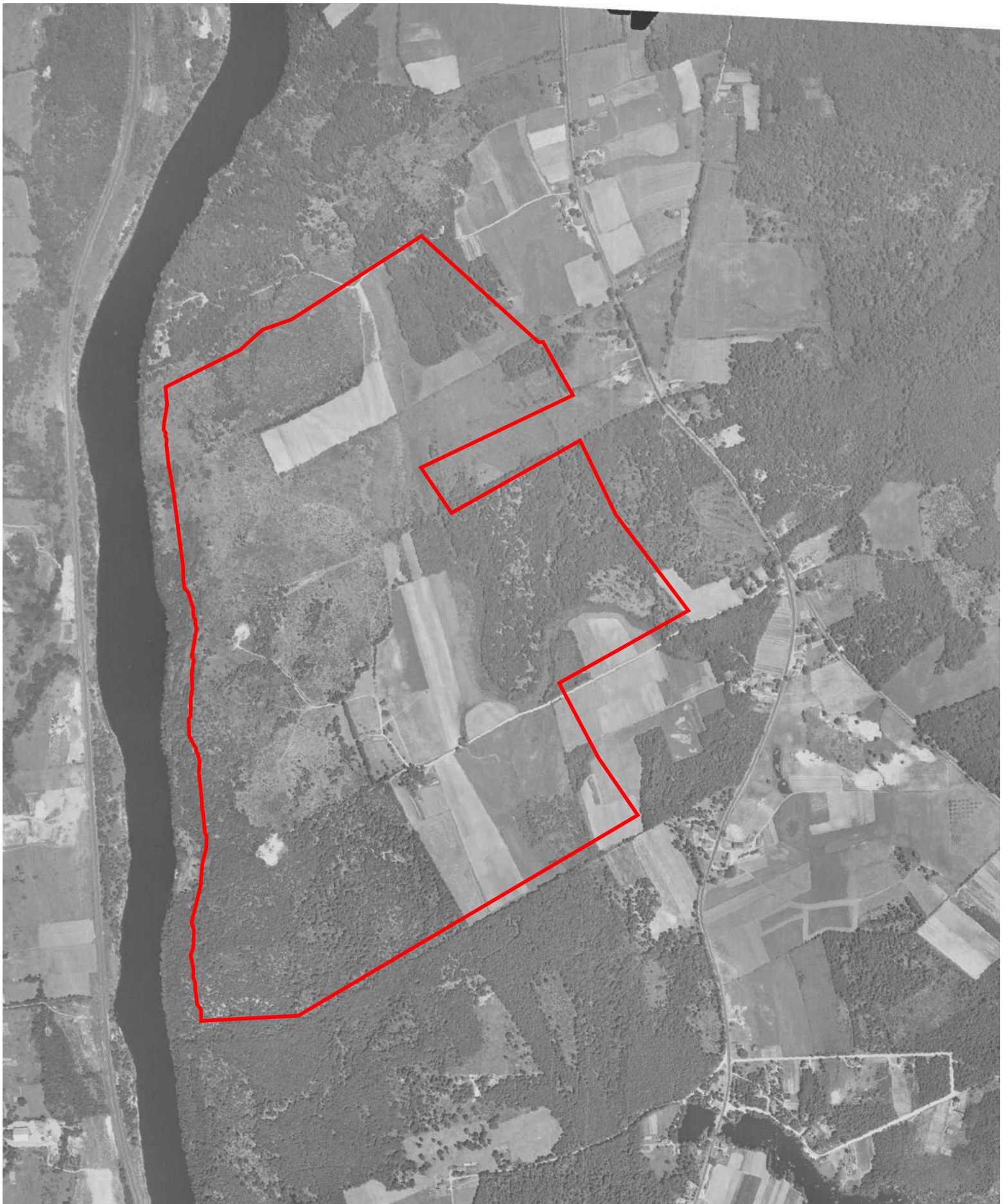
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TP, Tyngsboro, 1950, 7.5-minute
 TP, NASHUA SOUTH, 1950, 7.5-minute

SITE NAME: 59 Steele Road
ADDRESS: 59 Steele Road
 Hudson, NH 03051
CLIENT: Langan Environmental Services





INQUIRY #: 5850741.8

YEAR: 1952

— = 875'



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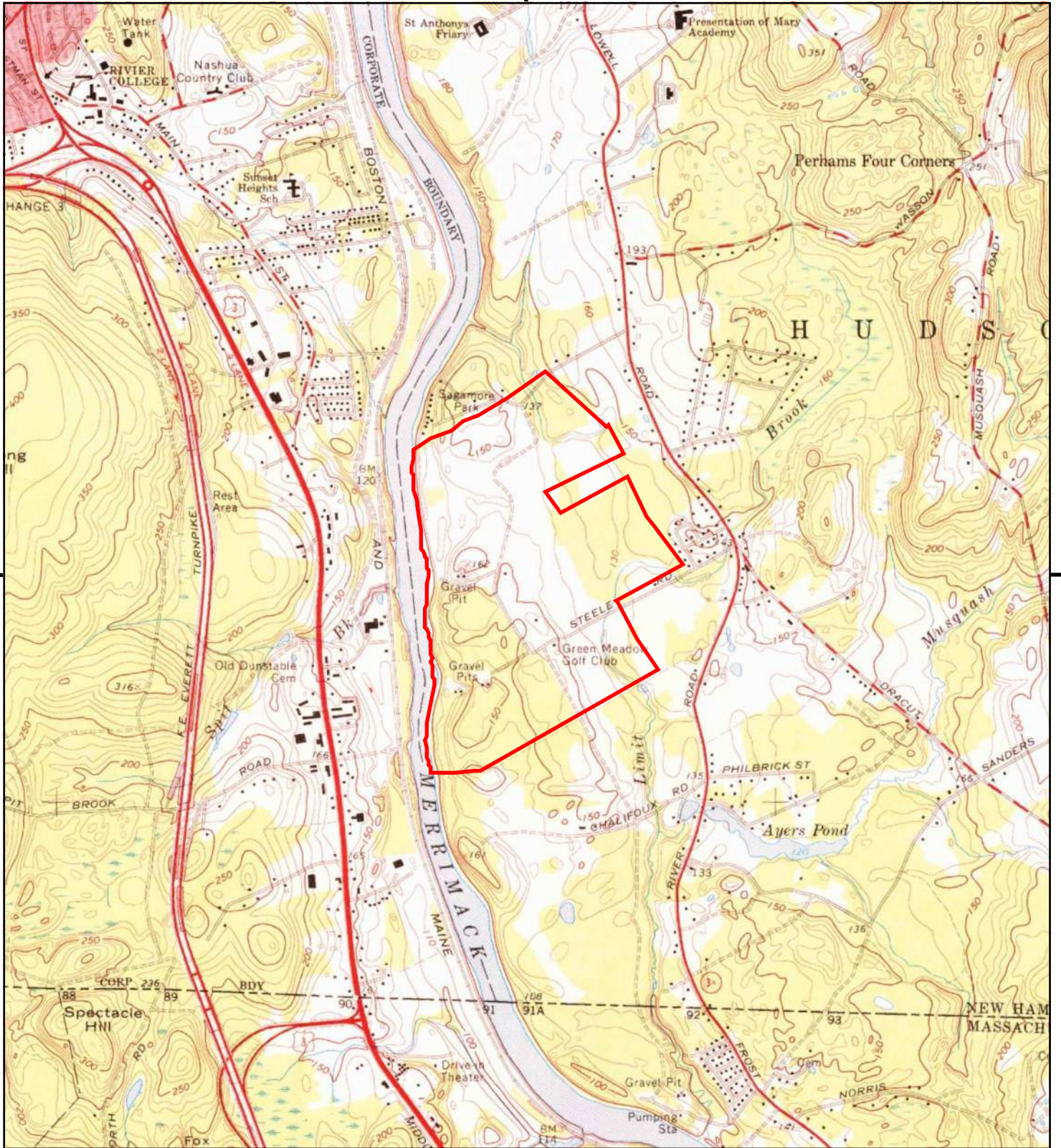


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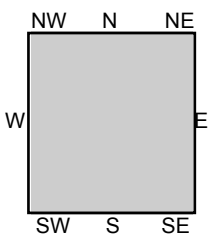
YEAR: 1963

— = 875'





This report includes information from the following map sheet(s).



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SITE NAME: 59 Steele Road
ADDRESS: 59 Steele Road
 Hudson, NH 03051
CLIENT: Langan Environmental Services





INQUIRY #: 5850741.8

YEAR: 1965

— = 875'



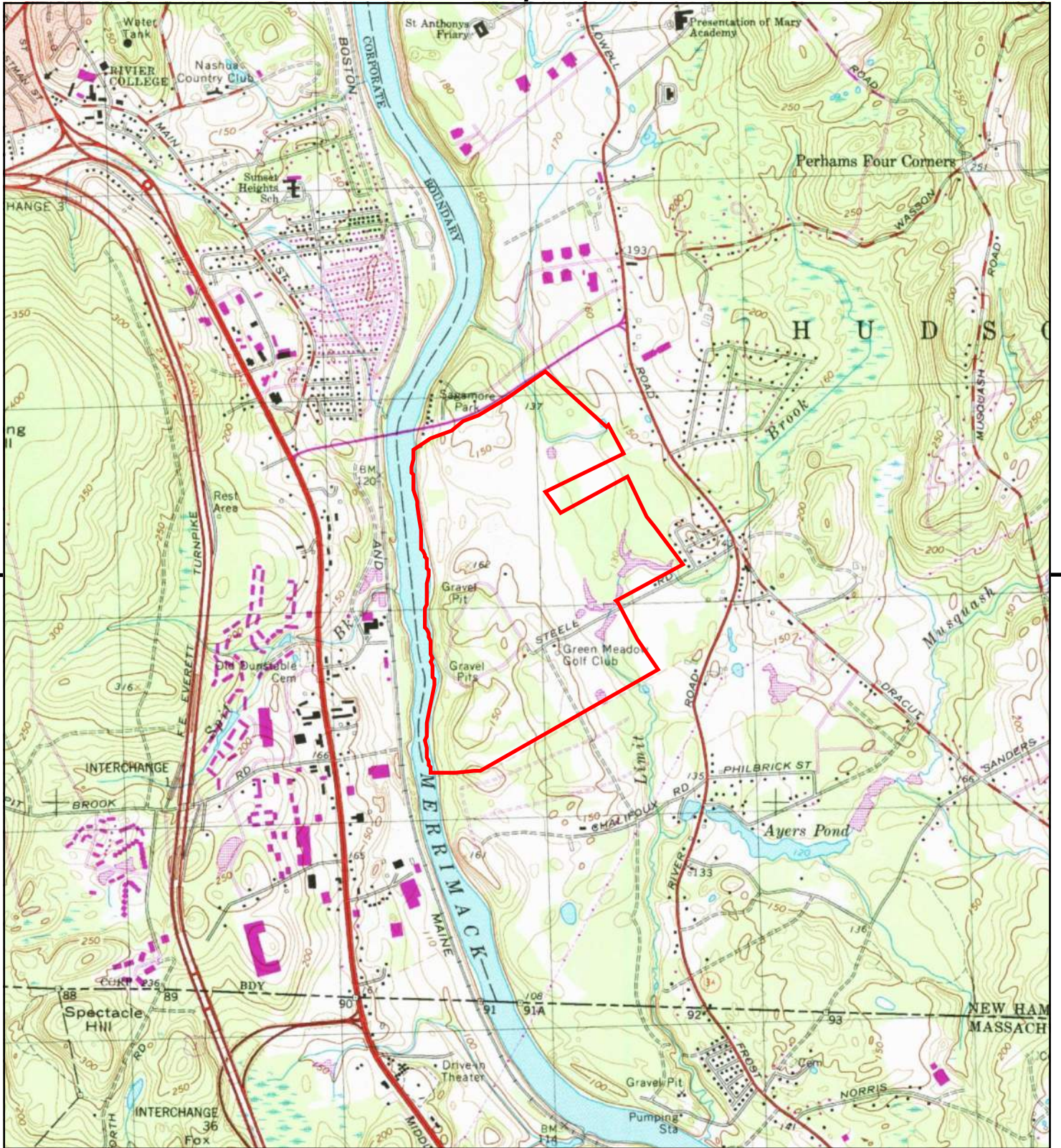


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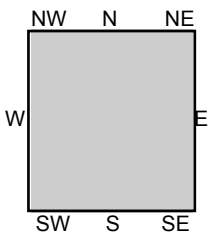
YEAR: 1977

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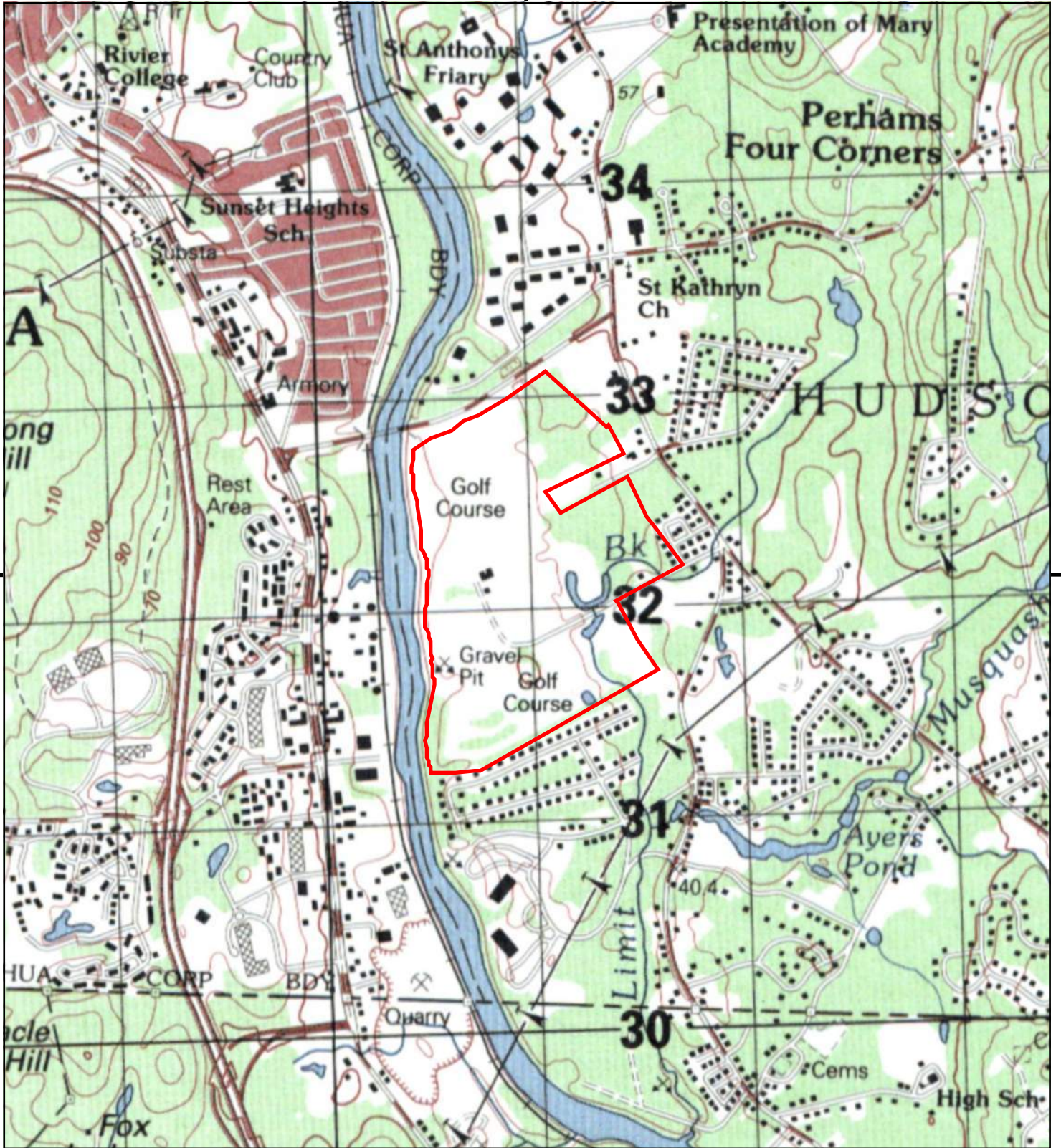
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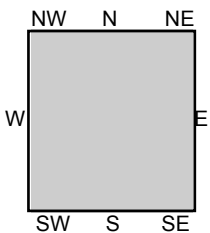
TP, Nashua South, 1979, 7.5-minute

SITE NAME: 59 Steele Road
 ADDRESS: 59 Steele Road
 Hudson, NH 03051
 CLIENT: Langan Environmental Services





This report includes information from the following map sheet(s).



TP, LOWELL, 1985, 15-minute

SITE NAME: 59 Steele Road
 ADDRESS: 59 Steele Road
 Hudson, NH 03051
 CLIENT: Langan Environmental Services



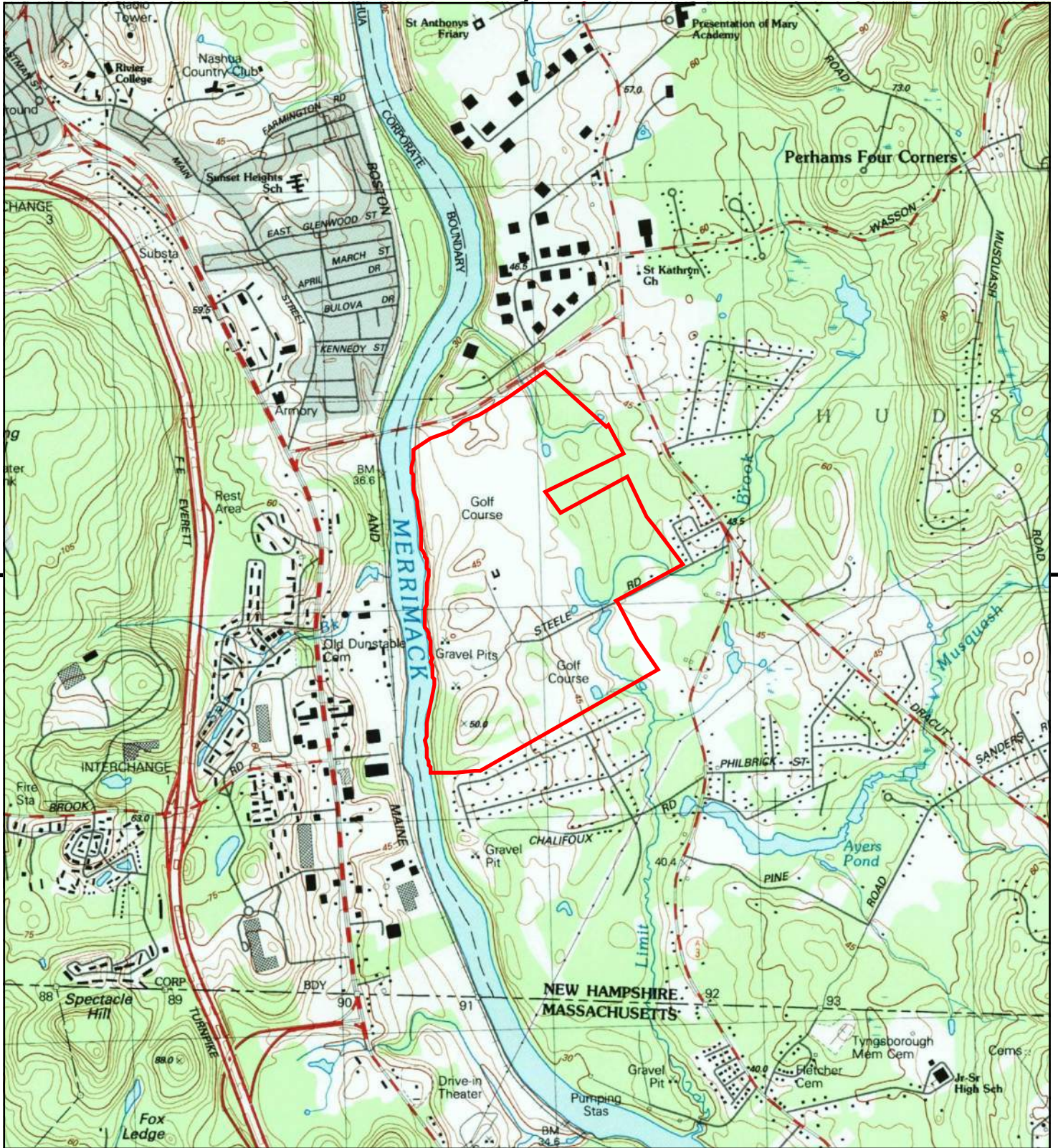


INQUIRY #: 5850741.8

YEAR: 1985

— = 875'





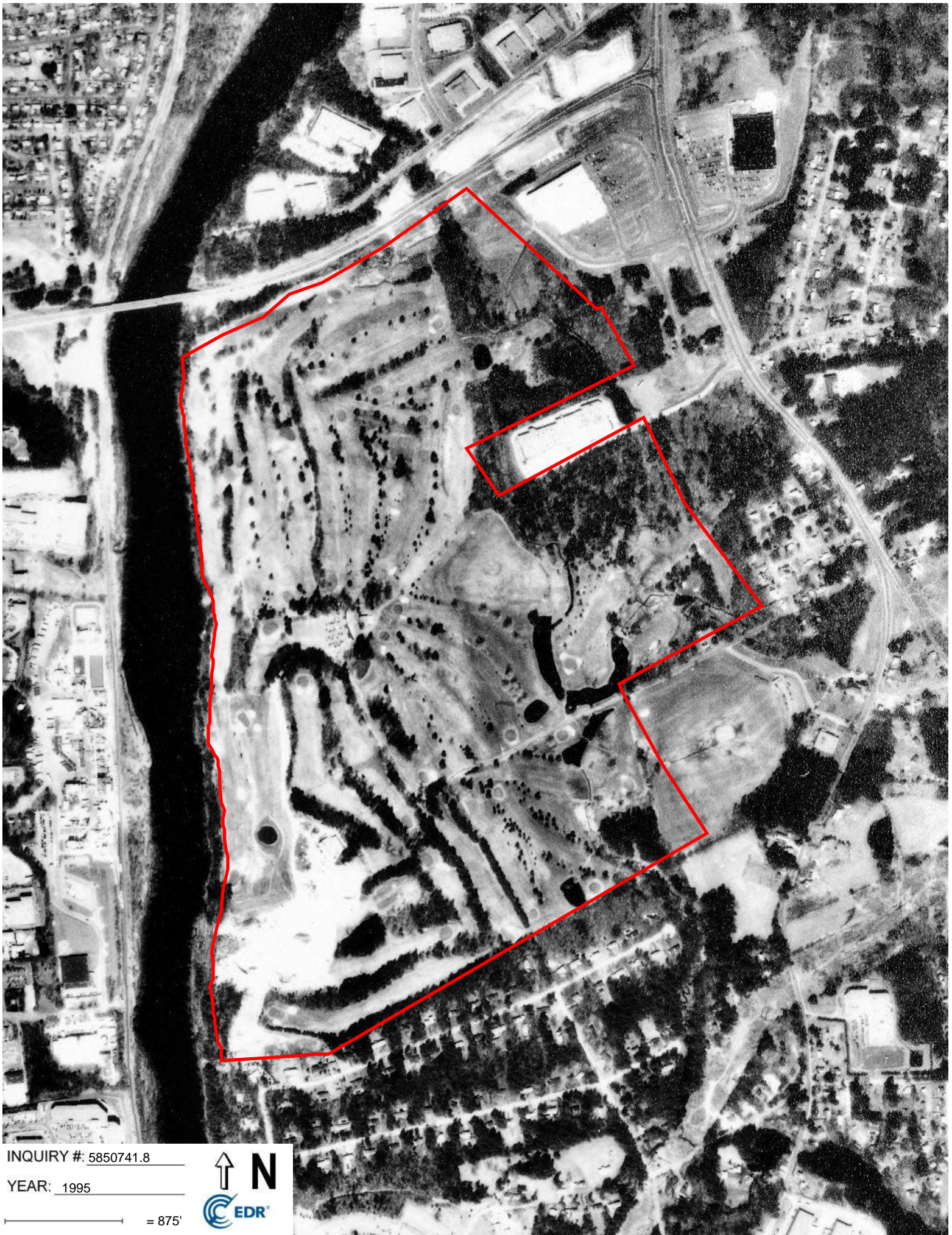
This report includes information from the following map sheet(s).



TP, Lowell, 1987, 7.5-minute

SITE NAME: 59 Steele Road
 ADDRESS: 59 Steele Road
 Hudson, NH 03051
 CLIENT: Langan Environmental Services



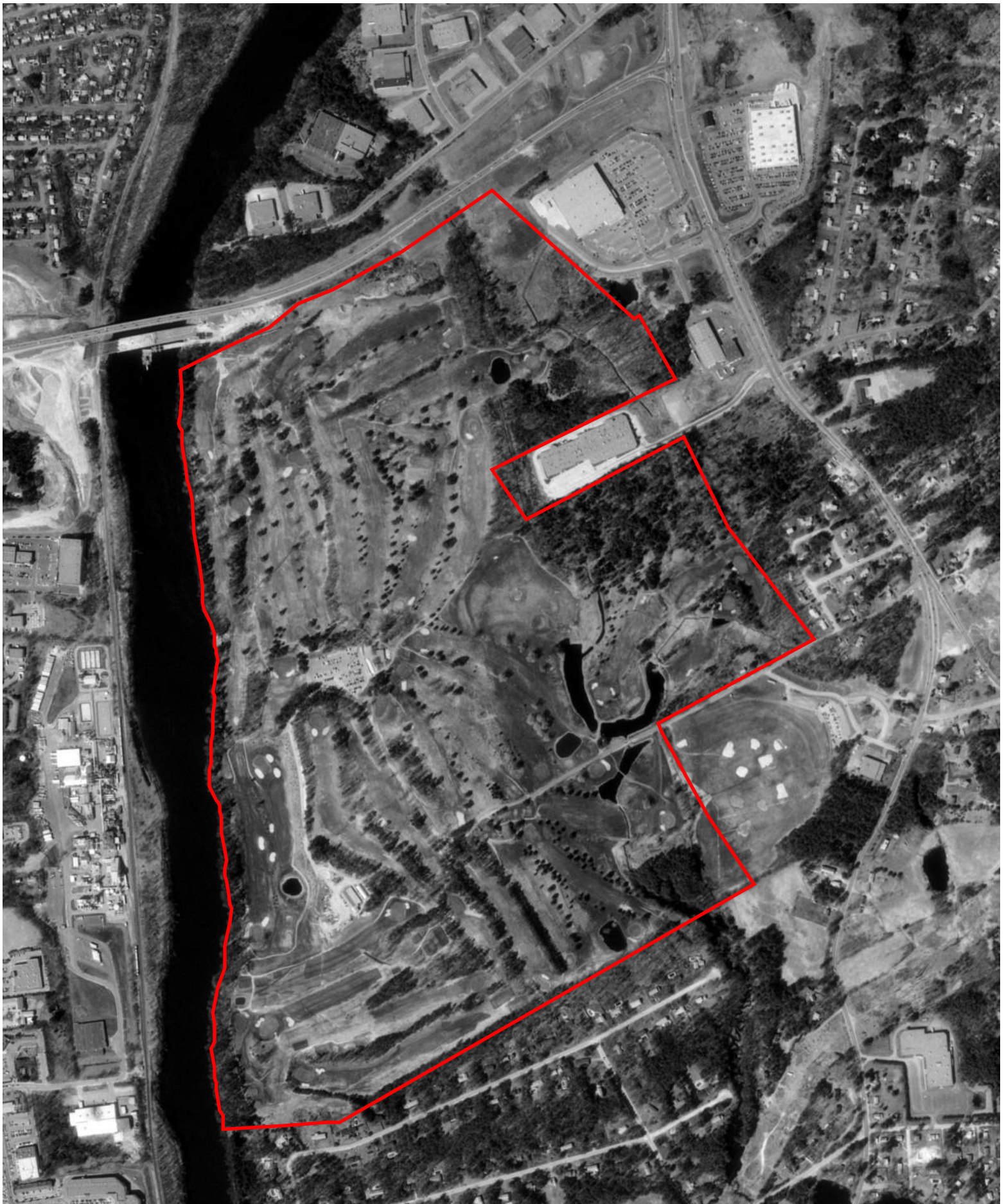


INQUIRY #: 5850741.8

YEAR: 1995

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YEAR: 1998

— = 875'





INQUIRY #: 5850741.8

YEAR: 2006

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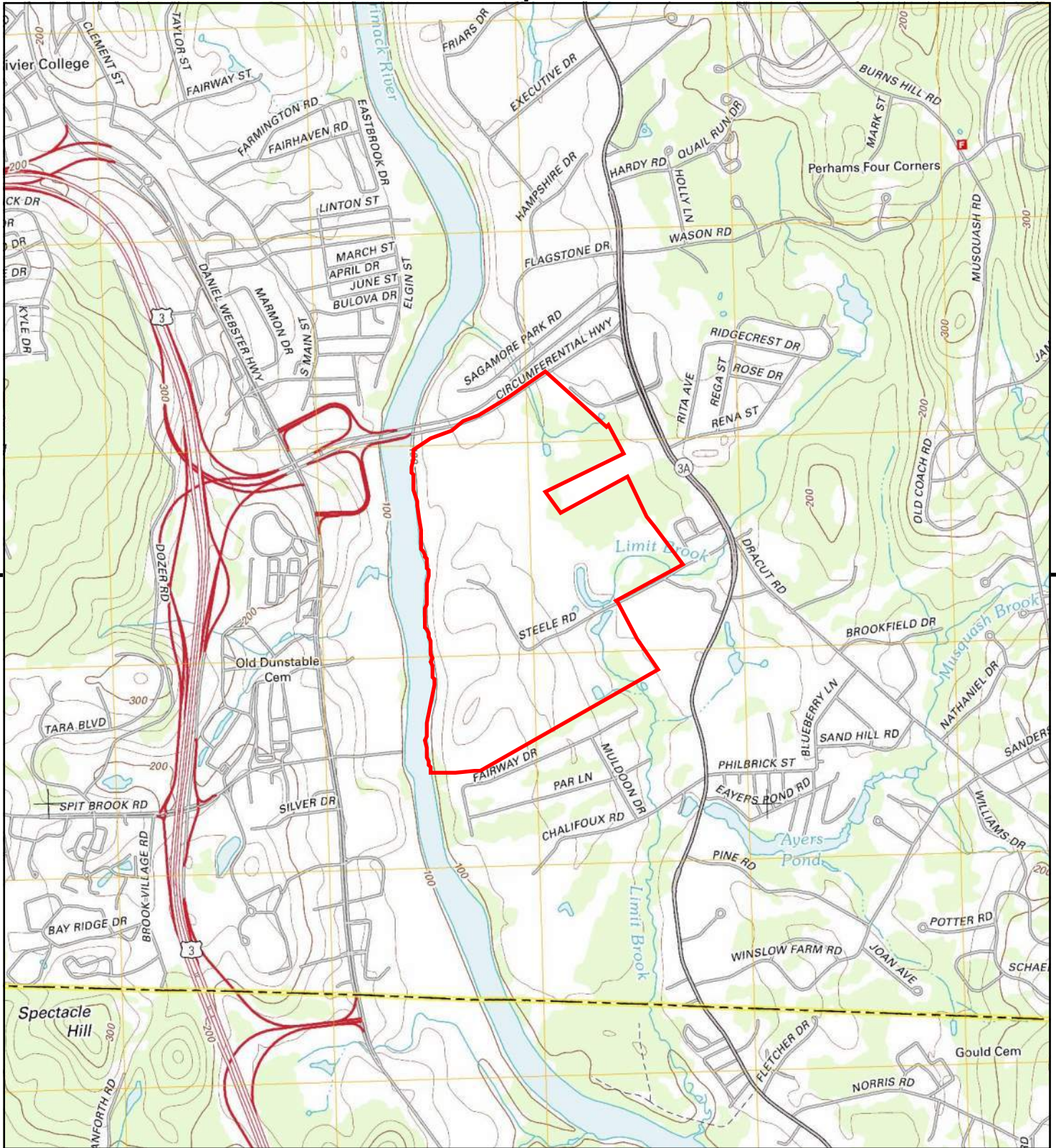


INQUIRY #: 5850741.8

YEAR: 2009

— = 875'





This report includes information from the following map sheet(s).



TP, Nashua South, 2012, 7.5-minute

SITE NAME: 59 Steele Road
ADDRESS: 59 Steele Road
 Hudson, NH 03051
CLIENT: Langan Environmental Services



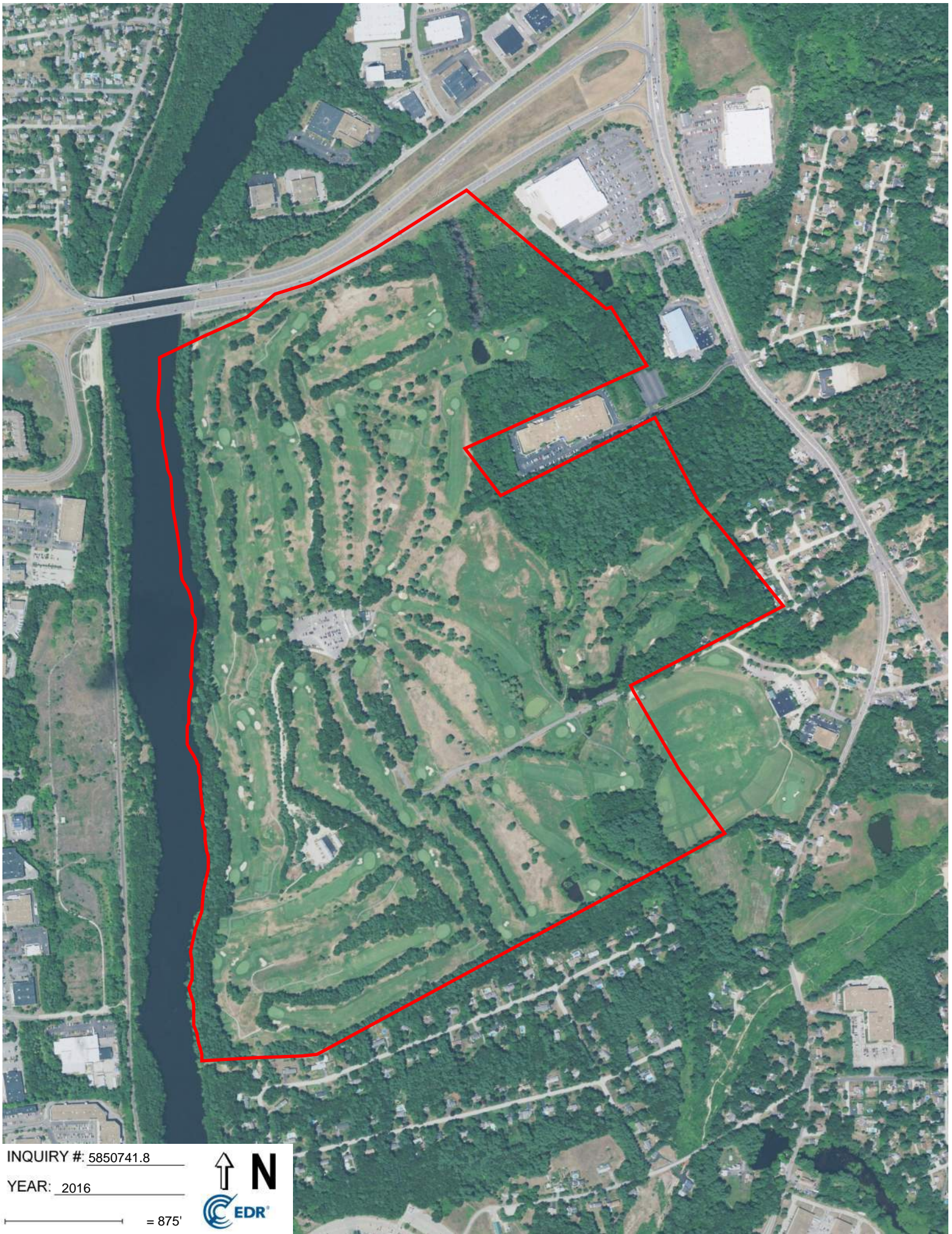


INQUIRY #: 5850741.8

YEAR: 2012

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INQUIRY #: 5850741.8

YEAR: 2016

— = 875'



**APPENDIX B
AVAILABLE GEOTECHNICAL
REPORT**

TABLE 1
SUMMARY OF TEST BORINGS AND TEST PITS
River Place
Hudson, New Hampshire

| Test Boring Designation ¹ | Notes | Ground Surface Elev. +/- (feet) ² | Exploration Depth (feet) | Groundwater ³ | | Thickness of Deposit (feet) | | | | | | Refusal | | |
|--------------------------------------|-------|--|--------------------------|--------------------------|-----------------|-----------------------------|---------|-------|-------|------------|---------------|---------|-----------------|-----------------|
| | | | | Depth to (feet) | Elev. of (feet) | Topsoil | Subsoil | Silt | Sand | Silty Sand | Gravelly Sand | Peat | Depth to (feet) | Elev. of (feet) |
| B-1 | 6 | 136.0 | 30.2 | NA | | | | | 29.7 | | | | 30.2 | 105.8 |
| B-2 | | 150.6 | 22.0 | NA | | 0.2 | | | >21.5 | | | | NE | |
| B-3 | | 138.7 | 22.0 | NA | | 1.0 | 1.0 | >13.5 | 6.5 | | | | NE | |
| B-4 | | 132.8 | 22.0 | NA | | 1.0 | 1.5 | 3.5 | >16 | | | | NE | |
| B-5 | 6 | 153.9 | 13.2 | NA | | 1.0 | | | 11.2 | | | | 13.2 | 140.7 |
| B-6 | | 119.8 | 22.0 | 15.0 | 104.8 | 0.5 | 1.5 | | | >20 | | | NE | |
| B-7 | | 111.2 | 22.0 | 6.0 | 105.2 | 0.5 | 2.0 | >13.5 | 6.5 | | | | NE | |
| B-8 | | 116.6 | 27.0 | 21.0 | 95.6 | 0.3 | 2.2 | | | >24.5 | | | NE | |
| B-9 | | 147.5 | 37.0 | 25.0 | 122.5 | | | | 8.5 | >28.5 | | | NE | |
| B-10 (OW) | 4 | 112.9 | 25.0 | 19.6 | 93.3 | 2.0 | | | >23 | | | | NE | |
| B-11 | 6 | 169.6 | 10.5 | NA | | 1.0 | 1.0 | | | 8.0 | 0.5 | | 10.5 | 159.1 |
| B-12 | 6 | 132.1 | 20.8 | 3.0 | 129.1 | 2.0 | | | | 18.8 | | | 20.8 | 111.3 |
| B-13 | 6 | 127.8 | 15.1 | NA | | 0.5 | | | | 14.6 | | | 15.1 | 112.7 |
| B-13A | 6 | 128.1 | 19.1 | 5.6 | 122.5 | 0.5 | | | | 15.0 | 3.6 | | 19.1 | 109.0 |
| B-14 | | 133.3 | 11.0 | 3.6 | 129.7 | 1.2 | 1.3 | | >8.5 | | | | NE | |
| B-15 | | 133.7 | 12.0 | 3.7 | 130.0 | 0.5 | | | >11.5 | | | | NE | |
| B-16 | 5 | 129.7 | 12.0 | 6.0 | 123.7 | 1.0 | 1.0 | | >6 | 4.0 | | | NE | |
| B-17 (OW) | 5 | 132.6 | 19.0 | 10.3 | 122.3 | 0.5 | | 7.0 | >11.5 | | | | NE | |
| B-18 | 5 | 132.4 | 12.0 | 5.5 | 126.9 | 1.0 | 1.0 | | >10 | | | | NE | |
| B-19 | 6 | 149.2 | 16.5 | 15.0 | 134.2 | 1.0 | 1.0 | | 9.9 | 2.1 | 2.5 | | 16.5 | 132.7 |
| B-20 (OW) | | 133.1 | 11.0 | 3.8 | 129.3 | 0.7 | 1.3 | | >3.5 | 5.5 | | | NE | |
| TP-1 | | 146.6 | 7.0 | NE | | 0.5 | | | 3.5 | | | | NE | |
| TP-2 | | 135.1 | 7.0 | NE | | 0.3 | | | | >6.7 | | | NE | |
| TP-3 | | 138.5 | 7.0 | NE | | 0.5 | | | | >6.5 | | | NE | |
| TP-4 | | 157.7 | 6.5 | NE | | 0.5 | | | | | >6 | | NE | |
| TP-5 | 6 | 136.7 | 2.5 | NE | | | | | | | >2.5 | | 2.5 | 134.2 |
| TP-5A | 6 | 136.7 | 2.5 | NE | | | | | 2.5 | | | | 2.5 | 134.2 |
| TP-6 | | 131.3 | 7.0 | 7.0 | 124.3 | 1.5 | | | | >5.5 | | | NE | |
| TP-7 | | 138.5 | 7.0 | NE | | 0.5 | | | | >6.5 | | | NE | |
| TP-8 | | 119.1 | 7.0 | NE | | 0.5 | 0.8 | | | >5.7 | | | NE | |
| TP-9 | | 137.2 | 7.0 | NE | | 0.7 | | | | >6.3 | | | NE | |
| TP-10 | | 119.0 | 7.0 | NE | | 0.5 | | | | >6.5 | | | NE | |
| TP-11 | | 109.6 | 7.0 | NE | | 1.5 | | >5.5 | | | | | NE | |
| TP-12 | | 134.1 | 7.0 | NE | | 0.5 | | 4.0 | >2.5 | | | | NE | |
| TP-13 | | 139.9 | 6.5 | NE | | 0.4 | | | >5 | 1.1 | | | NE | |
| TP-14 | | 138.1 | 6.0 | NE | | 0.3 | | | >4.5 | 1.2 | | | NE | |
| TP-15 | 7 | 150.0 | 6.5 | NE | | 0.5 | | | >2.2 | 3.8 | | | NE | |
| TP-16 | | 142.5 | 7.0 | NE | | 0.8 | | | >4.8 | 1.4 | | | NE | |
| TP-17 | | 135.8 | 7.0 | NE | | 0.5 | | | >5 | 1.5 | | | NE | |
| TP-18 | | 126.5 | 6.5 | 5.4 | 121.1 | 0.2 | | | | 4.0 | | >2.5 | NE | |
| TP-19 | | 127.7 | 7.0 | NE | | 0.8 | | | | >6.2 | | | NE | |
| TP-20 | | 133.2 | 7.0 | 4.8 | 128.4 | 0.7 | | | | >6.3 | | | NE | |
| TP-21 | | 127.7 | 6.8 | 6.7 | 121.0 | 0.5 | | | | >6.3 | | | NE | |
| TP-22 | | 146.3 | 7.0 | NE | | 0.4 | | >0.8 | 5.8 | | | | NE | |

Notes:

1. Refer to **Appendix B** for test boring logs and **Appendix C** for test pit logs.
2. Approximate ground surface elevation information was interpolated from survey information presented on a plan entitled "Boring/Test Pit/Observation Well Location Plan, 59 Steele Road, Hudson, New Hampshire," prepared by Hayner/Swanson, Inc. of Nashua, New Hampshire, dated April 2006.
3. Groundwater readings shown for test borings with observation wells installed were measured in groundwater observation wells on April 14, 2006. Italicized groundwater readings represent groundwater readings taken during drilling or test pit excavation and do not represent stabilized levels.
4. Cobble layer encountered from 15 to 15.5 feet below ground surface. Sand deposit thickness shown does not include cobble layer thickness.
5. Boring terminated due to running sands.
6. Refusal encountered due to boulders or bedrock.
7. Approximate ground surface elevation was interpolated from topography site plan provided by Hayner Swanson.

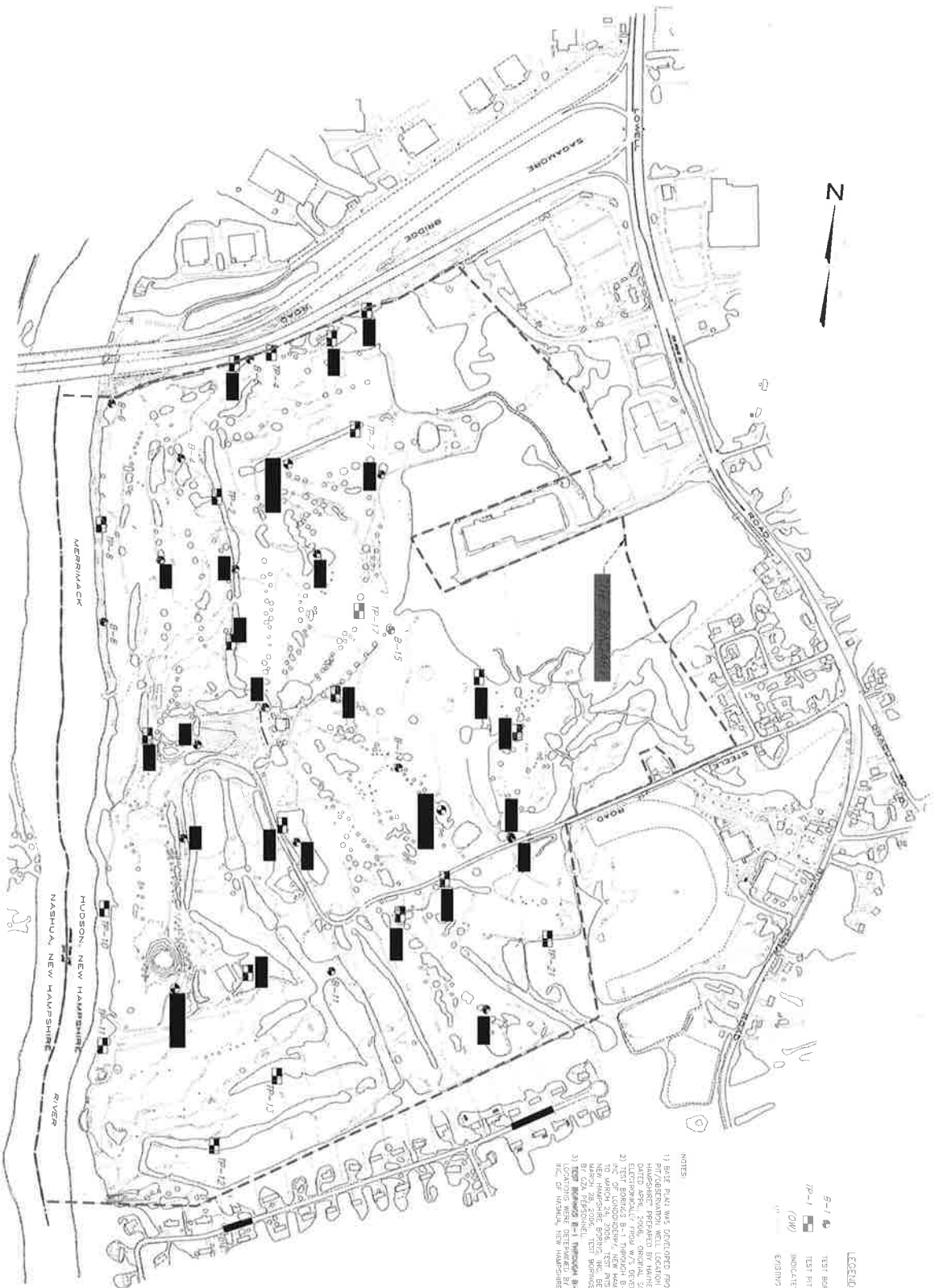
Abbreviations:
NA = Not Available
NE = Not Encountered
OW = Observation Well Installed

TABLE 2
SUMMARY OF LABORATORY TESTING
River Place
Hudson, New Hampshire

| Boring / Test Pit No. | Sample No. | Depth (feet) | Soil Description | Grain Size Distribution | | | Natural Water Content (%) |
|-----------------------|------------|--------------|--|-------------------------|------|------|---------------------------|
| | | | | Gravel | Sand | Silt | |
| B-1 | S-3 | 10-12 | Fine to coarse SAND, some Gravel, trace Silt | 21.0 | 73.7 | 5.3 | 4.4 |
| B-2 | S-2 | 5-7 | Medium to coarse SAND, little Gravel, trace Silt | 15.0 | 80.0 | 5.0 | 3.1 |
| B-3 | S-2 | 5-7 | Medium to coarse SAND and Gravel, trace Silt | 36.9 | 60.4 | 2.7 | 3.3 |
| B-4 | S-2A | 5-6.8 | SILT and fine Sand | 0.1 | 48.8 | 51.1 | 20.4 |
| B-5 | S-3 | 10-12 | Fine to medium SAND, some Gravel, little Silt | 33.9 | 46.3 | 19.8 | 5.0 |
| B-8 | S-2 | 5-7 | Fine to medium SAND, some Silt | 0.0 | 73.4 | 26.6 | 7.5 |
| B-9 | S-2 | 5-7 | Fine to medium SAND, trace Silt | 0.2 | 95.9 | 3.9 | 5.8 |
| B-11 | S-2 | 4-6 | Fine to medium SAND, some Silt | 0.1 | 79.4 | 20.5 | 7.0 |
| B-15 | S-2 | 5-7 | Fine to coarse SAND, little Silt, trace Gravel | 7.5 | 75.9 | 16.6 | 24.3 |
| B-16 | S-1B | 0-2 | SILT, trace fine Sand | 0.0 | 4.8 | 95.2 | 33.7 |
| B-17(OW) | S-2 | 4-6 | SILT, some fine Sand | 0.2 | 30.0 | 69.8 | 25.4 |
| B-18 | S-3 | 10-12 | Fine to medium SAND, trace Silt | 0.0 | 93.2 | 6.8 | 26.4 |
| TP-1 | S-3 | 3.5 | Medium to coarse SAND, little Gravel, trace Silt | 10.8 | 85.6 | 3.6 | 4.0 |
| TP-2 | S-2 | 1.5 | SILT and fine Sand | 0.0 | 44.1 | 55.9 | 13.3 |
| TP-4 | S-1 | 2 | GRAVEL and medium to coarse Sand, trace Silt | 51.3 | 44.0 | 4.7 | 4.4 |
| TP-5A | S-1 | 1 | Fine to coarse SAND, some Silt, little Gravel | 19.6 | 55.5 | 24.9 | 7.6 |
| TP-6 | S-2 | 2-3 | Fine to medium SAND, some Silt | 0.0 | 68.0 | 32.0 | 14.1 |
| TP-9 | S-2 | 2 | Fine to medium SAND and Silt, trace Gravel | 5.3 | 59.3 | 35.4 | 10.2 |
| TP-13 | S-3 | 3 | Medium to coarse SAND, trace Silt | 0.5 | 97.5 | 2.0 | 4.4 |

Notes:

1. Refer to **Appendix D** for laboratory results.



N

- LEGEND**
- B-1 Test Boring Location and Designation
 - OW-1 Test Pit Location and Designation
 - INDICATES AN OBSERVATION WELL INSTALLED
 - EXISTING GROUND SURFACE CONTOUR

NOTES

- 1) BASE PLAN WAS DERIVED FROM A PLAN ENTITLED "BORING/TEST PIT/OBSERVATION WELL LOCATION PLAN, 35' STEEL POND, HUDSON, NEW HAMPSHIRE" DATED APRIL, 2006. ORIGINAL SCALE 1" = 300' AND PLANS REVISED ELECTRONICALLY FROM W/S OF GEOTECHNICAL ASSOCIATES, INC. (GTA), INC. OF LONDON, ONTARIO, NEW HAMPSHIRE BETWEEN THE DATES MARCH 17, 2008 BY NEW HAMPSHIRE ENGINEER SUE BETHUNE, LICENSE NO. 674256 TO MARCH 25, 2008. TEST BORINGS AND TEST PITS WERE OBSERVED AND LOGGED.
- 2) TEST BORINGS B-1 THROUGH B-20 AND TEST PITS TP-1 THROUGH TP-22 LOCATIONS WERE DETERMINED BY A SURVEY PERFORMED BY RANNEY/SWANSON, INC. OF WINDSOR, NEW HAMPSHIRE.

THIS DRAWING AND ALL INFORMATION CONTAINED HEREIN ARE THE PROPERTY OF GZA GEOTECHNICAL ASSOCIATES, INC. (GTA) AND ARE NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF GTA. ANY UNAUTHORIZED USE OF THIS DRAWING OR INFORMATION CONTAINED HEREIN IS STRICTLY PROHIBITED. THE USER OF THIS DRAWING OR INFORMATION CONTAINED HEREIN SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE USER OF THIS DRAWING OR INFORMATION CONTAINED HEREIN SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE USER OF THIS DRAWING OR INFORMATION CONTAINED HEREIN SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

PRELIMINARY GEOTECHNICAL ENGINEERING STUDY
 RIVER PLACE
 HUDSON, NEW HAMPSHIRE
 SITE AND SUBSURFACE EXPLORATION LOCATION PLAN

PROJ. MGR.: JHLH
 DESIGNED BY: HAN
 REVIEWED BY: JVE
 DRAWN BY: BJE
 SCALE: AS SHOWN
 DATE: APR 2006

GRAPHIC SCALE 1" = 300'
 0 150 300 450

GZA
 Geotechnical, Inc.
 Engineers and Scientists

| REV. NO. | DESCRIPTION | BY | DATE |
|----------|-------------|----|------|
| | | | |
| | | | |
| | | | |

PROJECT NO.
 24050.01

FIGURE NO.
 2



GZA
GeoEnvironmental, Inc.
Engineers and Scientists

River Place
Hudson, New Hampshire

Boring No.: B-1
Page: 1 of 1
File No.: 04.0024050.01
Check: RAB

Contractor: New Hampshire Boring, Inc.
Foreman: Ken Smith
Logged by: Chris Melby
Date Start/Finish: 3-18-06 / 3-18-06
Boring Location: See Exploration Location Plan
GS Elev.: 136.0 ft Datum: NGVD

Auger/Casing: HSA
Sampler: SS
Type: HSA
I.D.: 4.25 in
Hammer Wt.: 140 lb
Hammer Fall: 30 in
Rig Type: Dietrich D50 Truck Mounted Rtg

| GROUNDWATER READINGS | | | | |
|----------------------|------|-------|--------|------|
| Date | Time | Depth | Casing | Stab |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| Depth (ft) | Sample Information | | | | | Sample Description & Classification | Stratum Desc. | Remarks | Equipment Installed |
|------------|--------------------|-----------------|------------|----------------|-----------------------|---|-------------------|---------|------------------------|
| | No. | Pen./ Rec. (In) | Depth (ft) | Blows (/6") | Field Test Data (ppm) | | | | |
| | | | | | | | | | |
| 5 | S-2 | 24/0 | 5.0-7.0 | 16-10 12-19 | ND | No Recovery Auger cuttings description: Brown, fine to medium SAND, little Gravel, little Silt. | ASPHALT 0.5 ft | 1 | No Equipment Installed |
| 10 | S-3 | 24/16 | 10.0-12.0 | 9-12 15-16 | ND | Medium dense, light brown, fine to coarse SAND, some Gravel, trace Silt. | | 2 | |
| 15 | S-4 | 24/22 | 15.0-17.0 | 17-36 33-53 | ND | Very dense, light brown, fine to coarse SAND, little Gravel, trace Silt. | SAND | | |
| 20 | S-5 | 24/14 | 20.0-22.0 | 14-15 19-47 | ND | Medium dense, light brown, fine to medium SAND, trace Silt. | | | |
| 25 | S-6 | 3/0 | 25.0-25.3 | 100/4" | NA | No Recovery | | | |
| 30 | S-7 | 2/0 | 30.0-30.2 | 100/2" | NA | No Recovery - spoon refusal Bottom of boring at 30.2 feet below ground surface. Split spoon and auger refusal encountered. | 30.2 ft | | |

SOIL BL WELL BORING LOGS: GPJ, GZA, NH, GDT, 4/18/06

REMARKS

- Soil samples were screened for total volatile organic compounds (VOCs) using a TEI Model 580B organic vapor meter referenced to an isobutylene-in-air standard. Total VOCs detected are reported in parts per million (ppm) in the "Field Test Data" column. "ND" indicates no VOCs detected.
- Piece of Asphalt in spoon tip.

All depth measurements are approximate. Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.: B-1



GZA
GeoEnvironmental, Inc.
Engineers and Scientists

River Place
Hudson, New Hampshire

Boring No.: B-2
Page: 1 of 1
File No.: 04.0024050.01
Check: RAB

Contractor: New Hampshire Boring, Inc.
Foreman: Ken Smith
Logged by: Chris Melby
Date Start/Finish: 3-17-06 / 3-17-06
Boring Location: See Exploration Location Plan
GS Elev.: 150.6 ft Datum: NGVD

Auger/
Casing Sampler
Type: HSA SS
I.D.: 2.25 in 1.38 in
Hammer Wt.: 140 lb
Hammer Fall: 30 in
Rig Type: Dietrich D50 Truck Mounted Rig

| GROUNDWATER READINGS | | | | |
|----------------------|------|-------|--------|------|
| Date | Time | Depth | Casing | Stab |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| Depth (ft) | Sample Information | | | | | Sample Description & Classification | Stratum Desc. | Remarks | Equipment Installed |
|------------|--------------------|-----------------|------------|--------------|-----------------------|--|----------------------------------|---------|------------------------|
| | No. | Pen./ Rec. (in) | Depth (ft) | Blows (/6") | Field Test Data (ppm) | | | | |
| 5 | S-1 | 24/12 | 0.0-2.0 | 8-7 9-8 | ND | S-1A: Medium dense, dark brown, fine to medium SAND, little Organics, little Silt. Topsoil S-1B: Medium dense, light brown, fine to medium SAND, little Silt. | 0.3 ft ASPHALT 0.5 ft TOPSOIL | 1 | No Equipment Installed |
| | S-2 | 24/12 | 5.0-7.0 | 7-7 9-10 | ND | Medium dense, light brown, medium to coarse SAND, little Gravel, trace Silt. | | | |
| 10 | S-3 | 24/14 | 10.0-12.0 | 7-7 7-6 | ND | Medium dense, light brown, fine to coarse SAND, trace Silt. | SAND | | |
| 15 | S-4 | 24/13 | 15.0-17.0 | 29-6 9-10 | ND | Medium dense, light brown, fine to coarse SAND, trace Silt. Moist | | | |
| 20 | S-5 | 24/20 | 20.0-22.0 | 6-7 8-10 | ND | Medium dense, light brown, fine to coarse SAND, trace Silt. Gravel at top of spoon. | | | |
| 25 | | | | | | Bottom of boring at 22 feet below ground surface. No refusal encountered. | 22.0 ft | | |

SOIL BL WELL BORING LOGS.GPJ GZA.NH.GDT.4/18/06

REMARKS

1. Soil samples were screened for total volatile organic compounds (VOCs) using a TEI Model 580B organic vapor meter referenced to an isobutylene-in-air standard. Total VOCs detected are reported in parts per million (ppm) in the "Field Test Data" column. "ND" indicates no VOCs detected.

All depth measurements are approximate. Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.: B-2



GZA
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River Place
Hudson, New Hampshire

Boring No.: B-3
Page: 1 of 1
File No.: 04.0024050.01
Check: RAB

Contractor: New Hampshire Boring, Inc.
Foreman: Ken Smith
Logged by: Chris Melby
Date Start/Finish: 3-17-06 / 3-17-06
Boring Location: See Exploration Location Plan
GS Elev.: 138.7 ft Datum: NGVD

Auger/
Casing Sampler
Type: HSA SS
I.D.: 2.25 in 1.38 in
Hammer Wt.: 140 lb
Hammer Fall: 30 in
Rig Type: Dietrich D50

| GROUNDWATER READINGS | | | | |
|----------------------|------|-------|--------|------|
| Date | Time | Depth | Casing | Stab |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| Depth (ft) | Sample Information | | | | | Sample Description & Classification | Stratum Desc. | Remarks | Equipment Installed |
|------------|--------------------|-----------------|------------|----------------|-----------------------|--|--|---------|------------------------|
| | No. | Pen./ Rec. (in) | Depth (ft) | Blows (/6") | Field Test Data (ppm) | | | | |
| 5 | S-1 | 24/12 | 0.0-2.0 | 3-9 6-4 | ND | S1A: Medium dense, brown, fine to medium SAND, some Silt, little Organics. Topsoil S1B: Medium dense, light brown, fine to medium SAND, some Silt, trace Root Figers. Subsoil | TOPSOIL 1.0 ft SUBSOIL 2.0 ft | 1 | No Equipment Installed |
| | S-2 | 24/10 | 5.0-7.0 | 3-3 10-7 | ND | Medium dense, brown, medium to coarse SAND and Gravel, trace Silt. | SAND 8.5 ft | | |
| 10 | S-3 | 24/21 | 10.0-12.0 | 10-14 13-16 | ND | Very stiff, light brown, SILT, some fine Sand. | SILT | | |
| 15 | S-4 | 24/16 | 15.0-17.0 | 5-9 13-12 | ND | Very stiff, light brown, SILT, some fine Sand. Wet | SILT | | |
| 20 | S-5 | 24/19 | 20.0-22.0 | 7-7 11-10 | ND | Very stiff, light brown, SILT, little fine Sand. Wet | SILT | | |
| 25 | | | | | | Bottom of boring at 22 feet below ground surface. No refusal encountered. | 22.0 ft | | |

SOIL BL WELL BORING LOGS.GPJ GZA NH.GDT 4/18/06

REMARKS

1. Soil samples were screened for total volatile organic compounds (VOCs) using a TEI Model 580B organic vapor meter referenced to an isobutylene-in-air standard. Total VOCs detected are reported in parts per million (ppm) in the "Field Test Data" column. "ND" indicates no VOCs detected.

All depth measurements are approximate. Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.: B-3



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River Place
Hudson, New Hampshire

Boring No.: B-4
Page: 1 of 1
File No.: 04.0024050.01
Check: RAB

Contractor: New Hampshire Boring, Inc.
Foreman: Ken Smith
Logged by: Chris Melby
Date Start/Finish: 3-17-06 / 3-17-06
Boring Location: See Exploration Location Plan
GS Elev.: 132.8 ft Datum: NGVD

Auger/
Casing
Type: HSA
I.D.: 2.25 in
Hammer Wt.:
Hammer Fall:
Rlg Type: Dietrich D50

Sampler
SS
1.38 in
140 lb
30 in

| GROUNDWATER READINGS | | | | |
|----------------------|------|-------|--------|------|
| Date | Time | Depth | Casing | Stab |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| Depth (ft) | Sample Information | | | | | Sample Description & Classification | Stratum Desc. | Remarks | Equipment Installed |
|------------|--------------------|-----------------|------------|---------------|-----------------------|--|--|---------|------------------------|
| | No. | Pen./ Rec. (in) | Depth (ft) | Blows (/6") | Field Test Data (ppm) | | | | |
| 5 | S-1 | 24/16 | 0.0-2.0 | 8-4 1-2 | ND | S-1A (Top 12 inches): Loose, dark brown, fine to medium SAND, some Silt, little Organics. Topsoil S-1B (Bottom 4 inches): Light brown, SILT, little fine Sand, trace Root Fibers. Subsoil | TOPSOIL 1.0 ft SUBSOIL 2.5 ft | 1 | No Equipment Installed |
| | S-2 | 24/20 | 5.0-7.0 | 3-5 7-8 | ND | S-2A: Stiff, light brown, SILT and fine Sand. S-2B: Brown, fine to coarse SAND, trace Silt. | 6.0 ft | | |
| 10 | S-3 | 24/14 | 10.0-12.0 | 5-8 12-15 | ND | Medium dense, brown, medium to coarse SAND, trace Silt. Wet | SAND | | |
| 15 | S-4 | 24/18 | 15.0-17.0 | 4-5 9-9 | ND | Medium dense, brown, medium to coarse SAND, trace Silt. | | | |
| 20 | S-5 | 24/21 | 20.0-22.0 | 5-10 11-16 | ND | Medium dense, brown, medium to coarse SAND, trace Silt. | 22.0 ft | | |
| 25 | | | | | | Bottom of boring at 22 feet below ground surface. No refusal encountered. | | | |

SOIL BORE LOGS.GPJ GZA NH.GDT 4/18/06

REMARKS

1. Soil samples were screened for total volatile organic compounds (VOCs) using a TEI Model 580B organic vapor meter referenced to an isobutylene-in-air standard. Total VOCs detected are reported in parts per million (ppm) in the "Field Test Data" column. "ND" indicates no VOCs detected.

All depth measurements are approximate. Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.: B-4



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River Place
Hudson, New Hampshire

Boring No.: B-5
Page: 1 of 1
File No.: 04.0024050.01
Check: RAB

Contractor: New Hampshire Boring, Inc.
Foreman: Ken Smith
Logged by: Chris Melby
Date Start/Finish: 3-17-06 / 3-17-06
Boring Location: See Exploration Location Plan
GS Elev.: 153.9 ft Datum: NGVD

Auger/ Casing Sampler
Type: Auger SS
I.D.: 2.25 in 1.38 in
Hammer Wt.: 140 lb
Hammer Fall: 30 in
Rig Type: Dietrich D50

| GROUNDWATER READINGS | | | | |
|----------------------|------|-------|--------|------|
| Date | Time | Depth | Casing | Stab |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| Depth (ft) | Sample Information | | | | | Sample Description & Classification | Stratum Desc. | Remarks | Equipment Installed |
|------------|--------------------|-----------------|------------|-------------|-----------------------|---|---------------|---|------------------------|
| | No. | Pen./ Rec. (in) | Depth (ft) | Blows (/6") | Field Test Data (ppm) | | | | |
| 5 | S-1 | 24/18 | 0.0-2.0 | 5-6 5-7 | ND | S-1A (Top 9 inches): Medium dense, dark brown, fine to medium SAND, little Organics, little Silt. S-1B (Bottom 9 inches): Light brown, fine to medium SAND, little Silt. | TOPSOIL | 1 | No Equipment Installed |
| | 1.0 ft | SAND | S-2 | 24/12 | 5.0-7.0 | | 12-14 9-18 | | |
| 8.0 ft | COBBLES | | | | | 3 | | | |
| 9.0 ft | SAND AND GRAVEL | | S-3 | 24/18 | 10.0-12.0 | 41-51 52-87 | ND | Very dense, brown, fine to medium SAND, some Gravel, little Silt. | |
| 13.2 ft | | 5 | | | | | | | |
| 15 | S-4 | 0/0 | 13.2-13.2 | 50/0" | | No Recovery Auger and spoon refusal encountered at 13.2 feet below ground surface. | | | |

SOIL B/L WELL BORING LOGS.GPJ GZA NH.GDT 4/18/06

REMARKS

- Soil samples were screened for total volatile organic compounds (VOCs) using a TEI Model 580B organic vapor meter referenced to an isobutylene-in-air standard. Total VOCs detected are reported in parts per million (ppm) in the "Field Test Data" column. "ND" indicates no VOCs detected.
- Rock lodged in spoon tip.
- Auger encountered cobbles at 8 to 9 feet below ground surface.
- Additional boring drilled approximately 10 feet south. Augers advanced to refusal at 13.2 feet below ground surface. No sampling performed. Cobbles encountered at approximately 9 feet below ground surface
- Additional boring drilled approximately 20 feet south. Auger refusal encountered at approximately 2 feet below ground surface. No sampling performed.

All depth measurements are approximate. Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.: B-5



GZA
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River Place
Hudson, New Hampshire

Boring No.: B-6
Page: 1 of 1
File No.: 04.0024050.01
Check: RAB

Contractor: New Hampshire Boring, Inc.
Foreman: Matt Stone
Logged by: Chris Melby
Date Start/Finish: 3-20-06 / 3-20-06
Boring Location: See Exploration Location Plan
GS Elev.: 119.8 ft Datum: NGVD

Auger/Casing: HSA
Sampler: SS
Type: HSA
I.D.: 2.25 in
Hammer Wt.: 140 lb
Hammer Fall: 30 in
Rig Type: Dietrich D50

| GROUNDWATER READINGS | | | | |
|----------------------|------|-------|--------|------|
| Date | Time | Depth | Casing | Stab |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| Depth (ft) | Sample Information | | | | | Sample Description & Classification | Stratum Desc. | Remarks | Equipment Installed |
|------------|--------------------|---------------|------------|----------------|-----------------------|--|--------------------|---------|------------------------|
| | No. | Pen/Rec. (in) | Depth (ft) | Blows (/6") | Field Test Data (ppm) | | | | |
| 0-5 | S-1 | 24/18 | 0.0-2.0 | 4-5 | ND | S-1A: Medium dense, dark brown, fine to medium SAND, some Organics, little Silt. Topsoil S-1B: Medium dense, light brown, SILT, some fine Sand. | 0.5 ft TOPSOIL | 1 | No Equipment Installed |
| | | | 2.0 | 7-6 | | | 2.0 ft SUBSOIL | | |
| 5-10 | S-2 | 24/20 | 7.0-9.0 | 6-5 6-7 | ND | Medium dense, light brown, SILT, some fine Sand. | | | |
| 10-15 | S-3 | 24/18 | 10.0-12.0 | 5-4 5-4 | ND | Loose, light brown, fine SAND, some Silt. | FINE SAND AND SILT | | |
| 15-20 | S-4 | 24/22 | 15.0-17.0 | 5-4 6-8 | ND | Loose, light brown, fine SAND, some Silt. | | 2 | |
| 20-25 | S-5 | 24/19 | 20.0-22.0 | 21-24 20-10 | ND | Dense, light brown, SILT and fine Sand. | | | |
| 25-22 | | | | | | Bottom of boring at 22 feet below ground surface. No refusal encountered. | 22.0 ft | 3 | |

SOIL BELL WELL BORING LOGS.GPJ GZA NH.GDT 4/18/06

REMARKS

- Soil samples were screened for total volatile organic compounds (VOCs) using a TEI Model 580B organic vapor meter referenced to an isobutylene-in-air standard. Total VOCs detected are reported in parts per million (ppm) in the "Field Test Data" column. "ND" indicates no VOCs detected.
- Groundwater encountered at approximately 15 feet below ground surface based on soil samples recovered.
- Cobbles encountered.

All depth measurements are approximate. Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.: B-6



GZA
GeoEnvironmental, Inc.
Engineers and Scientists

River Place
Hudson, New Hampshire

Boring No.: B-7
Page: 1 of 1
File No.: 04.0024050.01
Check: RAB

Contractor: New Hampshire Boring, Inc.
Foreman: Matt Stone
Logged by: Chris Melby
Date Start/Finish: 3-20-06 / 3-20-06
Boring Location: See Exploration Location Plan
GS Elev.: 111.2 ft Datum: NGVD

Auger/
Casing
Type: HSA
I.D.: 2.25 in
Hammer Wt.:
Hammer Fall:
Rig Type: Dietrich D50

Sampler
SS
1.38 in
140 lb
30 in

| GROUNDWATER READINGS | | | | |
|----------------------|------|-------|--------|------|
| Date | Time | Depth | Casing | Stab |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| Depth (ft) | Sample Information | | | | | Sample Description & Classification | Stratum Desc. | Remarks | Equipment Installed |
|------------|--------------------|-----------------|------------|-------------|-----------------------|--|--|---------|------------------------|
| | No. | Pen./ Rec. (In) | Depth (ft) | Blows (/6") | Field Test Data (ppm) | | | | |
| 5 | S-1 | 24/14 | 0.0-2.0 | 5-5 5-3 | ND | S1A: Medium dense, dark brown, fine to medium SAND, some Organics, some Silt. S-1B: Medium dense, light brown, SILT and Sand. | TOPSOIL 0.5 ft SUBSOIL 2.5 ft | 1 | No Equipment Installed |
| | S-2 | 24/24 | 5.0-7.0 | 6-6 6-8 | ND | Medium dense, light brown, fine SAND, some Silt. Damp | SILTY SAND 6.5 ft | 2 | |
| 10 | S-3 | 24/20 | 10.0-12.0 | 6-7 6-5 | ND | Stiff, light brown, SILT, little fine Sand. Wet | | | |
| 15 | S-4 | 24/24 | 15.0-17.0 | 7-7 6-5 | ND | Stiff, light brown, SILT, little Sand. Wet | SILT | | |
| 20 | S-5 | 24/24 | 20.0-22.0 | 8-7 7-7 | ND | Stiff, light brown, SILT with Silt and Clay seams, trace, fine Sand. Wet | | | |
| 25 | | | | | | Bottom of boring at 22 feet below ground surface. No refusal encountered. | 22.0 ft | | |

SOIL BORE LOGS.GPJ GZA NH.GDT 4/18/06

REMARKS

- Soil samples were screened for total volatile organic compounds (VOCs) using a TEI Model 580B organic vapor meter referenced to an isobutylene-in-air standard. Total VOCs detected are reported in parts per million (ppm) in the "Field Test Data" column. "ND" indicates no VOCs detected.
- Groundwater encountered at 6 feet below ground surface based on soil samples recovered.

All depth measurements are approximate. Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.: B-7



GZA
GeoEnvironmental, Inc.
Engineers and Scientists

River Place
Hudson, New Hampshire

Boring No.: B-8
Page: 1 of 1
File No.: 04.0024050.01
Check: RAB

Contractor: New Hampshire Boring, Inc.
Foreman: Matt Stone
Logged by: Chris Melby
Date Start/Finish: 3-20-06 / 3-20-06
Boring Location: See Exploration Location Plan
GS Elev.: 116.6 ft Datum: NGVD

Auger/Casing: Auger
Sampler: SS
Type: Auger
I.D.: 2.25 in
Hammer Wt.: 140 lb
Hammer Fall: 30 in
Rig Type: Dietrich D50

| GROUNDWATER READINGS | | | | |
|----------------------|------|-------|--------|------|
| Date | Time | Depth | Casing | Stab |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| Depth (ft) | Sample Information | | | | | Sample Description & Classification | Stratum Desc. | Remarks | Equipment Installed |
|------------|--------------------|-----------------|------------|----------------|-----------------------|---|-------------------------------------|---------|------------------------|
| | No. | Pen./ Rec. (in) | Depth (ft) | Blows (#/6") | Field Test Data (ppm) | | | | |
| 5 | S-1 | 24/14 | 0.0-2.0 | 5-3 3-3 | ND | S-1A: Loose, dark brown, fine to medium SAND, some Organics, little Silt. S-1B: Medium stiff, light brown, SILT, some fine Sand. | 0.3 ft TOPSOIL SUBSOIL 2.5 ft | 1 | No Equipment Installed |
| | S-2 | 24/16 | 5.0-7.0 | 4-3 4-4 | ND | Loose, light brown, fine to medium SAND, some Silt. | | | |
| 10 | S-3 | 24/18 | 10.0-12.0 | 6-5 5-6 | ND | Medium dense, light brown, fine to medium SAND and Silt. Moist | | | |
| 15 | S-4 | 24/20 | 15.0-17.0 | 13-12 15-13 | ND | Medium dense, light brown, fine SAND and Silt. | SILTY SAND | | |
| 20 | S-5 | 24/17 | 20.0-22.0 | 10-12 14-13 | ND | Medium dense, light brown, fine SAND and SILT. Moist | | 2 | |
| 25 | S-6 | 24/17 | 25.0-27.0 | 7-7 7-7 | ND | Medium dense, light brown, SILT and fine Sand. Wet | | | |
| | | | | | | Bottom of boring at 27 feet below ground surface. No refusal encountered. | 27.0 ft | | |

SOIL BORE LOGS GPJ GZA NH.GDT 4/18/06

REMARKS

- Soil samples were screened for total volatile organic compounds (VOCs) using a TEI Model 580B organic vapor meter referenced to an isobutylene-in-air standard. Total VOCs detected are reported in parts per million (ppm) in the "Field Test Data" column. "ND" indicates no VOCs detected.
- Groundwater encountered at approximately 21 feet below ground surface based on soil samples recovered.



GZA
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Engineers and Scientists

River Place
Hudson, New Hampshire

Boring No.: B-9
Page: 1 of 1
File No.: 04.0024050.01
Check: RAB

Contractor: New Hampshire Boring, Inc.
Foreman: Matt Stone
Logged by: Chris Melby
Date Start/Finish: 3-20-06 / 3-20-06
Boring Location: See Exploration Location Plan
GS Elev.: 147.5 ft Datum: NGVD

Auger/
Casing Sampler
Type: Auger SS
I.D.: 2.25 in 1.38 in
Hammer Wt.: 140 lb
Hammer Fall: 30 in
Rig Type: Dietrich D50

| GROUNDWATER READINGS | | | | |
|----------------------|------|-------|--------|------|
| Date | Time | Depth | Casing | Stab |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| Depth (ft) | Sample Information | | | | | Sample Description & Classification | Stratum Desc. | Remarks | Equipment Installed |
|------------|--------------------|-----------------|------------|----------------|-----------------------|---|---------------|---------|------------------------|
| | No. | Pen./ Rec. (in) | Depth (ft) | Blows (/6") | Field Test Data (ppm) | | | | No Equipment Installed |
| 5 | S-1 | 24/12 | 0.0-2.0 | 2-11 16-10 | ND | Medium dense, light brown, fine to coarse SAND, little Gravel, trace Silt. | SAND | 1 | No Equipment Installed |
| | S-2 | 24/15 | 5.0-7.0 | 12-7 9-13 | ND | Medium dense, light brown, fine to medium SAND, trace Silt. | | | |
| 10 | S-3 | 24/14 | 10.0-12.0 | 6-9 14-12 | ND | Medium dense, light brown, fine to medium SAND, little Gravel, little Silt. | 8.5 ft | 2 | |
| 15 | S-4 | 24/18 | 15.0-17.0 | 9-9 9-10 | ND | Medium dense, light brown, fine to medium SAND, some Silt. | | | |
| 20 | S-5 | 24/22 | 20.0-22.0 | 6-10 11-6 | ND | Medium dense, light brown, fine to medium SAND, some Silt. Dry | SILTY SAND | 2 | |
| 25 | S-6 | 24/24 | 25.0-27.0 | 6-7 13-15 | ND | Medium dense, light brown, fine SAND and SILT. Dry | | | |
| 30 | S-7 | 24/20 | 30.0-32.0 | 13-16 13-11 | ND | Medium dense, light brown, fine SAND and SILT. Moist | | | |
| 35 | S-8 | 24/22 | 35.0-37.0 | 12-15 19-23 | ND | Dense, light brown, fine SAND and SILT. Wet | 37.0 ft | | |
| | | | | | | Bottom of boring at 37 feet below ground surface. No refusal encountered. | | | |

SOIL BORE LOGS.GPJ GZA.NH.GDT 4/1 8/06

REMARKS

- Soil samples were screened for total volatile organic compounds (VOCs) using a TEI Model 580B organic vapor meter referenced to an isobutylene-in-air standard. Total VOCs detected are reported in parts per million (ppm) in the "Field Test Data" column. "ND" indicates no VOCs detected.
- Groundwater encountered at 25 feet below ground surface based on soil samples recovered.

All depth measurements are approximate. Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.: B-9



GZA
GeoEnvironmental, Inc.
Engineers and Scientists

River Place
Hudson, New Hampshire

Boring No.: B-10
Page: 1 of 1
File No.: 04.0024050.01
Check: RAB

Contractor: New Hampshire Boring, Inc.
Foreman: Matt Stone
Logged by: Chris Melby
Date Start/Finish: 3-21-06 / 3-22-06
Boring Location: See Exploration Location Plan
GS Elev.: 112.9 ft Datum: NGVD

Auger/Casing Type: Auger I.D.: 4.25 in
Sampler: SS I.D.: 1.38 in
Hammer Wt.: 140 lb
Hammer Fall: 30 in
Rig Type: Dietrich D50

| GROUNDWATER READINGS | | | | |
|----------------------|------|---------|---------|-----------|
| Date | Time | Depth | Casing | Stab |
| 3/21/06 | 1600 | 20.7 ft | GS | 5 minutes |
| 3/22/06 | 0700 | 18.9 ft | GS | 1 day |
| 3/22/06 | 0830 | 18.8 ft | Top PVC | 1 day |
| 3/22/06 | 1520 | 18.8 ft | Top PVC | 1.5 days |
| 4/14/06 | 0930 | 19.6 ft | GS | 23 days |

| Depth (ft) | Sample Information | | | | | Sample Description & Classification | Stratum Desc. | Remarks | Equipment Installed | |
|------------|--------------------|----------------|------------|----------------|-----------------------|---|------------------|---------|---|-------------------|
| | No. | Pen./Rec. (in) | Depth (ft) | Blows (/6") | Field Test Data (ppm) | | | | | |
| 0-2.0 | S-1 | 24/14 | 0.0-2.0 | 5-4 10-16 | ND | Dense, dark brown, fine to medium SAND, some Organics, little Silt. Topsoil | TOPSOIL | 1 | Road Box | Cement |
| 5-7.0 | S-2 | 24/12 | 5.0-7.0 | 21-14 9-6 | ND | Dense, dark brown, fine to medium SAND, little Silt, trace Gravel. | SAND | | 2" ID Solid Sch 40 PVC Well Riser | Cuttings/Backfill |
| 10-12.0 | S-3 | 24/20 | 10.0-12.0 | 11-12 30-37 | ND | Medium dense, gray, fine to medium SAND, trace Silt. Moist | | | 11' Bentonite | |
| 15.0-15.3 | S-4 | 3/0 | 15.0-15.3 | 100/3" | | No Recovery | 15.0 ft BOULDERS | 2 | 13' Sand | 14.5' |
| 20.0-22.0 | S-5 | 24/20 | 20.0-22.0 | 9-10 12-20 | ND | Dense, brown, fine to coarse SAND, little Silt. Wet | SAND | | 2" ID Slotted Sch 40 PVC Well Screen (0.01" Slot) | |
| 25.0 | | | | | | Bottom of boring at 25 feet below ground surface. No refusal encountered. | 25.0 ft | 3 | 24.5' | 25' |

REMARKS

- Soil samples were screened for total volatile organic compounds (VOCs) using a TEI Model 580B organic vapor meter referenced to an isobutylene-in-air standard. Total VOCs detected are reported in parts per million (ppm) in the "Field Test Data" column. "ND" indicates no VOCs detected.
- Probable boulder layer encountered at 15 feet below ground surface.
- Blow in sands encountered overnight at bottom of borehole.

All depth measurements are approximate. Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.: B-10

SOIL BOREHOLE BORING LOGS.GPJ GZA_NH.GDT 4/18/06



GZA
GeoEnvironmental, Inc.
Engineers and Scientists

River Place
Hudson, New Hampshire

Boring No.: B-11
Page: 1 of 1
File No.: 04.0024050.01
Check: RAB

Contractor: New Hampshire Boring, Inc.
Foreman: Matt Stone
Logged by: Chris Melby
Date Start/Finish: 3-22-06 / 3-22-06
Boring Location: See Exploration Location Plan
GS Elev.: 169.6 ft Datum: NGVD

Auger/
Casing: HSA
Type: HSA
I.D.: 2.25 in
Hammer Wt.: 140 lb
Hammer Fall: 30 in
Rig Type: Dietrich D50

Sampler
SS

GROUNDWATER READINGS

| Date | Time | Depth | Casing | Stab |
|------|------|-------|--------|------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| Depth (ft) | Sample Information | | | | | Sample Description & Classification | Stratum Desc. | Remarks | Equipment Installed |
|------------|--------------------|-----------------|------------|-------------|-----------------------|---|-------------------------------------|---------|------------------------|
| | No. | Pen./ Rec. (in) | Depth (ft) | Blows (/8") | Field Test Data (ppm) | | | | No Equipment Installed |
| 0-2.0 | S-1 | 24/12 | 0.0-2.0 | 3-3 3-3 | ND | S-1A: Loose, dark brown, fine to medium SAND, little Organics, some Silt. Topsoil S-1B: Loose, brown, fine to medium SAND, little Silt, trace roots. Subsoil | TOPSOIL 1.0 ft SUBSOIL 2.0 ft | 1 | No Equipment Installed |
| 5-7.0 | S-2 | 24/16 | 5.0-7.0 | 4-4 3-5 | ND | Loose, light brown, fine to medium SAND, some Silt. Dry | SILTY SAND | | |
| 10.0-10.7 | S-3 | 8/1 | 10.0-10.7 | 19-100/2" | ND | Very dense, gray, fine to coarse SAND and Gravel, trace Silt. Dry Bottom of boring at 10.5 feet below ground surface. Split spoon and Auger refusal encountered. | 10.0 ft GRAVEL 10.5 ft | 2 | |

SOIL BOREHOLE BORING LOGS.GPJ GZA NH.GDT 4/13/06

REMARKS

- Soil samples were screened for total volatile organic compounds (VOCs) using a TEI Model 580B organic vapor meter referenced to an isobutylene-in-air standard. Total VOCs detected are reported in parts per million (ppm) in the "Field Test Data" column. "ND" indicates no VOCs detected.
- Additional boring (B-11A) drilled 10 feet southwest. Split spoon refusal encountered at 10.5 feet below ground surface.

All depth measurements are approximate. Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.: B-11



GZA
GeoEnvironmental, Inc.
Engineers and Scientists

River Place
Hudson, New Hampshire

Boring No.: B-12
Page: 1 of 1
File No.: 04.0024050.01
Check: RAB

Contractor: New Hampshire Boring, Inc.
Foreman: Matt Stone
Logged by: Chris Melby
Date Start/Finish: 3-22-06 / 3-22-06
Boring Location: See Exploration Location Plan
GS Elev.: 132.1 ft Datum: NGVD

Auger/Casing: Auger
Sampler: SS
Type: Auger
I.D.: 2.25 in
Hammer Wt.: 140 lb
Hammer Fall: 30 in
Rig Type: Dietrich D50

| GROUNDWATER READINGS | | | | |
|----------------------|------|--------|--------|------------|
| Date | Time | Depth | Casing | Stab |
| 3/22/06 | 1445 | 3.0 ft | GS | 10 minutes |
| | | | | |
| | | | | |
| | | | | |

| Depth (ft) | Sample Information | | | | | Sample Description & Classification | Stratum Desc. | Remarks | Equipment Installed |
|------------|--------------------|-----------------|------------|----------------|-----------------------|--|-------------------|---------|------------------------|
| | No. | Pen./ Rec. (in) | Depth (ft) | Blows (/6") | Field Test Data (ppm) | | | | |
| | S-1 | 24/12 | 0.0-2.0 | 3-6 5-5 | ND | Medium dense, dark brown, fine to medium SAND, some Silt, little Organics. Moist | TOPSOIL 2.0 ft | 1 | No Equipment Installed |
| 5 | S-2 | 24/10 | 5.0-7.0 | 5-7 10-9 | ND | Medium dense, light brown, SILT, some, fine SAND. Moist | | | |
| 10 | S-3 | 24/20 | 10.0-12.0 | 14-17 13-16 | ND | Medium dense, light brown to gray, fine to medium SAND and Silt, little Gravel. Wet | SILTY SAND | | |
| 15 | S-4 | 24/24 | 15.0-17.0 | 5-6 7-12 | ND | Medium dense, light brown, Clayey SILT and fine SAND, trace Gravel. Wet | | | |
| 20 | S-5 | 9/9 | 20.0-20.8 | 83-50/3" | ND | Very dense, light brown, fine to medium SAND, and Clayey SILT, little Gravel. Wet Bottom of boring at 20.75 feet below ground surface. Split refusal encountered. | 20.8 ft | 2 | |

SOIL BORE LOGS GPJ GZA NH GDT 4/18/06

REMARKS

- Soil samples were screened for total volatile organic compounds (VOCs) using a TEI Model 580B organic vapor meter referenced to an isobutylene-in-air standard. Total VOCs detected are reported in parts per million (ppm) in the "Field Test Data" column. "ND" indicates no VOCs detected.
- Rock lodged in spoon tip.

All depth measurements are approximate. Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.: B-12



GZA
GeoEnvironmental, Inc.
Engineers and Scientists

River Place
Hudson, New Hampshire

Boring No.: B-13
Page: 1 of 1
File No.: 04.0024050.01
Check: RAB

Contractor: New Hampshire Boring, Inc.
Foreman: Matt Stone
Logged by: Chris Melby
Date Start/Finish: 3-23-06 / 3-23-06
Boring Location: See Exploration Location Plan
GS Elev.: 127.8 ft Datum: NGVD

Auger/
Casing
Type: HSA
I.D.: 2.25 in
Hammer Wt.:
Hammer Fall:
Rig Type: Dietrich D50

Sampler
SS
1.38 in
140 lb
30 in

| GROUNDWATER READINGS | | | | |
|----------------------|------|---------|--------|------------|
| Date | Time | Depth | Casing | Stab |
| 3/23/06 | 0720 | 12.3 ft | GS | 10 minutes |
| 3/23/06 | 0825 | 5.6 ft | GS | 1.25 hour |
| | | | | |
| | | | | |

| Depth (ft) | Sample Information | | | | | Sample Description & Classification | Stratum Desc. | Remarks | Equipment Installed |
|------------|--------------------|-----------------|------------|---------------|-----------------------|--|-------------------|---------|------------------------|
| | No. | Pen./ Rec. (in) | Depth (ft) | Blows (/6") | Field Test Data (ppm) | | | | |
| 5 | S-1 | 24/10 | 0.0-2.0 | 2-3 3-4 | ND | S-1A: Loose, dark brown, fine to medium SAND, some Organics, some Silt. Topsoil S-1B: Loose, light brown, fine to medium SAND, some Silt. | TOPSOIL 0.5 ft | 1 | No Equipment Installed |
| | S-2 | 24/22 | 5.0-7.0 | 4-5 5-5 | ND | Medium dense, light brown, fine SAND and Silt. Moist | SILTY SAND | | |
| 10 | S-3 | 24/24 | 10.0-12.0 | 8-11 10-12 | ND | Medium dense, gray, fine to medium SAND, some Silt. Wet | | | |
| 15 | S-4 | 1/0 | 15.0-15.1 | 100/1" | ND | No Recovery Bottom of boring at 15.1 feet below ground surface. Split spoon and Auger refusal encountered. | 15.1 ft | 2 | |

SOIL BELL WELL BORING LOGS GPJ GZA NH GDT 4/18/06

REMARKS

- Soil samples were screened for total volatile organic compounds (VOCs) using a TEI Model 580B organic vapor meter referenced to an isobutylene-in-air standard. Total VOCs detected are reported in parts per million (ppm) in the "Field Test Data" column. "ND" indicates no VOCs detected.
- Additional boring (B-13A) drilled approximately 10 feet north.

All depth measurements are approximate. Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.: B-13



GZA
GeoEnvironmental, Inc.
Engineers and Scientists

River Place
Hudson, New Hampshire

Boring No.: B-13A
Page: 1 of 1
File No.: 04.0024050.01
Check: RAB

Contractor: New Hampshire Boring, Inc.
Foreman: Matt Stone
Logged by: Chris Melby
Date Start/Finish: 3-23-06 / 3-23-06
Boring Location: See Exploration Location Plan
GS Elev.: 128.1 ft Datum: NGVD

Auger/
Casing
Type: HSA
I.D.: 2.25 in
Hammer Wt.:
Hammer Fall:
Rig Type: Dietrich D50

Sampler
SS
1.38 in
140 lb
30 in

GROUNDWATER READINGS

| Date | Time | Depth | Casing | Stab |
|---------|------|---------|--------|------------|
| 3/23/06 | 0720 | 12.3 ft | GS | 10 minute: |
| 3/23/06 | 0825 | 5.6 ft | GS | 1.25 hour |
| | | | | |
| | | | | |

| Depth (ft) | Sample Information | | | | | Sample Description & Classification | Stratum Desc. | Remarks | Equipment Installed |
|------------|--------------------|-----------------|------------|----------------|-----------------------|--|---------------|---------|------------------------|
| | No. | Pen./ Rec. (in) | Depth (ft) | Blows (/6") | Field Test Data (ppm) | | | | |
| 0.5 ft | | | | | | See B-13 for soil descriptions. | TOPSOIL | 1 | No Equipment Installed |
| 15 | S-1 | 24/14 | 15.0-17.0 | 25-22 22-35 | ND | Dense, gray to brown, fine to coarse SAND and Gravel, little Silt. Wet | 15.5 ft | | |
| 20 | S-2 | 1/0 | 19.0-19.1 | 100/1" | | No Recovery. Bottom of boring at 19.1 feet below ground surface. Split spoon and Auger refusal encountered. | 19.1 ft | | |
| 25 | | | | | | | | | |

REMARKS

1. Soil samples were screened for total volatile organic compounds (VOCs) using a TEI Model 580B organic vapor meter referenced to an isobutylene-in-air standard. Total VOCs detected are reported in parts per million (ppm) in the "Field Test Data" column. "ND" indicates no VOCs detected.

All depth measurements are approximate. Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

SOIL B/L WELL BORING LOGS.GPJ GZA NH.GDT 4/18/06

Boring No.: B-13A



GZA
GeoEnvironmental, Inc.
Engineers and Scientists

River Place
Hudson, New Hampshire

Boring No.: B-14
Page: 1 of 1
File No.: 04.0024050.01
Check: RAB

Contractor: New Hampshire Boring, Inc.
Foreman: Matt Stone
Logged by: Chris Melby
Date Start/Finish: 3-23-06 / 3-23-06
Boring Location: See Exploration Location Plan
GS Elev.: 133.3 ft Datum: NGVD

Auger/Casing: HSA
Sampler: SS
Type: HSA
I.D.: 2.25 in
Hammer Wt.: 140 lb
Hammer Fall: 30 in
Rig Type: Dietrich D50

| GROUNDWATER READINGS | | | | |
|----------------------|------|-------|--------|------|
| Date | Time | Depth | Casing | Stab |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| Depth (ft) | Sample Information | | | | | Sample Description & Classification | Stratum Desc. | Remarks | Equipment Installed |
|------------|--------------------|-----------------|------------|-------------|-----------------------|--|--|---------|------------------------|
| | No. | Pen./ Rec. (In) | Depth (ft) | Blows (/6") | Field Test Data (ppm) | | | | |
| 5 | S-1 | 24/16 | 0.0-2.0 | 2-2 3-5 | ND | S-1A: Loose, dark brown, fine to medium SAND, some Organics, some Silt. Topsoil S-1B: Loose, light brown, fine SAND and Silt. | TOPSOIL ----- 1.2 ft SUBSOIL ----- 2.5 ft | 1 | No Equipment Installed |
| | S-2 | 24/19 | 5.0-7.0 | 5-6 8-7 | ND | Medium dense, light brown, fine to medium SAND, little Silt. Wet | SAND | 2 | |
| 10 | S-3 | 24/24 | 9.0-11.0 | 4-6 6-4 | ND | Medium dense, brown, fine to medium SAND, little Silt. Wet | | | |
| 15 | | | | | | Bottom of boring at 11 feet below ground surface. No refusal encountered. | 11.0 ft | | |

REMARKS

- Soil samples were screened for total volatile organic compounds (VOCs) using a TEI Model 580B organic vapor meter referenced to an isobutylene-in-air standard. Total VOCs detected are reported in parts per million (ppm) in the "Field Test Data" column. "ND" indicates no VOCs detected.
- Boring terminated due to blow in/running sands.

All depth measurements are approximate. Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.: B-14

SOIL BELL WELL BORING LOGS.GPJ GZA_NH.GDT 4/18/06



GZA
GeoEnvironmental, Inc.
Engineers and Scientists

River Place
Hudson, New Hampshire

Boring No.: B-15
Page: 1 of 1
File No.: 04.0024050.01
Check: RAB

Contractor: New Hampshire Boring, Inc.
Foreman: Matt Stone
Logged by: Chris Melby
Date Start/Finish: 3-23-06 / 3-23-06
Boring Location: See Exploration Location Plan
GS Elev.: 133.7 ft Datum: NGVD

Auger/
Casing: HSA
Type: HSA
I.D.: 2.25 in
Hammer Wt.:
Hammer Fall: 30 in
Rig Type: Dietrich D50

Sampler: SS

GROUNDWATER READINGS

| Date | Time | Depth | Casing | Stab |
|---------|------|--------|--------|------------|
| 3/23/06 | 1115 | 3.7 ft | GS | 15 minutes |
| | | | | |
| | | | | |

| Depth (ft) | Sample Information | | | | | Sample Description & Classification | Stratum Desc. | Remarks | Equipment Installed |
|------------|--------------------|-----------------|------------|-------------|-----------------------|--|-------------------|---------|------------------------|
| | No. | Pen./ Rec. (in) | Depth (ft) | Blows (/6") | Field Test Data (ppm) | | | | |
| | S-1 | 24/18 | 0.0-2.0 | 6-5 4-5 | ND | S-1A: Loose, dark brown, fine to medium SAND, some Silt, little Organics. Topsoil S-1B: Loose, light brown, fine to medium SAND, some Silt. | TOPSOIL 0.5 ft | 1 | No Equipment Installed |
| 5 | S-2 | 24/18 | 5.0-7.0 | 5-4 4-8 | ND | Loose, brown, fine to coarse SAND, little Silt, trace Gravel. Bottom 1 inch: Loose, light brown, fine SAND and Silt. | SAND | | |
| 10 | S-3 | 24/24 | 10.0-12.0 | 7-9 8-11 | ND | Medium dense, brown, fine to medium SAND, trace Silt. Wet | | | |
| 15 | | | | | | Bottom of boring at 12 feet below ground surface. | 12.0 ft | 2 | |

REMARKS

- Soil samples were screened for total volatile organic compounds (VOCs) using a TEI Model 580B organic vapor meter referenced to an isobutylene-in-air standard. Total VOCs detected are reported in parts per million (ppm) in the "Field Test Data" column. "ND" indicates no VOCs detected.
- Boring terminated due to blow in/running sands.

All depth measurements are approximate. Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.: B-15

SOIL BLOWING LOGS.GPJ GZA NH.GDT 4/18/06



GZA
GeoEnvironmental, Inc.
Engineers and Scientists

River Place
Hudson, New Hampshire

Boring No.: B-16
Page: 1 of 1
File No.: 04.0024050.01
Check: RAB

Contractor: New Hampshire Boring, Inc.
Foreman: Matt Stone
Logged by: Chris Melby
Date Start/Finish: 3-23-06 / 3-23-06
Boring Location: See Exploration Location Plan
GS Elev.: 129.7 ft Datum: NGVD

Auger/
Casing
Type: HSA
I.D.: 2.25 in
Hammer Wt.:
Hammer Fall:
Rig Type:

Sampler
SS
1.38 in
140 lb
30 in

GROUNDWATER READINGS

| Date | Time | Depth | Casing | Stab |
|------|------|-------|--------|------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| Depth (ft) | Sample Information | | | | | Sample Description & Classification | Stratum Desc. | Remarks | Equipment Installed |
|------------|--------------------|-----------------|------------|-------------|-----------------------|--|--|---------|------------------------|
| | No. | Pen./ Rec. (In) | Depth (ft) | Blows (/6") | Field Test Data (ppm) | | | | |
| 0-5 | S-1 | 24/12 | 0.0-2.0 | 2-5 4-4 | ND | S-1A: Loose, dark brown, fine to medium SAND, little Organics, trace Silt. Topsoil S-1B: Loose, light brown, SILT, trace fine Sand. | TOPSOIL 1.0 ft SUBSOIL 2.0 ft | 1 | No Equipment Installed |
| 5-10 | S-2 | 24/16 | 5.0-7.0 | 6-9 6-7 | ND | S-2A: Medium dense, light brown, fine SAND and SILT. Dry S-2B: Medium dense, brown, fine to coarse SAND, trace Silt. Wet | 6.0 ft | 2 | |
| 10-12 | S-3 | 24/20 | 10.0-12.0 | 6-9 5-6 | ND | Medium dense, brown, fine to coarse SAND, trace Silt. Wet | SAND | 3 | |
| 12.0 | | | | | | Bottom of boring at 12 feet below ground surface. | 12.0 ft | 3 | |

REMARKS

- Soil samples were screened for total volatile organic compounds (VOCs) using a TEI Model 580B organic vapor meter referenced to an isobutylene-in-air standard. Total VOCs detected are reported in parts per million (ppm) in the "Field Test Data" column. "ND" indicates no VOCs detected.
- Groundwater encountered approximately 6 feet below ground surface based on soil samples recovered.
- Boring terminated due to blow in/running sands.

All depth measurements are approximate. Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.: B-16

SOIL BL WELL BORING LOGS.GPJ GZA_NH.GDT 4/18/06



GZA
GeoEnvironmental, Inc.
Engineers and Scientists

River Place
Hudson, New Hampshire

Boring No.: B-17
Page: 1 of 1
File No.: 04.0024050.01
Check: RAB

Contractor: New Hampshire Boring, Inc.
Foreman: Matt Stone
Logged by: Chris Melby
Date Start/Finish: 3-24-06 / 3-24-06
Boring Location: See Exploration Location Plan
GS Elev.: 132.6 ft Datum: NGVD

Auger/
Casing Type: HSA Sampler: SS
I.D.: 4.25 in 1.38 in
Hammer Wt.: 140 lb
Hammer Fall: 30 in
Rig Type: Dietrich D50

GROUNDWATER READINGS

| Date | Time | Depth | Casing | Stab |
|---------|------|---------|---------|-----------|
| 3/24/06 | 0830 | 12.0 ft | GS | 15 minute |
| 3/24/06 | 0930 | 9.7 ft | Top PVC | 45 minute |
| 4/14/06 | 1030 | 10.3 ft | GS | 21 days |

| Depth (ft) | Sample Information | | | | | Sample Description & Classification | Stratum Desc. | Remarks | Equipment Installed | |
|------------|--------------------|-----------------|------------|----------------|-----------------------|--|-------------------|---------|---|-----|
| | No. | Pen./ Rec. (in) | Depth (ft) | Blows (/6") | Field Test Data (ppm) | | | | Road box | |
| 5 | S-1 | 24/20 | 0.0-2.0 | 3-6 6-5 | ND | S-1A: Medium dense, dark brown, fine to medium SAND, and Silt, trace Organics. Topsoil S-1B: Stiff, light brown, SILT, some fine Sand. | TOPSOIL 0.5 ft | 1 | 2" ID Solid Sch 40 PVC Well Riser | |
| | S-2 | 24/20 | 4.0-6.0 | 6-6 5-8 | ND | Stiff, brown, SILT, some fine Sand. | SILT | | Cuttings | |
| | S-3 | 24/18 | 9.0-11.0 | 10-11 13-10 | ND | Medium dense, brown, fine to coarse SAND, trace Silt. | 7.5 ft | | 6.2' Bentonite 7.7' Filter Sand 9' | |
| | S-4 | 24/24 | 14.0-16.0 | 8-8 6-8 | ND | S-4A: Medium dense, brown, fine to coarse SAND, little Silt. Wet S-4B: Brown, medium to coarse SAND, trace Gravel, trace Silt. | SAND | | 2" ID Slotted Sch 40 PVC Well Screen (0.01" Slot) | |
| 20 | | | | | | Bottom of boring at 19 feet below ground surface. | 19.0 ft | 2 | | 19' |

REMARKS

- Soil samples were screened for total volatile organic compounds (VOCs) using a TEI Model 580B organic vapor meter referenced to an isobutylene-in-air standard. Total VOCs detected are reported in parts per million (ppm) in the "Field Test Data" column. "ND" indicates no VOCs detected.
- Boring terminated due to blow in/running sands.

All depth measurements are approximate. Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.: B-17

SOIL BL WELL BORING LOGS.GPJ GZA.NH.GDT 4/18/06



GZA
GeoEnvironmental, Inc.
Engineers and Scientists

River Place
Hudson, New Hampshire

Boring No.: B-18
Page: 1 of 1
File No.: 04.0024050.01
Check: RAB

Contractor: New Hampshire Boring, Inc.
Foreman: Matt Stone
Logged by: Chris Melby
Date Start/Finish: 3-23-06 / 3-23-06
Boring Location: See Exploration Location Plan
GS Elev.: 132.4 ft Datum: NGVD

Auger/Casing: HSA
Sampler: SS
Type: HSA
I.D.: 2.25 in
Hammer Wt.: 140 lb
Hammer Fall: 30 in
Rig Type: Dietrich D50

GROUNDWATER READINGS

| Date | Time | Depth | Casing | Stab |
|------|------|-------|--------|------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| Depth (ft) | Sample Information | | | | | Sample Description & Classification | Stratum Desc. | Remarks | Equipment Installed |
|------------|--------------------|-----------------|------------|-------------|-----------------------|--|--|---------|------------------------|
| | No. | Pen./ Rec. (in) | Depth (ft) | Blows (/6") | Field Test Data (ppm) | | | | |
| 5 | S-1 | 24/20 | 0.0-2.0 | 3-5 4-4 | ND | Loose, light brown, fine to medium SAND, little Silt and Organics. Topsoil | TOPSOIL | 1 | No Equipment Installed |
| | S-2 | 24/20 | 2.0-4.0 | 4-5 4-6 | ND | | Loose, gray, medium to coarse SAND, little Silt. Wet | | |
| 10 | S-3 | 24/22 | 10.0-12.0 | 3-6 6-8 | ND | Medium dense, brown, fine to medium SAND, trace Silt. | SAND | 2 | |
| 15 | | | | | | Bottom of boring at 12 feet below ground surface. | 12.0 ft | 3 | |
| 20 | | | | | | | | | |
| 25 | | | | | | | | | |

REMARKS

- Soil samples were screened for total volatile organic compounds (VOCs) using a TEI Model 580B organic vapor meter referenced to an isobutylene-in-air standard. Total VOCs detected are reported in parts per million (ppm) in the "Field Test Data" column. "ND" indicates no VOCs detected.
- Groundwater encountered at approximately 5.5 feet below ground surface based on soil samples recovered.
- Boring terminated due to blow in/running sands.

All depth measurements are approximate. Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.: B-18

SOIL BORE LOGS.GPJ GZA.NH.GDT 4/18/06



GZA
GeoEnvironmental, Inc.
Engineers and Scientists

River Place
Hudson, New Hampshire

Boring No.: B-19
Page: 1 of 1
File No.: 04.0024050.01
Check: RAB

Contractor: New Hampshire Boring, Inc.
Foreman: Matt Stone
Logged by: Chris Melby
Date Start/Finish: 3-22-06 / 3-22-06
Boring Location: See Exploration Location Plan
GS Elev.: 149.2 ft Datum: NGVD

Auger/
Casing: HSA
I.D.: 2.25 in
Hammer Wt.:
Hammer Fall: 140 lb
30 in
Rig Type: Dietrich D50

Sampler
SS

GROUNDWATER READINGS

| Date | Time | Depth | Casing | Stab |
|------|------|-------|--------|------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| Depth (ft) | Sample Information | | | | | Sample Description & Classification | Stratum Desc. | Remarks | Equipment Installed |
|------------|--------------------|-----------------|------------|-------------------|-----------------------|--|-------------------------------|---------|------------------------|
| | No. | Pen./ Rec. (in) | Depth (ft) | Blows (/6") | Field Test Data (ppm) | | | | |
| 0 | S-1 | 24/12 | 0.0-2.0 | 2-4 | ND | S-1A: Loose, dark brown, fine to medium SAND, some Silt, little Organics. Topsoil S-1B: Loose, light brown, fine to medium SAND, some Silt. | TOPSOIL | 1 | No Equipment Installed |
| | | | 2.0 | 3-3 | | | 1.0 ft SUBSOIL | | |
| 5 | S-2 | 24/20 | 5.0-7.0 | 12-15 16-18 | ND | Medium dense, gray to light brown, fine to medium SAND, trace Silt. Dry | SAND | | |
| 10 | S-3 | 24/18 | 10.0-12.0 | 13-14 23-28 | ND | S-3A: Medium dense, gray to light brown, fine to medium SAND, little SILT. Dry S-3B: Hard, light brown, SILT and fine Sand. Dry | 11.9 ft SILT AND FINE SAND | | |
| 15 | S-4 | 19/12 | 15.0-16.6 | 11-42 28-50/1" | ND | Very dense, brown, medium to coarse SAND and Gravel, little Silt. | 14.0 ft SAND AND GRAVEL | 2 | |
| 16.5 | | | | | | Bottom of boring at 16.5 feet below ground surface. Split spoon and Auger refusal encountered. | 16.5 ft | | |

SOIL B. WELL BORING LOGS.GPJ GZA_NH.GDT 4/18/06

REMARKS

1. Soil samples were screened for total volatile organic compounds (VOCs) using a TEI Model 580B organic vapor meter referenced to an isobutylene-in-air standard. Total VOCs detected are reported in parts per million (ppm) in the "Field Test Data" column. "ND" indicates no VOCs detected.
2. Groundwater encountered at approximately 15 below ground surface based on soil samples recovered.



GZA
GeoEnvironmental, Inc.
Engineers and Scientists

River Place
Hudson, New Hampshire

Boring No.: B-20
Page: 1 of 1
File No.: 04.0024050.01
Check: RAB

Contractor: New Hampshire Boring, Inc.
Foreman: Matt Stone
Logged by: Chris Melby
Date Start/Finish: 3-24-06 / 3-24-06
Boring Location: See Exploration Location Plan
GS Elev.: 133.1 ft Datum: NGVD

Auger/Casing: HSA
Sampler: SS
Type: HSA
I.D.: 4.25 in
Hammer Wt.: 140 lb
Hammer Fall: 30 in
Rig Type: Dietrich D50

| GROUNDWATER READINGS | | | | |
|----------------------|------|--------|--------|-----------|
| Date | Time | Depth | Casing | Stab |
| 3/24/06 | 1145 | 3.8 ft | GS | 5 minutes |
| 4/14/06 | 1130 | 3.8 ft | GS | 21 days |
| | | | | |
| | | | | |

| Depth (ft) | Sample Information | | | | | Sample Description & Classification | Stratum Desc. | Remarks | Equipment Installed | |
|------------|--------------------|-----------------|------------|--------------|-----------------------|---|--|---------|--|-----|
| | No. | Pen./ Rec. (in) | Depth (ft) | Blows ((6")) | Field Test Data (ppm) | | | | | |
| 5 | S-1 | 24/14 | 0.0-2.0 | 3-2 3-4 | ND | S-1A: Loose, dark brown, fine to medium SAND, some Silt, little Organics. Topsoil S-1B: Loose, light brown, SILT, little fine Sand, trace root fibers. | TOPSOIL 0.7 ft SUBSOIL 2.0 ft | 1 | Road box | |
| | S-2 | 24/16 | 4.0-6.0 | 4-3 3-4 | ND | Loose, brown, fine SAND and SILT. Wet | SILTY SAND | | Cuttings 2" ID Solid Sch 40 PVC Well Riser 2' Bentonite 3' 4' Filter Sand | |
| 10 | S-3 | 24/20 | 9.0-11.0 | 5-5 6-5 | ND | Medium dense, brown, fine to coarse SAND, trace Silt. Wet | SAND 7.5 ft | | 2" ID Slotted Sch 40 PVC Well Screen (0.01" Slot) 9' | |
| 15 | | | | | | Bottom of boring at 11 feet below ground surface. No refusal encountered. | 11.0 ft | | | 11' |

SOIL BL WELL BORING LOGS.GPJ GZA NH.GDT 4/18/06

REMARKS

1. Soil samples were screened for total volatile organic compounds (VOCs) using a TEI Model 580B organic vapor meter referenced to an isobutylene-in-air standard. Total VOCs detected are reported in parts per million (ppm) in the "Field Test Data" column. "ND" indicates no VOCs detected.

All depth measurements are approximate. Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No.: B-20

APPENDIX C
TEST PIT LOGS

GZA GeoEnvironmental, Inc.

Engineers/Scientists

River Place

Hudson, New Hampshire

380 Harvey Road
Manchester, New Hampshire 03103

Test Pit No. TP-1

Page No. 1 of 1

File No. 04.0024050.01

Checked By: RAB

Excavation Equipment

| | | | | | | |
|----------|------------|------------|----------------------------|---------------|----------------|------------|
| GZA Rep. | C. Melby | Contractor | New Hampshire Boring, Inc. | | Date | 3/26/2006 |
| Weather | Sunny, 50s | Operator | Matt Stone | | Ground Elev. | 146.6 feet |
| | | Make | Komatsu | Model PC 27 | Time Started | 0800 |
| | | Capacity | 1.5 feet ³ | Reach 10 feet | Time Completed | 0830 |

| Depth | Soil Description | Sample No. | PID Reading (ppm) | Excav. Effort | Boulders: Count/Class | Note No. |
|-------|--|------------|-------------------|---------------|-----------------------|----------|
| 0 | Dark brown, fine to medium SAND, little Silt, little Organics. TOPSOIL | S-1 | ND | E | | 1 |
| 0.5' | Brown, fine to coarse SAND, little Gravel, trace Silt, trace Root Fibers. | S-2 | ND | E | | |
| 1' | | | ND | E | | |
| 2' | | | | E | | |
| 3' | SAND | S-3 | ND | E | | |
| 4' | Light brown to gray, fine SAND and Silt. | | | E | | |
| 5' | | | | E | | |
| 6' | SILTY SAND | | | E | | |
| 7' | Bottom of test pit at 7 feet below ground surface. No refusal encountered. | | | | | |
| 8' | | | | | | |
| 9' | | | | | | |
| 10' | | | | | | |
| 11' | | | | | | |
| 12' | | | | | | |
| 13' | | | | | | |

Notes:
1. Soil samples were screened for total volatile organic compounds (VOCS) using a TEI Model 580b organic vapor meter referenced to an isobutylene-in-air standard. Total VOCS detected are reported in parts per million (ppm) in the "Field Test Data" column. "ND" indicates no VOCS detected.

| <p>Test Pit Plan</p> | <p>Boulder Class</p> <table border="0"> <tr> <th>Letter Designation</th> <th>Size Range</th> <th>Classification</th> </tr> <tr> <td>A</td> <td>6" - 17"</td> <td></td> </tr> <tr> <td>B</td> <td>18" - 36"</td> <td></td> </tr> <tr> <td>C</td> <td>36" and Larger</td> <td></td> </tr> </table> | Letter Designation | Size Range | Classification | A | 6" - 17" | | B | 18" - 36" | | C | 36" and Larger | | <p>Proportions Used</p> <table border="0"> <tr> <td>TRACE (TR.)</td> <td>0 - 10%</td> </tr> <tr> <td>LITTLE (LI.)</td> <td>10 - 20%</td> </tr> <tr> <td>SOME (SO.)</td> <td>20 - 35%</td> </tr> <tr> <td>AND</td> <td>35 - 50%</td> </tr> </table> | TRACE (TR.) | 0 - 10% | LITTLE (LI.) | 10 - 20% | SOME (SO.) | 20 - 35% | AND | 35 - 50% | <p>Abbreviations</p> <p>F = Fine M = Medium C = Coarse V = Very F/M = Fine to medium F/C = Fine to coarse GR = Gray BN = Brown YEL = Yellow</p> | <p>GROUNDWATER</p> <p>() Encountered (X) Not Encountered</p> <table border="0"> <tr> <td>Elapsed Time to Reading (Hours)</td> <td>Depth to Groundwater</td> </tr> <tr> <td><input type="text"/></td> <td><input type="text"/></td> </tr> </table> | Elapsed Time to Reading (Hours) | Depth to Groundwater | <input type="text"/> | <input type="text"/> |
|--|---|--------------------|----------------|----------------|---|----------|--|---|-----------|--|---|----------------|--|---|-------------|---------|--------------|----------|------------|----------|-----|----------|--|---|---------------------------------|----------------------|----------------------|----------------------|
| | Letter Designation | Size Range | Classification | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 6" - 17" | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B | 18" - 36" | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | 36" and Larger | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TRACE (TR.) | 0 - 10% | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LITTLE (LI.) | 10 - 20% | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SOME (SO.) | 20 - 35% | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AND | 35 - 50% | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Elapsed Time to Reading (Hours) | Depth to Groundwater | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="text"/> | <input type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Excavation Effort</p> <p>E ---- Easy M --- Moderate D ---- Difficult</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



GZA GeoEnvironmental, Inc.

GZA GeoEnvironmental, Inc.

Engineers/Scientists

River Place

Hudson, New Hampshire

380 Harvey Road
Manchester, New Hampshire 03103

Test Pit No. TP-2

Page No. 1 of 1

File No. 04.0024050.01

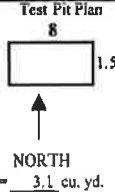
Checked By: RAB

Excavation Equipment

| | | |
|---------------------------|---|--------------------------------|
| GZA Rep. <u>C. Melby</u> | Contractor <u>New Hampshire Boring, Inc.</u> | Date <u>3/26/2006</u> |
| Weather <u>Sunny, 50s</u> | Operator <u>Matt Stone</u> | Ground Elev. <u>135.1 feet</u> |
| | Make <u>Komatsu</u> Model <u>PC 27</u> | Time Started <u>0840</u> |
| | Capacity <u>1.5 feet³</u> Reach <u>10 feet</u> | Time Completed <u>0900</u> |

| Depth | Soil Description | Sample No. | PID Reading (ppm) | Excav. Effort | Boulders: Count/Class | Note No. |
|-------|---|--|-------------------|---------------|-----------------------|----------|
| 0 | | | | | | |
| 0.3' | Dark brown Organics, little SAND and Silt. TOPSOIL. | S-1 | ND | E | | 1 |
| 1' | Light brown to gray, SILT and fine Sand. | S-2 | ND | E | | |
| 2' | SILTY SAND | | | E | | |
| 3' | | | | E | | |
| 4' | | | | E | | |
| 5' | | | | E | | |
| 6' | | | | E | | |
| 7' | | Bottom of test pit at 7 feet below ground surface. No refusal encountered. | | | | |
| 8' | | | | | | |
| 9' | | | | | | |
| 10' | | | | | | |
| 11' | | | | | | |
| 12' | | | | | | |
| 13' | | | | | | |

Notes:
1. Soil samples were screened for total volatile organic compounds (VOCS) using a TEI Model 580b organic vapor meter referenced to an isobutylene-in-air standard. Total VOCS detected are reported in parts per million (ppm) in the "Field Test Data" column. "ND" indicates no VOCS detected.

| <p>Test Pit Plan</p>  <p>Volume = 3.1 cu. yd.</p> | <p>Boulder Class</p> <table border="0"> <tr> <th>Letter Designation</th> <th>Size Range Classification</th> </tr> <tr> <td>A</td> <td>6" - 17"</td> </tr> <tr> <td>B</td> <td>18" - 36"</td> </tr> <tr> <td>C</td> <td>36" and Larger</td> </tr> </table> | Letter Designation | Size Range Classification | A | 6" - 17" | B | 18" - 36" | C | 36" and Larger | <p>Proportions Used</p> <table border="0"> <tr> <td>TRACE (TR.)</td> <td>0 - 10%</td> </tr> <tr> <td>LITTLE (LI.)</td> <td>10 - 20%</td> </tr> <tr> <td>SOME (SO.)</td> <td>20 - 35%</td> </tr> <tr> <td>AND</td> <td>35 - 50%</td> </tr> </table> | TRACE (TR.) | 0 - 10% | LITTLE (LI.) | 10 - 20% | SOME (SO.) | 20 - 35% | AND | 35 - 50% | <p>Abbreviations</p> <p>F = Fine M = Medium C = Coarse V = Very F/M = Fine to medium F/C = Fine to coarse GR = Gray BN = Brown YEL = Yellow</p> | <p>GROUNDWATER</p> <p>() Encountered (X) Not Encountered</p> <table border="0"> <tr> <td>Elapsed Time to Reading (Hours)</td> <td>Depth to Groundwater</td> </tr> <tr> <td><input type="text"/></td> <td><input type="text"/></td> </tr> </table> | Elapsed Time to Reading (Hours) | Depth to Groundwater | <input type="text"/> | <input type="text"/> |
|--|---|---------------------------|---------------------------|---|----------|---|-----------|---|----------------|--|-------------|---------|--------------|----------|------------|----------|-----|----------|---|--|---------------------------------|----------------------|----------------------|----------------------|
| | Letter Designation | Size Range Classification | | | | | | | | | | | | | | | | | | | | | | |
| A | 6" - 17" | | | | | | | | | | | | | | | | | | | | | | | |
| B | 18" - 36" | | | | | | | | | | | | | | | | | | | | | | | |
| C | 36" and Larger | | | | | | | | | | | | | | | | | | | | | | | |
| TRACE (TR.) | 0 - 10% | | | | | | | | | | | | | | | | | | | | | | | |
| LITTLE (LI.) | 10 - 20% | | | | | | | | | | | | | | | | | | | | | | | |
| SOME (SO.) | 20 - 35% | | | | | | | | | | | | | | | | | | | | | | | |
| AND | 35 - 50% | | | | | | | | | | | | | | | | | | | | | | | |
| Elapsed Time to Reading (Hours) | Depth to Groundwater | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="text"/> | <input type="text"/> | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Excavation Effort</p> <p>E ---- Easy M ---- Moderate D ---- Difficult</p> | | | | | | | | | | | | | | | | | | | | | | | | |



GZA GeoEnvironmental, Inc.

GZA GeoEnvironmental, Inc. Test Pit No. TP-3
 Engineers/Scientists _____ Page No. 1 of 1
River Place
Hudson, New Hampshire
 380 Harvey Road File No. 04.0024050.01
 Manchester, New Hampshire 03103 Checked By: RAB

GZA Rep. C. Melby Contractor New Hampshire Boring, Inc. Date 3/26/2006
 Operator Matt Stone Ground Elev. 138.5 feet
 Weather Sunny, 50s Make Komatsu Model PC 27 Time Started 0900
 Capacity 1.5 feet³ Reach 10 feet Time Completed 0930

| Depth | Soil Description | Sample No. | PID Reading (ppm) | Excav. Effort | Boulders: Count/Class | Note No. |
|-------|---|------------|-------------------|---------------|-----------------------|----------|
| 0 | | | | | | |
| 0.2' | Dark brown, fine to medium SAND, little Organics, little Silt. TOPSOIL | S-1 | ND | E | | 1 |
| 1' | Light brown to gray, fine to medium SAND, trace Silt, trace Gravel with Boulders. | S-2 | ND | E | 3/A | |
| 2' | | | | E | 2/A | |
| 3' | | | | E | 10/A | |
| 4' | | | | M | 5/A 2/C | |
| 5' | | | | M | 3/A | |
| 6' | | | | D | 2/C | |
| 7' | Bottom of test pit at 7 feet below ground surface. No refusal encountered | | | | | |
| 8' | | | | | | |
| 9' | | | | | | |
| 10' | | | | | | |
| 11' | | | | | | |
| 12' | | | | | | |
| 13' | | | | | | |

Notes:
 1. Soil samples were screened for total volatile organic compounds (VOCS) using a TEI Model 580b organic vapor meter referenced to an isobutylene-in-air standard. Total VOCS detected are reported in parts per million (ppm) in the "Field Test Data" column. "ND" indicates no VOCS detected.

| | | | | |
|---|---|--|---|---|
| Test Pit Plan NORTH Volume = <u>8.3</u> cu. yd. | Boulder Class Letter Designation Size Range Classification A 6" - 17" B 18" - 36" C 36" and Larger | Proportions Used TRACE (TR.) 0 - 10% LITTLE (LI.) 10 - 20% SOME (SO.) 20 - 35% AND 35 - 50% | Abbreviations F = Fine M = Medium C = Coarse V = Very F/M = Fine to medium F/C = Fine to coarse GR = Gray BN = Brown YEL = Yellow | GROUNDWATER () Encountered (X) Not Encountered Elapsed Time to Reading (Hours) Depth to Groundwater |
| | Excavation Effort E ---- Easy M ---- Moderate D ---- Difficult | | | |

GZA GeoEnvironmental, Inc. Test Pit No. TP-4
 Engineers/Scientists River Place Page No. 1 of 1
Hudson, New Hampshire File No. 04.0024050.01
 380 Harvey Road Checked By: RAB
 Manchester, New Hampshire 03103

Excavation Equipment

GZA Rep. C. Melby Contractor New Hampshire Boring, Inc. Date 3/27/2006
 Operator Matt Stone Ground Elev. 157.7 feet
 Weather Sunny, 50s Make Komatsu Model PC 27 Time Started 0935
 Capacity 1.5 feet³ Reach 10 feet Time Completed 1000

| Depth | Soil Description | Sample No. | PID Reading (ppm) | Excav. Effort | Boulders: Count/ Class | Note No. | |
|-------|--|------------|--|---------------|------------------------|----------|--|
| 0 | Dark brown, fine to medium SAND, little Silt, little Organics. Topsoil | S-1 | | E | | 1 | |
| 0.5' | Brown to light brown, GRAVEL and medium to coarse SAND, trace Silt. | | | | | | |
| 1' | GRAVEL and SAND | | ND | E | | | |
| 2' | | | | E | | | |
| 3' | | | | E | | | |
| 4' | | | | E | | | |
| 5' | | | | E | | | |
| 6' | | | | E | | | |
| 6.5' | | | | M | | | |
| 7' | | | Bottom of test pit at 6.5 feet below ground surface. No refusal encountered. | | | | |
| 8' | | | | | | | |
| 9' | | | | | | | |
| 10' | | | | | | | |
| 11' | | | | | | | |
| 12' | | | | | | | |
| 13' | | | | | | | |

Notes:
 1. Soil samples were screened for total volatile organic compounds (VOCS) using a TEI Model 580b organic vapor meter referenced to an isobutylene-in-air standard. Total VOCS detected are reported in parts per million (ppm) in the "Field Test Data" column. "ND" indicates no VOCS detected.

| | | | | |
|---|---|---|---|---|
| Test Pit Plan NORTH Volume = <u>5.8</u> cu. yd. | Boulder Class Letter Designation Size Range Classification A 6" - 17" B 18" - 36" C 36" and Larger | Proportions Used TRACE (TR.) 0 - 10% LITTLE (L.L.) 10 - 20% SOME (SO.) 20 - 35% AND 35 - 50% | Abbreviations F = Fine M = Medium C = Coarse V = Very F/M = Fine to medium F/C = Fine to coarse GR = Gray BN = Brown YEL = Yellow | GROUNDWATER () Encountered (X) Not Encountered Elapsed Time to Reading (Hours) Depth to Groundwater |
| | Excavation Effort E ---- Easy M --- Moderate D ---- Difficult | | | |

GZA GeoEnvironmental, Inc. Test Pit No. TP-5
 Engineers/Scientists Page No. 1 of 1
River Place
Hudson, New Hampshire
 380 Harvey Road File No. 04.0024050.01
 Manchester, New Hampshire 03103 Checked By: RAB

Excavation Equipment

GZA Rep. C. Melby Contractor New Hampshire Boring, Inc. Date 3/27/2006
 Operator Matt Stone Ground Elev. 136.7 feet
 Weather Sunny, 50s Make Komatsu Model PC 27 Time Started 1005
 Capacity 1.5 feet³ Reach 10 feet Time Completed 1030

| Depth | Soil Description | Sample No. | PID Reading (ppm) | Excav. Effort | Boulders: Count/Class | Note No. |
|---|---|------------|-------------------|---------------|-----------------------|----------|
| 0 | Brown, fine to coarse SAND, some Gravel, little Silt. | S-1 | ND | D | 5/A | 1 |
| 1' | SAND & GRAVEL | | | D | 10/A | |
| 2' | | | | D | | |
| 3' | | | | | | |
| Bottom of test pit at 2.5 feet below ground surface. Refusal encountered on probable Bedrock. | | | | | | |
| 4' | | | | | | |
| 5' | | | | | | |
| 6' | | | | | | |
| 7' | | | | | | |
| 8' | | | | | | |
| 9' | | | | | | |
| 10' | | | | | | |
| 11' | | | | | | |
| 12' | | | | | | |
| 13' | | | | | | |

Notes:
 1. Soil samples were screened for total volatile organic compounds (VOCS) using a TEI Model 580b organic vapor meter referenced to an isobutylene-in-air standard. Total VOCS detected are reported in parts per million (ppm) in the "Field Test Data" column. "ND" indicates no VOCS detected.

| | | | | |
|---|---|--|---|---|
| Test Pit Plan 8 NORTH Volume = 1.1 cu. yd. | Boulder Class Letter Designation Size Range Classification A 6" - 17" B 18" - 36" C 36" and Larger | Proportions Used TRACE (TR.) 0 - 10% LITTLE (LI.) 10 - 20% SOME (SO.) 20 - 35% AND 35 - 50% | Abbreviations F = Fine M = Medium C = Coarse V = Very F/M = Fine to medium F/C = Fine to coarse GR = Gray BN = Brown YEL = Yellow | GROUNDWATER () Encountered (X) Not Encountered Elapsed Time to Reading (Hours) Depth to Groundwater |
| | Excavation Effort E ---- Easy M ---- Moderate D ---- Difficult | | | |

GZA GeoEnvironmental, Inc. Test Pit No. TP-5A
 Engineers/Scientists _____ Page No. 1 of 1
River Place
Hudson, New Hampshire
 380 Harvey Road File No. 04.0024050.01
 Manchester, New Hampshire 03103 Checked By: RAB

Excavation Equipment

GZA Rep. C. Melby Contractor New Hampshire Boring, Inc. Date 3/27/2006
 Operator Matt Stone Ground Elev. -136.7 feet
 Weather Sunny, 50s Make Komatsu Model PC 27 Time Started 1005
 Capacity 1.5 feet³ Reach 10 feet Time Completed 1030

| Depth | Soil Description | Sample No. | PID Reading (ppm) | Excav. Effort | Boulders: Count/Class | Note No. |
|-------|---|------------|-------------------|---------------|-----------------------|----------|
| 0 | Gray, fine to coarse SAND, some Silt, little Gravel. | S-1 | ND | M | 5/A | 1 |
| 1' | SAND | | | D | 3/C | |
| 2' | | | | | | |
| 3' | Bottom of test pit at 2.5 feet below ground surface. Refusal encountered on probable Bedrock. | | | | | |
| 4' | | | | | | |
| 5' | | | | | | |
| 6' | | | | | | |
| 7' | | | | | | |
| 8' | | | | | | |
| 9' | | | | | | |
| 10' | | | | | | |
| 11' | | | | | | |
| 12' | | | | | | |
| 13' | | | | | | |

Notes:
 1. Soil samples were screened for total volatile organic compounds (VOCS) using a TEI Model 580b organic vapor meter referenced to an isobutylene-in-air standard. Total VOCS detected are reported in parts per million (ppm) in the "Field Test Data" column. "ND" indicates no VOCS detected.

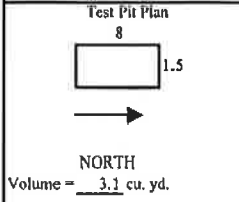
| | | | | |
|---|---|--|---|---|
| Test Pit Plan NORTH Volume = <u>1.1</u> cu. yd. | Boulder Class Letter Designation Size Range Classification A 6" - 17" B 18" - 36" C 36" and Larger | Proportions Used TRACE (TR.) 0 - 10% LITTLE (LI.) 10 - 20% SOME (SO.) 20 - 35% AND 35 - 50% | Abbreviations F = Fine M = Medium C = Coarse V = Very F/M = Fine to medium F/C = Fine to coarse GR = Gray BN = Brown YEL = Yellow | GROUNDWATER () Encountered (X) Not Encountered Elapsed Time to Reading (Hours) Depth to Groundwater |
| | Excavation Effort E ---- Easy M ---- Moderate D ---- Difficult | | | |

GZA GeoEnvironmental, Inc. Test Pit No. TP-6
 Engineers/Scientists _____ Page No. 1 of 1
River Place
Hudson, New Hampshire
 380 Harvey Road File No. 04.0024050.01
 Manchester, New Hampshire 03103 Checked By: RAB

| | | | | |
|---------------------------|--|--|----------------------|--------------------------------|
| GZA Rep. <u>C. Melby</u> | | Contractor <u>New Hampshire Boring, Inc.</u> | | Date <u>3/27/2006</u> |
| Weather <u>Sunny, 50s</u> | | Operator <u>Matt Stone</u> | | Ground Elev. <u>131.3 feet</u> |
| | | Make <u>Komatsu</u> | Model <u>PC 27</u> | Time Started <u>1030</u> |
| | | Capacity <u>1.5 feet³</u> | Reach <u>10 feet</u> | Time Completed <u>1100</u> |

| Depth | Soil Description | Sample No. | PID Reading (ppm) | Excav. Effort | Boulders: Count/Class | Note No. |
|-------|--|------------|-------------------|--|-----------------------|----------|
| 0' | Brown, fine to medium SAND, little Silt, little Organics. TOPSOIL | S-1 | ND | E | | 1 |
| 1' | | | | E | | |
| 2' | Gray, fine to medium SAND, some Silt. SILTY SAND | S-2 | ND | E | | |
| 3' | | | | E | | |
| 4' | | | | M | 1/B | |
| 5' | | | | E | 1/B | |
| 6' | | | | E | | |
| 7' | | | | Bottom of test pit at 7 feet below ground surface. No refusal encountered. | | |
| 8' | | | | | | |
| 9' | | | | | | |
| 10' | | | | | | |
| 11' | | | | | | |
| 12' | | | | | | |
| 13' | | | | | | |

Notes:
 1. Soil samples were screened for total volatile organic compounds (VOCS) using a TEI Model 580b organic vapor meter referenced to an isobutylene-in-air standard. Total VOCS detected are reported in parts per million (ppm) in the "Field Test Data" column. "ND" indicates no VOCS detected.

| Test Pit Plan  | <table border="0"> <tr> <th colspan="2">Boulder Class</th> </tr> <tr> <td>Letter Designation</td> <td>Size Range Classification</td> </tr> <tr> <td>A</td> <td>6" - 17"</td> </tr> <tr> <td>B</td> <td>18" - 36"</td> </tr> <tr> <td>C</td> <td>36" and Larger</td> </tr> <tr> <th colspan="2">Excavation Effort</th> </tr> <tr> <td>E</td> <td>Easy</td> </tr> <tr> <td>M</td> <td>Moderate</td> </tr> <tr> <td>D</td> <td>Difficult</td> </tr> </table> | Boulder Class | | Letter Designation | Size Range Classification | A | 6" - 17" | B | 18" - 36" | C | 36" and Larger | Excavation Effort | | E | Easy | M | Moderate | D | Difficult | <table border="0"> <tr> <th colspan="2">Proportions Used</th> </tr> <tr> <td>TRACE (TR.)</td> <td>0 - 10%</td> </tr> <tr> <td>LITTLE (L.)</td> <td>10 - 20%</td> </tr> <tr> <td>SOME (SO.)</td> <td>20 - 35%</td> </tr> <tr> <td>AND</td> <td>35 - 50%</td> </tr> </table> | Proportions Used | | TRACE (TR.) | 0 - 10% | LITTLE (L.) | 10 - 20% | SOME (SO.) | 20 - 35% | AND | 35 - 50% | <table border="0"> <tr> <th colspan="2">Abbreviations</th> </tr> <tr> <td>F</td> <td>Fine</td> </tr> <tr> <td>M</td> <td>Medium</td> </tr> <tr> <td>C</td> <td>Coarse</td> </tr> <tr> <td>V</td> <td>Very</td> </tr> <tr> <td>F/M</td> <td>Fine to medium</td> </tr> <tr> <td>F/C</td> <td>Fine to coarse</td> </tr> <tr> <td>GR</td> <td>Gray</td> </tr> <tr> <td>BN</td> <td>Brown</td> </tr> <tr> <td>YEL</td> <td>Yellow</td> </tr> </table> | Abbreviations | | F | Fine | M | Medium | C | Coarse | V | Very | F/M | Fine to medium | F/C | Fine to coarse | GR | Gray | BN | Brown | YEL | Yellow | <table border="0"> <tr> <th colspan="2">GROUNDWATER</th> </tr> <tr> <td>(X)</td> <td>Encountered</td> </tr> <tr> <td>()</td> <td>Not Encountered</td> </tr> <tr> <td colspan="2">Elapsed Time to Reading (Hours)</td> </tr> <tr> <td style="border: 1px solid black; width: 50px;">5 minutes</td> <td style="border: 1px solid black; width: 50px;">7 feet</td> </tr> <tr> <td colspan="2">Depth to Groundwater</td> </tr> </table> | GROUNDWATER | | (X) | Encountered | () | Not Encountered | Elapsed Time to Reading (Hours) | | 5 minutes | 7 feet | Depth to Groundwater | |
|---|---|---------------|--|--------------------|---------------------------|---|----------|---|-----------|---|----------------|-------------------|--|---|------|---|----------|---|-----------|--|------------------|--|-------------|---------|-------------|----------|------------|----------|-----|----------|--|---------------|--|---|------|---|--------|---|--------|---|------|-----|----------------|-----|----------------|----|------|----|-------|-----|--------|--|-------------|--|-------|-------------|-----|-----------------|---------------------------------|--|-----------|--------|----------------------|--|
| Boulder Class | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Letter Designation | Size Range Classification | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 6" - 17" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B | 18" - 36" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | 36" and Larger | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Excavation Effort | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E | Easy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M | Moderate | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D | Difficult | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Proportions Used | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TRACE (TR.) | 0 - 10% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LITTLE (L.) | 10 - 20% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SOME (SO.) | 20 - 35% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AND | 35 - 50% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Abbreviations | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F | Fine | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M | Medium | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | Coarse | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| V | Very | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F/M | Fine to medium | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F/C | Fine to coarse | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GR | Gray | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BN | Brown | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| YEL | Yellow | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GROUNDWATER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (X) | Encountered | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| () | Not Encountered | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Elapsed Time to Reading (Hours) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 minutes | 7 feet | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Depth to Groundwater | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

GZA GeoEnvironmental, Inc. Test Pit No. TP-7
 Engineers/Scientists Page No. 1 of 1
River Place
Hudson, New Hampshire
 380 Harvey Road File No. 04.0024050.01
 Manchester, New Hampshire 03103 Checked By: RAB

Excavation Equipment

GZA Rep. C. Melby Contractor New Hampshire Boring, Inc. Date 3/27/2006
 Operator Matt Stone Ground Elev. 138.5 feet
 Weather Sunny, 50s Make Komatsu Model PC 27 Time Started 1110
 Capacity 1.5 feet³ Reach 10 feet Time Completed 1140

| Depth | Soil Description | Sample No. | PID Reading (ppm) | Excav. Effort | Boulders: Count/Class | Note No. |
|-------|---|------------|-------------------|---------------|-----------------------|----------|
| 0 | Dark brown, fine to medium SAND, little Silt, little Organics. TOPSOIL | S-1 | ND | E | | 1 |
| 0.5' | | | | | | |
| 1' | Light brown to gray, fine SAND, little Silt. SILTY SAND | S-2 | ND | E | | |
| 2' | | | | | | |
| 3' | | | | | | |
| 4' | | | | | | |
| 5' | | | | | | |
| 6' | | | | | | |
| 7' | Bottom of test pit at 7 feet below ground surface. No refusal encountered. | | | | | |
| 8' | | | | | | |
| 9' | | | | | | |
| 10' | | | | | | |
| 11' | | | | | | |
| 12' | | | | | | |
| 13' | | | | | | |

Notes:
 1. Soil samples were screened for total volatile organic compounds (VOCS) using a TEI Model 580b organic vapor meter referenced to an isobutylene-in-air standard. Total VOCS detected are reported in parts per million (ppm) in the "Field Test Data" column. "ND" indicates no VOCS detected.

| | | | | |
|---|---|--|---|---|
| Test Pit Plan NORTH Volume = <u>3.1</u> cu. yd. | Boulder Class Letter Designation Size Range Classification A 6" - 17" B 18" - 36" C 36" and Larger | Proportions Used TRACE (TR.) 0 - 10% LITTLE (LI.) 10 - 20% SOME (SO.) 20 - 35% AND 35 - 50% | Abbreviations F = Fine M = Medium C = Coarse V = Very F/M = Fine to medium F/C = Fine to coarse GR = Gray BN = Brown YEL = Yellow | GROUNDWATER () Encountered (X) Not Encountered Elapsed Time to Reading (Hours) Depth to Groundwater |
| | Excavation Effort E ---- Easy M --- Moderate D ---- Difficult | | | |

GZA GeoEnvironmental, Inc. Test Pit No. TP-8
 Engineers/Scientists Page No. 1 of 1
River Place
Hudson, New Hampshire
 380 Harvey Road File No. 04.0024050.01
 Manchester, New Hampshire 03103 Checked By: RAB

GZA Rep. C. Melby Contractor New Hampshire Boring, Inc. Date 3/27/2006
 Weather Sunny, 50s Operator Matt Stone Ground Elev. 119.1 feet
 Excavation Equipment
 Make Komatsu Model PC 27 Time Started 1240
 Capacity 1.5 feet³ Reach 10 feet Time Completed 1305

| Depth | Soil Description | Sample No. | PID Reading (ppm) | Excav. Effort | Boulders: Count/Class | Note No. |
|-------|--|------------|-------------------|---------------|-----------------------|----------|
| 0 | Dark brown, fine to medium SAND, some Silt, little Organics. TOPSOIL | S-1 | ND | E | | 1 |
| 0.5' | Light brown, silt, some, fine Sand, trace Root Fibers. SUBSOIL | | | | | |
| 1' | SILTY SAND | S-2 | ND | E | | |
| 2' | | | | | | |
| 3' | | | | | | |
| 4' | | | | | | |
| 5' | | | | | | |
| 6' | | | | | | |
| 7' | | | | | | |
| 8' | Bottom of test pit at 7 feet below ground surface. No refusal encountered. | | | | | |
| 9' | | | | | | |
| 10' | | | | | | |
| 11' | | | | | | |
| 12' | | | | | | |
| 13' | | | | | | |

Notes:
 1. Soil samples were screened for total volatile organic compounds (VOCS) using a TEI Model 580b organic vapor meter referenced to an isobutylene-in-air standard. Total VOCS detected are reported in parts per million (ppm) in the "Field Test Data" column. "ND" indicates no VOCS detected.

| | | | | |
|--|---|--|---|---|
| Test Pit Plan Volume = <u>1.1</u> cu. yd. | Boulder Class Letter Designation Size Range Classification A 6" - 17" B 18" - 36" C 36" and Larger | Proportions Used TRACE (TR.) 0 - 10% LITTLE (LI.) 10 - 20% SOME (SO.) 20 - 35% AND 35 - 50% | Abbreviations F = Fine M = Medium C = Coarse V = Very F/M = Fine to medium F/C = Fine to coarse GR = Gray BN = Brown YEL = Yellow | GROUNDWATER () Encountered (X) Not Encountered Elapsed Time to Reading (Hours) Depth to Groundwater |
| | Excavation Effort E ---- Easy M ---- Moderate D ---- Difficult | | | |

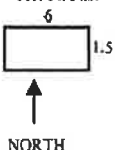
GZA GeoEnvironmental, Inc. Test Pit No. TP-9
 Engineers/Scientists _____ River Place
Hudson, New Hampshire
 380 Harvey Road
 Manchester, New Hampshire 03103 Page No. 1 of 1
File No. 04.0024050.01
Checked By: RAB

Excavation Equipment

GZA Rep. C. Melby Contractor New Hampshire Boring, Inc. Date 3/27/2006
 Operator Matt Stone Ground Elev. 137.2 feet
 Weather Sunny, 50s Make Komatsu Model PC 27 Time Started 1310
 Capacity 1.5 feet³ Reach 10 feet Time Completed 1340

| Depth | Soil Description | Sample No. | PID Reading (ppm) | Excav. Effort | Boulders: Count/ Class | Note No. |
|-------|---|------------|-------------------|---------------|------------------------|----------|
| 0 | Dark brown, fine to medium SAND, little Organics, little Silt. TOPSOIL | S-1 | ND | E | | 1 |
| 0.7' | | | | | | |
| 1' | Light brown, fine SAND and Silt, trace Gravel. SILTY SAND | S-2 | ND | E | | |
| 2' | | | | | | |
| 3' | | | | | | |
| 4' | | | | | | |
| 5' | | | | | | |
| 6' | | | | | | |
| 7' | | | | | | |
| 8' | Bottom of test pit at 7 feet below ground surface. No refusal encountered. | | | | | |
| 9' | | | | | | |
| 10' | | | | | | |
| 11' | | | | | | |
| 12' | | | | | | |
| 13' | | | | | | |

Notes:
 1. Soil samples were screened for total volatile organic compounds (VOCS) using a TEI Model 580b organic vapor meter referenced to an isobutylene-in-air standard. Total VOCS detected are reported in parts per million (ppm) in the "Field Test Data" column. "ND" indicates no VOCS detected.

| | | | | |
|---|---|---|---|---|
| Test Pit Plan  Volume = <u>2.3</u> cu. yd. | Boulder Class Letter Designation Size Range Classification A 6" - 17" B 18" - 36" C 36" and Larger | Proportions Used TRACE (TR.) 0 - 10% LITTLE (LI.) 10 - 20% SOME (SO.) 20 - 35% AND 35 - 50% | Abbreviations F = Fine M = Medium C = Coarse V = Very F/M = Fine to medium F/C = Fine to coarse GR = Gray BN = Brown YEL = Yellow | GROUNDWATER () Encountered (X) Not Encountered Elapsed Time to Reading (Hours) Depth to Groundwater |
| | Excavation Effort E ---- Easy M ---- Moderate D ---- Difficult | | | |

GZA GeoEnvironmental, Inc.

Engineers/Scientists

River Place

Hudson, New Hampshire

380 Harvey Road
Manchester, New Hampshire 03103

Test Pit No. TP-10

Page No. 1 of 1

File No. 04.0024050.01

Checked By: RAB

Excavation Equipment

GZA Rep. C. Melby

Contractor New Hampshire Boring, Inc.

Date 3/27/2006

Operator Matt Stone

Ground Elev. 119.0 feet

Weather Sunny, 50s

Make Komatsu Model PC 27

Time Started 1345

Capacity 1.5 feet³ Reach 10 feet

Time Completed 1405

| Depth | Soil Description | Sample No. | PID Reading (ppm) | Excav. Effort | Boulders: Count/Class | Note No. |
|-------|--|------------|-------------------|---------------|-----------------------|----------|
| 0 | Dark brown, fine to medium SAND, some Silt, little Organics. TOPSOIL | S-1 | ND | E | | 1 |
| 1' | Light brown, SILT, some fine Sand. SUBSOIL | S-2 | ND | E | | |
| 2' | | | | E | | |
| 3' | | | | E | | |
| 4' | | | | E | | |
| 5' | | | | E | | |
| 6' | SILTY SAND | | | E | | |
| 7' | Bottom of test pit at 7 feet below ground surface. No refusal encountered. | | | | | |
| 8' | | | | | | |
| 9' | | | | | | |
| 10' | | | | | | |
| 11' | | | | | | |
| 12' | | | | | | |
| 13' | | | | | | |

Notes:
 1. Soil samples were screened for total volatile organic compounds (VOCS) using a TEI Model 580b organic vapor meter referenced to an isobutylene-in-air standard. Total VOCS detected are reported in parts per million (ppm) in the "Field Test Data" column. "ND" indicates no VOCS detected.

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--------------------|---------------------------|---|----------|---|-----------|---|----------------|--------|------|--------|----------|--------|-----------|--|-------------|---------|--------------|----------|------------|----------|-----|----------|---|---|---------------------------------|----------------------|----------------------|----------------------|
| <p>Test Pit Plan 7</p> <p>NORTH Volume = 2.7 cu. yd.</p> | <p>Boulder Class</p> <table border="0"> <tr> <td>Letter Designation</td> <td>Size Range Classification</td> </tr> <tr> <td>A</td> <td>6" - 17"</td> </tr> <tr> <td>B</td> <td>18" - 36"</td> </tr> <tr> <td>C</td> <td>36" and Larger</td> </tr> </table> <p>Excavation Effort</p> <table border="0"> <tr> <td>E ----</td> <td>Easy</td> </tr> <tr> <td>M ----</td> <td>Moderate</td> </tr> <tr> <td>D ----</td> <td>Difficult</td> </tr> </table> | Letter Designation | Size Range Classification | A | 6" - 17" | B | 18" - 36" | C | 36" and Larger | E ---- | Easy | M ---- | Moderate | D ---- | Difficult | <p>Proportions Used</p> <table border="0"> <tr> <td>TRACE (TR.)</td> <td>0 - 10%</td> </tr> <tr> <td>LITTLE (LI.)</td> <td>10 - 20%</td> </tr> <tr> <td>SOME (SO.)</td> <td>20 - 35%</td> </tr> <tr> <td>AND</td> <td>35 - 50%</td> </tr> </table> | TRACE (TR.) | 0 - 10% | LITTLE (LI.) | 10 - 20% | SOME (SO.) | 20 - 35% | AND | 35 - 50% | <p>Abbreviations</p> <p>F = Fine M = Medium C = Coarse V = Very F/M = Fine to medium F/C = Fine to coarse GR = Gray BN = Brown YEL = Yellow</p> | <p>GROUNDWATER</p> <p>() Encountered (X) Not Encountered</p> <table border="0"> <tr> <td>Elapsed Time to Reading (Hours)</td> <td>Depth to Groundwater</td> </tr> <tr> <td><input type="text"/></td> <td><input type="text"/></td> </tr> </table> | Elapsed Time to Reading (Hours) | Depth to Groundwater | <input type="text"/> | <input type="text"/> |
| Letter Designation | Size Range Classification | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 6" - 17" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B | 18" - 36" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | 36" and Larger | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E ---- | Easy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M ---- | Moderate | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D ---- | Difficult | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TRACE (TR.) | 0 - 10% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LITTLE (LI.) | 10 - 20% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SOME (SO.) | 20 - 35% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AND | 35 - 50% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Elapsed Time to Reading (Hours) | Depth to Groundwater | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="text"/> | <input type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



GZA GeoEnvironmental, Inc.

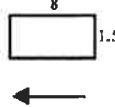
GZA GeoEnvironmental, Inc. Test Pit No. TP-11
 Engineers/Scientists Page No. 1 of 1
River Place
Hudson, New Hampshire
 380 Harvey Road File No. 04.0024050.01
 Manchester, New Hampshire 03103 Checked By: RAB

Excavation Equipment

GZA Rep. C. Melby Contractor New Hampshire Boring, Inc. Date 3/27/2006
 Operator Matt Stone Ground Elev. 109.6 feet
 Weather Sunny, 50s Make Komatsu Model PC 27 Time Started 1405
 Capacity 1.5 feet³ Reach 10 feet Time Completed 1435

| Depth | Soil Description | Sample No. | PID Reading (ppm) | Excav. Effort | Boulders: Count/Class | Note No. |
|-------|--|------------|-------------------|---------------|-----------------------|----------|
| 0 | Dark brown, fine to medium SAND, some Organics, some Silt. TOPSOIL | S-1 | ND | M | | 1 |
| 1' | Light brown, SILT, little fine Sand. | | | M | | |
| 1.5' | | S-2 | ND | M | | |
| 2' | | | M | | | |
| 3' | | | M | | | |
| 4' | | | M | | | |
| 5' | | | M | | | |
| 6' | SILT | | | M | | |
| 7' | Bottom of test pit at 7 feet below ground surface. No refusal encountered. | | | | | |
| 8' | | | | | | |
| 9' | | | | | | |
| 10' | | | | | | |
| 11' | | | | | | |
| 12' | | | | | | |
| 13' | | | | | | |

Notes:
 1. Soil samples were screened for total volatile organic compounds (VOCS) using a TEI Model 580b organic vapor meter referenced to an isobutylene-in-air standard. Total VOCS detected are reported in parts per million (ppm) in the "Field Test Data" column. "ND" indicates no VOCS detected.

| | | | | |
|--|---|---|---|---|
| Test Pit Plan  NORTH Volume = <u>3.1</u> cu. yd. | Boulder Class Letter Designation Size Range Classification A 6" - 17" B 18" - 36" C 36" and Larger | Proportions Used TRACE (TR.) 0 - 10% LITTLE (LI.) 10 - 20% SOME (SO.) 20 - 35% AND 35 - 50% | Abbreviations F = Fine M = Medium C = Coarse V = Very F/M = Fine to medium F/C = Fine to coarse GR = Gray BN = Brown YEL = Yellow | GROUNDWATER () Encountered (X) Not Encountered Elapsed Time to Reading (Hours) Depth to Groundwater |
| | Excavation Effort E ---- Easy M --- Moderate D ---- Difficult | | | |

GZA GeoEnvironmental, Inc. Test Pit No. TP-12
 Engineers/Scientists _____ Page No. 1 of 1
River Place
Hudson, New Hampshire
 380 Harvey Road File No. 04.0024050.01
 Manchester, New Hampshire 03103 Checked By: RAB

Excavation Equipment

GZA Rep. C. Melby Contractor New Hampshire Boring, Inc. Date 3/27/2006
 Operator Matt Stone Ground Elev. 134.1 feet
 Weather Sunny, 50s Make Komatsu Model PC 27 Time Started 1440
 Capacity 1.5 feet³ Reach 10 feet Time Completed 1505

| Depth | Soil Description | Sample No. | PID Reading (ppm) | Excav. Effort | Boulders: Count/Class | Note No. |
|-------|--|------------|-------------------|---------------|-----------------------|----------|
| 0 | Dark brown, fine to medium SAND, little Silt, little Organics. TOPSOIL | S-1 | ND | | | 1 |
| 0.5' | Light brown, SILT, little, fine Sand. | S-2 | ND | | | |
| 1' | | | | | | |
| 2' | | S-3 | ND | | | |
| 3' | | | | | | |
| 4' | SILT | | | | | |
| 4.5' | Light gray, fine to medium SAND, little Silt. | | | | | |
| 5' | | | | | | |
| 6' | SAND | | | | | |
| 7' | Bottom of test pit at 7 feet below ground surface. No refusal encountered. | | | | | |
| 8' | | | | | | |
| 9' | | | | | | |
| 10' | | | | | | |
| 11' | | | | | | |
| 12' | | | | | | |
| 13' | | | | | | |

Notes:
 1. Soil samples were screened for total volatile organic compounds (VOCS) using a TEI Model 580b organic vapor meter referenced to an isobutylenc-in-air standard. Total VOCS detected are reported in parts per million (ppm) in the "Field Test Data" column. "ND" indicates no VOCS detected.

| | | | | | |
|-------------------|--|---|---|--|--|
| Test Pit Plan | Letter Designation A B C | Boulder Class Size Range Classification 6" - 17" 18" - 36" 36" and Larger | Proportions Used TRACE (TR.) 0 - 10% LITTLE (LI.) 10 - 20% SOME (SO.) 20 - 35% AND 35 - 50% | Abbreviations F = Fine M = Medium C = Coarse V = Very F/M = Fine to medium F/C = Fine to coarse GR = Gray BN = Brown YEL = Yellow | GROUNDWATER () Encountered (X) Not Encountered Elapsed Time to Reading (Hours) _____ Depth to Groundwater _____ |
| | Excavation Effort E ---- Easy M --- Moderate D ---- Difficult | | | | |

GZA GeoEnvironmental, Inc. Test Pit No. TP-13
 Engineers/Scientists Page No. 1 of 1
River Place
Hudson, New Hampshire
 380 Harvey Road File No. 04.0024050.01
 Manchester, New Hampshire 03103 Checked By: RAB

Excavation Equipment

GZA Rep. C. Melby Contractor New Hampshire Boring, Inc. Date 3/27/2006
 Operator Matt Stone Ground Elev. 139.9 feet
 Weather Sunny, 50s Make Komatsu Model PC 27 Time Started 1510
 Capacity 1.5 feet³ Reach 10 feet Time Completed 1525

| Depth | Soil Description | Sample No. | PID Reading (ppm) | Excav. Effort | Boulders: Count/Class | Note No. |
|-------|--|------------|-------------------|---------------|-----------------------|----------|
| 0 | Dark brown, fine to medium SAND, some Silt, little Organics. TOPSOIL | S-1 | ND | E | | 1 |
| 0.4' | Light brown, fine to medium SAND and SILT. | S-2 | ND | E | | |
| 1' | SILTY SAND | | | | | |
| 1.5' | Brown, medium to coarse SAND, trace Silt. | S-3 | ND | E | | |
| 2' | | | | E | | |
| 3' | | | | E | | |
| 4' | | | | E | | |
| 5' | | | | E | | |
| 6' | SAND | | | E | | |
| 7' | Bottom of test pit at 6.5 feet below ground surface. No refusal encountered. | | | | | |
| 8' | | | | | | |
| 9' | | | | | | |
| 10' | | | | | | |
| 11' | | | | | | |
| 12' | | | | | | |
| 13' | | | | | | |

Notes:
 1. Soil samples were screened for total volatile organic compounds (VOCS) using a TEI Model 580b organic vapor meter referenced to an isobutylene-in-air standard. Total VOCS detected are reported in parts per million (ppm) in the "Field Test Data" column. "ND" indicates no VOCS detected.

| | | | | |
|-------------------|---|---|---|---|
| Test Pit Plan | Boulder Class Letter Designation Size Range Classification A 6" - 17" B 18" - 36" C 36" and Larger | Proportions Used TRACE (TR.) 0 - 10% LITTLE (LI.) 10 - 20% SOME (SO.) 20 - 35% AND 35 - 50% | Abbreviations F = Fine M = Medium C = Coarse V = Very F/M = Fine to medium F/C = Fine to coarse GR = Gray BN = Brown YEL = Yellow | GROUNDWATER () Encountered (X) Not Encountered Elapsed Time to Reading (Hours) Depth to Groundwater |
| | Excavation Effort E ---- Easy M ---- Moderate D ---- Difficult | | | |

| | | | |
|---------------------------------|-----------------------|--------------|---------------|
| GZA GeoEnvironmental, Inc. | River Place | Test Pit No. | TP-14 |
| Engineers/Scientists | Hudson, New Hampshire | Page No. | 1 of 1 |
| 380 Harvey Road | | File No. | 04.0024050.01 |
| Manchester, New Hampshire 03103 | | Checked By: | RAB |

| | | | | | |
|----------|------------|------------|-------------------------------------|----------------|------------|
| GZA Rep. | C. Melby | Contractor | New Hampshire Boring, Inc. | Date | 3/27/2006 |
| Weather | Sunny, 50s | Operator | Matt Stone | Ground Elev. | 138.1 feet |
| | | Make | Komatsu Model PC 27 | Time Started | 1530 |
| | | Capacity | 1.5 feet ³ Reach 10 feet | Time Completed | 1400 |

| Depth | Soil Description | Sample No. | PID Reading (ppm) | Excav. Effort | Boulders: Count/ Class | Note No. |
|-------|--|------------|-------------------|---------------|------------------------|----------|
| 0 | | | | | | |
| 0.3' | Dark brown, fine to medium SAND, some Silt, little Gravel. TOPSOIL. | 0.3' S-1 | ND | E | | 1 |
| 1' | Orange brown, fine to medium SAND and SILT. | S-2 | ND | E | | |
| 1.5' | SILTY SAND | | | | | |
| 2' | Gray, fine to medium SAND, little Silt. | S-3 | ND | E | | |
| 3' | | | | E | | |
| 4' | | | | E | | |
| 5' | SAND | | | E | | |
| 6' | Bottom of test pit at 6 feet below ground surface. No refusal encountered. | | | | | |
| 7' | | | | | | |
| 8' | | | | | | |
| 9' | | | | | | |
| 10' | | | | | | |
| 11' | | | | | | |
| 12' | | | | | | |
| 13' | | | | | | |

Notes:
 1. Soil samples were screened for total volatile organic compounds (VOCS) using a TEI Model 580b organic vapor meter referenced to an isobutylene-in-air standard. Total VOCS detected are reported in parts per million (ppm) in the "Field Test Data" column. "ND" indicates no VOCS detected.

| Test Pit Plan NORTH Volume = 2.6 cu. yd. | Boulder Class <table border="1"> <tr> <th>Letter Designation</th> <th>Size Range Classification</th> </tr> <tr> <td>A</td> <td>6" - 17"</td> </tr> <tr> <td>B</td> <td>18" - 36"</td> </tr> <tr> <td>C</td> <td>36" and Larger</td> </tr> </table> Excavation Effort <table border="1"> <tr> <td>E ----</td> <td>Easy</td> </tr> <tr> <td>M ----</td> <td>Moderate</td> </tr> <tr> <td>D ----</td> <td>Difficult</td> </tr> </table> | Letter Designation | Size Range Classification | A | 6" - 17" | B | 18" - 36" | C | 36" and Larger | E ---- | Easy | M ---- | Moderate | D ---- | Difficult | Proportions Used <table border="1"> <tr> <td>TRACE (TR.)</td> <td>0 - 10%</td> </tr> <tr> <td>LITTLE (L1.)</td> <td>10 - 20%</td> </tr> <tr> <td>SOME (SO.)</td> <td>20 - 35%</td> </tr> <tr> <td>AND</td> <td>35 - 50%</td> </tr> </table> | TRACE (TR.) | 0 - 10% | LITTLE (L1.) | 10 - 20% | SOME (SO.) | 20 - 35% | AND | 35 - 50% | Abbreviations F = Fine M = Medium C = Coarse V = Very F/M = Fine to medium F/C = Fine to coarse GR = Gray BN = Brown YEL = Yellow | GROUNDWATER () Encountered (X) Not Encountered <table border="1"> <tr> <td>Elapsed Time to Reading (Hours)</td> <td>Depth to Groundwater</td> </tr> <tr> <td> </td> <td> </td> </tr> </table> | Elapsed Time to Reading (Hours) | Depth to Groundwater | | |
|---|---|--------------------|---------------------------|---|----------|---|-----------|---|----------------|--------|------|--------|----------|--------|-----------|---|-------------|---------|--------------|----------|------------|----------|-----|----------|---|--|---------------------------------|----------------------|--|--|
| Letter Designation | Size Range Classification | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 6" - 17" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B | 18" - 36" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | 36" and Larger | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E ---- | Easy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M ---- | Moderate | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D ---- | Difficult | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TRACE (TR.) | 0 - 10% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LITTLE (L1.) | 10 - 20% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SOME (SO.) | 20 - 35% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AND | 35 - 50% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Elapsed Time to Reading (Hours) | Depth to Groundwater | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



GZA GeoEnvironmental, Inc.

Engineers/Scientists

River Place

Hudson, New Hampshire

380 Harvey Road
Manchester, New Hampshire 03103

Test Pit No. TP-15

Page No. 1 of 1

File No. 04.0024050.01

Checked By: RAB

| | | | | | | |
|----------|------------|------------|----------------------------|---------------|----------------|-----------|
| GZA Rep. | C. Melby | Contractor | New Hampshire Boring, Inc. | | Date | 3/28/2006 |
| Weather | Sunny, 50s | Operator | Matt Stone | | Ground Elev. | ~150 feet |
| | | Make | Komatsu | Model PC 27 | Time Started | 0715 |
| | | Capacity | 1.5 feet ³ | Reach 10 feet | Time Completed | 0735 |

| Depth | Soil Description | Sample No. | PID Reading (ppm) | Excav. Effort | Boulders: Count/Class | Note No. |
|-------|--|------------|-------------------|---------------|-----------------------|----------|
| 0 | Dark brown, fine to medium SAND, some Silt, little Organics. Topsoil | S-1 | ND | E | | 1 |
| 1' | Light brown, fine SAND and Silt | S-2 | ND | E | | |
| 2' | SILTY SAND | | | E | | |
| 3' | | | | E | | |
| 4' | | | | | E | |
| 4.3' | Gray, fine to medium SAND, some SILT. | S-3 | ND | E | | |
| 5' | SAND | | | E | | |
| 6' | | | | E | | |
| 7' | | | | | E | |
| 7' | Bottom of test pit at 6.5 feet below ground surface. No refusal encountered. | | | | | |
| 8' | | | | | | |
| 9' | | | | | | |
| 10' | | | | | | |
| 11' | | | | | | |
| 12' | | | | | | |
| 13' | | | | | | |

Notes:
 1. Soil samples were screened for total volatile organic compounds (VOCS) using a TEI Model 580b organic vapor meter referenced to an isobutylene-in-air standard. Total VOCS detected are reported in parts per million (ppm) in the "Field Test Data" column. "ND" indicates no VOCS detected.

| | | | | |
|---|--|---|--|--|
| Test Pit Plan 8 NORTH Volume = 2.8 cu. yd. | Boulder Class Letter Designation Size Range Classification A 6" - 17" B 18" - 36" C 36" and Larger | Proportions Used TRACE (TR.) 0 - 10% LITTLE (LI.) 10 - 20% SOME (SO.) 20 - 35% AND 35 - 50% | Abbreviations F = Fine M = Medium C = Coarse V = Very F/M = Fine to medium F/C = Fine to coarse GR = Gray BN = Brown VEL = Yellow | GROUNDWATER () Encountered (X) Not Encountered Elapsed Time to Reading (Hours) Depth to Groundwater |
| | | Excavation Effort E ---- Easy M ---- Moderate D ---- Difficult | | |



GZA GeoEnvironmental, Inc.

GZA GeoEnvironmental, Inc.

Engineers/Scientists

River Place

Hudson, New Hampshire

380 Harvey Road
Manchester, New Hampshire 03103

Test Pit No. TP-16

Page No. 1 of 1

File No. 04.0024050.01

Checked By: RAB

Excavation Equipment

GZA Rep. C. Melby

Contractor New Hampshire Boring, Inc.

Date 3/28/2006

Operator Malt Stone

Ground Elev. 142.5 feet

Weather Sunny, 50s

Make Komatsu Model PC 27

Time Started 0735

Capacity 1.5 feet³ Reach 10 feet

Time Completed 0800

| Depth | Soil Description | Sample No. | PID Reading (ppm) | Excav. Effort | Boulders: Count/Class | Note No. |
|-------|--|------------|-------------------|---------------|-----------------------|----------|
| 0 | Dark brown, fine to medium SAND, some Silt, little Organics. TOPSOIL | S-1 | ND | E | | 1, 2 |
| 0.8' | | | | | | |
| 1' | Light brown, fine SAND and SILT. | S-2 | ND | E | | |
| | SILTY SAND | | | | | |
| 2' | | | | | | |
| 2.2' | | | | E | | |
| 3' | Light brown, fine to medium SAND, little Silt. | | | E | | |
| 4' | | | | E | | |
| 5' | | S-3 | ND | E | | |
| 6' | | | | E | | |
| 7' | Bottom of test pit at 7 feet below ground surface. No refusal encountered. | | | E | | |
| 8' | | | | | | |
| 9' | | | | | | |
| 10' | | | | | | |
| 11' | | | | | | |
| 12' | | | | | | |
| 13' | | | | | | |

- Notes:
1. Frost encountered.
 2. Soil samples were screened for total volatile organic compounds (VOCS) using a TEI Model 580b organic vapor meter referenced to an isobutylene-in-air standard. Total VOCS detected are reported in parts per million (ppm) in the "Field Test Data" column. "ND" indicates no VOCS detected.

| | | | | |
|--|---|--|---|--|
| <p>Test Pit Plan</p> <p>VOLUME = 3.1 cu. yd.</p> | <p>Boulder Class</p> <p>Letter Designation Size Range Classification</p> <p>A 6" - 17"</p> <p>B 18" - 36"</p> <p>C 36" and Larger</p> | <p>Proportions Used</p> <p>TRACE (TR.) 0 - 10%</p> <p>LITTLE (LI.) 10 - 20%</p> <p>SOME (SO.) 20 - 35%</p> <p>AND 35 - 50%</p> | <p>Abbreviations</p> <p>F = Fine</p> <p>M = Medium</p> <p>C = Coarse</p> <p>V = Very</p> <p>F/M = Fine to medium</p> <p>F/C = Fine to coarse</p> <p>GR = Gray</p> <p>BN = Brown</p> <p>YEL = Yellow</p> | <p>GROUNDWATER</p> <p>() Encountered</p> <p>(X) Not Encountered</p> |
| | <p>Excavation Effort</p> <p>E ---- Easy</p> <p>M ---- Moderate</p> <p>D ---- Difficult</p> | <p>Elapsed Time to Reading (Hours)</p> | <p>Depth to Groundwater</p> | |



GZA GeoEnvironmental, Inc.

GZA GeoEnvironmental, Inc.

Engineers/Scientists

River Place

Hudson, New Hampshire

380 Harvey Road
Manchester, New Hampshire 03103

Test Pit No. TP-17

Page No. 1 of 1

File No. 04.0024050.01

Checked By: RAB

Excavation Equipment

| | | |
|---------------------------|---|--------------------------------|
| GZA Rep. <u>C. Melby</u> | Contractor <u>New Hampshire Boring, Inc.</u> | Date <u>3/28/2006</u> |
| Weather <u>Sunny, 50s</u> | Operator <u>Matt Stone</u> | Ground Elev. <u>135.8 feet</u> |
| | Make <u>Komatsu</u> Model <u>PC 27</u> | Time Started <u>0815</u> |
| | Capacity <u>1.5 feet³</u> Reach <u>10 feet</u> | Time Completed <u>0845</u> |

| Depth | Soil Description | Sample No. | PID Reading (ppm) | Excav. Effort | Boulders: Count/Class | Note No. |
|-------|--|------------|-------------------|---------------|-----------------------|----------|
| 0 | Dark brown, fine to medium SAND, little Silt, little Organics. TOPSOIL | 0.5' S-1 | ND | E | | 1 |
| 0.5' | Light brown, fine SAND and Silt. | | | | | |
| 1' | SILTY SAND | S-2 | ND | E | | |
| 2' | Gray, fine to medium SAND, little Silt. | | | | | |
| 3' | | | | | | |
| 4' | | S-3 | ND | E | | |
| 5' | | | | | | |
| 6' | SAND | | | | | |
| 7' | Bottom of test pit at 7 feet below ground surface. No refusal encountered. | | | | | |
| 8' | | | | | | |
| 9' | | | | | | |
| 10' | | | | | | |
| 11' | | | | | | |
| 12' | | | | | | |
| 13' | | | | | | |

Notes:
1. Soil samples were screened for total volatile organic compounds (VOCS) using a TEI Model 580b organic vapor meter referenced to an isobutylene-in-air standard. Total VOCS detected are reported in parts per million (ppm) in the "Field Test Data" column. "ND" indicates no VOCS detected.

| <p>Test Pit Plan</p> <p>NORTH</p> <p>Volume = 2.3 cu. yd.</p> | <p>Boulder Class</p> <table border="0"> <tr> <th>Letter Designation</th> <th>Size Range Classification</th> </tr> <tr> <td>A</td> <td>6" - 17"</td> </tr> <tr> <td>B</td> <td>18" - 36"</td> </tr> <tr> <td>C</td> <td>36" and Larger</td> </tr> </table> | Letter Designation | Size Range Classification | A | 6" - 17" | B | 18" - 36" | C | 36" and Larger | <p>Proportions Used</p> <table border="0"> <tr> <td>TRACE (TR.)</td> <td>0 - 10%</td> </tr> <tr> <td>LITTLE (L.I.)</td> <td>10 - 20%</td> </tr> <tr> <td>SOME (SO.)</td> <td>20 - 35%</td> </tr> <tr> <td>AND</td> <td>35 - 50%</td> </tr> </table> | TRACE (TR.) | 0 - 10% | LITTLE (L.I.) | 10 - 20% | SOME (SO.) | 20 - 35% | AND | 35 - 50% | <p>Abbreviations</p> <p>F = Fine M = Medium C = Coarse V = Very F/M = Fine to medium F/C = Fine to coarse GR = Gray BN = Brown YEL = Yellow</p> | <p>GROUNDWATER</p> <p>() Encountered (X) Not Encountered</p> <table border="0"> <tr> <td>Elapsed Time to Reading (Hours)</td> <td>Depth to Groundwater</td> </tr> <tr> <td><input type="text"/></td> <td><input type="text"/></td> </tr> </table> | Elapsed Time to Reading (Hours) | Depth to Groundwater | <input type="text"/> | <input type="text"/> |
|--|---|---------------------------|---------------------------|---|----------|---|-----------|---|----------------|---|-------------|---------|---------------|----------|------------|----------|-----|----------|---|--|---------------------------------|----------------------|----------------------|----------------------|
| | Letter Designation | Size Range Classification | | | | | | | | | | | | | | | | | | | | | | |
| A | 6" - 17" | | | | | | | | | | | | | | | | | | | | | | | |
| B | 18" - 36" | | | | | | | | | | | | | | | | | | | | | | | |
| C | 36" and Larger | | | | | | | | | | | | | | | | | | | | | | | |
| TRACE (TR.) | 0 - 10% | | | | | | | | | | | | | | | | | | | | | | | |
| LITTLE (L.I.) | 10 - 20% | | | | | | | | | | | | | | | | | | | | | | | |
| SOME (SO.) | 20 - 35% | | | | | | | | | | | | | | | | | | | | | | | |
| AND | 35 - 50% | | | | | | | | | | | | | | | | | | | | | | | |
| Elapsed Time to Reading (Hours) | Depth to Groundwater | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="text"/> | <input type="text"/> | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Excavation Effort</p> <p>E ---- Easy M ---- Moderate D ---- Difficult</p> | | | | | | | | | | | | | | | | | | | | | | | | |

GZA GeoEnvironmental, Inc. Test Pit No. TP-18
 Engineers/Scientists River Place Page No. 1 of 1
Hudson, New Hampshire File No. 04.0024050.01
 380 Harvey Road Checked By: RAB
 Manchester, New Hampshire 03103

Excavation Equipment

GZA Rep. C. Melby Contractor New Hampshire Boring, Inc. Date 3/28/2006
 Operator Matt Stone Ground Elev. 126.5 feet
 Weather Sunny, 50s Make Komatsu Model PC 27 Time Started 0845
 Capacity 1.5 feet³ Reach 10 feet Time Completed 0920

| Depth | Soil Description | Sample No. | PID Reading (ppm) | Excav. Effort | Boulders: Count/Class | Note No. |
|-------|---|------------|-------------------|---------------|-----------------------|----------|
| 0 | Dark brown, fine to medium SAND, little Silt, little Organics. TOPSOIL | S-1 | | E | | 1 |
| 1' | Brown, fine to medium SAND, some Silt. | | ND | E | | |
| 2' | SILTY SAND | | | E | | |
| 3' | | | | E | | |
| 4' | Black, Organic Peat, trace Root Fibers. | S-2 | | M | | |
| 5' | PEAT | | ND | M | | |
| 6' | | | | M | | |
| 7' | Bottom test pit at 6.5 feet below ground surface. No refusal encountered. | | | | | |
| 8' | | | | | | |
| 9' | | | | | | |
| 10' | | | | | | |
| 11' | | | | | | |
| 12' | | | | | | |
| 13' | | | | | | |

Notes:
 1. Soil samples were screened for total volatile organic compounds (VOCS) using a TEI Model 580b organic vapor meter referenced to an isobutylene-in-air standard. Total VOCS detected are reported in parts per million (ppm) in the "Field Test Data" column. "ND" indicates no VOCS detected.

| | | | | | |
|---|---|---|---|---|---|
| Test Pit Plan NORTH Volume = <u>2.5</u> cu. yd. | Boulder Class Letter Designation Size Range Classification A 6" - 17" B 18" - 36" C 36" and Larger | Proportions Used TRACE (TR.) 0 - 10% LITTLE (LJ.) 10 - 20% SOME (SO.) 20 - 35% AND 35 - 50% | Abbreviations F = Fine M = Medium C = Coarse V = Very F/M = Fine to medium F/C = Fine to coarse GR = Gray BN = Brown YEL = Yellow | GROUNDWATER (X) Encountered () Not Encountered Elapsed Time to Reading (Hours) <div style="border: 1px solid black; width: 50px; text-align: center;">5 minutes</div> | Depth to Groundwater <div style="border: 1px solid black; width: 50px; text-align: center;">5.4 feet</div> |
| | Excavation Effort E ---- Easy M ---- Moderate D ---- Difficult | | | | |

GZA GeoEnvironmental, Inc. Test Pit No. TP-19
 Engineers/Scientists River Place Page No. 1 of 1
Hudson, New Hampshire File No. 04.0024050.01
 380 Harvey Road Checked By: RAB
 Manchester, New Hampshire 03103

GZA Rep. C. Melby Contractor New Hampshire Boring, Inc. Date 3/28/2006
 Operator Matt Stone Ground Elev. 127.7 feet
 Weather Sunny, 50s Make Komatsu Model PC 27 Time Started 0920
 Capacity 1.5 feet³ Reach 10 feet Time Completed 1010

| Depth | Soil Description | Sample No. | PID Reading (ppm) | Excav. Effort | Boulders: Count/Class | Note No. |
|-------|--|------------|-------------------|---------------|-----------------------|----------|
| 0 | Dark brown, fine to medium SAND, little Silt, little Organics. TOPSOIL | S-1 | ND | E | | 1 |
| 0.8' | | | | | | |
| 1' | Gray and brown, fine SAND and Silt. Moist | S-2 | ND | E | | |
| 2' | | | | E | | |
| 3' | | | | E | | |
| 4' | | | | E | | |
| 5' | | | | E | | |
| 6' | SILTY SAND | | | E | | |
| 7' | Bottom of test pit at 7 feet below ground surface. No refusal encountered. | | | | | |
| 8' | | | | | | |
| 9' | | | | | | |
| 10' | | | | | | |
| 11' | | | | | | |
| 12' | | | | | | |
| 13' | | | | | | |

Notes:
 1. Soil samples were screened for total volatile organic compounds (VOCS) using a TEI Model 580b organic vapor meter referenced to an isobutylene-in-air standard. Total VOCS detected are reported in parts per million (ppm) in the "Field Test Data" column. "ND" indicates no VOCS detected.

| | | | | | |
|--|-----------------------------------|---|---|--|--|
| Test Pit Plan B NORTH Volume = <u>3.1</u> cu. yd. | Letter Designation A B C | Boulder Class Size Range Classification 6" - 17" 18" - 36" 36" and Larger | Proportions Used TRACE (TR.) 0 - 10% LITTLE (LI.) 10 - 20% SOME (SO.) 20 - 35% AND 35 - 50% | Abbreviations F = Fine M = Medium C = Coarse V = Very F/M = Fine to medium F/C = Fine to coarse GR = Gray BN = Brown YEL = Yellow | GROUNDWATER () Encountered (X) Not Encountered Elapsed Time to Reading (Hours) Depth to Groundwater |
| | | Excavation Effort E ---- Easy M --- Moderate D ---- Difficult | | | |



GZA GeoEnvironmental, Inc.

Engineers/Scientists

River Place

Hudson, New Hampshire

380 Harvey Road
Manchester, New Hampshire 03103

Test Pit No. TP-20

Page No. 1 of 1

File No. 04.0024050.01

Checked By: RAB

Excavation Equipment

GZA Rep. C. Melby

Contractor New Hampshire Boring, Inc.

Date 3/28/2006

Operator Matt Stone

Ground Elev. 133.2 feet

Weather Sunny, 50s

Make Komatsu Model PC 27

Time Started 1115

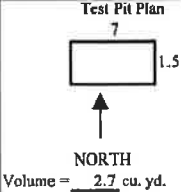
Capacity 1.5 feet³ Reach 10 feet

Time Completed 1140

| Depth | Soil Description | Sample No. | PID Reading (ppm) | Excav. Effort | Boulders: Count/ Class | Note No. |
|-------|--|------------|-------------------|---------------|------------------------|----------|
| 0 | Dark brown, fine to medium SAND, little Silt, little Organics. TOPSOIL | S-1 | ND | E | | 1 |
| 0.7' | | 0.7' | | E | | |
| 1' | Light brown to gray, fine SAND and Silt. Moist | | | E | | |
| 2' | | | | E | | |
| 3' | | | | E | | |
| 4' | | | | E | | |
| 5' | SILTY SAND | S-2 | ND | E | | |
| 6' | | | | E | | |
| 7' | Bottom of test pit at 7 feet below ground surface. No refusal encountered. | | | E | | |
| 8' | | | | | | |
| 9' | | | | | | |
| 10' | | | | | | |
| 11' | | | | | | |
| 12' | | | | | | |
| 13' | | | | | | |

Notes:

1. Soil samples were screened for total volatile organic compounds (VOCS) using a TEI Model 580b organic vapor meter referenced to an isobutylene-in-air standard. Total VOCS detected are reported in parts per million (ppm) in the "Field Test Data" column. "ND" indicates no VOCS detected.

| <p>Test Pit Plan</p>  | <p>Boulder Class</p> <table border="1"> <tr> <th>Letter Designation</th> <th>Size Range Classification</th> </tr> <tr> <td>A</td> <td>6" - 17"</td> </tr> <tr> <td>B</td> <td>18" - 36"</td> </tr> <tr> <td>C</td> <td>36" and Larger</td> </tr> </table> | Letter Designation | Size Range Classification | A | 6" - 17" | B | 18" - 36" | C | 36" and Larger | <p>Proportions Used</p> <table border="1"> <tr> <td>TRACE (TR.)</td> <td>0 - 10%</td> </tr> <tr> <td>LITTLE (LI.)</td> <td>10 - 20%</td> </tr> <tr> <td>SOME (SO.)</td> <td>20 - 35%</td> </tr> <tr> <td>AND</td> <td>35 - 50%</td> </tr> </table> | TRACE (TR.) | 0 - 10% | LITTLE (LI.) | 10 - 20% | SOME (SO.) | 20 - 35% | AND | 35 - 50% | <p>Abbreviations</p> <p>F = Fine M = Medium C = Coarse V = Very F/M = Fine to medium F/C = Fine to coarse GR = Gray BR = Brown YEL = Yellow</p> | <p>GROUNDWATER</p> <p>(X) Encountered () Not Encountered</p> <table border="1"> <tr> <td>Elapsed Time to Reading (Hours)</td> <td>Depth to Groundwater</td> </tr> <tr> <td>5 minutes</td> <td>4.8 feet</td> </tr> </table> | Elapsed Time to Reading (Hours) | Depth to Groundwater | 5 minutes | 4.8 feet |
|---|---|---------------------------|---------------------------|---|----------|---|-----------|---|----------------|--|-------------|---------|--------------|----------|------------|----------|-----|----------|---|---|---------------------------------|----------------------|-----------|----------|
| | Letter Designation | Size Range Classification | | | | | | | | | | | | | | | | | | | | | | |
| A | 6" - 17" | | | | | | | | | | | | | | | | | | | | | | | |
| B | 18" - 36" | | | | | | | | | | | | | | | | | | | | | | | |
| C | 36" and Larger | | | | | | | | | | | | | | | | | | | | | | | |
| TRACE (TR.) | 0 - 10% | | | | | | | | | | | | | | | | | | | | | | | |
| LITTLE (LI.) | 10 - 20% | | | | | | | | | | | | | | | | | | | | | | | |
| SOME (SO.) | 20 - 35% | | | | | | | | | | | | | | | | | | | | | | | |
| AND | 35 - 50% | | | | | | | | | | | | | | | | | | | | | | | |
| Elapsed Time to Reading (Hours) | Depth to Groundwater | | | | | | | | | | | | | | | | | | | | | | | |
| 5 minutes | 4.8 feet | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Excavation Effort</p> <p>E ---- Easy M --- Moderate D ---- Difficult</p> | | | | | | | | | | | | | | | | | | | | | | | | |



GZA GeoEnvironmental, Inc.

GZA GeoEnvironmental, Inc. Test Pit No. TP-21
 Engineers/Scientists Page No. 1 of 1
River Place
Hudson, New Hampshire
 380 Harvey Road File No. 04.0024050.01
 Manchester, New Hampshire 03103 Checked By: RAB

Excavation Equipment

GZA Rep. C. Melby Contractor New Hampshire Boring, Inc. Date 3/28/2006
 Operator Matt Stone Ground Elev. 127.7 feet
 Weather Sunny, 50s Make Komatsu Model PC 27 Time Started 1015
 Capacity 1.5 feet³ Reach 10 feet Time Completed 1050

| Depth | Soil Description | Sample No. | PID Reading (ppm) | Excav. Effort | Boulders: Count/Class | Note No. |
|--|--|------------|-------------------|---------------|-----------------------|----------|
| 0 | Dark brown, fine to medium SAND, little Silt, little Organics. TOPSOIL | S-1 | ND | E | | 1 |
| 0.5' | | | | | | |
| 1' | | | | | | |
| 2' | | SILT | S-2 | E | E | |
| 3' | | | | | | |
| 4' | | | | | | |
| 5' | | | | | | |
| 6' | | | | | | |
| 6.8' | | | | | | |
| 7' | | | | | | |
| 8' | | | | | | |
| 9' | | | | | | |
| 10' | | | | | | |
| 11' | | | | | | |
| 12' | | | | | | |
| 13' | | | | | | |
| Bottom of test pit at 6.8 feet below ground surface. No refusal encountered. | | | | | | |

Notes:
 1. Soil samples were screened for total volatile organic compounds (VOCS) using a TEI Model 580b organic vapor meter referenced to an isobutylene-in-air standard. Total VOCS detected are reported in parts per million (ppm) in the "Field Test Data" column. "ND" indicates no VOCS detected.

| | | | | |
|-------------------|--|---|---|--|
| Test Pit Plan | Boulder Class Letter Designation Size Range Classification A 6" - 17" FINE B 18" - 36" MEDIUM C 36" and Larger COARSE Excavation Effort E ----- Easy M ---- Moderate D ----- Difficult | Proportions Used TRACE (TR.) 0 - 10% LITTLE (LI.) 10 - 20% SOME (SO.) 20 - 35% AND 35 - 50% | Abbreviations F = Fine M = Medium C = Coarse V = Very F/M = Fine to medium F/C = Fine to coarse GR = Gray BN = Brown YEL = Yellow | GROUNDWATER (X) Encountered () Not Encountered Elapsed Time to Reading (Hours) <div style="border: 1px solid black; width: 50px; text-align: center;">5 minutes</div> Depth to Groundwater <div style="border: 1px solid black; width: 50px; text-align: center;">6.7 feet</div> |
|-------------------|--|---|---|--|

GZA GeoEnvironmental, Inc.

Engineers/Scientists

River Place

Hudson, New Hampshire

380 Harvey Road

Manchester, New Hampshire 03103

Test Pit No. TP-22

Page No. 1 of 1

File No. 04.0024050.01

Checked By: RAB

| | | | | | | |
|----------|------------|------------|----------------------------|---------------|----------------|------------|
| GZA Rep. | C. Melby | Contractor | New Hampshire Boring, Inc. | | Date | 3/28/2006 |
| Weather | Sunny, 50s | Operator | Matt Stone | | Ground Elev. | 146.3 feet |
| | | Make | Komatsu | Model PC 27 | Time Started | 1115 |
| | | Capacity | 1.5 feet ³ | Reach 10 feet | Time Completed | 1140 |

| Depth | Soil Description | Sample No. | PID Reading (ppm) | Excav. Effort | Boulders: Count/Class | Note No. |
|-------|---|------------|-------------------|---------------|-----------------------|----------|
| 0 | Dark brown, fine to medium SAND, little Silt, little Organics TOPSOIL | 0.4 S-1 | ND | | | 1 |
| 0.4' | Brown fine to medium SAND, little Silt | | | | | |
| 1' | SAND | | ND | | 1/C | 2 |
| 2' | | | | | | |
| 3' | Dark brown, fine to medium SAND, little Silt, trace Organics (Wood pieces). | 3.4' S-2 | ND | | | |
| 3.4' | | | | | | |
| 4' | Color change | 4.3' | | | | |
| 4.3' | | | | | | |
| 5' | Brown, fine to medium SAND, trace Silt. | 6.2' | ND | | | |
| 6' | SAND | | | | | |
| 6.2' | Gray, SILT, little, fine Sand. Moist | 6.2' | ND | | | |
| 7' | SILT | | | | | |
| 7' | Bottom of test pit at 7 feet below ground surface. No refusal encountered. | | | | | |
| 8' | | | | | | |
| 9' | | | | | | |
| 10' | | | | | | |
| 11' | | | | | | |
| 12' | | | | | | |
| 13' | | | | | | |

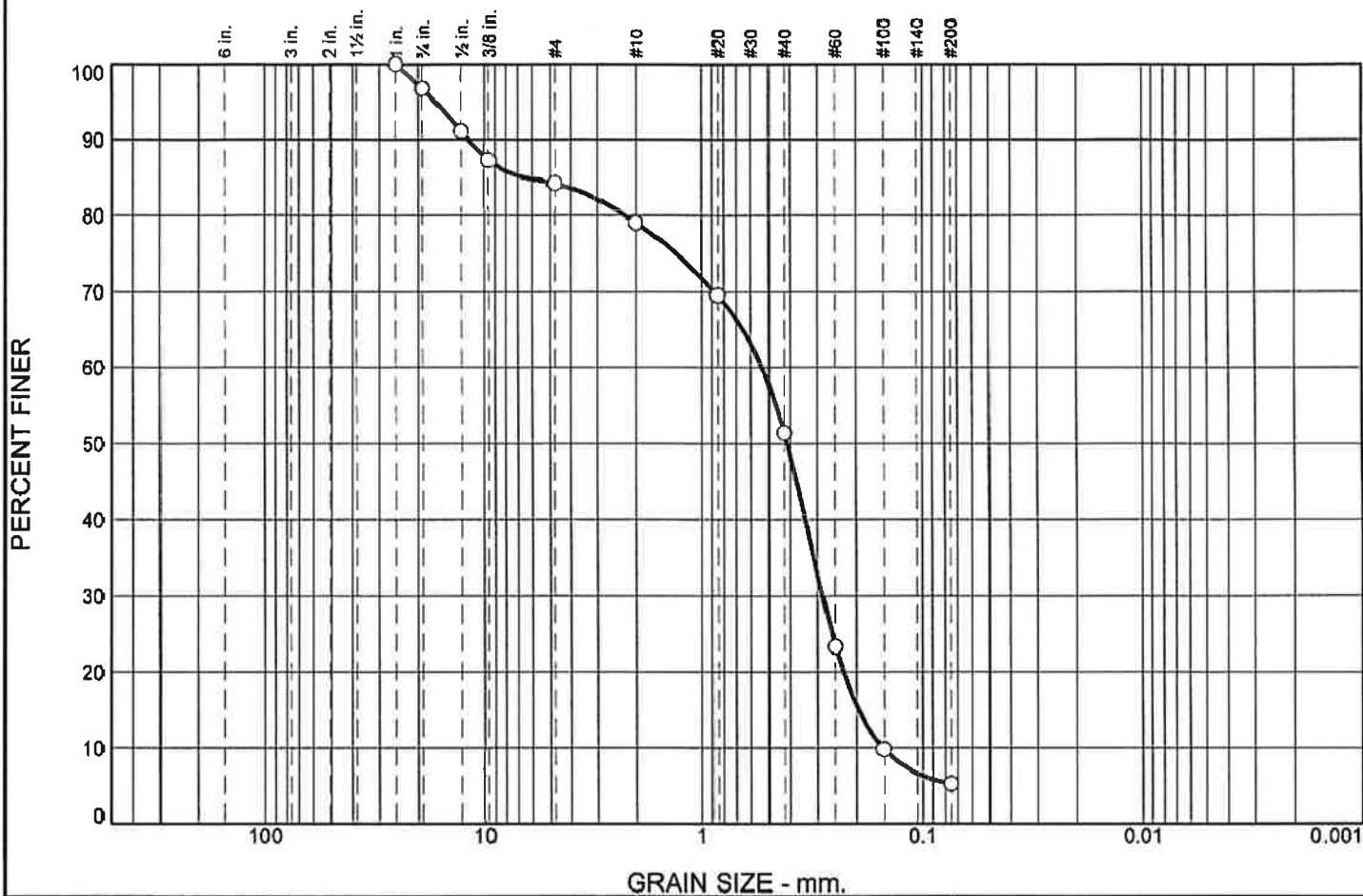
Notes:

- Soil samples were screened for total volatile organic compounds (VOCS) using a TEI Model 580b organic vapor meter referenced to an isobutylene-in-air standard. Total VOCS detected are reported in parts per million (ppm) in the "Field Test Data" column. "ND" indicates no VOCS detected.
- Metal debris encountered at approximately 2 feet below ground surface.

| | | | | |
|---|--|--|--|--|
| <p>Test Pit Plan 8 3 NORTH Volume = 6.2 cu. yd.</p> | <p>Boulder Class</p> <p>Letter Designation Size Range Classification</p> <p>A 6" - 17"</p> <p>B 18" - 36"</p> <p>C 36" and Larger</p> | <p>Proportions Used</p> <p>TRACE (TR.) 0 - 10%</p> <p>LITTLE (LI.) 10 - 20%</p> <p>SOME (SO.) 20 - 35%</p> <p>AND 35 - 50%</p> | <p>Abbreviations</p> <p>F = Fine</p> <p>M = Medium</p> <p>C = Course</p> <p>V = Very</p> <p>F/M = Fine to medium</p> <p>F/C = Fine to coarse</p> <p>GR = Gray</p> <p>BN = Brown</p> <p>YEL = Yellow</p> | <p>GROUNDWATER</p> <p>() Encountered</p> <p>(X) Not Encountered</p> <p>Elapsed Time to Reading (Hours)</p> <p>Depth to Groundwater</p> |
| | <p>Excavation Effort</p> <p>E ---- Easy</p> <p>M ---- Moderate</p> <p>D ---- Difficult</p> | | | |

APPENDIX D
LABORATORY TESTING

Particle Size Distribution Report



| % +3" | % Gravel | | | % Sand | | | % Fines |
|-------|----------|--------|------|--------|--------|------|---------|
| | Coarse | Medium | Fine | Coarse | Medium | Fine | |
| 0.0 | 0.0 | 12.8 | 8.2 | 15.8 | 39.9 | 18.0 | 5.3 |

| SIEVE SIZE | PERCENT FINER | SPEC.* PERCENT | PASS? (X=NO) |
|------------|---------------|----------------|--------------|
| 1 | 100.0 | | |
| 3/4 | 96.7 | | |
| 1/2 | 91.0 | | |
| 3/8 | 87.2 | | |
| #4 | 84.3 | | |
| #10 | 79.0 | | |
| #20 | 69.5 | | |
| #40 | 51.4 | | |
| #60 | 23.3 | | |
| #100 | 9.8 | | |
| #200 | 5.3 | | |

* (no specification provided)

Material Description

Brown, fine to coarse SAND, some Gravel, trace Silt.

Atterberg Limits

PL= LL= PI=

Coefficients

D₈₅= 6.5298 D₆₀= 0.5332 D₅₀= 0.4127
D₃₀= 0.2865 D₁₅= 0.1971 D₁₀= 0.1525
C_u= 3.50 C_c= 1.01

Classification

USCS= SP-SM AASHTO= A-3

Remarks

Sample Number: S-3
Source of Sample: B-1

Depth: 10-12 ft.

Date:

GZA GeoEnvironmental, Inc.

Client: W/S Development Associates, LLC

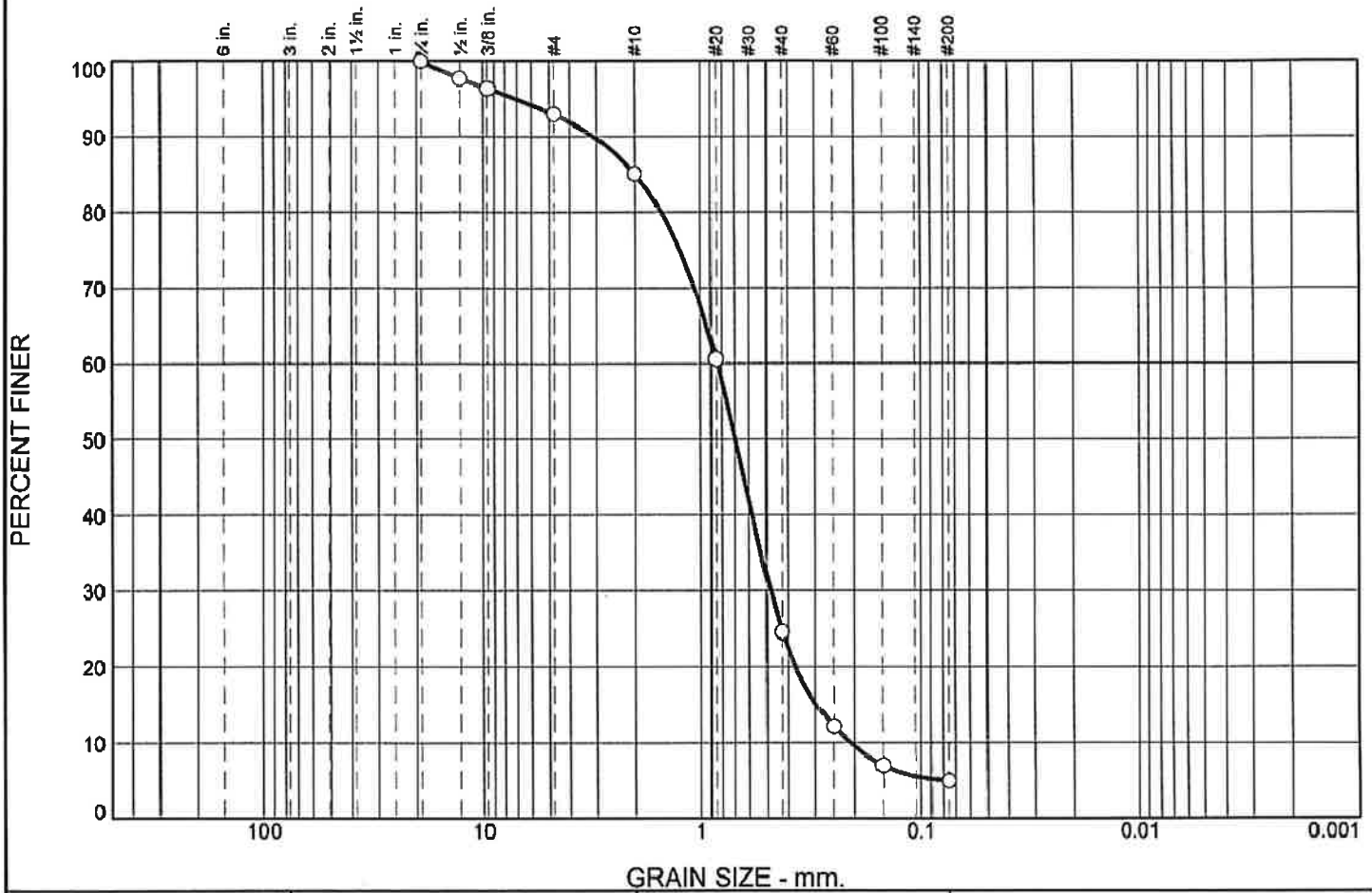
Project: River Place Hudson, NH

Manchester, NH

Project No: 24050.01

Figure

Particle Size Distribution Report



| % +3" | % Gravel | | | % Sand | | | % Fines |
|-------|----------|--------|------|--------|--------|------|---------|
| | Coarse | Medium | Fine | Coarse | Medium | Fine | |
| 0.0 | 0.0 | 3.7 | 11.3 | 43.3 | 29.5 | 7.2 | 5.0 |

| SIEVE SIZE | PERCENT FINER | SPEC.* PERCENT | PASS? (X=NO) |
|------------|---------------|----------------|--------------|
| 3/4 | 100.0 | | |
| 1/2 | 97.6 | | |
| 3/8 | 96.3 | | |
| #4 | 92.9 | | |
| #10 | 85.0 | | |
| #20 | 60.5 | | |
| #40 | 24.6 | | |
| #60 | 12.2 | | |
| #100 | 7.0 | | |
| #200 | 5.0 | | |

Material Description

Brown, medium to coarse SAND, little Gravel, trace Silt.

Atterberg Limits

PL= LL= PI=

Coefficients

D₈₅= 1.9957 D₆₀= 0.8406 D₅₀= 0.6956
D₃₀= 0.4810 D₁₅= 0.2993 D₁₀= 0.2091
C_u= 4.02 C_c= 1.32

Classification

USCS= SP-SM AASHTO= A-1-b

Remarks

* (no specification provided)

Sample Number: S-2
Source of Sample: B-2

Depth: 5-7 ft.

Date:

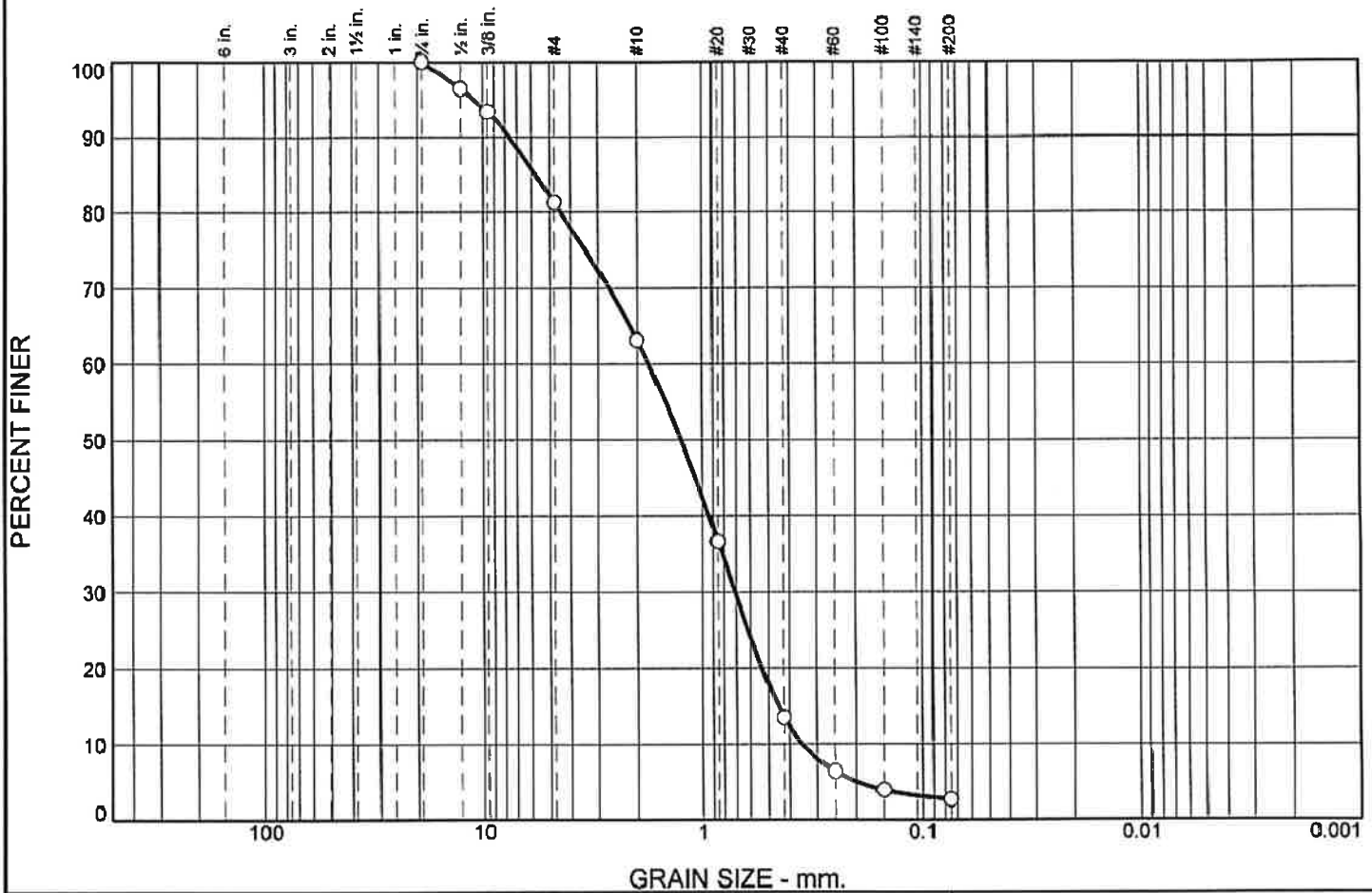
GZA GeoEnvironmental, Inc.
Manchester, NH

Client: W/S Development Associates, LLC
Project: River Place Hudson, NH

Project No: 24050.01

Figure

Particle Size Distribution Report



| % +3" | % Gravel | | | % Sand | | | % Fines |
|-------|----------|--------|------|--------|--------|------|---------|
| | Coarse | Medium | Fine | Coarse | Medium | Fine | |
| 0.0 | 0.0 | 6.7 | 30.2 | 39.2 | 17.6 | 3.6 | 2.7 |

| SIEVE SIZE | PERCENT FINER | SPEC.* PERCENT | PASS? (X=NO) |
|------------|---------------|----------------|--------------|
| 3/4 | 100.0 | | |
| 1/2 | 96.3 | | |
| 3/8 | 93.3 | | |
| #4 | 81.3 | | |
| #10 | 63.1 | | |
| #20 | 36.7 | | |
| #40 | 13.5 | | |
| #60 | 6.3 | | |
| #100 | 3.9 | | |
| #200 | 2.7 | | |

Material Description

Brown, medium to coarse SAND and Gravel, trace Silt.

PL= **Atterberg Limits** PI=

Coefficients

D₈₅= 5.7652 D₆₀= 1.7718 D₅₀= 1.2577
D₃₀= 0.7099 D₁₅= 0.4515 D₁₀= 0.3539
C_u= 5.01 C_c= 0.80

Classification

USCS= SP AASHTO= A-1-b

Remarks

* (no specification provided)

Sample Number: S-2 Depth: 5-7 ft. Date:

Source of Sample: B-3

GZA GeoEnvironmental, Inc.

Manchester, NH

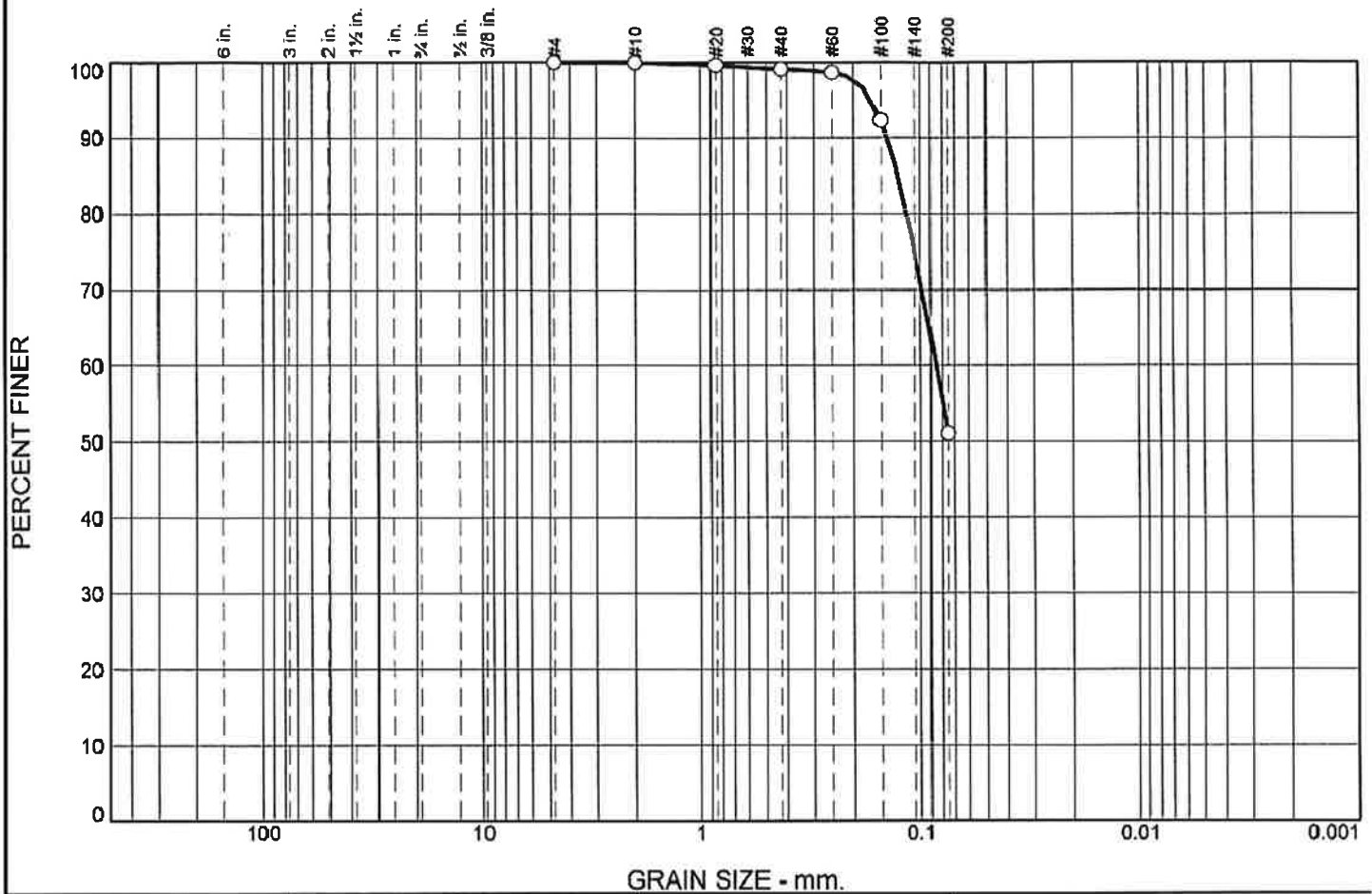
Client: W/S Development Associates, LLC

Project: River Place Hudson, NH

Project No: 24050.01

Figure

Particle Size Distribution Report



| % +3" | % Gravel | | | % Sand | | | % Fines |
|-------|----------|--------|------|--------|--------|------|---------|
| | Coarse | Medium | Fine | Coarse | Medium | Fine | |
| 0.0 | 0.0 | 0.0 | 0.1 | 0.6 | 0.7 | 47.5 | 51.1 |

| SIEVE SIZE | PERCENT FINER | SPEC.* PERCENT | PASS? (X=NO) |
|------------|---------------|----------------|--------------|
| #4 | 100.0 | | |
| #10 | 99.9 | | |
| #20 | 99.6 | | |
| #40 | 99.0 | | |
| #60 | 98.6 | | |
| #100 | 92.1 | | |
| #200 | 51.1 | | |

Material Description

Brown, SILT and fine Sand.

Atterberg Limits
 PL= LL= PI=

Coefficients
 D₈₅= 0.1265 D₆₀= 0.0849 D₅₀=
 D₃₀= D₁₅= D₁₀=
 C_u= C_c=

Classification
 USCS= ML AASHTO= A-4(0)

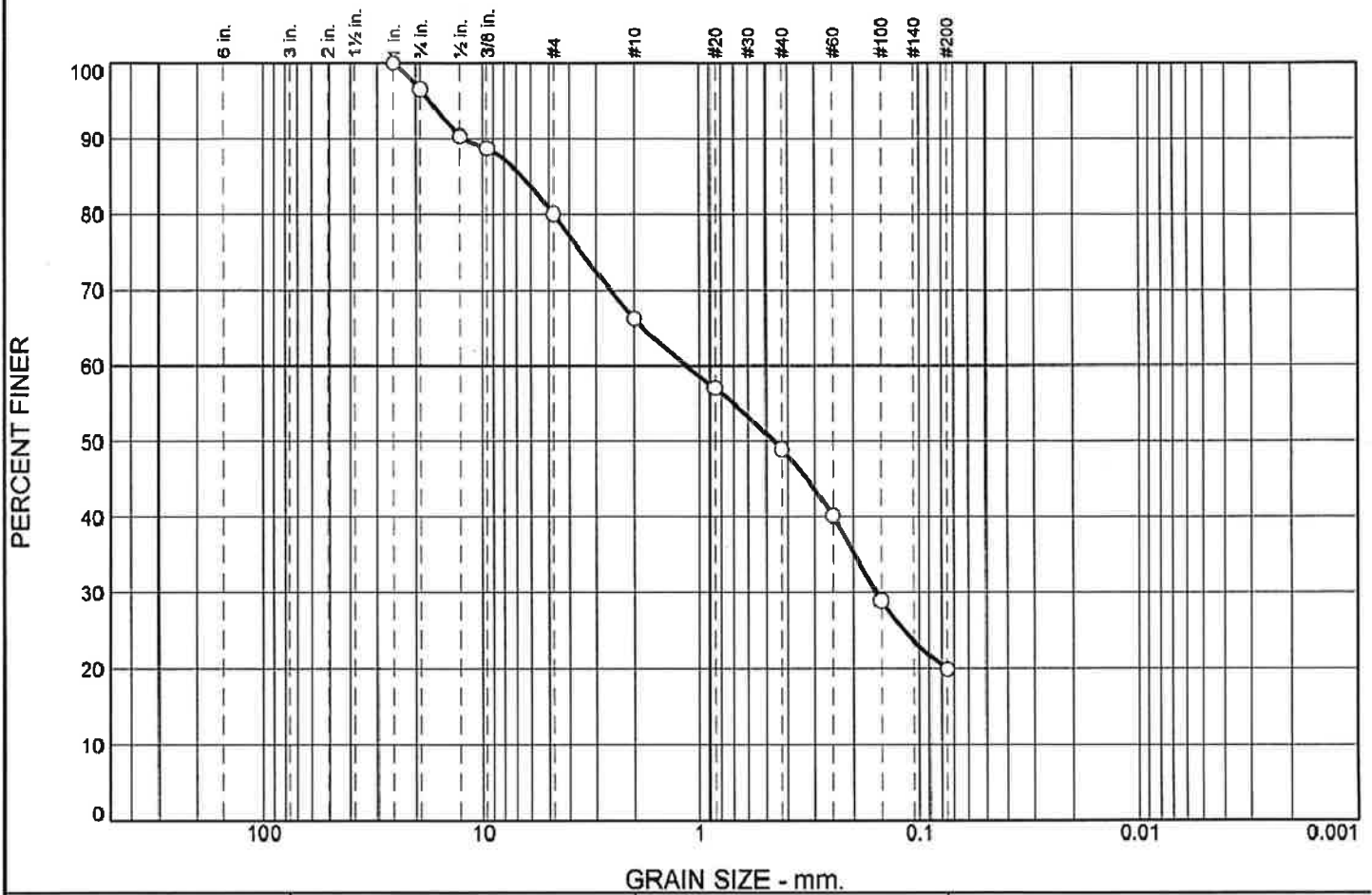
Remarks

* (no specification provided)

Sample Number: S-2A Depth: 5-6.8 ft. Date:

Source of Sample: B-4

Particle Size Distribution Report



| % +3" | % Gravel | | | % Sand | | | % Fines |
|-------|----------|--------|------|--------|--------|------|---------|
| | Coarse | Medium | Fine | Coarse | Medium | Fine | |
| 0.0 | 0.0 | 11.3 | 22.6 | 12.9 | 13.1 | 20.3 | 19.8 |

| SIEVE SIZE | PERCENT FINER | SPEC.* PERCENT | PASS? (X=NO) |
|------------|---------------|----------------|--------------|
| 1 | 100.0 | | |
| 3/4 | 96.5 | | |
| 1/2 | 90.3 | | |
| 3/8 | 88.7 | | |
| #4 | 80.0 | | |
| #10 | 66.1 | | |
| #20 | 57.0 | | |
| #40 | 48.9 | | |
| #60 | 40.1 | | |
| #100 | 28.9 | | |
| #200 | 19.8 | | |

Material Description

Brown, fine to medium Sand, some Gravel, little Silt.

Atterberg Limits

PL= LL= PI=

Coefficients

D₈₅= 6.5879 D₆₀= 1.1538 D₅₀= 0.4621
D₃₀= 0.1587 D₁₅= D₁₀=
C_u= C_c=

Classification

USCS= SM AASHTO= A-1-b

Remarks

* (no specification provided)

Sample Number: S-3A
Source of Sample: B-5

Depth: 10-12 ft.

Date:

GZA GeoEnvironmental, Inc.

Client: W/S Development Associates, LLC

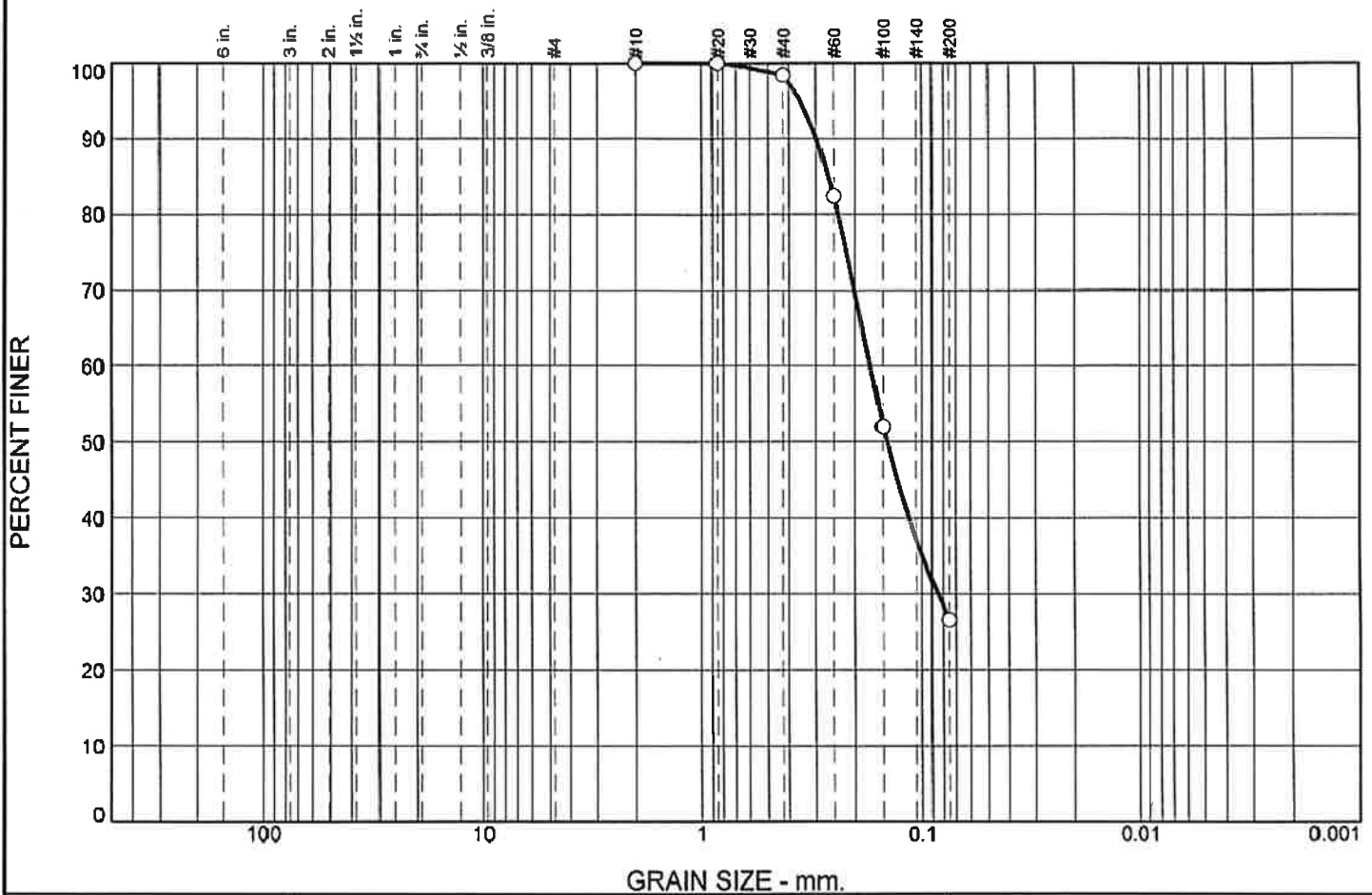
Project: River Place Hudson, NH

Manchester, NH

Project No: 24050.01

Figure

Particle Size Distribution Report



| % +3" | % Gravel | | | % Sand | | | % Fines |
|-------|----------|--------|------|--------|--------|------|---------|
| | Coarse | Medium | Fine | Coarse | Medium | Fine | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 16.9 | 55.8 | 26.6 |

| SIEVE SIZE | PERCENT FINER | SPEC.* PERCENT | PASS? (X=NO) |
|------------|---------------|----------------|--------------|
| #10 | 100.0 | | |
| #20 | 100.0 | | |
| #40 | 98.3 | | |
| #60 | 82.4 | | |
| #100 | 52.0 | | |
| #200 | 26.6 | | |

Material Description

Brown, fine to medium SAND, some Silt.

| | | |
|--------------------------|--------------------------|--------------------------|
| PL= | Atterberg Limits | PI= |
| | LL= | |
| | Coefficients | |
| D ₈₅ = 0.2641 | D ₆₀ = 0.1721 | D ₅₀ = 0.1445 |
| D ₃₀ = 0.0846 | D ₁₅ = | D ₁₀ = |
| C _u = | C _c = | |
| Classification | | |
| USCS= SM | | AASHTO= A-2-4(0) |
| Remarks | | |

* (no specification provided)

Sample Number: S-2
Source of Sample: B-8

Depth: 5-7 ft.

Date:

GZA GeoEnvironmental, Inc.

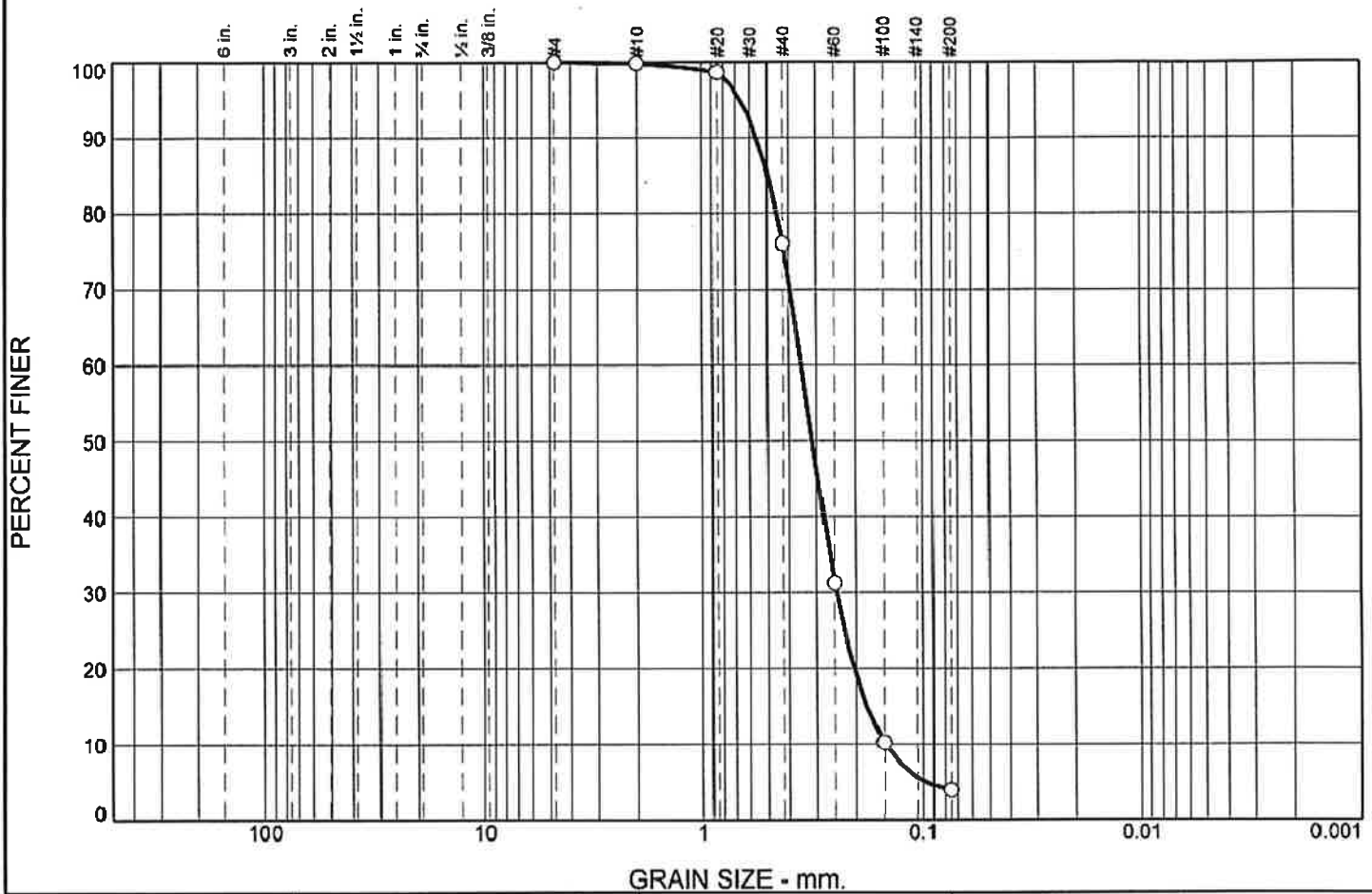
Manchester, NH

Client: W/S Development Associates, LLC
Project: River Place Hudson, NH

Project No: 24050.01

Figure

Particle Size Distribution Report



| % +3" | % Gravel | | | % Sand | | | % Fines |
|-------|----------|--------|------|--------|--------|------|---------|
| | Coarse | Medium | Fine | Coarse | Medium | Fine | |
| 0.0 | 0.0 | 0.0 | 0.2 | 7.2 | 61.4 | 27.3 | 3.9 |

| SIEVE SIZE | PERCENT FINER | SPEC.* PERCENT | PASS? (X=NO) |
|------------|---------------|----------------|--------------|
| #4 | 100.0 | | |
| #10 | 99.8 | | |
| #20 | 98.6 | | |
| #40 | 75.9 | | |
| #60 | 31.2 | | |
| #100 | 10.1 | | |
| #200 | 3.9 | | |

Material Description

Brown, fine to medium SAND, trace Silt.

Atterberg Limits

PL= LL= PI=

Coefficients

D₈₅= 0.4944 D₆₀= 0.3500 D₅₀= 0.3134
D₃₀= 0.2456 D₁₅= 0.1809 D₁₀= 0.1489
C_u= 2.35 C_c= 1.16

Classification

USCS= SP AASHTO= A-3

Remarks

* (no specification provided)

Sample Number: S-2
Source of Sample: B-9

Depth: 5-7 ft.

Date:

GZA GeoEnvironmental, Inc.

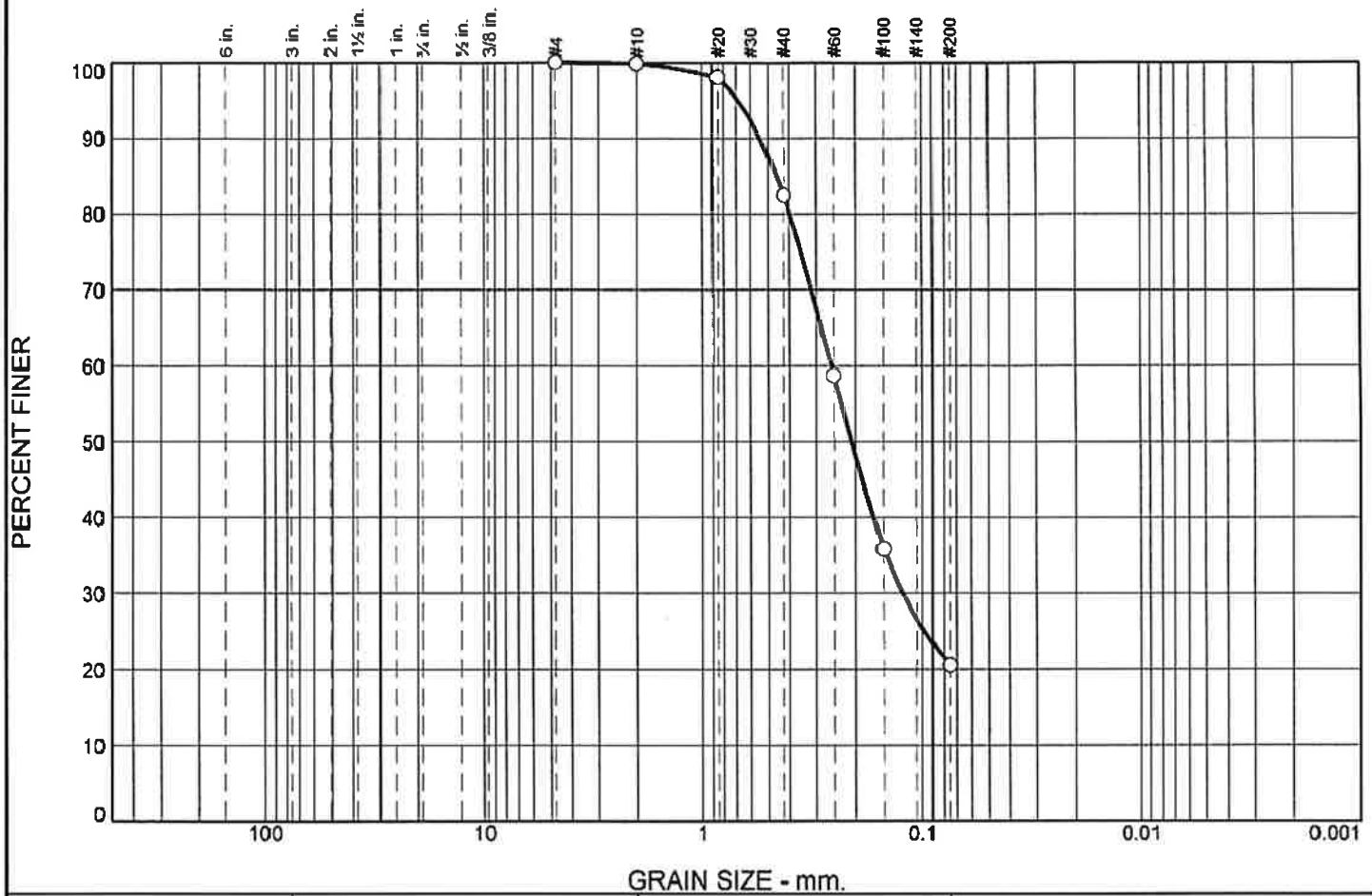
Client: W/S Development Associates, LLC
Project: River Place Hudson, NH

Manchester, NH

Project No: 24050.01

Figure

Particle Size Distribution Report



| % +3" | % Gravel | | | % Sand | | | % Fines |
|-------|----------|--------|------|--------|--------|------|---------|
| | Coarse | Medium | Fine | Coarse | Medium | Fine | |
| 0.0 | 0.0 | 0.0 | 0.1 | 7.5 | 33.7 | 38.2 | 20.5 |

| SIEVE SIZE | PERCENT FINER | SPEC.* PERCENT | PASS? (X=NO) |
|------------|---------------|----------------|--------------|
| #4 | 100.0 | | |
| #10 | 99.9 | | |
| #20 | 98.0 | | |
| #40 | 82.4 | | |
| #60 | 58.7 | | |
| #100 | 35.8 | | |
| #200 | 20.5 | | |

Material Description

Brown, fine to medium SAND, some Silt.

| | | |
|--------------------------|--------------------------|--------------------------|
| PL= | Atterberg Limits | PI= |
| | LL= | |
| | Coefficients | |
| D ₈₅ = 0.4579 | D ₆₀ = 0.2567 | D ₅₀ = 0.2092 |
| D ₃₀ = 0.1237 | D ₁₅ = | D ₁₀ = |
| C _u = | C _c = | |
| Classification | | |
| USCS= SM | AASHTO= A-2-4(0) | |
| Remarks | | |

* (no specification provided)

Sample Number: S-2

Source of Sample: B-11

Depth: 4-6 ft.

Date:

GZA GeoEnvironmental, Inc.

Manchester, NH

Client: W/S Development Associates, LLC

Project: River Place Hudson, NH

Project No: 24050.01

Figure

Particle Size Distribution Report



| % +3" | % Gravel | | | % Sand | | | % Fines |
|-------|----------|--------|------|--------|--------|------|---------|
| | Coarse | Medium | Fine | Coarse | Medium | Fine | |
| 0.0 | 0.0 | 0.5 | 7.0 | 22.3 | 43.4 | 10.2 | 16.6 |

| SIEVE SIZE | PERCENT FINER | SPEC.* PERCENT | PASS? (X=NO) |
|------------|---------------|----------------|--------------|
| 1/2 | 100.0 | | |
| 3/8 | 99.5 | | |
| #4 | 97.5 | | |
| #10 | 92.5 | | |
| #20 | 84.7 | | |
| #40 | 51.3 | | |
| #60 | 26.8 | | |
| #100 | 21.1 | | |
| #200 | 16.6 | | |

Material Description

Brown, fine to coarse SAND, little Silt, trace Gravel.

Atterberg Limits

PL= LL= PI=

Coefficients

D₈₅= 0.8574 D₆₀= 0.4958 D₅₀= 0.4150
D₃₀= 0.2756 D₁₅= D₁₀=
C_u= C_c=

Classification

USCS= SM AASHTO= A-2-4(0)

Remarks

* (no specification provided)

Sample Number: S-2 Depth: 5-7 ft. Date:

Source of Sample: B-15

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Manchester, NH

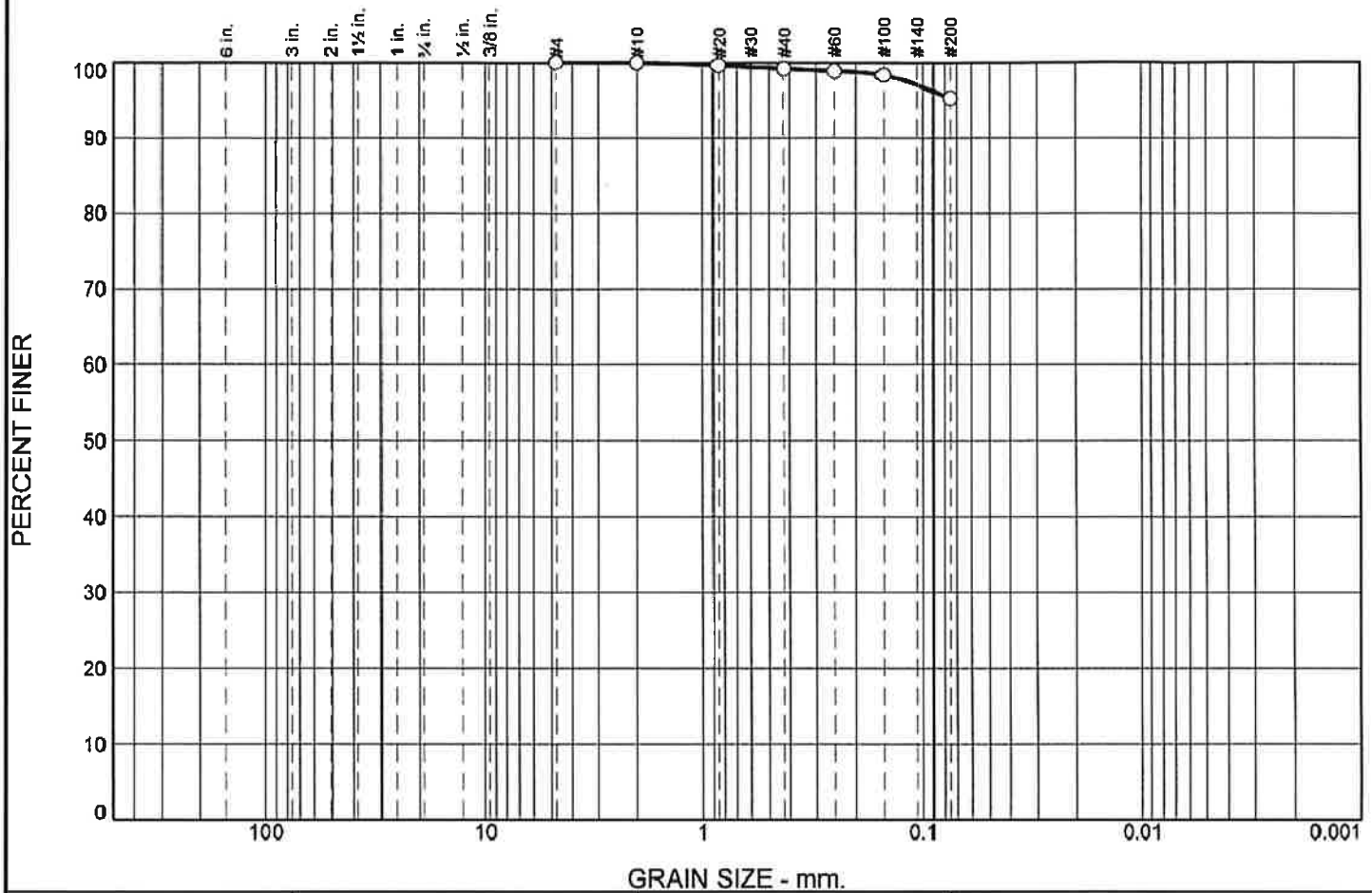
Client: W/S Development Associates, LLC

Project: River Place Hudson, NH

Project No: 24050.01

Figure

Particle Size Distribution Report



| % +3" | % Gravel | | | % Sand | | | % Fines |
|-------|----------|--------|------|--------|--------|------|---------|
| | Coarse | Medium | Fine | Coarse | Medium | Fine | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 3.6 | 95.2 |

| SIEVE SIZE | PERCENT FINER | SPEC.* PERCENT | PASS? (X=NO) |
|------------|---------------|----------------|--------------|
| #4 | 100.0 | | |
| #10 | 100.0 | | |
| #20 | 99.6 | | |
| #40 | 99.2 | | |
| #60 | 98.8 | | |
| #100 | 98.3 | | |
| #200 | 95.2 | | |

Material Description

Brown, SILT, trace fine Sand.

Atterberg Limits

PL= LL= PI=

Coefficients

D₈₅= D₆₀= D₅₀=
 D₃₀= D₁₅= D₁₀=
 C_u= C_c=

Classification

USCS= ML AASHTO= A-4(0)

Remarks

* (no specification provided)

Sample Number: S-1B
 Source of Sample: B-16

Depth: 0-2 ft.

Date:

GZA GeoEnvironmental, Inc.

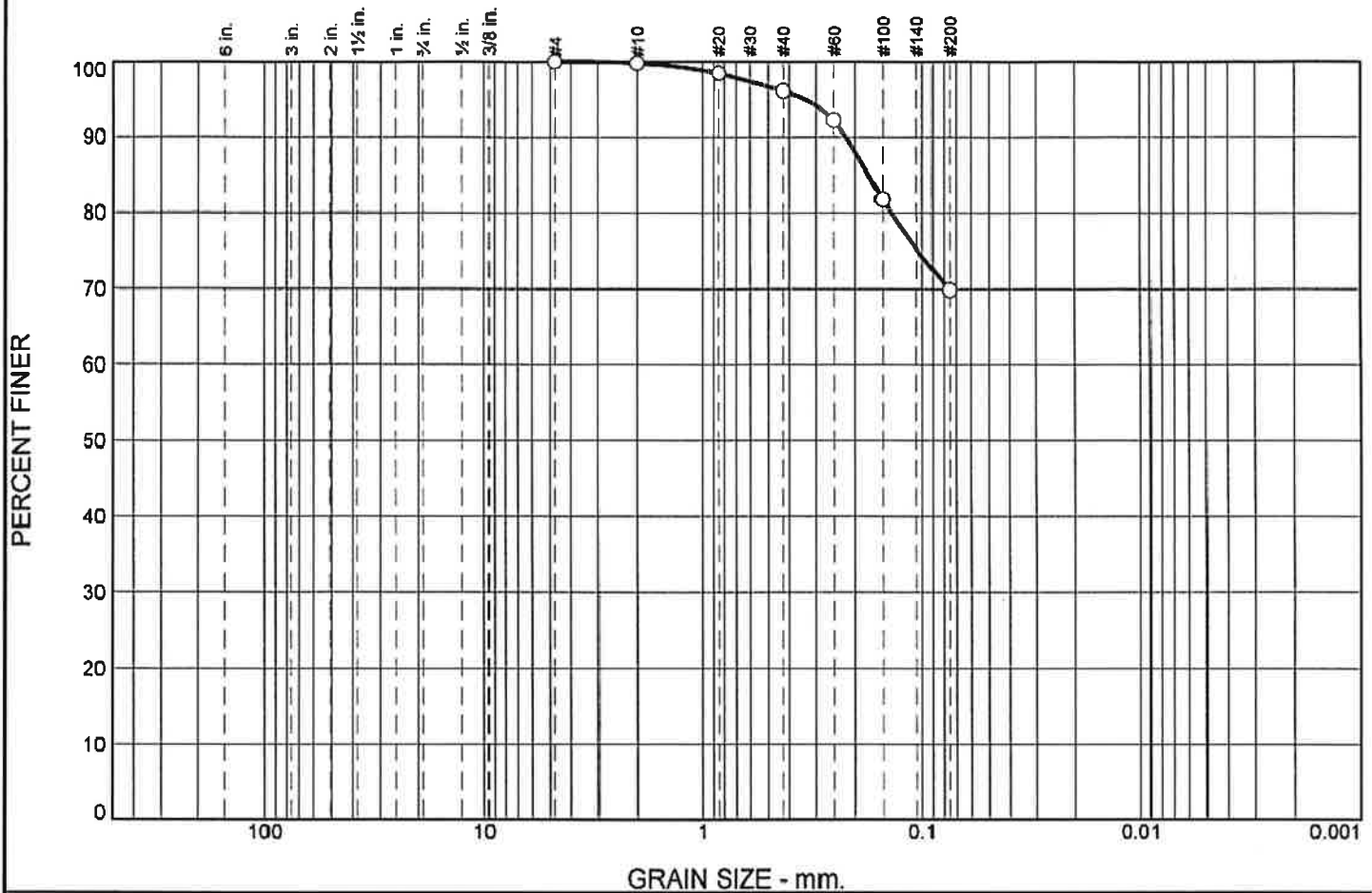
Manchester, NH

Client: W/S Development Associates, LLC
 Project: River Place Hudson, NH

Project No: 24050.01

Figure

Particle Size Distribution Report



| % +3" | % Gravel | | | % Sand | | | % Fines |
|-------|----------|--------|------|--------|--------|------|---------|
| | Coarse | Medium | Fine | Coarse | Medium | Fine | |
| 0.0 | 0.0 | 0.0 | 0.2 | 2.5 | 5.1 | 22.4 | 69.8 |

| SIEVE SIZE | PERCENT FINER | SPEC.* PERCENT | PASS? (X=NO) |
|------------|---------------|----------------|--------------|
| #4 | 100.0 | | |
| #10 | 99.8 | | |
| #20 | 98.4 | | |
| #40 | 96.0 | | |
| #60 | 92.2 | | |
| #100 | 81.6 | | |
| #200 | 69.8 | | |

Material Description

Brown, SILT, some fine Sand.

Atterberg Limits

PL= LL= PI=

Coefficients

D₈₅= 0.1747 D₆₀= D₅₀=

D₃₀= D₁₅= D₁₀=

C_u= C_c=

Classification

USCS= ML AASHTO= A-4(0)

Remarks

* (no specification provided)

Sample Number: S-2B
Source of Sample: B-17

Depth: 4-6 ft.

Date:

GZA GeoEnvironmental, Inc.

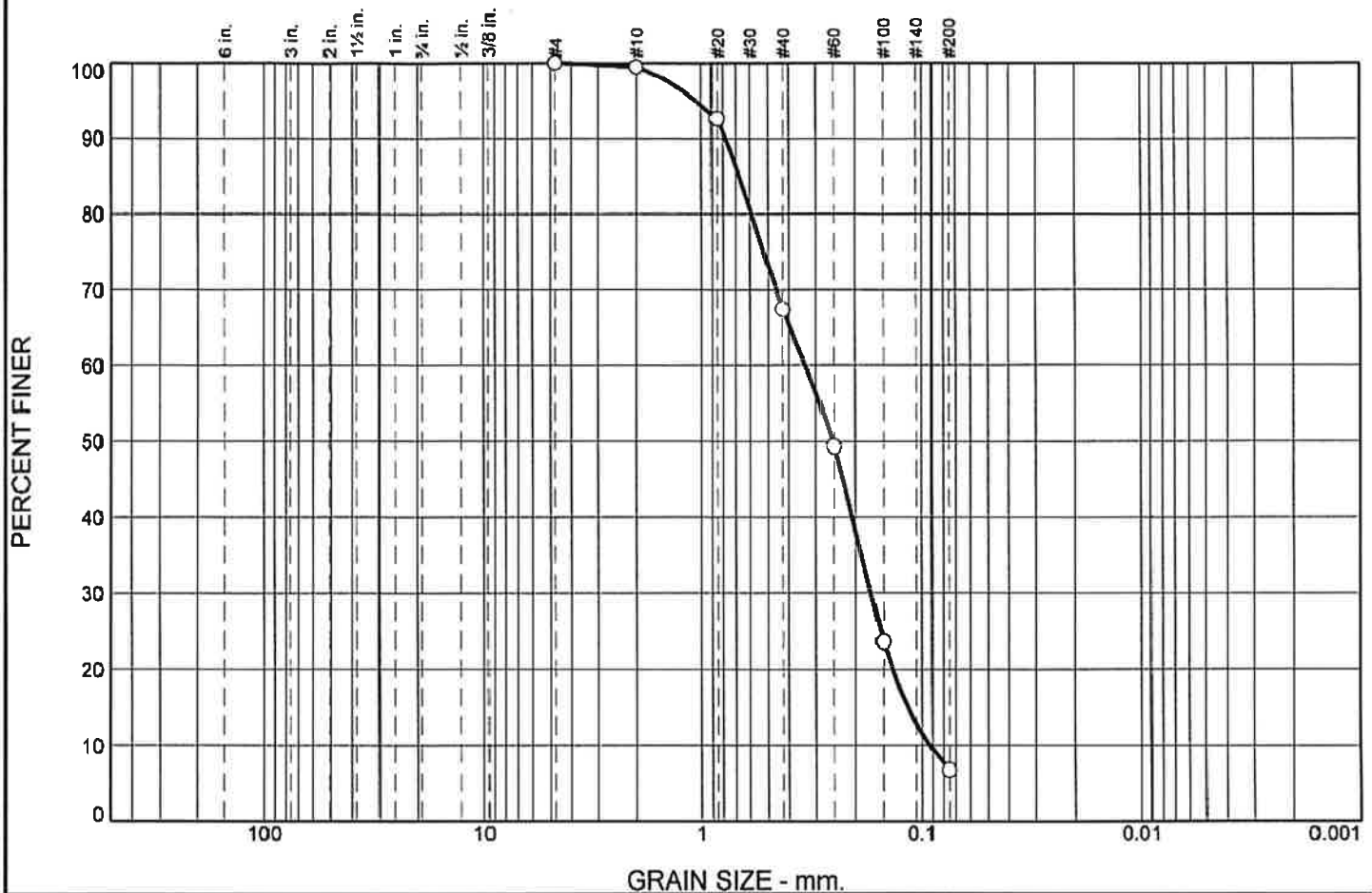
Manchester, NH

Client: W/S Development Associates, LLC
Project: River Place Hudson, NH

Project No: 24050.01

Figure

Particle Size Distribution Report



| % +3" | % Gravel | | % Sand | | | % Fines | |
|-------|----------|------|--------|--------|------|---------|------|
| | Coarse | Fine | Coarse | Medium | Fine | Silt | Clay |
| 0.0 | 0.0 | 0.0 | 0.5 | 32.1 | 60.6 | 6.8 | |

| SIEVE SIZE | PERCENT FINER | SPEC.* PERCENT | PASS? (X=NO) |
|------------|---------------|----------------|--------------|
| #4 | 100.0 | | |
| #10 | 99.5 | | |
| #20 | 92.6 | | |
| #40 | 67.4 | | |
| #60 | 49.3 | | |
| #100 | 23.6 | | |
| #200 | 6.8 | | |

Material Description

Brown, fine to medium SAND, trace Silt.

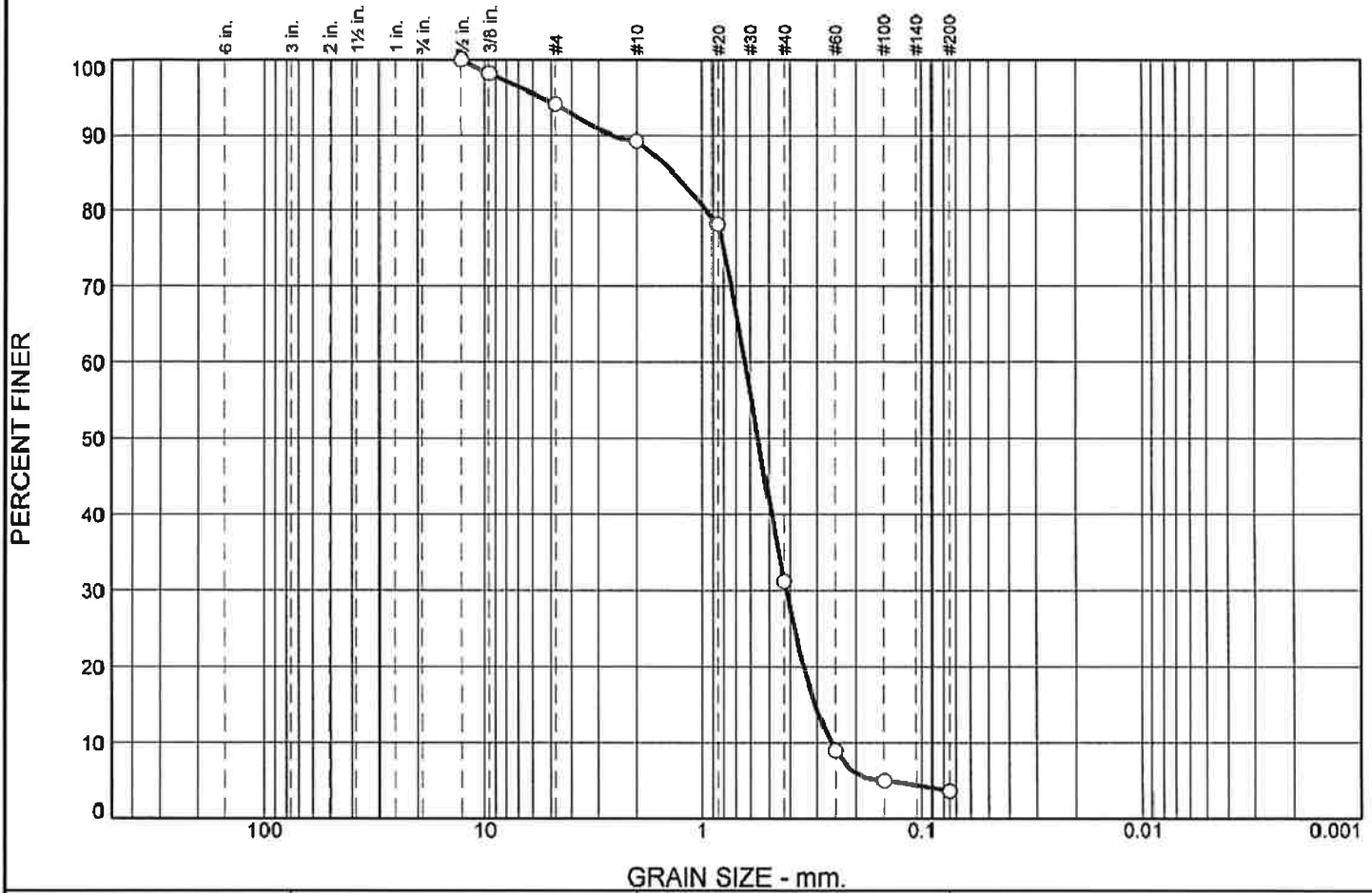
| | | |
|--------------------------|--------------------------|--------------------------|
| PL= | Atterberg Limits | PI= |
| | LL= | |
| | Coefficients | |
| D ₈₅ = 0.6726 | D ₆₀ = 0.3367 | D ₅₀ = 0.2538 |
| D ₃₀ = 0.1717 | D ₁₅ = 0.1167 | D ₁₀ = 0.0922 |
| C _u = 3.65 | C _c = 0.95 | |
| USCS= | Classification | AASHTO= |
| | Remarks | |

* (no specification provided)

Sample Number: S-3 Depth: 10-12 ft Date:

Source of Sample: B-18

Particle Size Distribution Report



| % +3" | % Gravel | | | % Sand | | | % Fines |
|-------|----------|--------|------|--------|--------|------|---------|
| | Coarse | Medium | Fine | Coarse | Medium | Fine | |
| 0.0 | 0.0 | 1.9 | 8.9 | 33.2 | 47.1 | 5.3 | 3.6 |

| SIEVE SIZE | PERCENT FINER | SPEC.* PERCENT | PASS? (X=NO) |
|------------|---------------|----------------|--------------|
| 1/2 | 100.0 | | |
| 3/8 | 98.1 | | |
| #4 | 94.1 | | |
| #10 | 89.2 | | |
| #20 | 78.2 | | |
| #40 | 31.2 | | |
| #60 | 8.9 | | |
| #100 | 5.0 | | |
| #200 | 3.6 | | |

Material Description

Brown, medium to coarse SAND, little Gravel, trace Silt.

Atterberg Limits

PL= LL= PI=

Coefficients

D₈₅= 1.3608 D₆₀= 0.6336 D₅₀= 0.5535
D₃₀= 0.4167 D₁₅= 0.3082 D₁₀= 0.2623
C_u= 2.42 C_c= 1.05

Classification

USCS= SP AASHTO= A-1-b

Remarks

* (no specification provided)

Sample Number: S-3 Depth: 3.5 ft. Date:

Source of Sample: TP-1

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Manchester, NH

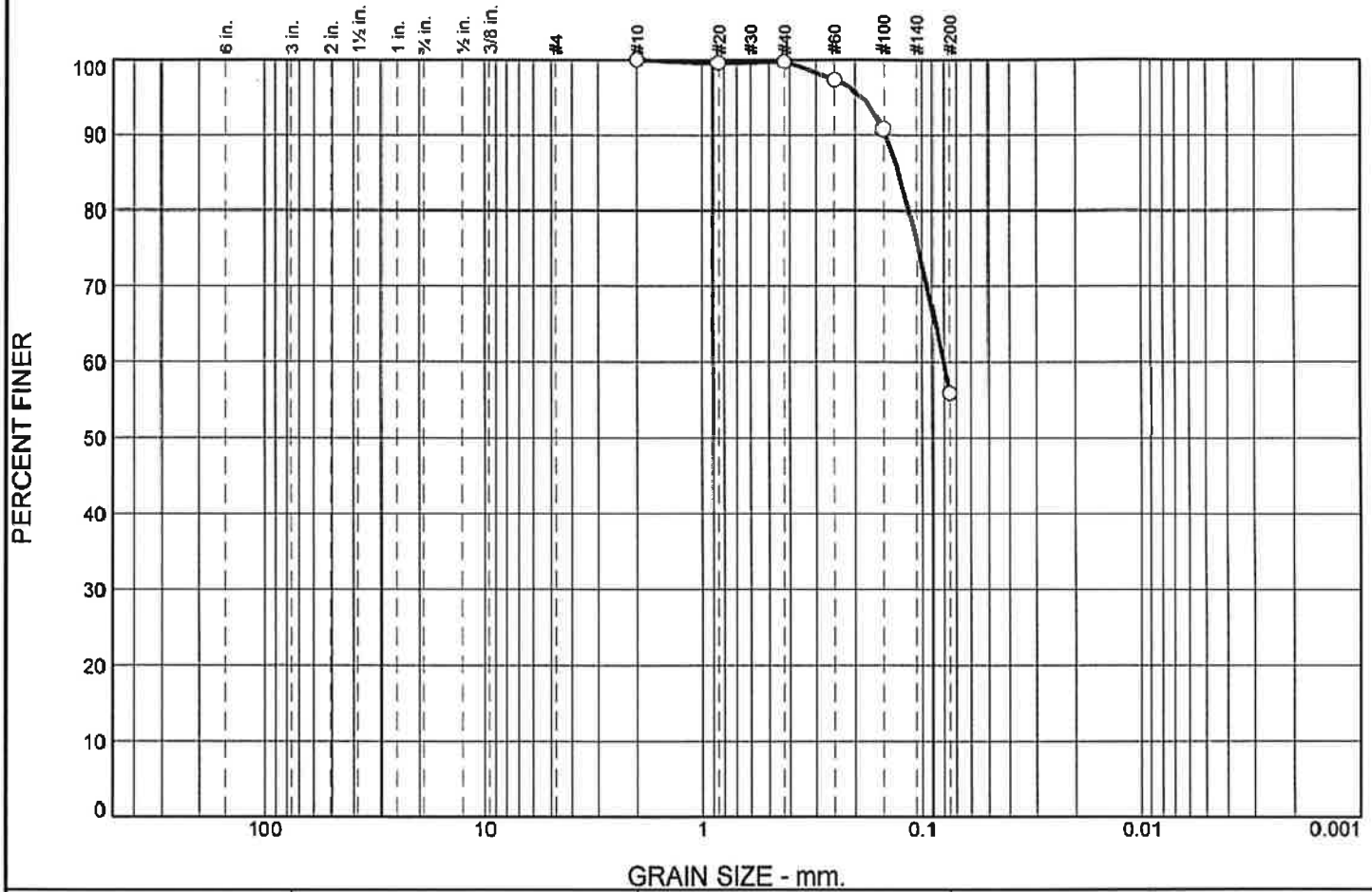
Client: W/S Development Associates, LLC

Project: River Place Hudson, NH

Project No: 24050.01

Figure

Particle Size Distribution Report



| % +3" | % Gravel | | | % Sand | | | % Fines |
|-------|----------|--------|------|--------|--------|------|---------|
| | Coarse | Medium | Fine | Coarse | Medium | Fine | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 2.4 | 41.3 | 55.9 |

| SIEVE SIZE | PERCENT FINER | SPEC.* PERCENT | PASS? (X=NO) |
|------------|---------------|----------------|--------------|
| #10 | 100.0 | | |
| #20 | 99.6 | | |
| #40 | 99.7 | | |
| #60 | 97.2 | | |
| #100 | 90.7 | | |
| #200 | 55.9 | | |

Material Description

SILT and fine Sand.

Atterberg Limits

PL= LL= PI=

Coefficients

D₈₅= 0.1277 D₆₀= 0.0802 D₅₀=

D₃₀= D₁₅= D₁₀=

C_u= C_c=

Classification

USCS= ML AASHTO= A-4(0)

Remarks

* (no specification provided)

Sample Number: S-2 Depth: 1.5 ft. Date:

Source of Sample: TP-2

GZA GeoEnvironmental, Inc.

Manchester, NH

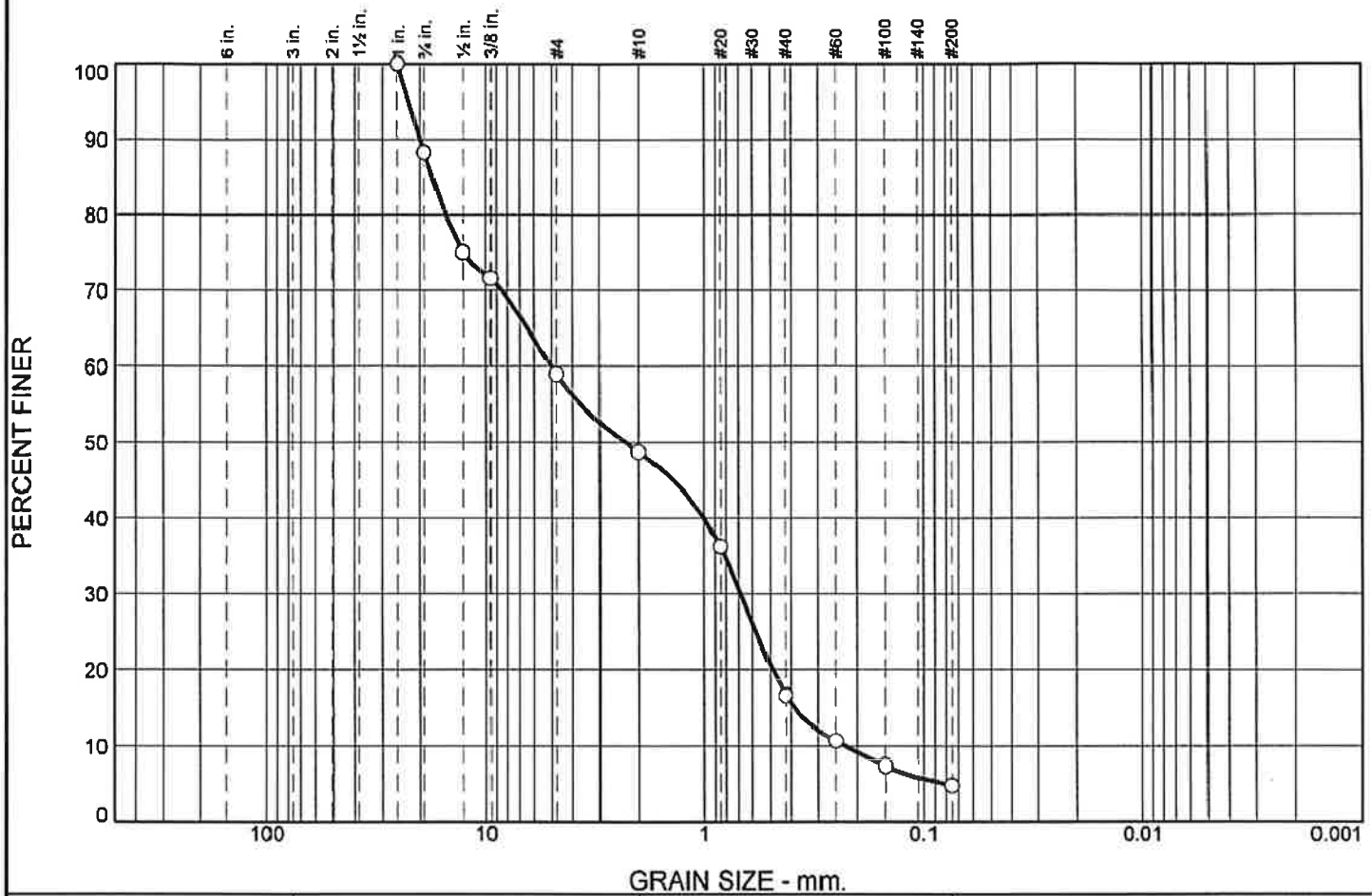
Client: W/S Development Associates, LLC

Project: River Place Hudson, NH

Project No: 24050.01

Figure

Particle Size Distribution Report



| % +3" | % Gravel | | | % Sand | | | % Fines |
|-------|----------|--------|------|--------|--------|------|---------|
| | Coarse | Medium | Fine | Coarse | Medium | Fine | |
| 0.0 | 0.0 | 28.4 | 22.9 | 22.8 | 15.2 | 6.0 | 4.7 |

| SIEVE SIZE | PERCENT FINER | SPEC.* PERCENT | PASS? (X=NO) |
|------------|---------------|----------------|--------------|
| 1 | 100.0 | | |
| 3/4 | 88.2 | | |
| 1/2 | 75.0 | | |
| 3/8 | 71.6 | | |
| #4 | 59.0 | | |
| #10 | 48.7 | | |
| #20 | 36.2 | | |
| #40 | 16.6 | | |
| #60 | 10.7 | | |
| #100 | 7.4 | | |
| #200 | 4.7 | | |

Material Description

Brown, GRAVEL and medium to coarse Sand, trace Silt.

PL= **Atterberg Limits** PI=

LL= **Coefficients** D₅₀= 2.3135

D₈₅= 17.5571 D₆₀= 5.0270 D₁₅= 0.3886 D₁₀= 0.2269

D₃₀= 0.6841 C_c= 0.41

C_u= 22.16

USCS= SP **Classification** AASHTO= A-1-a

Remarks

* (no specification provided)

Sample Number: S-1
Source of Sample: TP-4

Depth: 0.5-6.5 ft.

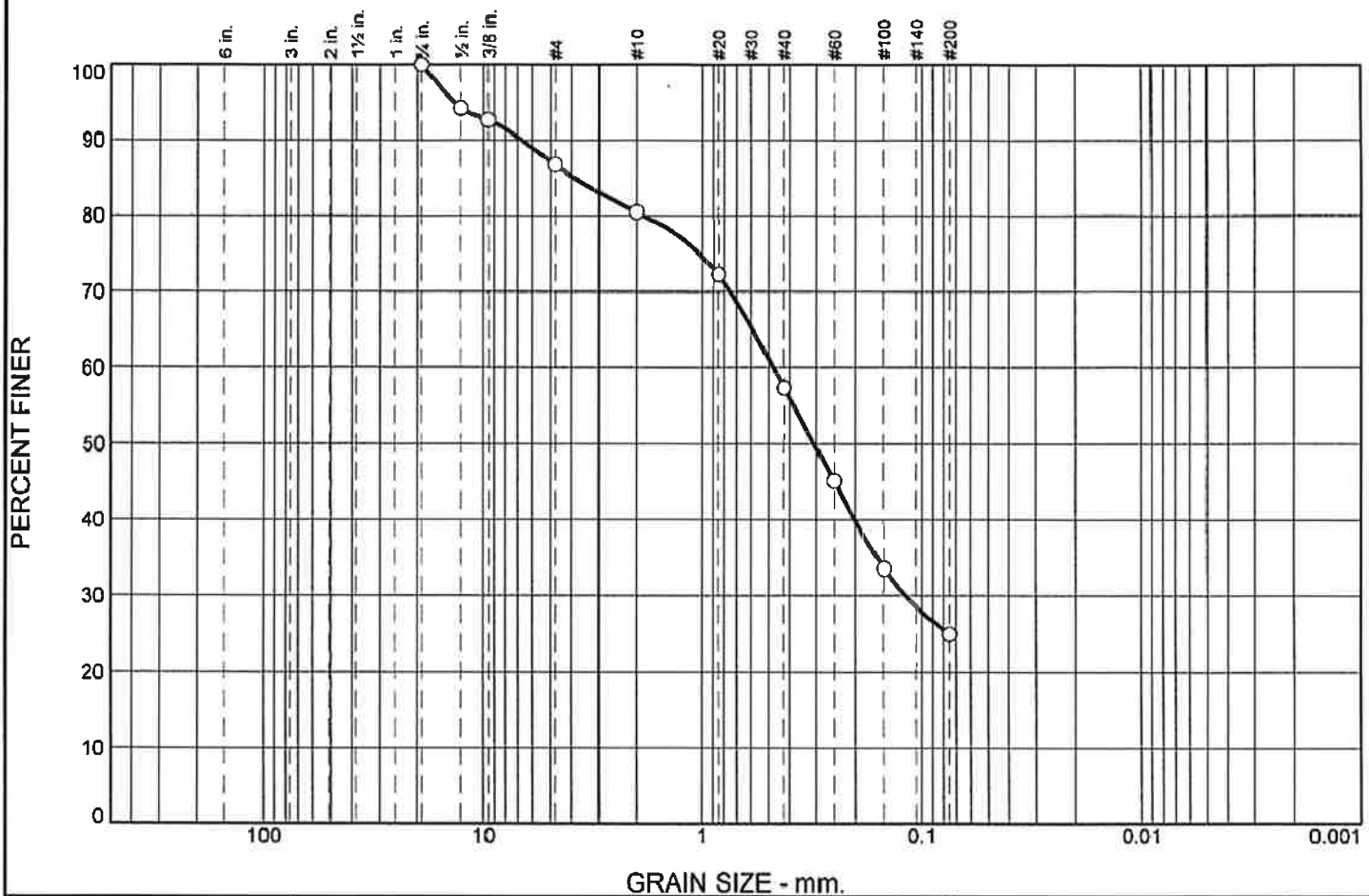
Date:

GZA GeoEnvironmental, Inc.
Manchester, NH

Client: W/S Development Associates, LLC
Project: River Place Hudson, NH
Project No: 24050.01

Figure

Particle Size Distribution Report



| % +3" | % Gravel | | | % Sand | | | % Fines |
|-------|----------|--------|------|--------|--------|------|---------|
| | Coarse | Medium | Fine | Coarse | Medium | Fine | |
| 0.0 | 0.0 | 7.4 | 12.2 | 15.0 | 20.4 | 20.1 | 24.9 |

| SIEVE SIZE | PERCENT FINER | SPEC.* PERCENT | PASS? (X=NO) |
|------------|---------------|----------------|--------------|
| 3/4 | 100.0 | | |
| 1/2 | 94.1 | | |
| 3/8 | 92.6 | | |
| #4 | 86.7 | | |
| #10 | 80.4 | | |
| #20 | 72.2 | | |
| #40 | 57.3 | | |
| #60 | 45.0 | | |
| #100 | 33.6 | | |
| #200 | 24.9 | | |

Material Description

Brown, fine to coarse SAND, some Silt, little Gravel.

| | | |
|--------------------------|--------------------------|--------------------------|
| PL= | Atterberg Limits | PI= |
| | LL= | |
| | Coefficients | |
| D ₈₅ = 3.9077 | D ₆₀ = 0.4758 | D ₅₀ = 0.3098 |
| D ₃₀ = 0.1192 | D ₁₅ = | D ₁₀ = |
| C _u = | C _c = | |
| Classification | | |
| USCS= SM | | AASHTO= A-2-4(0) |
| Remarks | | |

* (no specification provided)

Sample Number: S-1
Source of Sample: TP-5A

Depth: 0-2.5 ft.

Date:

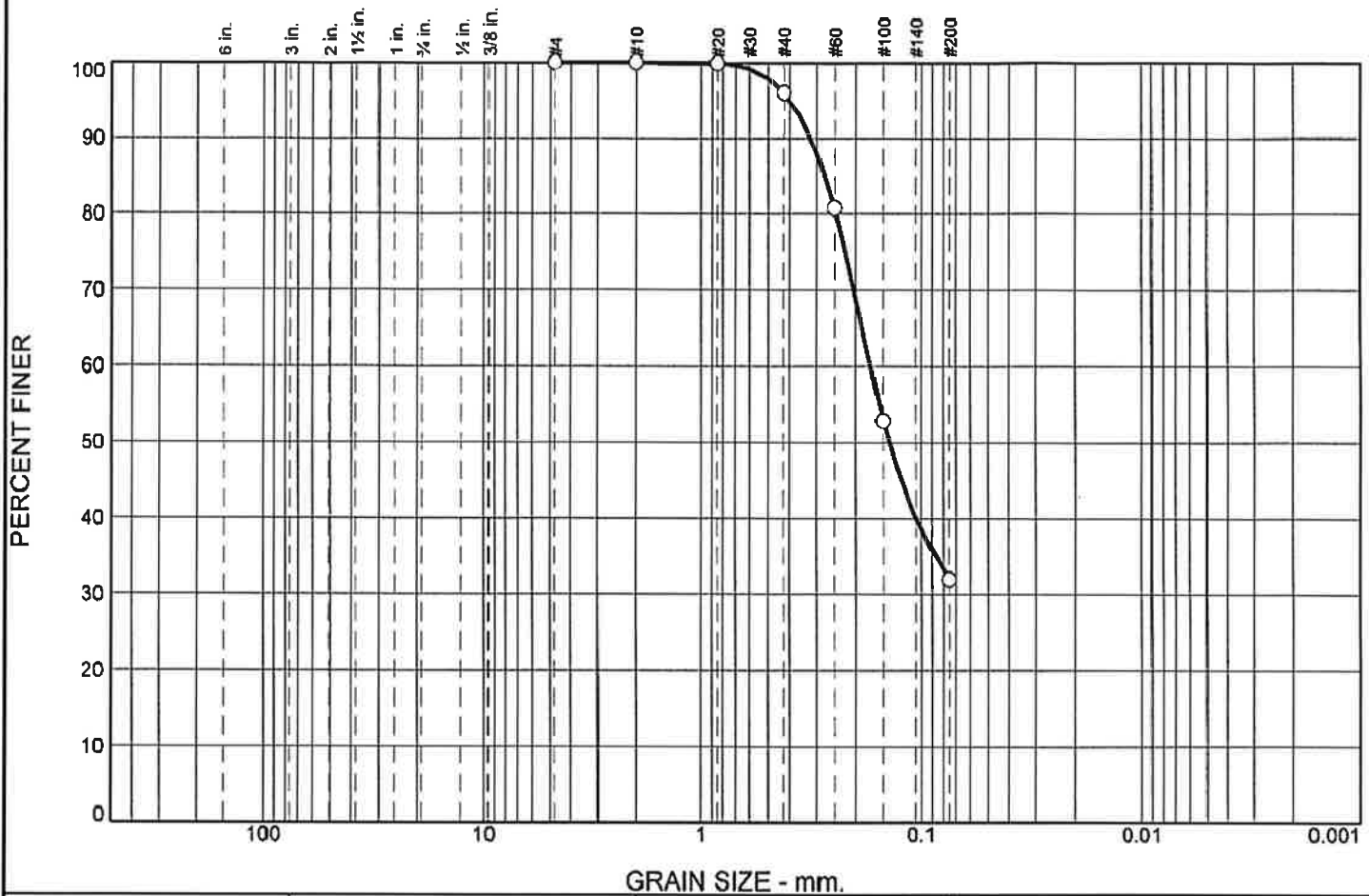
GZA GeoEnvironmental, Inc.
Manchester, NH

Client: W/S Development Associates, LLC
Project: River Place Hudson, NH

Project No: 24050.01

Figure

Particle Size Distribution Report



| % +3" | % Gravel | | | % Sand | | | % Fines |
|-------|----------|--------|------|--------|--------|------|---------|
| | Coarse | Medium | Fine | Coarse | Medium | Fine | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 18.5 | 48.7 | 32.0 |

| SIEVE SIZE | PERCENT FINER | SPEC.* PERCENT | PASS? (X=NO) |
|------------|---------------|----------------|--------------|
| #4 | 100.0 | | |
| #10 | 100.0 | | |
| #20 | 99.9 | | |
| #40 | 96.0 | | |
| #60 | 80.7 | | |
| #100 | 52.8 | | |
| #200 | 32.0 | | |

Material Description

Brown, fine to medium SAND, some Silt.

PL= **Atterberg Limits** PI=

LL= LL= PI=

Coefficients

D₈₅= 0.2762 D₆₀= 0.1719 D₅₀= 0.1410

D₃₀= D₁₅= D₁₀=

C_u= C_c=

USCS= SM **Classification** AASHTO= A-2-4(0)

Remarks

* (no specification provided)

Sample Number: S-2 Depth: 2-3 ft. Date:

Source of Sample: TP-6

GZA GeoEnvironmental, Inc.

Manchester, NH

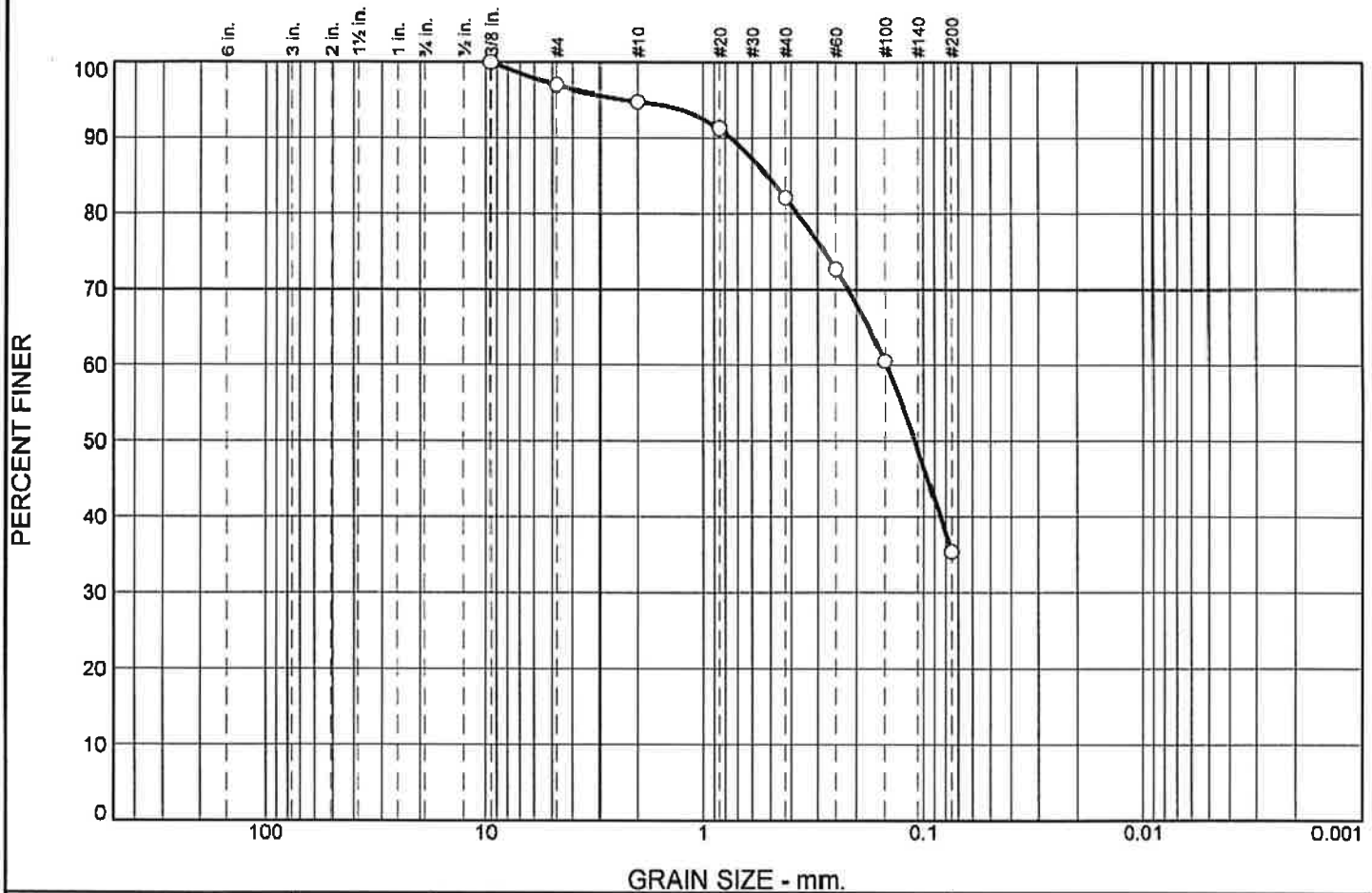
Client: W/S Development Associates, LLC

Project: River Place Hudson, NH

Project No: 24050.01

Figure

Particle Size Distribution Report



| % +3" | % Gravel | | | % Sand | | | % Fines |
|-------|----------|--------|------|--------|--------|------|---------|
| | Coarse | Medium | Fine | Coarse | Medium | Fine | |
| 0.0 | 0.0 | 0.0 | 5.3 | 7.5 | 14.5 | 37.3 | 35.4 |

| SIEVE SIZE | PERCENT FINER | SPEC.* PERCENT | PASS? (X=NO) |
|------------|---------------|----------------|--------------|
| 3/8 | 100.0 | | |
| #4 | 96.9 | | |
| #10 | 94.7 | | |
| #20 | 91.2 | | |
| #40 | 82.0 | | |
| #60 | 72.7 | | |
| #100 | 60.5 | | |
| #200 | 35.4 | | |

Material Description

Brown, fine to medium SAND and Silt, trace Gravel.

Atterberg Limits
 PL= LL= PI=

Coefficients
 D₈₅= 0.5149 D₆₀= 0.1474 D₅₀= 0.1095
 D₃₀= D₁₅= D₁₀=
 C_u= C_c=

Classification
 USCS= SM AASHTO= A-2-4(0)

Remarks

* (no specification provided)

Sample Number: S-2
Source of Sample: TP-9

Depth: 0.7-7 ft.

Date:

GZA GeoEnvironmental, Inc.

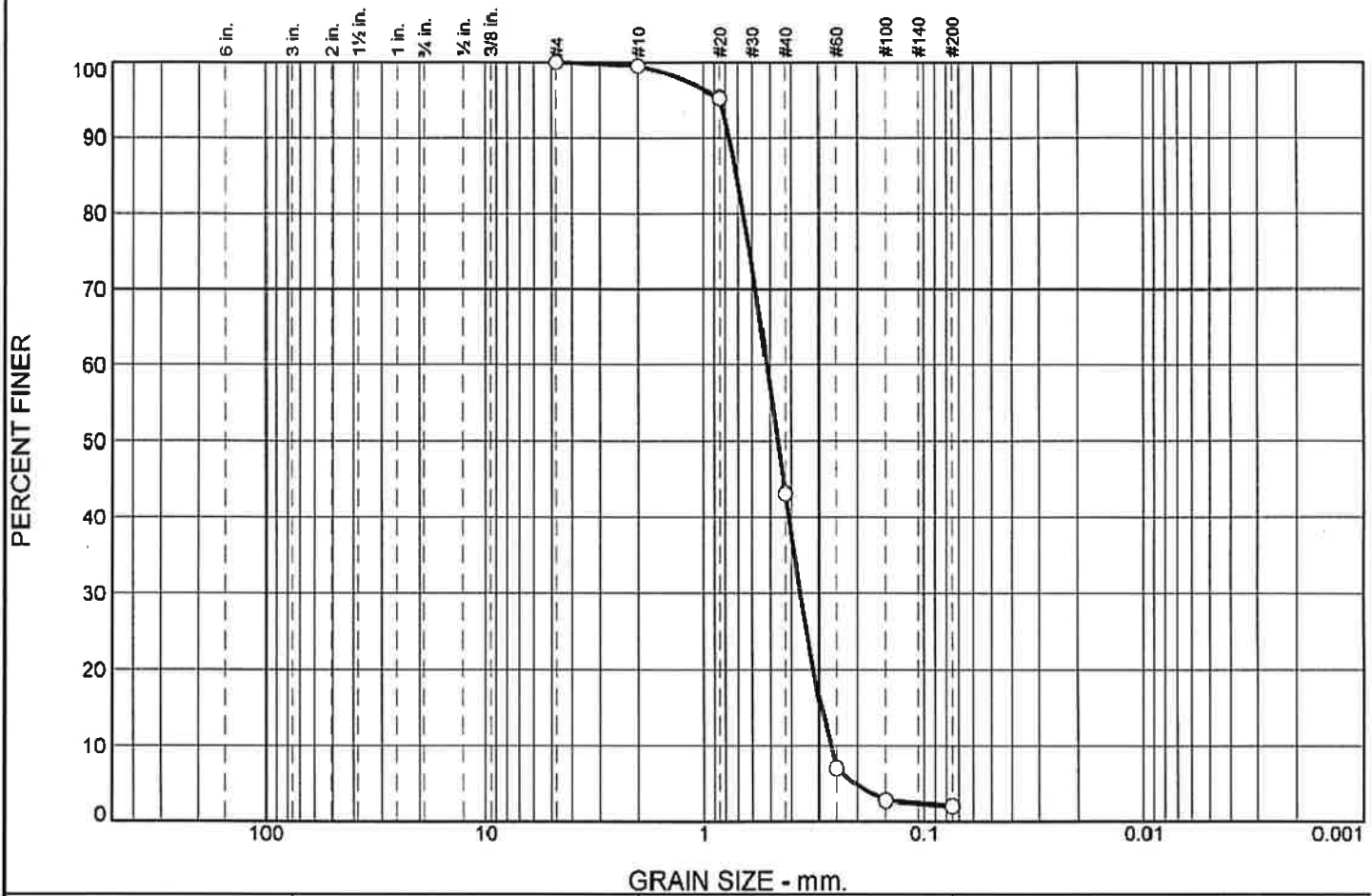
Manchester, NH

Client: W/S Development Associates, LLC
Project: River Place Hudson, NH

Project No: 24050.01

Figure

Particle Size Distribution Report



| % +3" | % Gravel | | | % Sand | | | % Fines |
|-------|----------|--------|------|--------|--------|------|---------|
| | Coarse | Medium | Fine | Coarse | Medium | Fine | |
| 0.0 | 0.0 | 0.0 | 0.5 | 26.7 | 65.7 | 5.1 | 2.0 |

| SIEVE SIZE | PERCENT FINER | SPEC.* PERCENT | PASS? (X=NO) |
|------------|---------------|----------------|--------------|
| #4 | 100.0 | | |
| #10 | 99.5 | | |
| #20 | 95.2 | | |
| #40 | 43.1 | | |
| #60 | 7.1 | | |
| #100 | 2.8 | | |
| #200 | 2.0 | | |

Material Description

Brown, medium to coarse SAND, trace Silt.

Atterberg Limits

PL= LL= PI=

Coefficients

D₈₅= 0.7078 D₆₀= 0.5155 D₅₀= 0.4600
D₃₀= 0.3638 D₁₅= 0.2944 D₁₀= 0.2681
C_u= 1.92 C_c= 0.96

Classification

USCS= SP AASHTO= A-1-b

Remarks

* (no specification provided)

Sample Number: S-3 Depth: 1.5-6.5 ft. Date:

Source of Sample: TP-13

| | | |
|-----------------------------------|---|--------|
| GZA GeoEnvironmental, Inc. | Client: W/S Development Associates, LLC | |
| | Project: River Place Hudson, NH | |
| Manchester, NH | Project No: 24050.01 | Figure |

APPENDIX C BORING LOGS

I:\LANGAN.COM\DATA\BOS\DATA\11510101\PROJECT DATA\DISCIPLINE\GEO\TECHNICAL\LOGS\151010101 ENTERPRISE BORINGS USE.GPJ... 7/22/2020 9:51:22 AM ... Report: Log - LANGAN

| | | | | | | | |
|--|--|--|--|---|--|--------------------------|--|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 135 (NGVD29) | | | |
| Drilling Company SoilTesting, Inc. | | | | Date Started 6/25/20 | | Date Finished 6/25/20 | |
| Drilling Equipment Truck Rig | | | | Completion Depth 22.5 ft | | Rock Depth 22.5 ft | |
| Size and Type of Bit 4-7/8in Tricone Roller Bit | | | | Number of Samples | | Disturbed | |
| Casing Diameter (in) N/A | | | | Casing Depth (ft) N/A | | Core | |
| Casing Hammer N/A | | | | Weight (lbs) N/A | | Drop (in) N/A | |
| Sampler 2-inch-diameter split spoon | | | | Water Level (ft.) First | | Completion | |
| Sampler Hammer Safety | | | | Weight (lbs) 140 | | Drop (in) 30 | |
| | | | | Drilling Foreman Mike Kennedy | | | |
| | | | | Field Engineer Taylor Sisti | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) |
|-----------------|------------|---|-------------|-------------|------|-------------|-----------------------|---|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | |
| | 135.0 | | 0 | S-1A | | 4 | 3 | Started Drilling at 6/25/2020 S-1 at 0ft |
| | 134.8 | 4" Brown fine-medium SAND, some silt, Some roots (dry) [TOPSOIL] | | | | | 5 | |
| | | Brown fine SAND, some silt, trace roots (dry) | 1 | S-1B | SS | 20 | 3 | S-2 at 2ft |
| | | Brown fine-medium SAND, some silt (dry) | | | | | 5 | |
| | | Brown fine-medium SAND, trace silt and SILT seams up to 2 inches thick (dry) | 2 | S-1C | | 10 | | |
| | | | 3 | S-2 | SS | 15 | 11 | Auger to 4ft |
| | | | | | | | 15 | S-3 at 4ft |
| | 131.0 | Brown fine-medium SAND, trace silt (dry) | 4 | | | 8 | | |
| | | | 5 | S-3 | SS | 24 | 12 | S-4 at 6ft |
| | | Brown fine-medium SAND, trace silt (dry) | 6 | | | 11 | | |
| | | | 7 | S-4 | SS | 18 | 13 | Auger to 8ft |
| | | | | | | | 15 | S-5 at 8ft |
| | 127.0 | Brown fine-medium SAND, trace silt, and SILT, trace clay seams 2-3 inches thick (moist) | 8 | | | 7 | | |
| | | | 9 | S-5A | SS | 14 | 17 | |
| | | | | | | | 18 | |
| | 125.5 | Brown fine-medium SAND, trace silt (moist) | 10 | S-5B | | 15 | 14 | S-6 at 10ft |
| | | Brown fine-medium SAND, trace silt, trace f-c gravel (moist) | 11 | S-6 | SS | 19 | 12 | |
| | | | | | | | 12 | |
| | | | 12 | | | | 15 | |
| | | | 13 | | | | | Auger to 15ft, easy drilling |
| | | | 14 | | | | | |
| | | Brown fine-coarse SAND, trace silt, trace f-c gravel (wet) | 15 | | | 7 | | S-7 at 15ft |
| | 119.0 | Brown silty fine-medium SAND, trace f-c gravel, trace weathered gravel fragments (wet) [TILL] | 16 | S-7A | SS | 18 | 9 | |
| | | | | | | | 51 | |
| | | | 17 | S-7B | | | 29 | |
| | | | 18 | | | | | Auger to 20ft, moderate drilling |
| | | | 19 | | | | | |
| | | | 20 | | | | | |

LANGAN

Log of Boring

A-B-BOR-02

Sheet

2

of

2

| Project | | Project No. | | | | | | |
|---------------------------|------------|--|-------------|-------------|------|-------------|------------------------|--|
| Hudson Logistics Center | | 151010101 | | | | | | |
| Location | | Elevation and Datum | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 135 (NGVD29) | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) |
| | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | |
| | 115.0 | Brown fine-medium SAND, some silt, trace f-c gravel, trace weathered gravel fragments (wet) [TILL] | 20 | | | | | S-8 at 20ft |
| | 113.0 | | 21 | S-8 | SS | 17 | 34 47 59 51 | |
| | | Bottom of Boring | 22 | | | | | Auger to 22.5ft, hard drilling Auger refusal at 22.5ft Bottom of boring at 6/25/2020 Boring backfilled with auger cuttings. |
| | | | 23 | | | | | |
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| | | | | | | | |
|---|--|--------------------------|--|---|--|----------------------------------|------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 132.5 (NGVD29) | | | |
| Drilling Company SoilTesting, Inc. | | | | Date Started 6/25/20 | | Date Finished 6/25/20 | |
| Drilling Equipment Truck Rig | | | | Completion Depth 13.5 ft | | Rock Depth 13.5 ft | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 7 | Undisturbed - |
| Casing Diameter (in) N/A | | Casing Depth (ft) N/A | | Water Level (ft.) First 9 | | Completion N/A | 24 HR. N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Mike Kennedy | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Taylor Sisti | | | |
| Sampler Hammer Safety | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) |
|-----------------|------------|--|-------------|-------------|------|-------------|-----------------------|--------------------|---|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/In | N-Value (Blows/ft) | |
| | 132.5 | | 0 | S-1A | | 4 | | | Started Drilling at 6/25/2020 S-1 at 0ft |
| | 132.1 | 5" Brown fine SAND, some silt, some roots (dry) [TOPSOIL] | 1 | S-1B | SS | 18 | 5 | 11 | |
| | | Brown fine SAND, some silt, trace roots (dry) | | | | | 6 | | |
| | 130.5 | Brown silty fine SAND (dry) | 2 | S-1C | | 4 | | | S-2 at 2ft |
| | | Brown SILT, some fine sand (dry) | | | | | 5 | | |
| | 129.0 | Brown fine SAND, some silt (dry) | 3 | S-2A | SS | 20 | 5 | 11 | Auger to 4ft |
| | | Brown fine SAND, trace silt and SILT, alternating layers 1-6 inches thick (moist) | 4 | S-2B | | 7 | | | S-3 at 4ft |
| | | Brown fine SAND, trace silt and SILT, alternating layers 1-4 inches thick (moist) | 5 | S-3 | SS | 17 | 5 | 12 | |
| | | | 6 | | | 6 | | | S-4 at 6ft |
| | 125.0 | Brown fine-medium SAND, trace silt (moist) | 7 | S-4A | SS | 18 | 8 | 19 | Auger to 8ft |
| | | Brown fine-medium SAND, trace silt (moist) | 8 | S-4B | | 17 | | | S-5 at 8ft |
| | 123.3 | Brown silty fine-medium SAND, trace f-c gravel, trace weathered gravel pieces (wet) [TILL] | 9 | S-5A | SS | 22 | 11 | 51 | |
| | | Brown silty fine-medium SAND, trace f-c gravel, trace weathered gravel pieces (wet) [TILL] | 10 | S-5B | | 37 | | | S-6 at 10ft |
| | 119.0 | Gray fine-medium SAND, some f-c gravel, trace silt, trace weathered gravel pieces (wet) [WEATHERED ROCK] | 11 | S-6 | SS | 17 | 41 | 103 | |
| | 118.8 | Inferred Top of Bedrock | 12 | | | 62 | | | |
| | | Bottom of Boring | 13 | | | 40 | | | Auger to 13.5ft, hard drilling, some light-medium rig chatter |
| | | | 14 | S-7 | SS | 3 | 50/3 | 50/3 | Auger refusal at 13.5ft |
| | | | 15 | | | | | | Auger refusal at 13.5ft S-7 at 13.5ft, spoon bouncing |
| | | | 16 | | | | | | Bottom of boring at 6/25/2020 11:53 AM |
| | | | 17 | | | | | | Boring backfilled with auger cuttings. |
| | | | 18 | | | | | | |
| | | | 19 | | | | | | |
| | | | 20 | | | | | | |

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|--|--|---------------------|--|---|--|----------------------------------|-------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 144 (NGVD29) | | | |
| Drilling Company Seaboard Drilling, Inc | | | | Date Started 7/2/20 | | Date Finished 7/2/20 | |
| Drilling Equipment Mobile Drill B53 | | | | Completion Depth 25 ft | | Rock Depth 21 ft | |
| Size and Type of Bit 3-7/8in Tricone Roller Bit | | | | Number of Samples | | Disturbed 8 | Undisturbed - |
| Casing Diameter (in) 4in | | | | Casing Depth (ft) 8 | | Water Level (ft.) First 10 | Completion N/A |
| Casing Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | Drilling Foreman Jeff Nitsch | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Reid Balkind | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

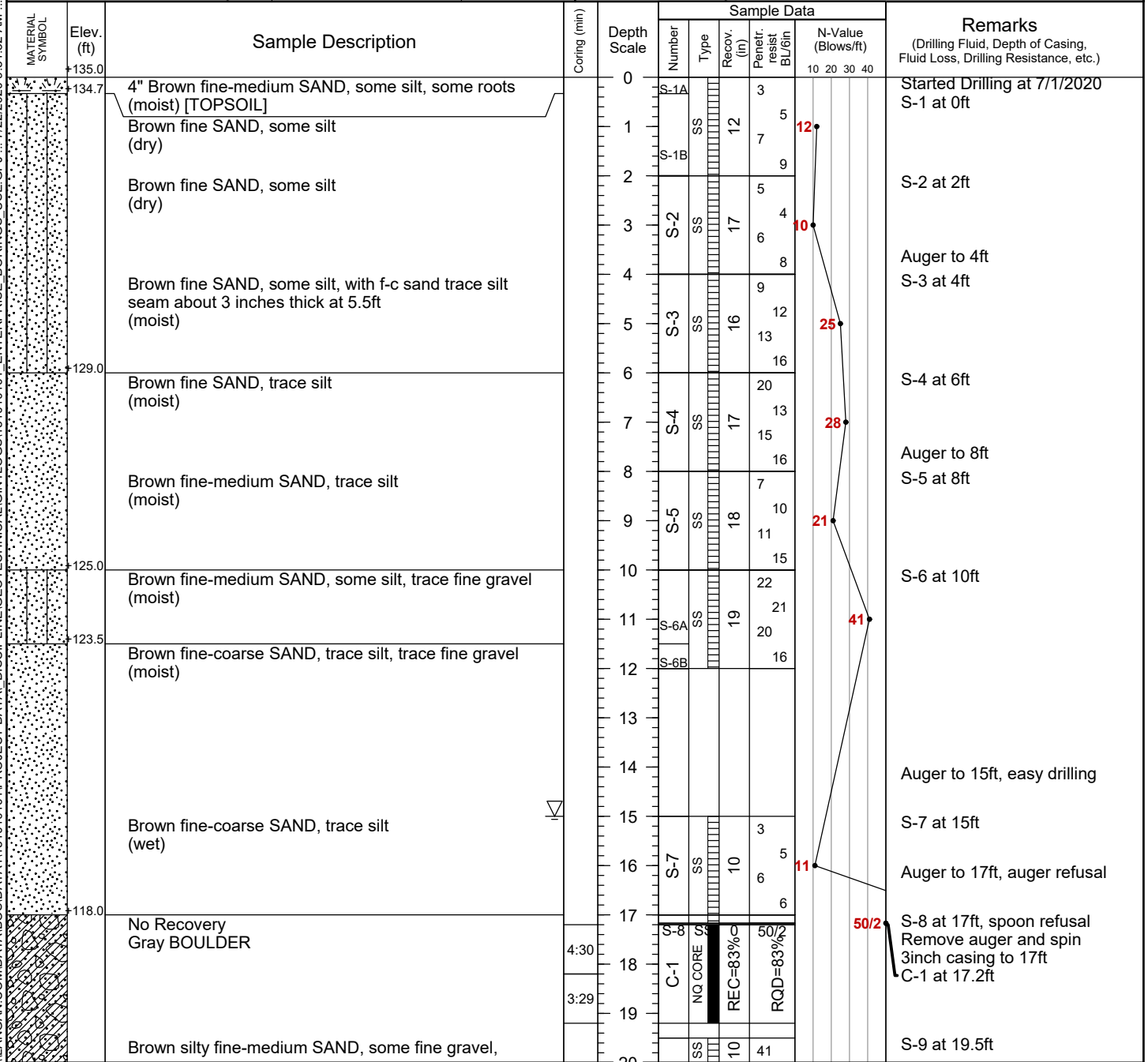
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Coring (min) | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|--|--------------|-------------|--------|------|-------------|-----------------------|---|---|
| | | | | Depth Scale | Number | Type | Recov. (in) | Penetr. resist. Bl/In | | N-Value (Blows/ft) |
| | 144.0 | | | 0 | S-1A | SS | 4 | 4 | 9 | Started Drilling at 7/2/2020 S-1 at 0ft |
| | 143.7 | 4" Dark brown fine-medium SAND, trace silt, trace coarse gravel, trace roots (dry) [TOPSOIL] | | 1 | S-1B | SS | 12 | 4 | | |
| | | Brown fine-medium SAND, trace silt, trace f-c gravel (dry) | | 2 | | | 4 | | | S-2 at 2ft |
| | | Brown fine-medium SAND, trace silt, trace f-c gravel (dry) | | 3 | S-2 | SS | 14 | 5 | 13 | |
| | | | | 4 | | | 6 | | | |
| | 140.0 | Brown fine-medium SAND, some silt, some fine gravel (moist)[TILL] | | 5 | S-3 | SS | 16 | 19 | 61 | Drive casing to 4ft and washout with water S-3 at 4ft |
| | | | | 6 | | | 16 | 28 | | |
| | | Brown fine-medium SAND, some silt, some fine gravel (moist)[TILL] | | 7 | S-4 | SS | 15 | 27 | 77 | S-4 at 6ft |
| | | | | 8 | | | 15 | 35 | | |
| | | Brown fine-medium SAND, some silt, some fine gravel, trace weathered rock fragments (wet)[TILL] | | 9 | S-5 | SS | 14 | 42 | 91 | Drive casing to 8ft and washout with water S-5 at 8ft |
| | | | | 10 | | | 14 | 29 | | |
| | | Brown fine-medium SAND, some silt, some f-c gravel, trace weathered rock fragments (moist)[TILL] | | 11 | S-6 | SS | 14 | 49 | 122 | S-6 at 10ft |
| | | | | 12 | | | 14 | 59 | | |
| | | | | 13 | | | | 56 | | |
| | | | | 14 | | | | 61 | | |
| | | | | 15 | S-7 | SS | 10 | 61 | 50/2 | Open hole drilling to 15ft and washout with water, Hard drilling S-7 at 15ft |
| | | | | 16 | | | | 70 | | |
| | | | | 17 | | | | 90 | | |
| | | | | 18 | | | | 50/2 | | |
| | | | | 19 | | | | | | |
| | | | | 20 | | | | | | |

| Project | | Project No. | | | | | | | | |
|---------------------------|------------|---|--------------|-------------|-------------|---------|------------------|------------------------|---|---|
| Hudson Logistics Center | | 151010101 | | | | | | | | |
| Location | | Elevation and Datum | | | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 144 (NGVD29) | | | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Coring (min) | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
| | | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | | N-Value (Blows/ft) |
| | 124.0 | Brown fine-medium SAND, some silt (wet) | | 20 | S-8 | SS | 6 | 12 70/4 | 10 20 30 40 | Drill to 20ft and washout with water S-8 at 20ft C-1 at 21ft |
| | 123.0 | Light gray to dark gray SCHIST; fine to medium grained; moderately weathered; very close to close fracture spacing; fractures moderately dipping to near horizontal; strong; rock quality poor; [BEDROCK] | 5:01 | 21 | C-1 | NQ CORE | REC=43"/48" =90% | RQD=20"/48" =42% | 70/4 | |
| | 119.0 | Bottom of Boring | 9:29 | 22 | | | | | | Bottom of boring at 7/2/2020 Boring backfilled with soil cuttings. |
| | | | 14:08 | 23 | | | | | | |
| | | | 12:13 | 24 | | | | | | |
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|--|--|-------------------------|--|---|--|----------------------------------|--|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 135 (NGVD29) | | | |
| Drilling Company SoilTesting, Inc. | | | | Date Started 7/1/20 | | Date Finished 7/1/20 | |
| Drilling Equipment Truck Rig | | | | Completion Depth 21.5 ft | | Rock Depth N/E | |
| Size and Type of Bit Hollow Stem Auger and 3-7/8in Tricone Roller Bit | | | | Number of Samples Disturbed 9 Undisturbed - Core 1 | | | |
| Casing Diameter (in) 3in | | Casing Depth (ft) 17 | | Water Level (ft.) First 15 Completion N/A | | 24 HR. N/A | |
| Casing Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | Drilling Foreman Mike Kennedy | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Taylor Sisti | | | |
| Sampler Hammer Safety | | Weight (lbs) 140 | | Drop (in) 30 | | | |



| Project | | Project No. | | | | | | | | | |
|---------------------------|------------|---|--------------|-------------|-------------|------|-------------|------------------------|---|--------------------|----|
| Hudson Logistics Center | | 151010101 | | | | | | | | | |
| Location | | Elevation and Datum | | | | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 135 (NGVD29) | | | | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Coring (min) | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | | |
| | | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | | N-Value (Blows/ft) | |
| | | | | | | | | | 10 20 30 40 | | |
| | +115.0 | some weathered rock fragments (wet)[TILL] | | 20 | | | | | | | |
| | +113.5 | | | 21 | S-9 | SS | 10 | 24 | | | 59 |
| | | 22 | | | | | | | | | |
| | | Bottom of Boring | | 23 | | | | | | | |
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| | | | | | | | |
|---|--|--------------------------|--|---|--|---------------------------------|------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 131.5 (NGVD29) | | | |
| Drilling Company Seaboard Drilling, Inc | | | | Date Started 7/1/20 | | Date Finished 7/1/20 | |
| Drilling Equipment Mobile Drill B53 | | | | Completion Depth 25 ft | | Rock Depth 25 ft | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples 9 | | Disturbed 9 | Undisturbed - |
| Casing Diameter (in) N/A | | Casing Depth (ft) N/A | | Water Level (ft.) First 9.5 | | Completion N/A | 24 HR. N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Jeff Nitsch | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Reid Balkind | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|---|-------------|-------------|------|-------------|-----------------------|--------------------|---|---|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | N-Value (Blows/ft) | | |
| | 131.5 | | 0 | S-1A | SS | 19 | 1 | 1 | 10 | Started Drilling at 7/1/2020 S-1 at 0ft |
| | 131.2 | 4" Dark brown fine-medium SAND, trace silt, trace roots (dry) [TOPSOIL] | 1 | S-1B | SS | 19 | 1 | 2 | 10 | |
| | | Brown fine-medium SAND, some silt, trace fine gravel (dry) | 2 | | | | 2 | | | S-2 at 2ft |
| | | Brown fine-medium SAND, some silt, trace fine gravel (dry) | 3 | S-2 | SS | 18 | 2 | 6 | 10 | |
| | | Brown silty f-m SAND, trace fine gravel (moist) | 4 | | | | 3 | | | Auger to 4ft S-3 at 4ft |
| | | Brown silty f-m SAND, trace fine gravel (moist) | 5 | S-3 | SS | 16 | 3 | 7 | 10 | |
| | | Brown silty f-m SAND, trace fine gravel (moist) | 6 | | | | 3 | | | S-4 at 6ft |
| | | Brown fine-coarse SAND, some silt (wet) | 7 | S-4 | SS | 18 | 5 | 10 | 10 | |
| | | Brown fine-coarse SAND, some silt (wet) | 8 | | | | 5 | | | Auger to 8ft S-5 at 8ft |
| | | Brown fine-coarse SAND, some silt, trace f-c gravel (wet) | 9 | S-5 | SS | 22 | 5 | 11 | 10 | |
| | | Brown fine-coarse SAND, some silt, trace f-c gravel (wet) | 10 | | | | 3 | | | S-6 at 10ft |
| | | Brown fine-coarse SAND, trace silt, trace f-c gravel (wet) | 11 | S-6 | SS | 20 | 5 | 12 | 10 | |
| | | | 12 | | | | 5 | | | |
| | | | 13 | | | | | | | |
| | | | 14 | | | | | | | |
| | | | 15 | | | | 2 | | | Auger to 15ft. Easy drilling S-7 at 15ft |
| | | | 16 | S-7 | SS | 15 | 2 | 7 | 10 | |
| | | | 17 | | | | 5 | | | |
| | | | 18 | | | | | | | |
| | | | 19 | | | | | | | |
| | | | 20 | | | | | | | |

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| Project | | Project No. | | | | | | |
|---------------------------|------------|--|-------------|-------------|------|-------------|------------------------|---|
| Hudson Logistics Center | | 151010101 | | | | | | |
| Location | | Elevation and Datum | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 131.5 (NGVD29) | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) |
| | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | |
| | +111.5 | Brown fine-coarse SAND, trace silt, trace f-c gravel (wet) | 20 | | | | 12 | Auger to 20ft. Easy drilling S-8 at 20ft |
| | +110.4 | Brown fine-medium SAND, some silt, trace f-c gravel, trace weathered rock fragments (wet) [TILL] | 21 | S-8A | SS | 17 | 17 | |
| | | | 22 | S-8B | | | 20 | |
| | | Brown fine-medium SAND, some silt, trace f-c gravel, trace weathered rock fragments (wet) [TILL] | 23 | | | | | Auger to 25t. Moderate drilling S-9 at 25ft Auger and spoon refusal encountered at 25ft. Bottom of boring at 7/1/2020 Boring backfilled with auger cuttings. |
| | | Inferred Top of Bedrock | 24 | | | | | |
| | +106.3 | Bottom of Boring | 25 | S-9 | SS | 3 | 50/3 | |
| | | | 26 | | | | | |
| | | | 27 | | | | | |
| | | | 28 | | | | | |
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|---|--|---------------------|--|---|--|----------------------------------|-------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 130 (NGVD29) | | | |
| Drilling Company SoilTesting, Inc. | | | | Date Started 6/22/20 | | Date Finished 6/23/20 | |
| Drilling Equipment CME Truck-Mounted Drill Rig | | | | Completion Depth 29 ft | | Rock Depth 29 ft | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 9 | Undisturbed - |
| Casing Diameter (in) N/A | | | | Casing Depth (ft) N/A | | Water Level (ft.) First 9 | Completion N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman John Knepple | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Kenneth Idem | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

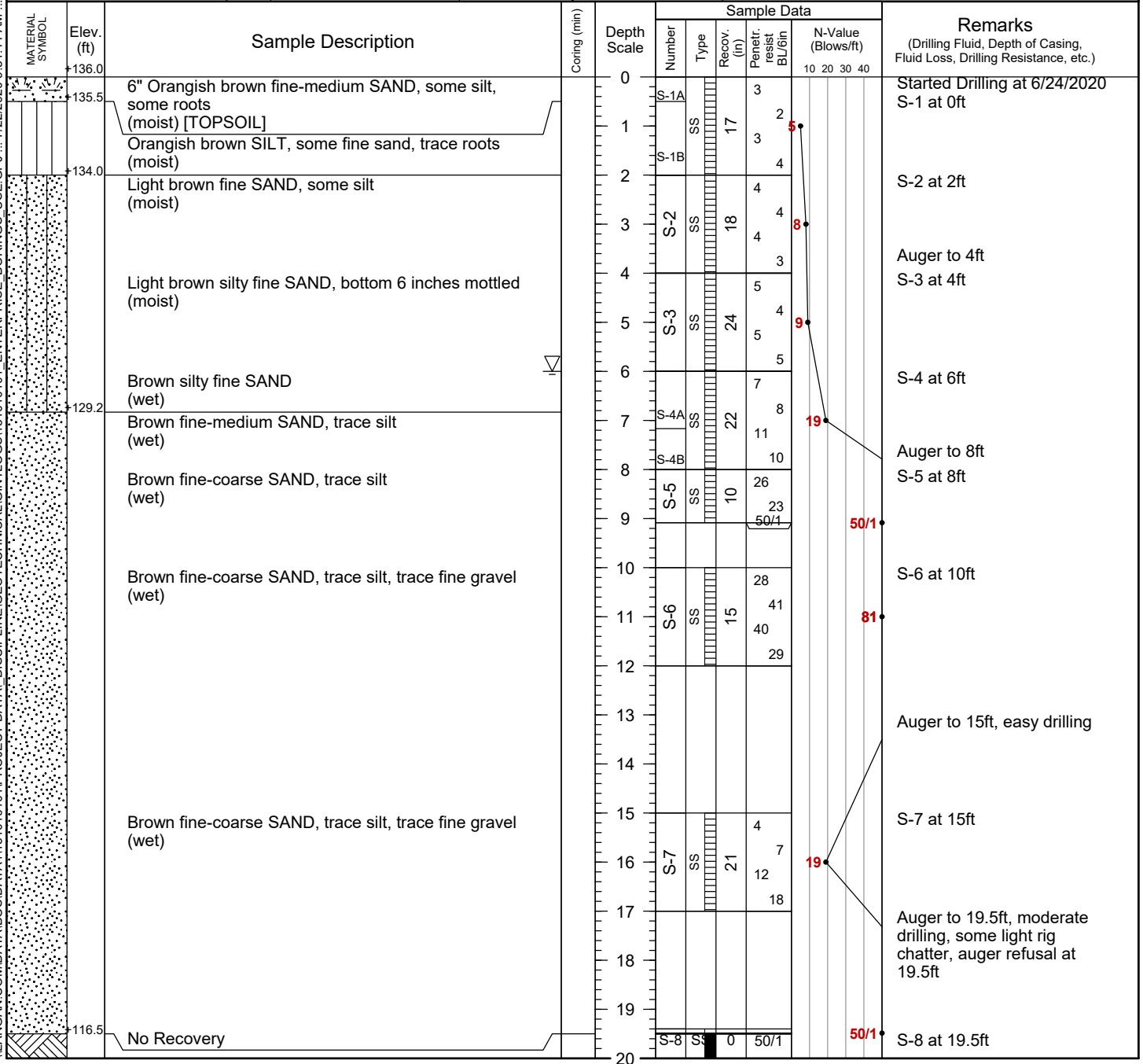
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|---|-------------|-------------|------|-------------|-----------------------|--------------------|---|-------------------------------|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | N-Value (Blows/ft) | | |
| | 130.0 | | 0 | | | | | | | Started Drilling at 6/22/2020 |
| | 129.5 | 6" Dark brown fine SAND, some silt, trace roots (dry) [TOPSOIL] | | S-1A | | | 2 | | | S-1 at 0ft |
| | | Light brown silty fine SAND, trace roots (dry) | 1 | S-1B | SS | 10 | 3 | 8 | | |
| | | Light brown fine SAND, some silt (dry) | 2 | | | | 5 | | | S-2 at 2ft |
| | | Light brown fine-medium SAND, trace silt (moist) | 3 | S-2 | SS | 18 | 3 | 7 | | Auger to 4ft, Easy Augering |
| | | Light brown silty fine-medium SAND (moist) | 4 | | | | 3 | | | S-3 at 4ft |
| | | Light brown fine SAND, some silt (wet) | 5 | S-3 | SS | 12 | 5 | 8 | | |
| | | Brown medium-coarse SAND, trace silt, trace gravel (wet) | 6 | | | | 3 | | | S-4 at 6ft |
| | | Light brown fine SAND, trace silt (wet) | 7 | S-4 | SS | 13 | 7 | 12 | | Auger to 8ft, Easy Augering |
| | | Brown medium-coarse SAND, trace silt, trace gravel (wet) | 8 | | | | 7 | | | S-5 at 8ft |
| | | Light brown fine SAND, trace silt (wet) | 9 | S-5 | SS | 13 | 6 | 12 | | |
| | | Brown medium-coarse SAND, trace silt, trace gravel (wet) | 10 | | | | 6 | | | S-6 at 10ft |
| | | Light brown fine SAND, trace silt (wet) | 11 | S-6A | SS | 21 | 5 | 9 | | |
| | | Brown medium-coarse SAND, trace silt, trace gravel (wet) | 12 | S-6B | | | 4 | | | Auger to 15ft, Easy Augering |
| | | | 13 | | | | 5 | | | |
| | | | 14 | | | | | | | |
| | | Brown fine-coarse SAND, some fine gravel, trace silt (wet) | 15 | | | | 6 | | | S-7 at 15ft |
| | | | 16 | S-7 | SS | 20 | 4 | 14 | | |
| | | | 17 | | | | 10 | | | Auger to 20ft, Easy Augering |
| | | | 18 | | | | 35 | | | |
| | | | 19 | | | | | | | |
| | | | 20 | | | | | | | |

| Project | | Project No. | | | | | | | | |
|---------------------------|------------|--|--|-------------|------|-------------|------------------------|---|--|--|
| Hudson Logistics Center | | 151010101 | | | | | | | | |
| Location | | Elevation and Datum | | | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 130 (NGVD29) | | | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | | |
| | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | | N-Value (Blows/ft) | |
| | 110.0 | Brown fine-coarse SAND, some fine gravel, trace silt (wet) | 20 | | | | 5 | | S-8 at 20ft | |
| | | | 21 | S-8 | SS | 12 | 4 | 7 | | Auger to 25ft, Hard Augering, Heavy Chattering |
| | | | | | | | 3 | | | |
| | | | 22 | | | | 3 | | | |
| | | | | 23 | | | | | | |
| | | | | 24 | | | | | | |
| | | | Brown fine-coarse SAND, some fine gravel, trace silt (wet) | 25 | | | | 18 | | S-9 at 25ft |
| | | | | 26 | S-9 | SS | 11 | 44 | 83 | Auger to 30ft, Hard Augering, Heavy Chattering |
| | | | | | | | | 39 | | |
| | | | | 27 | | | | 48 | | |
| | | | 28 | | | | | | | |
| | 101.0 | Inferred Top of Bedrock | 29 | | | | | | Auger Refusal at 29ft, Hole collapsed, unable to retrieve spoon Bottom of boring at 6/23/2020 Boring backfilled with auger cuttings. | |
| | | Bottom of Boring | 30 | | | | | | | |
| | | | 31 | | | | | | | |
| | | | 32 | | | | | | | |
| | | | 33 | | | | | | | |
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|---|--|--|---|--|--------------------------|
| Project Hudson Logistics Center | | | Project No. 151010101 | | |
| Location 59 Steele Road, Hudson NH | | | Elevation and Datum Elev. + 136 (NGVD29) | | |
| Drilling Company SoilTesting, Inc. | | | Date Started 6/24/20 | | Date Finished 6/24/20 |
| Drilling Equipment Truck Rig | | | Completion Depth 24.5 ft | | Rock Depth 19.5 ft |
| Size and Type of Bit 4in Hollow Stem Auger | | | Number of Samples | | Disturbed 8 |
| Casing Diameter (in) N/A | | | Casing Depth (ft) N/A | | Undisturbed - |
| Casing Hammer N/A | | | Weight (lbs) N/A | | Drop (in) N/A |
| Sampler 2-inch-diameter split spoon | | | Water Level (ft.) First 6 | | Completion N/A |
| Sampler Hammer Safety | | | Weight (lbs) 140 | | Drop (in) 30 |
| | | | Drilling Foreman Mike Kennedy | | |
| | | | Field Engineer Taylor Sisti | | |



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| Project | | Project No. | | | | | | | | | | |
|---------------------------|------------|--|--------------|-------------|-------------|---------|------------------|------------------------|--|---|---|----|
| Hudson Logistics Center | | 151010101 | | | | | | | | | | |
| Location | | Elevation and Datum | | | | | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 136 (NGVD29) | | | | | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Coring (min) | Depth Scale | Sample Data | | | | Remarks <small>(Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)</small> | | | |
| | | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | | N-Value (Blows/ft) | | |
| | 116.0 | Gray to black SCHIST; fine to medium grained; slightly to moderately weathered; extremely close to very close fracture spacing; fractures steeply dipping to near horizontal; strong; rock quality very poor [BEDROCK] | 5:24 | 20 | C-1 | NQ CORE | REC=33"/60" =55% | RQD=0"/60" =0% | N-Value (Blows/ft) | | Removed auger, install 3-inch casing to 19.5ft, clean out casing. C-1 at 19.5ft | |
| | 1:37 | | 21 | 10 | | | | | 20 | 30 | | 40 |
| | 2:36 | | 22 | | | | | | | | | |
| | 2:29 | | 23 | | | | | | | | | |
| | 3:02 | | 24 | | | | | | | | | |
| | 111.5 | Bottom of Boring | | 25 | | | | | | Bottom of boring at 6/24/2020 Boring backfilled with auger cuttings. | | |
| | | | | 26 | | | | | | | | |
| | | | | 27 | | | | | | | | |
| | | | | 28 | | | | | | | | |
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|---|--|---------------------|--|---|--|----------------------------------|-------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 136 (NGVD29) | | | |
| Drilling Company SoilTesting, Inc. | | | | Date Started 6/23/20 | | Date Finished 6/24/20 | |
| Drilling Equipment Truck Rig | | | | Completion Depth 17 ft | | Rock Depth 17 ft | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 8 | Undisturbed - |
| Casing Diameter (in) N/A | | | | Casing Depth (ft) N/A | | Water Level (ft.) First 14 | Completion N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Mike Kennedy | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Taylor Sisti | | | |
| Sampler Hammer Safety | | Weight (lbs) 140 | | Drop (in) 30 | | | |

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| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|--|-------------|-------------|------|-------------|-----------------------|--------------------|---|--|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | N-Value (Blows/ft) | | |
| | 136.0 | | 0 | | | | | | | Started Drilling at 6/23/2020 S-1 at 0ft |
| | 135.4 | 8" Orangish brown fine-medium SAND, some silt, some roots (dry) [TOPSOIL] | 1 | S-1A | SS | 14 | 5 | 11 | | |
| | | Orangish brown fine-medium SAND, some silt, trace fine gravel, trace roots (dry) | 2 | S-1B | SS | | 4 | | | S-2 at 2ft |
| | 133.0 | Light brown fine-medium SAND, some silt, trace fine gravel (dry) | 3 | S-2A | SS | 16 | 4 | 8 | | |
| | | Light brown fine-medium SAND, trace silt (dry) | 4 | S-2B | SS | | 4 | | | Auger to 4ft |
| | | Light brown fine-coarse SAND, trace silt, trace f-c gravel (moist) | 5 | S-3 | SS | 18 | 13 | 27 | | |
| | | Brown fine-coarse SAND, some f-c gravel, trace silt (moist) | 6 | S-4 | SS | 17 | 17 | | | S-4 at 6ft |
| | | Brown fine-coarse SAND, some f-c gravel, trace silt (moist) | 7 | S-4 | SS | 17 | 20 | 45 | | |
| | | Brown fine-coarse SAND, some f-c gravel, trace silt (moist) | 8 | S-5 | SS | 19 | 12 | | | Auger to 8ft |
| | | Brown fine-coarse SAND, some f-c gravel, trace silt, trace weathered rock fragments (moist) | 9 | S-5 | SS | 19 | 16 | 35 | | |
| | | Brown fine-coarse SAND, some f-c gravel, trace silt, trace weathered rock fragments (moist) | 10 | S-6 | SS | 15 | 19 | | | S-6 at 10ft |
| | | Brown to gray silty fine-medium SAND, trace f-c gravel, some weathered rock fragments (wet) [TILL] | 11 | S-6 | SS | 15 | 9 | 22 | | |
| | 123.0 | | 12 | | | | | | | |
| | | | 13 | | | | | | | Auger to 14ft, moderate drilling |
| | | | 14 | S-7 | SS | 19 | 33 | 116 | | S-7 at 14ft |
| | | Gray fine-coarse GRAVEL, some weathered rock fragments (wet) | 15 | S-7 | SS | 19 | 75 | | | |
| | | Inferred Top of Bedrock | 16 | S-8 | SS | 1 | 41 | | | Auger to 17ft, hard drilling |
| | 118.8 | | 17 | S-8 | SS | 1 | 100 | 50/3 | | S-8 at 17ft |
| | | Bottom of Boring | 18 | | | | | | | Bottom of boring at 6/24/2020 |
| | | | 19 | | | | | | | Soil vapor point installed. |
| | | | 20 | | | | | | | |

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|---|--|--------------------------|--|---|--|---------------------------------|------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 133 (NGVD29) | | | |
| Drilling Company Seaboard Drilling, Inc | | | | Date Started 6/22/20 | | Date Finished 6/22/20 | |
| Drilling Equipment Diedrich D50 | | | | Completion Depth 12 ft | | Rock Depth 12 ft | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 7 | Undisturbed - |
| Casing Diameter (in) N/A | | Casing Depth (ft) N/A | | Water Level (ft.) First 10 | | Completion N/A | 24 HR. N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Jeff Nitsch | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Reid Balkind | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|--|-------------|-------------|------|-------------|-----------------------|---|---|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | | N-Value (Blows/ft) |
| | 133.0 | | 0 | | | | | | |
| | 132.5 | 6" Dark brown fine-medium SAND, trace silt, trace roots (dry) [TOPSOIL] | | S-1A | | | 2 | | Started Drilling at 6/22/2020 S-1 at 0ft |
| | 131.0 | Light brown silty fine SAND (dry) | 1 | S-1B | SS | 14 | 2 | 4 | |
| | | Light brown fine-medium SAND, some silt, trace fine gravel (dry) | 2 | | | | 2 | | S-2 at 2ft |
| | | Brown silty fine-coarse SAND (moist) | 3 | S-2 | SS | 13 | 1 | 3 | Auger to 4ft. S-3 at 4ft |
| | | Brown fine-coarse SAND, trace silt, trace f-c gravel (moist) | 4 | | | | 2 | | |
| | | Brown fine-coarse SAND, some f-c gravel, trace silt (moist) | 5 | S-3 | SS | 14 | 4 | 9 | |
| | | Brown fine-coarse SAND, some f-c gravel, trace silt (moist) | 6 | | | | 5 | | S-4 at 6ft |
| | | Brown fine-coarse SAND, some f-c gravel, trace silt (moist) | 7 | S-4 | SS | 15 | 11 | 23 | |
| | | Brown fine-coarse SAND, some f-c gravel, trace silt (moist) | 8 | | | | 12 | | |
| | | Brown fine-coarse SAND, some f-c gravel, trace silt (moist) | 9 | S-5 | SS | 13 | 11 | 23 | Auger to 8ft. S-5 at 8ft |
| | | Brown fine-coarse SAND, some f-c gravel, trace silt (wet) | 10 | | | | 14 | | |
| | | Brown fine-coarse SAND, some f-c gravel, trace silt (wet) | 11 | S-6 | SS | 14 | 9 | 18 | S-6 at 10ft |
| | | Dark gray fine-coarse SAND, trace fine gravel (wet) [TILL] Inferred Top of Bedrock | 12 | S-7 | SS | 3 | 9 | 50/3 | Auger to 12ft. S-7 at 12ft Auger and spoon refusal encountered at 12ft Bottom of boring at 6/22/2020 Boring backfilled with auger cuttings. |
| | 120.8 | Bottom of Boring | 12 | | | | | | |
| | | | 13 | | | | | | |
| | | | 14 | | | | | | |
| | | | 15 | | | | | | |
| | | | 16 | | | | | | |
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| | | | 19 | | | | | | |
| | | | 20 | | | | | | |

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|---|--|---------------------|--|---|--|-----------------------------------|-------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 135.5 (NGVD29) | | | |
| Drilling Company SoilTesting, Inc. | | | | Date Started 6/20/20 | | Date Finished 6/20/20 | |
| Drilling Equipment Diedrich D50 | | | | Completion Depth 23 ft | | Rock Depth 23 ft | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 7 | Undisturbed - |
| Casing Diameter (in) N/A | | | | Casing Depth (ft) N/A | | Water Level (ft.) First 19 | Completion N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Sam DeAngelis | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Taylor Sisti | | | |
| Sampler Hammer Safety | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|---|-------------|-------------|------|-------------|-----------------------|--------------------|---|--|
| | | | | Number | Type | Recov. (in) | Penetr. resist. BL/ft | N-Value (Blows/ft) | | |
| | 135.5 | | 0 | S-1A | | | 3 | | | Started Drilling on 6/20/2020 S-1 at 0ft |
| | 135.3 | 3" Grayish brown fine-medium SAND, some silt, some roots (dry) [TOPSOIL] | 1 | S-1B | SS | 10 | 4 | 9 | | |
| | | Grayish brown fine-coarse SAND, trace silt, trace f-c gravel, trace roots (dry) | 2 | | | | 3 | | | S-2 at 2ft |
| | | Grayish brown fine-coarse SAND, trace silt, trace f-c gravel (dry) | 3 | S-2 | SS | 9 | 3 | 6 | | |
| | | | 4 | | | | 9 | | | Auger to 4ft |
| | | Grayish brown fine-coarse SAND, some f-c gravel, trace silt, trace weathered gravel pieces (dry) | 5 | S-3 | SS | 12 | 11 | 22 | | S-3 at 4ft |
| | | | 6 | | | | 11 | | | |
| | | Grayish brown fine-coarse SAND, trace silt, trace f-c gravel, trace weathered gravel pieces (dry) [TILL] | 7 | S-4 | SS | 3 | 100/5 | 100/5 | | S-4 at 6ft |
| | | | 8 | | | | 16 | | | Auger to 8ft, moderate drilling |
| | | Grayish brown fine-medium SAND, some silt, trace f-c gravel, trace weathered gravel pieces (moist) [TILL] | 9 | S-5 | SS | 19 | 17 | 56 | | S-5 at 8ft, switch to auto hammer |
| | | | 10 | | | | 39 | | | |
| | | Grayish brown fine-medium SAND, some silt, trace f-c gravel, trace weathered gravel pieces (moist) [TILL] | 11 | S-6 | SS | 11 | 17 | 85 | | S-6 at 10ft |
| | | | 12 | | | | 41 | | | |
| | | | 13 | | | | 41 | | | |
| | | | 14 | | | | | | | Auger to 15ft, moderate drilling |
| | | Grayish brown silty fine-medium SAND, trace f-c gravel, trace weathered gravel pieces (moist) [TILL] | 15 | S-7 | SS | 17 | 13 | 63 | | S-7 at 15ft |
| | | | 16 | | | | 21 | | | |
| | | | 17 | | | | 42 | | | |
| | | | 18 | | | | 41 | | | |
| | | | 19 | | | | | | | Auger to 20ft, moderate drilling, auger plug wet at 19ft |
| | | | 20 | | | | | | | |

| Project | | Project No. | | | | | | | |
|---------------------------|------------|---|-------------|-------------|------|-------------|------------------------|---|---------------------------------------|
| Hudson Logistics Center | | 151010101 | | | | | | | |
| Location | | Elevation and Datum | | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 135.5 (NGVD29) | | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
| | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | | N-Value (Blows/ft) |
| | 115.5 | Grayish brown silty fine-medium SAND, some f-c gravel, trace weathered gravel pieces (wet) [TILL] | 20 | | | | | | |
| | | | 21 | S-8 | SS | 18 | 12 25 19 21 | 44 | S-8 at 20ft |
| | | Grayish brown clayey fine-medium SAND, some platy rock fragments (wet) [WEATHERED ROCK] | 22 | | | | | | Auger to 23ft, hard drilling |
| | 112.3 | Inferred Top of Bedrock | 23 | S-9 | SS | 1 | 100/3 | 100/3 | S-9 at 23ft |
| | | Bottom of Boring | 24 | | | | | | Split spoon and auger refusal |
| | | | 25 | | | | | | Bottom of boring on 6/20/2020 |
| | | | 26 | | | | | | Boring backfilled with auger cuttings |
| | | | 27 | | | | | | |
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| | | | | | | | |
|---|--|---------------------|--|---|--|-----------------------------------|-------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 139 (NGVD29) | | | |
| Drilling Company Seaboard Drilling, Inc | | | | Date Started 6/5/20 | | Date Finished 6/5/20 | |
| Drilling Equipment Diedrich D50 | | | | Completion Depth 24 ft | | Rock Depth 24 ft | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 9 | Undisturbed - |
| Casing Diameter (in) N/A | | | | Casing Depth (ft) N/A | | Water Level (ft.) First 9.5 | Completion N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Jeff Nitsch | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Taylor Sisti | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

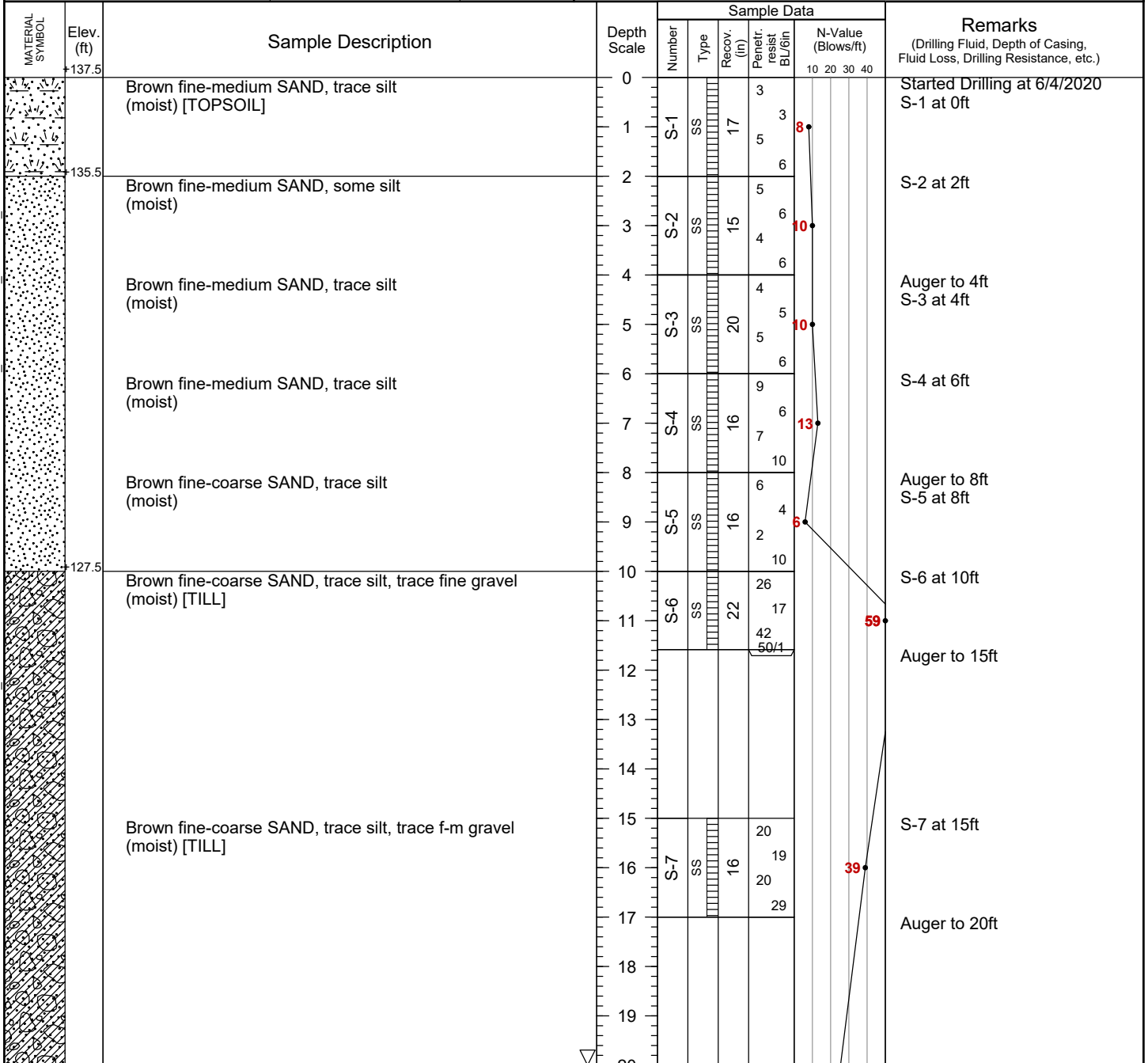
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) |
|-----------------|------------|--|-------------|-------------|------|-------------|-----------------------|--------------------|---|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | N-Value (Blows/ft) | |
| | 139.0 | | 0 | S-1A | SS | 2 | 2 | | Started Drilling at 6/5/2020 |
| | 138.7 | 4" Dark brown to brown fine-medium SAND, some silt, some roots (dry) [TOPSOIL] | 1 | S-1B | SS | 17 | 3 | | S-1 at 0ft |
| | | Brown fine-medium SAND, trace silt, trace fine gravel, trace roots (dry) | 2 | | | 4 | 4 | | S-2 at 2ft |
| | | Brown fine-coarse SAND, trace silt (dry) | 3 | S-2 | SS | 15 | 5 | | Auger to 4ft |
| | | | 4 | | | 7 | 6 | | S-3 at 4ft |
| | | Brown fine-medium SAND, trace silt (moist) | 5 | S-3 | SS | 16 | 3 | | S-4 at 6ft |
| | | | 6 | | | 6 | 6 | | S-4 at 6ft |
| | | Brown fine-medium SAND, trace silt (moist) | 7 | S-4 | SS | 17 | 5 | | Auger to 8ft |
| | | | 8 | | | 6 | 6 | | S-5 at 8ft |
| | | Brown fine-coarse SAND, trace silt, trace f-c gravel (moist) | 9 | S-5 | SS | 14 | 4 | | S-5 at 8ft |
| | | | 10 | | | 6 | 6 | | S-6 at 10ft |
| | | Brown fine-coarse SAND, some f-c gravel, trace silt (wet) | 11 | S-6 | SS | 18 | 4 | | S-6 at 10ft |
| | | | 12 | | | 9 | 6 | | |
| | | | 13 | | | 8 | 6 | | Auger to 14ft, easy drilling |
| | | Brown fine-coarse SAND, some f-c gravel, trace silt (wet) | 14 | S-7 | SS | 19 | 5 | | S-7 at 14ft |
| | | | 15 | | | 7 | 7 | | Decomposed rock in spoon tip |
| | | | 16 | | | 8 | 8 | | |
| | | | 17 | | | 17 | 17 | | |
| | | | 18 | | | | | | Auger to 19ft, moderate drilling |
| | | Brown to gray fine-medium SAND, some f-c gravel, trace silt (wet) [WEATHERED ROCK] | 19 | S-8 | SS | 18 | 11 | | S-8 at 19ft |
| | | | 20 | | | 25 | 25 | | |

| Project | | Project No. | | | | | | |
|---------------------------|------------|--|-------------|-------------|------|-------------|-----------------------|--|
| Hudson Logistics Center | | 151010101 | | | | | | |
| Location | | Elevation and Datum | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 139 (NGVD29) | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) |
| | | | | Number | Type | Recov. (in) | Penetr. resist BU/6in | |
| | +119.0 | No Recovery Inferred Top of Bedrock | 20 | S-8 | SS | 18 | 44 | 69 |
| | | | 21 | | | | 44 | |
| | +114.9 | Bottom of Boring | 24 | S-9 | SS | 0 | 50/1 | 50/1 |
| | | | 25 | | | | | S-9 at 24ft Auger and split spoon refusal at 24ft Bottom of boring at 6/5/2020 Boring backfilled with auger cuttings. |
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|---|--|------------------------|---|--------------------------------|---------------------|
| Project Hudson Logistics Center | | | Project No. 151010101 | | |
| Location 59 Steele Road, Hudson NH | | | Elevation and Datum Elev. + 137.5 (NGVD29) | | |
| Drilling Company SoilTesting, Inc. | | Date Started 6/4/20 | | Date Finished 6/5/20 | |
| Drilling Equipment CME Truck-Mounted Drill Rig | | | Completion Depth 23 ft | | Rock Depth 23 ft |
| Size and Type of Bit 4in Hollow Stem Auger | | | Number of Samples | Disturbed | Undisturbed |
| Casing Diameter (in) N/A | | | Casing Depth (ft) N/A | Water Level (ft.) First | Core |
| Casing Hammer N/A | | Weight (lbs) N/A | Drop (in) N/A | Completion | 24 HR. |
| Sampler 2-inch-diameter split spoon | | | Drilling Foreman John Knepple | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | Drop (in) 30 | Field Engineer Kenneth Idem | |



| Project | | Project No. | | | | | | |
|---------------------------|------------|---|-------------|-------------|------|-------------|------------------------|---|
| Hudson Logistics Center | | 151010101 | | | | | | |
| Location | | Elevation and Datum | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 137.5 (NGVD29) | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) |
| | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | |
| | 117.5 | Brown fine-medium SAND, trace clay, trace silt, trace f-c gravel (wet) [TILL] | 20 | | | | 12 | S-8 at 20ft |
| | | | 21 | S-8 | SS | 13 | 10 12 | |
| | 114.5 | Inferred Top of Bedrock | 22 | | | | | Auger to 25ft |
| | | Bottom of Boring | 23 | | | | | Auger Refusal at 23ft Bottom of boring at 6/5/2020 Boring backfilled with auger cuttings. |
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|---|--|--------------------------|--|---|--|----------------------------------|------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 130 (NGVD29) | | | |
| Drilling Company SoilTesting, Inc. | | | | Date Started 6/23/20 | | Date Finished 6/23/20 | |
| Drilling Equipment CME Truck-Mounted Drill Rig | | | | Completion Depth 21 ft | | Rock Depth 21 ft | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 8 | Undisturbed - |
| Casing Diameter (in) N/A | | Casing Depth (ft) N/A | | Water Level (ft.) First 8 | | Completion N/A | 24 HR. N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman John Knepple | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Kenneth Idem | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

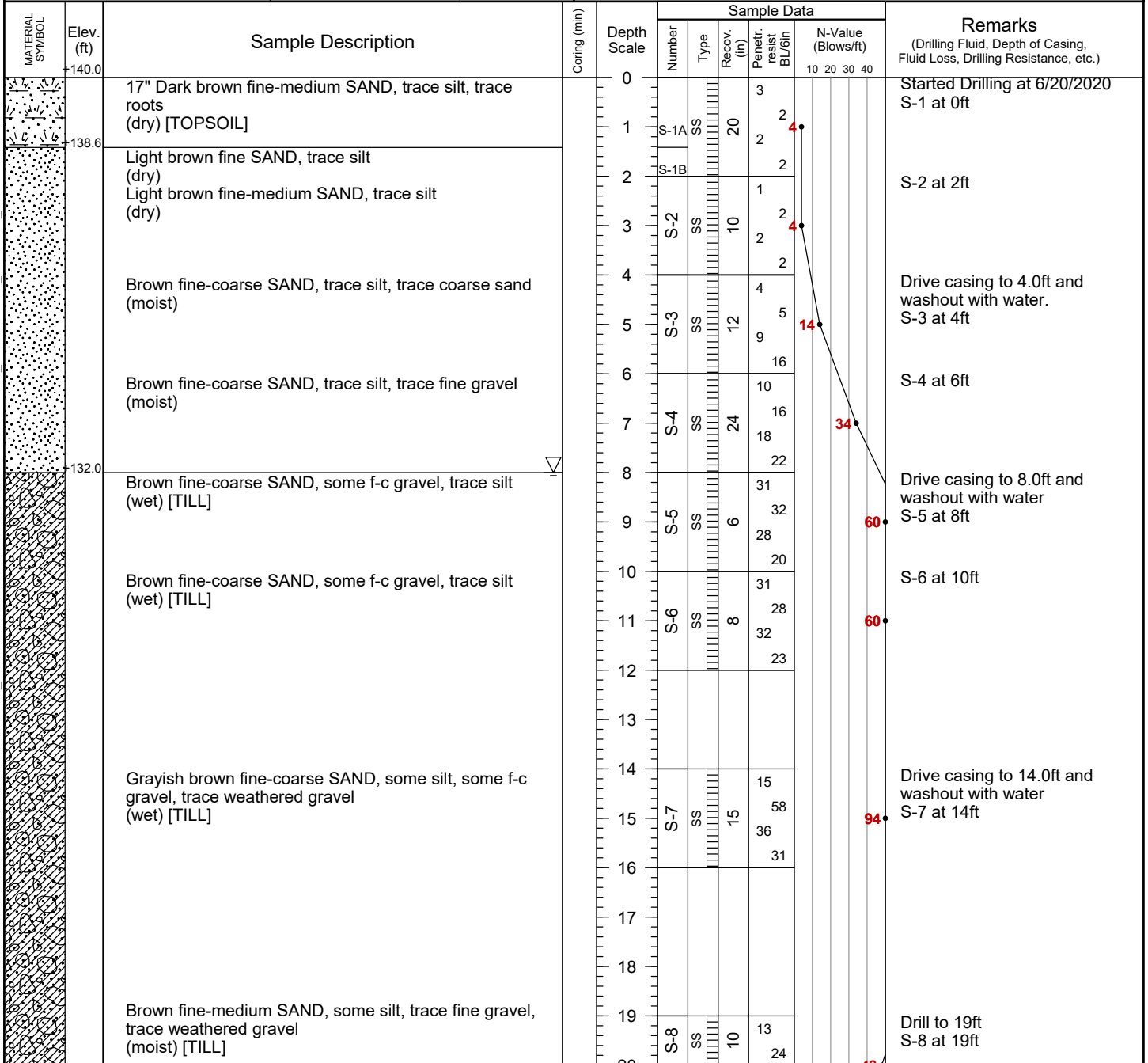
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | | |
|-----------------|------------|---|-------------|-------------|------|-------------|-----------------------|---|--------------------|--|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/In | | N-Value (Blows/ft) | |
| | 130.0 | | 0 | | | | | | | |
| | 129.5 | 6" Dark brown fine SAND, trace silt, trace roots (dry) [TOPSOIL] | | S-1A | | | 3 | | | Started Drilling at 6/23/2020 S-1 at 0ft |
| | | Light brown silty fine-medium SAND (dry) | 1 | S-1B | SS | 11 | 6 | 9 | | |
| | | Light brown silty fine-medium SAND (dry) | 2 | S-2A | | | 5 | | | S-2 at 2ft |
| | 127.4 | Light brown fine-medium SAND, trace silt (dry) | 3 | S-2B | SS | 11 | 5 | 10 | | |
| | | Light brown fine-medium SAND, some silt (dry) | 4 | S-3 | SS | 13 | 6 | 14 | | Auger to 4ft, Easy Augering S-3 at 4ft |
| | | Light brown fine-coarse SAND, some fine gravel, trace silt (moist) | 6 | S-4 | SS | 17 | 7 | 20 | | S-4 at 6ft |
| | | Light brown fine-coarse SAND, some fine gravel, trace silt (wet) | 8 | S-5 | SS | 3 | 7 | 16 | | Auger to 8ft, Easy Augering S-5 at 8ft |
| | | Light brown gravelly fine-coarse SAND, some silt (wet) | 10 | S-6 | SS | 14 | 9 | 10 | | S-6 at 10ft |
| | | | 11 | | | | 5 | | | |
| | | | 12 | | | | 6 | | | Auger to 15ft, Easy Augering |
| | | | 13 | | | | | | | |
| | | | 14 | | | | | | | |
| | 115.0 | Light brown fine-medium SAND, some silt, some f-c gravel (wet) [TILL] | 15 | S-7 | SS | 14 | 6 | 59 | | S-7 at 15ft |
| | | | 16 | | | | 21 | | | |
| | | | 17 | | | | 38 | | | |
| | | | 18 | | | | 28 | | | |
| | | | 19 | | | | | | | |
| | | | 20 | | | | | | | Auger to 20ft, Hard Augering, Heavy Chattering |

| Project | | Project No. | | | | | | | |
|---------------------------|------------|--|-------------|-------------|------|-------------|------------------------|---|--|
| Hudson Logistics Center | | 151010101 | | | | | | | |
| Location | | Elevation and Datum | | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 130 (NGVD29) | | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
| | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | | N-Value (Blows/ft) |
| | 110.0 | | 20 | | | | | | |
| | 108.8 | Light brown fine-coarse SAND, some silt, some m-c gravel (wet) [TILL] Inferred Top of Bedrock | 21 | S-8 | SS | 7 | 45 55 50/3 | | S-8 at 20ft |
| | | Bottom of Boring | 22 | | | | | 50/3 | Auger to 25ft, Hard Augering, Heavy Chattering Auger and Spoon Refusal at 21.25ft Bottom of boring at 6/25/2020 Boring backfilled with auger cuttings. |
| | | | 23 | | | | | | |
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|--|--|---------------------|--|---|--|---------------------------------|-------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 140 (NGVD29) | | | |
| Drilling Company Seaboard Drilling, Inc | | | | Date Started 6/20/20 | | Date Finished 6/20/20 | |
| Drilling Equipment Diedrich D50 | | | | Completion Depth 26.5 ft | | Rock Depth 22.1 ft | |
| Size and Type of Bit 3-7/8in Tricone Roller Bit | | | | Number of Samples | | Disturbed 9 | Undisturbed - |
| Casing Diameter (in) 4 | | | | Casing Depth (ft) 14 | | Water Level (ft.) First 8 | Completion N/A |
| Casing Hammer Automatic | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Jeff Nitsch | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Reid Balkind | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |



| Project | | Project No. | | | | | | | | |
|---------------------------|------------|---|--------------|-------------|-------------|---------|------------------|-----------------------|---|---|
| Hudson Logistics Center | | 151010101 | | | | | | | | |
| Location | | Elevation and Datum | | | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 140 (NGVD29) | | | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Coring (min) | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
| | | | | | Number | Type | Recov. (in) | Penetr. resist BU/6in | | N-Value (Blows/ft) |
| | 120.0 | Brown fine-medium SAND, some silt, trace f-c gravel, trace weathered gravel (moist)[TILL] | | 20 | S-8 | SS | 10 | 24 | 48 | S-9 at 21ft |
| | 117.9 | | | 21 | S-9 | SS | 11 | 28 | 50/1 | |
| | 113.7 | Light gray to white PEGMATITE; fine to coarse grained; slightly weathered; very close to cloase fractures steeply dipping to near horizontal; strong; very poor quality [BEDROCK] | | 2:30 | C-1 | NQ CORE | REC=44"/51" =86% | RQD=9"/51" =18% | 50/1 | Refusal encountered at 22.1ft. C-1 at 22.1ft |
| | | | | 3:10 | | | | | | |
| | | | | 5:11 | | | | | | |
| | | | | 3:24 | | | | | | |
| | 1:03 | 26 | | | | | | | Bottom of boring at 6/20/2020 Boring backfilled with soil cuttings | |
| | | Bottom of Boring | | 27 | | | | | | |
| | | | | 28 | | | | | | |
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|---|--|------------------------|---|--------------------------------|-----------------------|
| Project Hudson Logistics Center | | | Project No. 151010101 | | |
| Location 59 Steele Road, Hudson NH | | | Elevation and Datum Elev. + 135 (NGVD29) | | |
| Drilling Company Seaboard Drilling, Inc | | Date Started 7/1/20 | | Date Finished 7/1/20 | |
| Drilling Equipment Mobile Drill B53 | | | Completion Depth 18.5 ft | | Rock Depth 18.5 ft |
| Size and Type of Bit 4in Hollow Stem Auger | | | Number of Samples | Disturbed | Undisturbed |
| Casing Diameter (in) N/A | | | Casing Depth (ft) N/A | Water Level (ft.) First | Completion |
| Casing Hammer N/A | | Weight (lbs) N/A | Drop (in) N/A | 13 | N/A |
| Sampler 2-inch-diameter split spoon | | | Drilling Foreman Jeff Nitsch | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | Drop (in) 30 | Field Engineer Reid Balkind | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | | |
|-----------------|------------|---|-------------|-------------|------|-------------|-----------------------|---|---|--|
| | | | | Number | Type | Recov. (in) | Penetr. resist. BL/ft | | N-Value (Blows/ft) | |
| | 135.0 | | 0 | S-1A | | 3 | | | Started Drilling at 7/1/2020 S-1 at 0ft | |
| | 134.6 | 5" Dark brown fine-medium SAND, trace silt, trace roots (dry) [TOPSOIL] | 1 | S-1B | SS | 14 | 4 | 8 | | |
| | | Light brown fine-coarse SAND, trace silt, trace f-c gravel (moist) | 2 | | | 5 | 4 | | | S-2 at 2ft |
| | | Light brown fine-coarse SAND, trace silt, trace f-c gravel (dry) | 3 | S-2 | SS | 9 | 5 | 11 | | |
| | | Light gray fine GRAVEL (dry) | 4 | S-3 | SS | 3 | 70/4 | | 70/4 | S-3 at 4ft. Auger and spoon refusal encountered at 4.5ft Offset new boring 5ft to the east and auger to 6ft |
| | | Brown fine-coarse SAND, trace silt, trace f-c gravel (dry) | 6 | S-4 | SS | 8 | 24 | 50/3 | | S-4 at 6ft. Auger and spoon refusal encountered at 6ft in eastern offset. Offset new boring 5ft North of original location |
| | | Brown fine-coarse SAND, some f-c gravel, trace silt (moist) | 8 | S-5 | SS | 14 | 4 | 9 | | S-5 at 8ft |
| | 125.0 | Light brown to gray fine-coarse SAND, trace silt, trace f-c gravel (moist) [TILL] | 10 | S-6 | SS | 20 | 32 | | | S-6 at 10ft |
| | | | 11 | | | 31 | 31 | | 64 | |
| | | | 12 | | | 33 | 31 | | | |
| | | | 13 | | | | | | | |
| | | Brown to orange fine-coarse SAND, some silt, some f-c gravel, trace weathered rock fragments (moist) [TILL] | 15 | S-7 | SS | 18 | 13 | | | Auger to 15ft, Hard drilling and heavy chatter |
| | | | 16 | | | 20 | 20 | | 44 | S-7 at 15ft |
| | | | 17 | | | 24 | 24 | | | |
| | | | 18 | | | 23 | 23 | | | |
| | | Brown fine-medium SAND, some f-c gravel, trace silt, trace weathered rock fragments (moist) [TILL] | 18 | | | | | | | S-8 at 18.5ft. Auger and spoon refusal encountered at 18.5ft. |
| | 116.3 | Inferred Top of Bedrock | 19 | S-8 | SS | 2 | 50/2 | | 50/2 | Bottom of boring at 7/1/2020 Boring backfilled with auger cuttings. |
| | | Bottom of Boring | 20 | | | | | | | |

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| | | | | | | | |
|---|--|--------------------------|--|---|--|----------------------------------|-----------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 130 (NGVD29) | | | |
| Drilling Company SoilTesting, Inc. | | | | Date Started 6/25/20 | | Date Finished 6/25/20 | |
| Drilling Equipment CME Truck-Mounted Drill Rig | | | | Completion Depth 30 ft | | Rock Depth 30 ft | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 10 | Undisturbed - |
| Casing Diameter (in) N/A | | Casing Depth (ft) N/A | | Water Level (ft.) First 10 | | Completion N/A | Core 24 HR. 7.8 |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman John Knepple | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Kenneth Idem | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | | |
|-----------------|------------|---|-------------|-------------|------|-------------|-----------------------|---|--------------------|---|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/In | | N-Value (Blows/ft) | |
| | 130.0 | | 0 | | | | | | | |
| | 129.5 | 6" Dark brown fine SAND, some silt, trace roots (dry) [TOPSOIL] | | S-1A | SS | 2 | 2 | 5 | | Started Drilling at 6/25/2020 S-1 at 0ft |
| | | Light brown fine SAND, some silt (dry) | 1 | S-1B | SS | 24 | 4 | 5 | | |
| | | Light brown fine SAND, some silt (dry) | 2 | | | | | | | S-2 at 2ft |
| | | Light brown fine SAND, some silt (dry) | 3 | S-2 | SS | 14 | 3 | 8 | | Auger to 4ft, Easy Augering S-3 at 4ft |
| | | Light brown fine SAND, some silt (moist) | 4 | | | | | | | |
| | | Light brown fine SAND, some silt (moist) | 5 | S-3 | SS | 19 | 4 | 11 | | S-4 at 6ft |
| | | Light brown fine-coarse SAND, trace silt (moist) | 6 | | | | | | | |
| | | Light brown fine-coarse SAND, trace silt (moist) | 7 | S-4A | SS | 24 | 6 | 18 | | Auger to 8ft, Easy Augering S-5 at 8ft |
| | | Brown fine-coarse SAND, some fine gravel, trace silt (moist) | 8 | S-4B | SS | | 12 | | | |
| | | Brown fine-coarse SAND, some fine gravel, trace silt (moist) | 9 | | | | | | | |
| | | Brown fine-coarse SAND, some fine gravel, trace silt (moist) | 10 | S-5 | SS | 3 | 3 | 10 | | S-6 at 10ft |
| | | Brown fine-coarse SAND, some fine gravel, trace silt (wet) | 11 | S-6 | SS | 15 | 8 | 16 | | Auger to 15ft, Easy Augering |
| | | | 12 | | | | | | | |
| | | | 13 | | | | | | | |
| | | | 14 | | | | | | | |
| | | Brown fine-coarse SAND, trace silt, some fine gravel (wet) | 15 | S-7 | SS | 7 | 4 | | | S-7 at 15ft |
| | | | 16 | | | | | 100/4 | | Auger to 20ft, Moderate Augering, Medium Chattering |
| | | | 17 | | | | | | | |
| | | | 18 | | | | | | | |
| | | | 19 | | | | | | | |
| | | | 20 | | | | | | | |

| Project | | Project No. | | | | | | | |
|---------------------------|------------|---|-------------|-------------|------|-------------|------------------------|---|---|
| Hudson Logistics Center | | 151010101 | | | | | | | |
| Location | | Elevation and Datum | | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 130 (NGVD29) | | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
| | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | | N-Value (Blows/ft) |
| | 110.0 | Brown fine-medium SAND, some silt, trace fine gravel (wet) [TILL] | 20 | | | | 10 | | S-8 at 20ft |
| | | | 21 | S-8 | SS | 14 | 32 | 83 | |
| | | | 22 | | | | 51 | | |
| | | | 23 | | | | 43 | | Auger to 25ft, Moderate Augering, Medium Chattering |
| | | | 24 | | | | | | |
| | | | 25 | | | | 53 | | S-9 at 25ft |
| | | | 26 | S-9 | SS | 3 | 20 | 34 | |
| | | | 27 | | | | 14 | | Auger to 30ft, Moderate Augering, Medium Chattering |
| | | | 28 | | | | 28 | | |
| | | | 29 | | | | | | |
| | 100.1 | Brown fine-coarse SAND, some silt, some fine gravel (wet) [TILL] Inferred Top of Bedrock | 30 | S-10 | SS | 6 | 100/5 | 100/5 | Auger Refusal at 29.5ft. S-10 at 29.5ft Bottom of boring at 6/25/2020 Observation well installed. Refer to well construction log. |
| | | Bottom of Boring | 31 | | | | | | |
| | | | 32 | | | | | | |
| | | | 33 | | | | | | |
| | | | 34 | | | | | | |
| | | | 35 | | | | | | |
| | | | 36 | | | | | | |
| | | | 37 | | | | | | |
| | | | 38 | | | | | | |
| | | | 39 | | | | | | |
| | | | 40 | | | | | | |
| | | | 41 | | | | | | |
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| | | | 45 | | | | | | |

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|---|--|--|--|---|--|--------------------------|--|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 130.5 (NGVD29) | | | |
| Drilling Company SoilTesting, Inc. | | | | Date Started 6/24/20 | | Date Finished 6/25/20 | |
| Drilling Equipment Truck Rig | | | | Completion Depth 33.5 ft | | Rock Depth 33.5 ft | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed | |
| Casing Diameter (in) N/A | | | | Casing Depth (ft) N/A | | Core | |
| Casing Hammer N/A | | | | Weight (lbs) N/A | | Drop (in) N/A | |
| Sampler 2-inch-diameter split spoon | | | | Number of Samples | | | |
| Sampler Hammer Safety | | | | Weight (lbs) 140 | | Drop (in) 30 | |
| | | | | Water Level (ft.) | | | |
| | | | | First 9 | | Completion N/A | |
| | | | | Drilling Foreman Mike Kennedy | | | |
| | | | | Field Engineer Taylor Sisti | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|--|-------------|-------------|------|-------------|-------------------------|--------------------|---|---|
| | | | | Number | Type | Recov. (in) | Penetr. resist. (lb/in) | N-Value (Blows/ft) | | |
| | 130.5 | | 0 | | | | | | | |
| | 130.1 | 5" Light brown fine-medium SAND, some silt, some roots (moist) [TOPSOIL] | 0 | S-1A | SS | 2 | 2 | 5 | | Started Drilling on 6/24/2020 S-1 at 0ft |
| | | Light brown SILT, some fine sand, Trace roots (moist) | 1 | S-1B | SS | 3 | 3 | 5 | | |
| | | Light brown sandy SILT (moist) | 2 | S-1C | SS | 4 | 4 | | | S-2 at 2ft |
| | 128.5 | Light brown silty fine SAND (moist) | 2 | S-2 | SS | 3 | 3 | 7 | | Auger to 4ft |
| | | Light brown silty fine SAND (moist) | 3 | S-3 | SS | 4 | 4 | | | S-3 at 4ft |
| | | Light brown silty fine SAND, Bottom 3 inches mottled (moist) | 4 | | | 5 | 5 | | | |
| | | Light brown silty fine SAND, Top half mottled (moist) | 5 | S-3 | SS | 6 | 6 | 12 | | S-4 at 6ft |
| | | | 6 | | | 6 | 6 | | | |
| | | | 7 | S-4A | SS | 5 | 5 | 14 | | Auger to 8ft |
| | 122.7 | Light brown fine-coarse SAND, trace silt, trace fine gravel (moist) | 8 | S-4B | SS | 8 | 8 | | | S-5 at 8ft |
| | | Brown fine-coarse SAND, trace silt, trace fine gravel (wet) | 9 | S-5 | SS | 10 | 10 | 12 | | |
| | | | 10 | | | 7 | 7 | | | |
| | | Brown fine-coarse SAND, trace fine gravel, trace silt (wet) | 11 | S-6 | SS | 5 | 5 | 8 | | S-6 at 10ft |
| | | | 12 | | | 4 | 4 | | | |
| | | | 13 | | | 4 | 4 | 8 | | Auger to 15ft, easy drilling, add water to auger |
| | | | 14 | | | 4 | 4 | | | |
| | | Brown fine-coarse SAND, trace silt, trace fine gravel (wet) | 15 | S-7 | SS | 4 | 4 | 8 | | S-7 at 15ft |
| | | | 16 | | | 7 | 7 | 30 | | |
| | | | 17 | | | 7 | 7 | | | |
| | | | 18 | | | 23 | 23 | | | Auger to 20ft, easy drilling, fill auger with water |
| | | | 19 | | | 21 | 21 | | | |
| | | | 20 | | | | | | | |

| Project | | Project No. | | | | | | | |
|---------------------------|------------|--|-------------|-------------|------|-------------|------------------------|---|--|
| Hudson Logistics Center | | 151010101 | | | | | | | |
| Location | | Elevation and Datum | | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 130.5 (NGVD29) | | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
| | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | | N-Value (Blows/ft) |
| | +110.5 | Brown fine-coarse SAND, some f-c gravel, trace silt (wet) | 20 | S-8 | SS | 24 | 7 | 21 | S-8 at 20ft |
| | | | 21 | | | | 9 | | |
| | | | 22 | | | | 12 | | |
| | | | 23 | | | | 52 | | |
| | | | 24 | | | | | | Auger to 25ft, easy drilling, fill auger with water |
| | | | 25 | | | | 4 | | S-9 at 25ft |
| | | | 26 | S-9A | SS | 21 | 6 | 30 | |
| | | | 27 | S-9B | | | 24 | | Auger to 28ft, hard drilling, auger grinding at 28ft |
| | | | 28 | | | | 53 | | S-10 at 28ft |
| | | | 29 | S-10 | SS | 16 | 29 | 90 | |
| | | | 30 | | | | 62 | | |
| | | 31 | | | | 28 | | Auger to 33.5, hard drilling, auger refusal at 33.5ft | |
| | | 32 | | | | 24 | | | |
| | | 33 | | | | | | S-11 at 33.5ft | |
| | +104.0 | Brown to brown fine-medium SAND, some silt, trace fine gravel (wet)[TILL] | 27 | | | | | | Bottom of boring on 6/25/2020 |
| | | Brown silty fine-medium SAND, trace fine gravel, trace weathered gravel pieces (wet) [TILL] | 28 | | | | | | Boring backfilled with auger cuttings |
| | | Gray fine-medium SAND, some silt, trace fine gravel, rock fragment in spoon tip (wet) [TILL] | 33 | | | | | | |
| | +96.8 | Inferred Top of Bedrock | 34 | S-11 | SS | 1 | 50/2 | | |
| | | Bottom of Boring | 34 | | | | | | |

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| | | | | | | | |
|---|--|--------------------------|--|---|--|----------------------------------|------------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 132 (NGVD29) | | | |
| Drilling Company SoilTesting, Inc. | | | | Date Started 6/23/20 | | Date Finished 6/23/20 | |
| Drilling Equipment Truck Rig | | | | Completion Depth 9 ft | | Rock Depth N/E | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples 5 | | Disturbed - | Undisturbed - |
| Casing Diameter (in) N/A | | Casing Depth (ft) N/A | | Water Level (ft.) First ∇ N/E | | Completion ∇ N/A | 24 HR. ∇ N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Mike Kennedy | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Taylor Sisti | | | |
| Sampler Hammer Safety | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|--|-------------|-------------|------|-------------|-----------------------|--------------------|---|--|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | N-Value (Blows/ft) | | |
| | 132.0 | | 0 | | | | | | | Started Drilling on 6/23/2020 |
| | 131.4 | 8" Brown fine-medium SAND, some silt, some roots (dry)[TOPSOIL] | | S-1A | SS | 2 | 3 | 5 | | S-1 at 0ft |
| | | Brown silty fine SAND, trace roots (dry) | 1 | S-1B | SS | 16 | 3 | | | |
| | | Brown fine SAND, some silt (moist) | 2 | | | 3 | | | | S-2 at 2ft |
| | | Brown fine SAND, some silt (moist) | 3 | S-2 | SS | 15 | 4 | 7 | | |
| | | Brown fine SAND, some silt (moist) | 4 | | | 3 | | | | S-3 at 4ft |
| | 127.0 | Brown fine-coarse SAND, trace silt, trace f-c gravel (moist) | 5 | S-3A | SS | 18 | 7 | 40 | | |
| | 126.0 | Brown gravelly fine-coarse SAND, some silt, trace weathered rock pieces (moist)[TILL] | 6 | S-3B | SS | 10 | 33 | | | S-4 at 6ft |
| | | Brown fine-medium SAND, some silt, trace f-c gravel, trace weathered rock pieces (moist)[TILL] | 7 | S-4 | SS | 10 | 19 | 51 | | |
| | | Brown fine-medium SAND, some silt, trace f-c gravel, trace weathered rock pieces (moist)[TILL] | 8 | S-5 | SS | 10 | 32 | | | Auger to 8ft |
| | 122.9 | Bottom of Boring | 9 | | | 26 | 36 | | | S-5 at 8ft |
| | | | 10 | | | 28 | | 50/1 | | Auger and split spoon refusal at 9ft, obstruction encountered, offset boring. Refer to boring log A-B-BOR-19A. |
| | | | 11 | | | 50/1 | | | | Bottom of boring at 6/23/2020 |
| | | | 12 | | | | | | | Boring backfilled with auger cuttings |
| | | | 13 | | | | | | | |
| | | | 14 | | | | | | | |
| | | | 15 | | | | | | | |
| | | | 16 | | | | | | | |
| | | | 17 | | | | | | | |
| | | | 18 | | | | | | | |
| | | | 19 | | | | | | | |
| | | | 20 | | | | | | | |

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|---|--|--------------------------|--|---|--|---------------------------------|------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 135 (NGVD29) | | | |
| Drilling Company Seaboard Drilling, Inc | | | | Date Started 6/22/20 | | Date Finished 6/22/20 | |
| Drilling Equipment Diedrich D50 | | | | Completion Depth 25 ft | | Rock Depth 25 ft | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 9 | Undisturbed - |
| Casing Diameter (in) N/A | | Casing Depth (ft) N/A | | Water Level (ft.) First 15 | | Completion N/A | 24 HR. 11.9 |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Jeff Nitsch | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Reid Balkind | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | | |
|-----------------|------------|--|-------------|-------------|------|-------------|-----------------------|---|--------------------|---|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | | N-Value (Blows/ft) | |
| | 135.0 | | 0 | | | | | | | |
| | 134.4 | 7" Dark brown fine-medium SAND, trace silt, trace roots (dry) [TOPSOIL] | | S-1A | | | 2 | | | Started Drilling at 6/22/2020 S-1 at 0ft |
| | | Light brown silty fine-medium SAND (dry) | 1 | S-1B | SS | 15 | 2 | | | |
| | | Brown fine-coarse SAND, some fine gravel, trace silt (dry) | 2 | | | | 3 | | | S-2 at 2ft |
| | | Brown fine-medium SAND, some silt, trace f-c gravel (dry) | 3 | S-2 | SS | 16 | 4 | | | |
| | | Brown fine-medium SAND, some silt, trace f-c gravel (dry) | 4 | | | | 3 | | | S-3 at 4ft. Auger to 4ft |
| | | Brown fine-medium SAND, trace silt, trace f-c gravel (dry) | 5 | S-3 | SS | 12 | 4 | | | |
| | | Brown fine-coarse SAND, trace silt, trace f-c gravel (moist) | 6 | | | | 8 | | | S-4 at 6ft |
| | | Brown fine-coarse SAND, trace silt, trace f-c gravel (moist) | 7 | S-4 | SS | 13 | 7 | | | |
| | | Brown fine-coarse SAND, trace silt, trace f-c gravel (moist) | 8 | | | | 12 | | | Auger to 8ft. S-5 at 8ft |
| | | Brown fine-coarse SAND, trace silt, trace f-c gravel (moist) | 9 | S-5 | SS | 11 | 3 | | | |
| | | Brown fine-coarse SAND, trace silt, trace f-c gravel (moist) | 10 | | | | 5 | | | S-6 at 10ft |
| | | Brown fine-coarse SAND, trace silt, trace f-c gravel (moist) | 11 | S-6 | SS | 14 | 8 | | | |
| | | Grayish brown fine-coarse SAND, some silt, trace f-c gravel, trace weathered gravel (wet) [TILL] | 12 | | | | 7 | | | |
| | 121.5 | | 13 | | | | 7 | | | |
| | | | 14 | | | | 7 | | | |
| | | | 15 | S-7 | SS | 15 | 7 | | | Auger to 15ft. Easy drilling. S-7 at 15ft |
| | | | 16 | | | | 14 | | | |
| | | | 17 | | | | 18 | | | |
| | | | 18 | | | | 20 | | | |
| | | | 19 | | | | 22 | | | |
| | | | 20 | | | | 38 | | | |

| Project | | Project No. | | | | | | | |
|---------------------------|------------|--|-------------|-------------|------|-------------|------------------------|---|---|
| Hudson Logistics Center | | 151010101 | | | | | | | |
| Location | | Elevation and Datum | | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 135 (NGVD29) | | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
| | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | | N-Value (Blows/ft) |
| | 115.0 | Grayish brown fine-coarse SAND, some silt, trace f-c gravel, trace weathered gravel (wet) [TILL] | 20 | | | | 9 | | Auger to 20ft. Moderate drilling and light chatter. S-8 at 20ft |
| | | | 21 | S-8 | SS | 14 | 13 | 31 | |
| | | | 22 | | | | 18 | | |
| | | | 23 | | | | 18 | | |
| | | No Recovery Inferred Top of Bedrock | 24 | | | | | | Auger to 25ft. Moderate drilling. Heavy chatter at 25ft. Spoon refusal encountered at 25ft. S-9 at 25ft Bottom of boring at 6/22/2020 Observation well installed. Refer to well construction log. |
| | 109.8 | Bottom of Boring | 25 | S-9 | SS | 0 | 50/3 | 50/3 | |
| | | | 26 | | | | | | |
| | | | 27 | | | | | | |
| | | | 28 | | | | | | |
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|--|--|---------------------|--|---|--|----------------------------------|-------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 135 (NGVD29) | | | |
| Drilling Company Atlantic Testing Laboratories | | | | Date Started 6/23/20 | | Date Finished 6/24/20 | |
| Drilling Equipment George 7822Dt | | | | Completion Depth 31 ft | | Rock Depth 31 ft | |
| Size and Type of Bit 3-7/8in Tricone Roller Bit | | | | Number of Samples | | Disturbed 10 | Undisturbed - |
| Casing Diameter (in) 4in | | | | Casing Depth (ft) 30 | | Water Level (ft.) First 15 | Completion N/A |
| Casing Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | Drilling Foreman Ben Cray | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Justin Hall | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|--|-------------|-------------|------|-------------|-----------------------|---|--|
| | | | | Number | Type | Recov. (in) | Penetr. resist. BL/ft | | N-Value (Blows/ft) |
| | 135.0 | | 0 | S-1A | | 3 | | | Started Drilling at 6/23/2020 S-1 at 0ft |
| | 134.5 | 6" Dark brown fine-coarse SAND, some organic silt (dry) [TOPSOIL] | 1 | S-1B | SS | 19 | 6 | 11 | |
| | 133.0 | Light brown silty fine-coarse SAND, trace fine gravel (dry) | 2 | S-2 | SS | 17 | 5 | 11 | S-2 at 2ft. Roller bit and drive casing to 4ft, begin drilling with water, Easy drilling |
| | | Light brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 3 | S-3 | SS | 8 | 5 | 13 | S-3 at 4ft. |
| | | Light brown fine-coarse SAND, trace silt (moist) | 4 | S-4A | SS | 18 | 5 | 28 | S-4 at 6ft |
| | | Light brown fine-coarse SAND, trace silt (moist) | 5 | S-4B | SS | 18 | 7 | 21 | Roller bit and drive casing to 8ft, Easy drilling. S-5 at 8ft |
| | | Light brown fine-coarse SAND, trace silt, trace fine gravel (moist) | 6 | S-5 | SS | 8 | 10 | 27 | S-6 at 10ft |
| | | Light brown fine-coarse SAND, trace silt, trace fine gravel (moist) | 7 | S-6 | SS | 16 | 11 | | Roller bit and drive casing to 15ft. Easy to medium drilling, Light Rig Chatter |
| | | Light brown fine-coarse SAND, trace silt, trace fine gravel (moist) | 8 | S-7 | SS | 17 | 18 | 64 | S-7 at 15ft. Roller bit and drive casing to 20ft. Easy to medium drilling, Light Rig Chatter. |
| | | Light grayish brown fine-coarse SAND, some silt, trace fine gravel, weathered rock fragments (wet) | 9 | | | | 30 | | |
| | | | 10 | | | | 34 | | |
| | | | 11 | | | | 87 | | |
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| Project | | Project No. | | | | | | | |
|---------------------------|------------|---|-------------|-------------|------|-------------|------------------------|---|---|
| Hudson Logistics Center | | 151010101 | | | | | | | |
| Location | | Elevation and Datum | | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 135 (NGVD29) | | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
| | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | | N-Value (Blows/ft) |
| | 115.0 | Light grayish brown fine-coarse SAND, some silt, trace f-c gravel, trace weathered rock fragments (wet) | 20 | | | | 34 | | S-8 at 20ft. Roller bit and drive casing to 25ft. Easy to medium drilling, Light Rig Chatter. Weathered cobble at 26.75-27ft |
| | | | 21 | S-8 | SS | 19 | 39 | 89 | |
| | | | 22 | | | | 50 | | |
| | | | 23 | | | | | | |
| | | | 24 | | | | | | |
| | | | 25 | | | | 23 | | |
| | | | 26 | S-9 | SS | 16 | 22 | 81 | |
| | | | 27 | | | | 59 | | |
| | | | 28 | | | | 64 | | |
| | | | 29 | | | | | | |
| | 104.0 | Light grayish brown fine-coarse SAND, some silt, trace fine gravel (wet) Inferred Top of Bedrock | 30 | S-10 | SS | 6 | 60 | | S-10 at 30ft |
| | | Bottom of Boring | 31 | | | | 75/5 | 75/5 | Bottom of boring at 6/24/2020 Install soil vapor point. |
| | | | 32 | | | | | | |
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|---|--|--------------------------|--|---|--|---------------------------------|------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 138 (NGVD29) | | | |
| Drilling Company Seaboard Drilling, Inc | | | | Date Started 6/20/20 | | Date Finished 6/20/20 | |
| Drilling Equipment Diedrich D50 | | | | Completion Depth 20 ft | | Rock Depth 20 ft | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 8 | Undisturbed - |
| Casing Diameter (in) N/A | | Casing Depth (ft) N/A | | Water Level (ft.) First 19.5 | | Completion N/A | 24 HR. N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Jeff Nitsch | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Reid Balkind | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|--|-------------|-------------|------|-------------|-----------------------|---|---|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | | N-Value (Blows/ft) |
| | 138.0 | | 0 | | | | | | |
| | 137.7 | 4" Dark brown fine SAND, trace silt, trace roots (dry) [TOPSOIL] | | S-1A | SS | 3 | 3 | 11 | Started Drilling at 6/20/2020 S-1 at 0ft |
| | | Light brown fine-medium SAND, some silt (dry) | 1 | S-1B | SS | 13 | 6 | | |
| | | Light brown fine-coarse SAND, some f-c gravel, trace silt (dry) | 2 | | | 9 | 6 | | S-2 at 2ft |
| | | | 3 | S-2 | SS | 16 | 11 | 22 | |
| | | | 4 | | | 10 | 10 | | Auger to 4ft S-3 at 4ft |
| | 134.0 | Light brown SILT, some fine-coarse SAND, some f-c gravel (dry) | 4 | | | 8 | 8 | | |
| | | | 5 | S-3 | SS | 17 | 10 | 22 | |
| | | | 6 | | | 12 | 13 | | S-4 at 6ft |
| | 132.0 | Brown fine-medium SAND, some silt, trace f-c gravel (dry) | 6 | | | 15 | 15 | | |
| | | | 7 | S-4 | SS | 20 | 18 | 54 | |
| | | Brown fine-medium SAND, some silt, trace f-c gravel (dry) | 8 | | | 36 | 27 | | Auger to 8ft S-5 at 8ft |
| | | | 9 | S-5A | SS | 24 | 30 | 70 | |
| | | Light gray fine SAND, some f-c gravel, trace silt (dry) | 10 | S-5B | SS | 24 | 40 | | |
| | | Brown fine-medium SAND, some silt, trace f-c gravel (dry) | 11 | | | 36 | 37 | | S-6 at 10ft |
| | | | 12 | S-6 | SS | 21 | 52 | 103 | |
| | | | 13 | | | 51 | 44 | | |
| | | | 14 | | | | | | |
| | 123.0 | Brown fine-medium SAND, some silt, trace f-c gravel, trace weathered gravel (dry) [TILL] | 15 | | | 36 | | | Auger to 15ft. Hard drilling from 13ft S-7 at 15ft |
| | | | 16 | S-7 | SS | 21 | 46 | 108 | |
| | | | 17 | | | 62 | 50/3 | | |
| | | | 18 | | | | | | |
| | | | 19 | | | | | | |
| | 118.0 | | 20 | | | | | | |

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| Project | | Project No. | | | | | | | |
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| Hudson Logistics Center | | 151010101 | | | | | | | |
| Location | | Elevation and Datum | | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 138 (NGVD29) | | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
| | | | | Number | Type | Recov. (in) | Penetr. resist BU/6in | | N-Value (Blows/ft) |
| | +118.0 | | 20 | S-8 | SS | 1 | 50/2 | | |
| | +117.8 | Gray coarse GRAVEL (wet) [BEDROCK] | 21 | | | | | | Auger to 20ft |
| | | Bottom of Boring | 22 | | | | | | S-8 at 20ft. |
| | | | 23 | | | | | | Auger and spoon refusal at 20ft |
| | | | 24 | | | | | | Bottom of boring at 6/20/2020 |
| | | | 25 | | | | | | Boring backfilled with auger cuttings |
| | | | 26 | | | | | | |
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|---|--|--------------------------|--|---|--|-----------------------------------|------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 144 (NGVD29) | | | |
| Drilling Company SoilTesting, Inc. | | | | Date Started 6/19/20 | | Date Finished 6/19/20 | |
| Drilling Equipment ATV Mounted CME 550X | | | | Completion Depth 24.5 ft | | Rock Depth 24.5 ft | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 9 | Undisturbed - |
| Casing Diameter (in) N/A | | Casing Depth (ft) N/A | | Water Level (ft.) First 15 | | Completion N/A | 24 HR. N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Sam DeAngelis | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Justin Hall | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|--|-------------|-------------|------|-------------|-----------------------|---|--|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | | N-Value (Blows/ft) |
| | 144.0 | | 0 | | | | | | |
| | 143.5 | 6" Dark brown fine-coarse SAND, some silt, trace roots (moist) [TOPSOIL] | | S-1A | | | 3 | | Started Drilling at 6/19/2020 S-1 at 0ft |
| | | Light grayish brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 1 | S-1B | SS | 16 | 4 | 8 | |
| | | Light grayish brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 2 | | | | 4 | | S-2 at 2ft |
| | | Light grayish brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 3 | S-2 | SS | 16 | 6 | 20 | |
| | | Light grayish brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 4 | | | | 7 | | S-3 at 4ft |
| | | Light grayish brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 5 | S-3A | SS | 19 | 13 | 37 | Debris stuck in Auger causing spoon to catch. Pull Auger and clear obstruction. |
| | | Light grayish brown fine-coarse SAND, some silt, trace fine gravel (dry) | 6 | S-3B | SS | 16 | 16 | | S-4 at 6ft |
| | | Light grayish brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 7 | S-4 | SS | 5 | 35 | 31 | |
| | | Light grayish brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 8 | | | | 17 | | S-5 at 8ft |
| | | Light grayish brown fine-coarse SAND, trace silt, trace fine gravel (dry) [TILL] | 9 | S-5 | SS | 15 | 14 | 41 | |
| | | Light grayish brown fine-coarse SAND, some silt, trace fine gravel (dry) [TILL] | 10 | | | | 15 | | S-6 at 10.5ft |
| | | Light grayish brown fine-coarse SAND, some silt, trace fine gravel (dry) [TILL] | 11 | S-6 | SS | 16 | 20 | 118 | |
| | | | 12 | | | | 21 | | |
| | | | 13 | | | | 42 | | |
| | | | 14 | | | | 98 | | |
| | | Light grayish brown fine-coarse SAND, some silt, trace fine gravel (wet) [TILL] | 15 | S-7 | SS | 10 | 61 | 51 | Auger to 15ft, easy drilling |
| | | Light grayish brown fine-coarse SAND, some silt, trace fine gravel (wet) [TILL] | 16 | | | | 57 | | S-7 at 15ft |
| | | Light grayish brown fine-coarse SAND, some silt, trace fine gravel (wet) [TILL] | 17 | S-8 | SS | 8 | 23 | 63 | S-8 at 16ft. Light to medium rig chatter 15-17ft Possible obstruction from 16-17ft |
| | | | 18 | | | | 22 | | |
| | | | 19 | | | | 41 | | |
| | | | 20 | | | | 38 | | Auger to 20ft, hard drilling, some light rig chatter |

| Project | | Project No. | | | | | | | |
|---------------------------|------------|--|-------------|-------------|------|-------------|-----------------------|---|--|
| Hudson Logistics Center | | 151010101 | | | | | | | |
| Location | | Elevation and Datum | | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 144 (NGVD29) | | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
| | | | | Number | Type | Recov. (in) | Penetr. resist BU/6in | | N-Value (Blows/ft) |
| | 124.0 | Light grayish brown gravelly fine-coarse SAND, trace silt (wet) [TILL] | 20 | S-9 | SS | 1 | 100/2 | 100/2 | S-9 at 20ft |
| | 119.5 | No Recovery Inferred Top of Bedrock | 24 | S-10 | SS | 0 | 100/0 | 100/0 | S-10 at 24.5ft Auger and spoon refusal at 24.5ft Bottom of boring at 6/19/2020 Boring backfilled with auger cuttings. |
| | | Bottom of Boring | 25 | | | | | | |
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| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 145 (NGVD29) | | | |
| Drilling Company SoilTesting, Inc. | | | | Date Started 6/4/20 | | Date Finished 6/4/20 | |
| Drilling Equipment CME Truck-Mounted Drill Rig | | | | Completion Depth 21.5 ft | | Rock Depth 21.5 ft | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 8 | Undisturbed - |
| Casing Diameter (in) N/A | | Casing Depth (ft) N/A | | Water Level (ft.) First N/E | | Completion N/A | 24 HR. N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman John Knepple | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Kenneth Idem | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|---|-------------|-------------|------|-------------|-------------------------|--------------------|---|----------------------------|
| | | | | Number | Type | Recov. (in) | Penetr. resist. (lb/in) | N-Value (Blows/ft) | | |
| | 145.0 | 24" Brown fine-medium SAND, trace silt, trace roots (dry) [TOPSOIL] | 0 | | | | | | Started Drilling at 6/4/2020 | |
| | 143.0 | Brown fine-medium SAND, trace silt (dry) | 1 | S-1 | SS | 16 | 2 | 5 | | S-1 at 0ft |
| | | | 2 | S-2 | SS | 19 | 3 | 7 | | S-2 at 2ft |
| | | Brown fine-medium SAND, trace silt (moist) | 3 | | | | 4 | | | Auger to 4ft S-3 at 4ft |
| | | | 4 | S-3 | SS | 24 | 3 | 7 | | |
| | | Brown fine SAND, trace silt (moist) | 5 | | | | 4 | | | S-4 at 6ft |
| | | | 6 | S-4 | SS | 17 | 3 | 10 | | |
| | | Brown fine-coarse SAND, trace silt (moist) | 7 | | | | 6 | | | Auger to 8ft S-5 at 8ft |
| | | | 8 | S-5 | SS | 12 | 6 | 9 | | |
| | | Brown fine-coarse SAND, trace silt (moist) | 9 | | | | 6 | | | S-6 at 10ft |
| | | | 10 | S-6 | SS | 18 | 3 | 21 | | |
| | | Brown fine-coarse SAND, trace silt (moist) | 11 | | | | 11 | | | Auger to 15ft |
| | | | 12 | | | | 10 | | | |
| | | Brown fine-coarse SAND, trace silt (moist) | 13 | | | | 11 | | | S-7 at 15ft |
| | | | 14 | S-7 | SS | 11 | 5 | 18 | | |
| | | | 15 | | | | 6 | | | Auger to 20ft |
| | | | 16 | | | | 12 | | | |
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| Project | | Project No. | | | | | | | |
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| Hudson Logistics Center | | 151010101 | | | | | | | |
| Location | | Elevation and Datum | | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 145 (NGVD29) | | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
| | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | | N-Value (Blows/ft) |
| | +125.0 | Brown fine-medium SAND, trace silt, trace fine gravel (moist) [TILL] | 20 | S-8 | SS | 15 | 16 | 73 | S-8 at 20ft |
| | +123.5 | Inferred Top of Bedrock | 21 | | | | 45 | | |
| | | Bottom of Boring | 22 | | | 28 | 50/1 | | Auger Refusal at 22ft Bottom of boring at 6/4/2020 Boring backfilled with auger cuttings. |
| | | | 23 | | | | | | |
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| | | | | | | | |
|---|--|--------------------------|--|---|--|---------------------------------|------------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 138 (NGVD29) | | | |
| Drilling Company Seaboard Drilling, Inc | | | | Date Started 7/1/20 | | Date Finished 7/1/20 | |
| Drilling Equipment Mobile Drill B53 | | | | Completion Depth 23 ft | | Rock Depth 23 ft | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples 9 | | Disturbed 9 | Undisturbed - |
| Casing Diameter (in) N/A | | Casing Depth (ft) N/A | | Water Level (ft.) First ∇ 15 | | Completion ∇ N/A | 24 HR. ∇ N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Jeff Nitsch | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Reid Balkind | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|---|-------------|-------------|------|-------------|-----------------------|--------------------|---|---|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | N-Value (Blows/ft) | | |
| | 138.0 | | 0 | | | | | | | |
| | 137.6 | 5" Dark brown fine-medium SAND, trace silt, trace roots (dry) [TOPSOIL] | 0 | S-1A | | 1 | 1 | | | Started Drilling at 7/1/2020 S-1 at 0ft |
| | | Light brown fine-medium SAND, some silt (moist) | 1 | S-1B | SS | 16 | 2 | 4 | | |
| | | Light brown fine SAND, some silt (dry) | 2 | | | 1 | 2 | | | S-2 at 2ft |
| | | Light brown fine SAND, some silt, trace fine gravel (dry) | 3 | S-2 | SS | 14 | 1 | 3 | | Auger to 4ft S-3 at 4ft |
| | | Light brown fine SAND, some silt (dry) | 4 | | | 2 | 4 | | | |
| | | Light brown fine SAND, some silt (moist) | 5 | S-3 | SS | 17 | 4 | 9 | | S-4 at 6ft |
| | | Light brown fine SAND, some silt (moist) | 6 | | | 5 | 8 | | | |
| | | Light brown fine SAND, some silt (moist) | 7 | S-4 | SS | 18 | 8 | 16 | | Auger to 8ft S-5 at 8ft |
| | | Light brown fine-medium SAND, some silt (moist) | 8 | | | 4 | 6 | | | |
| | | | 9 | S-5 | SS | 16 | 5 | 11 | | S-6 at 10ft |
| | | | 10 | | | 6 | 8 | | | |
| | | | 11 | S-6 | SS | 17 | 7 | 15 | | |
| | | | 12 | | | 8 | 9 | | | |
| | | | 13 | | | | | | | |
| | 124.0 | ? | 14 | | | | | | | |
| | | Brown fine-coarse SAND, trace silt, trace fine gravel (wet) | 15 | | | 9 | 5 | 9 | | Auger to 15ft, Easy drilling S-7 at 15ft |
| | | | 16 | S-7 | SS | 12 | 4 | | | |
| | | | 17 | | | | 3 | | | |
| | | | 18 | | | | | | | |
| | | | 19 | | | | | | | |
| | | | 20 | | | | | | | |

| Project | | Project No. | | | | | | |
|---------------------------|------------|--|-------------|-------------|------|-------------|------------------------|--|
| Hudson Logistics Center | | 151010101 | | | | | | |
| Location | | Elevation and Datum | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 138 (NGVD29) | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) |
| | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | |
| | 118.0 | Brown fine-coarse SAND, trace silt, trace fine gravel (wet) | 20 | | | | | Auger to 20ft S-8 at 20ft |
| | 115.5 | | 21 | S-8 | SS | 14 | 3 | |
| | 114.8 | Brown fine-coarse SAND, trace silt, trace fine gravel, trace weathered gravel (wet) [TILL] Inferred Top of Bedrock | 22 | | | | | S-9 at 23ft. Auger and spoon refusal encountered at 23ft. Bottom of boring at 7/1/2020 Boring backfilled with soil to grade |
| | | Bottom of Boring | 23 | S-9 | SS | 2 | 50/2 | |
| | | | 24 | | | | | |
| | | | 25 | | | | | |
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| | | | | | | | |
|---|--|--------------------------|--|---|--|-----------------------------------|------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 131 (NGVD29) | | | |
| Drilling Company SoilTesting, Inc. | | | | Date Started 7/1/20 | | Date Finished 7/1/20 | |
| Drilling Equipment Truck Rig | | | | Completion Depth 19 ft | | Rock Depth 19 ft | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 7 | Undisturbed - |
| Casing Diameter (in) N/A | | Casing Depth (ft) N/A | | Water Level (ft.) First 8 | | Completion N/A | 24 HR. N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Sam Deangelis | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Jack Berritt | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|--|-------------|-------------|------|-------------|-----------------------|---|--|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | | N-Value (Blows/ft) |
| | 131.0 | | 0 | S-1A | SS | 2 | 2 | 10 | Started Drilling at 7/1/2020 S-1 at 0ft |
| | 130.7 | Dark brown fine-medium SAND, trace silt, trace roots (moist) [TOPSOIL] | | | | | 2 | | |
| | | Light brown fine-medium SAND, some silt (dry) | 1 | S-1B | SS | 23 | 3 | 5 | |
| | | Light brown fine-medium SAND, trace silt (dry) | 2 | | | | 2 | | S-2 at 2ft |
| | | | 3 | S-2 | SS | 16 | 3 | 7 | Auger to 4ft. Easy drilling |
| | | | 4 | | | | 4 | | |
| | 127.0 | Light brown fine-medium SAND, trace silt (moist) | 4 | | | | 3 | | S-3 at 4ft |
| | | | 5 | S-3 | SS | 16 | 5 | 8 | |
| | | Light brown fine-coarse SAND, trace silt (moist) | 6 | | | | 6 | | S-4 at 6ft |
| | | | 7 | S-4 | SS | 20 | 6 | 15 | Auger to 8ft. Light rig chatter |
| | | | 8 | | | | 9 | | |
| | | Light brown fine-coarse SAND, trace silt, trace fine gravel (wet) | 8 | | | | 4 | | S-5 at 8ft |
| | | | 9 | S-5 | SS | 14 | 5 | 13 | |
| | | | 10 | | | | 8 | | |
| | | Light brown fine-coarse SAND, trace silt, trace fine gravel (wet) | 10 | | | | 6 | | S-6 at 10ft |
| | | | 11 | S-6 | SS | 20 | 7 | 17 | |
| | | | 12 | | | | 10 | | |
| | | | 13 | | | | | | Auger to 15.0ft. Light rig chatter |
| | | | 14 | | | | | | |
| | | Light brown fine-coarse SAND, trace silt, trace fine gravel (wet) | 15 | S-7 | SS | 7 | 12 | 50/2 | S-7 at 15ft |
| | | | 16 | | | | | | |
| | | | 17 | | | | | | Auger to 20ft. Heavy rig chatter. |
| | | | 18 | | | | | | Auger refusal at 19ft |
| | | Inferred Top of Bedrock | 18 | | | | | | |
| | 112.0 | | 19 | | | | | | Bottom of boring at 7/1/2020 Boring backfilled with auger cuttings. |
| | | Bottom of Boring | 20 | | | | | | |

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|---|--|--------------------------|--|---|--|-----------------------------------|--|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 131 (NGVD29) | | | |
| Drilling Company SoilTesting, Inc. | | | | Date Started 7/1/20 | | Date Finished 7/1/20 | |
| Drilling Equipment Truck Rig | | | | Completion Depth 32 ft | | Rock Depth N/E | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples Disturbed 10 | | Undisturbed - Core - | |
| Casing Diameter (in) N/A | | Casing Depth (ft) N/A | | Water Level (ft.) First 8 | | Completion 24 HR. N/A N/A | |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Sam Deangelis | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Jack Berritt | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|---|-------------|-------------|------|-------------|-----------------------|---|--|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | | N-Value (Blows/ft) |
| | 131.0 | | 0 | S-1A | | | 2 | | Started Drilling at 7/1/2020 S-1 at 0ft |
| | 130.8 | 3" Dark brown fine-medium SAND, trace silt, trace root (moist)[TOPSOIL] | | | | | 2 | | |
| | | Light brown fine SAND, some silt, trace roots (dry) | 1 | S-1B | SS | 20 | 2 | 4 | |
| | | Light brown fine SAND, some silt (dry) | 2 | | | | 3 | | S-2 at 2ft |
| | | | 3 | S-2 | SS | 18 | 3 | 7 | Auger to 4ft. Easy drilling |
| | | | 4 | | | | 4 | | S-3 at 4ft |
| | 127.0 | Brown fine-coarse SAND, trace silt (moist) | 4 | | | | 3 | | |
| | | | 5 | S-3 | SS | 24 | 3 | 9 | |
| | | Brown fine-coarse SAND, trace silt (moist) | 6 | | | | 6 | | S-4 at 6ft |
| | | | 7 | S-4 | SS | 17 | 9 | 16 | Auger to 8ft. Easy drilling |
| | | Brown fine-coarse SAND, trace silt (wet) | 8 | | | | 7 | | S-5 at 8ft |
| | | | 9 | S-5 | SS | 16 | 4 | 7 | |
| | | Brown fine-coarse SAND, trace silt, trace fine gravel (wet) | 10 | | | | 3 | | S-6 at 10ft |
| | | | 11 | S-6 | SS | 20 | 4 | 5 | |
| | | | 12 | | | | 6 | 11 | Auger to 15.0ft. Light rig chatter |
| | | | 13 | | | | 5 | | |
| | | | 14 | | | | | | |
| | | Brown fine-coarse SAND, trace silt, trace fine gravel (wet) | 15 | | | | 4 | | S-7 at 15ft |
| | | | 16 | S-7 | SS | 15 | 5 | 26 | Auger to 20ft. Moderate rig chatter |
| | | | 17 | | | | 21 | | |
| | | | 18 | | | | 23 | | |
| | | | 19 | | | | | | |
| | 112.0 | ? | 20 | | | | | | |

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|---------------------------------------|---|
| Project Hudson Logistics Center | Project No. 151010101 |
| Location 59 Steele Road, Hudson NH | Elevation and Datum Elev. + 131 (NGVD29) |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | | |
|-----------------|------------|--|---|-------------|------|-------------|------------------------|---|---|-------------|
| | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | | N-Value (Blows/ft) | |
| | +111.0 | Brown fine-coarse SAND, some fine gravel, some silt (wet) [TILL] | 20 | S-8 | SS | 18 | 11 | 61 | S-8 at 20ft | |
| | | | 21 | | | | 22 | | | |
| | | | 22 | | | | 39 | | | |
| | | | | 23 | | | | | Auger to 25ft. Moderate rig chatter | |
| | | | | 24 | | | | | | |
| | | | Brown fine-coarse SAND, some fine gravel, trace silt (wet) [TILL] | 25 | S-9 | SS | 12 | 5 | 10 | S-9 at 25ft |
| | | | | 26 | | | | 6 | | |
| | | | | 27 | | | | 4 | | |
| | | | | 28 | | | | | Auger to 30ft. Heavy rig chatter | |
| | | | | 29 | | | | | | |
| | | Brown fine-coarse SAND, some fine gravel, same silt (wet) [TILL] | 30 | S-10 | SS | 20 | 20 | 51 | S-10 at 30ft | |
| | | | 31 | | | | 25 | | | |
| | | | 32 | | | | 26 | | | |
| | | | 33 | | | | | | Bottom of boring at 7/1/2020 Boring backfilled with auger cuttings. | |
| | | | 34 | | | | | | | |
| | | | 35 | | | | | | | |
| | | | 36 | | | | | | | |
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|--|---------------------|-------------------------|---|--|------------------------------|
| Project Hudson Logistics Center | | | Project No. 151010101 | | |
| Location 59 Steele Road, Hudson NH | | | Elevation and Datum Elev. + 136.5 (NGVD29) | | |
| Drilling Company Atlantic Testing Laboratories | | | Date Started 6/24/20 | | Date Finished 6/24/20 |
| Drilling Equipment Geoprobe 7822DT | | | Completion Depth 25 ft | | Rock Depth 25 ft |
| Size and Type of Bit 3-7/8in Tricone Roller Bit | | | Number of Samples Disturbed 8 | | Undisturbed - Core - |
| Casing Diameter (in) 4 | | Casing Depth (ft) 19 | Water Level (ft.) First 20 | | Completion N/A 24 HR. N/A |
| Casing Hammer Automatic | Weight (lbs) 140 | Drop (in) 30 | Drilling Foreman Sam DeAngelis | | |
| Sampler 2-inch-diameter split spoon | | | Field Engineer Justin Hall | | |
| Casing Hammer Automatic | Weight (lbs) 140 | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | | |
|-----------------|------------|--|-------------|-------------|------|-------------|-----------------------|---|--------------------|--|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | | N-Value (Blows/ft) | |
| | 136.5 | | 0 | | | | | | | |
| | 135.8 | 8" Dark brown fine-medium SAND, some silt, trace roots (dry)[TOPSOIL] | | S-1A | | | 3 | | | Started Drilling on 6/24/2020 S-1A at 0ft S-1B at 8inch |
| | | Light brown fine-coarse SAND, some silt, trace fine gravel (dry) | 1 | S-1B | SS | 12 | 3 | | 11 | |
| | | Light brown fine-coarse SAND, some silt, trace fine gravel (dry) | 2 | | | | 8 | | | S-2 at 2ft. Roller bit and drive casing to 4ft, begin drilling with water. Easy drilling. |
| | | Light brown fine-coarse SAND, some silt, some fine gravel (dry) | 3 | S-2 | SS | 18 | 17 | | 38 | S-3 at 4ft. Roller bit and drive casing to 8ft. Medium drilling medium rig chatter. |
| | | Light brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 4 | | | | 21 | | | |
| | | No Recovery | 5 | S-3 | SS | 14 | 25 | | 51 | S-4 at 6ft |
| | | | 6 | | | | 22 | | | |
| | | | 7 | S-4 | SS | 15 | 29 | | 68 | |
| | | | 8 | | | | 25 | | | No recovery no sample. Split spoon broken and replaced. Roller bit to 10ft. Casing refusal at 7.5ft. |
| | | | 9 | S-5 | SS | 0 | 50/0 | | 50/0 | |
| | | Light brown fine-coarse SAND, some silt, trace f-m gravel (moist) [TILL] | 10 | | | | 24 | | | S-6 at 10ft. Retry driving casing now that hole is open. Roller bit to 15ft. Medium, drilling light to medium rig chatter. |
| | | | 11 | S-5 | SS | 10 | 27 | | 50/4 | |
| | | | 12 | | | | 50/4 | | | |
| | | | 13 | | | | | | | |
| | | | 14 | | | | | | | |
| | | Light brown fine-coarse SAND, some silt, trace f-m gravel (moist) [TILL] | 15 | | | | 22 | | | S-6 at 15ft. Roller bit and drive casing to 20ft. Medium drilling medium rig chatter. |
| | | | 16 | S-6 | SS | 10 | 25 | | 58 | |
| | | | 17 | | | | 33 | | | |
| | | | 18 | | | | 40 | | | |
| | | | 19 | | | | | | | Casing refusal at 19ft. Continue roller bit to 20ft. |
| | | | 20 | | | | | | | |

| Project | | Project No. | | | | | | | |
|---------------------------|------------|--|-------------|-------------|------|-------------|------------------------|---|---|
| Hudson Logistics Center | | 151010101 | | | | | | | |
| Location | | Elevation and Datum | | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 136.5 (NGVD29) | | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
| | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | | N-Value (Blows/ft) |
| | 116.5 | Light brown fine-coarse SAND, some silt, trace f-m gravel (wet) [TILL] | 20 | | | | | | |
| | | | 21 | S-7 | SS | 11 | 31 | 48 | S-7 at 20ft. Roller bit to 25ft. Medium to hard drilling medium to heavy rig chatter. |
| | | | 22 | | | | | | |
| | | | 23 | | | | | | |
| | | | 24 | | | | | | |
| | | No Recovery Inferred Top of Bedrock | 25 | S-8 | SS | 0 | 50/0 | 50/0 | S-8 at 25ft Bottom of boring on 6/24/2020 |
| | 111.5 | Bottom of Boring | 26 | | | | | | |
| | | | 27 | | | | | | |
| | | | 28 | | | | | | |
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|---|--|--------------------------|------------------|---|--|--------------------------|------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 140.5 (NGVD29) | | | |
| Drilling Company SoilTesting, Inc. | | | | Date Started 6/22/20 | | Date Finished 6/22/20 | |
| Drilling Equipment Truck Rig | | | | Completion Depth 20 ft | | Rock Depth 20 ft | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 8 | Undisturbed - |
| Casing Diameter (in) N/A | | Casing Depth (ft) N/A | | Water Level (ft.) First 16.5 | | Completion N/A | 24 HR. N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | Drop (in) N/A | Drilling Foreman Mike Kennedy | | | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Taylor Sisti | | | |
| Sampler Hammer Safety | | Weight (lbs) 140 | Drop (in) 30 | | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|--|-------------|-------------|------|-------------|-----------------------|--------------------|---|--|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/In | N-Value (Blows/ft) | | |
| | 140.5 | | 0 | | | | | | | |
| | 140.1 | 5" Brown fine-medium SAND, some silt, some roots (dry) [TOPSOIL] | | S-1A | SS | 5 | 5 | 8 | | Started Drilling at 6/22/2020 S-1 at 0ft |
| | 139.0 | Brown fine-medium SAND, some silt, trace roots (dry) | 1 | S-1B | SS | 4 | 4 | | | |
| | | Brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 2 | S-1C | SS | 5 | 5 | | | S-2 at 2ft |
| | | Brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 3 | S-2 | SS | 6 | 7 | 13 | | Auger to 4ft |
| | | Brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 4 | S-3 | SS | 10 | 11 | 23 | | S-3 at 4ft |
| | | Brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 5 | S-3 | SS | 12 | 11 | | | |
| | | Brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 6 | S-3 | SS | 15 | 15 | | | S-4 at 6ft |
| | | Brown fine-medium SAND, trace silt | 7 | S-4A | SS | 15 | 15 | 30 | | Auger to 8ft |
| | | Brown fine-coarse SAND, some fine gravel, trace silt (dry) | 8 | S-4B | SS | 8 | 14 | | | S-5 at 8ft |
| | | Brown fine-medium SAND, trace silt, trace fine gravel (dry) | 9 | S-5 | SS | 11 | 12 | 23 | | |
| | | Brown fine-medium SAND, trace silt, trace fine gravel (dry) | 10 | S-5 | SS | 14 | 18 | | | S-6 at 10ft |
| | 129.5 | Brown silty fine-medium SAND (moist) | 11 | S-6A | SS | 18 | 19 | 41 | | |
| | 129.0 | Brown fine-coarse SAND, some f-c gravel, trace silt (moist) | 12 | S-6B | SS | 22 | 22 | | | |
| | | | 13 | S-6C | SS | 22 | 22 | | | |
| | | | 14 | | | | | | | Auger to 15ft, easy drilling |
| | | Brown fine-coarse SAND, some f-c gravel, trace silt (moist) | 15 | S-7 | SS | 15 | 14 | 30 | | S-7 at 15ft Bottom 6 inches of sample wet |
| | | | 16 | S-7 | SS | 14 | 16 | | | |
| | | | 17 | | | 8 | | | | |
| | 122.5 | ? | 18 | | | | | | | Auger to 19ft, moderate drilling. Auger refusal at 19ft. |
| | | Brown silty fine-medium SAND, trace f-c gravel (wet) [TILL] | 19 | S-8 | SS | 5 | 51 | 50/3 | | S-8 at 19ft, spoon refusal at 19.8ft. Platey rock fragments in spoon tip |
| | 120.8 | Inferred Top of Bedrock | 20 | | | | | | | Bottom of boring at 6/22/2020. Boring backfilled with auger cuttings. |
| | | Bottom of Boring | 20 | | | | | | | |
| | | | 21 | | | | | | | |

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| | | | | | | | |
|---|--|--------------------------|--|---|--|---------------------------------|------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 143 (NGVD29) | | | |
| Drilling Company Seaboard Drilling, Inc | | | | Date Started 6/23/20 | | Date Finished 6/23/20 | |
| Drilling Equipment Diedrich D50 | | | | Completion Depth 29 ft | | Rock Depth 29 ft | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 10 | Undisturbed - |
| Casing Diameter (in) N/A | | Casing Depth (ft) N/A | | Water Level (ft.) First 17 | | Completion N/A | 24 HR. N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Jeff Nitsch | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Reid Balkind | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|---|-------------|-------------|------|-------------|-----------------------|---|---|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | | N-Value (Blows/ft) |
| | 143.0 | | 0 | | | | | | |
| | 142.5 | 6" Dark brown fine-medium SAND, trace silt, trace roots (dry) [TOPSOIL] | 0 | S-1A | SS | 3 | 3 | 5 | Started Drilling at 6/23/2020 S-1 at 0ft |
| | 141.0 | Light brown silty fine SAND, some silt, trace fine gravel (dry) | 1 | S-1B | SS | 21 | 3 | 5 | |
| | | Brown fine-coarse SAND, trace silt, trace fine gravel (moist) | 2 | | | 5 | 3 | 5 | S-2 at 2ft |
| | | Brown fine-coarse SAND, trace silt (moist) | 3 | S-2 | SS | 16 | 5 | 11 | Auger to 4ft S-3 at 4ft |
| | | Brown fine-coarse SAND, trace silt (moist) | 4 | | | 15 | 6 | 16 | |
| | | Brown fine-coarse SAND, trace silt (moist) | 5 | S-3 | SS | 15 | 8 | 16 | S-4 at 6ft |
| | | Brown fine-coarse SAND, trace silt (moist) | 6 | | | 16 | 10 | 19 | |
| | | Brown fine-coarse SAND, trace silt (moist) | 7 | S-4 | SS | 16 | 9 | 19 | Auger to 8ft S-5 at 8ft |
| | | Brown fine-coarse SAND, trace silt (moist) | 8 | | | 16 | 9 | 16 | |
| | | Brown fine-coarse SAND, trace silt (moist) | 9 | S-5 | SS | 16 | 8 | 16 | S-6 at 10ft |
| | | Brown fine-coarse SAND, trace silt (moist) | 10 | | | 17 | 11 | 22 | |
| | | Brown fine-coarse SAND, trace silt, trace f-c gravel (wet) | 11 | S-6 | SS | 17 | 10 | 22 | |
| | | | 12 | | | | 12 | | |
| | | | 13 | | | | | | |
| | | | 14 | | | | | | |
| | | | 15 | | | | | | |
| | | | 16 | S-7 | SS | 8 | 6 | 26 | Auger to 15ft, Easy drilling S-7 at 15ft |
| | | | 17 | | | | 12 | | |
| | | | 18 | | | | 14 | | |
| | | | 19 | | | | 14 | | |
| | 124.5 | ? | 20 | | | | | | |


| Project | | Project No. | | | | | | | |
|---------------------------|------------|--|-------------|-------------|------|-------------|------------------------|---|--|
| Hudson Logistics Center | | 151010101 | | | | | | | |
| Location | | Elevation and Datum | | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 143 (NGVD29) | | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
| | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | | N-Value (Blows/ft) |
| | 123.0 | Grayish brown fine-medium SAND, some silt, trace f-c gravel, trace weathered gravel (wet) [TILL] | 20 | | | | 21 | | Auger to 20ft, Moderate drilling S-8 at 20ft Auger to 25ft, Moderate drilling, Light chatter S-9 at 25ft Auger to 29ft S-10 at 29ft Auger and spoon refusal encountered at 29.0ft Bottom of boring at 6/23/2020 9:20 AM Boring backfilled with auger cuttings. |
| | | | 21 | S-8 | SS | 18 | 36 | 83 | |
| | | | 22 | | | | 47 | | |
| | | | 23 | | | | 49 | | |
| | | | 24 | | | | | | |
| | | | 25 | | | | 20 | | |
| | | | 26 | S-9 | SS | 16 | 20 | 37 | |
| | | | 27 | | | | 17 | | |
| | | | 28 | | | | 23 | | |
| | | | 29 | S-10 | SS | 0 | 50/1 | 50/1 | |
| | 113.9 | No Recovery Inferred Top of Bedrock | | | | | | | |
| | | Bottom of Boring | | | | | | | |
| | | | 30 | | | | | | |
| | | | 31 | | | | | | |
| | | | 32 | | | | | | |
| | | | 33 | | | | | | |
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| | | | | | | | |
|---|--|--------------------------|--|---|--|-----------------------------------|------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 144.5 (NGVD29) | | | |
| Drilling Company SoilTesting, Inc. | | | | Date Started 6/19/20 | | Date Finished 6/19/20 | |
| Drilling Equipment ATV Mounted CME 550X | | | | Completion Depth 28 ft | | Rock Depth 28 ft | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 10 | Undisturbed - |
| Casing Diameter (in) N/A | | Casing Depth (ft) N/A | | Water Level (ft.) First 20 | | Completion N/A | 24 HR. N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Sam DeAngelis | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Justin Hall | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|--|-------------|-------------|------|-------------|-----------------------|--------------------|---|-------------------------------|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | N-Value (Blows/ft) | | |
| | 144.5 | | 0 | | | | | | | Started Drilling at 6/19/2020 |
| | 144.0 | 6" Dark brown fine-coarse SAND, some silt, trace roots (moist) [TOPSOIL] | | S-1A | | 4 | 4 | | | S-1 at 0ft |
| | | Light brown fine-coarse SAND, trace silt (dry) | 1 | S-1B | SS | 15 | 3 | 5 | | |
| | | Light brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 2 | | | 4 | 3 | | | S-2 at 2ft |
| | | Light brown fine-medium SAND, trace silt (dry) | 3 | S-2A | SS | 9 | 3 | 6 | | |
| | | Light brown fine-medium SAND, trace silt (dry) | 4 | S-2B | | 20 | 4 | | | Auger to 4ft S-3 at 4ft |
| | | Light brown fine-coarse SAND, trace fine gravel, trace silt (dry) | 5 | S-3A | SS | 17 | 10 | 15 | | |
| | | Light brown fine-medium SAND, trace silt (dry) | 6 | S-3B | | 10 | 7 | | | S-4 at 6ft |
| | | Light brown fine-coarse SAND, trace silt (dry) | 7 | S-4 | SS | 17 | 9 | 19 | | |
| | | Light brown fine-coarse SAND, trace silt (dry) | 8 | | | 9 | 9 | | | Auger to 8ft S-5 at 8ft |
| | | Light brown fine-coarse SAND, trace silt (dry) | 9 | S-5 | SS | 14 | 6 | 13 | | |
| | | Light brown fine-coarse SAND, trace silt (dry) | 10 | | | 10 | 7 | | | S-6 at 10ft |
| | | Light brown fine-coarse SAND, trace silt, trace fine gravel (moist) | 11 | S-6A | SS | 17 | 10 | 17 | | |
| | | | 12 | S-6B | | 15 | 15 | | | |
| | | Light brown fine-coarse SAND, trace silt, trace fine gravel (moist) | 15 | | | 8 | 7 | | | Auger to 15ft S-7 at 15ft |
| | | | 16 | S-7 | SS | 15 | 7 | 14 | | |
| | | | 17 | | | 7 | 8 | | | |
| | | | 18 | | | | | | | |
| | | | 19 | | | | | | | |
| | | | 20 | | | | | | | |

| Project | | Project No. | | | | | | | | | |
|---|------------|--|---|-------------|-------|-------------|------------------------|---|------------------------------|--|---|
| Hudson Logistics Center | | 151010101 | | | | | | | | | |
| Location | | Elevation and Datum | | | | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 144.5 (NGVD29) | | | | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | | | |
| | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | | N-Value (Blows/ft) | | |
|  | 124.5 | Dark grayish brown fine-coarse SAND, some silt, trace fine gravel (wet) [TILL] | 20 | S-8 | SS | 8 | 10 | | Auger to 20ft S-8 at 20ft | | |
| | | Light brown fine-coarse SAND, some silt, trace fine gravel (wet) [TILL] | 21 | | | | 15 | | | | |
| | | | 22 | S-9 | SS | 18 | 39 | | 100/3 | S-9 at 21.25ft Weathered cobble at 21.75' Auger to 25ft Light rig chatter 20-26ft. | |
| | | | 23 | | | | 41 | | 88 | | |
| | | | 24 | | | | 47 | | | | |
| | | | 25 | | | | 56 | | | | |
| | | | Light brown fine-coarse SAND, some silt, trace fine gravel (wet) [TILL] | 26 | S-10A | SS | 19 | 10 | | 27 | S-10 at 25ft Light to medium rig chatter 25-28ft |
| | | | Light brown fine-coarse SAND, trace silt (wet) [TILL] | 27 | S-10B | | | 12 | | | |
| | | | | 27 | | | | 15 | | | |
| | | | | 27 | | | | 13 | | | |
| | 116.5 | Inferred Top of Bedrock | 28 | | | | | | | Auger refusal at 28ft Bottom of boring at 6/19/2020 Boring backfilled with auger cuttings. | |
| | | Bottom of Boring | 29 | | | | | | | | |
| | | | 30 | | | | | | | | |
| | | | 31 | | | | | | | | |
| | | | 32 | | | | | | | | |
| | | | 33 | | | | | | | | |
| | | | 34 | | | | | | | | |
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| | | | 37 | | | | | | | | |
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|--|--|------------------------|-----------------|---|--|--------------------------|------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 141.5 (NGVD29) | | | |
| Drilling Company Atlantic Testing Laboratories | | | | Date Started 6/14/20 | | Date Finished 6/14/20 | |
| Drilling Equipment Geoprobe 7720 DT | | | | Completion Depth 28 ft | | Rock Depth 28 ft | |
| Size and Type of Bit 3-7/8in Tricone Roller Bit | | | | Number of Samples | | Disturbed 10 | Undisturbed - |
| Casing Diameter (in) 4in | | Casing Depth (ft) 4 | | Water Level (ft.) First 10 | | Completion 10.4 | 24 HR. N/A |
| Casing Hammer Automatic | | Weight (lbs) 140 | Drop (in) 30 | Drilling Foreman Scott McGregor | | | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Olivia Chasse | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | Drop (in) 30 | | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) |
|-----------------|------------|---|-------------|-------------|------|-------------|-----------------------|--------------------|---|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | N-Value (Blows/ft) | |
| | 141.5 | | 0 | | | | | | |
| | 141.0 | 6" Dark brown fine-medium SAND, some silt, some roots (dry) [TOPSOIL] | 0.5 | S-1A | SS | 12 | 5 | 8 | S-1 at 0.5ft |
| | | Light brown fine-medium SAND, trace silt, trace fine gravel (dry) [FILL] | 1 | S-1B | SS | 12 | 3 | 5 | |
| | | Brown fine-coarse SAND, trace silt (moist) [FILL] | 2 | | | | 4 | | S-2 at 2ft |
| | | | 3 | S-2 | SS | 14 | 7 | 10 | |
| | 137.5 | | 4 | | | | 12 | | Drive casing to 4.0ft |
| | 137.2 | 4" Dark brown fine-medium SAND, some silt, trace roots (moist) [HISTORIC TOPSOIL] | 4.0 | S-3A | SS | 12 | 20 | 20 | S-3 at 4ft |
| | | Brown fine-coarse SAND, trace silt (moist) | 5 | | | | 11 | | |
| | | | 6 | S-3B | SS | 12 | 9 | 9 | |
| | | Brown fine SAND, trace silt (moist) | 7 | | | | 5 | | Switch to mud rotary technique |
| | | | 8 | S-4 | SS | 6 | 6 | 13 | S-4 at 6ft |
| | | Brown fine SAND, some silt (moist) | 9 | | | | 7 | | |
| | | | 10 | S-5 | SS | 9 | 4 | 20 | Open hole to 8ft, easy drilling |
| | | Brown fine-coarse SAND, trace silt, trace fine gravel (wet) | 10 | | | | 12 | | S-5 at 8ft |
| | | | 11 | S-6 | SS | 8 | 6 | 18 | S-6 at 10ft |
| | | | 12 | | | | 8 | | |
| | | | 13 | | | | 10 | | |
| | | | 14 | | | | 10 | | |
| | | Brown fine-coarse SAND, some silt, some fine gravel (wet) | 15 | S-7 | SS | 8 | 15 | 32 | Open hole to 14ft, easy to moderate drilling |
| | | | 16 | | | | 17 | | S-7 at 14ft |
| | | | 17 | | | | 18 | | |
| | | | 18 | | | | | | |
| | | | 19 | | | | | | |
| | | Brown some fine-coarse SAND, some silt, some fine gravel (wet) | 19 | S-8 | SS | 4 | 2 | | Open hole to 19ft, moderate drilling. |
| | | | 20 | | | | 10 | 20 | S-8 at 19ft |

| | |
|---------------------------------------|---|
| Project Hudson Logistics Center | Project No. 151010101 |
| Location 59 Steele Road, Hudson NH | Elevation and Datum Elev. + 141.5 (NGVD29) |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | N-Value (Blows/ft) | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) |
|-----------------|------------|---|-------------|-------------|------|-------------|------------------------|--------------------|---|
| | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | | |
| | 121.5 | | 20 | S-8 | SS | 4 | 10 | 20 | |
| | | | 21 | | | | 10 | | |
| | | | 22 | | | | | | |
| | | | 23 | | | | | | |
| | | Brown fine-coarse SAND, some silt, some fine gravel (wet) | 24 | | | 4 | 9 | | Open hole to 24ft, moderate drilling. S-9 at 24ft |
| | | | 25 | S-9 | SS | 3 | 32 | 41 | |
| | | | 26 | | | | 26 | | |
| | | No Recovery Inferred Top of Bedrock | 27 | | | | 6 | | Open hole to 27ft. Roller bit refusal. S-10 at 27ft Bottom of Boring at 6/14/2020 Boring backfilled with soil cuttings. |
| | | | 28 | S-10 | SS | 0 | 7 | 50/2 | |
| | 113.3 | Bottom of Boring | 29 | | | | | | |
| | | | 30 | | | | | | |
| | | | 31 | | | | | | |
| | | | 32 | | | | | | |
| | | | 33 | | | | | | |
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|--|------------------------|------------------------------------|---|--------------------------|---------------------|
| Project Hudson Logistics Center | | | Project No. 151010101 | | |
| Location 59 Steele Road, Hudson NH | | | Elevation and Datum Elev. + 134.5 (NGVD29) | | |
| Drilling Company Atlantic Testing Laboratories | | Date Started 6/24/20 | | Date Finished 6/24/20 | |
| Drilling Equipment Geoprobe 7822 DT | | | Completion Depth 30 ft | | Rock Depth 30 ft |
| Size and Type of Bit 3-7/8in Tricone Roller Bit | | | Number of Samples | Disturbed 9 | Undisturbed - |
| Casing Diameter (in) 4 | Casing Depth (ft) 4 | Water Level (ft.) First 10.9 | Completion N/A | 24 HR. N/A | Core - |
| Casing Hammer Automatic | Weight (lbs) 140 | Drop (in) 30 | Drilling Foreman Scott McGregor | | |
| Sampler 2-inch-diameter split spoon | | | Field Engineer Jack Berritt | | |
| Sampler Hammer Automatic | Weight (lbs) 140 | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | | |
|-----------------|------------|---|-------------|-------------|------|-------------|-----------------------|---|-----------------------------------|--|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | | N-Value (Blows/ft) 10 20 30 40 | |
| | 134.5 | | 0 | | | | | | | |
| | 134.3 | 3" Dark brown fine-medium SAND, trace silt, trace roots (moist) [TOPSOIL] | | S-1A | SS | 14 | 1 | | | Started Drilling on 6/24/2020 S-1 at 0ft |
| | | Brown fine SAND, some silt, trace roots (dry) | 1 | S-1B | SS | | 2 | | | S-2 at 2ft |
| | 132.5 | Brown SILT, some fine sand, trace roots (dry) | 2 | S-2 | SS | 17 | 3 | | | Drill to 4.0ft. Drive casing to 4.0ft. Easy drilling |
| | | Brown fine SAND, some silt (dry) | 3 | | | | 5 | | | S-3 at 4ft |
| | 130.5 | Brown fine SAND, some silt (dry) | 4 | S-3 | SS | 10 | 6 | | | S-4 at 6ft |
| | | Brown fine SAND, some silt (dry) | 5 | S-4 | SS | 9 | 8 | | | Drill to 8.0ft. Easy drilling |
| | | Brown fine SAND, some silt (dry) | 6 | | | | 10 | | | S-5 at 8ft |
| | | Brown fine SAND, some silt (dry) | 7 | S-5 | SS | 8 | 9 | | | S-6 at 10ft |
| | | Brown fine SAND, some silt (moist) | 8 | | | | 12 | | | Drill to 15.0ft. Easy drilling |
| | | Brown fine SAND, some silt (moist) | 9 | S-6 | SS | 12 | 6 | | | S-7 at 15ft |
| | | Brown fine SAND, some silt, trace fine gravel (moist) | 10 | | | | 7 | | | Drill to 20.0ft. Light rig chatter |
| | | | 11 | S-7 | SS | 12 | 9 | | | |
| | | | 12 | | | | 10 | | | |
| | | | 13 | | | | | | | |
| | | | 14 | | | | | | | |
| | | | 15 | | | | | | | |
| | | | 16 | | | | | | | |
| | | | 17 | | | | | | | |
| | | | 18 | | | | | | | |
| | | | 19 | | | | | | | |
| | | | 20 | | | | | | | |

| Project | | Project No. | | | | | | | |
|---------------------------|------------|---|-------------|-------------|------|-------------|------------------------|---|---------------------------------------|
| Hudson Logistics Center | | 151010101 | | | | | | | |
| Location | | Elevation and Datum | | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 134.5 (NGVD29) | | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
| | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | | N-Value (Blows/ft) |
| | 114.5 | Grayish brown fine-coarse SAND, some silt, some fine gravel (moist)[TILL] | 20 | S-8 | SS | 8 | 14 | 33 | S-8 at 20ft |
| | | | 21 | | | | 16 | | |
| | | | 22 | | | | 17 | | Drill to 25.0ft. Moderate rig chatter |
| | | | 23 | | | | 15 | | |
| | | | 24 | | | | | | |
| | | | 25 | S-9 | SS | 6 | 9 | 64 | S-9 at 25ft |
| | | | 26 | | | | 24 | | |
| | | | 27 | | | | 40 | | |
| | | | | | | | 51 | | Drill to 30.0ft. Heavy rig chatter |
| | | | 28 | | | | | | |
| | | 29 | | | | | | | |
| | 104.5 | No Recovery Inferred Top of Bedrock | 30 | S-10 | SS | 0 | 50/0 | 50/0 | S-10 at 30ft |
| | | Bottom of Boring | 31 | | | | | | Bottom of boring on 6/24/2020 |
| | | | 32 | | | | | | Boring backfilled with soil cuttings |
| | | | 33 | | | | | | |
| | | | 34 | | | | | | |
| | | | 35 | | | | | | |
| | | | 36 | | | | | | |
| | | | 37 | | | | | | |
| | | | 38 | | | | | | |
| | | | 39 | | | | | | |
| | | | 40 | | | | | | |
| | | | 41 | | | | | | |
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| | | | 45 | | | | | | |


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| | | | | | | | |
|--|--|--|--|---|--|--------------------------|--|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 131.5 (NGVD29) | | | |
| Drilling Company Atlantic Testing Laboratories | | | | Date Started 6/25/20 | | Date Finished 6/25/20 | |
| Drilling Equipment Geoprobe 7822 DT | | | | Completion Depth 31.9 ft | | Rock Depth N/E | |
| Size and Type of Bit 3-7/8in Tricone Roller Bit | | | | Number of Samples | | Disturbed | |
| Casing Diameter (in) 4 | | | | Casing Depth (ft) 4 | | Undisturbed | |
| Casing Hammer Automatic | | | | Weight (lbs) 140 | | Drop (in) 30 | |
| Sampler 2-inch-diameter split spoon | | | | Water Level (ft.) First | | Completion | |
| Sampler Hammer Automatic | | | | Weight (lbs) 140 | | Drop (in) 30 | |
| | | | | Drilling Foreman Scott McGregor | | | |
| | | | | Field Engineer Jack Berritt | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|--|-------------|-------------|------|-------------|-----------------------|--------------------|---|--|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | N-Value (Blows/ft) | | |
| | 131.5 | | 0 | | | | | | | Started Drilling on 6/25/2020 |
| | 131.3 | 2" Dark brown fine-medium SAND, trace silt, trace roots (moist)[TOPSOIL] | | S-1A | SS | 16 | 1 | 3 | | S-1 at 0ft |
| | | Brown fine SAND, some silt (dry) | 1 | | | | 2 | | | |
| | | Brown fine SAND, some silt (dry) | 2 | S-1B | SS | | 2 | | | S-2 at 2ft |
| | | Brown fine-medium SAND, some silt (dry) | 3 | S-2 | SS | 15 | 1 | 5 | | Drill to 4.0ft. Drive casing to 4.0ft. Easy drilling |
| | | Brown fine-medium SAND, some silt (dry) | 4 | | | | 2 | | | S-3 at 4ft |
| | | Brown fine-medium SAND, some silt (dry) | 5 | S-3 | SS | 10 | 8 | 15 | | S-4 at 6ft |
| | | Brown fine-medium SAND, some silt (dry) | 6 | | | | 9 | | | |
| | | Brown fine-medium SAND, some silt (dry) | 7 | S-4 | SS | 11 | 4 | 11 | | Drill to 8.0ft. Easy drilling |
| | | Brown fine-medium SAND, trace silt (moist) | 8 | | | | 5 | | | S-5 at 8ft |
| | 123.5 | Brown fine-medium SAND, trace silt (moist) | 9 | S-5 | SS | 16 | 11 | 27 | | S-6 at 10ft |
| | | Brown fine-medium SAND, some silt (moist) | 10 | | | | 13 | | | |
| | | Brown fine-medium SAND, some silt (moist) | 11 | S-6 | SS | 17 | 14 | 25 | | Drill to 15.0ft. Easy drilling |
| | | Brown fine-coarse SAND, trace silt, trace fine gravel (moist) | 12 | | | | 18 | | | |
| | | | 13 | | | | 12 | | | |
| | | | 14 | | | | 13 | | | |
| | | | 15 | S-7 | SS | 10 | 15 | 21 | | S-7 at 15ft |
| | | | 16 | | | | 11 | | | |
| | | | 17 | | | | 10 | | | Drill to 20.0ft. Light rig chatter |
| | | | 18 | | | | 12 | | | |
| | | | 19 | | | | | | | |
| | 111.5 | | 20 | | | | | | | |

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| Project | | Project No. | | | | | | | | |
|--|------------|---|---|-------------|------------------------|----------------------|------------------------|---|---|-------------------------------------|
| Hudson Logistics Center | | 151010101 | | | | | | | | |
| Location | | Elevation and Datum | | | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 131.5 (NGVD29) | | | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | | |
| | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | | N-Value (Blows/ft) | |
|  | +111.5 | Brown fine-coarse SAND, some silt, trace fine gravel, trace weathered rock, (moist)[TILL] | 20 | | | | | | S-8 at 20ft | |
| | 21 | | S-8 | SS | 14 | 22 31 45 35 | | 76 | | |
| | 22 | | | | | | | | | |
| | | | Brown fine-coarse SAND, some silt, trace fine gravel, trace weathered rock, (moist)[TILL] | 23 | | | | | | Drill to 25.0ft. Medium rig chatter |
| | 24 | | | | | | | | | |
| | 25 | S-9 | | SS | 6 | 25 64 50/3 | | 50/3 | | |
| | | | Brown fine-coarse SAND, some silt, trace fine gravel, trace weathered rock, (moist)[TILL] | 26 | | | | | | Drill to 30.0ft. Medium rig chatter |
| | 27 | | | | | | | | | |
| | 28 | | | | | | | | | |
| | | | Brown fine-coarse SAND, some silt, trace fine gravel, trace weathered rock, (moist)[TILL] | 29 | | | | | | S-10 at 30ft |
| 30 | S-10 | SS | | 10 | 21 20 46 50/5 | | 66 | | | |
| 31 | | | | | | | | | | |
| | +99.5 | Bottom of Boring | 32 | | | | | | Bottom of boring at 6/25/2020 Observation well installed. Refer to well construction log. | |
| | | | 33 | | | | | | | |
| | | | 34 | | | | | | | |
| | | | 35 | | | | | | | |
| | | | 36 | | | | | | | |
| | | | 37 | | | | | | | |
| | | | 38 | | | | | | | |
| | | | 39 | | | | | | | |
| | | | 40 | | | | | | | |
| | | | 41 | | | | | | | |
| | | | 42 | | | | | | | |
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| | | | 44 | | | | | | | |
| | | | 45 | | | | | | | |

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| | | | | | | | |
|--|--|-------------------------|-----------------|---|--|--------------------------|------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 134 (NGVD29) | | | |
| Drilling Company Atlantic Testing Laboratories | | | | Date Started 6/24/20 | | Date Finished 6/29/20 | |
| Drilling Equipment Geoprobe 7822DT | | | | Completion Depth 37 ft | | Rock Depth 38 ft | |
| Size and Type of Bit 3-7/8in Tricone Roller Bit | | | | Number of Samples | | Disturbed 11 | Undisturbed - |
| Casing Diameter (in) 4in | | Casing Depth (ft) 35 | | Water Level (ft.) First 15 | | Completion N/A | 24 HR. N/A |
| Casing Hammer Automatic | | Weight (lbs) 140 | Drop (in) 30 | Drilling Foreman Ben Cray | | | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Justin Hall/Elyssa Schwendy | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | Drop (in) 30 | | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | | |
|-----------------|------------|--|-------------|-------------|------|-------------|-----------------------|---|-------------------------------|----------------------|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | | N-Value (Blows/ft) | |
| | 134.0 | | 0 | | | | | | Started Drilling at 6/24/2020 | |
| | 133.5 | 6" Dark brown fine-coarse SAND, some silt, trace roots (moist) [TOPSOIL] | | S-1A | | | 2 | | | S-1 at 0ft |
| | | Light brown silty fine-medium SAND (dry) | 1 | S-1B | SS | 16 | 2 | 4 | | |
| | | Light brown fine-medium SAND, some silt (dry) | 2 | | | | 2 | | | S-2 at 2ft |
| | | Light brown fine-medium SAND, some silt (moist) | 3 | S-2 | SS | 16 | 2 | 5 | | |
| | | Light brown fine-medium SAND, some silt (moist) | 4 | | | | 3 | | | Drive casing to 4ft |
| | | Light brown fine-medium SAND, some silt (moist) | 5 | S-3 | SS | 15 | 6 | 11 | | S-3 at 4ft |
| | | Light brown fine-medium SAND, some silt (moist) | 6 | | | | 5 | | | S-4 at 6ft |
| | | Light brown fine-medium SAND, some silt (moist) | 7 | S-4 | SS | 11 | 5 | 12 | | |
| | 125.6 | Light brown fine-medium SAND, some silt (moist) | 8 | S-5A | | | 6 | | | Drive casing to 8ft |
| | | Light brown fine-coarse SAND, trace silt (moist) | 9 | S-5B | SS | 10 | 7 | 17 | | S-5 at 8ft |
| | | Light brown fine-coarse SAND, trace silt (moist) | 10 | | | | 10 | | | S-6 at 10ft |
| | | | 11 | S-6 | SS | 22 | 11 | 23 | | |
| | | | 12 | | | | 12 | | | |
| | | | 13 | | | | | | | |
| | | | 14 | | | | | | | |
| | | Light brown fine-coarse SAND, some fine gravel, trace silt (wet) | 15 | | | | 13 | | | Drive casing to 15ft |
| | | | 16 | S-7 | SS | 8 | 9 | 22 | | S-7 at 15ft |
| | | | 17 | | | | 13 | | | |
| | | | 18 | | | | 7 | | | |
| | | | 19 | | | | | | | |
| | | | 20 | | | | | | | |

| Project | | Project No. | | | | | | | |
|-----------------------------|------------|---|-------------|-------------|------|-------------|------------------------|--|--------------------|
| Hudson Logistics Center | | 151010101 | | | | | | | |
| Location | | Elevation and Datum | | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 134 (NGVD29) | | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
| | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | | N-Value (Blows/ft) |
| [Symbol: Dotted pattern] | +114.0 | Light brown fine-coarse SAND, some fine gravel, trace silt (wet) | 20 | | | | | Drive casing to 20ft S-8 at 20ft | |
| | | | S-8 | SS | 7 | 7 | 16 | | |
| [Symbol: Diagonal hatching] | +111.0 | Light brown fine-medium SAND, some silt, some fine gravel (wet)[TILL] | 21 | | | | | Drive casing to 25ft S-9 at 25ft | |
| | | | 22 | | | | | | |
| | | | 23 | | | | | | |
| | | | 24 | | | | | | |
| | | | 25 | | | | | | |
| | | | 26 | S-9 | SS | 14 | 54 | | 92 |
| | | | 27 | | | | 45 | | |
| | | | 28 | | | | 47 | | |
| | | | 29 | | | | 45 | | |
| | | | 30 | | | | | | |
| [Symbol: Diagonal hatching] | +96.0 | Light gray fine-coarse SAND, some fine gravel, trace silt (wet)[TILL] | 30 | | | | | Drive casing to 30ft S-10 at 30ft | |
| | | | 31 | S-10 | SS | 7 | 16 | | 55 |
| | | | 32 | | | | 25 | | |
| | | | 33 | | | | 30 | | |
| [Symbol: Diagonal hatching] | +96.0 | Gray fine-coarse SAND, some fine gravel, trace silt (wet)[TILL] | 34 | | | | | Drive casing to 35ft S-11 at 35ft | |
| | | | 35 | | | | | | |
| | | | 36 | S-11 | SS | 11 | 34 | | 54 |
| | | | 37 | | | | 22 | | |
| [Symbol: Blank] | +96.0 | Inferred Top of Bedrock Bottom of Boring | 38 | | | | | Roller bit refusal at 38ft Bottom of boring at 6/29/2020 Boring backfilled with soil cuttings. | |
| | | | 39 | | | | | | |
| | | | 40 | | | | | | |
| | | | 41 | | | | | | |
| | | | 42 | | | | | | |
| | | | 43 | | | | | | |
| | | | 44 | | | | | | |
| | | | 45 | | | | | | |

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|---|--|--------------------------|------------------|---|--|--------------------------|------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 132 (NGVD29) | | | |
| Drilling Company Seaboard Drilling, Inc | | | | Date Started 6/25/20 | | Date Finished 6/25/20 | |
| Drilling Equipment Mobile Drill B53 | | | | Completion Depth 21 ft | | Rock Depth 21 ft | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 8 | Undisturbed - |
| Casing Diameter (in) N/A | | Casing Depth (ft) N/A | | Water Level (ft.) First 8.5 | | Completion N/A | 24 HR. N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | Drop (in) N/A | Drilling Foreman Jeff Nitsch | | | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Reid Balkind | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | Drop (in) 30 | | | | |

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| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) |
|-----------------|------------|---|-------------|-------------|------|-------------|-----------------------|--------------------|---|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | N-Value (Blows/ft) | |
| | 132.0 | | 0 | S-1A | SS | 2 | 2 | | Started Drilling at 6/25/2020 |
| | 131.7 | 3" Dark brown fine SAND, trace silt, trace roots (dry) [TOPSOIL] | 0 | | | | 3 | | S-1 at 0ft |
| | | Light brown silty fine SAND (dry) | 1 | S-1B | SS | 16 | 2 | 5 | |
| | | Light brown fine SAND, some silt (dry) | 2 | | | | 2 | | S-2 at 2ft |
| | | | 3 | S-2 | SS | 16 | 3 | 6 | |
| | | | 4 | | | | 3 | | Auger to 4ft |
| | | Light brown fine SAND, some silt (moist) | 5 | S-3 | SS | 16 | 4 | 7 | S-3 at 4ft |
| | | | 6 | | | | 4 | | S-4 at 6ft |
| | 125.5 | Light brown fine SAND, some silt (moist) | 6 | S-4A | SS | 17 | 5 | 12 | |
| | | Brown to dark brown fine-coarse SAND, trace silt, trace fine gravel (moist) | 7 | | | | 7 | | Auger to 8ft |
| | | Brown to dark brown fine-coarse SAND, trace silt, trace fine gravel (wet) | 8 | S-4B | SS | 15 | 2 | 4 | S-5 at 8ft |
| | | | 9 | S-5 | SS | 15 | 2 | | |
| | | | 10 | | | | 3 | | S-6 at 10ft |
| | | Brown to dark brown fine-coarse SAND, trace silt, trace fine gravel (wet) | 11 | S-6 | SS | 18 | 7 | 12 | |
| | | | 12 | | | | 5 | | |
| | | | 13 | | | | | | |
| | | | 14 | | | | | | |
| | | | 15 | S-7A | SS | 22 | 18 | | Auger to 15ft |
| | 116.5 | Brown to dark brown fine-coarse SAND, trace silt, trace fine gravel (wet) | 15 | | | | 37 | 78 | S-7 at 15ft |
| | | Brown to brown fine-medium SAND, some silt, trace f-c gravel, trace weathered gravel (moist) [TILL] | 16 | S-7B | SS | 8 | 41 | | |
| | | | 17 | | | | 52 | | |
| | | | 18 | | | | | | |
| | | | 19 | | | | | | |
| | | Brown fine-medium SAND, some silt, trace f-c gravel, trace weathered gravel (moist) [TILL] | 20 | S-8 | SS | 8 | 33 | | Auger to 20ft |
| | 111.3 | Inferred Top of Bedrock | 20 | | | | 50/3 | | S-8 at 20ft |
| | | | 21 | | | | | 50/3 | Bottom of boring at 6/25/2020 |
| | | Bottom of Boring | 21 | | | | | | Auger and spoon refusal encountered. |
| | | | 22 | | | | | | Boring backfilled with auger cuttings. |
| | | | 23 | | | | | | |

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|---|--|---------------------|--|---|--|-----------------------------------|-------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 140.5 (NGVD29) | | | |
| Drilling Company Seaboard Drilling, Inc | | | | Date Started 6/25/20 | | Date Finished 6/25/20 | |
| Drilling Equipment Mobile Drill B53 | | | | Completion Depth 15.5 ft | | Rock Depth N/E | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 7 | Undisturbed - |
| Casing Diameter (in) N/A | | | | Casing Depth (ft) N/A | | Water Level (ft.) First N/E | Completion N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Jeff Nitsch | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Reid Balkind | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|---|-------------|-------------|------|-------------|-----------------------|--------------------|---|---|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | N-Value (Blows/ft) | | |
| | 140.5 | | 0 | | | | | | | |
| | 140.0 | 6" Dark brown fine-medium SAND, trace silt, trace roots (dry) [TOPSOIL] | | S-1A | | 3 | | | | Started Drilling on 6/25/2020 S-1 at 0ft |
| | | Light brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 1 | S-1B | SS | 18 | 3 | | | |
| | | Light brown fine-coarse SAND, some fine gravel, trace silt (dry) | 2 | | | 4 | 4 | | | S-2 at 2ft |
| | | Brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 3 | S-2 | SS | 12 | 4 | | | |
| | | Brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 4 | | | 3 | 6 | | | S-3 at 4ft. Auger to 4ft |
| | | Brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 5 | S-3 | SS | 15 | 5 | | | |
| | | Brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 6 | | | 7 | 7 | | | S-4 at 6ft |
| | | Brown fine-coarse SAND, trace silt, trace f-c gravel (moist) | 7 | S-4 | SS | 18 | 8 | | | |
| | | Brown fine-coarse SAND, trace silt, trace f-c gravel (moist) | 8 | | | 5 | 9 | | | Auger to 8ft. S-5 at 8ft |
| | | Brown fine-coarse SAND, trace silt, trace f-c gravel (moist) | 9 | S-5 | SS | 13 | 7 | | | |
| | | Brown fine-coarse SAND, trace silt, trace f-c gravel (moist) | 10 | | | 5 | 10 | | | S-6 at 10ft |
| | | Brown fine-coarse SAND, trace silt, trace f-c gravel (moist) | 11 | S-6 | SS | 14 | 8 | | | |
| | | Brown fine-coarse SAND, trace silt, trace f-c gravel (moist) | 12 | | | 5 | 9 | | | |
| | | Brown fine-coarse SAND, trace silt, trace f-c gravel (moist) | 13 | | | 13 | 13 | | | |
| | | Brown fine-coarse SAND, trace silt, trace f-c gravel (moist) | 14 | S-7 | SS | 12 | 16 | | | Auger to 13.5ft. Hard drilling and heavy chatter at 13.5ft. Auger refusal encountered at 13.5ft. Offset 5ft and redrill boring. S-7 at 13.5ft |
| | 125.0 | Bottom of Boring | 15 | | | | 37 | | | Bottom of boring on 6/25/2020 Boring backfilled with auger cuttings |
| | | | 16 | | | | 22 | | | |
| | | | 17 | | | | 35 | | | |
| | | | 18 | | | | 35 | | | |
| | | | 19 | | | | | | | |
| | | | 20 | | | | | | | |

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|---|--|---------------------|--|---|--|----------------------------------|-------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 140.5 (NGVD29) | | | |
| Drilling Company Seaboard Drilling, Inc | | | | Date Started 6/25/20 | | Date Finished 6/25/20 | |
| Drilling Equipment Mobile Drill B53 | | | | Completion Depth 30 ft | | Rock Depth 30 ft | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 5 | Undisturbed - |
| Casing Diameter (in) N/A | | | | Casing Depth (ft) N/A | | Water Level (ft.) First 26 | Completion N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Jeff Nitsch | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Reid Balkind | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) |
|-----------------|------------|--|-------------|-------------|------|-------------|-----------------------|--------------------|---|
| | | | | Number | Type | Recov. (in) | Penetr. resist. BL/ft | N-Value (Blows/ft) | |
| | 140.5 | | 0 | | | | | | Started Drilling on 6/25/2020 |
| | 140.0 | See sample descriptions on boring A-B-BOR-37 | 1 | | | | | | Offset 5ft from A-B-BOR-37(OW) and redrill to 15ft |
| | | | 2 | | | | | | |
| | | | 3 | | | | | | |
| | | | 4 | | | | | | |
| | | | 5 | | | | | | |
| | | | 6 | | | | | | |
| | | | 7 | | | | | | |
| | | | 8 | | | | | | |
| | | | 9 | | | | | | |
| | | | 10 | | | | | | |
| | | | 11 | | | | | | |
| | | | 12 | | | | | | |
| | | | 13 | | | | | | |
| | | | 14 | | | | | | |
| | 125.5 | Brown to dark gray fine-coarse SAND, some f-c gravel, trace silt (dry) | 15 | | | | | | S-1 at 15ft |
| | | | 16 | S-1 | SS | 19 | 27 | 34 | 93 |
| | | | 17 | | | | 59 | 49 | |
| | | | 18 | | | | | | |
| | | | 19 | | | | | | |
| | | | 20 | | | | | | |

| Project | | Project No. | | | | | | | | |
|---------------------------|------------|---|-------------|-------------|------|-------------|------------------------|---|---|------|
| Hudson Logistics Center | | 151010101 | | | | | | | | |
| Location | | Elevation and Datum | | | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 140.5 (NGVD29) | | | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | | |
| | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | | N-Value (Blows/ft) | |
| | 120.5 | Brown to orangish brown fine-medium SAND, some silt, trace f-c gravel, trace weathered gravel (dry)[TILL] | 20 | S-2 | SS | 8 | 8 | | Auger to 20ft, Hard drilling S-2 at 20ft. | |
| | | | 21 | | | | 42 | 50/3 | | |
| | | | 22 | | | | | | | |
| | | | 23 | | | | | | | |
| | | | 24 | | | | | | | |
| | | | 25 | | S-3 | SS | 9 | 60 | | 55/3 |
| | | | 26 | | | | | 56 | | |
| | | | 27 | | S-4 | SS | 12 | 34 | | 24 |
| | | | 28 | | | | | 20 | | |
| | | | 29 | | | | | | | |
| | 110.2 | No Recovery Inferred Top of Bedrock | 30 | S-5 | SS | 0 | 50/3 | | Auger to 30ft S-5 at 30ft | |
| | | Bottom of Boring | 31 | | | | | | Auger and spoon refusal encountered at 30ft. | |
| | | | 32 | | | | | | Bottom of boring on 6/25/2020 | |
| | | | 33 | | | | | | Observation well installed, refer to well construction log. | |
| | | | 34 | | | | | | | |
| | | | 35 | | | | | | | |
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| | | | | | | | |
|---|--|--------------------------|--|---|--|---------------------------------|--|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 143 (NGVD29) | | | |
| Drilling Company Seaboard Drilling, Inc | | | | Date Started 6/23/20 | | Date Finished 6/23/20 | |
| Drilling Equipment Diedrich D50 | | | | Completion Depth 33.5 ft | | Rock Depth 33.5 ft | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples Disturbed 10 | | Undisturbed - Core - | |
| Casing Diameter (in) N/A | | Casing Depth (ft) N/A | | Water Level (ft.) First 27 | | Completion N/A 24 HR. N/A | |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Jeff Nitsch | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Reid Balkind | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) |
|-----------------|------------|---|-------------|-------------|------|-------------|-----------------------|--------------------|---|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | N-Value (Blows/ft) | |
| | 143.0 | | 0 | S-1A | SS | 2 | 2 | | Started Drilling at 6/23/2020 |
| | 142.7 | 4" Dark brown fine-medium SAND, trace silt, trace roots (dry) [TOPSOIL] | | | | | | | S-1 at 0ft |
| | | Light brown fine-medium SAND, some silt, trace fine gravel (dry) | 1 | S-1B | SS | 15 | 2 | | |
| | | Light brown fine-medium SAND, some silt, trace fine gravel (dry) | 2 | | | | 3 | | S-2 at 2ft |
| | | Light brown fine-coarse SAND, some silt, trace fine gravel (moist) | 3 | S-2 | SS | 16 | 2 | | |
| | | | 4 | | | | 3 | | Auger to 4ft |
| | | | 5 | S-3 | SS | 12 | 5 | | S-3 at 4ft |
| | | | 6 | | | | 6 | | |
| | 136.4 | Light brown fine-coarse SAND, trace silt, trace fine gravel (moist) | 6 | S-4A | SS | 15 | 5 | | S-4 at 6ft |
| | | Light brown SILT, some fine sand (moist) | 7 | | | | 6 | | |
| | | | 8 | S-4B | SS | 15 | 6 | | |
| | 135.0 | Brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 8 | | | | 10 | | Auger to 8ft |
| | | | 9 | S-5 | SS | 20 | 6 | | S-5 at 8ft |
| | | | 10 | | | | 11 | | |
| | | Brown fine-coarse SAND, some silt, trace fine gravel (moist) | 10 | | | | 10 | | S-6 at 10ft |
| | | | 11 | S-6 | SS | 18 | 7 | | |
| | | | 12 | | | | 7 | | |
| | | | 13 | | | | 8 | | |
| | | | 14 | | | | 9 | | |
| | | Brown fine-medium SAND, trace silt (moist) | 15 | | | | 5 | | Auger to 15ft, Easy drilling |
| | | | 16 | S-7 | SS | 17 | 7 | | S-7 at 15ft |
| | | | 17 | | | | 9 | | |
| | | | 18 | | | | 10 | | |
| | | | 19 | | | | | | |
| | | | 20 | | | | | | |

| Project | | Project No. | | | | | | | | |
|---------------------------|------------|---|--|-------------|------|-------------|------------------------|---|--|--|
| Hudson Logistics Center | | 151010101 | | | | | | | | |
| Location | | Elevation and Datum | | | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 143 (NGVD29) | | | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | | |
| | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | | N-Value (Blows/ft) | |
| | 123.0 | Brown fine-medium SAND, some silt (moist) | 20 | | | | | | Auger to 20ft, Easy drilling, light chatter S-8 at 20ft | |
| | | | 21 | S-8 | SS | 18 | 7 11 12 13 | 23 | | |
| | | | 22 | | | | | | | |
| | | | Brown fine-coarse SAND, trace silt, trace f-c gravel (wet) | 25 | | | | | | Auger to 25ft, Easy drilling S-9 at 25ft |
| | | | 26 | S-9 | SS | 20 | 6 6 8 10 | 14 | | |
| | | | 27 | | | | | | | |
| | | | Brown fine-coarse SAND, trace silt, trace f-c gravel (wet) | 30 | | | | | | Auger to 30ft, Easy drilling S-10 at 30ft |
| | | | 31 | S-10 | SS | 16 | 6 5 5 6 | 10 | | |
| | | | 32 | | | | | | | |
| | | | Inferred Top of Bedrock | 33 | | | | | | Auger refusal encountered at 33.5ft Bottom of boring at 6/23/2020 Boring backfilled with auger cuttings. |
| | | Bottom of Boring | 34 | | | | | | | |
| | | | 35 | | | | | | | |
| | | | 36 | | | | | | | |
| | | | 37 | | | | | | | |
| | | | 38 | | | | | | | |
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|---|--|---------------------|--|---|--|---------------------------------|-------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 143 (NGVD29) | | | |
| Drilling Company SoilTesting, Inc. | | | | Date Started 6/22/20 | | Date Finished 6/22/20 | |
| Drilling Equipment Diedrich D50 | | | | Completion Depth 27 ft | | Rock Depth 27 ft | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 10 | Undisturbed - |
| Casing Diameter (in) N/A | | | | Casing Depth (ft) N/A | | Water Level (ft.) First 8 | Completion N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | 24 HR. N/A | |
| Casing Hammer Safety | | | | Weight (lbs) 140 | | Drop (in) 30 | |
| Sampler 2-inch-diameter split spoon | | | | Drilling Foreman Mike Kennedy | | | |
| Sampler Hammer | | | | Field Engineer Taylor Sisti | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|---|-------------|-------------|------|-------------|-----------------------|---|--|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | | N-Value (Blows/ft) |
| | 143.0 | | 0 | S-1A | SS | 4 | 4 | 10 | Started Drilling at 6/22/2020 S-1 at 0ft |
| | 142.8 | 3" Brown fine-medium SAND, some silt, trace fine gravel, some roots (dry) [TOPSOIL] | 1 | S-1B | SS | 11 | 5 | 9 | |
| | 141.0 | Brown fine-medium SAND, some silt, trace fine gravel, trace roots (dry) | 2 | | | 4 | 5 | | S-2 at 2ft |
| | | Brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 3 | S-2 | SS | 22 | 5 | 9 | |
| | | | 4 | | | 4 | 5 | | Auger to 4ft |
| | | Brown fine SAND, trace silt (moist) | 5 | S-3 | SS | 10 | 8 | 11 | S-3 at 4ft |
| | | | 6 | | | 4 | 5 | | |
| | | Brown fine-coarse SAND, trace silt, trace fine gravel (moist) | 7 | S-4A | SS | 16 | 7 | 23 | S-4 at 6ft |
| | 136.0 | Brown fine SAND, some silt (moist) | 8 | S-4B | SS | 12 | 11 | | Auger to 8ft |
| | 135.0 | Brown fine-medium SAND, trace silt (wet) | 9 | S-5A | SS | 12 | 10 | 27 | S-5 at 8ft |
| | | | 10 | S-5B | SS | 12 | 15 | | |
| | | Brown fine-coarse SAND, trace silt, trace fine gravel (wet) | 11 | S-6 | SS | 17 | 12 | 18 | S-6 at 10ft |
| | | Brown fine-coarse SAND, trace silt, trace f-c gravel (wet) | 12 | | | 8 | 10 | | |
| | | | 13 | | | 9 | 9 | | Auger to 15ft, easy drilling |
| | | | 14 | | | | | | |
| | | Brown fine-coarse SAND, trace silt, trace f-c gravel (wet) | 15 | S-7 | SS | 14 | 9 | 21 | S-7 at 15ft |
| | | | 16 | | | 11 | 10 | | |
| | | | 17 | | | 9 | 9 | | |
| | | | 18 | | | | | | Auger to 20ft, easy drilling |
| | | | 19 | | | | | | |
| | | | 20 | | | | | | |

| Project | | Project No. | | | | | | |
|---------------------------|------------|--|-------------|-------------|------|-------------|-----------------------|---|
| Hudson Logistics Center | | 151010101 | | | | | | |
| Location | | Elevation and Datum | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 143 (NGVD29) | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) |
| | | | | Number | Type | Recov. (in) | Penetr. resist BU/6in | |
| | 123.0 | Brown fine-coarse SAND, some f-c gravel, trace silt (wet) | 20 | | | | | S-8 at 20ft |
| | | | 21 | S-8 | SS | 15 | 12 | |
| | | | 22 | | | | | |
| | | | 23 | | | | | Auger to 25ft, moderate drilling |
| | 119.0 | Brown silty fine-medium SAND, some f-c gravel (wet) [TILL] | 24 | | | | | |
| | | | | 25 | | | | |
| | | | 26 | S-9 | SS | 15 | 17 | 44 |
| | | | 27 | | | | 19 | Auger to 27ft, auger refusal S-10 at 27ft, spoon refusal, spoon bouncing Bottom of boring at 6/22/2020 Boring backfilled with auger cuttings. |
| | 116.0 | No Recovery Inferred Top of Bedrock | 27 | S-10 | SS | 0 | 50/0 | |
| | | Bottom of Boring | 28 | | | | | |
| | | | 29 | | | | | |
| | | | 30 | | | | | |
| | | | 31 | | | | | |
| | | | 32 | | | | | |
| | | | 33 | | | | | |
| | | | 34 | | | | | |
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|--|--|--|--|---|--|--------------------------|--|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 144.5 (NGVD29) | | | |
| Drilling Company Atlantic Testing Laboratories | | | | Date Started 6/19/20 | | Date Finished 6/19/20 | |
| Drilling Equipment Geoprobe 7822 DT | | | | Completion Depth 34 ft | | Rock Depth 34 ft | |
| Size and Type of Bit 2-7/8in Tricone Roller Bit | | | | Number of Samples | | Disturbed | |
| Casing Diameter (in) 4in | | | | Casing Depth (ft) 30 | | Undisturbed | |
| Casing Hammer Automatic | | | | Weight (lbs) 140 | | Drop (in) 30 | |
| Sampler 2-inch-diameter split spoon | | | | Number of Samples | | Disturbed | |
| Sampler Hammer Automatic | | | | Weight (lbs) 140 | | Drop (in) 30 | |
| | | | | Water Level (ft.) | | First | |
| | | | | Drilling Foreman Ben Cray | | Completion | |
| | | | | Field Engineer Kenneth Idem | | 24 HR. | |
| | | | | | | N/A | |
| | | | | | | 16.4 | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|---|-------------|-------------|------|-------------|-----------------------|--------------------|---|---|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | N-Value (Blows/ft) | | |
| | 144.5 | | 0 | | | | | | | |
| | 144.1 | 10" Dark brown fine SAND, trace silt, trace roots (dry) [TOPSOIL] | | S-1A | | 1 | | | | Started Drilling at 6/19/2020 S-1 at 0ft |
| | | Light brown fine-coarse SAND, some fine gravel, trace silt (dry) | 1 | S-1B | SS | 14 | 4 | 10 | | |
| | | Light brown fine-coarse SAND, some fine gravel, trace silt (dry) | 2 | | | 4 | 6 | | | S-2 at 2ft |
| | | Light brown fine-medium SAND, trace silt, trace fine gravel (moist) | 3 | S-2 | SS | 14 | 3 | 5 | | |
| | | Light brown fine-coarse SAND, some silt, trace fine gravel (moist) | 4 | | | 4 | 4 | | | Drill to 4.0ft, Easy drilling, Light brown wash |
| | | Light brown silty fine-medium SAND (moist) | 5 | S-3 | SS | 13 | 4 | 10 | | S-3 at 4ft |
| | | Light brown silty fine-medium SAND (moist) | 6 | | | 9 | 6 | | | S-4 at 6ft |
| | | Light brown silty fine-medium SAND (moist) | 7 | S-4 | SS | 16 | 8 | 20 | | |
| | | Light brown silty fine-medium SAND (moist) | 8 | | | 5 | 9 | | | Drill to 8.0ft, Easy drilling, Light brown wash |
| | | Light brown silty fine-medium SAND (moist) | 9 | S-5 | SS | 7 | 7 | 14 | | S-5 at 8ft |
| | | Light brown silty fine-medium SAND (moist) | 10 | | | 7 | 7 | | | S-6 at 10ft |
| | | Light brown fine-coarse SAND, some silt (moist) | 11 | S-6 | SS | 17 | 8 | 19 | | |
| | | Light brown fine-coarse SAND, some silt (moist) | 12 | | | 11 | 11 | | | Drill to 15.0ft, Easy drilling, Light brown wash |
| | | Light brown fine-coarse SAND, some silt (moist) | 13 | | | | | | | |
| | | Light brown fine-coarse SAND, some silt (moist) | 14 | | | | | | | |
| | | Light brown fine-coarse SAND, some silt (moist) | 15 | | | | | | | S-7 at 15ft |
| | | Light brown fine-coarse SAND, some silt (moist) | 16 | S-7 | SS | 10 | 12 | 42 | | |
| | | Light brown fine-coarse SAND, some silt (moist) | 17 | | | 10 | 15 | | | Drill to 20.0ft, Easy drilling, Light Chattering, Light Brown wash |
| | | Light brown fine-coarse SAND, some silt (moist) | 18 | | | 10 | 27 | | | |
| | | Light brown fine-coarse SAND, some silt (moist) | 19 | | | 10 | 27 | | | |
| | | Light brown fine-coarse SAND, some silt (moist) | 20 | | | 10 | 27 | | | |

| Project | | Project No. | | | | | | | | | |
|---------------------------|------------|---|---|-------------|------|-------------|------------------------|---|--------------------|---|--|
| Hudson Logistics Center | | 151010101 | | | | | | | | | |
| Location | | Elevation and Datum | | | | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 144.5 (NGVD29) | | | | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | | | |
| | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | | N-Value (Blows/ft) | | |
| | 124.5 | Light brown fine-coarse SAND, some fine gravel, trace silt (moist) [TILL] | 20 | | | | | | | | |
| | | | 21 | S-8 | SS | 9 | 16 | 20 | 36 | S-8 at 20ft | |
| | | | 22 | | | | 16 | | | Drill to 25.0ft, Moderate drilling, Medium Chattering, Light Brown wash | |
| | | | 23 | | | | 17 | | | | |
| | | | 24 | | | | | | | | |
| | | | Light brown fine SAND, some silt, trace fine gravel (moist) [TILL] | 25 | | | | 16 | | | S-9 at 25ft |
| | | | | 26 | S-9 | SS | 10 | 27 | 30 | 57 | Drill to 30.0ft, Moderate drilling, Light Chattering, Light brown wash |
| | | | | 27 | | | | 46 | | | |
| | | | | 28 | | | | | | | |
| | | | Light brown fine-medium SAND, some silt, trace fine gravel (moist) [TILL] | 30 | | | | 42 | | | S-10 at 30ft |
| | | | | 31 | S-10 | SS | 12 | 29 | 35 | 64 | Drill to 35.0ft, Hard drilling, Heavy Chattering, Light brown wash |
| | | | 32 | | | | 28 | | | | |
| | | | 33 | | | | | | | | |
| | | No Recovery Inferred Top of Bedrock | 34 | S-11 | SS | 0 | 50/0 | | 50/0 | S-11 at 34ft. | |
| | 110.5 | Bottom of Boring | 35 | | | | | | | Roller bit and spoon refusal at 34ft | |
| | | | 36 | | | | | | | Bottom of boring at 6/19/2020 | |
| | | | 37 | | | | | | | Boring backfilled with soil cuttings | |
| | | | 38 | | | | | | | | |
| | | | 39 | | | | | | | | |
| | | | 40 | | | | | | | | |
| | | | 41 | | | | | | | | |
| | | | 42 | | | | | | | | |
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|--|--|-------------------------|--|---|--|---|--|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 147 (NGVD29) | | | |
| Drilling Company Atlantic Testing Laboratories | | | | Date Started 7/1/20 | | Date Finished 7/2/20 | |
| Drilling Equipment Geoprobe 7822 DT | | | | Completion Depth 29.5 ft | | Rock Depth 29.5 ft | |
| Size and Type of Bit 3-7/8in Tricone Roller Bit | | | | Number of Samples Disturbed 10 | | Undisturbed - Core - | |
| Casing Diameter (in) 4in | | Casing Depth (ft) 29 | | Water Level (ft.) First ∇ 15 | | Completion ∇ 19 24 HR. ∇ N/A | |
| Casing Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | Drilling Foreman Ben Cray | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Olivia Chasse | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | | |
|-----------------|------------|--|-------------|-------------|------|-------------|-----------------------|---|--------------------|---|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | | N-Value (Blows/ft) | |
| | 147.0 | | 0 | | | | | | | |
| | 146.5 | 6" Brown fine-medium SAND, trace silt, trace roots (dry) [TOPSOIL] | | S-1A | | | 1 | | | Started Drilling at 7/1/2020 S-1 at 0ft |
| | | Light brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 1 | S-1B | SS | 18 | 4 | 9 | | |
| | | Light brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 2 | | | | 5 | | | S-2 at 2ft |
| | | Brown gravelly fine-coarse SAND, trace silt (moist) | 3 | S-2 | SS | 13 | 6 | 12 | | |
| | | | 4 | | | | 7 | | | |
| | | | 5 | S-3 | SS | 8 | 10 | 13 | | Drive casing to 4.0ft Drill to 4.0ft, easy drilling S-3 at 4ft |
| | | | 6 | | | | 9 | | | |
| | 141.0 | Brown fine-medium SAND, some silt, trace fine gravel (moist) | 6 | S-4 | SS | 2 | 13 | 20 | | S-4 at 6ft |
| | | No Recovery | 7 | | | | 12 | | | |
| | | | 8 | | | | 8 | | | S-5 at 8ft |
| | | | 9 | S-5 | SS | 0 | 24 | 49 | | |
| | | | 10 | | | | 24 | | | Drill to 10.0ft., moderate drilling S-6 at 10ft |
| | 137.0 | Brown fine-coarse SAND, some silt, some fine gravel (moist) [TILL] | 10 | S-6 | SS | 5 | 14 | 24 | | |
| | | | 11 | | | | 10 | | | |
| | | | 12 | | | | 14 | | | |
| | | | 13 | | | | | | | |
| | | | 14 | | | | | | | |
| | | Brown fine-coarse SAND, some silt, some fine gravel (wet) [TILL] | 15 | S-7 | SS | 5 | 20 | 35 | | Drive casing to 14.0ft Drill to 14.0ft, moderate drilling S-7 at 14ft |
| | | | 16 | | | | 23 | | | |
| | | | 17 | | | | 12 | | | |
| | | | 18 | | | | 14 | | | |
| | | | 19 | | | | | | | |
| | | | 20 | | | | | | | |

| | |
|---------------------------------------|---|
| Project Hudson Logistics Center | Project No. 151010101 |
| Location 59 Steele Road, Hudson NH | Elevation and Datum Elev. + 147 (NGVD29) |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | N-Value (Blows/ft) | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) |
|--|------------|--|-------------|-------------|------|-------------|------------------------|--------------------|---|
| | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | | |
|  | 127.0 | Brown fine-medium SAND, some silt, some fine gravel, trace weathered rock fragments (wet) [TILL] | 20 | S-8 | SS | 3 | 43 50/2 | 50/2 | Drive casing to 20.0ft Drill to 20.0ft, moderate to hard drilling S-8 at 20ft |
| | | | 21 | | | | | | |
| | | | | 22 | | | | | |
| | | Brown fine-medium SAND, some silt, some fine gravel, trace weathered rock fragments (wet) [TILL] | 25 | S-9 | SS | 3 | 50/5 | 50/5 | Drill to 25.0ft, moderate drilling S-9 at 25ft |
| | | | 26 | | | | | | |
| | | | 27 | | | | | | |
| | | Brown fine-medium SAND, some silt, some fine gravel, some weathered rock fragments (wet) [TILL] | 28 | | | | | | |
| | | Inferred Top of Bedrock | 29 | S-10 | SS | 3 | 50/5 | 50/5 | Drill to 29.0ft, hard drilling S-10 at 29ft Bottom of boring at 7/2/2020 Boring backfilled with soil cuttings. |
| | | | 30 | | | | | | |
| | | Bottom of Boring | 31 | | | | | | |
| | | | 32 | | | | | | |
| | | | 33 | | | | | | |
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| | | | | | | | |
|---|--|--------------------------|--|---|--|---------------------------------|------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 132 (NGVD29) | | | |
| Drilling Company Seaboard Drilling, Inc | | | | Date Started 6/4/20 | | Date Finished 6/4/20 | |
| Drilling Equipment Diedrich D50 | | | | Completion Depth 23.5 ft | | Rock Depth 23.5 ft | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 9 | Undisturbed - |
| Casing Diameter (in) N/A | | Casing Depth (ft) N/A | | Water Level (ft.) First 15 | | Completion N/A | 24 HR. N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Jeff Nitsch | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Taylor Sisti | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | | |
|-----------------|------------|--|-------------|-------------|------|-------------|-----------------------|--------------------|---|------------------------------|------------------------------|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | N-Value (Blows/ft) | | | |
| | 132.0 | | 0 | | | | | | | Started Drilling at 6/4/2020 | |
| | 131.3 | 8" Light brown fine-medium SAND, some silt, some roots (moist) [TOPSOIL] | | S-1A | SS | 13 | 2 | | | | S-1 at 0ft |
| | | Light brown fine-medium SAND, some silt, trace roots (moist) | 1 | S-1B | SS | 2 | 2 | | | | S-2 at 2ft |
| | | Light brown fine-medium SAND, trace silt (moist) | 2 | | | | 2 | | | | Auger to 4ft |
| | | Light brown fine SAND, trace silt (moist) | 3 | S-2 | SS | 12 | 2 | | | | S-3 at 4ft |
| | | Light brown fine SAND, trace silt (moist) | 4 | | | | 2 | | | | S-4 at 6ft |
| | | Light brown fine SAND, trace silt, with silty fine sand lenses trace roots (moist) | 5 | S-3 | SS | 15 | 3 | | | | S-4 at 6ft |
| | | Light brown sandy SILT, trace fine gravel (moist) | 6 | | | | 4 | | | | Auger to 8ft |
| | | Brown fine-coarse SAND, some fine gravel, trace silt (moist) | 7 | S-4 | SS | 19 | 5 | | | | S-5 at 8ft |
| | | | 8 | | | | 6 | | | | Auger to 10ft |
| | | | 9 | S-5 | SS | 18 | 4 | | | | S-6 at 10ft |
| | | | 10 | | | | 8 | | | | Auger to 15ft, easy drilling |
| | | | 11 | S-6 | SS | 11 | 5 | | | | S-7 at 15ft |
| | | | 12 | | | | 10 | | | | |
| | | | 13 | | | | 8 | | | | |
| | | | 14 | | | | 7 | | | | |
| | | | 15 | S-7A | SS | 19 | 4 | | | | |
| | | | 16 | S-7B | SS | 50/5 | 6 | | | | |
| | | | 17 | | | | 7 | | | | |
| | | | 18 | | | | 50/5 | | | | |
| | | | 19 | | | | | | | | |
| | | | 20 | | | | | | | | Auger to 20ft, easy drilling |

| Project | | Project No. | | | | | | | |
|---------------------------|------------|--|-------------|-------------|------|-------------|------------------------|---|---|
| Hudson Logistics Center | | 151010101 | | | | | | | |
| Location | | Elevation and Datum | | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 132 (NGVD29) | | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
| | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | | N-Value (Blows/ft) |
| | 112.0 | Brown fine-coarse SAND, some fine gravel, trace silt (wet) | 20 | | | | 55 | | S-8 at 20ft |
| | 110.4 | Brown to gray fine-coarse GRAVEL, some f-m sand, trace silt (wet) [TILL] | 21 | S-8A | SS | 24 | 18 | 38 | |
| | | No Recovery | 22 | S-8B | | | 20 | | |
| | | Inferred Top of Bedrock | 23 | | | | | | |
| | 108.3 | Bottom of Boring | 24 | S-9 | SS | 0 | 50/2 | 50/2 | Drill to 23.5ft, moderate drilling. S-9 at 23.5ft Auger and split spoon refusal st 23.5ft Bottom of boring at 6/4/2020 Boring backfilled with auger cuttings. |
| | | | 25 | | | | | | |
| | | | 26 | | | | | | |
| | | | 27 | | | | | | |
| | | | 28 | | | | | | |
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| | | | | | | | |
|---|--|--------------------------|--|---|--|---------------------------------|---------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 132 (NGVD29) | | | |
| Drilling Company Seaboard Drilling, Inc | | | | Date Started 6/3/20 | | Date Finished 6/3/20 | |
| Drilling Equipment Diedrich D50 | | | | Completion Depth 25.3 ft | | Rock Depth 25.5 ft | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed | Undisturbed |
| Casing Diameter (in) N/A | | Casing Depth (ft) N/A | | Water Level (ft.) First 15 | | Completion N/A | 24 HR. N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Jeff Nitsch | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Taylor Sisti | | | |
| Sampler Hammer Safety | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|--|-------------|-------------|------|-------------|-----------------------|--------------------|---|------------------------------|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/In | N-Value (Blows/ft) | | |
| | 132.0 | | 0 | | | | | | | Started Drilling at 6/3/2020 |
| | 131.5 | Light brown fine-medium SAND, some silt, some roots (moist) [TOPSOIL] | 0 | S-1A | | 2 | 2 | | | S-1 at 0ft |
| | | Light brown fine-medium SAND, some silt, trace roots (dry) [FILL] | 1 | S-1B | SS | 18 | 2 | 4 | | |
| | | Light brown fine SAND, trace silt (dry) [FILL] | 2 | | | | 2 | | | S-2 at 2ft |
| | | Light brown fine SAND, trace silt (dry) [FILL] | 3 | S-2 | SS | 19 | 3 | 6 | | Auger to 4ft |
| | | Light brown fine SAND, trace silt, about 1/2-inch thick m-c sand seams (moist)[FILL] | 4 | | | | 2 | | | S-3 at 4ft |
| | | Light brown fine SAND, trace silt, about 1/2-inch thick m-c sand seams (moist)[FILL] | 5 | S-3 | SS | 24 | 3 | 7 | | |
| | | Light brown fine-medium SAND, trace silt (moist) [FILL] | 6 | | | | 4 | | | S-4 at 6ft |
| | | Light brown fine-medium SAND, trace silt (moist) [FILL] | 7 | S-4 | SS | 15 | 5 | 11 | | Auger to 8ft |
| | | Light brown fine-coarse SAND, some silt, trace fine gravel (moist) [FILL] | 8 | | | | 6 | | | S-5 at 8ft |
| | 123.5 | Brown medium-coarse SAND, trace silt (moist) | 9 | S-5A | SS | 17 | 6 | 14 | | |
| | | Brown medium-coarse SAND, trace silt (moist) | 10 | S-5B | SS | 17 | 6 | 7 | | |
| | | Brown fine-coarse SAND, trace silt, trace f-c gravel (moist) | 11 | S-6 | SS | 13 | 4 | 11 | | S-6 at 10ft |
| | | | 12 | | | | 7 | | | |
| | | | 13 | | | | 4 | | | |
| | | | 14 | | | | 4 | | | Auger to 15ft, easy drilling |
| | | Brown fine-coarse SAND, some f-c gravel, trace silt (wet) | 15 | S-7 | SS | 17 | 4 | 13 | | S-7 at 15ft |
| | | | 16 | | | | 6 | | | |
| | | | 17 | | | | 7 | | | |
| | | | 18 | | | | 8 | | | |
| | | | 19 | | | | | | | Auger to 20ft, easy drilling |
| | | | 20 | | | | | | | |

| Project | | Project No. | | | | | | |
|---------------------------|------------|--|-------------|-------------|------|-------------|------------------------|---|
| Hudson Logistics Center | | 151010101 | | | | | | |
| Location | | Elevation and Datum | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 132 (NGVD29) | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) |
| | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | |
| [Symbol: Dotted pattern] | 112.0 | Brown gravelly fine-coarse SAND, trace silt (wet) | 20 | | | | 6 | S-8 at 20ft |
| | | | 21 | S-8 | SS | 24 | 8 10 10 | |
| | 106.8 | Brown fine-coarse GRAVEL, some sand, trace silt (wet) Inferred Top of Bedrock | 25 | S-9 | SS | 2 | 50/3 | 50/3 |
| | | Bottom of Boring | 26 | | | | | |
| | | | 27 | | | | | |
| | | | 28 | | | | | |
| | | | 29 | | | | | |
| | | | 30 | | | | | |
| | | | 31 | | | | | |
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Auger to 25ft, moderate drilling
S-9 at 25ft
Auger refusal at 25.3ft
Bottom of boring at 6/3/2020
Boring backfilled with auger cuttings.

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|--|--|---------------------|--|---|--|---------------------------------|--------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 132.5 (NGVD29) | | | |
| Drilling Company Atlantic Testing Laboratories | | | | Date Started 6/3/20 | | Date Finished 6/3/20 | |
| Drilling Equipment CME75 Track Rig | | | | Completion Depth 31 ft | | Rock Depth N/E | |
| Size and Type of Bit 3-7/8in Tricone Roller Bit | | | | Number of Samples | | Disturbed 10 | Undisturbed - |
| Casing Diameter (in) 4in | | | | Casing Depth (ft) 14 | | Water Level (ft.) First 8 | Completion 10.7 |
| Casing Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | Drilling Foreman Brad Perry | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Olivia Chasse | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | | |
|-----------------|------------|---|-------------|-------------|------|-------------|-----------------------|---|------------------------------|------------------------------|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | | N-Value (Blows/ft) | |
| | 132.5 | | 0 | | | | | | Started Drilling at 6/3/2020 | |
| | 131.5 | 12" Dark brown fine-medium SAND, trace silt, trace fine gravel, trace roots (dry) [TOPSOIL] | 1 | S-1A | SS | 20 | 1 | 2 | | S-1 at 0ft |
| | | Light brown fine SAND, trace silt (dry) | 2 | S-1B | SS | | 2 | | | S-2 at 2ft |
| | | Light brown fine SAND, trace silt (dry) | 3 | S-2 | SS | 18 | 1 | 3 | | |
| | | | 4 | | | | 2 | | | Drive casing to 4.0ft. |
| | | Brown fine-medium SAND, trace silt (wet) | 5 | S-3 | SS | 14 | 2 | 4 | | S-3 at 4ft |
| | | | 6 | | | | 2 | | | 1in old topsoil layer at 5ft |
| | | Brown fine-medium SAND, trace silt (moist) | 7 | S-4 | SS | 8 | 4 | 9 | | S-4 at 6ft |
| | | | 8 | | | | 5 | | | Drive casing to 8.0ft. |
| | | Brown fine-coarse SAND, trace silt (wet) | 9 | S-5 | SS | 9 | 3 | 10 | | S-5 at 8ft |
| | | | 10 | | | | 7 | | | Drive casing to 8.0ft. |
| | | Brown fine-coarse SAND, trace fine gravel, trace silt (wet) | 11 | S-6 | SS | 9 | 2 | 11 | | S-6 at 10ft |
| | | | 12 | | | | 7 | | | |
| | | No Recovery | 14 | | | | 5 | | | Drive casing to 14.0ft. |
| | | | 15 | S-7 | SS | 0 | 6 | 10 | | S-7 at 14ft |
| | | | 16 | | | | 4 | | | |
| | | | 17 | | | | 5 | | | |
| | | | 18 | | | | | | | |
| | | | 19 | S-8 | SS | 5 | 5 | | | Drive casing to 14.0ft. |
| | | Brown gravelly fine-coarse SAND, trace silt (wet) | 20 | | | | 6 | 10 | | S-8 at 19ft |

| | |
|---------------------------------------|---|
| Project Hudson Logistics Center | Project No. 151010101 |
| Location 59 Steele Road, Hudson NH | Elevation and Datum Elev. + 132.5 (NGVD29) |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | N-Value (Blows/ft) | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) |
|-----------------|------------|---|-------------|-------------|------|-------------|------------------------|--------------------|---|
| | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | | |
| | 112.5 | Brown gravelly fine-coarse SAND, trace silt (wet) Brown fine-coarse SAND, some fine gravel, trace silt (wet) | 20 | S-8 | SS | 5 | 4 | 16 | S-9 at 24ft S-10 at 29ft Bottom of boring at 6/3/2020 Boring backfilled with soil cuttings |
| | 21 | | | | | 4 | | | |
| | 22 | | | | | | | | |
| | 23 | | | | | | | | |
| | 24 | | | | | | | | |
| | 25 | | S-9 | SS | 5 | 4 | 5 | 9 | |
| | 26 | | | | | | | | |
| | 27 | | | | | | | | |
| | 28 | | | | | | | | |
| | 29 | | | | | | | | |
| 30 | S-10 | SS | 4 | 7 | 8 | 21 | | | |
| 31 | | | | | | | | | |
| 32 | | Bottom of Boring | | | | | | | |
| 33 | | | | | | | | | |
| 34 | | | | | | | | | |
| 35 | | | | | | | | | |
| 36 | | | | | | | | | |
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| | | | | | | | |
|---|--|--------------------------|--|---|--|----------------------------------|------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 133.5 (NGVD29) | | | |
| Drilling Company SoilTesting, Inc. | | | | Date Started 6/3/20 | | Date Finished 6/3/20 | |
| Drilling Equipment CME Truck-Mounted Drill Rig | | | | Completion Depth 24.5 ft | | Rock Depth 24.5 ft | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 8 | Undisturbed - |
| Casing Diameter (in) N/A | | Casing Depth (ft) N/A | | Water Level (ft.) First 8 | | Completion N/A | 24 HR. N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman John Knepple | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Kenneth Idem | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) |
|-----------------|------------|--|-------------|-------------|------|-------------|-----------------------|--------------------|---|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | N-Value (Blows/ft) | |
| | 133.5 | 24" Brown fine SAND, trace silt, trace roots (moist) [TOPSOIL] | 0 | | | | | | Started Drilling at 6/3/2020 |
| | 131.5 | Brown fine SAND, trace silt (moist) | 1 | S-1 | SS | 24 | 2 | | S-1 at 0ft |
| | | Brown fine-medium SAND, trace silt, trace coarse sand (moist) | 2 | S-2 | SS | 18 | 3 | | S-2 at 2ft |
| | | Brown fine-medium SAND, trace silt (moist) | 3 | S-3 | SS | 14 | 3 | | Auger to 4ft. S-3 at 4ft |
| | | Brown fine-medium SAND, trace silt (moist) | 4 | S-4 | SS | 14 | 3 | | S-4 at 6ft |
| | | Brown fine-medium SAND, trace silt (moist) | 5 | S-5 | SS | 15 | 4 | | Auger to 8ft. S-5 at 8ft |
| | | Brown fine-medium SAND, some silt, trace coarse sand (moist) | 6 | S-6 | SS | 20 | 10 | | S-6 at 10ft |
| | | Brown gravelly fine-coarse SAND, trace silt (moist) | 7 | S-7 | SS | 4 | 17 | | Auger to 15ft |
| | | | 8 | | | | 23 | | |
| | | | 9 | | | | 20 | | |
| | | | 10 | | | | 21 | | |
| | | | 11 | | | | | | |
| | | | 12 | | | | | | |
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| | | | 20 | | | | | | |

| Project | | Project No. | | | | | | |
|---------------------------|------------|--|-------------|-------------|------|-------------|------------------------|---|
| Hudson Logistics Center | | 151010101 | | | | | | |
| Location | | Elevation and Datum | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 133.5 (NGVD29) | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) |
| | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | |
| | 113.5 | Brown fine-medium SAND, some silt, trace gravel (moist) [TILL] | 20 | | | | 26 | S-8 at 20ft |
| | | | 21 | S-8 | SS | 15 | 48 | |
| | | | 22 | | | | 49 | |
| | | | 23 | | | | 45 | |
| | | | 24 | | | | | |
| | 109.0 | Inferred Top of Bedrock | 24 | | | | | Auger refusal at 24.5ft Bottom of boring at 6/3/2020 Boring backfilled with auger cuttings. |
| | | Bottom of Boring | 25 | | | | | |
| | | | 26 | | | | | |
| | | | 27 | | | | | |
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|--|--|------------------------|-----------------|---|--|--------------------------|---------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 142.5 (NGVD29) | | | |
| Drilling Company Atlantic Testing Laboratories | | | | Date Started 6/24/20 | | Date Finished 6/24/20 | |
| Drilling Equipment Geoprobe 7822 DT | | | | Completion Depth 32 ft | | Rock Depth N/E | |
| Size and Type of Bit 3-7/8in Tricone Roller Bit | | | | Number of Samples Disturbed 10 | | Undisturbed - | Core - |
| Casing Diameter (in) 4in | | Casing Depth (ft) 8 | | Water Level (ft.) First 11.1 | | Completion N/A | 24 HR. N/A |
| Casing Hammer Automatic | | Weight (lbs) 140 | Drop (in) 30 | Drilling Foreman Scott McGregor | | | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Jack Berritt | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | Drop (in) 30 | | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) |
|-----------------|------------|--|-------------|-------------|------|-------------|----------------------|--------------------|---|
| | | | | Number | Type | Recov. (in) | Penetr. resist Bl/ft | N-Value (Blows/ft) | |
| | 142.5 | | 0 | | | | 1 | | Started Drilling on 6/24/2020 |
| | 141.5 | 12" Dark brown fine-medium SAND, trace silt, trace fine gravel, trace roots (moist)[TOPSOIL] | 1 | S-1A | SS | 8 | 1 | 2 | S-1 at 0ft |
| | | Light brown fine-medium SAND, trace silt, trace fine gravel (dry) | 2 | S-1B | SS | | 3 | | S-2 at 2ft |
| | | Light brown fine-medium SAND, trace silt (dry) | 3 | S-2 | SS | 12 | 4 | 9 | Drill to 4.0ft. Drive casing to 4.0ft. Easy drilling |
| | | Brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 4 | | | | 5 | | S-3 at 4ft |
| | | | 5 | S-3 | SS | 10 | 11 | 22 | |
| | | | 6 | | | | 11 | | S-4 at 6ft |
| | 136.5 | Brown silty fine SAND (dry) | 7 | S-4 | SS | 11 | 11 | 26 | Drill to 8.0ft. Drive casing to 8.0ft. Easy drilling |
| | | Brown silty fine SAND (dry) | 8 | | | | 15 | | S-5 at 8ft |
| | | | 9 | S-5 | SS | 9 | 9 | 22 | |
| | | | 10 | | | | 13 | | S-6 at 10ft |
| | | Brown silty fine SAND (moist) | 11 | S-6 | SS | 12 | 8 | 18 | |
| | | | 12 | | | | 9 | | Drill to 15.0ft. Easy drilling |
| | | | 13 | | | | 13 | | |
| | | | 14 | | | | | | |
| | 127.5 | Brown fine-medium SAND, some silt (wet) | 15 | | | | 5 | | S-7 at 15ft |
| | | | 16 | S-7 | SS | 10 | 11 | 23 | |
| | | | 17 | | | | 12 | | Drill to 20.0ft. Light rig chatter |
| | | | 18 | | | | 9 | | |
| | | | 19 | | | | | | |
| | | | 20 | | | | | | |

| Project | | Project No. | | | | | | | | |
|---------------------------|------------|--|---|-------------|------|-------------|------------------------|---|---|---------------------------------------|
| Hudson Logistics Center | | 151010101 | | | | | | | | |
| Location | | Elevation and Datum | | | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 142.5 (NGVD29) | | | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | | |
| | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | | N-Value (Blows/ft) | |
| | 122.5 | Brown fine-coarse SAND, some silt, trace fine gravel (wet) | 20 | | | | | | | |
| | | | 21 | S-8 | SS | 12 | 12 | 27 | S-8 at 20ft | |
| | | | 22 | | | | 15 | | Drill to 25.0ft. Light rig chatter | |
| | | | 23 | | | | 17 | | | |
| | | | 24 | | | | | | | |
| | | | Brown fine-coarse SAND, some silt, some fine gravel (wet) | 25 | | | | | | |
| | | | | 26 | S-9 | SS | 6 | 18 | 53 | S-9 at 25ft |
| | | | | 27 | | | | 20 | | Drill to 30.0ft. Moderate rig chatter |
| | | | | 28 | | | | 33 | | |
| | | | | 29 | | | | 27 | | |
| | | Brown fine-coarse SAND, trace silt, some fine gravel (wet) | 30 | | | | | | | |
| | | | 31 | S-10 | SS | 10 | 19 | 41 | S-10 at 30ft | |
| | | | 32 | | | | 18 | | Bottom of boring on 6/24/2020 Boring backfilled with soil cuttings | |
| | | | 33 | | | | 23 | | | |
| | | | 34 | | | | 26 | | | |
| | | | 35 | | | | | | | |
| | | | 36 | | | | | | | |
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| | | | 45 | | | | | | | |
| | 110.5 | Bottom of Boring | | | | | | | | |

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| | | | | | | | |
|---|--|--------------------------|--|---|--|---------------------------------|------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 143 (NGVD29) | | | |
| Drilling Company Seaboard Drilling, Inc | | | | Date Started 6/23/20 | | Date Finished 6/23/20 | |
| Drilling Equipment Diedrich D50 | | | | Completion Depth 27 ft | | Rock Depth 27 ft | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 10 | Undisturbed - |
| Casing Diameter (in) N/A | | Casing Depth (ft) N/A | | Water Level (ft.) First 26 | | Completion N/A | 24 HR. N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Jeff Nitsch | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Reid Balkind | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|---|-------------|-------------|------|-------------|-----------------------|---|---|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | | N-Value (Blows/ft) |
| | 143.0 | | 0 | | | | | | |
| | 142.5 | 6" Dark brown fine-medium SAND, trace silt, trace roots (dry) [TOPSOIL] | | S-1A | | 2 | 2 | | Started Drilling at 6/23/2020 S-1 at 0ft |
| | 141.0 | Light brown silty fine-medium SAND, trace roots (dry) | 1 | S-1B | SS | 20 | 3 | 5 | |
| | | Light brown fine-medium SAND, some silt, trace fine gravel (dry) | 2 | | | | 3 | | S-2 at 2ft |
| | | Brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 3 | S-2 | SS | 16 | 3 | 8 | Auger to 4ft S-3 at 4ft |
| | | Brown fine-medium SAND, some silt (dry) | 4 | | | | 6 | | |
| | | Light brown silty fine-medium SAND, trace fine gravel (moist) | 5 | S-3 | SS | 15 | 6 | 15 | S-4 at 6ft |
| | | Brown fine-coarse SAND, trace silt, trace fine gravel (moist) | 6 | | | | 9 | | |
| | | Brown to light gray fine-coarse SAND, some silt, trace f-c gravel (moist) | 7 | S-4 | SS | 18 | 6 | 19 | Auger to 8ft S-5 at 8ft |
| | | | 8 | | | | 10 | | |
| | | | 9 | S-5 | SS | 18 | 9 | 22 | S-6 at 10ft |
| | | | 10 | | | | 12 | | |
| | | | 11 | S-6 | SS | 14 | 9 | 22 | |
| | | | 12 | | | | 10 | | |
| | | | 13 | | | | 12 | | |
| | | | 14 | | | | 9 | | |
| | | | 15 | S-7 | SS | 18 | 8 | 25 | Auger to 15ft, Easy drilling S-7 at 15ft |
| | | | 16 | | | | 11 | | |
| | | | 17 | | | | 14 | | |
| | | | 18 | | | | 12 | | |
| | | | 19 | | | | | | |
| | | | 20 | | | | | | |

| Project | | Project No. | | | | | | |
|---------------------------|------------|--|-------------|-------------|------|-------------|------------------------|--|
| Hudson Logistics Center | | 151010101 | | | | | | |
| Location | | Elevation and Datum | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 143 (NGVD29) | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) |
| | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | |
| | 123.0 | Brown to light gray fine-coarse SAND, trace silt, trace f-c gravel (dry) | 20 | | | | 15 | Auger to 20ft, Easy drilling, Light chatter. S-8 at 20ft |
| | | | 21 | S-8 | SS | 14 | 45 | |
| | | | 22 | | | | 21 | |
| | | | 23 | | | | 24 | |
| | 119.5 | ? ? ? ? | 24 | | | | | |
| | | Grayish brown fine-coarse SAND, some silt, trace f-c gravel, trace weathered gravel (wet) [TILL] | 25 | | | | 29 | Auger to 25ft, Hard drilling, heavy chatter S-9 at 25ft. |
| | | | 26 | S-9 | SS | 19 | 21 | |
| | | | 27 | | | | 20 | |
| | | | 28 | | | | 33 | |
| | 116.0 | Dark gray coarse GRAVEL (wet) [BEDROCK] | 27 | S-10 | SS | 2 | 50/2 | Auger to 27ft. S-10 at 27ft Auger and spoon refusal encountered at 27ft. Bottom of boring at 6/23/2020 Boring backfilled with soil cuttings. |
| | 115.8 | | 28 | | | | | |
| | | Bottom of Boring | 29 | | | | | |
| | | | 30 | | | | | |
| | | | 31 | | | | | |
| | | | 32 | | | | | |
| | | | 33 | | | | | |
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|--|--|---------------------|-----------------|---|--|------------------------------------|-------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 145 (NGVD29) | | | |
| Drilling Company Atlantic Testing Laboratories | | | | Date Started 6/19/20 | | Date Finished 6/19/20 | |
| Drilling Equipment Geoprobe 7822 DT | | | | Completion Depth 33 ft | | Rock Depth 33 ft | |
| Size and Type of Bit 3-7/8in Tricone Roller Bit | | | | Number of Samples | | Disturbed 11 | Undisturbed - |
| Casing Diameter (in) 4in | | | | Casing Depth (ft) 8 | | Water Level (ft.) First 14.1 | Completion N/A |
| Casing Hammer Automatic | | Weight (lbs) 140 | Drop (in) 30 | Drilling Foreman Scott McGregor | | | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Reid Balkind | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | Drop (in) 30 | | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|---|-------------|-------------|------|-------------|-----------------------|---|---|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | | N-Value (Blows/ft) |
| | 145.0 | | 0 | S-1A | | | 2 | | Started Drilling on 6/19/2020 |
| | 144.8 | 2" Dark brown fine SAND, trace silt, trace roots (dry) [TOPSOIL] | | | | | | | S-1 at 0ft |
| | | Brown fine-medium SAND, trace silt, trace fine gravel (dry) | 1 | S-1B | SS | 10 | 4 | 7 | |
| | | Brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 2 | | | | 5 | | S-2 at 2ft |
| | | Brown fine-medium SAND, trace silt, trace fine gravel (dry) | 3 | S-2 | SS | 19 | 4 | 10 | Drive casing to 4ft and washout with water |
| | | Brown fine-medium SAND, trace silt, trace fine gravel (dry) | 4 | | | | 21 | | S-3 at 4ft |
| | | Light brown SILT, trace fine sand (dry) | 5 | S-3 | SS | 12 | 12 | 22 | |
| | | Light brown fine-medium SAND, trace silt, trace fine gravel (dry) | 6 | S-4A | | 6 | 7 | | S-4 at 6ft |
| | | Brown fine-coarse SAND, trace silt (dry) | 7 | S-4B | SS | 11 | 7 | 14 | Drive casing to 8ft and washout with water |
| | | Brown fine-coarse SAND, trace silt (dry) | 8 | | | | 6 | | S-5 at 8ft |
| | | Brown fine-coarse SAND, trace silt (dry) | 9 | S-5 | SS | 8 | 14 | 31 | |
| | | Brown fine-coarse SAND, trace silt (dry) | 10 | | | | 14 | | S-6 at 10ft |
| | | Brown fine-coarse SAND, trace silt (dry) | 11 | S-6 | SS | 5 | 10 | 22 | |
| | | Brown fine-coarse SAND, some silt (wet) | 14 | | | | 4 | | S-7 at 14ft. Drill to 14ft and washout with water |
| | | Brown fine-coarse SAND, some silt, trace fine gravel (wet) | 15 | S-7 | SS | 1 | 5 | 13 | |
| | | | 16 | | | | 8 | | |
| | | | 17 | | | | 10 | | |
| | | | 18 | | | | | | Drill to 19ft and washout with water |
| | | | 19 | S-8 | SS | 12 | 9 | | S-8 at 19ft |
| | | | 20 | | | | 12 | 28 | |

| Project | | Project No. | | | | | | | |
|---------------------------|------------|---|-------------|-------------|------|-------------|------------------------|---|---|
| Hudson Logistics Center | | 151010101 | | | | | | | |
| Location | | Elevation and Datum | | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 145 (NGVD29) | | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
| | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | | N-Value (Blows/ft) |
| | 125.0 | | 20 | S-8 | SS | 12 | 16 | 28 | Drill to 24ft. Easy drilling |
| | | | 21 | | | | 18 | | |
| | 121.0 | Brown fine-medium SAND, some fine gravel, trace silt, trace weathered gravel (wet) [TILL] | 24 | S-9 | SS | 13 | 15 | 38 | S-9 at 24ft |
| | | | 25 | | | | 16 | | Drill to 29ft. Heavy chatter |
| | | | 26 | | | | 22 | | |
| | | | 27 | | | | 17 | | S-10 at 29ft |
| | | Brown fine-medium SAND, some fine gravel, trace silt, trace weathered gravel (wet) [TILL] | 29 | S-10 | SS | 9 | 11 | | |
| | | | 30 | | | | 9 | 22 | |
| | | | 31 | | | | 13 | | Drill to 33ft. Heavy chatter and hard drilling. |
| | | | 32 | | | | 12 | | |
| | 111.9 | No Recovery Inferred Top of Bedrock | 33 | S-11 | SS | 0 | 50/1 | 50/1 | S-11 at 33ft |
| | | Bottom of Boring | 34 | | | | | | Bottom of boring at 6/19/2020. Spoon and roller bit refusal at 33.1ft. End of boring at 33.1ft. Backfilled with soil cuttings to grade. |
| | | | 35 | | | | | | |
| | | | 36 | | | | | | |
| | | | 37 | | | | | | |
| | | | 38 | | | | | | |
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|--|--|------------------------|-----------------|---|--|--------------------------|-----------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 145 (NGVD29) | | | |
| Drilling Company Atlantic Testing Laboratories | | | | Date Started 6/19/20 | | Date Finished 6/19/20 | |
| Drilling Equipment Geoprobe 7822 DT | | | | Completion Depth 32 ft | | Rock Depth 32 ft | |
| Size and Type of Bit 3-7/8in Tricone Roller Bit | | | | Number of Samples | | Disturbed 11 | Undisturbed - |
| Casing Diameter (in) 4in | | Casing Depth (ft) 8 | | Water Level (ft.) First 6.3 | | Completion N/A | Core 24 HR. N/A |
| Casing Hammer Automatic | | Weight (lbs) 140 | Drop (in) 30 | Drilling Foreman Scott McGregor | | | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Reid Balkind | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | Drop (in) 30 | | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|---|-------------|-------------|------|-------------|-----------------------|---|--|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | | N-Value (Blows/ft) |
| | 145.0 | | 0 | S-1A | | | 1 | | Started Drilling on 6/19/2020 |
| | 144.8 | 3" Dark brown fine-medium SAND, trace silt, trace roots (dry) [TOPSOIL] | | | | | 2 | | S-1 at 0ft |
| | | Light brown fine-medium SAND, trace silt, trace fine gravel (dry) | 1 | S-1B | SS | 17 | 3 | 5 | |
| | | Light brown fine-medium SAND, trace silt, trace fine gravel (dry) | 2 | | | | 2 | | S-2 at 2ft |
| | | Light brown fine-medium SAND, trace silt, trace fine gravel (dry) | 3 | S-2 | SS | 21 | 7 | 13 | Drive casing to 4ft and washout with water |
| | | Light brown fine-medium SAND, trace silt (moist) | 4 | | | | 6 | | S-3 at 4ft |
| | | Light brown fine-medium SAND, trace silt (moist) | 5 | S-3 | SS | 15 | 11 | 22 | |
| | | Light brown fine-medium SAND, trace silt, trace fine gravel (moist) | 6 | | | | 9 | | S-4 at 6ft |
| | | Light brown fine-medium SAND, trace silt, trace fine gravel (moist) | 7 | S-4 | SS | 11 | 8 | 15 | |
| | | Brown fine-coarse SAND, some coarse gravel, trace silt (wet) | 8 | | | | 12 | | S-5 at 8ft |
| | | Brown fine-coarse SAND, some coarse gravel, trace silt (wet) | 9 | S-5 | SS | 10 | 23 | 50 | Drive casing to 8ft and washout with water |
| | | Brown fine-coarse SAND, trace silt, trace fine gravel (wet) | 10 | | | | 24 | | S-6 at 10ft |
| | | Brown fine-coarse SAND, trace silt, trace fine gravel (wet) | 11 | S-6 | SS | 9 | 14 | 24 | |
| | | | 12 | | | | 10 | | |
| | | | 13 | | | | | | Open hole drilling to 14ft |
| | | Brown fine-coarse SAND, trace silt, trace fine gravel (wet) | 14 | | | | 5 | | S-7 at 14ft |
| | | | 15 | S-7 | SS | 7 | 9 | 19 | |
| | | | 16 | | | | 10 | | |
| | | | 17 | | | | 9 | | Open hole drilling to 19ft. Medium chatter |
| | | | 18 | | | | | | |
| | | Brown fine-coarse SAND, trace silt, trace fine gravel (wet) | 19 | S-8 | SS | 5 | 8 | | S-8 at 19ft |
| | | | 20 | | | | 7 | 15 | |

| Project | | Project No. | | | | | | | |
|---------------------------|------------|--|-------------|-------------|------|-------------|------------------------|---|--|
| Hudson Logistics Center | | 151010101 | | | | | | | |
| Location | | Elevation and Datum | | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 145 (NGVD29) | | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
| | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | | N-Value (Blows/ft) |
| | 125.0 | | 20 | S-8 | SS | 5 | 8 | 15 | |
| | | | 21 | | | | 7 | | |
| | | | 22 | | | | | | Drill to 22.0ft. Easy drilling |
| | | No Recovery | 24 | | | | | | S-9 at 24ft |
| | | | 25 | S-9 | SS | 0 | 3 | 11 | |
| | | | 26 | | | | 6 | | |
| | | | 27 | | | | 5 | | Open hole drilling to 29ft. Easy drilling. Light chatter |
| | | | 28 | | | | 6 | | |
| | 117.5 | ? ? ? ? | 29 | | | | | | |
| | | Brown fine to coarse SAND, some silt, trace fine gravel, trace weathered rock (wet) [TILL] | 30 | S-10 | SS | 9 | 4 | 39 | S-10 at 29ft |
| | | | 31 | | | | 11 | | |
| | | No Recovery | 32 | | | | 28 | | |
| | | Inferred Top of Bedrock | 33 | | | | 42 | | |
| | 112.9 | Bottom of Boring | 34 | S-11 | SS | 0 | 20/1 | 20/1 | S-11 at 32ft. Drill to 32.1ft. Hard drilling and heavy chatter. Spoon refusal at 32.1ft. End of boring at 32.1ft. Boring backfilled with soil to grade |
| | | | 35 | | | | | | Bottom of boring on 6/19/2020 |
| | | | 36 | | | | | | |
| | | | 37 | | | | | | |
| | | | 38 | | | | | | |
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| | | | 42 | | | | | | |
| | | | 43 | | | | | | |
| | | | 44 | | | | | | |
| | | | 45 | | | | | | |

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\\LANGAN.COM\DATA\BOS\DATA\11510101\PROJECT DATA\DISCIPLINE\GEO\TECHNICAL\GINTLOGS\151010101 ENTERPRISE BORINGS USE.GPJ...7/22/2020 9:54:19 AM ... Report: Log - LANGAN

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|---|--|---------------------|--|---|--|----------------------------------|-------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 149 (NGVD29) | | | |
| Drilling Company SoilTesting, Inc. | | | | Date Started 6/19/20 | | Date Finished 6/19/20 | |
| Drilling Equipment Truck Rig | | | | Completion Depth 42.5 ft | | Rock Depth 42.5 ft | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 12 | Undisturbed - |
| Casing Diameter (in) N/A | | | | Casing Depth (ft) N/A | | Water Level (ft.) First 30 | Completion N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Mike Kennedy | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Taylor Sisti | | | |
| Sampler Hammer Safety | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Coring (min) | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | | |
|-----------------|------------|--|--------------|-------------|-------------|------|-------------|-----------------------|---|--------------------|--|
| | | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | | N-Value (Blows/ft) | |
| | 149.0 | | | 0 | | | | | | | |
| | 148.6 | 5" Light brown fine-medium SAND, some silt, some roots (dry)[TOPSOIL] | | 0 | S-1A | SS | 5 | | | | Started Drilling at 6/19/2020 S-1 at 0ft |
| | | Light brown fine-medium SAND, trace silt, trace fine gravel, trace roots (dry) | | 1 | S-1B | SS | 10 | | | | |
| | | Light brown fine-medium SAND, trace silt (dry) | | 2 | | | | | | | S-2 at 2ft |
| | | Light brown fine-medium SAND, trace silt (dry) | | 3 | S-2 | SS | 15 | | | | |
| | | | | 4 | | | | | | | Auger to 4ft |
| | | Light brown fine-medium SAND, trace silt, trace fine gravel (dry) | | 4 | | | | | | | S-3 at 4ft |
| | | | | 5 | S-3 | SS | 2 | | | | |
| | | | | 6 | | | | | | | S-4 at 6ft |
| | | Light brown fine-medium SAND, trace silt, trace f-c gravel (dry) | | 7 | S-4 | SS | 14 | | | | |
| | | | | 8 | | | | | | | Auger to 8ft |
| | | Light brown fine-medium SAND, trace silt, trace fine gravel (dry) | | 8 | | | | | | | S-5 at 8ft |
| | | | | 9 | S-5 | SS | 16 | | | | |
| | | | | 10 | | | | | | | S-6 at 10ft |
| | | Light brown fine-medium SAND, trace silt, trace f-c gravel (dry) | | 11 | S-6 | SS | 17 | | | | |
| | | | | 12 | | | | | | | |
| | | | | 13 | | | | | | | |
| | | | | 14 | | | | | | | Auger to 5ft, moderate drilling |
| | | Light brown fine-coarse SAND, some f-c gravel, trace silt (dry) | | 15 | | | | | | | S-7 at 15ft |
| | | | | 16 | S-7 | SS | 15 | | | | |
| | | | | 17 | | | | | | | |
| | | | | 18 | | | | | | | |
| | | | | 19 | | | | | | | |
| | | | | 20 | | | | | | | Auger to 20ft, moderate drilling, some light rig chatter |

| Project | | Project No. | | | | | | | | | |
|---------------------------|------------|---|--|-------------|-------------|---------|-------------|------------------------|---|--|--|
| Hudson Logistics Center | | 151010101 | | | | | | | | | |
| Location | | Elevation and Datum | | | | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 149 (NGVD29) | | | | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Coring (min) | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | | |
| | | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | | N-Value (Blows/ft) | |
| | 129.0 | Light brown fine-coarse SAND, trace silt (dry) | | 20 | | | | 43 | | S-8 at 20ft | |
| | | | | 21 | S-8 | SS | 2 | 28 | 50 | | |
| | | | | 22 | | | | 22 | | | |
| | | | | 23 | | | | 18 | | | |
| | | | | 24 | | | | | | | Auger to 25ft, easy to moderate drilling |
| | | | Light brown fine-medium SAND, trace silt (dry) | | 25 | | | | 10 | | S-9 at 25ft |
| | | | | | 26 | S-9 | SS | 18 | 9 | 20 | |
| | | | | | 27 | | | | 11 | | |
| | | | | | 28 | | | | 11 | | |
| | | 120.0 | | | 29 | | | | | | Auger to 30ft, easy drilling |
| | | Light brown SILT, some fine sand, with fine sand lenses about 2 inch thick (wet) | | 30 | | | | 8 | | S-10 at 30ft | |
| | | | | 31 | S-10 | SS | 13 | 4 | 7 | | |
| | | | | 32 | | | | 3 | | | |
| | | | | 33 | | | | 3 | | | |
| | | | | 34 | | | | | | | Auger to 35ft, easy drilling |
| | | 114.0 | | | 35 | | | | 51 | | S-11 at 35ft |
| | | | Brown gravelly fine-medium SAND, some silt, trace weathered gravel pieces (wet) [TILL] | | 36 | S-11 | SS | 17 | 46 | 85 | |
| | | | | | 37 | | | | 39 | | |
| | | | | | 38 | | | | 43 | | |
| | | 111.4 | No Recovery | | 38 | S-12 | SS | 0 | 100/1 | 100/1 | Auger to 37.5ft, hard drilling Auger refusal at 37.5ft S-12 at 37.5ft, spoon refusal at 37.5ft Remove auger and install 3inch casing to 37.5ft, clean out hole C-1 at 37.6ft |
| | | Light gray to white PEGMATITE; fine to coarse grained; fresh to slightly weathered; very close to moderate fracture spacing; fractures near vertical to moderately dipping; strong; rock quality fair [BEDROCK] | 5:17 | 38 | | | | | | | |
| | | | 5:08 | 39 | | | | | | | |
| | | | 2:06 | 40 | C-1 | NO CORE | | | | | |
| | | | 4:27 | 41 | | | | | | | |
| | | 106.4 | | 4:03 | 42 | | | | | | |
| | | Bottom of Boring | | 43 | | | | | | Bottom of boring at 6/19/2020 Boring backfilled with auger cuttings | |
| | | | | 44 | | | | | | | |
| | | | | 45 | | | | | | | |

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| | | | | | | | |
|---|--|---------------------|--|---|--|--------------------------------|-------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 130 (NGVD29) | | | |
| Drilling Company SoilTesting, Inc. | | | | Date Started 6/22/20 | | Date Finished 6/22/20 | |
| Drilling Equipment CME Truck-Mounted Drill Rig | | | | Completion Depth 32.5 ft | | Rock Depth 32.5 ft | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed | Undisturbed |
| Casing Diameter (in) N/A | | | | Casing Depth (ft) N/A | | Water Level (ft.) First | Completion |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | 8 | N/A |
| Sampler 2-inch-diameter split spoon | | | | Drilling Foreman John Knepple | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | Field Engineer Kenneth Idem | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|--|-------------|-------------|------|-------------|-----------------------|--------------------|---|-------------------------------|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | N-Value (Blows/ft) | | |
| | 130.0 | | 0 | | | | | | | Started Drilling at 6/22/2020 |
| | 129.5 | 6" Dark brown fine SAND, trace silt, trace roots (dry) [TOPSOIL] | | S-1A | | 2 | 2 | | | S-1 at 0ft |
| | | Brown silty fine SAND, trace roots (dry) | 1 | S-1B | SS | 12 | 3 | 5 | | S-2 at 2ft |
| | | Brown silty fine SAND, trace roots (dry) | 2 | | | | 3 | | | |
| | | | 3 | S-2 | SS | 20 | 3 | 5 | 10 | Auger to 4ft, Easy Augering |
| | | | 4 | | | | 5 | | | |
| | 126.0 | Brown fine-medium SAND, some silt (moist) | 5 | S-3 | SS | 12 | 4 | 6 | 13 | S-3 at 4ft |
| | | | 6 | | | | 7 | | | |
| | | Brown fine-medium SAND, some silt (moist) | 7 | S-4 | SS | 15 | 4 | 6 | 11 | S-4 at 6ft |
| | | | 8 | | | | 5 | | | Auger to 8ft, Easy Augering |
| | | Brown fine-medium SAND, some silt (wet) | 9 | S-5 | SS | 16 | 6 | 6 | 12 | S-5 at 8ft |
| | | | 10 | | | | 6 | | | |
| | | Brown fine-medium SAND, some silt (wet) | 11 | S-6 | SS | 17 | 4 | 6 | 14 | S-6 at 10ft |
| | | | 12 | | | | 8 | | | Auger to 15ft, Easy Augering |
| | | | 13 | | | | 10 | | | |
| | | | 14 | | | | | | | |
| | | Brown medium-coarse SAND, some fine gravel, trace silt (wet) | 15 | | | | 3 | | | S-7 at 15ft |
| | | | 16 | S-7 | SS | 17 | 1 | 7 | 8 | |
| | | | 17 | | | | 7 | | | Auger to 20ft, Easy Augering |
| | | | 18 | | | | | | | |
| | | | 19 | | | | | | | |
| | | | 20 | | | | | | | |

| Project | | Project No. | | | | | | | | |
|---------------------------|------------|--|--|-------------|------|-------------|------------------------|---|--|-------------|
| Hudson Logistics Center | | 151010101 | | | | | | | | |
| Location | | Elevation and Datum | | | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 130 (NGVD29) | | | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | | |
| | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | | N-Value (Blows/ft) | |
| | +110.0 | Brown medium-coarse SAND, some fine gravel, trace silt (wet) | 20 | S-8 | SS | 16 | 8 | 10 | S-8 at 20ft | |
| | | | 21 | | | | 7 | | | |
| | | | 22 | | | | 3 | | Auger to 25ft, Easy Augering | |
| | | | 23 | | | | | | | |
| | | | 24 | | | | | | | |
| | | | Brown fine-coarse SAND, trace silt (wet) | 25 | S-9A | SS | 24 | 7 | 15 | S-9 at 25ft |
| | | | | 26 | | | | 8 | | |
| | | | | 27 | | | | 7 | | |
| | | | | 28 | | | | 5 | | |
| | | | | 29 | | | | | | |
| | | | | 30 | | | | | | |
| | +100.0 | Brown gravelly fine SAND, some silt (wet) [TILL] | 30 | S-10 | SS | 13 | 12 | 38 | S-10 at 30ft | |
| | | | 31 | | | | 15 | | | |
| | | | 32 | | | | 23 | | | |
| | | No Recovery Inferred Top of Bedrock | 32 | | | | 50/3 | | | |
| | +97.5 | | 32 | S-11 | SS | 0 | 50/0 | 50/0 | Auger to 35ft, Hard Augering, Medium Chatter S-11 at 32.5ft | |
| | | Bottom of Boring | 33 | | | | | | Auger and Spoon Refusal at 32.5ft. | |
| | | | 34 | | | | | | Bottom of boring at 6/22/2020 | |
| | | | 35 | | | | | | Boring backfilled with auger cuttings. | |
| | | | 36 | | | | | | | |
| | | | 37 | | | | | | | |
| | | | 38 | | | | | | | |
| | | | 39 | | | | | | | |
| | | | 40 | | | | | | | |
| | | | 41 | | | | | | | |
| | | | 42 | | | | | | | |
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| | | | 45 | | | | | | | |

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|--|--|---------------------|--|---|--|-----------------------------------|-------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 134 (NGVD29) | | | |
| Drilling Company SoilTesting, Inc. | | | | Date Started 6/20/20 | | Date Finished 6/20/20 | |
| Drilling Equipment Diedrich D50 | | | | Completion Depth 18 ft | | Rock Depth 18 ft | |
| Size and Type of Bit 4-7/8in Tricone Roller Bit | | | | Number of Samples | | Disturbed 8 | Undisturbed - |
| Casing Diameter (in) N/A | | | | Casing Depth (ft) N/A | | Water Level (ft.) First 10 | Completion N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Sam DeAngelis | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Taylor Sisti | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

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| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|---|-------------|-------------|------|-------------|-----------------------|---|--|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | | N-Value (Blows/ft) |
| | 134.0 | | 0 | S-1A | | | 2 | | Started Drilling on 6/20/2020 S-1 at 0ft |
| | 133.7 | 4" Light brown fine-medium SAND, some silt, some roots (moist) [TOPSOIL] | | S-1B | SS | 15 | 2 | | |
| | 133.0 | Light brown fine SAND, some silt, trace roots (moist) | 1 | | | | 2 | | S-2 at 2ft |
| | | Light brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 2 | S-1C | | | 3 | | |
| | | Light brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 3 | S-2 | SS | 14 | 10 | 20 | |
| | | | 4 | | | | 10 | | Auger to 4ft |
| | | Light brown fine-medium SAND, trace silt (moist) | 5 | S-3 | SS | 13 | 6 | 14 | S-3 at 4ft |
| | | | 6 | | | | 8 | | S-4 at 6ft |
| | | Light brown fine-medium SAND, trace silt (moist) | 7 | S-4 | SS | 16 | 11 | 29 | |
| | | | 8 | | | | 16 | | Auger to 8ft |
| | 126.0 | Brown fine-coarse SAND, some silt, some f-c gravel, trace weathered gravel fragments (moist)[TILL] | 9 | S-5 | SS | 20 | 5 | 29 | |
| | | | 10 | | | | 13 | | S-5 at 8ft |
| | | Brown fine-coarse SAND, some silt, some f-c gravel, trace weathered gravel fragments (wet)[TILL] | 11 | S-6 | SS | 11 | 10 | 32 | |
| | | | 12 | | | | 16 | | Auger to 12ft, moderate drilling, some light rig chatter |
| | | | 13 | | | | 16 | | |
| | | | 14 | | | | 10 | | |
| | | Brown silty fine-medium SAND, some f-c gravel, trace clay, trace weathered gravel fragments (wet)[TILL] | 15 | | | | 13 | | S-7 at 15ft |
| | | | 16 | S-7 | SS | 16 | 10 | 31 | |
| | | | 17 | | | | 18 | | Auger to 18ft, hard drilling, auger refusal at 18ft. S-8 at 18ft |
| | 116.0 | Brown silty fine-medium SAND, trace clay, some platy rock fragments (wet) [BEDROCK] | 18 | S-8 | SS | 2 | 13 | 100/2 | |
| | 115.8 | | 19 | | | | 18 | | Bottom of boring on 6/24/2020. Boring backfilled with auger cuttings |
| | | Bottom of Boring | 20 | | | | 33 | | |

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|---|--|--------------------------|--|---|--|----------------------------------|------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 130.5 (NGVD29) | | | |
| Drilling Company SoilTesting, Inc. | | | | Date Started 6/23/20 | | Date Finished 6/24/20 | |
| Drilling Equipment CME Truck-Mounted Drill Rig | | | | Completion Depth 39 ft | | Rock Depth 34 ft | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 10 | Undisturbed - |
| | | | | | | Core 1 | |
| Casing Diameter (in) N/A | | Casing Depth (ft) N/A | | Water Level (ft.) First 11 | | Completion N/A | 24 HR. N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman John Knepple | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Kenneth Idem | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Coring (min) | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | | |
|-----------------|------------|---|--------------|-------------|--------|------|-------------|-----------------------|---|--------------------|--|
| | | | | Depth Scale | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | | N-Value (Blows/ft) | |
| | 130.5 | | | 0 | | | | | | | |
| | 130.0 | 6" Dark brown fine SAND, some silt, trace roots (dry) [TOPSOIL] | | | S-1A | | | 2 | | | Started Drilling at 6/23/2020 S-1 at 0ft |
| | | Light brown fine SAND, some silt (dry) | | 1 | S-1B | SS | 10 | 2 | | | |
| | | Light brown fine SAND, some silt (dry) | | 2 | | | | 2 | | | S-2 at 2ft |
| | | Light brown fine SAND, some silt (dry) | | 3 | S-2 | SS | 16 | 4 | | 8 | Auger to 4ft, Easy Augering S-3 at 4ft |
| | | Light brown fine SAND, some silt (dry) | | 4 | | | | 5 | | | |
| | | Light brown fine SAND, some silt (dry) | | 5 | S-3 | SS | 24 | 9 | | 14 | S-4 at 6ft |
| | | Light brown fine SAND, some silt (dry) | | 6 | | | | 7 | | | |
| | 123.7 | Brown fine-coarse SAND, trace silt, trace fine gravel (moist) | | 7 | S-4A | SS | 18 | 4 | | 8 | Auger to 8ft, Easy Augering S-5 at 8ft |
| | | Brown fine-coarse SAND, trace silt, some fine gravel (moist) | | 8 | S-4B | | | 8 | | 16 | |
| | | Brown fine-coarse SAND, trace silt, some fine gravel (moist) | | 9 | S-5 | SS | 16 | 5 | | 7 | |
| | | Brown fine-coarse SAND, trace silt, some fine gravel (wet) | | 10 | | | | 8 | | | S-6 at 10ft |
| | | | | 11 | S-6 | SS | 13 | 3 | | 7 | Auger to 15ft, Easy Augering |
| | | | | 12 | | | | 9 | | 16 | |
| | | | | 13 | | | | 8 | | | |
| | | Brown fine-coarse SAND, some fine gravel, trace silt (wet) | | 15 | S-7 | SS | 15 | 4 | | 7 | S-7 at 15ft |
| | | | | 16 | | | | 8 | | 15 | Auger to 20ft, Easy Augering |
| | | | | 17 | | | | 12 | | | |
| | | | | 18 | | | | | | | |
| | | | | 19 | | | | | | | |
| | | | | 20 | | | | | | | |

| Project | | Project No. | | | | | | | | |
|---------------------------|------------|---|-----------------------------------|---|-------------|---------|------------------|---|---|--------------------|
| Hudson Logistics Center | | 151010101 | | | | | | | | |
| Location | | Elevation and Datum | | | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 130.5 (NGVD29) | | | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Coring (min) | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
| | | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | | N-Value (Blows/ft) |
| [Dotted Pattern] | +110.5 | Brown fine-coarse SAND, trace silt, some fine gravel (wet) | | 20 | S-8 | SS | 15 | 10 | 34 | S-8 at 20ft |
| | 21 | | | 19 | | | | Auger to 25ft, Moderate Augering, Medium Chattering | | |
| | 22 | 15 | S-9 at 25ft | | | | | | | |
| | 23 | 25 | | Auger to 30ft, Hard Augering, Heavy Chattering | | | | | | |
| | 24 | | S-10 at 30ft | | | | | | | |
| | 25 | | | Auger to 35ft, Hard Augering, Heavy Chattering | | | | | | |
| | 26 | 2 | Auger Refusal at 34ft C-1 at 34ft | | | | | | | |
| | 27 | 9 | | Bottom of boring at 6/24/2020 Boring backfilled with auger cuttings | | | | | | |
| | 28 | 50/3 | | | | | | | | |
| | 29 | | | | | | | | | |
| 30 | | | | | | | | | | |
| 31 | | | | | | | | | | |
| 32 | | | | | | | | | | |
| 33 | | | | | | | | | | |
| 34 | | | | | | | | | | |
| [Cross-hatched Pattern] | +96.5 | Gray SCHIST; fine-medium grained; slightly weathered; close fracture spacing; fractures moderately dipping; rock quality poor [BEDROCK] | | 2:20 | C-1 | NQ CORE | REC=24"/60" =40% | RQD=21"/60" =35% | 15 | |
| | 35 | | | 3:45 | | | | | | |
| | 36 | | | 4:32 | | | | | | |
| | 37 | | | 2:54 | | | | | | |
| | 38 | | | 2:22 | | | | | | |
| | 39 | | | | | | | | | |
| [Blank] | +91.5 | Bottom of Boring | | 40 | | | | | | |
| | 41 | | | | | | | | | |
| | 42 | | | | | | | | | |
| | 43 | | | | | | | | | |
| | 44 | | | | | | | | | |
| | 45 | | | | | | | | | |

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|---|--|-------------------------|---|----------------------------|--------------------------------|
| Project Hudson Logistics Center | | | Project No. 151010101 | | |
| Location 59 Steele Road, Hudson NH | | | Elevation and Datum Elev. + 139 (NGVD29) | | |
| Drilling Company SoilTesting, Inc. | | Date Started 6/23/20 | | Date Finished 6/23/20 | |
| Drilling Equipment Truck Rig | | | Completion Depth 28 ft | | Rock Depth 28 ft |
| Size and Type of Bit 4in Hollow Stem Auger | | | Number of Samples | Disturbed | Undisturbed |
| Casing Diameter (in) N/A | | | Casing Depth (ft) N/A | Water Level (ft.) First | Completion |
| Casing Hammer N/A | | Weight (lbs) N/A | Drop (in) N/A | 14 | N/A |
| Sampler 2-inch-diameter split spoon | | | Drilling Foreman Mike Kennedy | | |
| Sampler Hammer Safety | | | Weight (lbs) 140 | Drop (in) 30 | Field Engineer Taylor Sisti |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | | |
|-----------------|------------|--|-------------|-------------|------|-------------|-----------------------|---|--------------------|---|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | | N-Value (Blows/ft) | |
| | 139.0 | | 0 | | | | | | | |
| | 138.6 | 5" Brown to grayish fine-medium SAND, some silt, some roots (dry) [TOPSOIL] | | S-1A | | | 11 | | | Started Drilling at 6/23/2020 S-1 at 0ft |
| | 137.5 | Brown to grayish fine-medium SAND, some silt, trace fine gravel, trace roots (dry) | 1 | S-1B | SS | 17 | 9 | | 21 | |
| | | Brown to grayish fine-coarse SAND, trace silt, trace fine gravel (dry) | 2 | S-1C | | | 9 | | | S-2 at 2ft |
| | | Brown to grayish fine-coarse SAND, trace silt, trace fine gravel (dry) | 3 | S-2 | SS | 15 | 4 | | 7 | Auger to 4ft |
| | | Brown to grayish fine-medium SAND, trace silt (dry) | 4 | | | | 4 | | | S-3 at 4ft |
| | | | 5 | S-3 | SS | 15 | 5 | | 10 | |
| | | | 6 | | | | 5 | | | S-4 at 6ft |
| | 133.0 | Brown to grayish fine SAND, some silt (moist) | 7 | S-4 | SS | 14 | 4 | | 10 | Auger to 8ft |
| | | Brown to grayish fine SAND, some silt (moist) | 8 | | | | 5 | | | S-5 at 8ft |
| | | | 9 | S-5 | SS | 14 | 10 | | 19 | |
| | | | 10 | | | | 9 | | | S-6 at 10ft |
| | | | 11 | S-6 | SS | 13 | 11 | | 21 | |
| | | | 12 | | | | 10 | | | |
| | | | 13 | | | | | | | Auger to 14ft, easy drilling |
| | | Brown to grayish SILT, some fine sand (wet) | 14 | | | | 7 | | | S-7 at 14ft |
| | | | 15 | S-7A | SS | 18 | 9 | | 18 | |
| | | | 16 | S-7B | | | 9 | | | |
| | 123.5 | Brown to grayish fine-coarse SAND, trace silt (wet) | 16 | | | | 10 | | | |
| | | | 17 | | | | | | | |
| | | | 18 | | | | | | | Auger to 19ft, easy drilling |
| | | | 19 | S-8 | SS | 24 | 5 | | | S-8 at 19ft |
| | | Brown to grayish fine-coarse SAND, some f-c gravel, trace silt (wet) | 19 | | | | 6 | | | |
| | | | 20 | | | | | | 18 | |

| Project | | Project No. | | | | | | | |
|---------------------------|------------|--|-------------|-------------|------|-------------|------------------------|---|--|
| Hudson Logistics Center | | 151010101 | | | | | | | |
| Location | | Elevation and Datum | | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 139 (NGVD29) | | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
| | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | | N-Value (Blows/ft) |
| | 119.0 | | 20 | S-8 | SS | 24 | 12 | 18 | <p>Auger to 24ft, moderate drilling</p> <p>Auger to 24ft, hard drilling, some light rig chatter</p> <p>S-9 at 24ft</p> <p>Auger to 28ft, hard drilling</p> <p>Auger refusal at 28ft</p> <p>S-10 at 28ft, spoon bouncing</p> <p>Bottom of boring at 6/23/2020</p> <p>Boring backfilled with auger cuttings.</p> |
| | | Brown to grayish fine-coarse SAND, trace silt, trace f-c gravel (wet) | 21 | | | | 36 | | |
| | | | 22 | | | | | | |
| | | | 23 | | | | | | |
| | | | 24 | | | | 31 | | |
| | 113.5 | Brown to grayish brown silty fine-medium SAND, trace f-c gravel, trace weathered gravel pieces (wet) [TILL] | 25 | S-9A | SS | 22 | 36 | 68 | |
| | | | 26 | S-9B | | | 32 | | |
| | | Brown to grayish brown silty fine-medium SAND, trace f-c gravel, some weathered gravel pieces (wet) [TILL] Inferred Top of Bedrock | 27 | | | | 49 | | |
| | 110.8 | | 28 | S-10 | SS | 1 | 50/2 | 50/2 | |
| | | Bottom of Boring | 29 | | | | | | |
| | | | 30 | | | | | | |
| | | | 31 | | | | | | |
| | | | 32 | | | | | | |
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|---|--|---------------------|--|---|--|----------------------------------|-------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 132 (NGVD29) | | | |
| Drilling Company SoilTesting, Inc. | | | | Date Started 6/25/20 | | Date Finished 6/25/20 | |
| Drilling Equipment CME Truck-Mounted Drill Rig | | | | Completion Depth 25 ft | | Rock Depth 25 ft | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 9 | Undisturbed - |
| Casing Diameter (in) N/A | | | | Casing Depth (ft) N/A | | Water Level (ft.) First 9 | Completion N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman John Knepple | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Kenneth Idem | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | | |
|-----------------|------------|---|-------------|-------------|------|-------------|-----------------------|---|--------------------|---|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | | N-Value (Blows/ft) | |
| | 132.0 | | 0 | | | | | | | |
| | 131.5 | 6" Dark brown fine SAND, some silt, trace roots (dry) [TOPSOIL] | | S-1A | | | 2 | | | Started Drilling on 6/25/2020 S-1 at 0ft |
| | | Light brown fine SAND, some silt (dry) | 1 | S-1B | SS | 18 | 4 | 7 | | |
| | | Light brown fine SAND, some silt (dry) | 2 | S-2A | | | 4 | | | S-2 at 2ft |
| | | Light brown fine to medium SAND, trace silt (dry) | 3 | S-2B | SS | 16 | 6 | 14 | | |
| | | Light brown silty fine SAND (dry) | 4 | | | | 8 | | | Auger to 4ft, Easy Augering |
| | | Light brown fine SAND, some silt (moist) | 5 | S-3 | SS | 22 | 3 | 7 | | S-3 at 4ft |
| | | | 6 | | | | 4 | | | |
| | | | 7 | S-4A | SS | 17 | 6 | 12 | | S-4 at 6ft |
| | | Brown fine-coarse SAND, trace silt (moist) | 8 | S-4B | | | 6 | | | |
| | | Brown fine-coarse SAND, trace silt, trace fine gravel (moist) | 9 | S-5 | SS | 9 | 5 | 16 | | Auger to 8ft, Easy Augering |
| | | | 10 | | | | 8 | | | |
| | | Brown fine-coarse SAND, trace silt, trace fine gravel (moist) | 11 | S-6 | SS | 15 | 9 | 15 | | S-5 at 8ft |
| | | | 12 | | | | 10 | | | |
| | | | 13 | | | | 9 | | | S-6 at 10ft |
| | | | 14 | | | | 9 | | | |
| | | Brown fine-coarse SAND, trace silt, trace fine gravel (moist) | 15 | S-7 | SS | 10 | 1 | 9 | | Auger to 15ft, Easy Augering |
| | | | 16 | | | | 4 | | | |
| | | | 17 | | | | 5 | | | S-7 at 15ft |
| | | | 18 | | | | 14 | | | |
| | | | 19 | | | | | | | Auger to 20ft, Easy Augering |
| | | | 20 | | | | | | | |

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| Project | | Project No. | | | | | | | |
|---------------------------|------------|---|-------------|-------------|------|-------------|------------------------|---|--|
| Hudson Logistics Center | | 151010101 | | | | | | | |
| Location | | Elevation and Datum | | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 132 (NGVD29) | | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
| | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | | N-Value (Blows/ft) |
| | 112.0 | Brown fine-coarse SAND, some fine gravel, trace silt (moist) | 20 | | | | 3 | | S-8 at 20ft |
| | | | 21 | S-8 | SS | 16 | | 3 18 23 | 21 |
| | | | 22 | | | | | | Auger to 25ft, Moderate Augering, Medium Chattering |
| | | | 23 | | | | | | |
| | | S-9: Brown silty fine-coarse SAND, some fine gravel (wet)[TILL] | 24 | | | | | | |
| | 107.5 | Inferred Top of Bedrock | 24.5 | S-9 | SS | 4 | 50/3 | 50/3 | Auger Refusal at 24.5ft. S-9 at 24.5ft Bottom of boring on 6/25/2020 Boring backfilled with auger cuttings |
| | 107.3 | | 25 | | | | | | |
| | | Bottom of Boring | 26 | | | | | | |
| | | | 27 | | | | | | |
| | | | 28 | | | | | | |
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|---|--|--------------------------|------------------|---|--|----------------------------|------------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 140.5 (NGVD29) | | | |
| Drilling Company SoilTesting, Inc. | | | | Date Started 6/22/20 | | Date Finished 6/22/20 | |
| Drilling Equipment Truck Rig | | | | Completion Depth 21 ft | | Rock Depth 21 ft | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 8 | Undisturbed - |
| Casing Diameter (in) N/A | | Casing Depth (ft) N/A | | Water Level (ft.) First ∇ 19 | | Completion ∇ N/A | 24 HR. ∇ N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | Drop (in) N/A | Drilling Foreman Mike Kennedy | | | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Taylor Sisti | | | |
| Sampler Hammer Safety | | Weight (lbs) 140 | Drop (in) 30 | | | | |

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| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | | |
|-----------------|------------|---|-------------|-------------|------|-------------|-----------------------|---|--------------------|--|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | | N-Value (Blows/ft) | |
| | 140.5 | | 0 | | | | | | | |
| | 140.0 | 5" Dark brown fine-medium SAND, some silt, some roots (dry) [TOPSOIL] | | S-1A | | 4 | | | | Started Drilling at 6/22/2020 S-1 at 0ft |
| | 139.0 | Orangish brown fine-medium SAND, some silt, trace roots (dry) | 1 | S-1B | SS | 17 | 6 | 11 | | |
| | | Brown fine-medium SAND, trace silt (dry) | 2 | S-1C | | 8 | 5 | | | S-2 at 2ft |
| | | Brown fine-coarse SAND, trace silt, trace fine gravel (moist) | 3 | S-2 | SS | 12 | 5 | 11 | | Auger to 4ft |
| | | Brown fine-coarse SAND, trace silt, trace fine gravel (moist) | 4 | | | 4 | 6 | | | S-3 at 4ft |
| | 135.0 | Brown to brown fine SAND, some silt (moist) | 5 | S-3A | SS | 14 | 7 | 13 | | |
| | | Brown fine SAND, some silt (moist) | 6 | S-3B | | 6 | 6 | | | S-4 at 6ft |
| | 133.0 | Brown fine-coarse SAND, trace silt (moist) | 7 | S-4A | SS | 17 | 6 | 13 | | Auger to 8ft |
| | | Brown fine-coarse SAND, trace silt, trace fine gravel (moist) | 8 | S-4B | | 9 | 9 | | | S-5 at 8ft |
| | | Brown fine SAND, trace silt, trace fine gravel (moist) | 9 | S-5A | | 6 | 8 | 17 | | |
| | | Brown fine SAND, trace silt (moist) | 10 | S-5B | SS | 24 | 9 | | | S-6 at 10ft |
| | | Brown fine-coarse SAND, some f-c gravel, trace silt (moist) | 11 | S-6A | SS | 14 | 11 | 27 | | |
| | | | 12 | S-6B | | 18 | 12 | | | |
| | | | 13 | | | | | | | Auger to 15ft, easy drilling |
| | 126.5 | ? | 14 | | | | | | | |
| | | Brown silty fine-medium SAND, some f-c gravel, trace weathered gravel pieces (moist) [TILL] | 15 | | | | 27 | | | S-7 at 15ft |
| | | | 16 | S-7 | SS | 17 | 31 | 57 | | |
| | | | 17 | | | | 26 | | | |
| | | | 18 | | | | 25 | | | |
| | | | 19 | | | | | | | Auger to 18ft, moderate drilling, plug wet at 19ft |
| | | | 20 | | | | | | | |

| Project | | Project No. | | | | | | | |
|---------------------------|------------|---|-------------|-------------|------|-------------|-----------------------|---|--|
| Hudson Logistics Center | | 151010101 | | | | | | | |
| Location | | Elevation and Datum | | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 140.5 (NGVD29) | | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
| | | | | S-8 Number | Type | Recov. (in) | Penetr. resist BU/6in | | N-Value (Blows/ft) |
| | 120.5 | | 20 | | | | | | |
| | 119.5 | Brown to brown silty fine-medium SAND, trace f-c gravel, some weathered gravel pieces (wet) [TILL] Inferred Top of Bedrock | 21 | S-8 | SS | 10 | 62 | | S-8 at 20ft |
| | | Bottom of Boring | 22 | | | | | 100/5 | Auger to 21ft, auger and split spoon refusal Bottom of boring at 6/22/2020 Boring backfilled with auger cuttings |
| | | | 23 | | | | | | |
| | | | 24 | | | | | | |
| | | | 25 | | | | | | |
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|--|--|-------------------------|--|---|--|-------------------------------|--|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 134 (NGVD29) | | | |
| Drilling Company Atlantic Testing Laboratories | | | | Date Started 7/1/20 | | Date Finished 7/2/20 | |
| Drilling Equipment Geoprobe 7822 DT | | | | Completion Depth 29 ft | | Rock Depth 29 ft | |
| Size and Type of Bit 3-7/8in Tricone Roller Bit | | | | Number of Samples Disturbed 10 | | Undisturbed - Core - | |
| Casing Diameter (in) 4in | | Casing Depth (ft) 29 | | Water Level (ft.) First 14 | | Completion 12.6 24 HR. N/A | |
| Casing Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | Drilling Foreman Ben Cray | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Olivia Chasse | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

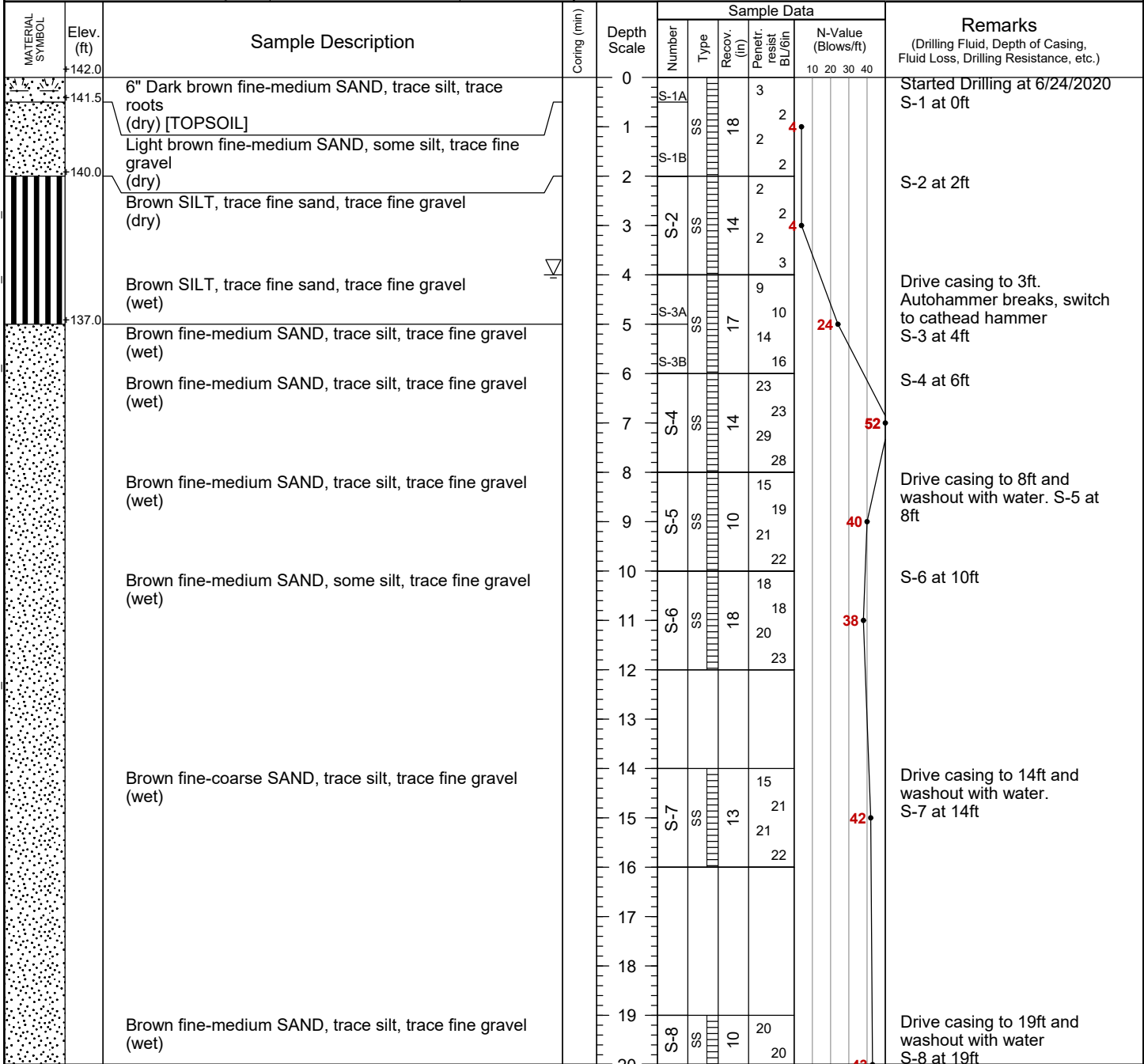
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|--|-------------|-------------|------|-------------|-----------------------|---|---|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | | N-Value (Blows/ft) |
| | 134.0 | | 0 | S-1A | | | 2 | | Started Drilling at 7/1/2020 S-1 at 0ft |
| | 133.7 | 4" Brown fine-medium SAND, trace silt, trace roots (dry) [TOPSOIL] | 1 | S-1B | SS | 14 | 2 | | |
| | | Light brown fine SAND, some silt (dry) | 2 | | | | 3 | | S-2 at 2ft |
| | | Light brown fine SAND, some silt (dry) | 3 | S-2 | SS | 16 | 1 | | |
| | | | 4 | | | | 3 | | |
| | | Light brown fine SAND, some silt (dry) | 5 | S-3 | SS | 12 | 5 | | Drive casing to 4.0ft Drill to 4.0ft, easy drilling S-3 at 4ft |
| | | | 6 | | | | 5 | | |
| | | Light brown fine SAND, some silt (dry) | 7 | S-4 | SS | 8 | 7 | | S-4 at 6ft |
| | | | 8 | | | | 7 | | |
| | | Light brown fine-medium SAND, trace silt (dry) | 9 | S-5 | SS | 9 | 5 | | Drive casing to 8.0ft Drill to 8.0ft, easy drilling. S-5 at 8ft |
| | | | 10 | | | | 8 | | |
| | | Light brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 11 | S-6 | SS | 17 | 10 | | S-6 at 10ft |
| | | | 12 | | | | 11 | | |
| | | | 13 | | | | 9 | | |
| | | Light brown fine-coarse SAND, trace silt, trace fine gravel (wet) | 14 | S-7 | SS | 3 | 24 | | Drive casing to 14.0ft Drill to 14.0ft, easy drilling S-7 at 14ft |
| | | | 15 | | | | 11 | | |
| | | | 16 | | | | 9 | | |
| | | | 17 | | | | 10 | | |
| | | | 18 | | | | | | |
| | | | 19 | S-8 | SS | 2 | 18 | | Drive casing to 19.0ft Drill to 19.0ft, easy to moderate drilling |
| | | Light brown fine-coarse SAND, trace silt, trace fine gravel (wet) | 20 | | | | 10 | | |

| Project | | Project No. | | | | | | | |
|---------------------------|------------|--|-------------|-------------|------|-------------|------------------------|---|---|
| Hudson Logistics Center | | 151010101 | | | | | | | |
| Location | | Elevation and Datum | | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 134 (NGVD29) | | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
| | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | | N-Value (Blows/ft) |
| | +114.0 | | 20 | S-8 | SS | 2 | 8 | 18 | S-8 at 19ft |
| | | | 21 | | | | 7 | | |
| | | Light brown fine-coarse SAND, trace silt, trace fine gravel (wet) | 24 | | | | 9 | | |
| | | | 25 | S-9 | SS | 3 | 12 | 20 | Drive casing to 24.0ft Drill to 24.0ft, easy to moderate drilling S-9 at 24ft |
| | | | 26 | | | | 8 | | |
| | | | 27 | | | | | | |
| | 107.0 | Grayish brown fine-medium SAND, some fine gravel, trace silt (wet) [TILL] Inferred Top of Bedrock | 28 | | | | | | |
| | 104.9 | | 29 | S-10 | SS | 2 | 50/2 | 50/2 | Drive casing to 29.0ft Drill to 29.0ft, hard drilling S-10 at 29ft Split spoon and roller bit refusal at 29ft. Bottom of boring at 7/2/2020 Boring backfilled with soil cuttings |
| | | Bottom of Boring | 30 | | | | | | |
| | | | 31 | | | | | | |
| | | | 32 | | | | | | |
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|--|--|---------------------|---|---------------------------------|--------------------------|
| Project Hudson Logistics Center | | | Project No. 151010101 | | |
| Location 59 Steele Road, Hudson NH | | | Elevation and Datum Elev. + 142 (NGVD29) | | |
| Drilling Company Seaboard Drilling, Inc | | | Date Started 6/24/20 | | Date Finished 6/25/20 |
| Drilling Equipment Diedrich D50 | | | Completion Depth 42 ft | | Rock Depth 37 ft |
| Size and Type of Bit 3-7/8in Tricone Roller Bit | | | Number of Samples | Disturbed 11 | Undisturbed - |
| Casing Diameter (in) 4in | | | Casing Depth (ft) 37 | Water Level (ft.) First 4 | Completion N/A |
| Casing Hammer Automatic | | Weight (lbs) 140 | Drop (in) 30 | Drilling Foreman Jeff Nitsch | |
| Sampler 2-inch-diameter split spoon | | | Field Engineer Reid Balkind | | |
| Sampler Hammer Automatic/Safety | | Weight (lbs) 140 | Drop (in) 30 | | |



| Project | | Project No. | | | | | | | | | |
|---------------------------|------------|---|--------------|-------------|-------------|---------|------------------|------------------------|---|---|----|
| Hudson Logistics Center | | 151010101 | | | | | | | | | |
| Location | | Elevation and Datum | | | | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 142 (NGVD29) | | | | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Coring (min) | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | | |
| | | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | | N-Value (Blows/ft) | |
| | 122.0 | Brown fine-coarse SAND, trace silt, trace fine gravel (wet) | | 20 | S-8 | SS | 10 | 23 | 43 | Drive casing to 24ft and washout with water S-9 at 24ft | |
| | | | | 21 | | | | 32 | | | |
| | | | | 22 | | | | | | | |
| | | | | 23 | | | | | | | |
| | | | | 24 | | | | | | | |
| | | | | 25 | S-9 | SS | 6 | 20 | 27 | | 49 |
| | | | | 26 | | | | | 22 | | |
| | | | | 27 | | | | | 20 | | |
| | | | | 28 | | | | | | | |
| | | | | 29 | | | | | | | |
| | | | | 30 | S-10 | SS | 11 | 23 | 30 | | 63 |
| | | | | 31 | | | | | 33 | | |
| | | | | 32 | | | | | 23 | | |
| | 113.0 | Brown fine-medium SAND, some silt, trace f-c gravel, trace weathered gravel (moist) [TILL] | | 33 | S-11 | SS | 5 | 35 | 50/3 | Drive casing to 33ft and washout with water. S-11 at 33ft | |
| | | | | 34 | | | | | | | |
| | | | | 35 | | | | | | | |
| | | | | 36 | | | | | | | |
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| | | | | 43 | | | | | | | |
| | | | | 44 | | | | | | | |
| | | | | 45 | | | | | | | |
| | 105.0 | Light gray to dark gray SCHIST; fine to medium grained; fresh to slightly weathered; very close to close fracture spacing; fractures shallow dipping to near horizontal; strong; rock quality poor; [BEDROCK] | | 5:15 | C-1 | NQ CORE | REC=54"/60" =90% | RQD=26"/60" =43% | | Drive casing to 37ft and washout with water. Drill refusal encountered at 37ft. C-1 at 37ft | |
| | | | | 4:23 | | | | | | | |
| | 100.0 | Bottom of Boring | | 2:46 | | | | | | Bottom of boring at 6/25/2020 Boring backfilled with soil cuttings. | |
| | | | | 2:59 | | | | | | | |
| | | | | 2:45 | | | | | | | |

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| | | | | | | | |
|--|--|------------------------|-----------------|---|--|--------------------------|---------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 133 (NGVD29) | | | |
| Drilling Company Atlantic Testing Laboratories | | | | Date Started 6/24/20 | | Date Finished 6/24/20 | |
| Drilling Equipment Geoprobe 7822 DT | | | | Completion Depth 32 ft | | Rock Depth N/E | |
| Size and Type of Bit 3-7/8in Tricone Roller Bit | | | | Number of Samples Disturbed 10 | | Undisturbed - | Core - |
| Casing Diameter (in) 4 | | Casing Depth (ft) 4 | | Water Level (ft.) First 11.5 | | Completion N/A | 24 HR. N/A |
| Casing Hammer Automatic | | Weight (lbs) 140 | Drop (in) 30 | Drilling Foreman Scott McGregor | | | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Jack Berritt | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | Drop (in) 30 | | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | | |
|-----------------|------------|---|-------------|-------------|------|-------------|-----------------------|---|--------------------|--|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | | N-Value (Blows/ft) | |
| | 133.0 | | 0 | | | | | | | Started Drilling on 6/24/2020 |
| | 132.8 | 3" Brown fine-medium SAND, trace silt, trace fine gravel, trace roots (moist) [TOPSOIL] | 0 | S-1A | SS | 20 | 1 | 2 | | S-1 at 0ft |
| | | Grayish brown fine SAND, some silt, trace roots (dry) | 1 | S-1B | SS | 20 | 1 | 2 | | S-2 at 2ft |
| | | Grayish brown fine SAND, some silt (dry) | 2 | | | | 2 | | | |
| | | | 3 | S-2 | SS | 20 | 3 | 8 | | Drill to 4.0ft. Drive casing to 4.0ft. Easy drilling |
| | | | 4 | | | | 5 | | | S-3 at 4ft |
| | | Grayish brown fine SAND, some silt (dry) | 5 | S-3 | SS | 10 | 6 | 13 | | S-4 at 6ft |
| | | | 6 | | | | 7 | | | |
| | | Grayish brown fine SAND, some silt (dry) | 7 | S-4 | SS | 12 | 9 | 14 | | Drill to 8.0ft. Easy drilling |
| | | | 8 | | | | 15 | | | S-5 at 8ft |
| | | Grayish brown fine-coarse SAND, trace silt, trace fine gravel (moist) | 9 | S-5 | SS | 12 | 7 | 15 | | |
| | | | 10 | | | | 8 | | | S-6 at 10ft |
| | | Grayish brown fine-medium SAND, trace silt, trace fine gravel (moist) | 11 | S-6 | SS | 9 | 11 | 25 | | |
| | | | 12 | | | | 12 | | | Drill to 15.0ft. Easy drilling |
| | | | 13 | | | | 13 | | | |
| | | | 14 | | | | 14 | | | |
| | | Grayish brown fine-coarse SAND, trace silt, trace fine gravel (wet) | 15 | | | | 7 | | | S-7 at 15ft |
| | | | 16 | S-7 | SS | 10 | 8 | 17 | | |
| | | | 17 | | | | 9 | | | Drill to 20.0ft. Easy drilling |
| | | | 18 | | | | 10 | | | |
| | | | 19 | | | | | | | |
| | | | 20 | | | | | | | |

| Project | | Project No. | | | | | | | |
|---------------------------|------------|--|-------------|-------------|------|-------------|------------------------|---|---|
| Hudson Logistics Center | | 151010101 | | | | | | | |
| Location | | Elevation and Datum | | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 133 (NGVD29) | | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
| | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | | N-Value (Blows/ft) |
| | 113.0 | Grayish brown fine-coarse SAND, some silt, trace fine gravel (wet) | 20 | S-8 | SS | 10 | 8 | 16 | S-8 at 20ft |
| | | | 21 | | | | 9 | | |
| | | | 22 | | | | 7 | | |
| | | 23 | | | | | | | Drill to 25.0ft. Light rig chatter |
| | | 24 | | | | | | | |
| | 108.0 | Grayish brown fine-coarse SAND, some silt, some fine gravel (wet) [TILL] | 25 | S-9 | SS | 8 | 20 | 40 | S-9 at 25ft |
| | | | 26 | | | | 18 | | |
| | | | 27 | | | | 22 | | |
| | | | 28 | | | | 19 | | |
| | | 29 | | | | | | | Drill to 30.0ft. Moderate rig chatter |
| | 30 | | | | | | | | |
| | 31 | Grayish brown fine-coarse SAND, some silt, some fine gravel (wet) [TILL] | 30 | S-10 | SS | 6 | 10 | 28 | S-10 at 30ft |
| | 31 | | 10 | | | | | | |
| | 32 | 18 | | | | | | | |
| | 33 | 14 | | | | | | | |
| | 101.0 | Bottom of Boring | 32 | | | | | | Bottom of boring on 6/24/2020 Boring backfilled with soil cuttings |
| | | | 33 | | | | | | |
| | | | 34 | | | | | | |
| | | | 35 | | | | | | |
| | | | 36 | | | | | | |
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|--|---------------------|------------------------|---|--|------------------------------|
| Project Hudson Logistics Center | | | Project No. 151010101 | | |
| Location 59 Steele Road, Hudson NH | | | Elevation and Datum Elev. + 142 (NGVD29) | | |
| Drilling Company Atlantic Testing Laboratories | | | Date Started 6/19/20 | | Date Finished 6/20/20 |
| Drilling Equipment Geoprobe 7822 DT | | | Completion Depth 23 ft | | Rock Depth N/E |
| Size and Type of Bit 3-7/8in Tricone Roller Bit | | | Number of Samples Disturbed 8 | | Undisturbed - Core - |
| Casing Diameter (in) 4 | | Casing Depth (ft) 8 | Water Level (ft.) First 4 | | Completion 24 HR. N/A N/A |
| Casing Hammer Automatic | Weight (lbs) 140 | Drop (in) 30 | Drilling Foreman Scott | | |
| Sampler 2-inch-diameter split spoon | | | Field Engineer Reid Balkind | | |
| Casing Hammer Automatic | Weight (lbs) 140 | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|---|-------------|-------------|------|-------------|-----------------------|---|--|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | | N-Value (Blows/ft) |
| | 142.0 | | 0 | S-1A | | 1 | | | Started Drilling on 6/19/2020 |
| | 141.8 | 3" Dark brown fine-medium SAND, trace silt, trace roots (dry) [TOPSOIL] | | | | | | | S-1 at 0ft |
| | | Light brown fine-medium SAND, some silt, trace fine gravel (dry) | 1 | S-1B | SS | 12 | | 7 | S-2 at 2ft |
| | | Light brown fine-medium SAND, some silt, trace fine gravel (dry) | 2 | | | 4 | | | S-2 at 2ft |
| | | Light brown fine-medium SAND, some silt, trace fine gravel (dry) | 3 | S-2 | SS | 19 | | 15 | Drive casing to 4ft |
| | | Brown fine-coarse SAND, trace silt, trace fine gravel (wet) | 4 | | | 12 | | | S-3 at 4ft |
| | | Brown fine-coarse SAND, trace silt, trace fine gravel (wet) | 5 | S-3 | SS | 15 | | 25 | S-3 at 4ft |
| | | Brown fine-coarse SAND, trace silt, trace fine gravel (wet) | 6 | | | 14 | | | S-4 at 6ft |
| | | Brown fine-coarse SAND, trace silt, trace fine gravel (wet) | 7 | S-4 | SS | 12 | | 23 | Drive casing to 8ft and washout with water |
| | | Brown fine-coarse SAND, trace silt, trace f-c gravel (wet) | 8 | | | 11 | | | S-5 at 8ft |
| | | Brown fine-coarse SAND, trace silt, trace f-c gravel (wet) | 9 | S-5 | SS | 10 | | 39 | S-5 at 8ft |
| | | Brown fine-coarse SAND, trace silt, some fine gravel, trace weathered gravel (wet) [TILL] | 10 | | | 12 | | | S-6 at 10ft |
| | | Brown fine-coarse SAND, trace silt, some fine gravel, trace weathered gravel (wet) [TILL] | 11 | S-6 | SS | 10 | | 40 | S-6 at 10ft |
| | | Brown fine-coarse SAND, trace silt, some fine gravel, trace weathered gravel (wet) [TILL] | 12 | | | 19 | | | Drill to 14ft. Heavy chatter at 13ft |
| | | Brown fine-coarse SAND, trace silt, some fine gravel, trace weathered gravel (wet) [TILL] | 13 | | | 16 | | | |
| | | Brown fine-coarse SAND, trace silt, some fine gravel, trace weathered gravel (wet) [TILL] | 14 | | | 20 | | | S-7 at 14ft |
| | | Brown fine-coarse SAND, trace silt, some fine gravel, trace weathered gravel (wet) [TILL] | 15 | S-7 | SS | 14 | | 88 | S-7 at 14ft |
| | | Brown fine to coarse SAND, trace silt, trace fine gravel, trace weathered gravel (wet) [TILL] | 16 | | | 40 | | | |
| | | Brown fine to coarse SAND, trace silt, trace fine gravel, trace weathered gravel (wet) [TILL] | 17 | | | 48 | | | |
| | | Brown fine to coarse SAND, trace silt, trace fine gravel, trace weathered gravel (wet) [TILL] | 18 | | | 48 | | | |
| | | Brown fine to coarse SAND, trace silt, trace fine gravel, trace weathered gravel (wet) [TILL] | 19 | S-8 | SS | 10 | | 37 | S-8 at 19ft |
| | | Brown fine to coarse SAND, trace silt, trace fine gravel, trace weathered gravel (wet) [TILL] | 20 | | | 10 | | 92 | |

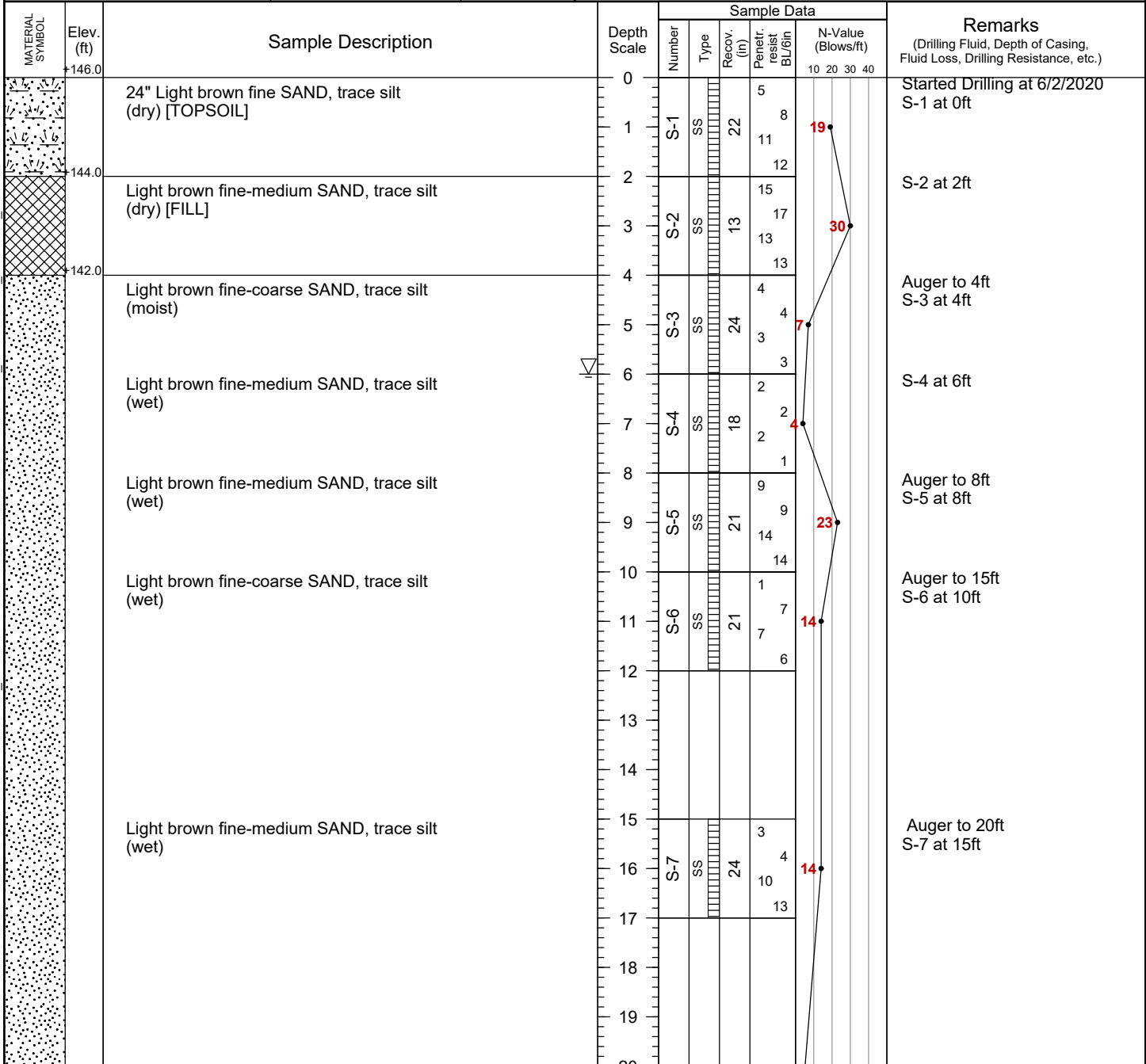
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| Project | | Project No. | | | | | | | | |
|---|------------|----------------------|-------------|-------------|------|-------------|-----------------------|---|--------------------|--|
| Hudson Logistics Center | | 151010101 | | | | | | | | |
| Location | | Elevation and Datum | | | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 142 (NGVD29) | | | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | | |
| | | | | Number | Type | Recov. (in) | Penetr. resist BU/6in | | N-Value (Blows/ft) | |
|  | 122.0 | | 20 | | | | 50/2 | 10 20 30 40 | 50/2 | Drill to 23ft, Hard drilling and hard chatter Rig broke, unable to continue. Bottom of boring on 6/20/2020. Boring backfilled with soil cuttings. |
| | 119.0 | Bottom of Boring | 21 | | | | | | | |
| | | | 22 | | | | | | | |
| | | | 23 | | | | | | | |
| | | | 24 | | | | | | | |
| | | | 25 | | | | | | | |
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|---|--|--------------------------|--|---|--|----------------------------------|------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 146 (NGVD29) | | | |
| Drilling Company SoilTesting, Inc. | | | | Date Started 6/2/20 | | Date Finished 6/2/20 | |
| Drilling Equipment CME Truck-Mounted Drill Rig | | | | Completion Depth 27 ft | | Rock Depth N/E | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples Disturbed 25 | | Undisturbed - | Core - |
| Casing Diameter (in) N/A | | Casing Depth (ft) N/A | | Water Level (ft.) First 6 | | Completion N/A | 24 HR. N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman John Knepple | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Kenneth Idem | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |



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|---------------------------------------|---|
| Project Hudson Logistics Center | Project No. 151010101 |
| Location 59 Steele Road, Hudson NH | Elevation and Datum Elev. + 146 (NGVD29) |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) |
|--------------------------|------------|---|-------------|-------------|------|-------------|------------------------|---|
| | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | |
| [Symbol: Dotted pattern] | 126.0 | Light brown fine-medium SAND, trace silt (wet) | 20 | S-8 | SS | 20 | 3 | S-8 at 20ft |
| | 119.0 | Light brown fine-medium SAND, trace silt, trace coarse sand (wet) | 21 | S-9 | SS | 21 | 7 | |
| | | Bottom of Boring | 25 | | | | 4 | Auger to 25ft S-9 at 25ft |
| | | | 26 | | | | 6 | |
| | | | 27 | | | | 8 | Bottom of boring at 6/2/2020 Boring backfilled with auger cuttings |
| | | | 28 | | | | | |
| | | | 29 | | | | | |
| | | | 30 | | | | | |
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|---|--|--------------------------|-----------------|---|--|-------------------------|------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 139 (NGVD29) | | | |
| Drilling Company SoilTesting, Inc. | | | | Date Started 6/1/20 | | Date Finished 6/1/20 | |
| Drilling Equipment CME Truck-Mounted Drill Rig | | | | Completion Depth 27 ft | | Rock Depth N/E | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 9 | Undisturbed - |
| Casing Diameter (in) N/A | | Casing Depth (ft) N/A | | Water Level (ft.) First 8 | | Completion N/A | 24 HR. N/A |
| Casing Hammer N/A | | Weight (lbs) 140 | Drop (in) 30 | Drilling Foreman John Knepple | | | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Olivia Chasse | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | Drop (in) 30 | | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) |
|--|------------|---|--|-------------|------|-------------|-----------------------|---|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | |
| [Symbol] | 139.0 | 24" Dark brown fine-medium SAND, some fine gravel, trace silt, some roots (dry) [TOPSOIL] | 0 | | | | 5 | Started Drilling at 6/1/2020 S-1 at 0ft |
| | [Symbol] | 137.0 | Orangish brown fine-medium SAND, some fine gravel, trace silt (dry) [FILL] | 1 | S-1 | SS | 19 | |
| Orangish brown fine-medium SAND, some fine gravel, trace silt (dry) [FILL] | | | 2 | S-2 | SS | 16 | 14 | |
| Orangish brown fine-medium SAND, some fine gravel, trace silt (dry) [FILL] | | | 3 | S-3 | SS | 22 | 12 | |
| Grayish brown fine-medium SAND, some fine gravel, trace silt, trace roots (dry) [FILL] | | | 4 | S-4 | SS | 22 | 10 | |
| Grayish brown fine-medium SAND, trace silt (wet) | | | 5 | S-5 | SS | 8 | 2 | |
| Orangish brown fine SAND, trace silt (wet) | | | 6 | S-6 | SS | 15 | 10 | |
| Grayish brown fine-coarse SAND, trace fine gravel, trace silt (wet) | | | 7 | S-7 | SS | 18 | 6 | |
| | 131.0 | | 8 | | | | 10 | |
| | | | 9 | | | | 8 | |
| | | | 10 | | | | 9 | |
| | | | 11 | | | | 10 | |
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| Project | | Project No. | | | | | | | |
|---------------------------|------------|---|-------------|-------------|------|-------------|------------------------|---|---|
| Hudson Logistics Center | | 151010101 | | | | | | | |
| Location | | Elevation and Datum | | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 139 (NGVD29) | | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
| | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | | N-Value (Blows/ft) |
| | 119.0 | Grayish brown fine-coarse SAND, trace fine gravel, trace silt (wet) | 20 | | | | | | |
| | | | 21 | S-8 | SS | 17 | 5 | 64 | Drill to 20.0ft Smooth drilling S-8 at 20ft |
| | | Orangish brown fine SAND, some silt (wet) | 22 | | | | | | |
| | | | 23 | | | | | | |
| | | | 24 | | | | | | |
| | | | 25 | | | | | | |
| | | | 26 | S-9 | SS | 13 | 2 | 9 | Drill to 25.0ft Smooth to moderate drilling S-9 at 25ft |
| | 112.0 | | 27 | | | | | | |
| | | Bottom of Boring | 28 | | | | | | |
| | | | 29 | | | | | | |
| | | | 30 | | | | | | |
| | | | 31 | | | | | | |
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| | | | 39 | | | | | | |
| | | | 40 | | | | | | |
| | | | 41 | | | | | | |
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| | | | | | | | |
|---|--|---------------------|--|---|--|---------------------------------|-------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 134 (NGVD29) | | | |
| Drilling Company SoilTesting, Inc. | | | | Date Started 6/1/20 | | Date Finished 6/1/20 | |
| Drilling Equipment CME Truck-Mounted Drill Rig | | | | Completion Depth 34.5 ft | | Rock Depth 29.5 ft | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 9 | Undisturbed - |
| Casing Diameter (in) N/A | | | | Casing Depth (ft) N/A | | Water Level (ft.) First 6 | Completion N/A |
| Casing Hammer N/A | | Weight (lbs) 140 | | Drop (in) 30 | | 24 HR. N/A | |
| Casing Hammer N/A | | | | Drilling Foreman John Knepple | | | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Olivia Chasse | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Coring (min) | Sample Data | | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) |
|-----------------|------------|---|--------------|-------------|--------|------|-------------|-----------------------|--------------------|---|
| | | | | Depth Scale | Number | Type | Recov. (in) | Penetr. resist. Bl/In | N-Value (Blows/ft) | |
| | 134.0 | 12" Dark brown fine-medium SAND, some fine gravel, trace silt, some roots, trace debris (dry) [TOPSOIL] | 0 | | | | | 2 | | Started Drilling at 6/1/2020 S-1 at 0ft |
| | 133.0 | Grayish brown fine-medium SAND, some fine gravel, trace silt (dry) [FILL] | 1 | S-1A | SS | 19 | 7 | 6 | 13 | S-2 at 2ft |
| | 131.0 | Grayish brown fine-medium SAND, some fine gravel, trace silt (dry) [FILL] | 2 | S-1B | SS | | 11 | 8 | | |
| | | Grayish brown fine-medium SAND, some fine gravel, trace silt (dry) [FILL] | 3 | S-2A | SS | 20 | 10 | 9 | 19 | Auger to 4ft, smooth drilling S-3 at 4ft. |
| | | Grayish brown fine SAND, some fine gravel, trace silt (dry) | 4 | S-2B | SS | | 13 | 7 | | |
| | | Grayish brown fine SAND, trace silt (moist) | 5 | S-3 | SS | 20 | 9 | 7 | 16 | S-4 at 6ft. Wet in tip |
| | | Grayish brown fine SAND, some silt (wet) | 6 | | | | 8 | 6 | | |
| | | | 7 | S-4 | SS | 20 | 7 | 7 | 15 | Auger to 8.0ft, smooth drilling S-5 at 8ft |
| | 126.0 | Orangish brown silty fine SAND (wet) | 8 | | | | 5 | 5 | | |
| | | Grayish brown silty fine SAND (wet) | 9 | S-5 | SS | 18 | 5 | 6 | 11 | S-6 at 10ft |
| | | | 10 | | | | 5 | 4 | | |
| | | | 11 | S-6 | SS | 24 | 6 | 5 | 11 | Some redox strations |
| | | | 12 | | | | 6 | 6 | | |
| | | | 13 | | | | | | | |
| | | | 14 | | | | | | | |
| | 119.0 | Grayish brown fine SAND, some silt (wet) | 15 | | | | | 8 | | Auger to 15.0ft, smooth drilling S-7 at 15ft. Some redox strations |
| | | | 16 | S-7 | SS | 14 | 9 | 11 | 20 | |
| | | | 17 | | | | | 16 | | |
| | | | 18 | | | | | | | |
| | | | 19 | | | | | | | |
| | | | 20 | | | | | | | |

| Project | | Project No. | | | | | | | | | | | | |
|---------------------------|------------|--|---|--|-------------|---------|------------------|------------------------|---|--------------------|--|--|---|--|
| Hudson Logistics Center | | 151010101 | | | | | | | | | | | | |
| Location | | Elevation and Datum | | | | | | | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 134 (NGVD29) | | | | | | | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Coring (min) | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | | | | | |
| | | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | | N-Value (Blows/ft) | | | | |
| | +114.0 | Orangish brown fine-coarse SAND, some fine gravel, trace silt (wet) [TILL] | | 20 | S-8 | SS | 13 | 21 34 53 50/5 | | | | | Auger to 20.0ft, smooth drilling. S-8 at 20ft | |
| | 21 | | | 87 | | | | | | | | | | |
| | 22 | | | Possible obstruction from about 22ft to 24ft | | | | | | | | | | |
| | 23 | | | | | | | | | | | | | |
| | 24 | | | | | | | | | | | | | |
| | 104.5 | | Grayish brown fine-medium SAND, some fine gravel, trace silt (wet) [TILL] | | 25 | S-9 | SS | 10 | 17 27 30 28 | | | | | Auger to 25.0ft, hard drilling. S-9 at 25ft |
| | | | | | 26 | | | | | 57 | | | | |
| | | | | | 27 | | | | | | | | | |
| | | | | | 28 | | | | | | | | | |
| | | | | | 29 | | | | | | | | | |
| +99.5 | | Gray SHIST; fine grained; slightly weathered; moderate fracture spacing; rock quality good [BEDROCK] | | 2:32 | C-1 | NQ CORE | REC=57"/60" =95% | RQD=48.5"/60" =81% | | | | | Auger refusal encountered at 29.5ft. C-1 at 29.5ft | |
| | | | | 2:22 | | | | | | | | | | |
| | | | | 2:31 | | | | | | | | | | |
| | | | | 2:40 | | | | | | | | | | |
| | | | | 3:29 | | | | | | | | | | |
| | | Bottom of Boring | | 35 | | | | | | | Bottom of boring at 6/1/2020 Boring backfilled with auger cuttings. | | | |
| | | | | 36 | | | | | | | | | | |
| | | | | 37 | | | | | | | | | | |
| | | | | 38 | | | | | | | | | | |
| | | | | 39 | | | | | | | | | | |
| | | | | 40 | | | | | | | | | | |
| | | | | 41 | | | | | | | | | | |
| | | | | 42 | | | | | | | | | | |
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|---|--|---------------------|--|---|--|----------------------------------|-------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 136 (NGVD29) | | | |
| Drilling Company Seaboard Drilling, Inc | | | | Date Started 6/4/20 | | Date Finished 6/4/20 | |
| Drilling Equipment Diedrich D50 | | | | Completion Depth 17 ft | | Rock Depth N/E | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 7 | Undisturbed - |
| Casing Diameter (in) N/A | | | | Casing Depth (ft) N/A | | Water Level (ft.) First 10 | Completion N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Jeff Nitsch | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Taylor Sisti | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|--|-------------|-------------|------|-------------|-----------------------|---|--|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | | N-Value (Blows/ft) |
| | 136.0 | | 0 | S-1A | | | 1 | | Started Drilling at 6/4/2020 |
| | 135.8 | 2" Brown fine-medium SAND, some silt, some roots (dry) [TOPSOIL] | | | | | 1 | | S-1 at 0ft |
| | | Brown fine SAND, trace silt, trace roots (dry) | 1 | S-1B | SS | 19 | 1 | 2 | |
| | | Brown fine SAND, trace silt, trace roots (dry) | 2 | | | | 2 | | S-2 at 2ft |
| | | Brown fine SAND, some silt (dry) | 3 | S-2 | SS | 12 | 1 | 2 | |
| | | Brown fine SAND, some silt (dry) | 4 | | | | 1 | | Auger to 4ft |
| | | Brown fine SAND, some silt (dry) | 5 | S-3 | SS | 17 | 2 | 5 | S-3 at 4ft |
| | | Brown fine SAND, some silt (dry) | 6 | | | | 3 | | S-4 at 6ft |
| | | Brown fine SAND, some silt (moist) | 7 | S-4 | SS | 15 | 4 | 8 | |
| | | Brown fine SAND, some silt (wet) | 8 | | | | 4 | | Auger to 8ft |
| | | | 9 | S-5 | SS | 3 | 5 | 11 | S-5 at 8ft |
| | | | 10 | | | | 5 | | S-6 at 10ft |
| | | | 11 | S-6 | SS | 7 | 6 | 11 | |
| | | | 12 | | | | 5 | | |
| | | | 13 | | | | 4 | | |
| | | | 14 | | | | 4 | | Auger to 15ft, easy drilling |
| | | Brown fine-coarse SAND, trace silt (wet) | 15 | S-7 | SS | 18 | 4 | 8 | S-7 at 15ft |
| | | | 16 | | | | 4 | | |
| | | | 17 | | | | 4 | | |
| | 119.0 | Bottom of Boring | 17 | | | | | | Bottom of boring at 6/4/2020 |
| | | | 18 | | | | | | Boring backfilled with auger cuttings. |
| | | | 19 | | | | | | Bottom of Boring |
| | | | 20 | | | | | | |

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| | | | | | |
|---|--------------------------|----------------------------------|---|-------------------------|-------------------|
| Project Hudson Logistics Center | | | Project No. 151010101 | | |
| Location 59 Steele Road, Hudson NH | | | Elevation and Datum Elev. + 136 (NGVD29) | | |
| Drilling Company Atlantic Testing Laboratories | | Date Started 6/4/20 | | Date Finished 6/4/20 | |
| Drilling Equipment Geoprobe 7822 DT | | | Completion Depth 17 ft | | Rock Depth N/E |
| Size and Type of Bit 4in Hollow Stem Auger | | | Number of Samples | Disturbed 7 | Undisturbed - |
| Casing Diameter (in) N/A | Casing Depth (ft) N/A | Water Level (ft.) First 15 | Completion N/A | 24 HR. N/A | Core - |
| Casing Hammer N/A | Weight (lbs) N/A | Drop (in) N/A | Drilling Foreman Ben Cray | | |
| Sampler 2-inch-diameter split spoon | | | Field Engineer Jack Berritt | | |
| Sampler Hammer Automatic | Weight (lbs) 140 | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) |
|-----------------|------------|---|-------------|-------------|------|-------------|----------------------|--------------------|---|
| | | | | Number | Type | Recov. (in) | Penetr. resist Bl/ft | N-Value (Blows/ft) | |
| | 136.0 | 24" Light brown fine SAND, some silt, trace roots (dry) [TOPSOIL] | 0 | | | | WOH | | Started Drilling at 6/4/2020 S-1 at 0ft |
| | 134.0 | Light brown fine SAND, trace silt (dry) | 1 | S-1 | SS | 17 | 2 | 5 | S-2 at 2ft |
| | | Light brown fine SAND, trace silt (dry) | 2 | | | | 1 | | Auger to 4 ft |
| | | Light brown fine SAND, trace silt (dry) | 3 | S-2 | SS | 18 | 2 | 5 | S-3 at 4ft |
| | | Light brown fine SAND, trace silt (dry) | 4 | | | | 3 | | S-4 at 6ft |
| | | Light brown fine SAND, trace silt (dry) | 5 | S-3 | SS | 18 | 3 | 5 | Auger to 8 ft |
| | | Light brown fine SAND, trace silt (dry) | 6 | | | | 2 | | S-5 at 8ft |
| | | Brown fine-medium SAND, trace silt (moist) | 7 | S-4 | SS | 22 | 3 | 7 | S-6 at 10ft |
| | | Brown fine-coarse SAND, trace silt (moist) | 8 | | | | 4 | | Auger to 15 ft |
| | | Brown fine-medium SAND, trace silt (moist) | 9 | S-5 | SS | 20 | 4 | 8 | S-7 at 15ft |
| | | Brown fine-medium SAND, trace silt (moist) | 10 | | | | 4 | | |
| | | Brown fine-medium SAND, trace silt (moist) | 11 | S-6 | SS | 20 | 6 | 13 | |
| | | Brown fine-medium SAND, trace silt (moist) | 12 | | | | 7 | | |
| | | Brown fine-medium SAND, trace silt (moist) | 13 | | | | 9 | | |
| | | Brown fine-medium SAND, trace silt (moist) | 14 | | | | | | |
| | | Brown fine-medium SAND, trace silt (moist) | 15 | | | | WOH | | |
| | | Brown fine-medium SAND, trace silt (moist) | 16 | S-7 | SS | 16 | 1 | | |
| | | Bottom of Boring | 17 | | | | 2 | | Bottom of boring at 6/4/2020 Boring backfilled with auger cuttings. |
| | | | 18 | | | | | | |
| | | | 19 | | | | | | |
| | | | 20 | | | | | | |

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|---|--|--------------------------|--|--|--|---------------------------------|--|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 139 (NGVD29) | | | |
| Drilling Company Seaboard Drilling, Inc | | | | Date Started 6/4/20 | | Date Finished 6/4/20 | |
| Drilling Equipment Diedrich D50 | | | | Completion Depth 15 ft | | Rock Depth N/E | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples Disturbed 7 Undisturbed - Core - | | | |
| Casing Diameter (in) N/A | | Casing Depth (ft) N/A | | Water Level (ft.) First ∇ N/E Completion ∇ N/A | | 24 HR. ∇ N/A | |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Jeff Nitsch | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Taylor Sisti | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|--|-------------|-------------|------|-------------|-----------------------|--------------------|---|---|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | N-Value (Blows/ft) | | |
| | 139.0 | | 0 | S-1A | SS | 1 | 1 | | | Started Drilling at 6/4/2020 S-1 at 0ft |
| | 138.7 | 4" Brown to light fine-medium SAND, some silt, some roots (moist) [TOPSOIL] | 1 | S-1B | SS | 17 | 1 | 2 | | |
| | | Brown to light fine-medium SAND, some silt, trace roots (moist) | 2 | | | | 1 | | | S-2 at 2ft |
| | | Brown to light fine-coarse SAND, trace silt (moist) | 3 | S-2 | SS | 15 | 3 | 5 | | |
| | | | 4 | | | | 2 | | | Auger to 4ft |
| | | Brown to light fine-medium SAND, trace silt (moist) | 5 | S-3 | SS | 14 | 4 | 10 | | |
| | | | 6 | | | | 6 | | | S-3 at 4ft |
| | | Brown to light fine-coarse SAND, some f-c gravel, trace silt (moist) | 7 | S-4 | SS | 18 | 7 | 21 | | |
| | | | 8 | | | | 8 | | | S-4 at 6ft |
| | 131.0 | Brown to light fine-coarse SAND, some silt, trace f-c gravel (moist) [TILL] | 9 | S-5A | SS | 13 | 7 | 79 | | |
| | | Gray to light fine-medium SAND, trace silt, trace f-c gravel (moist) [TILL] | 10 | S-5B | SS | | 17 | | | Auger to 8ft |
| | | Gray to light brown fine-medium SAND, some silt, trace f-c gravel (moist) [TILL] | 11 | | | | 62 | | | S-5 at 8ft |
| | | | 12 | S-6 | SS | 14 | 20 | | | Auger to 10ft |
| | | | 13 | | | | 55 | | | |
| | | | 14 | | | | 18 | | | |
| | 124.0 | No Recovery | 15 | S-7 | SS | 0 | 17 | 35 | | |
| | | Bottom of Boring | 16 | | | | 16 | | | 50/1 |
| | | | 17 | | | | | | | Auger to 15ft, easy to moderate drilling |
| | | | 18 | | | | | | | |
| | | | 19 | | | | | | | |
| | | | 20 | | | | | | | S-7 at 15ft Bottom of boring at 6/4/2020 Boring backfilled with auger cuttings. |

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|--|--|---------------------|--|---|--|-----------------------------------|-------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 154 (NGVD29) | | | |
| Drilling Company Atlantic Testing Laboratories | | | | Date Started 6/4/20 | | Date Finished 6/4/20 | |
| Drilling Equipment CME75 Track Rig | | | | Completion Depth 10 ft | | Rock Depth 10 ft | |
| Size and Type of Bit 3-7/8in Tricone Roller Bit | | | | Number of Samples | | Disturbed 5 | Undisturbed - |
| Casing Diameter (in) 4in | | | | Casing Depth (ft) 8 | | Water Level (ft.) First N/E | Completion N/A |
| Casing Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | 24 HR. N/A | |
| Casing Hammer Automatic | | | | Drilling Foreman Brad Perry | | | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Olivia Chasse | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | | |
|-----------------|------------|--|-------------|-------------|------|-------------|-----------------------|---|--------------------|--------------------------------------|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | | N-Value (Blows/ft) | |
| | 154.0 | 24" Dark brown fine-medium SAND, trace silt, trace fine gravel, some roots (dry) [TOPSOIL] | 0 | | | | 2 | | S-1 at 0ft | |
| | 152.0 | Light brown fine-medium SAND, trace silt, trace fine gravel (dry) | 1 | S-1 | SS | 9 | 1 | | WOH | S-2 at 2ft |
| | | Brown fine-coarse SAND, some fine gravel, trace silt (moist) | 2 | S-2 | SS | 3 | 4 | 8 | | Drive casing to 4.0ft |
| | | Brown fine-coarse SAND, some fine gravel, trace silt (moist) | 3 | | | | 4 | | | S-3 at 4ft |
| | | Brown fine-coarse SAND, some fine gravel, trace silt (moist) | 4 | S-3 | SS | 10 | 8 | | | S-4 at 6ft |
| | | Brown fine-coarse SAND, some fine gravel, trace silt (moist) | 5 | | | | 13 | | | |
| | | Brown fine-coarse SAND, some fine gravel, trace silt (moist) | 6 | S-4 | SS | 13 | 8 | | | S-4 at 6ft |
| | | Brown fine-coarse SAND, some fine gravel (moist) | 7 | | | | 21 | | | |
| | | Inferred Top of Bedrock | 8 | S-5 | SS | 8 | 5 | | | Drive casing to 8.0ft |
| | 144.6 | | 9 | | | | 11 | | | S-5 at 8ft |
| | | Bottom of Boring | 10 | | | | 50/5 | | | Roller bit refusal at 10ft refusal. |
| | | | 11 | | | | | | | Bottom of boring at 6/4/2020 |
| | | | 12 | | | | | | | Boring backfilled with soil cuttings |
| | | | 13 | | | | | | | |
| | | | 14 | | | | | | | |
| | | | 15 | | | | | | | |
| | | | 16 | | | | | | | |
| | | | 17 | | | | | | | |
| | | | 18 | | | | | | | |
| | | | 19 | | | | | | | |
| | | | 20 | | | | | | | |

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|---|--|--------------------------|--|---|--|------------------------------|------------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 154 (NGVD29) | | | |
| Drilling Company Atlantic Testing Laboratories | | | | Date Started 6/4/20 | | Date Finished 6/4/20 | |
| Drilling Equipment Geoprobe 7822 DT | | | | Completion Depth 17 ft | | Rock Depth N/E | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples 7 | | Disturbed - | Undisturbed - |
| Casing Diameter (in) N/A | | Casing Depth (ft) N/A | | Water Level (ft.) First ∇ N/E | | Completion ∇ N/A | 24 HR. ∇ N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Ben Cray | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Jack Berritt | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | | |
|-----------------|------------|---|-------------|-------------|------|-------------|-----------------------|---|--|--|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | | N-Value (Blows/ft) | |
| | 154.0 | 24" Brown fine-medium SAND, trace silt, trace roots (dry) [TOPSOIL] | 0 | | | | 2 | | Started Drilling at 6/4/2020 S-1 at 0ft | |
| | 152.0 | Brown fine-medium SAND, trace silt, trace fine gravel (dry) | 1 | S-1 | SS | 19 | 3 | 5 | | S-2 at 2ft |
| | | | 2 | S-2 | SS | 13 | 4 | 12 | | Auger to 4 ft |
| | 137.0 | Brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 3 | S-3 | SS | 12 | 7 | 14 | | S-3 at 4ft |
| | | | 4 | S-4 | SS | 16 | 5 | 10 | | S-4 at 6ft |
| | | | 5 | S-5 | SS | 12 | 12 | 20 | 100/4 | |
| | | Brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 6 | S-6 | SS | 5 | 100/4 | | | S-5 at 8ft |
| | | | 7 | S-7 | SS | 17 | 13 | 34 | | S-6 at 10ft |
| | | Brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 8 | | | | | | | Auger to 14 ft. Drill to 15.0ft, heavy rig chatter |
| | | | 9 | | | | | | | S-7 at 15ft |
| | | Bottom of Boring | 10 | | | | | | | Bottom of boring at 6/4/2020 Boring backfilled with auger cuttings. |

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|--|--|-------------------------|-----------------|---|--|-------------------------|-----------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 148 (NGVD29) | | | |
| Drilling Company Atlantic Testing Laboratories | | | | Date Started 6/4/20 | | Date Finished 6/4/20 | |
| Drilling Equipment CME75 Track Rig | | | | Completion Depth 16 ft | | Rock Depth N/E | |
| Size and Type of Bit 3-7/8in Tricone Roller Bit | | | | Number of Samples | | Disturbed 8 | Undisturbed - |
| Casing Diameter (in) 4in | | Casing Depth (ft) 14 | | Water Level (ft.) First N/E | | Completion N/A | Core 24 HR. N/A |
| Casing Hammer Automatic | | Weight (lbs) 140 | Drop (in) 30 | Drilling Foreman Brad Perry | | | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Olivia Chasse | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | Drop (in) 30 | | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|--|-------------|-------------|------|-------------|-----------------------|---|---|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | | N-Value (Blows/ft) |
| | 148.0 | | 0 | | | | | | |
| | 147.5 | 6" Light brown fine-medium SAND, trace silt, trace fine gravel, some roots (dry) [TOPSOIL] | | S-1A | | | 3 | | Started Drilling at 6/4/2020 S-1 at 0ft |
| | | Light brown fine-medium SAND, trace fine gravel (dry) | 1 | S-1B | SS | 16 | 8 | 18 | |
| | | Light brown fine-coarse SAND, trace fine gravel (dry) | 2 | | | | 8 | | S-2 at 2ft |
| | | Light brown fine-coarse SAND, trace silt (dry) | 3 | S-2 | SS | 15 | 8 | 16 | |
| | | Light brown fine-coarse SAND, trace silt (dry) | 4 | | | | 2 | | Drive casing to 4ft S-3 at 4ft |
| | | Brown fine-coarse SAND, some fine gravel, trace silt (dry) | 5 | S-3 | SS | 13 | 4 | 9 | |
| | | Brown fine-coarse SAND, some fine gravel, trace silt (dry) | 6 | | | | 5 | | S-4 at 6ft |
| | | Brown fine-coarse SAND, some fine gravel, trace silt (dry) | 7 | S-4 | SS | 16 | 12 | 36 | |
| | | Brown fine-coarse SAND, some fine gravel, trace silt (dry) | 8 | | | | 18 | | Drive casing to 8ft S-5 at 8ft |
| | | Brown fine-coarse SAND, some fine gravel, trace silt (dry) | 9 | S-5 | SS | 13 | 19 | 40 | |
| | | Brown fine-coarse SAND, some fine gravel, trace silt (dry) | 10 | | | | 21 | | S-6 at 10ft |
| | | Brown fine-coarse SAND, some silt, some fine gravel (dry) | 11 | S-6 | SS | 20 | 25 | 39 | |
| | | | 12 | | | | 18 | | S-7 at 12ft |
| | | | 13 | | | | 21 | | |
| | | | 14 | S-7 | SS | 18 | 22 | 46 | |
| | | | 15 | | | | 24 | | Drive casing to 14ft S-8 at 14ft |
| | | | 16 | | | | 24 | | |
| | | Bottom of Boring | 17 | | | | 26 | | Bottom of boring at 6/4/2020 Boring backfilled with soil cuttings. |
| | | | 18 | | | | | | |
| | | | 19 | | | | | | |
| | | | 20 | | | | | | |

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| | | | | | | | |
|---|--|--------------------------|--|---|--|--------------------------------|------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 133 (NGVD29) | | | |
| Drilling Company Seaboard Drilling, Inc | | | | Date Started 6/1/20 | | Date Finished 6/1/20 | |
| Drilling Equipment Diedrich D50 | | | | Completion Depth 27 ft | | Rock Depth N/E | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples 9 | | Disturbed 9 | Undisturbed - |
| Casing Diameter (in) N/A | | Casing Depth (ft) N/A | | Water Level (ft.) First 6 | | Completion N/A | 24 HR. N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Doug Feely | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Taylor Sisti | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|---|-------------|-------------|------|-------------|-----------------------|--------------------|---|--|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | N-Value (Blows/ft) | | |
| | 133.0 | | 0 | S-1A | | | 1 | | | Started Drilling at 6/1/2020 S-1 at 0ft |
| | 132.8 | 3" Dark brown fine-medium SAND, trace silt, trace roots, 3in thick (dry)[TOPSOIL] | | | | | 2 | | | |
| | | Light brown fine SAND, trace silt (dry) | 1 | S-1B | SS | 14 | 1 | 3 | | |
| | | Light brown fine SAND, trace silt (dry) | 2 | | | | 2 | | | S-2 at 2ft |
| | | Light brown fine SAND, trace silt (dry) | 3 | S-2 | SS | 17 | 2 | 4 | | Auger to 4ft S-3 at 4ft |
| | | Light brown fine SAND, some silt, trace roots, mottled at bottom of spoon (moist) | 4 | | | | 2 | | | |
| | | Light brown fine-medium SAND, trace silt (wet) | 5 | S-3 | SS | 13 | 2 | 4 | | S-4 at 6ft |
| | | Light brown fine-medium SAND, trace silt (wet) | 6 | | | | 2 | | | |
| | | Light brown fine-coarse SAND, trace silt, trace coarse gravel (wet) | 7 | S-4 | SS | 14 | 4 | 9 | | Auger to 8ft S-5 at 8ft |
| | | Light brown fine-coarse SAND, trace silt, trace coarse gravel (wet) | 8 | | | | 3 | | | |
| | | Light brown to black fine-coarse SAND, trace silt, trace fine gravel (wet) | 9 | S-5 | SS | 13 | 5 | 8 | | Auger to 10ft S-6 at 10ft |
| | | Light brown to black fine-coarse SAND, trace silt, trace fine gravel (wet) | 10 | | | | 3 | | | |
| | | Light brown to black fine-coarse SAND, trace silt, trace fine gravel (wet) | 11 | S-6 | SS | 18 | 4 | 9 | | |
| | | Light brown to black fine-coarse SAND, trace silt, trace fine gravel (wet) | 12 | | | | 5 | | | |
| | | Light brown to black fine-coarse SAND, trace silt, trace fine gravel (wet) | 13 | | | | | | | |
| | | Light brown to black fine-coarse SAND, trace silt, trace fine gravel (wet) | 14 | | | | | | | Auger to 15ft, easy drilling |
| | | Light brown medium-coarse SAND, trace silt, trace fine gravel (wet) | 15 | | | | 2 | | | S-7 at 15ft |
| | | Light brown medium-coarse SAND, trace silt, trace fine gravel (wet) | 16 | S-7 | SS | 22 | 4 | 9 | | |
| | | Light brown medium-coarse SAND, trace silt, trace fine gravel (wet) | 17 | | | | 5 | | | |
| | | Light brown medium-coarse SAND, trace silt, trace fine gravel (wet) | 18 | | | | 6 | | | |
| | | Light brown medium-coarse SAND, trace silt, trace fine gravel (wet) | 19 | | | | | | | Auger to 20ft, easy drilling |
| | | Light brown medium-coarse SAND, trace silt, trace fine gravel (wet) | 20 | | | | | | | |

| Project | | Project No. | | | | | | |
|---------------------------|------------|---|-------------|-------------|------|-------------|------------------------|---|
| Hudson Logistics Center | | 151010101 | | | | | | |
| Location | | Elevation and Datum | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 133 (NGVD29) | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) |
| | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | |
| | 113.0 | Light brown medium-coarse SAND, trace silt, trace fine gravel (wet) | 20 | | | | 3 | S-8 at 20ft |
| | | Light brown fine SAND, some silt (wet) | 21 | S-8A | SS | 24 | 2 | |
| | | | 22 | S-8B | | | 2 | |
| | | | 23 | | | | | |
| | | | 24 | | | | | Auger to 25ft, easy drilling |
| | | Light brown fine SAND, some silt (wet) | 25 | | | | 2 | S-9 at 25ft |
| | | | 26 | S-9 | SS | 24 | 3 | |
| | | | 27 | | | | 2 | |
| | 106.0 | Bottom of Boring | 27 | | | | 3 | Bottom of boring at 6/1/2020 Boring backfilled with auger cuttings |
| | | | 28 | | | | | |
| | | | 29 | | | | | |
| | | | 30 | | | | | |
| | | | 31 | | | | | |
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|---|--|--------------------------|--|---|--|--------------------------------|-----------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 130.5 (NGVD29) | | | |
| Drilling Company Seaboard Drilling, Inc | | | | Date Started 6/1/20 | | Date Finished 6/1/20 | |
| Drilling Equipment Diedrich D50 | | | | Completion Depth 26.5 ft | | Rock Depth N/E | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples 9 | | Disturbed 9 | Undisturbed - |
| Casing Diameter (in) N/A | | Casing Depth (ft) N/A | | Water Level (ft.) First 4 | | Completion N/A | Core 24 HR. N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Doug Feely | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Taylor Sisti | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|---|-------------|-------------|------|-------------|-----------------------|--------------------|---|---|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | N-Value (Blows/ft) | | |
| | 130.5 | | 0 | S-1A | | | 1 | | | Started Drilling at 6/1/2020 10:54 AM S-1 at 0ft |
| | 130.3 | 3" Light brown fine-medium SAND, some silt, trace roots (moist) [TOPSOIL] | | | | | 2 | | | |
| | | Light brown fine SAND, some silt, trace roots (moist) | 1 | S-1B | SS | 18 | 3 | 5 | | S-2 at 2ft |
| | | Light brown fine-coarse SAND, trace silt, trace f-c gravel (moist) | 2 | | | | 4 | | | |
| | | | 3 | S-2 | SS | 19 | 5 | 11 | | Auger to 4ft |
| | | Light brown fine-coarse SAND, trace silt, trace fine gravel (wet) | 4 | | | | 2 | | | S-3 at 4ft |
| | | | 5 | S-3 | SS | 20 | 4 | 8 | | |
| | | Light brown fine-coarse SAND, trace silt, trace fine gravel (wet) | 6 | | | | 5 | | | S-4 at 6ft |
| | | | 7 | S-4 | SS | 23 | 6 | 14 | | Auger to 8ft |
| | | Light brown fine-coarse SAND, some fine gravel, trace silt (wet) | 8 | | | | 3 | | | S-5 at 8ft |
| | | | 9 | S-5 | SS | 23 | 6 | 17 | | Auger to 10ft |
| | | Light brown fine-coarse SAND, trace silt, trace f-c gravel (wet) | 10 | | | | 3 | | | S-6 at 10ft |
| | | | 11 | S-6A | SS | 19 | 3 | 8 | | |
| | 119.5 | Light brown fine SAND, some silt (wet) | 12 | S-6B | | | 5 | | | |
| | | | 13 | | | | | | | |
| | | | 14 | | | | | | | Auger to 15ft, easy drilling |
| | | Light brown silty fine-medium SAND (wet) | 15 | | | | 3 | | | S-7 at 15ft |
| | | | 16 | S-7 | SS | 24 | 4 | 8 | | |
| | | | 17 | | | | 4 | | | |
| | | | 18 | | | | | | | |
| | | | 19 | | | | | | | Auger to 20ft, moderate drilling 18.5 to 20ft |
| | | | 20 | | | | | | | |

| Project | | Project No. | | | | | | | |
|---------------------------|------------|---|-------------|-------------|------|-------------|------------------------|---|--------------------|
| Hudson Logistics Center | | 151010101 | | | | | | | |
| Location | | Elevation and Datum | | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 130.5 (NGVD29) | | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
| | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | | N-Value (Blows/ft) |
| | 110.5 | Light brown fine-coarse SAND, trace silt, trace f-c gravel (wet) | 20 | | | | 5 | S-8 at 20ft | |
| | | Light brown fine-coarse SAND, some silt, some f-c gravel, trace clay (wet) | 21 | S-8A | SS | 24 | 5 | | 22 |
| | | | 22 | S-8B | | | 17 | | 24 |
| | 105.5 | Light brown fine-coarse GRAVEL, some f-c sand, trace clay, trace silt (wet) | 25 | | | | 13 | Auger to 25ft, moderate drilling S-9 at 25ft | |
| | 103.8 | | 26 | S-9 | SS | 15 | 12 | | 25 |
| | | Bottom of Boring | 27 | | | | 13 | Bottom of boring at 6/1/2020 Boring backfilled with auger cuttings | |
| | | | 28 | | | | 50/2 | | |
| | | | 29 | | | | | | |
| | | | 30 | | | | | | |
| | | | 31 | | | | | | |
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|---|--|---------------------|--|---|--|----------------------------------|-------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 135.5 (NGVD29) | | | |
| Drilling Company Seaboard Drilling, Inc | | | | Date Started 6/1/20 | | Date Finished 6/1/20 | |
| Drilling Equipment Diedrich D50 | | | | Completion Depth 32 ft | | Rock Depth 31 ft | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 10 | Undisturbed - |
| Casing Diameter (in) N/A | | | | Casing Depth (ft) N/A | | Water Level (ft.) First 10 | Completion N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Doug Feely | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Taylor Sisti | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|--|-------------|-------------|------|-------------|-----------------------|--------------------|---|------------------------------|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | N-Value (Blows/ft) | | |
| | 135.5 | | 0 | | | | | | | Started Drilling at 6/1/2020 |
| | 135.0 | 6" Dark brown fine-medium SAND, trace silt, some roots (dry) [TOPSOIL] | | S-1 | SS | 1 | 3 | 9 | | S-1 at 0ft |
| | | Dark brown fine SAND, trace silt (moist) | 1 | | | | 4 | | | |
| | | | 2 | S-2 | SS | 14 | 5 | 6 | | S-2 at 2ft |
| | | Dark brown fine SAND, trace silt (moist) | 3 | | | | 3 | | | Auger to 4ft |
| | | | 4 | S-3 | SS | 13 | 3 | 5 | | S-3 at 4ft |
| | | Dark brown fine-medium SAND, trace silt (moist) | 5 | | | | 2 | | | |
| | | | 6 | S-4 | SS | 16 | 3 | 8 | | S-4 at 6ft |
| | | Dark brown fine-medium SAND, trace silt, trace f-c gravel (moist) | 7 | | | | 4 | | | Auger to 8ft |
| | | | 8 | S-5 | SS | 15 | 4 | 7 | | S-5 at 8ft |
| | | Dark brown fine-coarse SAND, trace silt, trace f-c gravel (wet) | 9 | | | | 3 | | | Auger to 10ft |
| | | | 10 | S-6 | SS | 11 | 6 | 11 | | S-6 at 10ft |
| | | | 11 | | | | 5 | | | |
| | | | 12 | | | | 6 | | | |
| | | | 13 | | | | | | | Auger to 15ft, easy drilling |
| | | | 14 | | | | | | | |
| | | Dark brown fine-coarse SAND, trace silt, trace fine gravel (wet) | 15 | S-7 | SS | 24 | 8 | 17 | | S-7 at 15ft |
| | | | 16 | | | | 9 | | | |
| | | | 17 | | | | 9 | | | |
| | | | 18 | | | | | | | |
| | | | 19 | | | | | | | Auger to 20ft, easy drilling |
| | | | 20 | | | | | | | |

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|---------------------------------------|---|
| Project Hudson Logistics Center | Project No. 151010101 |
| Location 59 Steele Road, Hudson NH | Elevation and Datum Elev. + 135.5 (NGVD29) |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|--|-------------|-------------|------|-------------|------------------------|---|----------------------------------|
| | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | | N-Value (Blows/ft) |
| | 115.5 | Dark brown fine-coarse SAND, trace silt, trace fine gravel (wet) | 20 | | | | | | |
| | | | 21 | S-8 | SS | 24 | 7 | 11 | S-8 at 20ft |
| | | | 22 | | | | 6 | | |
| | | | 23 | | | | 5 | | |
| | | | 24 | | | | 5 | | Auger to 25ft, easy drilling |
| | | | 25 | | | | 3 | | S-9 at 25ft |
| | | | 26 | S-9 | SS | 24 | 4 | 8 | |
| | | | 27 | | | | 4 | | |
| | | | 28 | | | | 6 | | |
| | | | 29 | | | | | | Auger to 30ft, moderate drilling |
| | | Dark brown fine-medium SAND, trace silt (wet) | 30 | | | | 29 | S-10 at 30ft | |
| | 104.5 | Dark brown to black fine-medium SAND, trace silt, trace fine gravel (wet) [WEATHERED ROCK] | 31 | S-10A | SS | 22 | 32 | 72 | |
| | 103.5 | Inferred Top of Bedrock | 32 | S-10B | | | 40 | | |
| | | Bottom of Boring | 33 | | | | 47 | Bottom of boring at 6/1/2020 Boring backfilled with auger cuttings. | |
| | | | 34 | | | | | | |
| | | | 35 | | | | | | |
| | | | 36 | | | | | | |
| | | | 37 | | | | | | |
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|---|--|---------------------|--|---|--|---------------------------------|-------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 128 (NGVD29) | | | |
| Drilling Company Atlantic Testing Laboratories | | | | Date Started 6/4/20 | | Date Finished 6/4/20 | |
| Drilling Equipment Geoprobe 7822 DT | | | | Completion Depth 17 ft | | Rock Depth N/E | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 7 | Undisturbed - |
| Casing Diameter (in) N/A | | | | Casing Depth (ft) N/A | | Water Level (ft.) First 4 | Completion N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Ben Cray | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Jack Berritt | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) |
|-----------------|------------------|--|-------------|-------------|------|-------------|-----------------------|--|---|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | N-Value (Blows/ft) | |
| | 128.0 | Brown fine SAND, trace silt (dry) | 0 | | | | 2 | | Started Drilling at 6/4/2020 S-1 at 0ft |
| | 1 | | 1 | S-1 | SS | 18 | 3 | 5 | |
| | 2 | Brown fine SAND, some silt (dry) | 2 | | | | 3 | | S-2 at 2ft |
| | 3 | | 3 | S-2 | SS | 20 | 6 | 14 | Auger to 4 ft |
| | 4 | Brown fine SAND, some silt (wet) | 4 | | | | 3 | | S-3 at 4ft |
| | 5 | | 5 | S-3 | SS | 14 | 4 | 10 | |
| | 6 | Brown fine SAND, some silt (wet) | 6 | | | | 3 | | S-4 at 6ft |
| | 7 | | 7 | S-4 | SS | 22 | 3 | 5 | Auger to 8 ft |
| | 8 | Brown fine SAND, some silt (wet) | 8 | | | | 2 | | S-5 at 8ft |
| | 9 | | 9 | S-5 | SS | 13 | 3 | 5 | |
| | 10 | Brown fine-medium SAND, some silt (wet) | 10 | | | | 3 | | S-6 at 10ft |
| | 11 | | 11 | S-6 | SS | 24 | 5 | 7 | |
| | 12 | | 12 | | | | | | |
| | 13 | | 13 | | | | | | Auger to 14.0ft |
| | 14 | | 14 | | | | | | |
| | 15 | Brown fine-coarse SAND, trace silt (wet) | 15 | | | | 1 | | S-7 at 15ft |
| | 16 | | 16 | S-7 | SS | 20 | 1 | WOH | |
| 17 | Bottom of Boring | 17 | | | | 1 | WOH | Bottom of boring at 6/4/2020 Boring backfilled with auger cuttings. | |
| | | 18 | | | | | | | |
| | | 19 | | | | | | | |
| | | 20 | | | | | | | |

I:\LANGAN\COMDATA\BOS\DATA\1151010101\PROJECT DATA\DISCIPLINE\TECHNICAL\GINTLOGS\1151010101 ENTERPRISE BORINGS USE.GPJ... 7/22/2020 9:55:40 AM ... Report: Log - LANGAN

| | | | | | |
|--|--|---------------------------|---|----------------------------|-------------|
| Project Hudson Logistics Center | | | Project No. 151010101 | | |
| Location 59 Steele Road, Hudson NH | | | Elevation and Datum Elev. + 129 (NGVD29) | | |
| Drilling Company Atlantic Testing Laboratories | | Date Started 6/8/20 | | Date Finished 6/8/20 | |
| Drilling Equipment CME75 Track Rig | | Completion Depth 16 ft | | Rock Depth N/E | |
| Size and Type of Bit 3-7/8in Tricone Roller Bit | | | Number of Samples | Disturbed | Undisturbed |
| Casing Diameter (in) 4in | | | Casing Depth (ft) 14 | Water Level (ft.) First | Core |
| Casing Hammer Automatic | | Weight (lbs) 140 | Drop (in) 30 | Completion | 24 HR. |
| Sampler 2-inch-diameter split spoon | | Weight (lbs) 140 | Drop (in) 30 | Completion | N/A |
| Drilling Foreman Brad Perry | | | Field Engineer Olivia Chasse | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|--|-------------|-------------|------|-------------|-----------------------|--------------------|---|---|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | N-Value (Blows/ft) | | |
| | 129.0 | | 0 | | | | | | | |
| | 128.8 | 4" Light brown fine SAND, some silt (dry) [TOPSOIL] | 0 | | | | 3 | | | S-1 at 0ft |
| | | | 1 | S-1 | SS | 17 | 4 | 8 | | |
| | | Light brown fine SAND, trace silt (dry) | 2 | | | | 4 | | | S-2 at 2ft |
| | | | 3 | S-2 | SS | 20 | 5 | 10 | | |
| | | Light brown fine SAND, some silt (wet) | 4 | | | | 5 | | | Drive casing to 4.0ft S-3 at 4ft |
| | | | 5 | S-3 | SS | 13 | 2 | 5 | | |
| | | Light brown fine SAND, some silt (wet) | 6 | | | | 3 | | | S-4 at 6ft |
| | | | 7 | S-4 | SS | 16 | 4 | 8 | | |
| | | Light brown fine SAND, some silt (wet) | 8 | | | | 4 | | | Drive casing to 8.0ft S-5 at 8ft |
| | | | 9 | S-5 | SS | 4 | 3 | 5 | | |
| | | Light brown fine SAND, some silt (wet) | 10 | | | | 3 | | | S-6 at 10ft |
| | | | 11 | S-6A | SS | 18 | 4 | 6 | | |
| | | Orangish brown fine-coarse SAND, trace silt (wet) | 12 | S-6B | | | 5 | 11 | | |
| | | | 13 | | | | | | | |
| | 115.0 | Grayish brown fine-medium SAND, some silt, some fine gravel (wet) [TILL] | 14 | | | | 7 | | | Drive casing to 14.0ft S-7 at 14ft |
| | | | 15 | S-7 | SS | 8 | 17 | 60 | | |
| | | | 16 | | | | 43 | | | |
| | 113.0 | Bottom of Boring | 16 | | | | 28 | | | Started Drilling at 6/8/2020 Boring backfilled with soil cuttings. |
| | | | 17 | | | | | | | |
| | | | 18 | | | | | | | |
| | | | 19 | | | | | | | |
| | | | 20 | | | | | | | |

\\LANGAN.COM\DATA\BOS\DATA\11510101\PROJECT DATA\DISCIPLINE\GEO\TECHNICAL\GINTLOGS\151010101 ENTERPRISE BORINGS USE.GPJ... 7/22/2020 9:55:42 AM ... Report: Log - LANGAN

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|---|--|---------------------|--|---|--|---------------------------------|-------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 133.5 (NGVD29) | | | |
| Drilling Company Seaboard Drilling, Inc | | | | Date Started 6/5/20 | | Date Finished 6/5/20 | |
| Drilling Equipment Diedrich D50 | | | | Completion Depth 22 ft | | Rock Depth N/E | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 8 | Undisturbed - |
| Casing Diameter (in) N/A | | | | Casing Depth (ft) N/A | | Water Level (ft.) First 4 | Completion N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | 24 HR. N/A | |
| Casing Hammer N/A | | | | Drilling Foreman Jeff Nitsch | | | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Taylor Sisti | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | | |
|-----------------|------------|--|-------------|-------------|------|-------------|-----------------------|---|--------------------|--|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | | N-Value (Blows/ft) | |
| | 133.5 | | 0 | | | | | | | |
| | 132.9 | 8" Dark brown fine-medium SAND, some silt, some roots, (moist) [TOPSOIL] | | S-1A | SS | 16 | 2 | | | Started Drilling at 6/5/2020 S-1 at 0ft |
| | | Light brown fine-medium SAND, some silt, trace roots (moist) | 1 | S-1B | SS | 3 | 4 | | | |
| | | Light brown fine-coarse SAND, some silt, trace fine gravel (moist) | 2 | | | 3 | | | | S-2 at 2ft |
| | | Light brown fine-coarse SAND, trace silt (wet) | 3 | S-2 | SS | 19 | 7 | | | Auger to 4ft S-3 at 4ft |
| | | Light brown fine-coarse SAND, trace silt (wet) | 4 | | | 4 | | | | |
| | | Light brown fine-coarse SAND, trace silt (wet) | 5 | S-3 | SS | 20 | 11 | | | S-4 at 6ft |
| | | Light brown fine-coarse SAND, trace silt (wet) | 6 | | | 4 | | | | |
| | | Light brown fine-coarse SAND, trace silt, trace fine gravel (wet) | 7 | S-4 | SS | 24 | 9 | | | Auger to 8ft S-5 at 8ft |
| | | Light brown fine-coarse SAND, trace silt, trace fine gravel (wet) | 8 | | | 2 | | | | |
| | | Light brown fine-coarse SAND, trace silt, trace fine gravel (wet) | 9 | S-5 | SS | 18 | 4 | | | Auger to 10ft S-6 at 10ft |
| | | Light brown fine-coarse SAND, trace silt, trace fine gravel (wet) | 10 | | | 3 | | | | |
| | | Light brown fine-coarse SAND, trace silt, trace fine gravel (wet) | 11 | S-6 | SS | 15 | 9 | | | |
| | | | 12 | | | 6 | | | | |
| | | | 13 | | | | | | | Auger to 15ft, easy drilling, moderate drilling starting at 14ft |
| | | | 14 | | | | | | | |
| | | No Recovery | 15 | S-7 | SS | 0 | 77 | | | S-7 at 15ft |
| | | | 16 | | | | 50/2 | | | Hard drilling to 16ft, inferred boulder. Moderate drilling to 20ft |
| | | | 17 | | | | | | | |
| | | | 18 | | | | | | | |
| | | | 19 | | | | | | | |
| | 114.5 | | 20 | | | | | | | |

| Project | | Project No. | | | | | | |
|---------------------------|------------|--|-------------|-------------|------|-------------|------------------------|---|
| Hudson Logistics Center | | 151010101 | | | | | | |
| Location | | Elevation and Datum | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 133.5 (NGVD29) | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) |
| | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | |
| | +113.5 | Brown to black fine-medium SAND, some silt, trace fine gravel (wet) [WEATHERED ROCK] | 20 | | | | | S-8 at 20ft |
| | | | 21 | S-8 | SS | 13 | 19 22 16 21 | |
| | +111.5 | Bottom of Boring | 22 | | | | | Bottom of boring at 6/5/2020 Boring backfilled with auger cuttings. |
| | | | 23 | | | | | |
| | | | 24 | | | | | |
| | | | 25 | | | | | |
| | | | 26 | | | | | |
| | | | 27 | | | | | |
| | | | 28 | | | | | |
| | | | 29 | | | | | |
| | | | 30 | | | | | |
| | | | 31 | | | | | |
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| | | | 34 | | | | | |
| | | | 35 | | | | | |
| | | | 36 | | | | | |
| | | | 37 | | | | | |
| | | | 38 | | | | | |
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| | | | 40 | | | | | |
| | | | 41 | | | | | |
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| | | | 44 | | | | | |
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| | | | | | |
|---|--|--|---|-----------------------------------|--------------------------------|
| Project Hudson Logistics Center | | | Project No. 151010101 | | |
| Location 59 Steele Road, Hudson NH | | | Elevation and Datum Elev. + 150.5 (NGVD29) | | |
| Drilling Company Atlantic Testing Laboratories | | | Date Started 6/12/20 | | Date Finished 6/12/20 |
| Drilling Equipment Geoprobe 7822 DT | | | Completion Depth 19 ft | | Rock Depth N/E |
| Size and Type of Bit 4in Hollow Stem Auger | | | Number of Samples | Disturbed 8 | Undisturbed - |
| Casing Diameter (in) N/A | | | Casing Depth (ft) N/A | Water Level (ft.) First N/E | Completion N/A |
| Casing Hammer N/A | | | Weight (lbs) N/A | Drop (in) N/A | 24 HR. N/A |
| Sampler 2-inch-diameter split spoon | | | Drilling Foreman Ben Cray | | |
| Sampler Hammer Automatic | | | Weight (lbs) 140 | Drop (in) 30 | Field Engineer Jack Berritt |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | | |
|-----------------|--|---|-------------|-------------|------|-------------|-----------------------|---|---|---|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | | N-Value (Blows/ft) | |
| | 150.5 | Light brown fine-medium SAND, trace silt (dry) | 0 | | | | 1 | | Started Drilling at 6/12/2020 S-1 at 0ft | |
| | 1 | Light brown fine-coarse SAND, trace silt (dry) | 1 | S-1 | SS | 14 | 2 | 5 | | S-2 at 2ft |
| | 2 | Light brown fine-coarse SAND, trace silt (dry) | 2 | | | | 3 | | | Auger to 4 ft |
| | 3 | Light brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 3 | S-2 | SS | 13 | 4 | 9 | | S-3 at 4ft |
| | 4 | Light brown fine-medium SAND, trace silt (dry) | 4 | | | | 4 | | | S-4 at 6ft |
| | 5 | Light brown fine-medium SAND, trace silt (dry) | 5 | S-3 | SS | 15 | 7 | 17 | | Auger to 8 ft |
| | 6 | Light brown fine-medium SAND, trace silt (dry) | 6 | | | | 10 | | | S-5 at 8ft |
| | 7 | Light brown fine-medium SAND, trace silt (moist) | 7 | S-4 | SS | 19 | 10 | 20 | | S-6 at 10ft |
| | 8 | Light brown fine-medium SAND, trace silt (moist) | 8 | | | | 10 | | | Auger to 15 ft |
| | 9 | Light brown fine-medium SAND, trace silt (moist) | 9 | S-5 | SS | 18 | 12 | 23 | | S-7 at 15ft |
| | 10 | Light brown fine-medium SAND, trace silt (moist) | 10 | | | | 13 | | | S-8 at 17ft |
| | 11 | Light brown fine-medium SAND, trace silt (moist) | 11 | S-6 | SS | 14 | 6 | 15 | | Bottom of boring at 6/12/2020 Boring backfilled with auger cuttings. |
| | 12 | Light brown fine-medium SAND, trace silt (moist) | 12 | | | | 9 | | | |
| | 13 | Light brown fine-medium SAND, trace silt (moist) | 13 | | | | 11 | | | |
| | 14 | Light brown fine-medium SAND, trace silt (moist) | 14 | | | | 13 | | | |
| | 15 | Light brown fine-medium SAND, trace silt (moist) | 15 | S-7 | SS | 20 | 6 | 15 | | |
| | 16 | Light brown fine-medium SAND, trace silt (moist) | 16 | | | | 9 | | | |
| | 17 | Light brown fine-medium SAND, trace silt (moist) | 17 | | | | 8 | | | |
| | 18 | Light brown fine-medium SAND, trace silt (moist) | 18 | S-8 | SS | 21 | 10 | 25 | | |
| 19 | Light brown fine-medium SAND, trace silt (moist) | 19 | | | | 15 | | | | |
| 20 | Light brown fine-medium SAND, trace silt (moist) | 20 | | | | 15 | | | | |

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|---|--|---------------------|--|---|--|---------------------------------|-------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 133 (NGVD29) | | | |
| Drilling Company SoilTesting, Inc. | | | | Date Started 7/1/20 | | Date Finished 7/1/20 | |
| Drilling Equipment Truck Rig | | | | Completion Depth 17 ft | | Rock Depth 17 ft | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 7 | Undisturbed - |
| Casing Diameter (in) N/A | | | | Casing Depth (ft) N/A | | Water Level (ft.) First 8 | Completion 8.5 |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | 24 HR. N/A | |
| Sampler 2-inch-diameter split spoon | | | | Drilling Foreman Mike Kennedy | | | |
| Sampler Hammer Safety | | | | Weight (lbs) 140 | | Drop (in) 30 | |
| | | | | Field Engineer Taylor Sisti | | | |

| Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) |
|------------|--|-------------|-------------|------|-------------|-----------------------|---|
| | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | |
| 133.0 | | 0 | | | | | |
| 132.4 | Orangish brown fine-medium SAND, some silt, some roots (moist) [TOPSOIL] | 0 | S-1A | SS | 2 | 2 | Started Drilling at 7/1/2020 S-1 at 0ft |
| | Orangish brown SILT, some fine sand, trace roots (moist) | 1 | S-1B | SS | 12 | 3 | |
| | Orangish brown SILT, some fine sand (moist) | 2 | | | | 4 | S-2 at 2ft |
| 129.5 | Brown fine-medium SAND, trace silt (dry) | 3 | S-2A | SS | 13 | 4 | |
| | Brown fine-coarse SAND, trace silt, trace fine gravel (moist) | 4 | S-2B | SS | | 8 | Auger to 4ft S-3 at 4ft |
| | Brown fine-medium SAND, trace silt (moist) | 5 | S-3 | SS | 14 | 11 | |
| | Brown fine-coarse SAND, some f-c gravel, trace silt (wet) | 6 | S-4 | SS | 16 | 12 | S-4 at 6ft |
| | Brown fine-coarse SAND, some f-c gravel, trace silt (wet) | 7 | S-5 | SS | 13 | 11 | |
| | Brown fine-coarse SAND, some f-c gravel, trace silt (wet) | 8 | S-6 | SS | 20 | 7 | Auger to 8ft S-5 at 8ft |
| | | 9 | | | | 14 | |
| | | 10 | | | | 11 | S-6 at 10ft |
| | | 11 | | | | 7 | |
| | | 12 | | | | 9 | |
| | | 13 | | | | 7 | |
| 119.0 | ? | 14 | | | | | |
| | Brown fine-coarse SAND, some silt, some fine gravel (wet) [TILL] | 15 | S-7 | SS | 10 | 6 | Auger to 15ft S-7 at 15ft |
| | | 16 | | | | 46 | |
| | | 17 | | | | 33 | |
| | | 18 | | | | 50/4 | |
| 116.2 | Bottom of Boring | 17 | | | | | Bottom of boring at 7/1/2020 Boring backfilled with auger cuttings. |
| | | 19 | | | | | |
| | | 20 | | | | | |

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|---|--|--------------------------|--|---|--|----------------------------------|---------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 133 (NGVD29) | | | |
| Drilling Company SoilTesting, Inc. | | | | Date Started 7/2/20 | | Date Finished 7/2/20 | |
| Drilling Equipment Truck Rig | | | | Completion Depth 17 ft | | Rock Depth N/E | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples Disturbed 7 | | Undisturbed - | Core - |
| Casing Diameter (in) N/A | | Casing Depth (ft) N/A | | Water Level (ft.) First 8 | | Completion N/A | 24 HR. N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Mike Kennedy | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Taylor Sisti | | | |
| Sampler Hammer Safety | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|---|-------------|-------------|------|-------------|-----------------------|---|--|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | | N-Value (Blows/ft) |
| | 133.0 | | 0 | S-1A | SS | 2 | 2 | 10 | Started Drilling at 7/2/2020 S-1 at 0ft |
| | 132.5 | 5" Brown fine-medium SAND, some silt, some roots (moist) [TOPSOIL] Brown sandy SILT, trace roots (moist) | 1 | S-1B | SS | 18 | 4 | 10 | |
| | | Brown sandy SILT, trace roots (moist) | 2 | | | 6 | 6 | | S-2 at 2ft |
| | | Brown silty fine SAND (moist) | 3 | S-2 | SS | 16 | 3 | 8 | Auger to 4ft S-3 at 4ft |
| | | Brown silty fine SAND (moist) | 4 | | | 4 | 4 | | |
| | | Brown silty fine SAND (moist) | 5 | S-3 | SS | 19 | 5 | 15 | S-4 at 6ft |
| | | | 6 | | | 8 | 7 | | |
| | | | 7 | S-4 | SS | 15 | 10 | 24 | |
| | | | 8 | | | 14 | 15 | | Auger to 8ft S-5 at 8ft |
| | | Brown fine-coarse SAND, trace silt, trace fine gravel (wet) | 9 | S-5 | SS | 11 | 6 | 15 | |
| | | | 10 | | | 7 | 8 | | |
| | | Brown fine-coarse SAND, trace silt, trace fine gravel (wet) | 11 | S-6 | SS | 18 | 9 | 12 | S-6 at 10ft |
| | | | 12 | | | 6 | 6 | | |
| | | | 13 | S-7 | SS | 12 | 7 | | |
| | | | 14 | | | 19 | 6 | | |
| | | | 15 | | | 50/3 | 50/3 | 50/3 | Auger to 15ft S-7 at 15ft |
| | | | 16 | | | | | | |
| | 116.8 | Bottom of Boring | 17 | | | | | | Bottom of boring at 7/2/2020 Boring backfilled with auger cuttings. |
| | | | 18 | | | | | | |
| | | | 19 | | | | | | |
| | | | 20 | | | | | | |

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|---|--|---------------------|--|---|--|----------------------------------|-------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 131 (NGVD29) | | | |
| Drilling Company SoilTesting, Inc. | | | | Date Started 7/2/20 | | Date Finished 7/2/20 | |
| Drilling Equipment Truck Rig | | | | Completion Depth 12 ft | | Rock Depth N/E | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 6 | Undisturbed - |
| Casing Diameter (in) N/A | | | | Casing Depth (ft) N/A | | Water Level (ft.) First 4 | Completion N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Mike Kennedy | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Taylor Sisti | | | |
| Sampler Hammer Safety | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | | |
|-----------------|------------|---|-------------|-------------|------|-------------|-----------------------|---|------------------------------|--|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | | N-Value (Blows/ft) | |
| | 131.0 | | 0 | | | | | | Started Drilling at 7/2/2020 | |
| | 130.4 | Brown fine-medium SAND, some silt, some roots (moist) [TOPSOIL] | | S-1A | SS | 2 | 2 | | | S-1 at 0ft |
| | | Brown SILT, some fine sand, trace roots (moist) | 1 | | | 16 | 2 | | | |
| | | | | S-1B | SS | 2 | 3 | | | |
| | 129.0 | Brown silty fine SAND (moist) | 2 | | | | | | | S-2 at 2ft |
| | | | 3 | S-2 | SS | 18 | 3 | 8 | | Auger to 4ft |
| | | Brown silty fine SAND, mottled (wet) | 4 | | | | 5 | | | S-3 at 4ft |
| | | | 5 | S-3 | SS | 17 | 5 | 11 | | |
| | | Brown silty fine SAND (wet) | 6 | | | | 6 | | | S-4 at 6ft |
| | | | 7 | S-4 | SS | 16 | 5 | 13 | | Auger to 8ft |
| | | Brown silty fine SAND (wet) | 8 | | | | 8 | | | S-5 at 8ft |
| | | | 9 | S-5A | SS | 18 | 7 | 15 | | |
| | 121.4 | Brown fine-coarse SAND, trace silt (wet) | 10 | | | | 8 | | | S-6 at 10ft |
| | | Brown fine-coarse SAND, trace silt, trace f-c gravel (wet) | 11 | S-5B | SS | 5 | 7 | | | |
| | | | | S-6 | SS | 22 | 6 | 11 | | |
| | 119.0 | Bottom of Boring | 12 | | | | 5 | | | Bottom of boring at 7/2/2020 |
| | | | 13 | | | | 6 | | | Boring backfilled with auger cuttings. |
| | | | 14 | | | | | | | |
| | | | 15 | | | | | | | |
| | | | 16 | | | | | | | |
| | | | 17 | | | | | | | |
| | | | 18 | | | | | | | |
| | | | 19 | | | | | | | |
| | | | 20 | | | | | | | |

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|---|--|--------------------------|--|---|--|----------------------------------|---------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 131.5 (NGVD29) | | | |
| Drilling Company SoilTesting, Inc. | | | | Date Started 7/2/20 | | Date Finished 7/2/20 | |
| Drilling Equipment Truck Rig | | | | Completion Depth 12 ft | | Rock Depth N/E | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples Disturbed 6 | | Undisturbed - | Core - |
| Casing Diameter (in) N/A | | Casing Depth (ft) N/A | | Water Level (ft.) First 8 | | Completion N/A | 24 HR. N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Mike Kennedy | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Taylor Sisti | | | |
| Sampler Hammer Safety | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) |
|-----------------|------------|---|-------------|-------------|------|-------------|-----------------------|--------------------|---|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | N-Value (Blows/ft) | |
| | 131.5 | | 0 | | | | | | Started Drilling at 7/2/2020 |
| | 130.9 | 8" Brown fine-medium SAND, some silt, some roots (moist) [TOPSOIL] | 0 | S-1A | SS | 3 | 3 | | S-1 at 0ft |
| | | Brown SILT, some fine sand, trace roots (moist) | 1 | | | 19 | 4 | 7 | |
| | | | 2 | S-1B | SS | 5 | 5 | | S-2 at 2ft |
| | 129.5 | Brown fine SAND, some silt (moist) | 2 | | | 4 | 4 | | |
| | | | 3 | S-2 | SS | 17 | 5 | 10 | Auger to 4ft |
| | | Brown fine-medium SAND, trace silt and SILT, some fine sand layers 3-5 inches thick (moist) | 4 | | | 4 | 5 | | S-3 at 4ft |
| | | | 5 | S-3 | SS | 21 | 4 | 11 | |
| | | Brown fine-medium SAND, trace silt and SILT, some fine sand layers 3-5 inches thick (moist) | 6 | | | 7 | 5 | | S-4 at 6ft |
| | | | 7 | S-4 | SS | 23 | 7 | 15 | |
| | | | 8 | | | 7 | 8 | | Auger to 8ft |
| | 123.5 | Brown fine-coarse SAND, trace silt, trace fine gravel (wet) | 8 | | | 5 | 9 | | S-5 at 8ft |
| | | | 9 | S-5 | SS | 18 | 9 | 19 | |
| | | Brown fine-medium SAND, trace silt, trace fine gravel (wet) | 10 | | | 10 | 14 | | S-6 at 10ft |
| | | | 11 | S-6 | SS | 17 | 9 | 19 | |
| | | | 12 | | | 10 | 10 | | |
| | 119.5 | Bottom of Boring | 12 | | | | 16 | | Bottom of boring at 7/6/2020 |
| | | | 13 | | | | | | Boring backfilled with auger cuttings. |
| | | | 14 | | | | | | |
| | | | 15 | | | | | | |
| | | | 16 | | | | | | |
| | | | 17 | | | | | | |
| | | | 18 | | | | | | |
| | | | 19 | | | | | | |
| | | | 20 | | | | | | |

I:\LANGAN.COM\DATA\BOS\DATA\11510101\PROJECT DATA\DISCIPLINE\GEO\TECHNICAL\LOGS\151010101_ENTERPRISE_BORINGS_USE.GPJ...7/22/2020 9:55:58 AM...Report: Log - LANGAN

| | | | | | | | |
|---|--|---------------------|--|---|--|---------------------------------|------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 131 (NGVD29) | | | |
| Drilling Company Atlantic Testing Laboratories | | | | Date Started 7/2/20 | | Date Finished 7/2/20 | |
| Drilling Equipment Geoprobe 7822 DT | | | | Completion Depth 12 ft | | Rock Depth N/E | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 6 | Undisturbed - |
| Casing Diameter (in) N/A | | | | Casing Depth (ft) N/A | | Water Level (ft.) First 6 | Completion 7 |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Ben Cray | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Olivia Chasse | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) |
|-----------------|------------|---|-------------|-------------|------|-------------|-----------------------|--------------------|---|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | N-Value (Blows/ft) | |
| | 131.0 | | 0 | S-1A | | | 2 | | Started Drilling at 7/2/2020 |
| | 130.7 | Brown fine-medium SAND, trace silt, trace roots (dry) [TOPSOIL] | | | | | 2 | | S-1 at 0ft |
| | | Light brown fine SAND, some silt (dry) | 1 | S-1B | SS | 16 | 3 | 5 | |
| | | Light brown fine SAND, some silt (dry) | 2 | | | | 2 | | S-2 at 2ft |
| | | Light brown fine SAND, some silt (dry) | 3 | S-2 | SS | 14 | 2 | 5 | |
| | | Light brown fine SAND, some silt (moist) | 4 | | | | 2 | | Auger to 4ft, easy augering |
| | | Light brown fine SAND, some silt (wet) | 5 | S-3 | SS | 18 | 1 | 3 | S-3 at 4ft |
| | | Light brown fine SAND, some silt (wet) | 6 | | | | 2 | | S-4 at 6ft |
| | | Light brown fine SAND, trace silt (wet) | 7 | S-4 | SS | 17 | 3 | 7 | |
| | | Light brown fine SAND, trace silt (wet) | 8 | | | | 4 | | Auger to 8ft, easy augering. |
| | | Light brown fine SAND, some silt (wet) | 9 | S-5 | SS | 7 | 4 | 8 | Water introduced to augers. |
| | | Light brown fine SAND, some silt (wet) | 10 | | | | 3 | | S-5 at 8ft |
| | | Light brown fine SAND, some silt (wet) | 11 | S-6 | SS | 20 | 2 | 4 | S-6 at 10ft |
| | 119.0 | Bottom of Boring | 12 | | | | 2 | | Bottom of boring at 7/2/2020 |
| | | | 13 | | | | | | Boring backfilled with auger cuttings. |
| | | | 14 | | | | | | |
| | | | 15 | | | | | | |
| | | | 16 | | | | | | |
| | | | 17 | | | | | | |
| | | | 18 | | | | | | |
| | | | 19 | | | | | | |
| | | | 20 | | | | | | |

I:\LANGAN\COMDATA\BOS\DATA\11510101\PROJECT DATA\DISCIPLINE\GEO\TECHNICAL\GINTLOGS\1151010101 ENTERPRISE BORINGS USE.GPJ... 7/22/2020 9:56:00 AM ... Report: Log - LANGAN

| | | | | | | | |
|---|--|--------------------------|--|---|--|------------------------------|------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 131.5 (NGVD29) | | | |
| Drilling Company Atlantic Testing Laboratories | | | | Date Started 6/5/20 | | Date Finished 6/5/20 | |
| Drilling Equipment Geoprobe 7822 DT | | | | Completion Depth 19 ft | | Rock Depth N/E | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 8 | Undisturbed - |
| Casing Diameter (in) N/A | | Casing Depth (ft) N/A | | Water Level (ft.) First 8 | | Completion N/A | 24 HR. N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Ben Cray | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Jack Berritt | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) |
|-----------------|------------------|---|-------------|-------------|------|-------------|-----------------------|--|---|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | N-Value (Blows/ft) | |
| | 131.5 | Orangish brown fine SAND, trace silt (dry) | 0 | | | | 3 | | Started Drilling at 6/5/2020 S-1 at 0ft |
| | 1 | Orangish brown fine SAND, some silt (moist) | 1 | S-1 | SS | 16 | 3 | 5 | S-2 at 2ft |
| | 2 | | | | | 3 | | | |
| | 3 | Orangish brown fine SAND, some silt (moist) | 3 | S-2 | SS | 16 | 4 | 9 | Auger to 4.0ft |
| | 4 | | | | | 5 | | | |
| | 5 | Orangish brown fine SAND, some silt (moist) | 5 | S-3 | SS | 17 | 2 | 4 | S-3 at 4ft |
| | 6 | | | | | 2 | | | |
| | 7 | Orangish brown fine SAND, some silt (moist) | 7 | S-4 | SS | 18 | 3 | 5 | S-4 at 6ft |
| | 8 | | | | | 2 | | | |
| | 9 | Orangish brown fine SAND, some silt (wet) | 9 | S-5 | SS | 15 | 2 | 4 | Auger to 8.0ft |
| | 10 | | | | | 2 | | | |
| | 11 | Orangish brown fine SAND, some silt (wet) | 11 | S-6 | SS | 18 | 2 | 4 | S-5 at 8ft |
| | 12 | | | | | 2 | | | |
| | 13 | Orangish brown fine-medium SAND, some silt, trace fine gravel (wet) | 13 | | | | 2 | | S-6 at 10ft |
| | 14 | | | | | | 2 | | |
| | 15 | Orangish brown gravelly fine-coarse SAND, some silt (wet) | 15 | | | | 3 | | Auger to 15.0ft |
| | 16 | | | | | | 6 | | |
| | 17 | Orangish brown gravelly fine-coarse SAND, some silt (wet) | 17 | S-7 | SS | 15 | 13 | 19 | S-7 at 15ft |
| | 18 | | | | | | 20 | | |
| 19 | Bottom of Boring | 19 | S-8 | SS | 8 | 10 | 16 | S-8 at 17ft | |
| 20 | | | | | | 6 | | | |
| | | | 20 | | | | 5 | Bottom of boring at 6/5/2020 Boring backfilled with auger cuttings. | |

\\LANGAN.COM\DATA\BOS\DATA\11510101\PROJECT DATA\DISCIPLINE\GEO\TECHNICAL\GINTLOGS\1151010101 ENTERPRISE BORINGS USE.GPJ... 7/22/2020 9:56:03 AM ... Report: Log - LANGAN

| | | | | | | | |
|---|--|---------------------|--|---|--|---------------------------------|-------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 129.5 (NGVD29) | | | |
| Drilling Company Atlantic Testing Laboratories | | | | Date Started 6/5/20 | | Date Finished 6/5/20 | |
| Drilling Equipment Geoprobe 7822 DT | | | | Completion Depth 19 ft | | Rock Depth N/E | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 8 | Undisturbed - |
| Casing Diameter (in) N/A | | | | Casing Depth (ft) N/A | | Water Level (ft.) First 6 | Completion N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | 24 HR. N/A | |
| Sampler 2-inch-diameter split spoon | | | | Drilling Foreman Ben Cray | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | Field Engineer Jack Berritt | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | | |
|-----------------|------------|--|-------------|-------------|------|-------------|-----------------------|---|---|----------------|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | | N-Value (Blows/ft) | |
| | 129.5 | Brown fine SAND, trace silt (dry) | 0 | | | | 1 | | Started Drilling at 6/5/2020 S-1 at 0ft | |
| | 1 | | 1 | S-1 | SS | 16 | 2 | 5 | | |
| | 2 | Brown fine SAND, some silt (dry) | 2 | | | | 3 | | S-2 at 2ft | |
| | 3 | | 3 | S-2 | SS | 18 | 4 | 9 | | Auger to 4 ft |
| | 4 | Brown fine SAND, some silt (moist) | 4 | | | | 3 | | S-3 at 4ft | |
| | 5 | | 5 | S-3 | SS | 14 | 2 | 5 | | |
| | 6 | Brown fine SAND, some silt (wet) | 6 | | | | 3 | | S-4 at 6ft | |
| | 7 | | 7 | S-4 | SS | 19 | 4 | 7 | | Auger to 8 ft |
| | 8 | Brown fine SAND, some silt (wet) | 8 | | | | 2 | | S-5 at 8ft | |
| | 9 | | 9 | S-5 | SS | 15 | 2 | 3 | | |
| | 10 | Brown fine-medium SAND, trace silt (wet) | 10 | | | | 2 | | S-6 at 10ft | |
| | 11 | | 11 | S-6 | SS | 20 | 3 | 7 | | |
| | 12 | | 12 | | | | 4 | | | |
| | 13 | | 13 | | | | | | | Auger to 15 ft |
| | 14 | | 14 | | | | | | | |
| | 15 | Brown fine-coarse SAND, some fine gravel, trace silt (wet) | 15 | | | | 4 | | | S-7 at 15ft |
| | 16 | | 16 | S-7 | SS | 15 | 5 | 10 | | |
| | 17 | Brownish gray fine-coarse SAND, some fine gravel, trace silt (wet) | 17 | | | | 6 | | | S-8 at 17ft |
| | 18 | | 18 | S-8 | SS | 18 | 3 | 49 | 65 | |
| 19 | | 19 | | | | 16 | | | | |
| 20 | | 20 | | | | 14 | | | Bottom of boring at 6/5/2020 Boring backfilled with auger cuttings | |

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| | | | | | | | |
|---|--|--------------------------|--|---|--|-----------------------------------|------------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 146.5 (NGVD29) | | | |
| Drilling Company SoilTesting, Inc. | | | | Date Started 7/2/20 | | Date Finished 7/2/20 | |
| Drilling Equipment Truck Rig | | | | Completion Depth 12 ft | | Rock Depth N/E | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples 6 | | Undisturbed - | Core - |
| Casing Diameter (in) N/A | | Casing Depth (ft) N/A | | Water Level (ft.) First ∇ N/E | | Completion ∇ N/A | 24 HR. ∇ N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Sam Deangelis | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Taylor Sisti | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | | |
|-----------------|------------|---|-------------|-------------|------|-------------|-----------------------|---|--------------------|--|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | | N-Value (Blows/ft) | |
| | 146.5 | | 0 | | | | | | | |
| | 146.2 | 4" Dark brown fine-medium SAND, trace silt, trace roots (moist) [TOPSOIL] | | | | | | | | Started Drilling at 7/2/2020 S-1 at 0ft |
| | | Light brown fine-medium SAND, trace silt (dry) | 1 | S-1A | SS | 14 | 3 | 5 | | |
| | | Light brown fine-medium SAND, trace silt (dry) | 2 | S-1B | | | 3 | | | S-2 at 2ft |
| | | Light brown fine-medium SAND, trace silt (dry) | 3 | S-2 | SS | 18 | 2 | 5 | | Auger to 4ft. Easy drilling |
| | | Light brown fine-medium SAND, trace silt (dry) | 4 | | | | 7 | | | S-3 at 4ft |
| | | Light brown fine-medium SAND, trace silt (dry) | 5 | S-3 | SS | 24 | 7 | 17 | | |
| | | Light brown fine-medium SAND, trace silt (dry) | 6 | | | | 15 | | | S-4 at 6ft |
| | | Light brown fine-medium SAND, trace silt (dry) | 7 | S-4 | SS | 18 | 17 | 35 | | Auger to 8ft. Easy drilling |
| | | Light brown fine-medium SAND, trace silt (dry) | 8 | | | | 23 | | | S-5 at 8ft |
| | | No Recovery | 9 | S-5 | SS | 4 | 17 | 43 | | |
| | | | 10 | | | | 26 | | | S-6 at 10ft |
| | | | 11 | S-6 | SS | 0 | 31 | 67 | | |
| | | | 12 | | | | 36 | | | Bottom of boring at 7/2/2020 Boring backfilled with auger cuttings |
| | | Bottom of Boring | 13 | | | | 40 | | | |
| | | | 14 | | | | | | | |
| | | | 15 | | | | | | | |
| | | | 16 | | | | | | | |
| | | | 17 | | | | | | | |
| | | | 18 | | | | | | | |
| | | | 19 | | | | | | | |
| | | | 20 | | | | | | | |

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| | | | | | | | |
|---|--|---------------------|--|---|--|-----------------------------------|-------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 140 (NGVD29) | | | |
| Drilling Company SoilTesting, Inc. | | | | Date Started 7/2/20 | | Date Finished 7/2/20 | |
| Drilling Equipment ATV Rig | | | | Completion Depth 6 ft | | Rock Depth 12 ft | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 6 | Undisturbed - |
| Casing Diameter (in) N/A | | | | Casing Depth (ft) N/A | | Water Level (ft.) First 11 | Completion N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Sam DeAngelis | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Taylor Sisti | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | | |
|-----------------|------------|--|-------------|-------------|------|-------------|-----------------------|---|--------------------|---|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | | N-Value (Blows/ft) | |
| | 140.0 | | 0 | | | | | | | |
| | 139.4 | 7" Brown fine-medium SAND, some silt, some roots (moist) [TOPSOIL] | | S-1A | SS | 2 | 2 | | | Started Drilling at 7/2/2020 S-1 at 0ft |
| | | Brown silty fine SAND, trace roots (moist) | 1 | S-1B | SS | 18 | 2 | | | |
| | | Brown fine SAND, some silt, trace roots (moist) | 2 | | | 2 | 3 | | | S-2 at 2ft |
| | | Brown silty fine SAND (moist) | 3 | S-2 | SS | 19 | 3 | | | |
| | | | 4 | | | 3 | 4 | | | Auger to 4ft |
| | | | 5 | S-3 | SS | 18 | 6 | | | S-3 at 4ft |
| | | | 6 | | | 5 | 11 | | | |
| | 134.0 | Brown fine-medium SAND, trace silt (moist) | 6 | | | 6 | 5 | | | S-4 at 6ft |
| | | Brown fine-medium SAND, trace silt (moist) | 7 | S-4 | SS | 16 | 4 | | | |
| | | | 8 | | | 9 | 13 | | | Auger to 8ft |
| | | | 9 | S-5 | SS | 15 | 3 | | | S-5 at 8ft |
| | | | 10 | | | 6 | 4 | | | |
| | | | 11 | S-6 | SS | 17 | 10 | | | S-6 at 10ft |
| | | | 12 | | | 9 | 8 | | | |
| | 128.0 | Bottom of Boring | 12 | | | 9 | 28 | | | Bottom of boring at 7/2/2020 Boring backfilled with auger cuttings. |
| | | | 13 | | | | | | | |
| | | | 14 | | | | | | | |
| | | | 15 | | | | | | | |
| | | | 16 | | | | | | | |
| | | | 17 | | | | | | | |
| | | | 18 | | | | | | | |
| | | | 19 | | | | | | | |
| | | | 20 | | | | | | | |

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| | | | | | | | |
|---|--|---------------------|--|---|--|-----------------------------------|-------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 135 (NGVD29) | | | |
| Drilling Company SoilTesting, Inc. | | | | Date Started 7/2/20 | | Date Finished 7/2/20 | |
| Drilling Equipment Truck Rig | | | | Completion Depth 10 ft | | Rock Depth 10 ft | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 5 | Undisturbed - |
| Casing Diameter (in) N/A | | | | Casing Depth (ft) N/A | | Water Level (ft.) First N/E | Completion N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Mike Kennedy | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Taylor Sisti | | | |
| Sampler Hammer Safety | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|---|-------------|-------------|------|-------------|-----------------------|---|--|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/In | | N-Value (Blows/ft) |
| | 135.0 | | 0 | S-1A | | 4 | 4 | 9 | Started Drilling at 7/2/2020 S-1 at 0ft |
| | 134.6 | 5" Light brown fine-medium SAND, some silt, some roots (moist) [TOPSOIL] Light brown SILT, some fine sand, trace roots (dry) | 1 | S-1B | SS | 16 | 4 | 5 | |
| | 133.0 | Light brown fine-coarse SAND, some silt (dry) | 2 | | | 9 | | | S-2 at 2ft |
| | | Light brown fine-medium SAND, some silt (dry) | 3 | S-2 | SS | 14 | 8 | 17 | Auger to 4ft S-3 at 4ft |
| | | | 4 | | | 11 | | | |
| | | | 5 | S-3 | SS | 15 | 15 | 32 | |
| | | | 6 | | | 17 | | | S-4 at 6ft |
| | 129.0 | Light brown fine-medium SAND, trace silt, trace fine gravel (dry) | 7 | S-4 | SS | 15 | 11 | 25 | Auger to 8ft S-5 at 8ft |
| | | Light brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 8 | | | 9 | | | |
| | | | 9 | S-5 | SS | 16 | 10 | 22 | |
| | | | 10 | | | 12 | | | |
| | 125.0 | Bottom of Boring | 10 | | | 13 | | | Bottom of boring at 7/2/2020 Boring backfilled with auger cuttings. |
| | | | 11 | | | | | | |
| | | | 12 | | | | | | |
| | | | 13 | | | | | | |
| | | | 14 | | | | | | |
| | | | 15 | | | | | | |
| | | | 16 | | | | | | |
| | | | 17 | | | | | | |
| | | | 18 | | | | | | |
| | | | 19 | | | | | | |
| | | | 20 | | | | | | |

\\LANGAN.COM\DATA\BOS\DATA\11510101\PROJECT DATA\DISCIPLINE\GEO\TECHNICAL\LOGS\151010101 ENTERPRISE BORINGS USE.GPJ... 7/22/2020 9:56:13 AM ... Report: Log - LANGAN

| | | | | | | | |
|---|--|---------------------|--|---|--|----------------------------------|-------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 132.5 (NGVD29) | | | |
| Drilling Company SoilTesting, Inc. | | | | Date Started 6/22/20 | | Date Finished 6/22/20 | |
| Drilling Equipment CME Truck-Mounted Drill Rig | | | | Completion Depth 22 ft | | Rock Depth N/E | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 8 | Undisturbed - |
| Casing Diameter (in) N/A | | | | Casing Depth (ft) N/A | | Water Level (ft.) First 8 | Completion N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman John knepple | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Kenneth Idem | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|--|-------------|-------------|------|-------------|-----------------------|---|---|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | | N-Value (Blows/ft) |
| | 132.5 | | 0 | | | | | | |
| | 132.0 | 6" Dark brown fine SAND, trace silt, trace roots (dry) [TOPSOIL] | | S-1A | SS | 3 | 3 | 9 | Started Drilling at 6/22/2020 S-1 at 0ft |
| | | Light brown fine SAND, some silt, trace roots (dry) | 1 | S-1B | SS | 4 | 4 | 9 | |
| | | Light brown silty fine SAND (dry) | 2 | | | 3 | 3 | 9 | S-2 at 2ft |
| | | Light brown fine SAND, some silt (moist) | 3 | S-2 | SS | 2 | 3 | 9 | Auger to 4ft, Easy Augering |
| | | Light brown silty fine SAND (moist) | 4 | | | 4 | 4 | 10 | S-3 at 4ft |
| | | Light brown silty fine SAND (moist) | 5 | S-3 | SS | 5 | 5 | 10 | |
| | | Light brown silty fine SAND (wet) | 6 | | | 6 | 6 | 13 | S-4 at 6ft |
| | | Light brown fine-coarse SAND, trace silt (wet) | 7 | S-4 | SS | 7 | 7 | 13 | Auger to 8ft, Easy Augering |
| | | Light brown fine-coarse SAND, trace silt (wet) | 8 | | | 6 | 6 | 16 | S-5 at 8ft |
| | | Light brown fine-coarse SAND, trace silt (wet) | 9 | S-5 | SS | 10 | 10 | 16 | |
| | | Light brown fine-coarse SAND, trace silt (wet) | 10 | | | 4 | 4 | 17 | S-6 at 10ft |
| | | Light brown fine-coarse SAND, trace silt (wet) | 11 | S-6 | SS | 14 | 6 | 13 | |
| | | Light brown fine-coarse SAND, trace silt (wet) | 12 | | | 7 | 7 | 16 | Auger to 15ft, Easy Augering |
| | | Light brown fine-coarse SAND, trace silt (wet) | 13 | | | 7 | 7 | 16 | |
| | | Light brown fine-coarse SAND, trace silt (wet) | 14 | | | 7 | 7 | 16 | S-7 at 15ft |
| | | Light brown fine-coarse SAND, trace silt (wet) | 15 | S-7 | SS | 16 | 9 | 16 | |
| | | Light brown fine-coarse SAND, trace silt (wet) | 16 | | | 8 | 8 | 16 | Auger to 20ft, Easy Augering |
| | | Light brown fine-coarse SAND, trace silt (wet) | 17 | | | | | | |
| | | Light brown fine-coarse SAND, trace silt (wet) | 18 | | | | | | |
| | | Light brown fine-coarse SAND, trace silt (wet) | 19 | | | | | | |
| | | Light brown fine-coarse SAND, trace silt (wet) | 20 | | | | | | |

| Project | | Project No. | | | | | | |
|---------------------------|------------|---|-------------|-------------|------|-------------|------------------------|---|
| Hudson Logistics Center | | 151010101 | | | | | | |
| Location | | Elevation and Datum | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 132.5 (NGVD29) | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) |
| | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | |
| | 112.5 | Light brown fine-coarse SAND, trace silt, trace fine gravel (wet) | 20 | | | | 3 | S-8 at 20ft |
| | 110.5 | | 21 | S-8 | SS | 15 | 4 | |
| | | Bottom of Boring | 22 | | | | 3 | Bottom of boring at 6/22/2020 Boring backfilled with auger cuttings. |
| | | | 23 | | | | | |
| | | | 24 | | | | | |
| | | | 25 | | | | | |
| | | | 26 | | | | | |
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| | | | | | | | |
|---|--|---------------------|--|---|--|---------------------------------|-------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 130 (NGVD29) | | | |
| Drilling Company SoilTesting, Inc. | | | | Date Started 6/20/20 | | Date Finished 6/20/20 | |
| Drilling Equipment Diedrich D50 | | | | Completion Depth 12 ft | | Rock Depth N/E | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 6 | Undisturbed - |
| Casing Diameter (in) N/A | | | | Casing Depth (ft) N/A | | Water Level (ft.) First 6 | Completion N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | 24 HR. N/A | |
| Sampler 2-inch-diameter split spoon | | | | Drilling Foreman Sam DeAngelis | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | Field Engineer Taylor Sisti | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) |
|-----------------|------------|--|-------------|-------------|------|-------------|-----------------------|--------------------|---|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | N-Value (Blows/ft) | |
| | 130.0 | | 0 | S-1A | | | 2 | | Started Drilling at 6/20/2020 |
| | 129.6 | 5" Brown fine-medium SAND, some silt, some roots (dry) [TOPSOIL] | | | | | 2 | | S-1 at 0ft |
| | | Brown SILT, some fine sand, trace roots (dry) | 1 | S-1B | SS | 11 | 2 | | |
| | | | 2 | | | | 2 | | S-2 at 2ft |
| | 128.0 | Brown silty fine SAND, trace roots (moist) | | S-2 | SS | 18 | 3 | | Auger to 4ft |
| | | | 3 | | | | 3 | | S-3 at 4ft |
| | | Brown silty fine SAND, bottom half mottled (moist) | 4 | | | | 4 | | |
| | | | 5 | S-3 | SS | 9 | 2 | | |
| | | | 6 | | | | 3 | | S-4 at 6ft |
| | | Brown to brown silty fine SAND, upper half mottled (wet) | | S-4 | SS | 18 | 2 | | Auger to 8ft |
| | | | 7 | | | | 4 | | S-5 at 8ft |
| | | Brown to brown silty fine-medium SAND (wet) | 8 | | | | 4 | | |
| | | | 9 | S-5 | SS | 10 | 4 | | |
| | | | 10 | | | | 4 | | S-6 at 10ft |
| | | Brown fine-medium SAND, some silt (wet) | | | | | 6 | | |
| | 118.5 | | 11 | S-6A | SS | 21 | 3 | | |
| | 118.0 | Brown fine-coarse SAND, trace silt (wet) | | S-6B | | | 3 | | |
| | | Bottom of Boring | 12 | | | | 5 | | Bottom of boring at 6/20/2020 |
| | | | 13 | | | | | | Boring backfilled with auger cuttings. |
| | | | 14 | | | | | | |
| | | | 15 | | | | | | |
| | | | 16 | | | | | | |
| | | | 17 | | | | | | |
| | | | 18 | | | | | | |
| | | | 19 | | | | | | |
| | | | 20 | | | | | | |

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| | | | | | | | |
|---|--|---------------------|--|---|--|----------------------------------|-------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 134 (NGVD29) | | | |
| Drilling Company Seaboard Drilling, Inc | | | | Date Started 6/22/20 | | Date Finished 6/22/20 | |
| Drilling Equipment Diedrich D50 | | | | Completion Depth 13 ft | | Rock Depth 13 ft | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 7 | Undisturbed - |
| Casing Diameter (in) N/A | | | | Casing Depth (ft) N/A | | Water Level (ft.) First 10 | Completion N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Jeff Nitsch | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Reid Balkind | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|---|-------------|-------------|------|-------------|-----------------------|---|--|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/In | | N-Value (Blows/ft) |
| | 134.0 | 7" Light grayish brown fine SAND, trace silt, trace roots (dry) [TOPSOIL] | 0 | S-1A | SS | 2 | 2 | 10 | Started Drilling at 6/22/2020 S-1 at 0ft |
| | 133.4 | Light brown silty fine-medium SAND (moist) | 1 | S-1B | SS | 15 | 2 | 10 | |
| | | Light brown silty fine-medium SAND (moist) | 2 | | | | 2 | 10 | S-2 at 2ft |
| | 130.0 | Brown fine-coarse SAND, some f-c gravel, trace silt (moist) | 3 | S-2 | SS | 17 | 2 | 10 | |
| | | | 4 | | | | 3 | 10 | Auger to 4ft. S-3 at 4ft |
| | | Brown fine-coarse SAND, some f-c gravel, trace silt (moist) | 5 | S-3 | SS | 13 | 16 | 25 | |
| | | | 6 | | | | 10 | 10 | S-4 at 6ft |
| | | Brown fine-coarse SAND, some f-c gravel, trace silt (moist) | 7 | S-4 | SS | 9 | 8 | 10 | |
| | | | 8 | | | | 11 | 10 | |
| | | Brown fine-medium SAND, some silt (moist) | 9 | S-5A | SS | 16 | 5 | 10 | Auger to 8ft. S-5 at 8ft |
| | 125.2 | Grayish brown fine-coarse SAND, some fine gravel, trace silt, trace weathered gravel (moist) [TILL] | 10 | S-5B | SS | 16 | 22 | 32 | |
| | | Grayish brown fine-coarse SAND, some fine gravel, trace silt, trace weathered gravel (wet) [TILL] | 11 | S-6 | SS | 14 | 21 | 21 | S-6 at 10ft |
| | | | 12 | | | | 13 | 13 | |
| | | No Recovery | 13 | S-7 | SS | 0 | 25 | 38 | Auger to 13ft. Hard drilling and heavy chatter. |
| | | Inferred Top of Bedrock | 13 | | | | 39 | 38 | |
| | 120.8 | Bottom of Boring | 14 | | | | | 50/3 | S-7 at 13ft Auger and spoon refusal at 13ft. Bottom of boring at 6/22/2020 Boring backfilled with auger cuttings |

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| | | | | | | | |
|--|--|---------------------|-----------------|---|--|---------------------------------|-------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 134.5 (NGVD29) | | | |
| Drilling Company Atlantic Testing Laboratories | | | | Date Started 6/5/20 | | Date Finished 6/5/20 | |
| Drilling Equipment CME75 Track Rig | | | | Completion Depth 16 ft | | Rock Depth N/E | |
| Size and Type of Bit 3-7/8in Tricone Roller Bit | | | | Number of Samples | | Disturbed 7 | Undisturbed - |
| Casing Diameter (in) 4in | | | | Casing Depth (ft) 8 | | Water Level (ft.) First 4 | Completion 4.8 |
| Casing Hammer Automatic | | Weight (lbs) 140 | Drop (in) 30 | Drilling Foreman Brad Perry | | | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Olivia Chasse | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | Drop (in) 30 | | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | | |
|-----------------|------------|--|-------------|-------------|------|-------------|-----------------------|---|--------------------|--|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | | N-Value (Blows/ft) | |
| | 134.5 | | 0 | | | | | | | |
| | 134.2 | 4" Dark brown fine-medium SAND, trace silt, some roots (dry) [TOPSOIL] | | S-1A | SS | 18 | 1 | | | Started Drilling at 6/5/2020 S-1 at 0ft |
| | | | 1 | S-1B | SS | 18 | 2 | | | |
| | | Light brown silty fine-medium SAND (dry) | 2 | | | | 4 | | | S-2 at 2ft |
| | | | 3 | S-2 | SS | 17 | 5 | | | |
| | | Brown silty fine-medium SAND (wet) | 4 | | | | 4 | | | S-3 at 4ft Drive casing to 4.0ft |
| | | | 5 | S-3 | SS | 9 | 6 | | | |
| | | | 6 | | | | 5 | | | |
| | 128.5 | Brown fine-coarse SAND, trace silt, trace gravel (wet) | 6 | | | | 6 | | | S-4 at 6ft |
| | | | 7 | S-4 | SS | 14 | 8 | | | |
| | | Brown fine-coarse SAND, some fine gravel (wet) | 8 | | | | 9 | | | Drive casing to 8.0ft S-5 at 8ft |
| | | | 9 | S-5 | SS | 11 | 5 | | | |
| | | | 10 | | | | 6 | | | |
| | | Brown fine-coarse SAND, some fine gravel (wet) | 10 | | | | 6 | | | S-6 at 10ft |
| | | | 11 | S-6 | SS | 12 | 10 | | | |
| | | | 12 | | | | 10 | | | |
| | | | 13 | | | | 11 | | | |
| | | Brown fine-coarse SAND, some fine gravel (wet) | 14 | | | | 6 | | | Open hole to 14ft, easy drilling S-7 at 14ft |
| | | | 15 | S-7 | SS | 7 | 8 | | | |
| | | | 16 | | | | 9 | | | |
| | | | 17 | | | | 10 | | | |
| | 118.5 | Bottom of Boring | 16 | | | | | | | Bottom of boring at 6/5/2020 Boring backfilled with soil cuttings |
| | | | 17 | | | | | | | |
| | | | 18 | | | | | | | |
| | | | 19 | | | | | | | |
| | | | 20 | | | | | | | |

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|---|--|--------------------------|--|---|--|----------------------------------|------------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 135 (NGVD29) | | | |
| Drilling Company SoilTesting, Inc. | | | | Date Started 6/5/20 | | Date Finished 6/5/20 | |
| Drilling Equipment CME Truck-Mounted Drill Rig | | | | Completion Depth 17 ft | | Rock Depth N/E | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples Disturbed 7 | | Undisturbed - | Core - |
| Casing Diameter (in) N/A | | Casing Depth (ft) N/A | | Water Level (ft.) First ∇ N/E | | Completion ∇ N/A | 24 HR. ∇ N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman John Knepple | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Kenneth Idem | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | | |
|-----------------|------------|--|-------------|-------------|------|-------------|-----------------------|---|--|----------------------------|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/In | | N-Value (Blows/ft) | |
| | 135.0 | 24" Brown fine-medium SAND, trace silt, trace fine gravel, trace roots (dry) [TOPSOIL] | 0 | | | | 2 | | Started Drilling at 6/5/2020 | |
| | 133.0 | Brown fine-medium SAND, trace silt, trace fine gravel (dry) | 1 | S-1 | SS | 17 | 4 | 9 | | S-1 at 0ft |
| | | | 2 | S-2 | SS | 10 | 17 | 40 | | S-2 at 2ft |
| | 127.0 | Brown fine-medium SAND, trace silt, trace fine gravel (dry) | 3 | | | 10 | 23 | | | Auger to 4ft S-3 at 4ft |
| | | | 4 | S-3 | SS | 20 | 28 | 57 | | |
| | | | 5 | | | 20 | 29 | | | |
| | 127.0 | Brown fine-medium SAND, some silt, trace f-m gravel (moist) | 6 | S-4 | SS | 20 | 42 | 91 | | S-4 at 6ft |
| | | | 7 | | | 20 | 46 | | | |
| | | | 8 | S-5 | SS | 6 | 29 | 50/1 | | Auger to 8ft S-5 at 8ft |
| | 127.0 | Brown fine-coarse SAND, some silt (moist) [TILL] | 9 | | | | | | | |
| | | | 10 | S-6 | SS | 9 | 19 | 50/4 | | S-6 at 10ft |
| | | | 11 | | | 9 | 41 | | | |
| | 127.0 | Brown fine-coarse SAND, some silt, some f-c gravel (moist) [TILL] | 12 | | | | | | | |
| | | | 13 | | | | | | | |
| | | | 14 | | | | | | | |
| | 127.0 | Brown fine-coarse SAND, some clay, some silt, some f-c gravel (moist) [TILL] | 15 | S-7 | SS | 15 | 23 | 50 | | S-7 at 15ft |
| | | | 16 | | | 15 | 26 | | | |
| | | | 17 | | | 15 | 24 | | | |
| | 118.0 | Bottom of Boring | 17 | | | | | | Bottom of boring at 6/5/2020 Boring backfilled with auger cuttings. | |
| | | | 18 | | | | | | | |
| | | | 19 | | | | | | | |
| | | | 20 | | | | | | | |

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|---|--|--------------------------|--|---|--|-----------------------------------|------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 157.5 (NGVD29) | | | |
| Drilling Company SoilTesting, Inc. | | | | Date Started 7/2/20 | | Date Finished 7/2/20 | |
| Drilling Equipment Truck Rig | | | | Completion Depth 7 ft | | Rock Depth 7 ft | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 4 | Undisturbed - |
| Casing Diameter (in) N/A | | Casing Depth (ft) N/A | | Water Level (ft.) First N/E | | Completion N/A | 24 HR. N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Sam Deangelis | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Taylor Sisti | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | | |
|-----------------|------------|--|-------------|-------------|------|-------------|-----------------------|---|--------------------|--|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/In | | N-Value (Blows/ft) | |
| | 157.5 | | 0 | | | | | | | |
| | 157.2 | 4" Dark brown fine-medium SAND, trace silt, trace roots (moist)[TOPSOIL] | | S-1A | SS | 8 | 2 | 10 | 19 | Started Drilling at 7/2/2020 S-1 at 0ft |
| | | Light brown fine-medium SAND, trace silt (dry) | 1 | S-1B | SS | 8 | 9 | 8 | | S-2 at 2ft |
| | | Light brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 2 | S-2 | SS | 12 | 7 | 27 | | Auger to 4ft. Easy drilling |
| | | | 3 | | | | 17 | 24 | | |
| | | Light brown fine-coarse SAND, some fine gravel, trace silt (dry) | 4 | S-3 | SS | 14 | 14 | 9 | 41 | S-3 at 4ft |
| | | | 5 | | | | 32 | 28 | | |
| | 151.5 | Light brown fine-coarse SAND, some fine gravel, trace silt (dry) [TILL] | 6 | S-4 | SS | 8 | 16 | 12 | | S-4 at 6ft |
| | 150.3 | Inferred Top of Bedrock | 7 | | | | 50/2 | | 50/2 | Auger refusal at 7ft Bottom of boring at 7/6/2020 Boring backfilled with auger cuttings. |
| | | Bottom of Boring | 8 | | | | | | | |
| | | | 9 | | | | | | | |
| | | | 10 | | | | | | | |
| | | | 11 | | | | | | | |
| | | | 12 | | | | | | | |
| | | | 13 | | | | | | | |
| | | | 14 | | | | | | | |
| | | | 15 | | | | | | | |
| | | | 16 | | | | | | | |
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| | | | 20 | | | | | | | |

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|---|--|---------------------|--|---|--|-----------------------------------|-------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 140.5 (NGVD29) | | | |
| Drilling Company SoilTesting, Inc. | | | | Date Started 7/1/20 | | Date Finished 7/1/20 | |
| Drilling Equipment Truck Rig | | | | Completion Depth 14 ft | | Rock Depth 14 ft | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 7 | Undisturbed - |
| Casing Diameter (in) N/A | | | | Casing Depth (ft) N/A | | Water Level (ft.) First N/A | Completion N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Sam Deangelis | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Jack Berritt | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|---|-------------|-------------|------|-------------|-----------------------|--------------------|---|--|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | N-Value (Blows/ft) | | |
| | 140.5 | | 0 | | | | | | | |
| | 140.2 | 4" Dark brown fine-medium SAND, trace silt, trace roots (moist) [TOPSOIL] | | S-1A | | | 2 | | | Started Drilling at 7/1/2020 S-1 at 0ft |
| | | Light brown fine SAND, trace silt, some roots (dry) | 1 | S-1B | SS | 14 | 2 | | | |
| | | Light brown fine SAND, some silt (dry) | 2 | | | | 3 | | | S-2 at 2ft |
| | | | 3 | S-2 | SS | 16 | 3 | | | Auger to 4 ft. Easy drilling |
| | | | 4 | | | | 8 | | | S-3 at 4ft |
| | 136.5 | Light brown fine-coarse SAND, trace silt (dry) | 4 | | | | 33 | | | |
| | | Light brown fine-coarse SAND, trace silt (dry) | 5 | S-3 | SS | 9 | 11 | | 21 | |
| | | | 6 | | | | 10 | | | S-4 at 6ft |
| | | Light brown fine-coarse SAND, trace silt (dry) | 6 | | | | 10 | | | |
| | | | 7 | S-4 | SS | 12 | 7 | | 13 | Auger to 8ft. Easy drilling |
| | | Light brown fine-medium SAND, trace silt (dry) | 8 | | | | 6 | | | |
| | | | 8 | | | | 11 | | | S-5 at 8ft |
| | | Light brown fine-medium SAND, trace silt (dry) | 9 | S-5 | SS | 10 | 7 | | 13 | |
| | | | 10 | | | | 6 | | | |
| | | Light brown fine-medium SAND, trace silt, trace fine gravel (dry) | 10 | | | | 10 | | | S-6 at 10ft |
| | | | 11 | S-6 | SS | 6 | 10 | | 21 | |
| | | | 11 | | | | 11 | | | |
| | | | 12 | | | | 19 | | | Auger to 15.0ft. Heavy rig chatter |
| | | No Recovery Inferred Top of Bedrock | 13 | | | | | | | |
| | 126.5 | | 14 | S-7 | SS | 0 | 50/0 | | 50/0 | Auger refusal at 14ft S-7 at 14ft Bottom of boring at 7/1/2020 |
| | | Bottom of Boring | 15 | | | | | | | |
| | | | 16 | | | | | | | |
| | | | 17 | | | | | | | |
| | | | 18 | | | | | | | |
| | | | 19 | | | | | | | |
| | | | 20 | | | | | | | |

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| | | | | | | | |
|---|--|--------------------------|--|---|--|----------------------------------|------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 153.5 (NGVD29) | | | |
| Drilling Company SoilTesting, Inc. | | | | Date Started 6/4/20 | | Date Finished 6/4/20 | |
| Drilling Equipment CME Truck-Mounted Drill Rig | | | | Completion Depth 19.5 ft | | Rock Depth 19.5 ft | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 7 | Undisturbed - |
| Casing Diameter (in) N/A | | Casing Depth (ft) N/A | | Water Level (ft.) First N/E | | Completion N/A | 24 HR. N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman John Knepple | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Kenneth Idem | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) |
|-----------------|------------|---|-------------|-------------|------|-------------|----------------------|--------------------|---|
| | | | | Number | Type | Recov. (in) | Penetr. resist. (in) | N-Value (Blows/ft) | |
| | 153.5 | 24" Brown fine-medium SAND, trace silt (dry) [TOPSOIL] | 0 | | | | | | Started Drilling at 6/4/2020 S-1 at 0ft |
| | 151.5 | Brown fine-medium SAND, trace silt (dry) | 1 | S-1 | SS | 16 | 3 | 7 | S-2 at 2ft |
| | | Brown fine-medium SAND, trace silt (dry) | 2 | | | | 6 | | |
| | | Brown fine-medium SAND, trace silt (dry) | 3 | S-2 | SS | 10 | 5 | 10 | Auger to 4ft S-3 at 4ft |
| | | Brown fine-medium SAND, trace silt (moist) | 4 | | | | 5 | | |
| | | Brown fine-medium SAND, trace silt (moist) | 5 | S-3 | SS | 17 | 5 | 8 | S-4 at 6ft |
| | | Brown fine-medium SAND, trace silt, trace fine gravel (moist) | 6 | | | | 6 | | |
| | | Brown fine-medium SAND, trace silt, trace fine gravel (moist) | 7 | S-4 | SS | 7 | 7 | 15 | Auger to 8ft S-5 at 8ft |
| | | Brown fine-medium SAND, some fine gravel, trace silt (moist) | 8 | | | | 8 | | |
| | | Brown fine-medium SAND, trace silt, trace fine gravel (moist) | 9 | S-5 | SS | 13 | 5 | 10 | S-6 at 10ft |
| | | | 10 | | | | 7 | | |
| | | | 11 | S-6 | SS | 13 | 15 | 32 | Auger to 15ft |
| | | | 12 | | | | 15 | | |
| | | | 13 | | | | | | |
| | | | 14 | | | | | | |
| | | Brown fine-medium SAND, trace silt, trace fine gravel (moist) | 15 | S-7 | SS | 13 | 40 | 50/5 | S-7 at 15ft |
| | | | 16 | | | | 54 | | |
| | | | 17 | | | | 50/5 | | |
| | | | 18 | | | | | | |
| | | | 19 | | | | | | Auger Refusal at 19.5ft Bottom of boring at 6/4/2020 Boring backfilled with auger cuttings. |
| | 134.0 | Inferred Top of Bedrock | 20 | | | | | | |
| | | Bottom of Boring | | | | | | | |

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| | | | | | | | |
|---|--|--------------------------|--|---|--|-----------------------------------|------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 151 (NGVD29) | | | |
| Drilling Company SoilTesting, Inc. | | | | Date Started 7/2/20 | | Date Finished 7/2/20 | |
| Drilling Equipment Truck Rig | | | | Completion Depth 19 ft | | Rock Depth 19 ft | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 8 | Undisturbed - |
| Casing Diameter (in) N/A | | Casing Depth (ft) N/A | | Water Level (ft.) First N/E | | Completion N/A | 24 HR. N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Sam Deangelis | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Jack Berritt | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|---|-------------|-------------|------|-------------|-----------------------|--------------------|---|--|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | N-Value (Blows/ft) | | |
| | 151.0 | | 0 | | | | | | | Started Drilling at 7/2/2020 |
| | 150.6 | 5" Light brown fine-medium SAND, trace silt, trace root (moist) [TOPSOIL] | | S-1A | SS | 18 | 3 | 4 | 7 | S-1 at 0ft |
| | | Light brown fine SAND, trace silt, some roots (dry) | 1 | | | | 3 | | | |
| | | Light brown fine SAND, some silt (dry) | 2 | S-1B | SS | | 2 | | | S-2 at 2ft |
| | | | 3 | S-2 | SS | 10 | 1 | 3 | 4 | Auger to 4ft. Easy drilling |
| | 147.0 | Brown fine-coarse SAND, trace silt (dry) | 4 | | | | 7 | | | S-3 at 4ft |
| | | Brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 5 | S-3 | SS | 13 | 2 | 3 | 5 | |
| | | Brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 6 | | | | 6 | | | S-4 at 6ft |
| | | Brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 7 | S-4 | SS | 15 | 7 | 9 | 12 | Auger to 8ft. Light rig chatter |
| | | Brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 8 | | | | 14 | | | S-5 at 8ft |
| | | | 9 | S-5 | SS | 14 | 3 | 5 | 8 | |
| | 141.0 | Brown fine-coarse SAND, some silt, trace fine gravel (dry)[TILL] | 10 | | | | 8 | | 13 | S-6 at 10ft |
| | | | 11 | S-6 | SS | 24 | 60 | 33 | 38 | 71 |
| | | | 12 | | | | 48 | | | Auger to 15.0ft. Moderate rig chatter |
| | | | 13 | | | | | | | |
| | | | 14 | | | | | | | |
| | | Brown fine-coarse SAND, some silt, trace fine gravel (dry) [TILL] | 15 | | | | 29 | | | S-7 at 15ft |
| | | | 16 | S-7 | SS | 22 | 30 | 30 | 32 | 60 |
| | | | 17 | | | | | | | |
| | | No Recovery Inferred Top of Bedrock | 18 | | | | | | | Auger to 20ft. Heavy rig chatter Auger refusal at 19ft S-8 at 19ft |
| | 132.0 | Bottom of Boring | 19 | S-8 | SS | 0 | 50/0 | | 50/0 | Bottom of boring at 7/2/2020 Observation well installed. Refer to well construction log. |
| | | | 20 | | | | | | | |

\\LANGAN.COM\DATA\BOS\DATA\11510101\PROJECT DATA\DISCIPLINE\GEO\TECHNICAL\LOGS\151010101 ENTERPRISE BORINGS USE.GPJ... 7/22/2020 9:56:35 AM ... Report: Log - LANGAN

| | | | | | | | |
|---|--|--------------------------|--|---|--|------------------------------|------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 152.5 (NGVD29) | | | |
| Drilling Company Atlantic Testing Laboratories | | | | Date Started 6/4/20 | | Date Finished 6/4/20 | |
| Drilling Equipment Geoprobe 7822 DT | | | | Completion Depth 17 ft | | Rock Depth N/E | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples 7 | | Disturbed - | Undisturbed - |
| Casing Diameter (in) N/A | | Casing Depth (ft) N/A | | Water Level (ft.) First N/E | | Completion N/A | 24 HR. N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Ben Cray | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Jack Berritt | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) |
|-----------------|------------|---|-------------|-------------|------|-------------|----------------------|--------------------|---|
| | | | | Number | Type | Recov. (in) | Penetr. resist. (in) | N-Value (Blows/ft) | |
| | 152.5 | 24" Light brown fine-medium SAND, some silt, trace fine gravel, trace roots (dry) [TOPSOIL] | 0 | | | | | | Started Drilling at 6/4/2020 |
| | 150.5 | Light brown fine-medium SAND, trace silt, trace fine gravel (dry) | 1 | S-1 | SS | 17 | 1 | 3 | S-1 at 0ft |
| | | | 2 | S-2 | SS | 10 | 4 | 9 | S-2 at 2ft Auger to 4 ft |
| | 135.5 | Light brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 4 | S-3 | SS | 12 | 3 | 10 | S-3 at 4ft |
| | | | 5 | S-4 | SS | 18 | 6 | 13 | S-4 at 6ft Auger to 8 ft |
| | 135.5 | Light brown fine-medium SAND, some silt (dry) | 8 | S-5 | SS | 18 | 9 | 25 | S-5 at 8ft |
| | | | 10 | S-6 | SS | 11 | 30 | 100/5 | S-6 at 10ft |
| | 135.5 | Light brown fine-medium SAND, trace silt (dry) | 11 | | | | | | |
| | | | 12 | | | | | | |
| | 135.5 | Light brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 15 | S-7 | SS | 21 | 16 | 23 | S-7 at 15ft |
| | | | 16 | | | | | | 58 |
| | 17 | Bottom of Boring | | | | | | | Bottom of boring at 6/4/2020 Boring backfilled with auger cuttings. |

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| | | | | | | | |
|---|--|---------------------|--|---|--|-----------------------------------|-------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 141.5 (NGVD29) | | | |
| Drilling Company SoilTesting, Inc. | | | | Date Started 6/9/20 | | Date Finished 6/9/20 | |
| Drilling Equipment CME Truck-Mounted Drill Rig | | | | Completion Depth 15 ft | | Rock Depth N/E | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 7 | Undisturbed - |
| Casing Diameter (in) N/A | | | | Casing Depth (ft) N/A | | Water Level (ft.) First N/E | Completion N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman John Knepple | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Kenneth Idem | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|---|-------------|-------------|------|-------------|----------------------|--------------------|---|--|
| | | | | Number | Type | Recov. (in) | Penetr. resist Bl/ft | N-Value (Blows/ft) | | |
| | 141.5 | | 0 | | | | | | | Started Drilling at 6/9/2020 |
| | 140.8 | 8" Brown fine SAND, trace silt, trace roots [TOPSOIL] (dry) | 1 | S-1 | SS | 18 | 4 | 7 | | S-1 at 0ft |
| | | Brown fine-medium SAND, trace silt, trace f-c gravel (dry) | 2 | | | | 3 | | | S-2 at 2ft |
| | | Brown gravelly fine-medium SAND, some silt, trace fine gravel (dry) | 3 | S-2 | SS | 6 | 16 | 29 | | Auger to 4ft, easy augering. |
| | | Brown fine-medium SAND, some silt, trace f-m gravel (dry) | 4 | | | | 13 | | | S-3 at 4ft |
| | | Brown gravelly fine-coarse SAND, some silt (dry) | 5 | S-3 | SS | 23 | 11 | 24 | | Auger to 8ft, moderate augering, light rig chatter |
| | | Brown fine SAND, some silt, some f-m gravel (dry) | 6 | | | | 13 | | | S-4 at 6ft |
| | | Brown gravelly fine-medium SAND, some silt, trace fine gravel (dry) | 7 | S-4 | SS | 17 | 20 | 64 | | Auger to 15ft, moderate augering, light chatter |
| | | Brown fine SAND, some silt, some f-m gravel (dry) | 8 | | | | 40 | | | S-5 at 8ft |
| | | | 9 | S-5 | SS | 24 | 22 | 93 | | S-6 at 10ft |
| | | | 10 | | | | 29 | | | Auger to 15ft, moderate augering, light chatter |
| | | | 11 | S-6 | SS | 7 | 64 | 100/5 | | S-7 at 15ft |
| | | | 12 | | | | 41 | | | Bottom of boring at 6/9/2020 |
| | | | 13 | | | | | | | Boring backfilled with auger cuttings. |
| | | | 14 | | | | | | | |
| | | | 15 | S-7 | SS | 0 | 50/1 | 50/1 | | |
| | | No Recovery | 16 | | | | | | | |
| | | Bottom of Boring | 17 | | | | | | | |
| | | | 18 | | | | | | | |
| | | | 19 | | | | | | | |
| | | | 20 | | | | | | | |

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| | | | | | | | |
|---|--|--------------------------|--|---|--|-----------------------------------|-----------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 142 (NGVD29) | | | |
| Drilling Company SoilTesting, Inc. | | | | Date Started 6/15/20 | | Date Finished 6/15/20 | |
| Drilling Equipment Diedrich D50 | | | | Completion Depth 17 ft | | Rock Depth N/E | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples 7 | | Disturbed 7 | Undisturbed - |
| Casing Diameter (in) N/A | | Casing Depth (ft) N/A | | Water Level (ft.) First N/E | | Completion N/A | Core 24 HR. N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Sam DeAngelis | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Taylor Sisti, Justin Hall | | | |
| Sampler Hammer Safety | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|---|-------------|-------------|------|-------------|-----------------------|--------------------|---|---|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | N-Value (Blows/ft) | | |
| | 142.0 | | 0 | S-1A | SS | 6 | 4 | | | Started Drilling on 6/15/2020. S-1A at 0ft S-1B at 0.5ft S-2 at 2ft Auger to 4ft S-3 at 4ft S-4 at 6ft Auger to 8ft S-5 at 8ft S-6 at 10ft Auger to 15ft S-7 at 15ft Bottom of boring at 6/15/2020 Boring backfilled with auger cuttings |
| | 141.5 | 6" Light brown fine-coarse SAND, some silt, trace organics, trace roots (dry) [TOPSOIL] | 1 | S-1B | SS | 11 | 4 | 8 | | |
| | | Light brown fine to medium SAND, some silt, trace roots (dry) | 2 | | | | 4 | | | |
| | | Light brown fine SAND, some silt (dry) | 3 | S-2 | SS | 19 | 4 | 8 | | |
| | | | 4 | | | | 5 | | | |
| | | Light brown fine SAND, some silt (dry) | 5 | S-3 | SS | 17 | 4 | 5 | | |
| | | | 6 | | | | 2 | | | |
| | | Light brown fine SAND, some silt (moist) | 7 | S-4 | SS | 16 | 2 | 3 | | |
| | | | 8 | | | | 1 | | | |
| | | Light brown fine SAND, some silt (moist) | 9 | S-5 | SS | 22 | 3 | 7 | | |
| | | | 10 | | | | 4 | | | |
| | | Light brown fine-medium SAND, some silt (moist) | 11 | S-6 | SS | 16 | 4 | 10 | | |
| | | | 12 | | | | 5 | | | |
| | | | 13 | | | | 5 | | | |
| | | | 14 | | | | | | | |
| | | Light brown fine-medium SAND, some silt (moist) | 15 | | | | 10 | | | |
| | | | 16 | S-7 | SS | 20 | 9 | 18 | | |
| | | | 17 | | | | 9 | | | |
| | 125.0 | Bottom of Boring | 17 | | | | | | | |

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|---|--|--------------------------|--|---|--|----------------------------------|------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 137 (NGVD29) | | | |
| Drilling Company SoilTesting, Inc. | | | | Date Started 6/4/20 | | Date Finished 6/4/20 | |
| Drilling Equipment CME Truck-Mounted Drill Rig | | | | Completion Depth 17 ft | | Rock Depth N/E | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples 7 | | Disturbed - | Undisturbed - |
| Casing Diameter (in) N/A | | Casing Depth (ft) N/A | | Water Level (ft.) First N/E | | Completion N/A | 24 HR. N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman John Knepple | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Kenneth Idem | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) |
|-----------------|------------|---|-------------|-------------|------|-------------|-----------------------|--------------------|---|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | N-Value (Blows/ft) | |
| | 137.0 | 24" Light brown fine SAND, trace silt (dry) [TOPSOIL] | 0 | | | | 3 | | Started Drilling at 6/4/2020 |
| | | | 1 | S-1 | SS | 16 | 6 | 12 | S-1 at 0ft |
| | 135.0 | Light brown fine SAND, trace silt (dry) | 2 | | | | 5 | | S-2 at 2ft |
| | | | 3 | S-2 | SS | 18 | 5 | 12 | |
| | | Light brown fine SAND, trace silt (moist) | 4 | | | | 6 | | Auger to 4ft |
| | | | 5 | S-3 | SS | 19 | 2 | 8 | S-3 at 4ft |
| | | Light brown fine SAND, trace silt (moist) | 6 | | | | 4 | | S-4 at 6ft |
| | | | 7 | S-4 | SS | 24 | 4 | 9 | |
| | 129.0 | Light brown fine SAND, some silt (moist) | 8 | | | | 5 | | Auger to 8ft |
| | | | 9 | S-5 | SS | 19 | 4 | 8 | S-5 at 8ft |
| | | Light brown fine SAND, some silt (moist) | 10 | | | | 4 | | S-6 at 10ft |
| | | | 11 | S-6 | SS | 22 | 5 | 12 | |
| | | | 12 | | | | 7 | | Auger to 15ft |
| | | | 13 | | | | 6 | | |
| | | Light brown fine SAND, some silt (moist) | 15 | | | | 6 | | S-7 at 15ft |
| | | | 16 | S-7 | SS | 6 | 8 | 19 | |
| | | | 17 | | | | 11 | | |
| | 120.0 | Bottom of Boring | 17 | | | | 9 | | Bottom of boring at 6/4/2020 Boring backfilled with auger cuttings. |
| | | | 18 | | | | | | |
| | | | 19 | | | | | | |
| | | | 20 | | | | | | |

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|---|--|---------------------|--|---|--|-----------------------------------|-------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 133.5 (NGVD29) | | | |
| Drilling Company Atlantic Testing Laboratories | | | | Date Started 6/3/20 | | Date Finished 6/3/20 | |
| Drilling Equipment Geoprobe 7822 DT | | | | Completion Depth 17 ft | | Rock Depth N/E | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 7 | Undisturbed - |
| Casing Diameter (in) N/A | | | | Casing Depth (ft) N/A | | Water Level (ft.) First N/E | Completion N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Ben Cray | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Jack Berritt | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|---|-------------|-------------|------|-------------|-----------------------|--------------------|---|---|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | N-Value (Blows/ft) | | |
| | 133.5 | | 0 | | | | | | Started Drilling at 6/3/2020 | |
| | | Light brown fine SAND, trace silt (dry) | 1 | S-1 | SS | 18 | 2 | 2 | 2 | S-1 at 0ft |
| | | Light brown fine SAND, trace silt (dry) | 2 | | | | 2 | 3 | | S-2 at 2ft |
| | | Light brown fine SAND, trace silt (dry) | 3 | S-2 | SS | 15 | 3 | 5 | 8 | Augers drill to 4 ft |
| | | Light brown fine SAND, trace silt (dry) | 4 | | | | 4 | | | S-3 at 4ft |
| | | Light brown fine SAND, trace silt (dry) | 5 | S-3 | SS | 19 | 2 | 3 | 7 | S-4 at 6ft |
| | | Light brown fine SAND, trace silt (dry) | 6 | | | | 3 | | | S-4 at 6ft |
| | | Light brown fine SAND, trace silt (dry) | 7 | S-4 | SS | 18 | 4 | 5 | 9 | Auger drill to 8 ft |
| | | Light brown fine SAND, some silt (dry) | 8 | | | | 5 | | | S-5 at 8ft |
| | | Light brown fine SAND, some silt (dry) | 9 | S-5 | SS | 21 | 4 | 6 | 10 | S-5 at 8ft |
| | | Light brown fine SAND, some silt (moist) | 10 | | | | 7 | | | S-6 at 10ft |
| | | Light brown fine SAND, some silt (moist) | 11 | S-6 | SS | 18 | 11 | 9 | 20 | S-6 at 10ft |
| | | Light brown fine SAND, some silt (moist) | 12 | | | | 11 | | | |
| | | Light brown fine SAND, some silt (moist) | 13 | | | | 12 | | | Auger drill to 15 ft, heavy rig chatter |
| | | Light brown fine-coarse SAND, some fine gravel, some silt (moist) | 15 | S-7 | SS | 7 | 7 | 8 | 15 | S-7 at 15ft |
| | | Light brown fine-coarse SAND, some fine gravel, some silt (moist) | 16 | | | | 7 | 7 | | |
| | | Light brown fine-coarse SAND, some fine gravel, some silt (moist) | 17 | | | | 7 | | | Bottom of boring at 6/3/2020 Boring backfilled with soil cuttings. |
| | 116.5 | Bottom of Boring | 17 | | | | | | | |

I:\LANGAN\COMDATA\BOS\DATA\115101010\PROJECT DATA\DISCIPLINE\GEO\TECHNICAL\GINTLOGS\151010101 ENTERPRISE BORINGS USE.GPJ...7/22/2020 9:56:48 AM ... Report: Log - LANGAN

| | | | | | | | |
|---|--|--------------------------|--|---|--|-----------------------------------|-----------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 142.5 (NGVD29) | | | |
| Drilling Company SoilTesting, Inc. | | | | Date Started 6/16/20 | | Date Finished 6/16/20 | |
| Drilling Equipment Diedrich D50 | | | | Completion Depth 17 ft | | Rock Depth N/E | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples 7 | | Disturbed 7 | Undisturbed - |
| Casing Diameter (in) N/A | | Casing Depth (ft) N/A | | Water Level (ft.) First N/E | | Completion N/A | Core 24 HR. N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Sam DeAngelis | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Taylor Sisti, Justin Hall | | | |
| Sampler Hammer Safety | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|--|-------------|-------------|------|-------------|-----------------------|--------------------|---|--|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | N-Value (Blows/ft) | | |
| | 142.5 | | 0 | | | | | | | Started Drilling at 6/16/2020 |
| | 142.2 | 4" Dark brown fine-medium SAND, trace silt, trace fine gravel, trace roots (moist) [TOPSOIL] | 0 | S-1A | | 3 | | | | S-1 at 0ft |
| | | Light brown fine SAND, some silt (dry) | 1 | S-1B | SS | 14 | 4 | 7 | | S-2 at 0.5ft |
| | | Light brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 2 | S-2A | SS | 9 | 5 | | | S-3 at 2ft |
| | | Light brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 3 | S-2B | SS | 9 | 6 | 11 | | S-4 at 3ft |
| | | Light brown fine-coarse SAND, trace silt (dry) | 4 | S-3 | SS | 12 | 8 | 15 | | Auger to 4ft |
| | | Light brown fine-medium SAND, trace silt (moist) | 6 | S-4A | SS | 7 | 8 | | | S-5 at 4ft |
| | 136.0 | Light brown silty fine SAND (moist) | 7 | S-4B | SS | 6 | 8 | 16 | | S-6 at 6ft |
| | | Light brown silty fine SAND, some SILT lenses (moist) | 8 | S-5 | SS | 22 | 7 | 15 | | S-7 at 6.5ft |
| | | Light brown silty fine SAND, some SILT lenses (moist) | 10 | S-6 | SS | 22 | 8 | 11 | | Auger to 8ft |
| | | | 11 | | | 22 | 6 | 14 | | S-8 at 8ft |
| | | | 12 | | | | 8 | | | |
| | | | 13 | | | | | | | Auger to 15ft, easy drilling |
| | | | 14 | | | | | | | |
| | | Light brown silty fine SAND, some SILT lenses (moist) | 15 | S-7 | SS | 17 | 9 | | | S-9 at 10ft |
| | | | 16 | | | | 9 | 18 | | S-10 at 15ft |
| | 125.5 | Bottom of Boring | 17 | | | | 8 | | | Bottom of boring at 6/16/2020 |
| | | | 18 | | | | | | | Boring backfilled with auger cuttings. |
| | | | 19 | | | | | | | |
| | | | 20 | | | | | | | |

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|---|--|---------------------|--|---|--|-----------------------------------|-------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 152 (NGVD29) | | | |
| Drilling Company Seaboard Drilling, Inc | | | | Date Started 6/3/20 | | Date Finished 6/3/20 | |
| Drilling Equipment Diedrich D50 | | | | Completion Depth 16.5 ft | | Rock Depth N/E | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 7 | Undisturbed - |
| Casing Diameter (in) N/A | | | | Casing Depth (ft) N/A | | Water Level (ft.) First N/E | Completion N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Jeff Nitsch | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Taylor Sisti | | | |
| Sampler Hammer Safety | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) |
|-----------------|------------|---|-------------|-------------|------|-------------|-----------------------|--------------------|---|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/In | N-Value (Blows/ft) | |
| | 152.0 | 12" Dark brown fine-medium SAND, some silt, some roots (moist) [TOPSOIL] | 0 | | | | 2 | | Started Drilling at 6/3/2020 S-1 at 0ft |
| | 151.0 | Light brown fine-medium SAND, trace silt, trace f-c gravel, trace roots (moist) | 1 | S-1A | SS | 17 | 2 | 4 | |
| | | Light brown fine-medium SAND, trace silt (moist) | 2 | S-1B | SS | | 2 | | S-2 at 2ft |
| | | Light brown fine-medium SAND, trace silt (moist) | 3 | S-2 | SS | 14 | 2 | 4 | Auger to 4ft S-3 at 4ft |
| | | Light brown fine-medium SAND, trace silt (moist) | 4 | | | | 2 | | |
| | | Light brown fine-medium SAND, trace silt (moist) | 5 | S-3 | SS | 10 | 3 | 8 | S-4 at 6ft |
| | | Light brown fine-medium SAND, trace silt (moist) | 6 | | | | 5 | | |
| | | Light brown fine-medium SAND, trace silt (moist) | 7 | S-4 | SS | 20 | 4 | 11 | Auger to 8ft S-5 at 8ft |
| | | Light brown fine-medium SAND, trace silt (moist) | 8 | | | | 6 | | |
| | | Light brown fine-medium SAND, trace silt (moist) | 9 | S-5 | SS | 18 | 5 | 12 | Auger to 10ft S-6 at 10ft |
| | | Light brown fine-medium SAND, trace silt (moist) | 10 | | | | 7 | | |
| | | Light brown fine-medium SAND, trace silt (moist) | 11 | S-6 | SS | 21 | 5 | 11 | |
| | | Light brown to brown fine-coarse SAND, some f-c gravel, trace silt (moist) | 12 | | | | 6 | | |
| | | | 13 | | | | 7 | | |
| | | | 14 | | | | | | Auger to 15ft, moderate drilling at 13ft |
| | | | 15 | S-7 | SS | 9 | 15 | | S-7 at 15ft |
| | | | 16 | | | | 16 | 48 | |
| | | | 17 | | | | 32 | | Bottom of boring at 6/3/2020 Boring backfilled with auger cuttings. |
| | 135.3 | Bottom of Boring | 17 | | | | 50/2 | | |

\\LANGAN.COM\DATA\BOS\DATA\11510101\PROJECT DATA\DISCIPLINE\GEO\TECHNICAL\GINTLOGS\151010101 ENTERPRISE BORINGS USE.GPJ...7/22/2020 9:56:53 AM ... Report: Log - LANGAN

| | | | | | | | |
|---|--|--------------------------|--|---|--|-----------------------------------|------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 133.5 (NGVD29) | | | |
| Drilling Company SoilTesting, Inc. | | | | Date Started 6/16/20 | | Date Finished 6/16/20 | |
| Drilling Equipment Diedrich D50 | | | | Completion Depth 17 ft | | Rock Depth N/E | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples 7 | | Disturbed 7 | Undisturbed - |
| Casing Diameter (in) N/A | | Casing Depth (ft) N/A | | Water Level (ft.) First 10 | | Completion N/A | 24 HR. N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Sam DeAngelis | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Taylor Sisti, Justin Hall | | | |
| Sampler Hammer Safety | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | N-Value (Blows/ft) 10 20 30 40 | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) |
|-----------------|------------|---|-------------|-------------|------|-------------|-----------------------|-----------------------------------|---|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | | |
| | 133.5 | | 0 | S-1A | SS | 6 | 3 | | Started Drilling on 6/16/2020 |
| | 133.0 | 6" Light brown fine-coarse SAND, some silt, trace organics, trace roots (moist) [TOPSOIL] | 0.5 | S-1B | SS | 11 | 4 | | S-1A at 0ft |
| | | Light brown fine-medium SAND, some silt, trace roots (moist) | 1 | | | | 3 | | S-1B at 0.5ft |
| | | Light brown fine-medium SAND, some silt (dry) | 2 | | | | 3 | | S-2 at 2ft |
| | | | 3 | S-2 | SS | 18 | 3 | | |
| | | | 4 | | | | 4 | | Auger to 4ft |
| | | Light brown fine-medium SAND, some silt (dry) | 4 | | | | 4 | | S-3 at 4ft |
| | | | 5 | S-3 | SS | 16 | 4 | | |
| | | | 6 | | | | 3 | | |
| | | Light brown fine-medium SAND, some silt (dry) | 6 | | | | 7 | | S-4 at 6ft. Auger to 8ft. |
| | | | 7 | S-4 | SS | 19 | 4 | | |
| | | | 8 | | | | 7 | | |
| | | Light brown fine to medium SAND, trace silt (dry) | 8 | | | | 6 | | S-5 at 8ft |
| | | | 9 | S-5 | SS | 19 | 5 | | |
| | | | 10 | | | | 7 | | |
| | | Light brown fine SAND, some silt (wet) | 10 | | | | 7 | | S-6 at 10ft |
| | | | 11 | S-6 | SS | 15 | 9 | | |
| | | | 12 | | | | 8 | | |
| | | | 13 | | | | 9 | | Auger to 15ft, easy drilling |
| | | | 14 | | | | 9 | | |
| | | Light brown fine SAND, some silt (wet) | 15 | | | | 6 | | S-7 at 15ft |
| | | | 16 | S-7 | SS | 17 | 7 | | |
| | | | 17 | | | | 6 | | |
| | | Bottom of Boring | 17 | | | | 7 | | Bottom of boring on 6/16/2020 |
| | | | 18 | | | | | | Boring backfilled with auger cuttings |
| | | | 19 | | | | | | |
| | | | 20 | | | | | | |

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| | | | | | | | |
|---|--|--------------------------|--|---|--|------------------------------|------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 121.5 (NGVD29) | | | |
| Drilling Company Atlantic Testing Laboratories | | | | Date Started 6/9/20 | | Date Finished 6/9/20 | |
| Drilling Equipment Geoprobe 7822 DT | | | | Completion Depth 19 ft | | Rock Depth N/E | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples 8 | | Disturbed - | Undisturbed - |
| Casing Diameter (in) N/A | | Casing Depth (ft) N/A | | Water Level (ft.) First 15 | | Completion N/A | 24 HR. N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Ben Cray | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Jack Berritt | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | | |
|-----------------|------------|---|------------------------|-------------|------|-------------|-----------------------|--------------------|---|--|-------------|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | N-Value (Blows/ft) | | | |
| | 121.5 | Brown fine SAND, trace silt (dry) | 0 | | | | | | | Started Drilling at 6/9/2020 S-1 at 0ft | |
| | 1 | | | S-1 | SS | 12 | 3 | 5 | | | |
| | 2 | Brown fine SAND, trace silt (dry) | | | | | | | | S-2 at 2ft | |
| | 3 | | | S-2 | SS | 14 | 2 | 5 | | Auger to 4 ft | |
| | 4 | Brown fine SAND, trace silt (dry) | | | | | | | | S-3 at 4ft | |
| | 5 | | | S-3 | SS | 15 | 2 | 4 | | | |
| | 6 | Brown fine-medium SAND, trace silt (moist) | | | | | | | | S-4 at 6ft | |
| | 7 | | | S-4 | SS | 18 | 4 | 8 | | Auger to 8 ft | |
| | 8 | Brown fine-coarse SAND, trace silt, trace fine gravel (moist) | | | | | | | | S-5 at 8ft | |
| | 9 | | | S-5 | SS | 18 | 6 | 13 | | | |
| | 10 | Brown fine-coarse SAND, trace silt, trace fine gravel (moist) | | | | | | | | S-6 at 10ft | |
| | 11 | | | S-6 | SS | 24 | 4 | 9 | | | |
| | 12 | | | | | | | | | Auger to 15 ft | |
| | 13 | | | | | | | | | | |
| | 14 | | | | | | | | | | |
| | 106.5 | | | | | | | | | | |
| | | | Brown silty SAND (wet) | 15 | | | | | | | S-7 at 15ft |
| | 16 | | | | S-7 | SS | 17 | 2 | 4 | | |
| | 17 | Brown silty SAND (wet) | | | | | | | | S-8 at 17ft | |
| 18 | | | | S-8 | SS | 20 | 2 | 8 | | | |
| 102.5 | | | | | | | | | | | |
| | | Bottom of Boring | 19 | | | | | | | Bottom of boring at 6/9/2020 Boring backfilled with auger cuttings. | |
| | | | 20 | | | | | | | | |

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|--|--|---------------------|--|---|--|---------------------------------|-------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 145 (NGVD29) | | | |
| Drilling Company Atlantic Testing Laboratories | | | | Date Started 6/3/20 | | Date Finished 6/3/20 | |
| Drilling Equipment CME75 Track Rig | | | | Completion Depth 16 ft | | Rock Depth N/E | |
| Size and Type of Bit 3-7/8in Tricone Roller Bit | | | | Number of Samples | | Disturbed 7 | Undisturbed - |
| Casing Diameter (in) 4in | | | | Casing Depth (ft) 14 | | Water Level (ft.) First 4 | Completion N/A |
| Casing Hammer N/A | | Weight (lbs) 140 | | Drop (in) 30 | | Drilling Foreman Brad Perry | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Olivia Chasse | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|--|-------------|-------------|------|-------------|-----------------------|---|--|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | | N-Value (Blows/ft) |
| | 145.0 | | 0 | S-1A | | 1 | | | Started Drilling at 6/3/2020. S-1 at 0ft |
| | 144.7 | Light brown fine-medium SAND, trace silt, trace fine gravel, some roots (dry)[TOPSOIL] | 1 | S-1B | SS | 12 | 4 | 9 | |
| | | Light brown fine-medium SAND, some fine gravel, trace silt (dry) | 2 | | | 4 | 5 | | S-2 at 2ft |
| | | Brown fine-coarse SAND, some fine gravel, trace silt, trace organics (wet) | 3 | S-2 | SS | 13 | 6 | 12 | |
| | | Brown fine-coarse SAND, some fine gravel, trace silt, trace roots (wet) | 4 | S-3 | SS | 13 | 6 | 17 | |
| | | Brown fine-coarse SAND, some fine gravel, trace silt, trace roots (wet) | 5 | S-3 | SS | 13 | 11 | | Drive casing to 4.0ft. S-3 at 4ft |
| | | Brown fine-coarse SAND, some fine gravel, trace silt, trace roots (wet) | 6 | S-4 | SS | 13 | 10 | 21 | |
| | | Brown fine-coarse SAND, some fine gravel (wet) | 7 | S-4 | SS | 13 | 11 | | S-4 at 6ft |
| | | Brown fine-coarse SAND, some fine gravel (wet) | 8 | S-5 | SS | 8 | 4 | 11 | |
| | | Brown fine-coarse SAND, some fine gravel, trace silt (wet) | 9 | S-5 | SS | 8 | 5 | | Drive casing to 8.0ft. S-5 at 8ft |
| | | Brown fine-coarse SAND, some fine gravel, trace silt (wet) | 10 | S-6 | SS | 8 | 6 | 15 | |
| | | Brown fine-coarse SAND, some fine gravel, trace silt (wet) | 11 | S-6 | SS | 8 | 6 | | S-6 at 10ft |
| | | Brown fine-coarse SAND, some fine gravel, trace silt (wet) | 12 | | | | 7 | | |
| | | Brown fine-coarse SAND, some fine gravel, trace silt (wet) | 13 | | | | 8 | | |
| | | Brown fine-coarse SAND, some fine gravel, trace silt (wet) | 14 | S-7 | SS | 8 | 11 | 28 | |
| | | Brown fine-coarse SAND, some fine gravel, trace silt (wet) | 15 | S-7 | SS | 8 | 12 | | S-7 at 14ft. Drive casing to 14.0ft |
| | | Brown fine-coarse SAND, some fine gravel, trace silt (wet) | 16 | | | | 16 | | Trace slightly weathered rock |
| | | Bottom of Boring | 17 | | | | 13 | | Bottom of boring at 6/3/2020 Boring backfilled with soil cuttings. |
| | | | 18 | | | | | | |
| | | | 19 | | | | | | |
| | | | 20 | | | | | | |

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|---|--|---------------------|--|---|--|-----------------------------------|-------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 155.5 (NGVD29) | | | |
| Drilling Company SoilTesting, Inc. | | | | Date Started 6/16/20 | | Date Finished 6/16/20 | |
| Drilling Equipment Diedrich D50 | | | | Completion Depth 17 ft | | Rock Depth N/E | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 7 | Undisturbed - |
| Casing Diameter (in) N/A | | | | Casing Depth (ft) N/A | | Water Level (ft.) First N/E | Completion N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Sam DeAngelis | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Taylor Sisti, Justin Hall | | | |
| Sampler Hammer Safety | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|---|-------------|-------------|------|-------------|-----------------------|--------------------|---|---------------------------------------|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | N-Value (Blows/ft) | | |
| | 155.5 | | 0 | | | | | | | Started Drilling on 6/16/2020 |
| | 154.7 | 10" Light brown fine-coarse SAND, trace silt, trace fine gravel, trace roots (moist) | 0 | S-1A | SS | 12 | 2 | | | S-1A at 0ft |
| | | Light brown fine-medium SAND, trace silt, trace fine gravel (dry) | 1 | S-1B | SS | 11 | 4 | | | S-1B at 1ft |
| | | Light brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 2 | S-2 | SS | 16 | 6 | | | S-2 at 2ft |
| | | Light brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 3 | S-3 | SS | 10 | 5 | | | Auger to 4ft |
| | | Light brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 4 | S-4 | SS | 14 | 9 | | | S-3 at 4ft |
| | | Light brown fine-medium SAND, trace silt (dry) | 5 | S-5 | SS | 17 | 13 | | | S-4 at 6ft |
| | | Light brown fine-coarse SAND, trace silt (dry) | 6 | S-6 | SS | 18 | 10 | | | S-5 at 8ft |
| | | Light brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 7 | S-7 | SS | 17 | 8 | | | Auger to 8ft, easy drilling |
| | | Light brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 8 | | | | | | | S-6 at 10ft |
| | | Light brown fine-coarse SAND, trace silt, trace fine gravel, silt lenses throughout (moist) | 9 | | | | | | | Auger to 15ft, easy drilling |
| | | | 10 | | | | | | | S-7 at 15ft |
| | | | 11 | | | | | | | |
| | | | 12 | | | | | | | |
| | | | 13 | | | | | | | |
| | | | 14 | | | | | | | |
| | | | 15 | | | | | | | |
| | | | 16 | | | | | | | |
| | | | 17 | | | | | | | Bottom of boring on 6/16/2020 |
| | | | 18 | | | | | | | Boring backfilled with auger cuttings |
| | | | 19 | | | | | | | |
| | | | 20 | | | | | | | |

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| | | | | | | | |
|---|--|---------------------|--|---|--|----------------------------------|-------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 122 (NGVD29) | | | |
| Drilling Company Atlantic Testing Laboratories | | | | Date Started 6/9/20 | | Date Finished 6/9/20 | |
| Drilling Equipment Geoprobe 7822 DT | | | | Completion Depth 19 ft | | Rock Depth N/E | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 8 | Undisturbed - |
| Casing Diameter (in) N/A | | | | Casing Depth (ft) N/A | | Water Level (ft.) First 15 | Completion N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Ben Cray | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Jack Berritt | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|---|-------------|-------------|------|-------------|--------------------------|---|--|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Blows/in | | N-Value (Blows/ft) |
| | 122.0 | Light brown fine SAND, trace silt (dry) | 0 | | | | 1 | | Started Drilling at 6/9/2020 |
| | | | 1 | S-1 | SS | 17 | 2 | 5 | S-1 at 0ft |
| | | Light brown fine SAND, trace silt (dry) | 2 | | | | 3 | | S-2 at 2ft |
| | | | 3 | S-2 | SS | 14 | 2 | 6 | Auger to 4 ft |
| | 118.0 | Light brown SILT, trace fine sand (dry) | 4 | | | | 3 | | S-3 at 4ft |
| | | | 5 | S-3 | SS | 18 | 2 | 4 | |
| | | | 6 | | | | 3 | | S-4 at 6ft |
| | 116.0 | Light brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 7 | S-4 | SS | 20 | 4 | 19 | Auger to 8 ft |
| | | Light brown fine-coarse SAND, trace silt (dry) | 8 | | | | 15 | | S-5 at 8ft |
| | | | 9 | S-5 | SS | 12 | 4 | 10 | |
| | | | 10 | | | | 6 | | S-6 at 10ft |
| | | Light brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 11 | S-6 | SS | 18 | 6 | 14 | |
| | | | 12 | | | | 8 | | Auger to 15 ft |
| | | | 13 | | | | 7 | | |
| | | | 14 | | | | | | |
| | 107.0 | Light brown silty fine SAND (wet) | 15 | S-7 | SS | 18 | 4 | 11 | S-7 at 15ft |
| | | | 16 | | | | 5 | | |
| | | Light brown silty fine SAND (wet) | 17 | S-8 | SS | 24 | 6 | 12 | S-8 at 17ft |
| | | | 18 | | | | 6 | | |
| | 103.0 | Bottom of Boring | 19 | | | | 6 | | Bottom of boring at 6/9/2020 Boring backfilled with auger cuttings. |
| | | | 20 | | | | | | |

\\LANGAN.COM\DATA\BOS\DATA\11510101\PROJECT DATA\DISCIPLINE\GEO\TECHNICAL\GINTLOGS\1151010101 ENTERPRISE BORINGS USE.GPJ... 7/22/2020 9:57:06 AM ... Report: Log - LANGAN

| | | | | | | | |
|---|--|--------------------------|--|---|--|------------------------------|-----------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 157 (NGVD29) | | | |
| Drilling Company Atlantic Testing Laboratories | | | | Date Started 6/9/20 | | Date Finished 6/9/20 | |
| Drilling Equipment Geoprobe 7822 DT | | | | Completion Depth 19 ft | | Rock Depth N/E | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 8 | Undisturbed - |
| Casing Diameter (in) N/A | | Casing Depth (ft) N/A | | Water Level (ft.) First N/E | | Completion N/A | Core 24 HR. N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Ben Cray | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Jack Berritt | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|--|-------------|-------------|------|-------------|-----------------------|--------------------|---|---------------|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | N-Value (Blows/ft) | | |
| | 157.0 | Light brown fine SAND, trace silt (dry) | 0 | | | | 2 | | Started Drilling on 6/9/2020 S-1 at 0ft | |
| | 1 | | | S-1 | SS | 17 | 4 | 2 | 5 | |
| | 2 | Light brown fine SAND, trace silt (dry) | | | | | 3 | | S-2 at 2ft | |
| | 3 | | | S-2 | SS | 13 | 4 | 3 | 7 | Auger to 4 ft |
| | 4 | Light brown fine SAND, trace silt (dry) | | | | | 3 | | S-3 at 4ft | |
| | 5 | | | S-3 | SS | 12 | 3 | 3 | 5 | |
| | 6 | Light brown fine-medium SAND, trace silt (dry) | | | | | 4 | | S-4 at 6ft | |
| | 7 | | | S-4 | SS | 14 | 4 | 4 | 8 | Auger to 8 ft |
| | 8 | Light brown fine SAND, trace silt (dry) | | | | | 3 | | S-5 at 8ft | |
| | 9 | | | S-5 | SS | 14 | 7 | 4 | 11 | |
| | 10 | Light brown fine SAND, trace silt (dry) | | | | | 7 | | S-6 at 10ft | |
| | 11 | | | S-6 | SS | 16 | 8 | 7 | 15 | |
| | 12 | | | | | | 10 | | Auger to 15 ft | |
| | 13 | | | | | | | | | |
| | 14 | | | | | | | | | |
| | 15 | Light brown fine SAND, trace silt (dry) | | | | | 3 | | S-7 at 15ft | |
| | 16 | | | S-7 | SS | 16 | 4 | 3 | 7 | |
| | 17 | Light brown fine SAND, trace silt (dry) | | | | | 4 | | S-8 at 17ft | |
| | 18 | | | S-8 | SS | 17 | 5 | 5 | 10 | |
| 19 | | | | | | 5 | | | | |
| | 138.0 | Bottom of Boring | | | | | | | Bottom of boring on 6/9/2020 Boring backfilled with auger cuttings | |
| | | | 20 | | | | | | | |

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| | | | | | | | |
|---|--|--------------------------|--|---|--|----------------------------------|------------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 122 (NGVD29) | | | |
| Drilling Company SoilTesting, Inc. | | | | Date Started 6/9/20 | | Date Finished 6/9/20 | |
| Drilling Equipment CME Truck-Mounted Drill Rig | | | | Completion Depth 17 ft | | Rock Depth N/E | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples 7 | | Disturbed 7 | Undisturbed - |
| Casing Diameter (in) N/A | | Casing Depth (ft) N/A | | Water Level (ft.) First ∇ 11.5 | | Completion ∇ N/A | 24 HR. ∇ N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman John Knepple | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Kenneth Idem | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|---|-------------|-------------|------|-------------|-----------------------|---|--|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | | N-Value (Blows/ft) |
| | 122.0 | | 0 | | | | | | |
| | 121.7 | 4" Light brown fine SAND, trace silt, trace roots (dry) [TOPSOIL] | 0 | S-1A | SS | 3 | 3 | | Started Drilling at 6/9/2020 S-1 at 0ft |
| | | | 1 | S-1B | SS | 16 | 2 | | |
| | | Light brown fine SAND, trace silt (dry) | 2 | | | | 4 | | S-2 at 2ft |
| | | | 3 | S-2 | SS | 18 | 2 | | |
| | | Light brown fine SAND, trace silt (dry) | 4 | | | | 3 | | Auger to 4ft, easy augering S-3 at 4ft |
| | | | 5 | S-3 | SS | 23 | 2 | | |
| | | Light brown fine-medium SAND, trace silt (dry) | 6 | | | | 4 | | S-4 at 6ft |
| | | | 7 | S-4 | SS | 20 | 6 | 17 | |
| | | Light brown fine-medium SAND, trace silt (moist) | 8 | | | | 11 | | Auger to 8ft, easy augering S-5 at 8ft |
| | | | 9 | S-5 | SS | 24 | 6 | 17 | |
| | | Light brown fine SAND, trace silt (wet) | 10 | | | | 8 | | S-6 at 10ft |
| | | | 11 | S-6 | SS | 16 | 9 | 17 | |
| | | | 12 | | | | 9 | | Auger to 15ft, easy augering |
| | | | 13 | | | | 10 | | |
| | | Light brown fine SAND, trace silt (wet) | 15 | | | | 2 | | S-7 at 15ft |
| | | | 16 | S-7 | SS | 20 | 4 | 9 | |
| | | | 17 | | | | 5 | | |
| | 105.0 | Bottom of Boring | 17 | | | | 4 | | Bottom of boring at 6/9/2020 Boring backfilled with auger cuttings |
| | | | 18 | | | | | | |
| | | | 19 | | | | | | |
| | | | 20 | | | | | | |

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| | | | | | | | |
|---|--|---------------------|--|---|--|-------------------------------------|-------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 139.5 (NGVD29) | | | |
| Drilling Company SoilTesting, Inc. | | | | Date Started 6/18/20 | | Date Finished 6/18/20 | |
| Drilling Equipment DIEDRICH D-50 | | | | Completion Depth 17 ft | | Rock Depth N/E | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 7 | Undisturbed - |
| Casing Diameter (in) N/A | | | | Casing Depth (ft) N/A | | Water Level (ft.) First N/E | Completion N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Michael Kennedy | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Kenneth Idem | | | |
| Sampler Hammer Safety | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|--|-------------|-------------|------|-------------|-----------------------|--------------------|---|--|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | N-Value (Blows/ft) | | |
| | 139.5 | | 0 | | | | | | | |
| | 139.3 | 2" Asphalt | | | | | | | | Started Drilling on 6/18/2020 Asphalt from 0ft to 0.2ft S-1 at 0.5ft |
| | | Light brown fine SAND, some silt (dry) | 1 | S-1 | SS | 10 | 5 | 7 | | |
| | | Light brown fine-coarse SAND, trace silt (dry) | 2 | S-2 | SS | 13 | 10 | 12 | 17 | S-2 at 2ft |
| | | Light brown fine-coarse SAND, trace silt (moist) | 4 | S-3 | SS | 13 | 12 | 11 | 26 | Auger to 4ft, Easy Augering S-3 at 4ft |
| | | Light brown fine-coarse SAND, trace silt (moist) | 6 | S-4 | SS | 16 | 8 | 13 | 24 | S-4 at 6ft |
| | | Light brown fine-coarse SAND, trace silt (moist) | 8 | S-5 | SS | 16 | 11 | 13 | 30 | Auger to 8ft, Easy Augering S-5 at 8ft |
| | | Light brown fine-medium SAND, trace silt (moist) | 10 | S-6 | SS | 14 | 11 | 12 | 21 | S-6 at 10ft |
| | | Light brown fine-medium SAND, trace silt (moist) | 15 | S-7 | SS | 16 | 14 | 14 | 30 | Auger to 15ft, Easy Augering S-7 at 15ft |
| | 122.5 | Bottom of Boring | 17 | | | | | | | Bottom of boring at 6/18/2020 Boring backfilled with auger cuttings |

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| | | | | | | | |
|---|--|---------------------|--|---|--|-----------------------------------|-------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 139 (NGVD29) | | | |
| Drilling Company SoilTesting, Inc. | | | | Date Started 6/18/20 | | Date Finished 6/18/20 | |
| Drilling Equipment DIEDRICH D-50 | | | | Completion Depth 17 ft | | Rock Depth N/E | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 7 | Undisturbed - |
| Casing Diameter (in) N/A | | | | Casing Depth (ft) N/A | | Water Level (ft.) First N/E | Completion N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | 24 HR. N/A | |
| Sampler 2-inch-diameter split spoon | | | | Drilling Foreman Michael Kennedy | | | |
| Sampler Hammer Safety | | | | Weight (lbs) 140 | | Drop (in) 30 | |
| | | | | Field Engineer Kenneth Idem | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|---|-------------|-------------|------|-------------|-----------------------|--------------------|---|--|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | N-Value (Blows/ft) | | |
| | 139.0 | | 0 | | | | | | | |
| | 138.8 | 2" asphalt | | | | | | | | Started Drilling on 6/18/2020 Asphalt from 0ft to 0.2ft S-1 at 0.5ft |
| | | Light brown fine SAND, trace silt (dry) | 1 | S-1 | SS | 13 | 7 | 12 | 24 | |
| | | Light brown fine SAND, trace silt (dry) | 2 | S-2 | SS | 17 | 12 | 17 | | S-2 at 2ft |
| | | Light brown fine SAND, trace silt (dry) | 3 | S-2 | SS | 17 | 12 | 19 | 39 | Auger to 4ft, Easy Augering |
| | | Light brown fine SAND, trace silt (dry) | 4 | S-3 | SS | 17 | 14 | 22 | | S-3 at 4ft |
| | | Light brown fine to medium SAND, trace silt (dry) | 5 | S-3 | SS | 17 | 14 | 15 | 29 | Auger to 6ft, Easy Augering |
| | | Light brown fine to medium SAND, trace silt (dry) | 6 | S-4 | SS | 22 | 17 | 21 | | S-4 at 6ft |
| | | Light brown fine to medium SAND, trace silt (dry) | 7 | S-4 | SS | 22 | 15 | 17 | 32 | Auger to 8ft, Easy Augering |
| | | Light brown fine to medium SAND, trace silt (dry) | 8 | S-5 | SS | 17 | 14 | 20 | | S-5 at 8ft |
| | | Light brown fine SAND, trace silt (dry) | 9 | S-5 | SS | 17 | 18 | 18 | 36 | Auger to 10ft, Easy Augering |
| | | Light brown fine SAND, trace silt (dry) | 10 | S-6 | SS | 24 | 20 | 20 | | S-6 at 10ft |
| | | Light brown fine SAND, some silt (dry) | 11 | S-6 | SS | 24 | 19 | 18 | 37 | Auger to 15ft, Easy Augering |
| | | | 12 | | | | 21 | | | |
| | | | 13 | | | | | | | |
| | | | 14 | | | | | | | |
| | | | 15 | S-7 | SS | 17 | 9 | 10 | 24 | S-7 at 15ft |
| | | | 16 | | | | 14 | | | |
| | | | 17 | | | | 18 | | | |
| | 122.0 | Bottom of Boring | 17 | | | | | | | Bottom of boring on 6/18/2020 Boring backfilled with auger cuttings |
| | | | 18 | | | | | | | |
| | | | 19 | | | | | | | |
| | | | 20 | | | | | | | |

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| | | | | | | | |
|---|--|---------------------|--|---|--|-------------------------------------|-------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 140.5 (NGVD29) | | | |
| Drilling Company SoilTesting, Inc. | | | | Date Started 6/18/20 | | Date Finished 6/18/20 | |
| Drilling Equipment DIEDRICH D-50 | | | | Completion Depth 17 ft | | Rock Depth N/E | |
| Size and Type of Bit 4in Hollow Stem Auger | | | | Number of Samples | | Disturbed 7 | Undisturbed - |
| Casing Diameter (in) N/A | | | | Casing Depth (ft) N/A | | Water Level (ft.) First N/E | Completion N/A |
| Casing Hammer N/A | | Weight (lbs) N/A | | Drop (in) N/A | | Drilling Foreman Michael Kennedy | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Kenneth Idem | | | |
| Sampler Hammer Safety | | Weight (lbs) 140 | | Drop (in) 30 | | | |

| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | |
|-----------------|------------|---|-------------|-------------|------|-------------|-----------------------|--------------------|---|--|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | N-Value (Blows/ft) | | |
| | 140.5 | | 0 | | | | | | | |
| | 140.3 | 2" Asphalt | | | | | | | | Started Drilling on 6/18/2020. Asphalt from 0ft to 0.2ft |
| | | Brown fine-medium SAND, some silt (dry) | 1 | S-1 | SS | 7 | 9 | 8 | 16 | S-1 at 0.5ft |
| | | Brown fine SAND, some silt (dry) | 2 | | | | 8 | | | S-2 at 2ft |
| | | | 3 | S-2 | SS | 11 | 6 | 3 | 5 | |
| | | Brown silty fine SAND (dry) | 4 | | | | 3 | | | Auger to 4ft, Easy Augering |
| | 136.5 | | 5 | S-3 | SS | 15 | 6 | 7 | 14 | S-3 at 4ft |
| | | Brown silty fine SAND (dry) | 6 | | | | 7 | | | S-4 at 6ft |
| | | | 7 | S-4 | SS | 15 | 7 | 11 | 23 | |
| | | Brown fine-coarse SAND, some silt, trace f-m gravel (dry) | 8 | | | | 12 | | | Auger to 8ft, Easy Augering |
| | 132.5 | | 9 | S-5 | SS | 15 | 3 | 7 | 26 | S-5 at 8ft |
| | | Brown fine-coarse SAND, some f-c gravel, trace silt (dry) | 10 | | | | 19 | | | |
| | | | 11 | S-6 | SS | 12 | 7 | 20 | 53 | S-6 at 10ft |
| | | | 12 | | | | 27 | | | |
| | | | 13 | | | | 27 | | | Auger to 15ft, Moderate Augering, Medium Chattering |
| | | | 14 | | | | 33 | | | Inferred Cobble from 13ft to 14.5ft |
| | | Brown fine-coarse SAND, some f-c gravel, trace silt (dry) | 15 | | | | | | | S-7 at 15ft |
| | | | 16 | S-7 | SS | 11 | 27 | 21 | 39 | |
| | | | 17 | | | | 18 | | | |
| | 123.5 | Bottom of Boring | 17 | | | | 17 | | | Bottom of boring at 6/18/2020 |
| | | | 18 | | | | | | | Boring backfilled with auger cuttings |
| | | | 19 | | | | | | | |
| | | | 20 | | | | | | | |

| | | | | | | | |
|---|--|---------------------|--|---|--|------------------------------------|-------------------|
| Project Hudson Logistics Center | | | | Project No. 151010101 | | | |
| Location 59 Steele Road, Hudson NH | | | | Elevation and Datum Elev. + 155.5 (NGVD29) | | | |
| Drilling Company Atlantic Testing Laboratories | | | | Date Started 6/18/20 | | Date Finished 6/18/20 | |
| Drilling Equipment Geoprobe 7822 DT | | | | Completion Depth 41 ft | | Rock Depth N/E | |
| Size and Type of Bit 3-7/8in Drag Bit | | | | Number of Samples | | Disturbed 12 | Undisturbed - |
| Casing Diameter (in) 4 | | | | Casing Depth (ft) 14 | | Water Level (ft.) First 15.2 | Completion N/A |
| Casing Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | Drilling Foreman Scott McGregor | |
| Sampler 2-inch-diameter split spoon | | | | Field Engineer Reid Balkind | | | |
| Sampler Hammer Automatic | | Weight (lbs) 140 | | Drop (in) 30 | | | |

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| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) |
|-----------------|------------|---|-------------|-------------|------|-------------|-----------------------|--------------------|---|
| | | | | Number | Type | Recov. (in) | Penetr. resist. Bl/ft | N-Value (Blows/ft) | |
| | 155.5 | | 0 | S-1A | | | 2 | | Started Drilling on 6/18/2020 |
| | 155.3 | 3" Dark brown fine SAND, trace silt, trace fine gravel, trace roots (dry) [TOPSOIL] | 0 | | | | 2 | | S-1 at 0ft |
| | | Light brown fine-medium SAND, trace silt, trace fine gravel (dry) | 1 | S-1B | SS | 15 | 4 | 5 | |
| | | Light brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 2 | | | | 5 | | S-2 at 2ft |
| | | | 3 | S-2 | SS | 19 | 7 | 15 | |
| | | | 4 | | | | 9 | | S-3 at 4ft |
| | | Brown fine-coarse SAND, some fine gravel, trace silt (dry) | 5 | S-3 | SS | 8 | 4 | 10 | Drive casing to 4ft |
| | | | 6 | | | | 3 | | S-4 at 6ft |
| | | Brown fine-coarse SAND, some fine gravel, trace silt (dry) | 7 | S-4 | SS | 10 | 3 | 7 | |
| | | | 8 | | | | 4 | | S-5 at 8ft |
| | | Brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 9 | S-5 | SS | 12 | 2 | 34 | Drive casing to 8ft |
| | | | 10 | | | | 12 | | S-6 at 10ft |
| | | Brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 11 | S-6 | SS | 12 | 3 | 4 | |
| | | | 12 | | | | 6 | | Drive casing to 14ft |
| | | | 13 | | | | 8 | | |
| | | Brown fine-coarse SAND, trace silt, trace fine gravel (wet) | 14 | | | | 2 | | S-7 at 14ft |
| | | | 15 | S-7 | SS | 13 | 6 | 10 | |
| | | | 16 | | | | 10 | | |
| | | | 17 | | | | 11 | | |
| | | | 18 | | | | | | |
| | | | 19 | S-8 | SS | 12 | 4 | | S-8 at 19ft |
| | | Brown fine-coarse SAND, trace silt, trace fine gravel (wet) | 20 | | | | 7 | | |

| Project | | Project No. | | | | | | | | |
|---------------------------|------------|------------------------|-------------|-------------|------|-------------|------------------------|---|---|--|
| Hudson Logistics Center | | 151010101 | | | | | | | | |
| Location | | Elevation and Datum | | | | | | | | |
| 59 Steele Road, Hudson NH | | Elev. + 155.5 (NGVD29) | | | | | | | | |
| MATERIAL SYMBOL | Elev. (ft) | Sample Description | Depth Scale | Sample Data | | | | Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.) | | |
| | | | | Number | Type | Recov. (in) | Penetr. resist. BU/6in | | N-Value (Blows/ft) | |
| | 135.5 | | 20 | S-8 | SS | 12 | 8 | 15 | | |
| | | | 21 | | | | 10 | | | |
| | | | 22 | | | | | | | |
| | | | 23 | | | | | | | |
| | | | 24 | | S-9A | | 7 | 7 | | |
| | | | 25 | | SS | 14 | 8 | 15 | | |
| | | | 26 | | S-9B | | | 10 | | |
| | | | 27 | | | | | | | |
| | | | 28 | | | | | | | |
| | | | 29 | | | | | | | |
| | | | 30 | | S-10 | SS | 10 | 8 | 21 | |
| | | | 31 | | | | | 9 | | |
| | | 32 | | | | | 12 | | | |
| | | 33 | | | | | 15 | | | |
| | | 34 | | | | | | | | |
| | | 35 | | S-11 | SS | 9 | 7 | 16 | | |
| | | 36 | | | | | 9 | | | |
| | | 37 | | | | | 11 | | | |
| | | 38 | | | | | | | | |
| | | 39 | | | | | | | | |
| | | 40 | | S-12 | SS | 11 | 11 | 45 | | |
| | | 41 | | | | | 15 | | | |
| | | 42 | | | | | 30 | | | |
| | | 43 | | | | | 34 | | | |
| | | 44 | | | | | | | | |
| | | 45 | | | | | | | | |
| | 114.5 | Bottom of Boring | | | | | | | Bottom of boring at 6/18/2020 Boring backfilled with soil cuttings | |

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APPENDIX D TEST PIT LOGS

LOG OF TEST PIT A-B-TP-01

| | | |
|---|-----------------------------------|---------------------------------|
| PROJECT NAME Hudson Logistics Center | PROJECT NUMBER 151010101 | DATE 6/24/2020 11:23:00 AM |
| LOCATION 59 Steele Road, Hudson, NH | ELEVATION Elev. + 131 (NGVD29) | |
| EXCAVATION CONTRACTOR Polster Industries | DEPTH 9 ft | WATER LEVEL - First N/E |
| EQUIPMENT CAT 305E | FOREMAN Wanderley Docarno | WATER LEVEL - Completion N/E |
| | LANGAN PERSONNEL Olivia Chasse | |

\\LANGAN.COM\DATA\BOS\DATA\151010101\PROJECT DATA\DISCIPLINE\GEO\TECHNICAL\LOGS\151010101_ENTERPRISE_TEST_PITS.GPJ ... 7/13/2020 1:51:06 PM ... Report: Log - LANGANTP

| Symbol | ELEV (feet) | DESCRIPTION | Depth Scale | SAMPLE | | REMARKS |
|--------|-------------|--|-------------|--------|------|---|
| | | | | Number | Type | |
| | +131.0 | 6" Brown fine-medium SAND, some roots, trace silt (dry)[TOPSOIL] | 0 | | | Vertical walls maintained. No redox. Roots to 1ft |
| | +130.5 | Light brown fine SAND, trace silt (dry) | 1 | | | |
| | | | 2 | | | |
| | | | 3 | | | |
| | | | 4 | | | |
| | +126.0 | Brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 5 | | | |
| | +125.0 | Light brown fine SAND, some silt (dry) | 6 | | | |
| | +124.0 | Brown fine-coarse SAND, trace silt, trace fine gravel (moist) | 7 | | | |
| | +123.0 | Light brown fine SAND, some silt (moist) | 8 | | | |
| | +122.0 | Bottom of Test Pit at 9ft | 9 | | | |
| | | | 10 | | | Bottom of Test Pit at 9ft, no groundwater encountered. Test pit backfilled with excavated soils in compacted lifts to grade. Surface restored with grass removed prior to excavation. |
| | | | 11 | | | |

LOG OF TEST PIT A-B-TP-02

| | | | |
|---|--|-------------------------------------|---------------------------------|
| PROJECT NAME Hudson Logistics Center | | PROJECT NUMBER 151010101 | DATE 6/23/2020 1:42:00 PM |
| LOCATION 59 Steele Road, Hudson, NH | | ELEVATION Elev. + 133.5 (NGVD29) | |
| EXCAVATION CONTRACTOR Polster Industries | | DEPTH 7.8 ft | WATER LEVEL - First N/E |
| EQUIPMENT CAT 305E | | FOREMAN Pat Polster | WATER LEVEL - Completion N/E |
| | | LANGAN PERSONNEL Olivia Chasse | |

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| Symbol | ELEV (feet) | DESCRIPTION | Depth Scale | SAMPLE | | REMARKS |
|--------|-------------|--|-------------|--------|------|---|
| | | | | Number | Type | |
| | +133.5 | 12" Dark brown fine-medium SAND, some roots, trace silt (dry)[TOPSOIL] | 0 | | | Vertical sidewalls maintained. No redox. |
| | +132.5 | Brown fine-medium SAND, trace silt (dry) | 1 | | | |
| | +131.5 | Light brown fine-medium SAND, some f-c gravel, trace silt (dry) | 2 | | | |
| | | | 3 | | | |
| | | | 4 | | | |
| | | | 5 | | | |
| | | | 6 | | | Roots to 4.5ft |
| | | | 7 | | | |
| | +127.5 | Brown fine-coarse SAND, some f-c gravel, trace silt (dry) | 8 | | | Bottom of Test Pit at 7.8ft, no groundwater encountered. Test pit backfilled with excavated soils in compacted lifts to grade. Surface restored with grass removed prior to excavation. |
| | | | 9 | | | |
| | | | 10 | | | |
| | | | 11 | | | |

LOG OF TEST PIT A-B-TP-03

| | | |
|---|-------------------------------------|-----------------------------------|
| PROJECT NAME Hudson Logistics Center | PROJECT NUMBER 151010101 | DATE 6/23/2020 12:46:00 PM |
| LOCATION 59 Steele Road, Hudson, NH | ELEVATION Elev. + 135.5 (NGVD29) | |
| EXCAVATION CONTRACTOR Polster Industries | DEPTH 8.5 ft | WATER LEVEL - First N/E |
| EQUIPMENT Takeuchi TB260 | FOREMAN Pat Polster | WATER LEVEL - Completion N/E |
| | | LANGAN PERSONNEL Olivia Chasse |

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| Symbol | ELEV (feet) | DESCRIPTION | Depth Scale | SAMPLE | | REMARKS |
|--------|-------------|---|-------------|--------|------|---|
| | | | | Number | Type | |
| | +135.5 | 8" Dark brown fine-medium SAND, some roots, trace silt (dry)[TOPSOIL] | 0 | | | Vertical sidewalls maintained. No redox. Roots to 1.5ft |
| | +134.8 | Light brown fine-medium SAND, trace silt (dry) | 1 | | | |
| | | | 2 | | | |
| | | | 3 | | | |
| | | | 4 | | | |
| | | | 5 | | | |
| | | | 6 | | | |
| | | | 7 | | | |
| | | | 8 | | | |
| | | | 9 | | | |
| | | | 10 | | | |
| | | | 11 | | | Bottom of Test Pit at 8.5ft, no groundwater encountered. Test pit backfilled with excavated soils in compacted lifts to grade. Surface restored with grass removed prior to excavation. |

LOG OF TEST PIT A-B-TP-04

| | | |
|---|-----------------------------------|-----------------------------------|
| PROJECT NAME Hudson Logistics Center | PROJECT NUMBER 151010101 | DATE 6/23/2020 9:46:00 AM |
| LOCATION 59 Steele Road, Hudson, NH | ELEVATION Elev. + 144 (NGVD29) | |
| EXCAVATION CONTRACTOR Polster Industries | DEPTH 8.5 ft | WATER LEVEL - First N/E |
| EQUIPMENT CAT 305E | FOREMAN Wanderley Docarno | WATER LEVEL - Completion N/E |
| | | LANGAN PERSONNEL Olivia Chasse |

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| Symbol | ELEV (feet) | DESCRIPTION | Depth Scale | SAMPLE | | REMARKS |
|--------|-------------|---|-------------|--------|------|---|
| | | | | Number | Type | |
| | +144.0 | 8" Dark brown fine-medium SAND, some roots, trace silt (dry)[TOPSOIL] | 0 | | | Vertical sidewalls mostly maintained. No redox. Roots to 1ft |
| | +143.3 | Light brown fine-coarse SAND, some fine gravel, trace silt (dry) | 1 | | | |
| | | | 2 | | | |
| | | | 3 | | | |
| | | 4 | | | | |
| | | 5 | | | | |
| | | 6 | | | | |
| | | 7 | | | | |
| | | 8 | | | | |
| | | 9 | | | | |
| | | 10 | | | | |
| | | 11 | | | | |
| | +138.5 | Brown fine-medium SAND, trace silt (dry) | | | | Bottom of Test Pit at 8.5ft, no groundwater encountered. Test pit backfilled with excavated soils in compacted lifts to grade. Surface restored with grass removed prior to excavation. |
| | +135.5 | Bottom of Test Pit at 8.5ft | | | | |

LOG OF TEST PIT A-B-TP-05

| | | | |
|---|--|-------------------------------------|---------------------------------|
| PROJECT NAME Hudson Logistics Center | | PROJECT NUMBER 151010101 | DATE 6/25/2020 10:38:00 AM |
| LOCATION 59 Steele Road, Hudson, NH | | ELEVATION Elev. + 135.5 (NGVD29) | |
| EXCAVATION CONTRACTOR Polster Industries | | DEPTH 8 ft | WATER LEVEL - First N/E |
| EQUIPMENT CAT 305E | | FOREMAN Pat Polster | WATER LEVEL - Completion N/E |
| | | LANGAN PERSONNEL Olivia Chasse | |

\\LANGAN.COM\DATA\BOS\DATA\1\151010101\PROJECT DATA\DISCIPLINE\GEOTECHNICAL\GINT\LOGS\151010101_ENTERPRISE_TEST_PITS.GPJ ... 7/13/2020 1:51:14 PM ... Report: Log - LANGANTP

| Symbol | ELEV (feet) | DESCRIPTION | Depth Scale | SAMPLE | | REMARKS |
|--------|-------------|--|-------------|--------|------|---|
| | | | | Number | Type | |
| | +135.5 | 8" Brown fine-medium SAND, some roots, trace silt (dry)[TOPSOIL] | 0 | | | Vertical sidewalls maintained. No redox. Roots to 2.5ft |
| | +134.8 | Brown fine-medium SAND, some silt (dry) | 1 | | | |
| | +133.5 | Light brown fine SAND, trace silt (dry) | 2 | | | |
| | | | 3 | | | |
| | | | 4 | | | |
| | | | 5 | | | |
| | | | 6 | | | |
| | | | 7 | | | |
| | | | 8 | | | |
| | +127.5 | Bottom of Test Pit at 8ft | 8 | | | Bottom of Test Pit at 8ft, no groundwater encountered. Test pit backfilled with excavated soils in compacted lifts to grade. Surface restored with grass removed prior to excavation. |
| | | | 9 | | | |
| | | | 10 | | | |
| | | | 11 | | | |

LOG OF TEST PIT A-B-TP-06

| | | | |
|---|--|-------------------------------------|-----------------------------------|
| PROJECT NAME Hudson Logistics Center | | PROJECT NUMBER 151010101 | DATE 6/24/2020 8:22:00 AM |
| LOCATION 59 Steele Road, Hudson, NH | | ELEVATION Elev. + 130.5 (NGVD29) | |
| EXCAVATION CONTRACTOR Polster Industries | | DEPTH 8 ft | WATER LEVEL - First N/E |
| EQUIPMENT CAT 305E | | FOREMAN Pat Polster | LANGAN PERSONNEL Olivia Chasse |
| | | WATER LEVEL - Completion N/E | |

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| Symbol | ELEV (feet) | DESCRIPTION | Depth Scale | SAMPLE | | REMARKS |
|--------|-------------|---|-------------|--------|------|---|
| | | | | Number | Type | |
| | +130.5 | 6" Dark brown fine-medium SAND, some roots, trace silt (dry)[TOPSOIL] | 0 | | | Vertical walls maintained. No redox. Roots to 1ft |
| | +130.0 | Light brown fine-medium SAND, trace silt (dry) | 1 | | | |
| | +128.0 | Brown fine-coarse SAND, trace silt (dry) | 2 | | | |
| | +128.0 | Brown fine-coarse SAND, trace silt (dry) | 3 | | | |
| | +124.5 | Grayish brown fine-medium SAND, some silt (moist) | 4 | | | Bottom of Test Pit at 8ft, no groundwater encountered. Test pit backfilled with excavated soils in compacted lifts to grade. Surface restored with grass removed prior to excavation. |
| | +124.5 | Grayish brown fine-medium SAND, some silt (moist) | 5 | | | |
| | +124.5 | Grayish brown fine-medium SAND, some silt (moist) | 6 | | | |
| | +124.5 | Grayish brown fine-medium SAND, some silt (moist) | 7 | | | |
| | +122.5 | Bottom of Test Pit at 8ft | 8 | | | |
| | +122.5 | Bottom of Test Pit at 8ft | 9 | | | |
| | +122.5 | Bottom of Test Pit at 8ft | 10 | | | |
| | | | 11 | | | |

LOG OF TEST PIT A-B-TP-07

| | | |
|---|-------------------------------------|----------------------------------|
| PROJECT NAME Hudson Logistics Center | PROJECT NUMBER 151010101 | DATE 6/24/2020 7:23:00 AM |
| LOCATION 59 Steele Road, Hudson, NH | ELEVATION Elev. + 131.5 (NGVD29) | |
| EXCAVATION CONTRACTOR Polster Industries | DEPTH 7.8 ft | WATER LEVEL - First N/E |
| EQUIPMENT CAT 305E | FOREMAN Pat Polster | WATER LEVEL - Completion N/E |
| | | LANGAN PERSONNEL Taylor Sisti |

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| Symbol | ELEV (feet) | DESCRIPTION | Depth Scale | SAMPLE | | REMARKS |
|--------|-------------|---|-------------|--------|------|---|
| | | | | Number | Type | |
| | +131.5 | 8" Light brown fine-medium SAND, some silt, some roots (moist)[TOPSOIL] | 0 | | | Vertical walls maintained. No redox. |
| | +130.8 | Light brown SILT, some fine sand, trace roots (moist) | 1 | | | |
| | +128.6 | Light brown silty fine SAND (moist) | 3 | | | |
| | +126.7 | Light brown fine-coarse SAND, some f-c gravel, trace silt (moist) | 5 | | | |
| | +123.7 | Bottom of Test Pit at 7.8ft | 8 | | | |
| | | | 9 | | | Bottom of Test Pit at 7.8ft, no groundwater encountered. Test pit backfilled with excavated soils in compacted lifts to grade. Surface restored with grass removed prior to excavation. |
| | | | 10 | | | |
| | | | 11 | | | |

LOG OF TEST PIT A-B-TP-08

| | | |
|---|-------------------------------------|----------------------------------|
| PROJECT NAME Hudson Logistics Center | PROJECT NUMBER 151010101 | DATE 6/23/2020 1:44:00 PM |
| LOCATION 59 Steele Road, Hudson, NH | ELEVATION Elev. + 139.5 (NGVD29) | |
| EXCAVATION CONTRACTOR Polster Industries | DEPTH 6.8 ft | WATER LEVEL - First N/E |
| EQUIPMENT Takeuchi TB260 | FOREMAN Pat Polster | WATER LEVEL - Completion N/E |
| | | LANGAN PERSONNEL Taylor Sisti |

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| Symbol | ELEV (feet) | DESCRIPTION | Depth Scale | SAMPLE | | REMARKS |
|--------|-------------|---|-------------|--------|------|---|
| | | | | Number | Type | |
| | +139.5 | 7" Light brown fine-medium SAND, some silt, some roots (dry)[TOPSOIL] | 0 | | | Vertical walls maintained. No redox. |
| | +138.9 | Light brown fine-coarse SAND, some silt, trace roots (moist) | 1 | | | |
| | +137.8 | Light brown fine-coarse SAND, some f-c gravel, trace silt (moist) | 2 | | | |
| | +135.5 | Light brown fine-medium SAND, trace silt, trace fine gravel (moist) | 4 | | | |
| | +132.7 | Bottom of Test Pit at 6.8ft | 7 | | | Bottom of Test Pit at 6.8ft, no groundwater encountered. Test pit backfilled with excavated soils in compacted lifts to grade. Surface restored with grass removed prior to excavation. |
| | | | 8 | | | |
| | | | 9 | | | |
| | | | 10 | | | |
| | | | 11 | | | |

LOG OF TEST PIT A-B-TP-09

| | | | |
|---|--|-----------------------------------|---------------------------------|
| PROJECT NAME Hudson Logistics Center | | PROJECT NUMBER 151010101 | DATE 6/23/2020 9:18:00 AM |
| LOCATION 59 Steele Road, Hudson, NH | | ELEVATION Elev. + 144 (NGVD29) | |
| EXCAVATION CONTRACTOR Polster Industries | | DEPTH 7 ft | WATER LEVEL - First N/E |
| EQUIPMENT Takeuchi TB260 | | FOREMAN Pat Polster | WATER LEVEL - Completion N/E |
| | | LANGAN PERSONNEL Olivia Chasse | |

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| Symbol | ELEV (feet) | DESCRIPTION | Depth Scale | SAMPLE | | REMARKS |
|--------|-------------|---|-------------|--------|------|---|
| | | | | Number | Type | |
| | +144.0 | 8" Dark brown fine-medium SAND, some roots, trace silt (dry)[TOPSOIL] | 0 | | | Vertical sidewalls mostly maintained. No redox. Roots to 1ft |
| | +143.3 | Light brown fine-medium SAND, some fine gravel, trace silt (dry) | 1 | | | |
| | +141.5 | Light brown fine-coarse SAND, some fine gravel, trace silt (moist) | 2 | | | |
| | +141.5 | Light brown fine-coarse SAND, some fine gravel, trace silt (moist) | 3 | | | Bottom of Test Pit at 7ft, no groundwater encountered. Test pit backfilled with excavated soils in compacted lifts to grade. Surface restored with grass removed prior to excavation. |
| | | | 4 | | | |
| | | | 5 | | | |
| | | | 6 | | | |
| | | | 7 | | | |
| | | | 8 | | | |
| | | | 9 | | | |
| | +137.0 | Bottom of Test Pit at 7ft | 10 | | | |
| | | | 11 | | | |

LOG OF TEST PIT A-B-TP-10

| | | | |
|---|--|-------------------------------------|---------------------------------|
| PROJECT NAME Hudson Logistics Center | | PROJECT NUMBER 151010101 | DATE 6/24/2020 9:07:00 AM |
| LOCATION 59 Steele Road, Hudson, NH | | ELEVATION Elev. + 135.5 (NGVD29) | |
| EXCAVATION CONTRACTOR Polster Industries | | DEPTH 8 ft | WATER LEVEL - First N/E |
| EQUIPMENT CAT 305E | | FOREMAN Wanderley Docarno | WATER LEVEL - Completion N/E |
| | | LANGAN PERSONNEL Olivia Chasse | |

| Symbol | ELEV (feet) | DESCRIPTION | Depth Scale | SAMPLE | | REMARKS |
|--------|-------------|---|-------------|--------|------|---|
| | | | | Number | Type | |
| | +135.5 | 8" Brown fine-medium SAND, some roots, trace silt (dry)[TOPSOIL] | 0 | | | Vertical sidewalls maintained. No redox. Roots to 2.5ft |
| | +134.8 | Light brown fine-medium SAND, trace silt, trace roots (dry)[FILL] | 1 | | | |
| | +133.0 | Brown fine-medium SAND, some silt (dry) | 2 | | | |
| | +131.5 | Light brown fine SAND, trace silt (dry) | 3 | | | |
| | +127.5 | Bottom of Test Pit at 8ft | 4 | | | |
| | | | 5 | | | Bottom of Test Pit at 8ft, no groundwater encountered. Test pit backfilled with excavated soils in compacted lifts to grade. Surface restored with grass removed prior to excavation. |
| | | | 6 | | | |
| | | | 7 | | | |
| | | | 8 | | | |
| | | | 9 | | | |
| | | | 10 | | | |
| | | | 11 | | | |

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LOG OF TEST PIT A-B-TP-11

| | | | |
|---|--|-------------------------------------|---------------------------------|
| PROJECT NAME Hudson Logistics Center | | PROJECT NUMBER 151010101 | DATE 6/24/2020 8:43:00 AM |
| LOCATION 59 Steele Road, Hudson, NH | | ELEVATION Elev. + 131.5 (NGVD29) | |
| EXCAVATION CONTRACTOR Polster Industries | | DEPTH 8 ft | WATER LEVEL - First N/E |
| EQUIPMENT Takeuchi TB260 | | FOREMAN Pat Polster | WATER LEVEL - Completion N/E |
| | | LANGAN PERSONNEL Olivia Chasse | |

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| Symbol | ELEV (feet) | DESCRIPTION | Depth Scale | SAMPLE | | REMARKS |
|--------|-------------|---|-------------|--------|------|---|
| | | | | Number | Type | |
| | +131.5 | 5-6" Brown fine-medium SAND, some silt, some roots (dry)[TOPSOIL] | 0 | | | Vertical sidewalls maintained. No redox. |
| | +131.0 | Orangish brown silty fine SAND, trace roots (moist) | 1 | | | |
| | +130.3 | Light brown silty fine SAND (moist) | 2 | | | |
| | +127.5 | Light brown silty fine SAND (moist) | 3 | | | |
| | +127.5 | Light brown fine-medium SAND, some silt, trace f-c gravel, trace cobbles up to 6 inches (moist) | 4 | | | |
| | | | 5 | | | |
| | | | 6 | | | |
| | | | 7 | | | |
| | +123.5 | Bottom of Test Pit at 8ft | 8 | | | Bottom of Test Pit at 8ft, no groundwater encountered. Test pit backfilled with excavated soils in compacted lifts to grade. Surface restored with grass removed prior to excavation. |
| | | | 9 | | | |
| | | | 10 | | | |
| | | | 11 | | | |

LOG OF TEST PIT A-B-TP-12

| | | |
|---|-----------------------------------|-----------------------------------|
| PROJECT NAME Hudson Logistics Center | PROJECT NUMBER 151010101 | DATE 6/24/2020 7:31:00 AM |
| LOCATION 59 Steele Road, Hudson, NH | ELEVATION Elev. + 135 (NGVD29) | |
| EXCAVATION CONTRACTOR Polster Industries | DEPTH 8.5 ft | WATER LEVEL - First N/E |
| EQUIPMENT Takeuchi TB260 | FOREMAN Pat Polster | WATER LEVEL - Completion N/E |
| | | LANGAN PERSONNEL Olivia Chasse |

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| Symbol | ELEV (feet) | DESCRIPTION | Depth Scale | SAMPLE | | REMARKS |
|--------|-------------|---|-----------------------|--------|------|---|
| | | | | Number | Type | |
| | +135.0 | 12" Dark brown fine-medium SAND, trace silt, trace roots (dry)[TOPSOIL] | 0 | | | Vertical walls mostly maintained. No redox. Roots to 1ft |
| | +134.0 | Light brown fine-medium SAND, some silt (dry) | 1 | | | |
| | +130.5 | Brown fine-coarse SAND, trace silt (dry) | 2 3 4 5 6 | | | |
| | +128.0 | Light brown fine SAND, trace silt (moist) | 7 8 | | | |
| | +126.5 | Bottom of Test Pit at 8.5ft | 9 10 11 | | | Bottom of Test Pit at 8.5ft, no groundwater encountered. Test pit backfilled with excavated soils in compacted lifts to grade. Surface restored with grass removed prior to excavation. |

LOG OF TEST PIT A-B-TP-13

| | | | |
|---|--|-------------------------------------|---------------------------------|
| PROJECT NAME Hudson Logistics Center | | PROJECT NUMBER 151010101 | DATE 6/23/2020 2:31:00 PM |
| LOCATION 59 Steele Road, Hudson, NH | | ELEVATION Elev. + 142.5 (NGVD29) | |
| EXCAVATION CONTRACTOR Polster Industries | | DEPTH 7 ft | WATER LEVEL - First N/E |
| EQUIPMENT CAT 305E | | FOREMAN Wanderley Docarno | WATER LEVEL - Completion N/E |
| | | LANGAN PERSONNEL Olivia Chasse | |

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| Symbol | ELEV (feet) | DESCRIPTION | Depth Scale | SAMPLE | | REMARKS |
|--------|-------------|---|-------------|--------|------|---|
| | | | | Number | Type | |
| | +142.5 | 8" Dark brown fine-medium SAND, some roots, trace silt (dry)[TOPSOIL] | 0 | | | Vertical sidewalls maintained. No redox. Roots to 1ft |
| | +141.8 | Light brown fine-medium SAND, trace silt (dry) | 1 | | | |
| | +139.5 | Brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 3 | | | |
| | +135.5 | Bottom of Test Pit at 7ft | 7 | | | Bottom of Test Pit at 7ft, no groundwater encountered. Test pit backfilled with excavated soils in compacted lifts to grade. Surface restored with grass removed prior to excavation. |
| | | | 8 | | | |
| | | | 9 | | | |
| | | | 10 | | | |
| | | | 11 | | | |

LOG OF TEST PIT A-B-TP-14

| | | |
|---|-----------------------------------|-----------------------------------|
| PROJECT NAME Hudson Logistics Center | PROJECT NUMBER 151010101 | DATE 6/23/2020 8:40:00 AM |
| LOCATION 59 Steele Road, Hudson, NH | ELEVATION Elev. + 145 (NGVD29) | |
| EXCAVATION CONTRACTOR Polster Industries | DEPTH 7 ft | WATER LEVEL - First N/E |
| EQUIPMENT CAT 305E | FOREMAN Wanderley Docarno | WATER LEVEL - Completion N/E |
| | | LANGAN PERSONNEL Olivia Chasse |

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| Symbol | ELEV (feet) | DESCRIPTION | Depth Scale | SAMPLE | | REMARKS |
|--------|-------------|---|-------------|--------|------|---|
| | | | | Number | Type | |
| | +145.0 | 6" Dark brown fine-medium SAND, some roots, trace silt (dry)[TOPSOIL] | 0 | | | Vertical walls maintained. No redox. |
| | +144.5 | Light brown fine-coarse SAND, some f-c gravel, trace silt (dry) | 1 | | | Roots to 1ft |
| | | | 2 | | | |
| | | | 3 | | | |
| | | | 4 | | | |
| | | | 5 | | | |
| | | | 6 | | | |
| | | | 7 | | | |
| | +138.0 | Bottom of Test Pit at 7ft | 8 | | | Bottom of Test Pit at 7ft, no groundwater encountered. Test pit backfilled with excavated soils in compacted lifts to grade. Surface restored with grass removed prior to excavation. |
| | | | 9 | | | |
| | | | 10 | | | |
| | | | 11 | | | |

LOG OF TEST PIT A-B-TP-15

| | | | |
|---|--|-----------------------------------|---------------------------------|
| PROJECT NAME Hudson Logistics Center | | PROJECT NUMBER 151010101 | DATE 6/24/2020 9:49:00 AM |
| LOCATION 59 Steele Road, Hudson, NH | | ELEVATION Elev. + 132 (NGVD29) | |
| EXCAVATION CONTRACTOR Polster Industries | | DEPTH 9 ft | WATER LEVEL - First N/E |
| EQUIPMENT CAT 305E | | FOREMAN Wanderley Docarno | WATER LEVEL - Completion N/E |
| | | LANGAN PERSONNEL Olivia Chasse | |

\\LANGAN.COM\DATA\BOS\DATA\1\151010101\PROJECT DATA\DISCIPLINE\GEOTECHNICAL\GINT\LOGS\151010101. ENTERPRISE_TEST_PITS.GPJ ... 7/13/2020 1:51:30 PM ... Report: Log - LANGANTP

| Symbol | ELEV (feet) | DESCRIPTION | Depth Scale | SAMPLE | | REMARKS |
|--------|-------------|---|-------------|--------|------|---|
| | | | | Number | Type | |
| | +132.0 | 8" Brown fine-medium SAND, some roots, trace silt (dry)[TOPSOIL] | 0 | | | Vertical sidewalls maintained. No redox. |
| | +131.3 | | 1 | | | Roots to 1ft. |
| | | Light brown fine-medium SAND, trace silt, trace fine gravel (dry) | 2 | | | |
| | | | 3 | | | |
| | | | 4 | | | |
| | | | 5 | | | |
| | | | 6 | | | |
| | | | 7 | | | |
| | | | 8 | | | |
| | | | 9 | | | |
| | +123.0 | Bottom of Test Pit at 9ft | 9 | | | Bottom of Test Pit at 9ft, no groundwater encountered. Test pit backfilled with excavated soils in compacted lifts to grade. Surface restored with grass removed prior to excavation. |
| | | | 10 | | | |
| | | | 11 | | | |

LOG OF TEST PIT A-B-TP-16

| | | |
|---|-----------------------------------|-----------------------------------|
| PROJECT NAME Hudson Logistics Center | PROJECT NUMBER 151010101 | DATE 6/24/2020 9:26:00 AM |
| LOCATION 59 Steele Road, Hudson, NH | ELEVATION Elev. + 135 (NGVD29) | |
| EXCAVATION CONTRACTOR Polster Industries | DEPTH 8 ft | WATER LEVEL - First N/E |
| EQUIPMENT Takeuchi TB260 | FOREMAN Pat Polster | WATER LEVEL - Completion N/E |
| | | LANGAN PERSONNEL Olivia Chasse |

\\LANGAN.COM\DATA\BOS\DATA\151010101\PROJECT DATA\DISCIPLINE\GEOTECHNICAL\GINT\LOGS\151010101. ENTERPRISE_TEST_PITS.GPJ ... 7/13/2020 1:51:31 PM ... Report: Log - LANGANTP

| Symbol | ELEV (feet) | DESCRIPTION | Depth Scale | SAMPLE | | REMARKS |
|--------|-------------|---|-------------|--------|------|---|
| | | | | Number | Type | |
| | +135.0 | 6" Brown fine-medium SAND, trace silt, trace roots (dry)[TOPSOIL] | 0 | | | Vertical walls maintained. No redox. |
| | +134.5 | | 1 | | | Roots to 1ft |
| | | Light brown fine SAND, some silt (dry) | 2 | | | |
| | | | 3 | | | |
| | | | 4 | | | |
| | | | 5 | | | |
| | | | 6 | | | |
| | | | 7 | | | |
| | +127.0 | Bottom of Test Pit at 8ft | 8 | | | Bottom of Test Pit at 8ft, no groundwater encountered. Test pit backfilled with excavated soils in compacted lifts to grade. Surface restored with grass removed prior to excavation. |
| | | | 9 | | | |
| | | | 10 | | | |
| | | | 11 | | | |

LOG OF TEST PIT A-B-TP-17

| | | |
|---|-------------------------------------|-----------------------------------|
| PROJECT NAME Hudson Logistics Center | PROJECT NUMBER 151010101 | DATE 6/24/2020 7:22:00 AM |
| LOCATION 59 Steele Road, Hudson, NH | ELEVATION Elev. + 136.5 (NGVD29) | |
| EXCAVATION CONTRACTOR Polster Industries | DEPTH 6.7 ft | WATER LEVEL - First N/E |
| EQUIPMENT Takeuchi TB260 | FOREMAN Pat Polster | WATER LEVEL - Completion N/E |
| | | LANGAN PERSONNEL Olivia Chasse |

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| Symbol | ELEV (feet) | DESCRIPTION | Depth Scale | SAMPLE | | REMARKS |
|--------|-------------|---|-------------|--------|------|---|
| | | | | Number | Type | |
| | +136.5 | 8" Dark brown fine-medium SAND, some roots, trace silt (dry)[TOPSOIL] | 0 | | | Vertical walls mostly maintained. No redox. Roots to 1.5ft |
| | +135.8 | Light brown fine-medium SAND, some silt, some roots (dry) | 1 | | | |
| | +134.0 | Brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 2 | | | |
| | +134.0 | Brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 3 | | | |
| | +134.0 | Brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 4 | | | |
| | +134.0 | Brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 5 | | | |
| | +134.0 | Brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 6 | | | |
| | +129.8 | Bottom of Test Pit at 6.7ft | 7 | | | Bottom of Test Pit at 6.7ft, no groundwater encountered. Test pit backfilled with excavated soils in compacted lifts to grade. Surface restored with grass removed prior to excavation. |
| | | | 8 | | | |
| | | | 9 | | | |
| | | | 10 | | | |
| | | | 11 | | | |

LOG OF TEST PIT A-B-TP-18

| | | | |
|---|--|-----------------------------------|---------------------------------|
| PROJECT NAME Hudson Logistics Center | | PROJECT NUMBER 151010101 | DATE 6/23/2020 2:26:00 PM |
| LOCATION 59 Steele Road, Hudson, NH | | ELEVATION Elev. + 142 (NGVD29) | |
| EXCAVATION CONTRACTOR Polster Industries | | DEPTH 7 ft | WATER LEVEL - First N/E |
| EQUIPMENT Takeuchi TB260 | | FOREMAN Pat Polster | WATER LEVEL - Completion N/E |
| | | LANGAN PERSONNEL Olivia Chasse | |

\\LANGAN.COM\DATA\BOS\DATA\151010101\PROJECT DATA\DISCIPLINE\GEO\TECHNICAL\GINT\LOGS\151010101_ENTERPRISE_TEST_PITS.GPJ ... 7/13/2020 1:51:34 PM ... Report: Log - LANGANTP

| Symbol | ELEV (feet) | DESCRIPTION | Depth Scale | SAMPLE | | REMARKS |
|--------|-------------|---|-------------|--------|------|---|
| | | | | Number | Type | |
| | +142.0 | 8" Dark brown fine-medium SAND, some roots, trace silt (dry)[TOPSOIL] | 0 | | | Vertical walls mostly maintained. No redox. Roots to 1ft |
| | +141.3 | Light brown fine-medium SAND, trace silt (dry) | 1 | | | |
| | +137.0 | Light brown fine-coarse SAND, trace silt, trace fine gravel (dry) | 5 | | | |
| | +135.0 | Bottom of Test Pit at 7ft | 7 | | | Bottom of Test Pit at 7ft, no groundwater encountered. Test pit backfilled with excavated soils in compacted lifts to grade. Surface restored with grass removed prior to excavation. |
| | | | 8 | | | |
| | | | 9 | | | |
| | | | 10 | | | |
| | | | 11 | | | |

LOG OF TEST PIT A-B-TP-19

| | | |
|---|-----------------------------------|-----------------------------------|
| PROJECT NAME Hudson Logistics Center | PROJECT NUMBER 151010101 | DATE 6/23/2020 8:15:00 AM |
| LOCATION 59 Steele Road, Hudson, NH | ELEVATION Elev. + 146 (NGVD29) | |
| EXCAVATION CONTRACTOR Polster Industries | DEPTH 6.7 ft | WATER LEVEL - First N/E |
| EQUIPMENT Takeuchi TB260 | FOREMAN Pat Polster | WATER LEVEL - Completion N/E |
| | | LANGAN PERSONNEL Olivia Chasse |

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| Symbol | ELEV (feet) | DESCRIPTION | Depth Scale | SAMPLE | | REMARKS |
|--------|-------------|---|-------------|--------|------|---|
| | | | | Number | Type | |
| | +146.0 | 18" Dark brown fine-medium SAND, some silt, some roots, trace gravel (dry)[TOPSOIL] | 0 | | | Vertical walls maintained. No redox. |
| | | | 1 | | | |
| | +144.5 | Light brown fine-medium SAND, trace silt, trace f-c gravel (dry) | 2 | | | |
| | | | 3 | | | |
| | +142.8 | Brown fine-coarse SAND, trace silt (dry) | 4 | | | Roots to 5.5ft |
| | | | 5 | | | |
| | +141.5 | Light brown fine-medium SAND, trace silt (dry) | 6 | | | Bottom of Test Pit at 6.7ft, no groundwater encountered. Test pit backfilled with excavated soils in compacted lifts to grade. Surface restored with grass removed prior to excavation. |
| | | | 7 | | | |
| | +139.3 | Bottom of Test Pit at 6.7ft | 8 | | | |
| | | | 9 | | | |
| | | | 10 | | | |
| | | | 11 | | | |

LOG OF TEST PIT A-R-TP-02

| | | |
|---|-------------------------------------|-----------------------------------|
| PROJECT NAME Hudson Logistics Center | PROJECT NUMBER 151010101 | DATE 6/25/2020 8:04:00 AM |
| LOCATION 59 Steele Road, Hudson, NH | ELEVATION Elev. + 129.5 (NGVD29) | |
| EXCAVATION CONTRACTOR Polster Industries | DEPTH 8 ft | WATER LEVEL - First N/E |
| EQUIPMENT CAT 305E | FOREMAN Pat Polster | WATER LEVEL - Completion N/E |
| | | LANGAN PERSONNEL Olivia Chasse |

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| Symbol | ELEV (feet) | DESCRIPTION | Depth Scale | SAMPLE | | REMARKS |
|--------|-------------|--|-------------|--------|------|---|
| | | | | Number | Type | |
| | +129.5 | 8" Dark brown fine-medium SAND, trace silt, trace roots (dry)[TOPSOIL] | 0 | | | Vertical sidewalls maintained. No redox. Roots to 1ft |
| | +128.8 | Brown fine-medium SAND, trace silt (dry) | 1 | | | |
| | +128.0 | Grayish brown fine-medium SAND, some silt (moist) | 2 | | | |
| | | | 3 | | | |
| | | | 4 | | | |
| | | | 5 | | | |
| | | | 6 | | | |
| | | | 7 | | | |
| | | | 8 | | | |
| | +121.5 | Bottom of Test Pit at 8ft | 8 | | | Bottom of Test Pit at 8ft, no groundwater encountered. Test pit backfilled with excavated soils in compacted lifts to grade. Surface restored with grass removed prior to excavation. |
| | | | 9 | | | |
| | | | 10 | | | |
| | | | 11 | | | |

LOG OF TEST PIT A-R-TP-04

| | | | |
|---|--|-----------------------------------|---------------------------------|
| PROJECT NAME Hudson Logistics Center | | PROJECT NUMBER 151010101 | DATE 6/8/2020 9:55:00 AM |
| LOCATION 59 Steele Road, Hudson, NH | | ELEVATION Elev. + 140 (NGVD29) | |
| EXCAVATION CONTRACTOR Polster Industries | | DEPTH 8 ft | WATER LEVEL - First N/E |
| EQUIPMENT CAT 305E | | FOREMAN Pat Polster | WATER LEVEL - Completion N/E |
| | | LANGAN PERSONNEL Olivia Chasse | |

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| Symbol | ELEV (feet) | DESCRIPTION | Depth Scale | SAMPLE | | REMARKS |
|--------|-------------|---|-------------|--------|------|---|
| | | | | Number | Type | |
| | +140.0 | 4" Dark brown fine-medium SAND, some roots, trace silt, trace fine gravel (dry)[TOPSOIL] | 0 | | | Vertical sidewalls mostly maintained. No redox. |
| | +139.7 | | 1 | | | |
| | | Light brown fine-medium SAND, some f-c gravel, trace silt (dry) | 2 | | | |
| | | | 3 | | | |
| | | | 4 | | | |
| | | | 5 | | | |
| | | | 6 | | | |
| | | | 7 | | | |
| | +132.0 | Bottom of Test Pit at 8ft | 8 | | | Bottom of Test Pit at 8ft, no groundwater encountered. Test pit backfilled with excavated soils in compacted lifts to grade. Surface restored with grass removed prior to excavation. |
| | | | 9 | | | |
| | | | 10 | | | |
| | | | 11 | | | |

LOG OF TEST PIT A-R-TP-06

| | | |
|---|-----------------------------------|----------------------------------|
| PROJECT NAME Hudson Logistics Center | PROJECT NUMBER 151010101 | DATE 6/7/2020 |
| LOCATION 59 Steele Road, Hudson, NH | ELEVATION Elev. + 131 (NGVD29) | |
| EXCAVATION CONTRACTOR Polster Industries | DEPTH 6.5 ft | WATER LEVEL - First 6 ft |
| EQUIPMENT CAT 305E | FOREMAN Pat Polster | LANGAN PERSONNEL Lee Chrisman |
| | | WATER LEVEL - Completion 6 ft |

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| Symbol | ELEV (feet) | DESCRIPTION | Depth Scale | SAMPLE | | REMARKS |
|--------|-------------|---|-------------|--------|------|---|
| | | | | Number | Type | |
| | +131.0 | 10" Dark brown fine-medium SAND, some roots, some fine gravel, trace silt (moist) [TOPSOIL] | 0 | | | Vertical sidewalls mostly maintained. No redox. Roots to 1.5ft |
| | +130.2 | Orangish brown fine-medium SAND, some silt, trace roots (moist) | 1 | | | |
| | +128.7 | Light brown fine-medium SAND, some silt, trace fine gravel (moist) | 2 | | | |
| | +125.0 | Light brown fine-medium SAND, some silt, trace fine gravel (wet) | 3 | | | Groundwater encountered at 6ft |
| | +124.5 | Bottom of Test Pit at 6.5ft | 4 | | | |
| | | | 5 | | | Bottom of Test Pit at 6.5ft. Test pit backfilled with excavated soils in compacted lifts to grade. Surface restored with grass removed prior to excavation. |
| | | | 6 | | | |
| | | | 7 | | | |
| | | | 8 | | | |
| | | | 9 | | | |
| | | | 10 | | | |
| | | | 11 | | | |

LOG OF TEST PIT A-R-TP-07

| | | | |
|---|--|-------------------------------------|---------------------------------|
| PROJECT NAME Hudson Logistics Center | | PROJECT NUMBER 151010101 | DATE 5/29/2020 |
| LOCATION 59 Steele Road, Hudson, NH | | ELEVATION Elev. + 131.5 (NGVD29) | |
| EXCAVATION CONTRACTOR Polster Industries | | DEPTH 8.5 ft | WATER LEVEL - First N/E |
| EQUIPMENT CAT 305E | | FOREMAN Pat Polster | WATER LEVEL - Completion N/E |
| | | LANGAN PERSONNEL Olivia Chasse | |

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| Symbol | ELEV (feet) | DESCRIPTION | Depth Scale | SAMPLE | | REMARKS |
|--------|-------------|--|-------------|--------|------|---|
| | | | | Number | Type | |
| | +131.5 | 8" Dark brown fine-medium SAND, some roots, some fine gravel, trace silt (dry) [TOPSOIL] | 0 | | | Vertical walls mostly maintained. No redox. |
| | +130.8 | Orangish brown f-m SAND, trace fine gravel, trace silt (dry) | 1 | | | |
| | +129.8 | Light brown fine-medium SAND, some fine gravel, trace silt (dry) | 2 | | | Roots to 1.5ft |
| | | | 3 | | | |
| | | | 4 | | | |
| | | | 5 | | | |
| | | | 6 | | | |
| | | | 7 | | | |
| | | | 8 | | | |
| | | | 9 | | | |
| | +123.0 | Bottom of Test Pit at 8.5ft | 9 | | | Bottom of Test Pit at 8.5ft, no groundwater encountered. Test pit backfilled with excavated soils in compacted lifts to grade. Surface restored with grass removed prior to excavation. |
| | | | 10 | | | |
| | | | 11 | | | |

LOG OF TEST PIT A-S-TP-01

| | | | |
|---|--|-------------------------------------|---------------------------------|
| PROJECT NAME Hudson Logistics Center | | PROJECT NUMBER 151010101 | DATE 6/25/2020 10:56:00 AM |
| LOCATION 59 Steele Road, Hudson, NH | | ELEVATION Elev. + 135.5 (NGVD29) | |
| EXCAVATION CONTRACTOR Polster Industries | | DEPTH 8 ft | WATER LEVEL - First N/E |
| EQUIPMENT Takeuchi TB260 | | FOREMAN Pat Polster | WATER LEVEL - Completion N/E |
| | | LANGAN PERSONNEL Olivia Chasse | |

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| Symbol | ELEV (feet) | DESCRIPTION | Depth Scale | SAMPLE | | REMARKS |
|--------|-------------|--|-------------|--------|------|---|
| | | | | Number | Type | |
| | +135.5 | 8" Brown fine-medium SAND, some roots, trace silt (dry)[TOPSOIL] | 0 | | | Vertical sidewalls maintained. No redox. |
| | +134.8 | Brown fine-medium SAND, trace silt (dry) | 1 | | | |
| | +133.0 | Light brown fine SAND, trace silt (dry) | 3 | | | |
| | +127.5 | Bottom of Test Pit at 8ft | 8 | | | Bottom of Test Pit at 8ft, no groundwater encountered. Test pit backfilled with excavated soils in compacted lifts to grade. Surface restored with grass removed prior to excavation. |
| | | | 9 | | | |
| | | | 10 | | | |
| | | | 11 | | | |

Roots to 3.5ft

G-1 at 7ft. Infiltration test A-IT-01 at 7ft below grade, see log for details.

G-1
GRAB

LOG OF TEST PIT A-S-TP-02

| | | | |
|---|--|-----------------------------------|---------------------------------|
| PROJECT NAME Hudson Logistics Center | | PROJECT NUMBER 151010101 | DATE 6/25/2020 11:45:00 AM |
| LOCATION 59 Steele Road, Hudson, NH | | ELEVATION Elev. + 133 (NGVD29) | |
| EXCAVATION CONTRACTOR Polster Industries | | DEPTH 7 ft | WATER LEVEL - First N/E |
| EQUIPMENT Takeuchi TB260 | | FOREMAN Pat Polster | WATER LEVEL - Completion N/E |
| | | LANGAN PERSONNEL Olivia Chasse | |

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| Symbol | ELEV (feet) | DESCRIPTION | Depth Scale | SAMPLE | | REMARKS |
|--------|-------------|--|-------------|--------|------|---|
| | | | | Number | Type | |
| | +133.0 | 12" Dark brown fine-medium SAND, some roots, trace silt (dry)[TOPSOIL] | 0 | | | Vertical sidewalls maintained. No redox. Roots to 1ft |
| | +132.0 | Brown fine-medium SAND, trace silt (dry) | 1 | | | |
| | +131.5 | Light brown fine SAND, some silt (moist) | 2 | | | |
| | | | 3 | | | |
| | | | 4 | | | |
| | | | 5 | | | |
| | | | 6 | G-1 | GRAB | G-1 at 5ft. Infiltration test A-IT-02 at 5ft below grade, see log for details. |
| | | | 7 | | | |
| | +126.0 | Bottom of Test Pit at 7ft | 8 | | | Bottom of Test Pit at 7ft, no groundwater encountered. Test pit backfilled with excavated soils in compacted lifts to grade. Surface restored with grass removed prior to excavation. |
| | | | 9 | | | |
| | | | 10 | | | |
| | | | 11 | | | |

LOG OF TEST PIT A-S-TP-03

| | | |
|---|-----------------------------------|-----------------------------------|
| PROJECT NAME Hudson Logistics Center | PROJECT NUMBER 151010101 | DATE 6/25/2020 8:17:00 AM |
| LOCATION 59 Steele Road, Hudson, NH | ELEVATION Elev. + 138 (NGVD29) | |
| EXCAVATION CONTRACTOR Polster Industries | DEPTH 9 ft | WATER LEVEL - First N/E |
| EQUIPMENT Takeuchi TB260 | FOREMAN Wanderley Docarno | WATER LEVEL - Completion N/E |
| | | LANGAN PERSONNEL Olivia Chasse |

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| Symbol | ELEV (feet) | DESCRIPTION | Depth Scale | SAMPLE | | REMARKS |
|--------|-------------|--|-------------|--------|------|---|
| | | | | Number | Type | |
| | +138.0 | 8" Brown fine-medium SAND, some roots, trace silt (dry)[TOPSOIL] | 0 | | | Vertical sidewalls maintained. No redox. |
| | +137.3 | Light brown fine-medium SAND, trace silt (dry) | 1 | | | Roots to 1ft |
| | | | 2 | | | |
| | | | 3 | | | |
| | | | 4 | | | |
| | | | 5 | | | |
| | | | 6 | | | |
| | | | 7 | | | |
| | | | 8 | | | |
| | +129.0 | Bottom of Test Pit at 9ft | 9 | | | Bottom of Test Pit at 9ft, no groundwater encountered. Test pit backfilled with excavated soils in compacted lifts to grade. Surface restored with grass removed prior to excavation. |
| | | | 10 | | | |
| | | | 11 | | | |

LOG OF TEST PIT A-S-TP-04

| | | |
|---|-----------------------------------|-----------------------------------|
| PROJECT NAME Hudson Logistics Center | PROJECT NUMBER 151010101 | DATE 6/25/2020 9:23:00 AM |
| LOCATION 59 Steele Road, Hudson, NH | ELEVATION Elev. + 137 (NGVD29) | |
| EXCAVATION CONTRACTOR Polster Industries | DEPTH 7 ft | WATER LEVEL - First N/E |
| EQUIPMENT CAT 305E | FOREMAN Wanderley Docarno | WATER LEVEL - Completion N/E |
| | | LANGAN PERSONNEL Olivia Chasse |

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| Symbol | ELEV (feet) | DESCRIPTION | Depth Scale | SAMPLE | | REMARKS |
|--------|-------------|--|-------------|--------|------|---|
| | | | | Number | Type | |
| | +137.0 | 8" Brown fine-medium SAND, some roots, trace silt (dry)[TOPSOIL] | 0 | | | Vertical sidewalls maintained. No redox. Roots to 4ft |
| | +136.3 | Light brown fine-coarse SAND, some fine gravel, trace silt (dry) | 1 | | | |
| | +135.0 | Light brown fine-medium SAND, some f-c gravel, trace silt, trace cobbles (dry) | 2 | | | |
| | | | 3 | | | |
| | | | 4 | | | |
| | | | 5 | | | |
| | | | 6 | | | |
| | | | 7 | | | |
| | +130.0 | Bottom of Test Pit at 7ft | 7 | | | Bottom of Test Pit at 7ft, no groundwater encountered. Test pit backfilled with excavated soils in compacted lifts to grade. Surface restored with grass removed prior to excavation. |
| | | | 8 | | | |
| | | | 9 | | | |
| | | | 10 | | | |
| | | | 11 | | | |

LOG OF TEST PIT A-S-TP-05

| | | |
|---|-----------------------------------|-----------------------------------|
| PROJECT NAME Hudson Logistics Center | PROJECT NUMBER 151010101 | DATE 6/24/2020 12:21:00 PM |
| LOCATION 59 Steele Road, Hudson, NH | ELEVATION Elev. + 133 (NGVD29) | |
| EXCAVATION CONTRACTOR Polster Industries | DEPTH 7.5 ft | WATER LEVEL - First N/E |
| EQUIPMENT CAT 305E | FOREMAN Wanderley Docarno | WATER LEVEL - Completion N/E |
| | | LANGAN PERSONNEL Olivia Chasse |

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| Symbol | ELEV (feet) | DESCRIPTION | Depth Scale | SAMPLE | | REMARKS |
|--------|-------------|--|-------------|--------|------|---|
| | | | | Number | Type | |
| | +133.0 | 8" Brown fine-medium SAND, some roots, trace silt (dry)[TOPSOIL] | 0 | | | Vertical sidewalls maintained. No redox. |
| | +132.3 | Brown fine-medium SAND, trace silt (dry) | 1 | | | |
| | +130.5 | Light brown fine-coarse SAND, some f-c gravel, trace silt, trace cobbles (dry) | 3 | | | |
| | | | 2 | | | Roots to 2.5ft |
| | | | 4 | | | |
| | | | 5 | | | |
| | | | 6 | | | |
| | | | 7 | | | Moderate excavator resistance at 6ft. Some weathered cobbles encountered. |
| | | | 8 | | | |
| | +125.5 | Bottom of Test Pit at 7.5ft | 8 | | | Bottom of Test Pit at 7.5ft, no groundwater encountered. Test pit backfilled with excavated soils in compacted lifts to grade. Surface restored with grass removed prior to excavation. |
| | | | 9 | | | |
| | | | 10 | | | |
| | | | 11 | | | |

LOG OF TEST PIT A-S-TP-06

| | | | |
|---|--|-----------------------------------|---------------------------------|
| PROJECT NAME Hudson Logistics Center | | PROJECT NUMBER 151010101 | DATE 6/24/2020 12:10:00 PM |
| LOCATION 59 Steele Road, Hudson, NH | | ELEVATION Elev. + 133 (NGVD29) | |
| EXCAVATION CONTRACTOR Polster Industries | | DEPTH 8 ft | WATER LEVEL - First N/E |
| EQUIPMENT Takeuchi TB260 | | FOREMAN Pat Polster | WATER LEVEL - Completion N/E |
| | | LANGAN PERSONNEL Olivia Chasse | |

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| Symbol | ELEV (feet) | DESCRIPTION | Depth Scale | SAMPLE | | REMARKS |
|--------|-------------|--|-------------|--------|------|---|
| | | | | Number | Type | |
| | +133.0 | 6" Brown fine-medium SAND, some roots, trace silt (dry)[TOPSOIL] | 0 | | | Vertical sidewalls maintained. No redox. Roots to 2ft |
| | +132.5 | Brown fine-medium SAND, trace silt (dry) | 1 | | | |
| | +131.0 | Light brown fine SAND, some silt (moist) | 2 | | | |
| | +125.0 | Bottom of Test Pit at 8ft | 8 | | | Bottom of Test Pit at 8ft, no groundwater encountered. Test pit backfilled with excavated soils in compacted lifts to grade. Surface restored with grass removed prior to excavation. |
| | | | 9 | | | |
| | | | 10 | | | |
| | | | 11 | | | |

LOG OF TEST PIT A-S-TP-07

| | | |
|---|-------------------------------------|-----------------------------------|
| PROJECT NAME Hudson Logistics Center | PROJECT NUMBER 151010101 | DATE 6/23/2020 11:48:00 AM |
| LOCATION 59 Steele Road, Hudson, NH | ELEVATION Elev. + 130.5 (NGVD29) | |
| EXCAVATION CONTRACTOR Polster Industries | DEPTH 7.5 ft | WATER LEVEL - First 7.5 ft |
| EQUIPMENT Takeuchi TB260 | FOREMAN Pat Polster | LANGAN PERSONNEL Olivia Chasse |

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| Symbol | ELEV (feet) | DESCRIPTION | Depth Scale | SAMPLE | | REMARKS |
|--------|-------------|---|-------------|--------|------|---|
| | | | | Number | Type | |
| | +130.5 | 8" Dark brown fine-medium SAND, some roots, trace silt (dry)[TOPSOIL] | 0 | | | Vertical walls maintained. No redox. |
| | +129.8 | Light brown fine-medium SAND, trace silt, trace fine gravel (dry) | 1 | | | |
| | +128.5 | Grayish brown fine-medium SAND, some silt, trace fine gravel (moist) | 2 | | | |
| | +125.0 | Brown fine-medium SAND, trace silt (moist) | 6 | | | |
| | +123.0 | Bottom of Test Pit at 7.5ft | 7 | | | Groundwater encountered at 7.5ft. |
| | | | 8 | | | Bottom of Test Pit at 7.5ft. Test pit backfilled with excavated soils in compacted lifts to grade. Surface restored with grass removed prior to excavation. |
| | | | 9 | | | |
| | | | 10 | | | |
| | | | 11 | | | |

LOG OF TEST PIT A-S-TP-08

| | | |
|---|-------------------------------------|-----------------------------------|
| PROJECT NAME Hudson Logistics Center | PROJECT NUMBER 151010101 | DATE 6/23/2020 11:42:00 AM |
| LOCATION 59 Steele Road, Hudson, NH | ELEVATION Elev. + 132.5 (NGVD29) | |
| EXCAVATION CONTRACTOR Polster Industries | DEPTH 7.5 ft | WATER LEVEL - First N/E |
| EQUIPMENT CAT 305E | FOREMAN Wanderley Docarno | WATER LEVEL - Completion N/E |
| | | LANGAN PERSONNEL Olivia Chasse |

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| Symbol | ELEV (feet) | DESCRIPTION | Depth Scale | SAMPLE | | REMARKS |
|--------|-------------|--|-------------|--------|------|---|
| | | | | Number | Type | |
| | +132.5 | 8" Dark brown fine-medium SAND, some roots, trace silt (dry)[TOPSOIL] | 0 | | | Vertical sidewalls maintained. No redox. |
| | +131.8 | Light brown fine-medium SAND, trace silt (dry) | 1 | | | |
| | +130.0 | Grayish brown fine-medium SAND, some silt, trace fine gravel (moist)[TILL] | 2 | | | |
| | +130.0 | Grayish brown fine-medium SAND, some silt, trace fine gravel (moist)[TILL] | 3 | | | |
| | +130.0 | Grayish brown fine-medium SAND, some silt, trace fine gravel (moist)[TILL] | 4 | | | Roots to 4ft |
| | +130.0 | Grayish brown fine-medium SAND, some silt, trace fine gravel (moist)[TILL] | 5 | | | |
| | +130.0 | Grayish brown fine-medium SAND, some silt, trace fine gravel (moist)[TILL] | 6 | | | |
| | +130.0 | Grayish brown fine-medium SAND, some silt, trace fine gravel (moist)[TILL] | 7 | | | |
| | +125.0 | Bottom of Test Pit at 7.5ft | 8 | | | Bottom of Test Pit at 7.5ft, no groundwater encountered. Test pit backfilled with excavated soils in compacted lifts to grade. Surface restored with grass removed prior to excavation. |
| | +125.0 | Bottom of Test Pit at 7.5ft | 9 | | | |
| | +125.0 | Bottom of Test Pit at 7.5ft | 10 | | | |
| | +125.0 | Bottom of Test Pit at 7.5ft | 11 | | | |

LOG OF TEST PIT A-S-TP-09

| | | | |
|---|--|-------------------------------------|---------------------------------|
| PROJECT NAME Hudson Logistics Center | | PROJECT NUMBER 151010101 | DATE 6/23/2020 10:55:00 AM |
| LOCATION 59 Steele Road, Hudson, NH | | ELEVATION Elev. + 132.5 (NGVD29) | |
| EXCAVATION CONTRACTOR Polster Industries | | DEPTH 7 ft | WATER LEVEL - First N/E |
| EQUIPMENT Takeuchi TB260 | | FOREMAN Pat Polster | WATER LEVEL - Completion N/E |
| | | LANGAN PERSONNEL Olivia Chasse | |

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| Symbol | ELEV (feet) | DESCRIPTION | Depth Scale | SAMPLE | | REMARKS |
|--------|-------------|---|-------------|--------|------|--|
| | | | | Number | Type | |
| | +132.5 | 6" Dark brown fine-medium SAND, some roots, trace silt (dry)[TOPSOIL] | 0 | | | Vertical walls maintained. No redox. |
| | +132.0 | Light brown fine-medium SAND, trace silt (dry) | 1 | | | Roots to 1ft |
| | +130.5 | Grayish brown fine-medium SAND, some silt, trace fine gravel (moist) | 2 | G-1 | GRAB | G-1 at 2ft. Infiltration test A-IT-09 at 2ft below grade, see log for details. |
| | | | 3 | | | |
| | | | 4 | | | |
| | | | 5 | | | |
| | | | 6 | | | |
| | | | 7 | | | |
| | +125.5 | Bottom of Test Pit at 7ft | 7 | | | Bottom of Test Pit at 7ft, groundwater encountered at bottom of test pit. Test pit backfilled with excavated soils in compacted lifts to grade. Surface restored with grass removed prior to excavation. |
| | | | 8 | | | |
| | | | 9 | | | |
| | | | 10 | | | |
| | | | 11 | | | |

LOG OF TEST PIT A-S-TP-10

| | | | |
|---|--|-----------------------------------|-----------------------------------|
| PROJECT NAME Hudson Logistics Center | | PROJECT NUMBER 151010101 | DATE 6/4/2020 2:42:00 PM |
| LOCATION 59 Steele Road, Hudson, NH | | ELEVATION Elev. + 132 (NGVD29) | |
| EXCAVATION CONTRACTOR Polster Industries | | DEPTH 8 ft | WATER LEVEL - First 5 ft |
| EQUIPMENT CAT 305E | | FOREMAN Pat Polster | LANGAN PERSONNEL Olivia Chasse |
| | | WATER LEVEL - Completion 5 ft | |

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| Symbol | ELEV (feet) | DESCRIPTION | Depth Scale | SAMPLE | | REMARKS | |
|--------|-------------|---|-------------|--------|------|--|---|
| | | | | Number | Type | | |
| | +132.0 | 4" Dark brown fine-medium SAND, some roots, trace silt (dry)[TOPSOIL] | 0 | | | Vertical walls maintained. No roots. No redox. | |
| | +131.7 | | 1 | | | | |
| | | Brown to grayish brown fine-medium SAND, some silt (dry) | 2 | | | | |
| | | | 3 | | | | |
| | | | 4 | | | | |
| | +127.0 | Brown to grayish brown fine-medium SAND, some silt (wet) | 5 | | | | Groundwater seepage at 5ft |
| | | | 6 | | | | |
| | | | 7 | | | | |
| | | | 8 | | | | |
| | | | 9 | | | | |
| | +124.0 | Bottom of Test Pit at 8ft | 10 | | | | Bottom of Test Pit at 8ft. Test pit backfilled with excavated soils in compacted lifts to grade. Surface restored with grass removed prior to excavation. |
| | | 11 | | | | | |

LOG OF TEST PIT A-S-TP-11

| | | | | | |
|---|--|-------------------------------------|-----------------------------|------------------------------------|--|
| PROJECT NAME Hudson Logistics Center | | PROJECT NUMBER 151010101 | | DATE 6/4/2020 1:12:00 PM | |
| LOCATION 59 Steele Road, Hudson, NH | | ELEVATION Elev. + 132.5 (NGVD29) | | | |
| EXCAVATION CONTRACTOR Polster Industries | | DEPTH 7 ft | WATER LEVEL - First 5 ft | WATER LEVEL - Completion 6.5 ft | |
| EQUIPMENT CAT 305E | | FOREMAN Pat Polster | | LANGAN PERSONNEL Jack Berritt | |

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| Symbol | ELEV (feet) | DESCRIPTION | Depth Scale | SAMPLE | | REMARKS |
|--------|-------------|--|-------------|--------|------|---|
| | | | | Number | Type | |
| | +132.5 | 6" Brown fine-coarse SAND, trace silt, trace roots (dry) [TOPSOIL] | 0 | | | Vertical sidewalls maintained. Slight seepage from wall at 5ft Heavy groundwater seepage at 6.5 ft |
| | +132.0 | Mottled brown fine SAND, some silt (dry) | 1 | | | |
| | | | 2 | | | |
| | | | 3 | | | |
| | +128.5 | Mottled brown fine SAND, trace silt (dry) | 4 | | | |
| | +127.5 | Mottled brown fine SAND, trace silt (wet) | 5 | | | |
| | | | 6 | | | |
| | +125.5 | Bottom of Test Pit at 7ft | 7 | | | Bottom of Test Pit at 7ft. Test pit backfilled with excavated soils in compacted lifts to grade. Surface restored with grass removed prior to excavation. |
| | | | 8 | | | |
| | | | 9 | | | |
| | | | 10 | | | |
| | | | 11 | | | |

LOG OF TEST PIT A-S-TP-12

| | | | |
|---|--|-----------------------------------|---------------------------------|
| PROJECT NAME Hudson Logistics Center | | PROJECT NUMBER 151010101 | DATE 6/24/2020 11:13:00 AM |
| LOCATION 59 Steele Road, Hudson, NH | | ELEVATION Elev. + 130 (NGVD29) | |
| EXCAVATION CONTRACTOR Polster Industries | | DEPTH 8 ft | WATER LEVEL - First N/E |
| EQUIPMENT Takeuchi TB260 | | FOREMAN Pat Polster | WATER LEVEL - Completion N/E |
| | | LANGAN PERSONNEL Olivia Chasse | |

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| Symbol | ELEV (feet) | DESCRIPTION | Depth Scale | SAMPLE | | REMARKS |
|--------|-------------|--|-------------|--------|------|---|
| | | | | Number | Type | |
| | +130.0 | 12" Brown fine-medium SAND, some roots, trace silt (dry)[TOPSOIL] | 0 | | | Vertical sidewalls maintained. No redox. Roots to 1ft |
| | +129.0 | Brown fine-medium SAND, trace silt (dry) | 1 | | | |
| | +128.0 | Light brown fine-medium SAND, some silt, trace fine gravel (moist) | 2 | | | |
| | | | 3 | | | |
| | | | 4 | | | |
| | | | 5 | | | |
| | | | 6 | | | |
| | | | 7 | | | |
| | | | 8 | | | |
| | +122.0 | Bottom of Test Pit at 8ft | 8 | | | Bottom of Test Pit at 8ft, no groundwater encountered. Test pit backfilled with excavated soils in compacted lifts to grade. Surface restored with grass removed prior to excavation. |
| | | | 9 | | | |
| | | | 10 | | | |
| | | | 11 | | | |

LOG OF TEST PIT A-S-TP-13

| | | |
|---|-----------------------------------|-----------------------------------|
| PROJECT NAME Hudson Logistics Center | PROJECT NUMBER 151010101 | DATE 6/23/2020 12:40:00 PM |
| LOCATION 59 Steele Road, Hudson, NH | ELEVATION Elev. + 133 (NGVD29) | |
| EXCAVATION CONTRACTOR Polster Industries | DEPTH 8.3 ft | WATER LEVEL - First N/E |
| EQUIPMENT CAT 305E | FOREMAN Wanderley Docarno | WATER LEVEL - Completion N/E |
| | | LANGAN PERSONNEL Olivia Chasse |

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| Symbol | ELEV (feet) | DESCRIPTION | Depth Scale | SAMPLE | | REMARKS |
|--------|-------------|--|-------------|--------|------|---|
| | | | | Number | Type | |
| | +133.0 | 6" Light brown fine-medium SAND, some roots, trace silt (dry)[TOPSOIL] | 0 | | | Vertical sidewalls maintained. No redox. |
| | +132.5 | Light brown fine-medium SAND, trace silt (dry) | 1 | | | Roots to 0.5ft |
| | | | 2 | | | |
| | | | 3 | | | |
| | | | 4 | | | |
| | | | 5 | | | |
| | | | 6 | | | |
| | | | 7 | | | |
| | | | 8 | | | |
| | +124.7 | Bottom of Test Pit at 8.3ft | 9 | | | Bottom of Test Pit at 8.3ft, no groundwater encountered. Test pit backfilled with excavated soils in compacted lifts to grade. Surface restored with grass removed prior to excavation. |
| | | | 10 | | | |
| | | | 11 | | | |

LOG OF TEST PIT A-S-TP-14

| | | |
|---|-------------------------------------|-----------------------------------|
| PROJECT NAME Hudson Logistics Center | PROJECT NUMBER 151010101 | DATE 6/23/2020 10:46:00 AM |
| LOCATION 59 Steele Road, Hudson, NH | ELEVATION Elev. + 135.5 (NGVD29) | |
| EXCAVATION CONTRACTOR Polster Industries | DEPTH 7.5 ft | WATER LEVEL - First 7 ft |
| EQUIPMENT CAT 305E | FOREMAN Wanderley | LANGAN PERSONNEL Olivia Chasse |

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| Symbol | ELEV (feet) | DESCRIPTION | Depth Scale | SAMPLE | | REMARKS |
|--------|-------------|--|-------------|--------|------|---|
| | | | | Number | Type | |
| | +135.5 | 6" Dark brown fine-medium SAND, some silt, some roots (dry)[TOPSOIL] | 0 | | | Vertical sidewalls maintained. No redox. Roots to 1ft |
| | +135.0 | Light brown fine-medium SAND, trace silt (dry) | | | | |
| | +134.5 | Brown fine-coarse SAND, some f-c gravel, trace silt (moist) | 1 | | | |
| | | | 2 | | | |
| | | | 3 | | | |
| | | | 4 | | | |
| | | | 5 | | | |
| | | | 6 | | | |
| | | | 7 | | | Groundwater encountered at 7ft |
| | +128.5 | Brown fine-coarse SAND, some f-c gravel, trace silt (wet) | | | | |
| | +128.0 | Bottom of Test Pit at 7.5ft | 8 | | | Bottom of Test Pit at 7.5ft. Test pit backfilled with excavated soils in compacted lifts to grade. Surface restored with grass removed prior to excavation. |
| | | | 9 | | | |
| | | | 10 | | | |
| | | | 11 | | | |

LOG OF TEST PIT A-S-TP-15

| | | |
|---|-----------------------------------|------------------------------------|
| PROJECT NAME Hudson Logistics Center | PROJECT NUMBER 151010101 | DATE 6/4/2020 2:45:00 PM |
| LOCATION 59 Steele Road, Hudson, NH | ELEVATION Elev. + 137 (NGVD29) | |
| EXCAVATION CONTRACTOR Polster Industries | DEPTH 8 ft | WATER LEVEL - First 7.5 ft |
| EQUIPMENT CAT 305E | FOREMAN Pat Polster | LANGAN PERSONNEL Jack Berritt |
| | | WATER LEVEL - Completion 7.5 ft |

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| Symbol | ELEV (feet) | DESCRIPTION | Depth Scale | SAMPLE | | REMARKS |
|--------|-------------|--|-------------|--------|------|---|
| | | | | Number | Type | |
| | +137.0 | 6" Brown fine-medium SAND, trace silt, trace roots (dry) [TOPSOIL] | 0 | | | Vertical sidewalls mostly maintained. No redox. |
| | +136.5 | Brown medium SAND, trace silt (dry) | 1 | | | |
| | | | 2 | | | |
| | | | 3 | | | |
| | | | 4 | | | |
| | | | 5 | G-1 | GRAB | |
| | | | 6 | | | |
| | | | 7 | | | |
| | | | 8 | | | |
| | | | 9 | | | |
| | | | 10 | | | |
| | | | 11 | | | |
| | +129.5 | Brown medium SAND, trace silt (wet) | | | | Groundwater encountered at 7.5ft |
| | +129.0 | Bottom of Test Pit at 8ft | | | | Bottom of Test Pit at 8ft. Test pit backfilled with excavated soils in compacted lifts to grade. Surface restored with grass removed prior to excavation. |

LOG OF TEST PIT A-S-TP-16

| | | | |
|---|--|-------------------------------------|---------------------------------|
| PROJECT NAME Hudson Logistics Center | | PROJECT NUMBER 151010101 | DATE 6/25/2020 10:02:00 AM |
| LOCATION 59 Steele Road, Hudson, NH | | ELEVATION Elev. + 140.5 (NGVD29) | |
| EXCAVATION CONTRACTOR Polster Industries | | DEPTH 8 ft | WATER LEVEL - First N/E |
| EQUIPMENT CAT 305E | | FOREMAN Pat Polster | WATER LEVEL - Completion N/E |
| | | LANGAN PERSONNEL Olivia Chasse | |

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| Symbol | ELEV (feet) | DESCRIPTION | Depth Scale | SAMPLE | | REMARKS |
|--------|-------------|---|-------------|--------|------|---|
| | | | | Number | Type | |
| | +140.5 | 6" Brown fine-medium SAND, some roots, trace silt (dry) [TOPSOIL] | 0 | | | Vertical sidewalls maintained. No redox Roots to 4ft |
| | +140.0 | | 1 | | | |
| | | Light brown fine-medium SAND, trace silt (dry) | 2 | | | |
| | | | 3 | | | |
| | | | 4 | | | |
| | | | 5 | | | |
| | | | 6 | | | |
| | | | 7 | | | |
| | +132.5 | Bottom of Test Pit at 8ft | 8 | | | Bottom of Test Pit at 8ft, no groundwater encountered. Test pit backfilled with excavated soils in compacted lifts to grade. Surface restored with grass removed prior to excavation. |
| | | | 9 | | | |
| | | | 10 | | | |
| | | | 11 | | | |

LOG OF TEST PIT A-S-TP-17

| | | |
|---|-------------------------------------|-----------------------------------|
| PROJECT NAME Hudson Logistics Center | PROJECT NUMBER 151010101 | DATE 6/24/2020 10:23:00 AM |
| LOCATION 59 Steele Road, Hudson, NH | ELEVATION Elev. + 160.5 (NGVD29) | |
| EXCAVATION CONTRACTOR Polster Industries | DEPTH 6.5 ft | WATER LEVEL - First N/E |
| EQUIPMENT Takeuchi TB260 | FOREMAN Pat Polster | WATER LEVEL - Completion N/E |
| | | LANGAN PERSONNEL Olivia Chasse |

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| Symbol | ELEV (feet) | DESCRIPTION | Depth Scale | SAMPLE | | REMARKS |
|--------|-------------|---|-------------|--------|------|---|
| | | | | Number | Type | |
| | +160.5 | 8" Brown fine-medium SAND, some roots, trace silt (dry)[TOPSOIL] | 0 | | | Vertical sidewalls mostly maintained. No redox. Roots to 1.5ft |
| | +159.8 | Light brown fine-medium SAND, trace silt, trace coarse sand (dry) | 1 | | | |
| | | | 2 | | | |
| | | | 3 | | | |
| | | | 4 | | | |
| | | | 5 | | | |
| | +154.0 | Bottom of Test Pit at 6.5ft | 6 | | | Bottom of Test Pit at 6.5ft, no groundwater encountered. Test pit backfilled with excavated soils in compacted lifts to grade. Surface restored with grass removed prior to excavation. |
| | | | 7 | | | |
| | | | 8 | | | |
| | | | 9 | | | |
| | | | 10 | | | |
| | | | 11 | | | |

LOG OF TEST PIT A-S-TP-18

| | | |
|---|-----------------------------------|---------------------------------|
| PROJECT NAME Hudson Logistics Center | PROJECT NUMBER 151010101 | DATE 6/4/2020 9:49:00 AM |
| LOCATION 59 Steele Road, Hudson, NH | ELEVATION Elev. + 131 (NGVD29) | |
| EXCAVATION CONTRACTOR Polster Industries | DEPTH 9 ft | WATER LEVEL - First N/E |
| EQUIPMENT CAT 305E | FOREMAN Pat Polster | WATER LEVEL - Completion N/E |
| | LANGAN PERSONNEL Olivia Chasse | |

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| Symbol | ELEV (feet) | DESCRIPTION | Depth Scale | SAMPLE | | REMARKS |
|--------|-------------|---|-------------|--------|------|---|
| | | | | Number | Type | |
| | +131.0 | 6" Dark brown fine-medium SAND, trace silt, trace gravel, trace roots | 0 | | | Vertical sidewalls mostly maintained. No redox. Roots to 4ft |
| | +130.5 | (dry)[TOPSOIL] | 1 | | | |
| | | | 2 | | | |
| | | Light brown fine-medium SAND, some fine gravel, trace silt (dry) | 3 | | | |
| | | | 4 | | | |
| | | | 5 | | | |
| | | | 6 | | | |
| | | | 7 | | | |
| | | | 8 | | | |
| | | | 9 | | | |
| | +122.0 | Bottom of Test Pit at 9ft | 9 | | | Bottom of Test Pit at 9ft, no groundwater encountered. Test pit backfilled with excavated soils in compacted lifts to grade. Surface restored with grass removed prior to excavation. |
| | | | 10 | | | |
| | | | 11 | | | |

LOG OF TEST PIT A-S-TP-19

| | | | |
|---|--|-------------------------------------|---------------------------------|
| PROJECT NAME Hudson Logistics Center | | PROJECT NUMBER 151010101 | DATE 6/29/2020 10:52:00 AM |
| LOCATION 59 Steele Road, Hudson, NH | | ELEVATION Elev. + 121.5 (NGVD29) | |
| EXCAVATION CONTRACTOR Polster Industries | | DEPTH 8 ft | WATER LEVEL - First N/E |
| EQUIPMENT CAT 305E | | FOREMAN Pat Polster | WATER LEVEL - Completion N/E |
| | | LANGAN PERSONNEL Taylor Sisti | |

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| Symbol | ELEV (feet) | DESCRIPTION | Depth Scale | SAMPLE | | REMARKS |
|--------|---------------------------|--|-------------|--------|---|--------------------------------|
| | | | | Number | Type | |
| | +121.5 | 5" Dark brown fine-medium SAND, some silt, some roots (moist)[TOPSOIL] | 0 | | | Vertical sidewalls maintained. |
| | +121.1 | Light brown to orangish SILT, trace fine sand, trace roots (moist) | 1 | | | |
| | +120.2 | Light brown SILT, some fine sand, trace roots (moist) | 2 | | | |
| | | | 3 | | | |
| | | | 4 | | | |
| | | | 5 | | | |
| | +116.5 | Light brown SILT, some fine sand (moist) | 6 | | | |
| | +114.0 | Mottled light brown to orangish brown sandy SILT (moist) | 7 | | | |
| +113.5 | Bottom of Test Pit at 8ft | 8 | | | Bottom of Test Pit at 8ft, no groundwater encountered. Test pit backfilled with excavated soils in compacted lifts to grade. Surface restored with grass removed prior to excavation. | |
| | | 9 | | | | |
| | | 10 | | | | |
| | | | 11 | | | |

LOG OF TEST PIT A-S-TP-20

| | | |
|---|-----------------------------------|----------------------------------|
| PROJECT NAME Hudson Logistics Center | PROJECT NUMBER 151010101 | DATE 6/4/2020 8:28:00 AM |
| LOCATION 59 Steele Road, Hudson, NH | ELEVATION Elev. + 153 (NGVD29) | |
| EXCAVATION CONTRACTOR Polster Industries | DEPTH 8.5 ft | WATER LEVEL - First N/E |
| EQUIPMENT Takeuchi TB260 | FOREMAN Pat Polster | WATER LEVEL - Completion N/E |
| | | LANGAN PERSONNEL Taylor Sisti |

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| Symbol | ELEV (feet) | DESCRIPTION | Depth Scale | SAMPLE | | REMARKS |
|--------|-------------|---|-------------|--------|------|---|
| | | | | Number | Type | |
| | +153.0 | 7" Light brown fine-medium SAND, some silt, some roots (moist)[TOPSOIL] | 0 | | | Vertical sidewalls maintained. No redox. |
| | +152.4 | Light brown fine-medium SAND, some silt (moist) | 1 | | | |
| | +151.2 | Light brown fine-medium SAND, trace silt (moist) | 2 | | | |
| | | | 3 | | | Roots to 3.5ft |
| | | | 4 | | | |
| | | | 5 | | | |
| | | | 6 | | | |
| | | | 7 | | | |
| | | | 8 | | | Bottom of Test Pit at 8.5ft, no groundwater encountered. Test pit backfilled with excavated soils in compacted lifts to grade. Surface restored with grass removed prior to excavation. |
| | +144.5 | Bottom of Test Pit at 8.5ft | 9 | | | |
| | | | 10 | | | |
| | | | 11 | | | |

LOG OF TEST PIT A-S-TP-21

| | | |
|---|-----------------------------------|----------------------------------|
| PROJECT NAME Hudson Logistics Center | PROJECT NUMBER 151010101 | DATE 6/29/2020 8:46:00 AM |
| LOCATION 59 Steele Road, Hudson, NH | ELEVATION Elev. + 115 (NGVD29) | |
| EXCAVATION CONTRACTOR Polster Industries | DEPTH 7.5 ft | WATER LEVEL - First N/E |
| EQUIPMENT CAT 305E | FOREMAN Pat Polster | WATER LEVEL - Completion N/E |
| | | LANGAN PERSONNEL Taylor Sisti |

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| Symbol | ELEV (feet) | DESCRIPTION | Depth Scale | SAMPLE | | REMARKS |
|--------|-------------|--|-------------|--------|------|---|
| | | | | Number | Type | |
| | +115.0 | 10" Light brown fine-medium SAND, some silt, some roots (moist)[TOPSOIL] | 0 | | | Vertical sidewalls maintained. No redox. |
| | +114.1 | Light brown SILT, some fine sand, trace fine gravel, trace roots (moist) | 1 | | | |
| | +113.7 | Light brown SILT, some fine sand, trace fine gravel (moist) | 2 | | | G-1 at 3ft. Infiltration test A-IT-21 at 3ft below grade, see log for details. |
| | | | 3 | G-1 | GRAB | |
| | | | 4 | | | |
| | | | 5 | | | |
| | | | 6 | | | Bottom of Test Pit at 7.5ft, no groundwater encountered. Test pit backfilled with excavated soils in compacted lifts to grade. Surface restored with grass removed prior to excavation. |
| | | | 7 | | | |
| | | | 8 | | | |
| | | | 9 | | | |
| | | | 10 | | | |
| | +107.5 | Bottom of Test Pit at 7.5ft | 11 | | | |

LOG OF TEST PIT A-S-TP-22

| | | | |
|---|--|-----------------------------------|---------------------------------|
| PROJECT NAME Hudson Logistics Center | | PROJECT NUMBER 151010101 | DATE 6/29/2020 9:31:00 AM |
| LOCATION 59 Steele Road, Hudson, NH | | ELEVATION Elev. + 114 (NGVD29) | |
| EXCAVATION CONTRACTOR Polster Industries | | DEPTH 7.5 ft | WATER LEVEL - First N/E |
| EQUIPMENT CAT 305E | | FOREMAN Pat Polster | WATER LEVEL - Completion N/E |
| | | LANGAN PERSONNEL Taylor Sisti | |

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| Symbol | ELEV (feet) | DESCRIPTION | Depth Scale | SAMPLE | | REMARKS |
|--------|-------------|---|-------------|--------|------|---|
| | | | | Number | Type | |
| | +114.0 | 8-9" Light brown fine-medium SAND, some silt, some roots (dry)[TOPSOIL] | 0 | | | Vertical sidewalls maintained. No redox. G-1 at 4ft. Infiltration test A-IT-22 at 4ft, see log for details. |
| | +113.2 | Light brown SILT, trace fine sand, trace roots (moist) | 1 | | | |
| | +112.2 | Light brown SILT, some fine sand, trace roots (moist) | 2 | | | |
| | | | 3 | | | |
| | | | 4 | G-1 | GRAB | |
| | | | 5 | | | |
| | +109.0 | Light brown silty fine SAND (moist) | 6 | | | |
| | | | 7 | | | |
| | | | 8 | | | |
| | | | 9 | | | |
| | +106.5 | Bottom of Test Pit at 7.5ft | 10 | | | Bottom of Test Pit at 7.5ft, no groundwater encountered. Test pit backfilled with excavated soils in compacted lifts to grade. Surface restored with grass removed prior to excavation. |
| | | | 11 | | | |

LOG OF TEST PIT A-S-TP-23

| | | | |
|---|--|-------------------------------------|---------------------------------|
| PROJECT NAME Hudson Logistics Center | | PROJECT NUMBER 151010101 | DATE 6/29/2020 9:38:00 AM |
| LOCATION 59 Steele Road, Hudson, NH | | ELEVATION Elev. + 113.5 (NGVD29) | |
| EXCAVATION CONTRACTOR Polster Industries | | DEPTH 8.5 ft | WATER LEVEL - First N/E |
| EQUIPMENT CAT 305E | | FOREMAN Pat Polster | WATER LEVEL - Completion N/E |
| | | LANGAN PERSONNEL Olivia Chasse | |

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| Symbol | ELEV (feet) | DESCRIPTION | Depth Scale | SAMPLE | | REMARKS |
|--------|-------------|---|-------------|--------|------|---|
| | | | | Number | Type | |
| | +113.5 | 9-10" Dark brown fine-medium SAND, some silt, some roots (moist)[TOPSOIL] | 0 | | | Vertical sidewalls maintained. |
| | +112.7 | Grayish brown to orangish SILT, some fine sand (moist) | 1 | | | |
| | | | 2 | | | |
| | +113.3 | Grayish brown to orangish SILT, some fine sand (moist) | 3 | | | |
| | | | 4 | | | |
| | | | 5 | | | |
| | | | 6 | | | |
| | | | 7 | | | |
| | | | 8 | | | |
| | +105.5 | Mottled grayish brown to orangish brown silty fine SAND (moist) | | | | |
| | +105.0 | Bottom of Test Pit at 8.5ft | 9 | | | Bottom of Test Pit at 8.5ft, no groundwater encountered. Test pit backfilled with excavated soils in compacted lifts to grade. Surface restored with grass removed prior to excavation. |
| | | | 10 | | | |
| | | | 11 | | | |

LOG OF TEST PIT A-S-TP-24

| | | |
|---|-----------------------------------|---------------------------------|
| PROJECT NAME Hudson Logistics Center | PROJECT NUMBER 151010101 | DATE 6/29/2020 8:18:00 AM |
| LOCATION 59 Steele Road, Hudson, NH | ELEVATION Elev. + 161 (NGVD29) | |
| EXCAVATION CONTRACTOR Polster Industries | DEPTH 7 ft | WATER LEVEL - First N/E |
| EQUIPMENT CAT 304E | FOREMAN Pat Polster | WATER LEVEL - Completion N/E |
| | LANGAN PERSONNEL Taylor Sisti | |

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| Symbol | ELEV (feet) | DESCRIPTION | Depth Scale | SAMPLE | | REMARKS |
|--------|-------------|---|-------------|--------|------|---|
| | | | | Number | Type | |
| | +161.0 | 8" Light brown fine-medium SAND, some silt, some roots (dry)[TOPSOIL] | 0 | | | Vertical sidewalls mostly maintained. No redox. |
| | +160.3 | Light brown fine-coarse SAND, some f-c gravel, trace silt, trace roots (dry) | 1 | | | |
| | +159.9 | | 2 | | | |
| | | Light brown fine-coarse SAND, some f-c gravel, trace silt, trace cobbles up to 7 inches (dry) | 3 | | | |
| | | | 4 | | | |
| | | | 5 | | | |
| | +155.3 | Light brown fine-coarse SAND, trace silt, trace f-c gravel (dry) | 6 | | | |
| | +154.0 | Bottom of Test Pit at 7ft | 7 | | | Bottom of Test Pit at 7ft, no groundwater encountered. Test pit backfilled with excavated soils in compacted lifts to grade. Surface restored with grass removed prior to excavation. |
| | | | 8 | | | |
| | | | 9 | | | |
| | | | 10 | | | |
| | | | 11 | | | |

LOG OF TEST PIT A-S-TP-25

| | | |
|---|-----------------------------------|----------------------------------|
| PROJECT NAME Hudson Logistics Center | PROJECT NUMBER 151010101 | DATE 6/29/2020 8:20:00 AM |
| LOCATION 59 Steele Road, Hudson, NH | ELEVATION Elev. + 155 (NGVD29) | |
| EXCAVATION CONTRACTOR Polster Industries | DEPTH 7.5 ft | WATER LEVEL - First N/E |
| EQUIPMENT Takeuchi TB260 | FOREMAN Wanderley Docarno | WATER LEVEL - Completion N/E |
| | | LANGAN PERSONNEL Taylor Sisti |

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| Symbol | ELEV (feet) | DESCRIPTION | Depth Scale | SAMPLE | | REMARKS |
|--------|-------------|---|-------------|--------|------|---|
| | | | | Number | Type | |
| | +155.0 | 10" Light brown fine-medium SAND, some silt, some roots (dry)[TOPSOIL] | 0 | | | Vertical sidewalls mostly maintained. No redox. |
| | +154.2 | Light brown fine-medium SAND, some silt, trace fine gravel, trace roots (dry) | 1 | | | |
| | +153.3 | Light brown fine-coarse SAND, some f-c gravel, trace silt (moist) | 2 | | | |
| | +152.2 | Light brown fine-coarse SAND, trace silt, trace f-c gravel (moist) | 3 | | | |
| | | | 4 | | | Mottling at 4.8ft |
| | | | 5 | | | |
| | | | 6 | | | |
| | | | 7 | | | |
| | +147.5 | Bottom of Test Pit at 7.5ft | 8 | | | Bottom of Test Pit at 7.5ft, no groundwater encountered. Test pit backfilled with excavated soils in compacted lifts to grade. Surface restored with grass removed prior to excavation. |
| | | | 9 | | | |
| | | | 10 | | | |
| | | | 11 | | | |

APPENDIX E

TEST PIT PHOTOGRAPHS

A-B-TP-01



151010101
Hudson Logistics Center
Hudson, NH

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A-B-TP-02



151010101
Hudson Logistics Center
Hudson, NH

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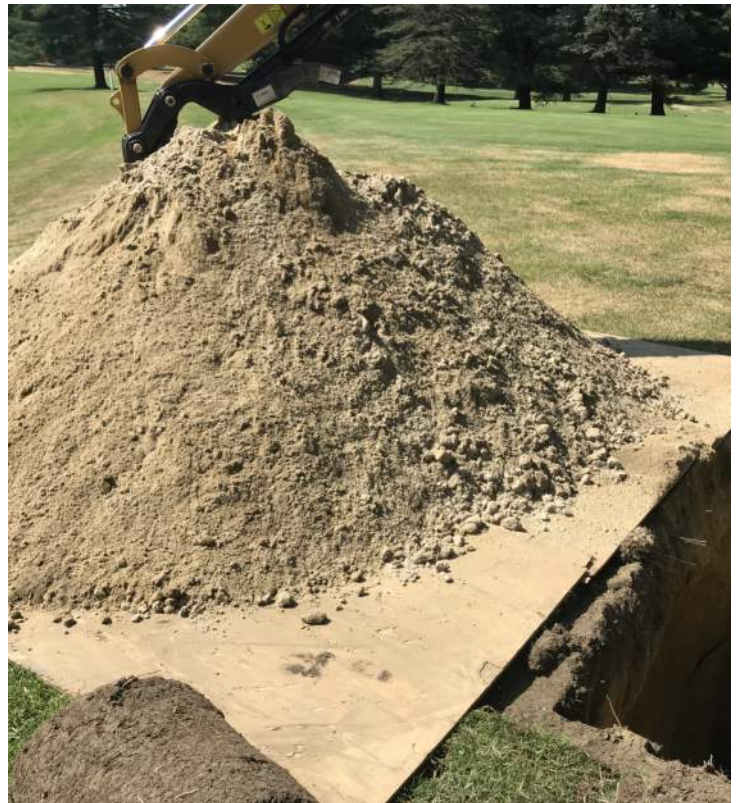
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A-B-TP-04



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A-B-TP-07



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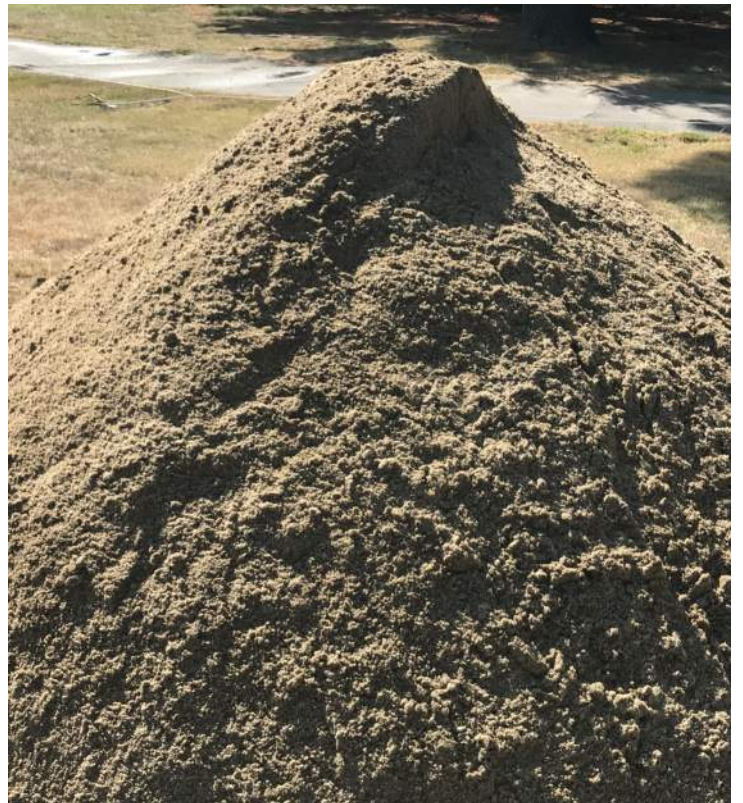
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A-R-TP-03



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Hudson Logistics Center
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A-R-TP-04



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A-R-TP-07



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A-S-TP-01



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A-S-TP-02



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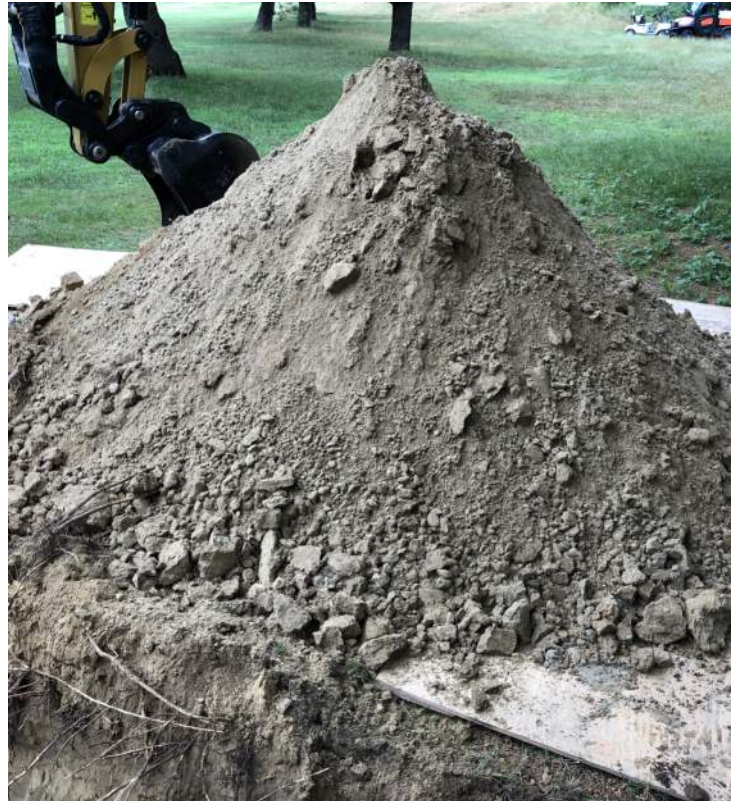
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**APPENDIX F
WELL CONSTRUCTION LOGS &
READINGS**

Lot A
 Summary of Groundwater Elevations
 Hudson, New Hampshire
 Langan Project No.: 151010101

| Monitoring Well Lot ID | A | | | | | | |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|-----------------|----------------|
| Monitoring Well ID | A-S-BOR-01(OW) | A-B-BOR-17(OW) | A-S-BOR-19(OW) | A-B-BOR-20(OW) | A-B-BOR-34(OW) | A-B-BOR-37(OW)A | A-B-BOR-40(OW) |
| Ground Surface Elevation (feet) | 133.0 | 130.0 | 151.0 | 135.0 | 131.5 | 140.5 | 144.5 |
| Installation Date | 7/1/2020 | 6/25/2020 | 7/2/2020 | 6/22/2020 | 6/25/2020 | 6/25/2020 | 6/19/2020 |
| Reference Point | Ground Surface | Ground Surface | Ground Surface | Ground Surface | Ground Surface | Ground Surface | Ground Surface |
| June 20, 2020 | | | | | | | |
| Depth to Groundwater (feet) | NI | NI | NI | NI | NI | NI | Dry |
| Groundwater Elevation (feet) | NA | NA | NA | NA | NA | NA | <128 |
| June 30, 2020 | | | | | | | |
| Depth to Groundwater (feet) | NI | NM | NI | NM | NM | NM | NM |
| Groundwater Elevation (feet) | NA | NA | NA | NA | NA | NA | NA |
| July 1, 2020 | | | | | | | |
| Depth to Groundwater (feet) | 8.5 | 7.8 | NI | 11.9 | 10.7 | 19.6 | Dry |
| Groundwater Elevation (feet) | 124.5 | 122.2 | NM | 118.1 | 119.3 | 110.4 | <128 |
| July 19, 2020 | | | | | | | |
| Depth to Groundwater (feet) | 8.3 | NM | Dry | 12.2 | 10.9 | NM | Dry |
| Groundwater Elevation (feet) | 124.7 | NA | <132 | 122.8 | 120.6 | NA | <128 |
| July 20, 2020 | | | | | | | |
| Depth to Groundwater (feet) | 8.8 | 8.8 | Dry | 12.5 | 11.1 | 20.1 | Dry |
| Groundwater Elevation (feet) | 124.3 | 121.2 | <132 | 122.5 | 120.4 | 120.4 | <128 |
| July 29, 2020 | | | | | | | |
| Depth to Groundwater (feet) | 8.9 | 8.9 | NM | 12.7 | 11.3 | 20.3 | Dry |
| Groundwater Elevation (feet) | 124.1 | 121.1 | NA | 122.3 | 120.2 | 120.2 | <128 |

Notes:

1. "Depth to Groundwater" results are shown in feet below ground surface. "Groundwater Elevation" is given in feet and references the National Geodetic Vertical Datum of 1929 (NGVD 1929).
2. Ground surface elevations were estimated by Langan by interpolating between the ground surface contours shown on the existing conditions plan provided by Hayner/Swanson, Inc. (HSI) of Nashua, New Hampshire. As such, the elevations should be considered approximate.
3. Abbreviations
 NI = Not Installed
 NA = Not Applicable

WELL CONSTRUCTION SUMMARY

Well No. A-S-BOR-01(OW)

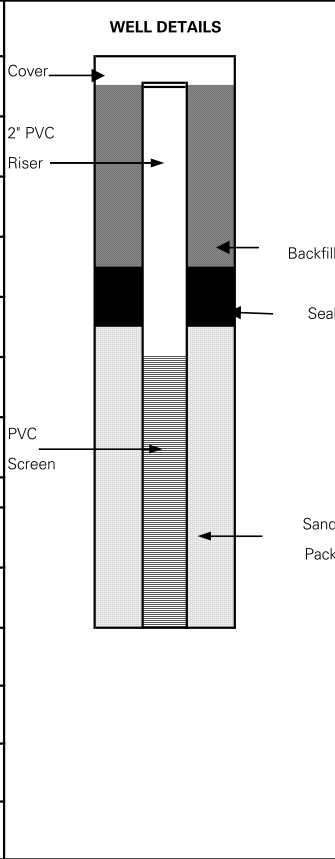
| | |
|---|--|
| PROJECT Project Hudson | PROJECT NO. 151010101 |
| LOCATION 59 Steele Road, Hudson, NH | ELEVATION AND DATUM Approx. 133 NGVD29 |
| DRILLING AGENCY SoilTesting, Inc. | DATE STARTED 7/1/2020 DATE FINISHED 7/1/2020 |
| DRILLING EQUIPMENT Truck Rig | DRILLER Mike Kennedy |
| SIZE AND TYPE OF BIT 4in Hollow Stem Auger | INSPECTOR Taylor Sisti |

METHOD OF INSTALLATION
 Boring A-S-BOR-01(OW) was advanced to about 16.8ft with 4" HSA. The boring was backfilled with soil cuttings to about 15ft. The screen and riser for the well was placed into the borehole. #2 filter sand was poured around the pipe to 1ft above the screen as the augers were removed. A 2-foot seal of 3/8" Bentonite Chips was placed above the filter sand. The remaining augers were removed and the remainder of the borehole was backfilled with auger cuttings. A curb box was installed at grade.

METHOD OF WELL DEVELOPMENT
 N/A

| | |
|--|---|
| TYPE OF CASING PVC DIAMETER 2in. | TYPE OF BACKFILL MATERIAL Auger cuttings |
| TYPE OF SCREEN PVC DIAMETER 2in. | TYPE OF SEAL MATERIAL 3/8" Bentonite Chips |
| BOREHOLE DIAMETER 4" | TYPE OF FILTER MATERIAL FilPro #2 sand |

| | ELEVATION | DEPTH (ft) |
|-------------------------|-----------|------------|
| TOP OF CASING | el. 133 | 0 |
| TOP OF BACKFILL | el. 132.5 | 0.5 |
| TOP OF SEAL | el. 131 | 2 |
| TOP OF FILTER | el. 129 | 4 |
| TOP OF SCREEN | el. 128 | 5 |
| BOTTOM OF BORING | el. 116.2 | 16.8 |
| SCREEN LENGTH | 10ft | |
| SLOT SIZE | 0.1in | |



| SUMMARY SOIL CLASSIFICATION | DEPTH (FT) |
|---|------------|
| Ground Surface | 0.0 |
| Orange brown SILT some fine sand | 4.0 |
| Brown fine SAND, trace silt some f-c gravel | 14.0 |
| TILL | 15.0 |

| GROUNDWATER ELEVATIONS | | |
|------------------------|-----------|---------------------|
| DATE | ELEVATION | DEPTH TO WATER (ft) |
| 7/1/2020 | 124.50 | 8.50 |
| 7/9/2020 | 124.70 | 8.30 |
| 7/20/2020 | 124.25 | 8.75 |
| 7/29/2020 | 124.10 | 8.90 |
| DATE | ELEVATION | DEPTH TO WATER (ft) |

LANGAN MA, Inc.

WELL CONSTRUCTION SUMMARY

Well No. A-B-BOR-17(OW)

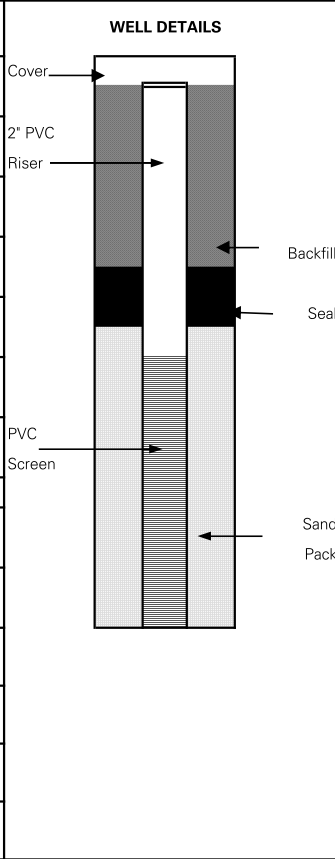
| | |
|---|--|
| PROJECT Project Hudson | PROJECT NO. 151010101 |
| LOCATION 59 Steele Road, Hudson, NH | ELEVATION AND DATUM Approx. 130 NGVD29 |
| DRILLING AGENCY SoilTesting, Inc. | DATE STARTED 6/25/2020 DATE FINISHED 6/25/2020 |
| DRILLING EQUIPMENT CME Truck-Mounted Drill Rig | DRILLER John Knepple |
| SIZE AND TYPE OF BIT 4" Hollow Stem Auger | INSPECTOR Kenneth Idem |

METHOD OF INSTALLATION
 Boring A-B-BOR-17(OW) was advanced to about 29.5ft with 4" HSA. The boring was backfilled with soil cuttings to about 16ft. The screen and riser for the well was placed into the borehole. #2 filter sand was poured around the pipe to 2ft above the screen as the augers were removed. A 2-foot seal of 3/8" Bentonite Chips was placed above the filter sand. The remaining augers were removed and the remainder of the borehole was backfilled with auger cuttings. A curb box was installed at grade.

METHOD OF WELL DEVELOPMENT
 N/A

| | |
|--|---|
| TYPE OF CASING PVC DIAMETER 2in. | TYPE OF BACKFILL MATERIAL Auger cuttings |
| TYPE OF SCREEN PVC DIAMETER 2in. | TYPE OF SEAL MATERIAL 3/8" Bentonite Chips |
| BOREHOLE DIAMETER 4" | TYPE OF FILTER MATERIAL FilPro #2 sand |

| | ELEVATION | DEPTH (ft) |
|-------------------------|-----------|------------|
| TOP OF CASING | el. 130 | 0 |
| TOP OF BACKFILL | el. 129.5 | 0.5 |
| TOP OF SEAL | el. 128 | 2 |
| TOP OF FILTER | el. 126 | 4 |
| TOP OF SCREEN | el. 124 | 6 |
| BOTTOM OF BORING | el. 100.5 | 29.5 |
| SCREEN LENGTH | 10ft | |
| SLOT SIZE | 0.1in | |



| SUMMARY SOIL CLASSIFICATION | DEPTH (FT) |
|-----------------------------|------------|
| Ground Surface | 0.0 |
| Brown fine SAND, trace silt | 16.0 |

| GROUNDWATER ELEVATIONS | | |
|------------------------|-----------|---------------------|
| DATE | ELEVATION | DEPTH TO WATER (ft) |
| 7/1/2020 | 122.20 | 7.80 |
| 7/20/2020 | 121.20 | 8.80 |
| 7/29/2020 | 121.10 | 8.90 |
| DATE | ELEVATION | DEPTH TO WATER (ft) |
| DATE | ELEVATION | DEPTH TO WATER (ft) |

LANGAN MA, Inc.

WELL CONSTRUCTION SUMMARY

Well No. A-S-BOR-19(OW)

| | |
|--|--|
| PROJECT Project Hudson | PROJECT NO. 151010101 |
| LOCATION 59 Steele Road, Hudson, NH | ELEVATION AND DATUM Approx. 151 NGVD29 |
| DRILLING AGENCY SoilTesting, Inc. | DATE STARTED 7/2/2020 DATE FINISHED 7/2/2020 |
| DRILLING EQUIPMENT Truck Rig | DRILLER Sam Deangelis |
| SIZE AND TYPE OF BIT 4" Hollow Stem Auger | INSPECTOR Jack Berritt |

METHOD OF INSTALLATION

Boring A-S-BOR-19(OW) was advanced to about 19ft with 4" HSA. The boring was backfilled with soil cuttings to about 10ft. The screen and riser for the well was placed into the borehole. A 1-foot seal of 3/8" Bentonite Chips was placed above the filter sand. The remaining augers were removed and the remainder of the borehole was backfilled with auger cuttings. A curb box was installed at grade.

METHOD OF WELL DEVELOPMENT

N/A

| | |
|--|---|
| TYPE OF CASING PVC DIAMETER 2in. | TYPE OF BACKFILL MATERIAL Auger cuttings |
| TYPE OF SCREEN PVC DIAMETER 2in. | TYPE OF SEAL MATERIAL 3/8" Bentonite Chips |
| BOREHOLE DIAMETER 4" | TYPE OF FILTER MATERIAL FilPro #2 sand |

| | ELEVATION | DEPTH (ft) |
|-------------------------|-----------|------------|
| TOP OF CASING | el. 151 | 0 |
| TOP OF BACKFILL | el. 150.5 | 0.5 |
| TOP OF SEAL | el. 145 | 6 |
| TOP OF FILTER | el. 143 | 8 |
| TOP OF SCREEN | el. 151 | 0 |
| BOTTOM OF BORING | el. 132 | 19 |
| SCREEN LENGTH | 19ft | |
| SLOT SIZE | 0.1in | |

| WELL DETAILS | | SUMMARY SOIL CLASSIFICATION | DEPTH (FT) |
|--------------|-----------|--|------------|
| Cover | Seal | Ground Surface | 0.0 |
| 2" PVC Riser | Seal | LightBrown fine SAND, trace silt trace fine gravel | 10.0 |
| PVC Screen | Seal | TILL | 19.0 |
| | Sand Pack | | |

GROUNDWATER ELEVATIONS

| DATE | ELEVATION | DEPTH TO WATER (ft) |
|-----------|-----------|---------------------|
| 7/9/2020 | < 132 | DRY |
| 7/20/2020 | < 132 | DRY |
| | | |
| | | |
| | | |
| | | |

LANGAN MA, Inc.

WELL CONSTRUCTION SUMMARY

Well No. A-B-BOR-20(OW)

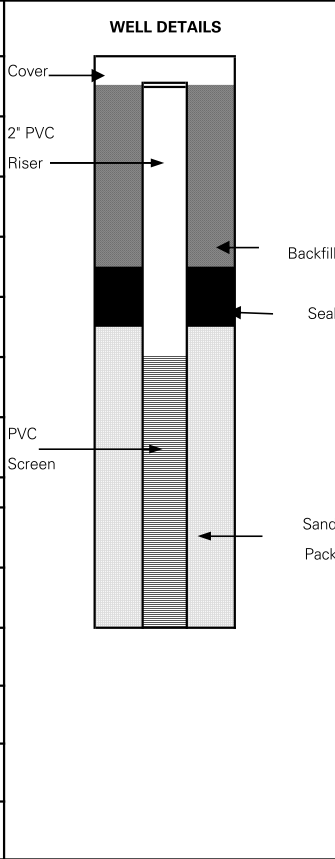
| | |
|--|--|
| PROJECT Project Hudson | PROJECT NO. 151010101 |
| LOCATION 59 Steele Road, Hudson, NH | ELEVATION AND DATUM Approx. 135 NGVD29 |
| DRILLING AGENCY Seaboard Drilling, Inc. | DATE STARTED 6/22/2020 DATE FINISHED 6/22/2020 |
| DRILLING EQUIPMENT Diedrich D50 | DRILLER Jeff Nitsch |
| SIZE AND TYPE OF BIT 4" Hollow Stem Auger | INSPECTOR Reid Balkind |

METHOD OF INSTALLATION
 Boring A-B-BOR-20(OW) was advanced to about 25.2ft with 4" HSA. The boring was backfilled with soil cuttings to about 18ft. The screen and riser for the well was placed into the borehole. #2 filter sand was poured around the pipe to 1ft above the screen as the augers were removed. A 2-foot seal of 3/8" Bentonite Chips was placed above the filter sand. The remaining augers were removed and the remainder of the borehole was backfilled with auger cuttings. A curb box was installed at grade.

METHOD OF WELL DEVELOPMENT
 N/A

| | |
|--|---|
| TYPE OF CASING PVC DIAMETER 2in. | TYPE OF BACKFILL MATERIAL Auger cuttings |
| TYPE OF SCREEN PVC DIAMETER 2in. | TYPE OF SEAL MATERIAL 3/8" Bentonite Chips |
| BOREHOLE DIAMETER 4" | TYPE OF FILTER MATERIAL FilPro #2 sand |

| | ELEVATION | DEPTH (ft) |
|-------------------------|-----------|------------|
| TOP OF CASING | el. 135 | 0 |
| TOP OF BACKFILL | el. 134.5 | 0.5 |
| TOP OF SEAL | el. 130 | 5 |
| TOP OF FILTER | el. 128 | 7 |
| TOP OF SCREEN | el. 127 | 8 |
| BOTTOM OF BORING | el. 109.8 | 25.2 |
| SCREEN LENGTH | 10ft | |
| SLOT SIZE | 0.1in | |



| SUMMARY SOIL CLASSIFICATION | DEPTH (FT) |
|---|------------|
| Ground Surface | 0.0 |
| Brown fine SAND, trace silt, trace f-c gravel | 13.5 |
| TILL | 18.0 |

GROUNDWATER ELEVATIONS

| DATE | ELEVATION | DEPTH TO WATER (ft) |
|-----------|-----------|---------------------|
| 7/1/2020 | 123.10 | 11.90 |
| 7/9/2020 | 122.80 | 12.20 |
| 7/20/2020 | 122.50 | 12.50 |
| 7/29/2020 | 122.30 | 12.70 |
| DATE | ELEVATION | DEPTH TO WATER (ft) |

LANGAN MA, Inc.

WELL CONSTRUCTION SUMMARY

Well No. A-B-BOR-34(OW)

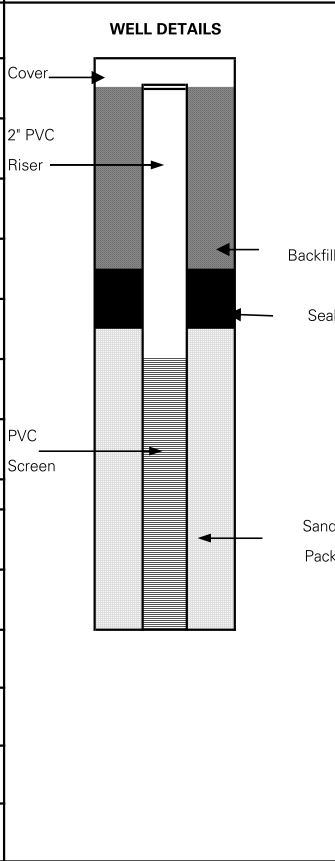
| | |
|--|--|
| PROJECT Project Hudson | PROJECT NO. 151010101 |
| LOCATION 59 Steele Road, Hudson, NH | ELEVATION AND DATUM Approx. 131.5 NGVD29 |
| DRILLING AGENCY Atlantic Testing Laboratories | DATE STARTED 6/25/2020 DATE FINISHED 6/25/2020 |
| DRILLING EQUIPMENT Geoprobe 7822 DT | DRILLER Scott McGregor |
| SIZE AND TYPE OF BIT 3-7/8in Tricone Roller Bit | INSPECTOR Jack Berritt |

METHOD OF INSTALLATION
 Boring A-B-BOR-34(OW) was advanced to about 32ft with 3-7/8" casings. The boring was backfilled with soil cuttings to about 20ft. The screen and riser for the well was placed into the borehole. #2 filter sand was poured around the pipe to 8ft above the screen as the augers were removed. A 1.5-foot seal of 3/8" Bentonite Chips was placed above the filter sand. The remaining casings were removed and the remainder of the borehole was backfilled with auger cuttings. A curb box was installed at grade.

METHOD OF WELL DEVELOPMENT
 N/A

| | |
|--|---|
| TYPE OF CASING PVC DIAMETER 2in. | TYPE OF BACKFILL MATERIAL Auger cuttings |
| TYPE OF SCREEN PVC DIAMETER 2in. | TYPE OF SEAL MATERIAL 3/8" Bentonite Chips |
| BOREHOLE DIAMETER 3-7/8" | TYPE OF FILTER MATERIAL FilPro #2 sand |

| TOP OF CASING | ELEVATION | DEPTH (ft) |
|----------------------|-----------|------------|
| | el. 131.5 | 0 |
| TOP OF BACKFILL | ELEVATION | DEPTH (ft) |
| | el. 131.5 | 0 |
| TOP OF SEAL | ELEVATION | DEPTH (ft) |
| | el. 131 | 0.5 |
| TOP OF FILTER | ELEVATION | DEPTH (ft) |
| | el. 129.5 | 2 |
| TOP OF SCREEN | ELEVATION | DEPTH (ft) |
| | el. 121.5 | 10 |
| BOTTOM OF BORING | ELEVATION | DEPTH (ft) |
| | el. 99.5 | 32 |
| SCREEN LENGTH | 10ft | |
| SLOT SIZE | 0.1in | |



| SUMMARY SOIL CLASSIFICATION | DEPTH (FT) |
|-----------------------------|------------|
| Ground Surface | 0.0 |
| Brown fine SAND, trace silt | 20.0 |
| trace fine gravel | |

| GROUNDWATER ELEVATIONS | | |
|------------------------|-----------|---------------------|
| DATE | ELEVATION | DEPTH TO WATER (ft) |
| 7/1/2020 | 119.30 | 10.70 |
| 7/9/2020 | 120.60 | 10.90 |
| 7/20/2020 | 120.40 | 11.10 |
| 7/29/2020 | 120.20 | 11.30 |
| DATE | ELEVATION | DEPTH TO WATER (ft) |

LANGAN MA, Inc.

WELL CONSTRUCTION SUMMARY

Well No. A-B-BOR-37A(OW)

| | |
|--|--|
| PROJECT Project Hudson | PROJECT NO. 151010101 |
| LOCATION 59 Steele Road, Hudson, NH | ELEVATION AND DATUM Approx. 140.5 NGVD29 |
| DRILLING AGENCY Seaboard Drilling, Inc. | DATE STARTED 6/25/2020 DATE FINISHED 6/25/2020 |
| DRILLING EQUIPMENT Mobile Drill B53 | DRILLER Jeff Nitsch |
| SIZE AND TYPE OF BIT 4" Hollow Stem Auger | INSPECTOR Reid Balkind |

METHOD OF INSTALLATION

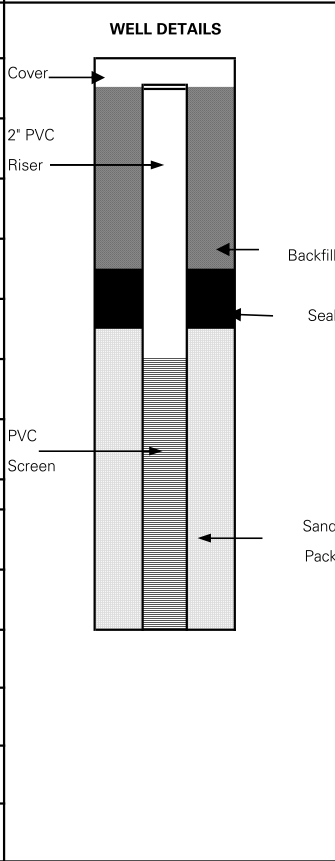
Boring A-B-BOR-37A(OW) was advanced to about 30.3ft with 4" HSA. The screen and riser for the well was placed into the borehole. #2 filter sand was poured around the pipe to 1ft above the screen as the augers were removed. A 4-foot seal of 3/8" Bentonite Chips was placed above the filter sand. The remaining augers were removed and the remainder of the borehole was backfilled with auger cuttings. A curb box was installed at grade.

METHOD OF WELL DEVELOPMENT

N/A

| | |
|--|---|
| TYPE OF CASING PVC DIAMETER 2in. | TYPE OF BACKFILL MATERIAL Auger cuttings |
| TYPE OF SCREEN PVC DIAMETER 2in. | TYPE OF SEAL MATERIAL 3/8" Bentonite Chips |
| BOREHOLE DIAMETER 4" | TYPE OF FILTER MATERIAL FilPro #2 sand |

| | ELEVATION | DEPTH (ft) |
|-------------------------|-----------|------------|
| TOP OF CASING | el. 140.5 | 0 |
| TOP OF BACKFILL | el. 140 | 0.5 |
| TOP OF SEAL | el. 125.5 | 15 |
| TOP OF FILTER | el. 121.5 | 19 |
| TOP OF SCREEN | el. 120.5 | 20 |
| BOTTOM OF BORING | el. 110.2 | 30.3 |
| SCREEN LENGTH | 10ft | |
| SLOT SIZE | 0.1in | |



| SUMMARY SOIL CLASSIFICATION | DEPTH (FT) |
|--|------------|
| Ground Surface | 0.0 |
| Brown fine-coarse SAND, trace silt, trace fine gravel | 15.0 |
| Dark gray fine-coarse SAND, trace silt, some fc gravel | 20.0 |
| TILL | 30.0 |

GROUNDWATER ELEVATIONS

| DATE | ELEVATION | DEPTH TO WATER (ft) |
|-----------|-----------|---------------------|
| 7/1/2020 | 120.90 | 19.60 |
| 7/20/2020 | 120.40 | 20.10 |
| 7/29/2020 | 120.20 | 20.30 |
| | | |
| | | |
| | | |

LANGAN MA, Inc.

WELL CONSTRUCTION SUMMARY

Well No. A-B-BOR-40(OW)

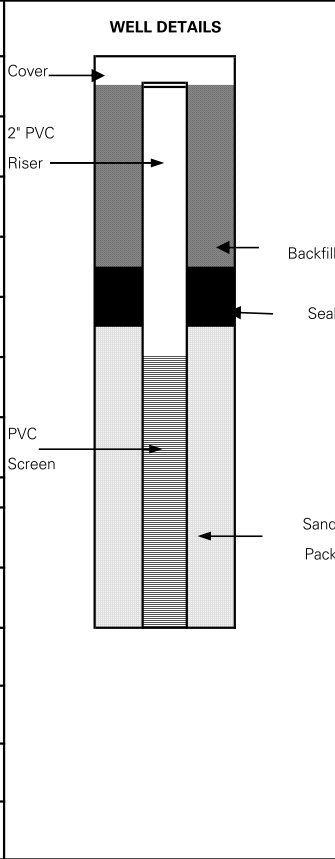
| | |
|--|--|
| PROJECT Project Hudson | PROJECT NO. 151010101 |
| LOCATION 59 Steele Road, Hudson, NH | ELEVATION AND DATUM Approx. 144.5 NGVD29 |
| DRILLING AGENCY Atlantic Testing Laboratories | DATE STARTED 6/19/2020 DATE FINISHED 6/19/2020 |
| DRILLING EQUIPMENT Geoprobe 7822 DT | DRILLER Ben Cray |
| SIZE AND TYPE OF BIT 4" Hollow Stem Auger | INSPECTOR Kenneth Idem |

METHOD OF INSTALLATION
 Boring A-B-BOR-40(OW) was advanced to about 34ft with 4" HSA. The boring was backfilled with soil cuttings to about 16.5ft. The screen and riser for the well was placed into the borehole. #2 filter sand was poured around the pipe to 3ft above the screen as the augers were removed. A 3-foot seal of 3/8" Bentonite Chips was placed above the filter sand. The remaining augers were removed and the remainder of the borehole was backfilled with auger cuttings. A curb box was installed at grade.

METHOD OF WELL DEVELOPMENT
 N/A

| | |
|--|---|
| TYPE OF CASING PVC DIAMETER 2in. | TYPE OF BACKFILL MATERIAL Auger cuttings |
| TYPE OF SCREEN PVC DIAMETER 2in. | TYPE OF SEAL MATERIAL 3/8" Bentonite Chips |
| BOREHOLE DIAMETER 4" | TYPE OF FILTER MATERIAL FilPro #2 sand |

| | ELEVATION | DEPTH (ft) |
|-------------------------|-----------|------------|
| TOP OF CASING | el. 144.5 | 0 |
| TOP OF BACKFILL | el. 144.5 | 0 |
| TOP OF SEAL | el. 144 | 0.5 |
| TOP OF FILTER | el. 141 | 3.5 |
| TOP OF SCREEN | el. 138 | 6.5 |
| BOTTOM OF BORING | el. 110.5 | 34 |
| SCREEN LENGTH | 10ft | |
| SLOT SIZE | 0.1in | |



| SUMMARY SOIL CLASSIFICATION | DEPTH (FT) |
|---|------------|
| Ground Surface | 0.0 |
| Mixed Bedding: Brown fine-coarse SAND, Brown silty fine SAND, trace fine gravel, trace silt | 16.5 |

GROUNDWATER ELEVATIONS

| DATE | ELEVATION | DEPTH TO WATER (ft) |
|-----------|-----------|---------------------|
| 6/20/2020 | < 128 | DRY |
| 7/1/2020 | < 128 | DRY |
| 7/9/2020 | < 128 | DRY |
| 7/20/2020 | < 128 | DRY |
| 7/29/2020 | < 128 | DRY |
| DATE | ELEVATION | DEPTH TO WATER (ft) |

LANGAN MA, Inc.

APPENDIX G
LABORATORY TEST RESULTS



| | | | |
|------------|--------------------|--------------|------------|
| Client: | Langan Engineering | | |
| Project: | Project Hudson | | |
| Location: | Hudson, NH | Project No: | GTX-311848 |
| Boring ID: | --- | Sample Type: | --- |
| Sample ID: | --- | Test Date: | 07/08/20 |
| Depth : | --- | Test Id: | 562937 |
| | | Tested By: | cam |
| | | Checked By: | jsc |

Moisture Content of Soil and Rock - ASTM D2216

| Boring ID | Sample ID | Depth | Description | Moisture Content, % |
|-------------|-----------|----------|---|---------------------|
| A-B-BOR-12 | S- 2 | 2-4 ft | Moist, light yellowish brown silty sand | 10.9 |
| A-B-BOR-18 | S- 6 | 10-12 ft | Moist, light olive brown sand | 16.0 |
| A-B-BOR-19 | S- 4 | 6-8 ft | Moist, light olive brown silty sand with gravel | 5.9 |
| A-B-BOR-28 | S- 3 | 4-6 ft | Moist, dark olive brown silty sand with gravel | 9.3 |
| A-B-BOR-33 | S- 2 | 2-4 ft | Moist, light yellowish brown silt | 22.2 |
| A-B-BOR-40 | S- 4 | 6-8 ft | Moist, yellowish brown silty sand | 13.6 |
| A-B-BOR-42 | S- 5 | 8-10 ft | Moist, yellowish brown sandy silt | 18.9 |
| A-B-BOR-44 | S- 6 | 10-12 ft | Moist, olive brown sand | 14.6 |
| A-B-BOR-105 | S- 3 | 4-6 ft | Moist, light yellowish brown silty sand | 19.4 |

Notes: Temperature of Drying : 110° Celsius



| | | | | | |
|------------|--------------------|--------------|------------|-------------|-----|
| Client: | Langan Engineering | | | | |
| Project: | Project Hudson | | | | |
| Location: | Hudson, NH | Project No: | GTX-311848 | | |
| Boring ID: | --- | Sample Type: | --- | Tested By: | ckg |
| Sample ID: | --- | Test Date: | 07/31/20 | Checked By: | bfs |
| Depth : | --- | Test Id: | 567314 | | |

Moisture Content of Soil and Rock - ASTM D2216

| Boring ID | Sample ID | Depth | Description | Moisture Content, % |
|-----------|-----------|----------|-------------------------------------|---------------------|
| A-S-TP-02 | G- 1 | 5-5.5 ft | Moist, light olive brown sandy silt | 26.9 |
| A-S-TP-21 | G- 1 | 3-4 ft | Moist, light olive brown sandy silt | 12.2 |
| A-S-TP-22 | G- 1 | 4-5 ft | Moist, yellowish brown sandy silt | 19.2 |

Notes: Temperature of Drying : 110° Celsius



| | | | |
|----------------------------|-------------------------|----------------------|------------------------|
| Client: Langan Engineering | Project: Project Hudson | Location: Hudson, NH | Project No: GTX-311848 |
| Boring ID: --- | Sample Type: --- | Tested By: ckg | Checked By: jsc |
| Sample ID: --- | Test Date: 06/17/20 | Test Id: 559913 | |
| Depth : --- | | | |

Moisture Content of Soil and Rock - ASTM D2216

| Boring ID | Sample ID | Depth | Description | Moisture Content, % |
|------------|-----------|----------|---|---------------------|
| A-S-BOR-06 | S- 8 | 17-19 ft | Moist, dark brown gravel with silt and sand | 16.1 |
| A-S-BOR-21 | S- 5 | 8-10 ft | Moist, light yellowish brown silty sand with gravel | 3.5 |
| A-S-BOR-28 | S- 7 | 15-17 ft | Moist, light olive brown silt | 42.9 |
| A-S-BOR-29 | S- 2 | 2-4 ft | Moist, light olive brown sand | 2.1 |
| A-S-BOR-31 | S- 3 | 4-6 ft | Moist, light yellowish brown silt | 19.2 |
| A-S-BOR-33 | S- 4 | 6-8 ft | Moist, light yellowish brown sand | 4.2 |

Notes: Temperature of Drying : 110° Celsius



| | | | |
|------------|--------------------|--------------|------------|
| Client: | Langan Engineering | | |
| Project: | Project Hudson | | |
| Location: | Hudson, NH | Project No: | GTX-311848 |
| Boring ID: | --- | Sample Type: | --- |
| Sample ID: | --- | Test Date: | 06/22/20 |
| Depth : | --- | Test Id: | 559915 |
| | | Tested By: | ckg |
| | | Checked By: | jsc |

Amount of Material Passing #200 Sieve - ASTM D1140

| Boring ID | Sample ID | Depth | Visual Description | Fines, % |
|------------|-----------|----------|-------------------------------|----------|
| A-B-BOR-44 | S-6 | 10-12 ft | Moist, olive brown sand | 3.3 |
| A-S-BOR-28 | S-7 | 15-17 ft | Moist, light olive brown silt | 98.6 |

Notes: Tests performed using Method B - washing using a wetting agent
Dry mass of test specimen was determined directly



| | | | |
|------------|--------------------|--------------|------------|
| Client: | Langan Engineering | | |
| Project: | Project Hudson | | |
| Location: | Hudson, NH | Project No: | GTX-311848 |
| Boring ID: | --- | Sample Type: | --- |
| Sample ID: | --- | Test Date: | 08/05/20 |
| Depth : | --- | Tested By: | ckg |
| | | Checked By: | bfs |
| | | Test Id: | 567302 |

Amount of Material Passing #200 Sieve - ASTM D1140

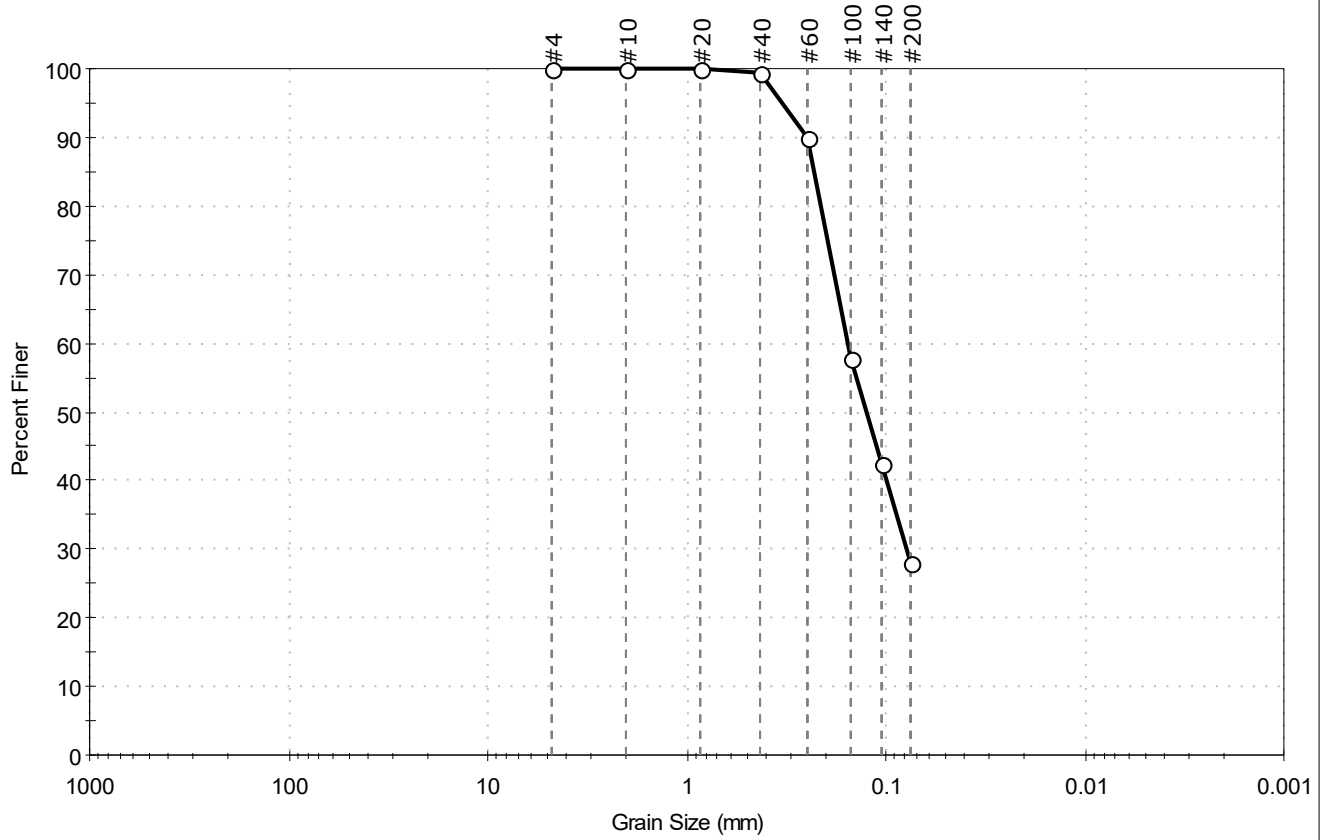
| Boring ID | Sample ID | Depth | Visual Description | Fines, % |
|------------|-----------|----------|-------------------------------------|----------|
| A-R-BOR-01 | S-8 | 20-22 ft | Moist, olive brown sand with gravel | 3.7 |
| A-R-BOR-05 | S-7 | 15-17 ft | Moist, olive brown sand with silt | 10.6 |
| A-R-BOR-12 | S-8B | 21-22 ft | Moist, olive brown sandy silt | 66.5 |
| A-R-BOR-16 | S-7 | 15-17 ft | Moist, brown sand | 0.3 |
| A-R-BOR-18 | S-5 | 8-10 ft | Moist, gray sand with gravel | 2.3 |

Notes: Tests performed using Method B - washing using a wetting agent
 Dry mass of test specimen was determined directly



| | | |
|----------------------------|---|------------------------|
| Client: Langan Engineering | Project: Project Hudson | Project No: GTX-311848 |
| Location: Hudson, NH | Boring ID: A-B-BOR-12 | Sample Type: jar |
| Sample ID: S-2 | Test Date: 06/10/20 | Tested By: ckg |
| Depth: 2-4 ft | Test Id: 559416 | Checked By: bfs |
| Test Comment: --- | Visual Description: Moist, light yellowish brown silty sand | Sample Comment: --- |

Particle Size Analysis - ASTM D6913



| | | | |
|----------|----------|--------|--------------------|
| % Cobble | % Gravel | % Sand | % Silt & Clay Size |
| — | 0.0 | 71.8 | 28.2 |

| Sieve Name | Sieve Size, mm | Percent Finer | Spec. Percent | Complies |
|------------|----------------|---------------|---------------|----------|
| #4 | 4.75 | 100 | | |
| #10 | 2.00 | 100 | | |
| #20 | 0.85 | 100 | | |
| #40 | 0.42 | 100 | | |
| #60 | 0.25 | 90 | | |
| #100 | 0.15 | 58 | | |
| #140 | 0.11 | 42 | | |
| #200 | 0.075 | 28 | | |
| | | | | |
| | | | | |

| <u>Coefficients</u> | |
|-----------------------------|-----------------------------|
| D ₈₅ = 0.2311 mm | D ₃₀ = 0.0784 mm |
| D ₆₀ = 0.1551 mm | D ₁₅ = N/A |
| D ₅₀ = 0.1256 mm | D ₁₀ = N/A |
| C _u = N/A | C _c = N/A |

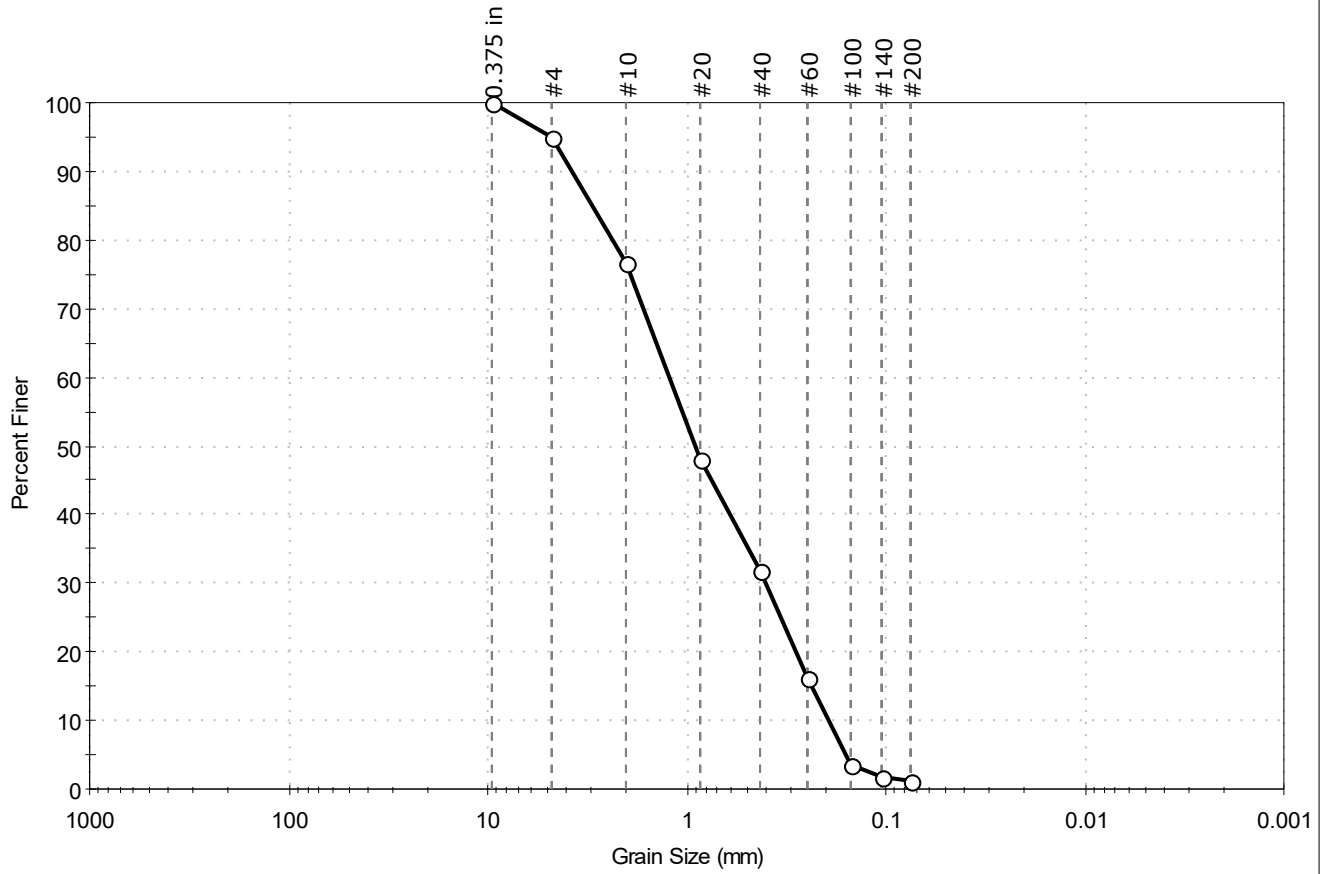
| <u>Classification</u> | |
|-----------------------|-----------------------------------|
| ASTM | N/A |
| AASHTO | Silty Gravel and Sand (A-2-4 (0)) |

| <u>Sample/Test Description</u> |
|----------------------------------|
| Sand/Gravel Particle Shape : --- |
| Sand/Gravel Hardness : --- |



| | | | |
|---|-------------------------|----------------------|------------------------|
| Client: Langan Engineering | Project: Project Hudson | Location: Hudson, NH | Project No: GTX-311848 |
| Boring ID: A-B-BOR-18 | Sample Type: jar | Tested By: ckg | Checked By: jsc |
| Sample ID: S-6 | Test Date: 07/09/20 | Test Id: 562930 | |
| Depth: 10-12 ft | | | |
| Test Comment: --- | | | |
| Visual Description: Moist, light olive brown sand | | | |
| Sample Comment: --- | | | |

Particle Size Analysis - ASTM D6913



| | | | |
|----------|----------|--------|--------------------|
| % Cobble | % Gravel | % Sand | % Silt & Clay Size |
| — | 4.9 | 94.0 | 1.1 |

| Sieve Name | Sieve Size, mm | Percent Finer | Spec. Percent | Complies |
|------------|----------------|---------------|---------------|----------|
| 0.375 in | 9.50 | 100 | | |
| #4 | 4.75 | 95 | | |
| #10 | 2.00 | 77 | | |
| #20 | 0.85 | 48 | | |
| #40 | 0.42 | 32 | | |
| #60 | 0.25 | 16 | | |
| #100 | 0.15 | 4 | | |
| #140 | 0.11 | 2 | | |
| #200 | 0.075 | 1.1 | | |
| | | | | |
| | | | | |

| <u>Coefficients</u> | |
|-----------------------------|-----------------------------|
| D ₈₅ = 2.9509 mm | D ₃₀ = 0.3998 mm |
| D ₆₀ = 1.2101 mm | D ₁₅ = 0.2382 mm |
| D ₅₀ = 0.8973 mm | D ₁₀ = 0.1948 mm |
| C _u = 6.212 | C _c = 0.678 |

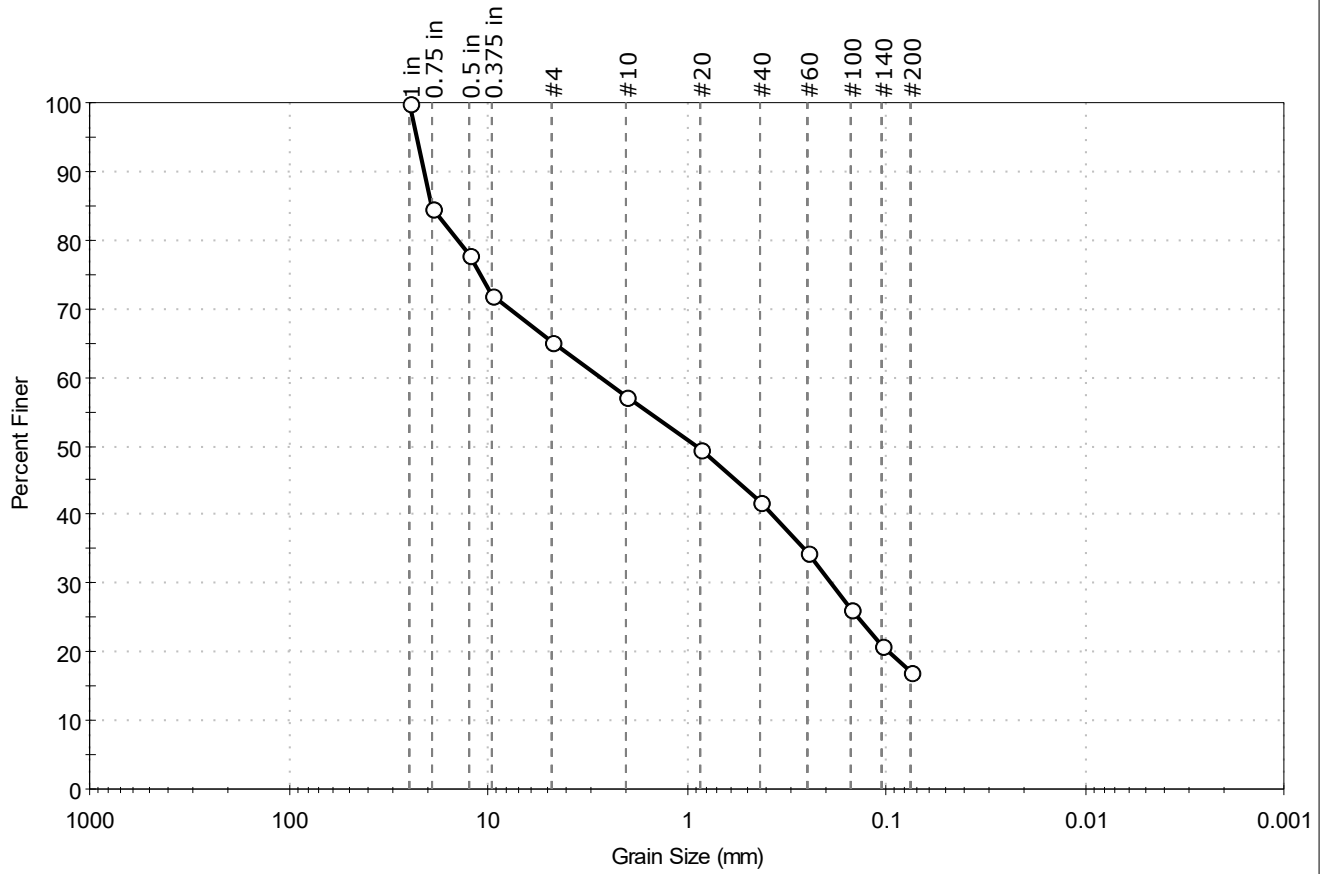
| <u>Classification</u> | |
|-----------------------|--|
| <u>ASTM</u> | Poorly graded SAND (SP) |
| <u>AASHTO</u> | Stone Fragments, Gravel and Sand (A-1-b (1)) |

| <u>Sample/Test Description</u> | |
|--------------------------------------|--|
| Sand/Gravel Particle Shape : ANGULAR | |
| Sand/Gravel Hardness : HARD | |



| | | | |
|---|-------------------------|----------------------|------------------------|
| Client: Langan Engineering | Project: Project Hudson | Location: Hudson, NH | Project No: GTX-311848 |
| Boring ID: A-B-BOR-19 | Sample Type: jar | Tested By: ckg | Checked By: jsc |
| Sample ID: S-4 | Test Date: 07/10/20 | Test Id: 562929 | |
| Depth: 6-8 ft | | | |
| Test Comment: --- | | | |
| Visual Description: Moist, light olive brown silty sand with gravel | | | |
| Sample Comment: --- | | | |

Particle Size Analysis - ASTM D6913



| | | | |
|----------|----------|--------|--------------------|
| % Cobble | % Gravel | % Sand | % Silt & Clay Size |
| — | 34.8 | 48.1 | 17.1 |

| Sieve Name | Sieve Size, mm | Percent Finer | Spec. Percent | Complies |
|------------|----------------|---------------|---------------|----------|
| 1 in | 25.00 | 100 | | |
| 0.75 in | 19.00 | 85 | | |
| 0.5 in | 12.50 | 78 | | |
| 0.375 in | 9.50 | 72 | | |
| #4 | 4.75 | 65 | | |
| #10 | 2.00 | 57 | | |
| #20 | 0.85 | 50 | | |
| #40 | 0.42 | 42 | | |
| #60 | 0.25 | 35 | | |
| #100 | 0.15 | 26 | | |
| #140 | 0.11 | 21 | | |
| #200 | 0.075 | 17 | | |
| | | | | |
| | | | | |

| <u>Coefficients</u> | |
|------------------------------|-----------------------------|
| D ₈₅ = 19.1533 mm | D ₃₀ = 0.1887 mm |
| D ₆₀ = 2.6940 mm | D ₁₅ = N/A |
| D ₅₀ = 0.8864 mm | D ₁₀ = N/A |
| C _u = N/A | C _c = N/A |

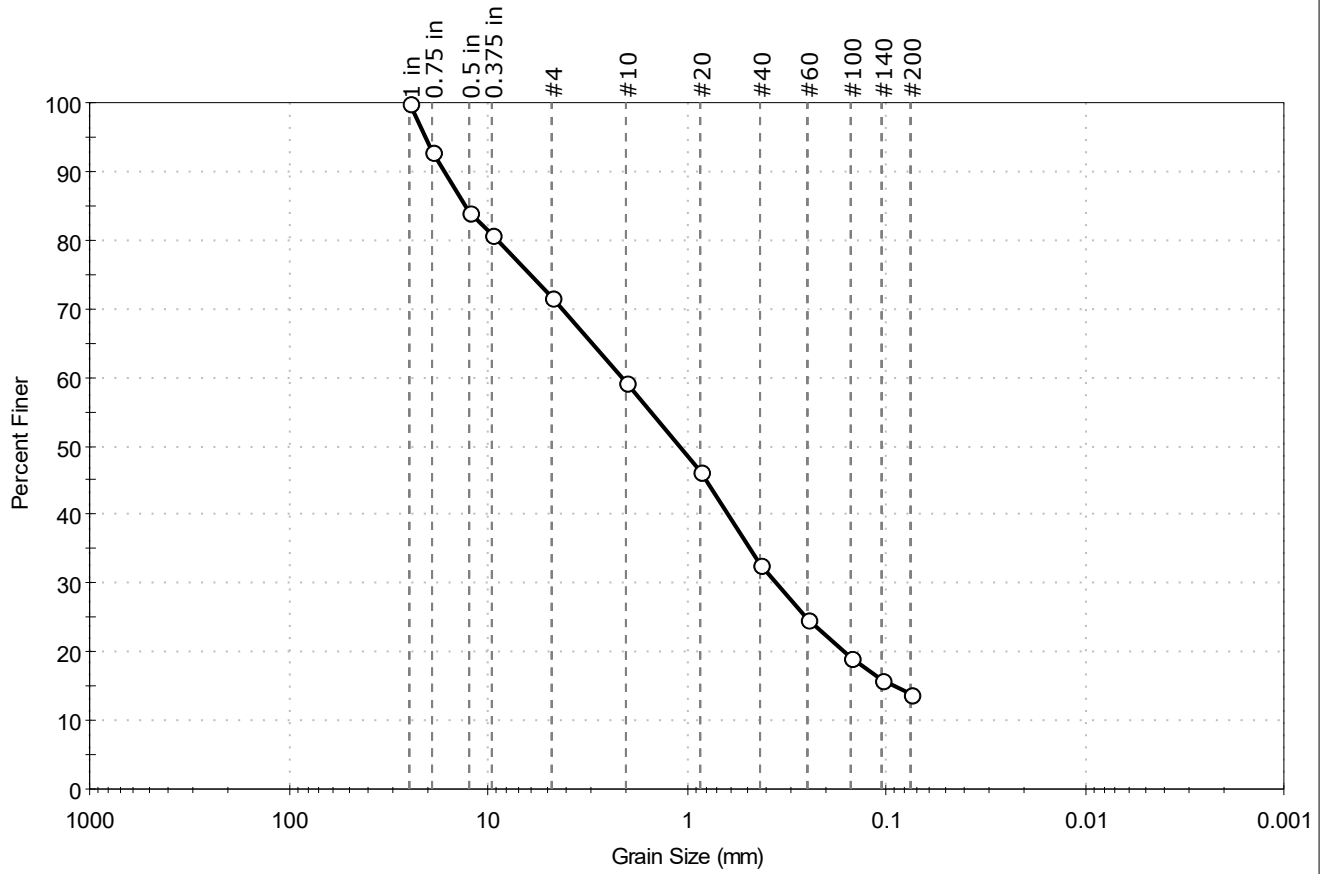
| <u>Classification</u> | |
|-----------------------|--|
| ASTM | N/A |
| AASHTO | Stone Fragments, Gravel and Sand (A-1-b (0)) |

| <u>Sample/Test Description</u> |
|--------------------------------------|
| Sand/Gravel Particle Shape : ANGULAR |
| Sand/Gravel Hardness : HARD |



| | | | |
|----------------------------|--|----------------------|------------------------|
| Client: Langan Engineering | Project: Project Hudson | Location: Hudson, NH | Project No: GTX-311848 |
| Boring ID: A-B-BOR-28 | Sample Type: jar | Tested By: ckg | Checked By: jsc |
| Sample ID: S-3 | Test Date: 07/09/20 | Test Id: 562926 | |
| Depth: 4-6 ft | | | |
| Test Comment: --- | Visual Description: Moist, dark olive brown silty sand with gravel | | |
| Sample Comment: --- | | | |

Particle Size Analysis - ASTM D6913



| | | | |
|----------|----------|--------|--------------------|
| % Cobble | % Gravel | % Sand | % Silt & Clay Size |
| — | 28.4 | 57.9 | 13.7 |

| Sieve Name | Sieve Size, mm | Percent Finer | Spec. Percent | Complies |
|------------|----------------|---------------|---------------|----------|
| 1 in | 25.00 | 100 | | |
| 0.75 in | 19.00 | 93 | | |
| 0.5 in | 12.50 | 84 | | |
| 0.375 in | 9.50 | 81 | | |
| #4 | 4.75 | 72 | | |
| #10 | 2.00 | 59 | | |
| #20 | 0.85 | 46 | | |
| #40 | 0.42 | 33 | | |
| #60 | 0.25 | 25 | | |
| #100 | 0.15 | 19 | | |
| #140 | 0.11 | 16 | | |
| #200 | 0.075 | 14 | | |
| | | | | |
| | | | | |

| <u>Coefficients</u> | |
|------------------------------|-----------------------------|
| D ₈₅ = 12.9971 mm | D ₃₀ = 0.3524 mm |
| D ₆₀ = 2.1044 mm | D ₁₅ = 0.0911 mm |
| D ₅₀ = 1.0852 mm | D ₁₀ = N/A |
| C _u = N/A | C _c = N/A |

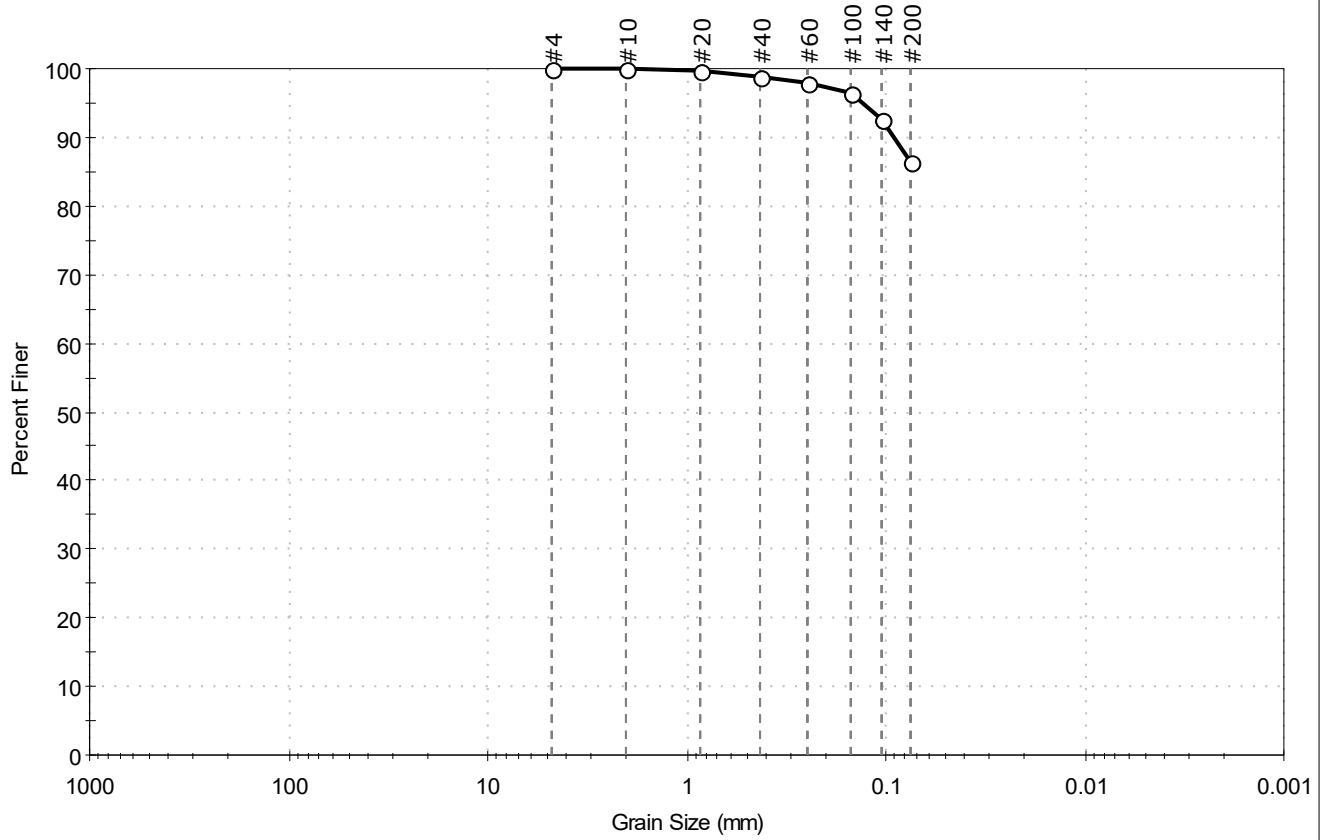
| <u>Classification</u> | |
|-----------------------|--|
| ASTM | N/A |
| AASHTO | Stone Fragments, Gravel and Sand (A-1-b (0)) |

Sample/Test Description
 Sand/Gravel Particle Shape : ANGULAR
 Sand/Gravel Hardness : HARD



| | | | |
|---|-------------------------|----------------------|------------------------|
| Client: Langan Engineering | Project: Project Hudson | Location: Hudson, NH | Project No: GTX-311848 |
| Boring ID: A-B-BOR-33 | Sample Type: jar | Tested By: ckg | Checked By: jsc |
| Sample ID: S-2 | Test Date: 07/09/20 | Test Id: 562928 | |
| Depth: 2-4 ft | | | |
| Test Comment: --- | | | |
| Visual Description: Moist, light yellowish brown silt | | | |
| Sample Comment: --- | | | |

Particle Size Analysis - ASTM D6913



| | | | |
|----------|----------|--------|--------------------|
| % Cobble | % Gravel | % Sand | % Silt & Clay Size |
| — | 0.1 | 13.5 | 86.4 |

| Sieve Name | Sieve Size, mm | Percent Finer | Spec. Percent | Complies |
|------------|----------------|---------------|---------------|----------|
| #4 | 4.75 | 100 | | |
| #10 | 2.00 | 100 | | |
| #20 | 0.85 | 100 | | |
| #40 | 0.42 | 99 | | |
| #60 | 0.25 | 98 | | |
| #100 | 0.15 | 96 | | |
| #140 | 0.11 | 93 | | |
| #200 | 0.075 | 86 | | |
| | | | | |
| | | | | |

| <u>Coefficients</u> | |
|-----------------------|-----------------------|
| D ₈₅ = N/A | D ₃₀ = N/A |
| D ₆₀ = N/A | D ₁₅ = N/A |
| D ₅₀ = N/A | D ₁₀ = N/A |
| C _u = N/A | C _c = N/A |

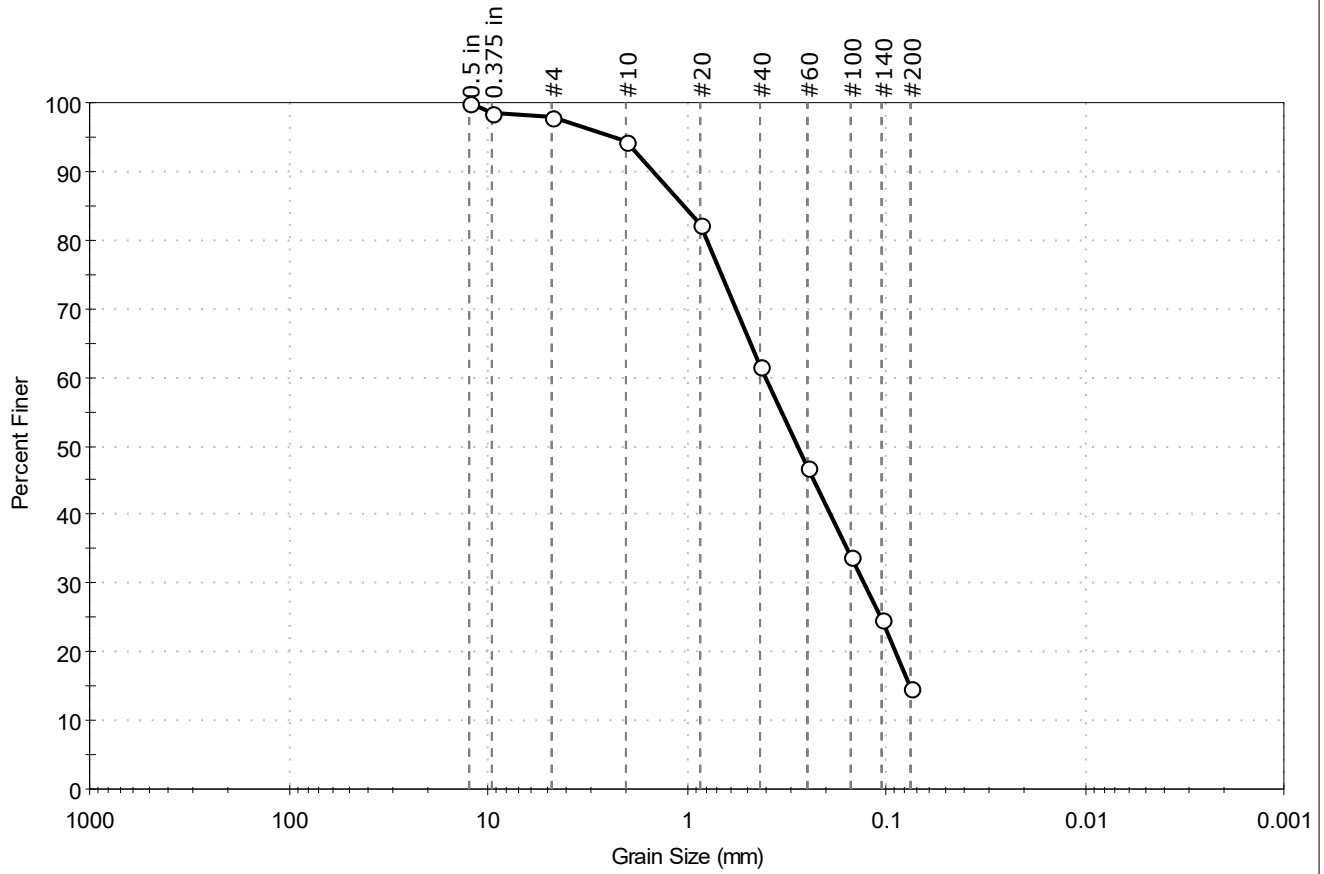
| <u>Classification</u> | |
|-----------------------|-----------------------|
| ASTM | N/A |
| AASHTO | Silty Soils (A-4 (0)) |

| <u>Sample/Test Description</u> |
|----------------------------------|
| Sand/Gravel Particle Shape : --- |
| Sand/Gravel Hardness : --- |



| | | | |
|---|-------------------------|----------------------|------------------------|
| Client: Langan Engineering | Project: Project Hudson | Location: Hudson, NH | Project No: GTX-311848 |
| Boring ID: A-B-BOR-40 | Sample Type: jar | Tested By: ckg | Checked By: jsc |
| Sample ID: S-4 | Test Date: 07/09/20 | Test Id: 562934 | |
| Depth: 6-8 ft | | | |
| Test Comment: --- | | | |
| Visual Description: Moist, yellowish brown silty sand | | | |
| Sample Comment: --- | | | |

Particle Size Analysis - ASTM D6913



| | | | |
|----------|----------|--------|--------------------|
| % Cobble | % Gravel | % Sand | % Silt & Clay Size |
| — | 2.0 | 83.3 | 14.7 |

| Sieve Name | Sieve Size, mm | Percent Finer | Spec. Percent | Complies |
|------------|----------------|---------------|---------------|----------|
| 0.5 in | 12.50 | 100 | | |
| 0.375 in | 9.50 | 99 | | |
| #4 | 4.75 | 98 | | |
| #10 | 2.00 | 94 | | |
| #20 | 0.85 | 82 | | |
| #40 | 0.42 | 62 | | |
| #60 | 0.25 | 47 | | |
| #100 | 0.15 | 34 | | |
| #140 | 0.11 | 25 | | |
| #200 | 0.075 | 15 | | |
| | | | | |
| | | | | |

| <u>Coefficients</u> | |
|-----------------------------|-----------------------------|
| D ₈₅ = 1.0371 mm | D ₃₀ = 0.1292 mm |
| D ₆₀ = 0.4010 mm | D ₁₅ = 0.0757 mm |
| D ₅₀ = 0.2793 mm | D ₁₀ = N/A |
| C _u = N/A | C _c = N/A |

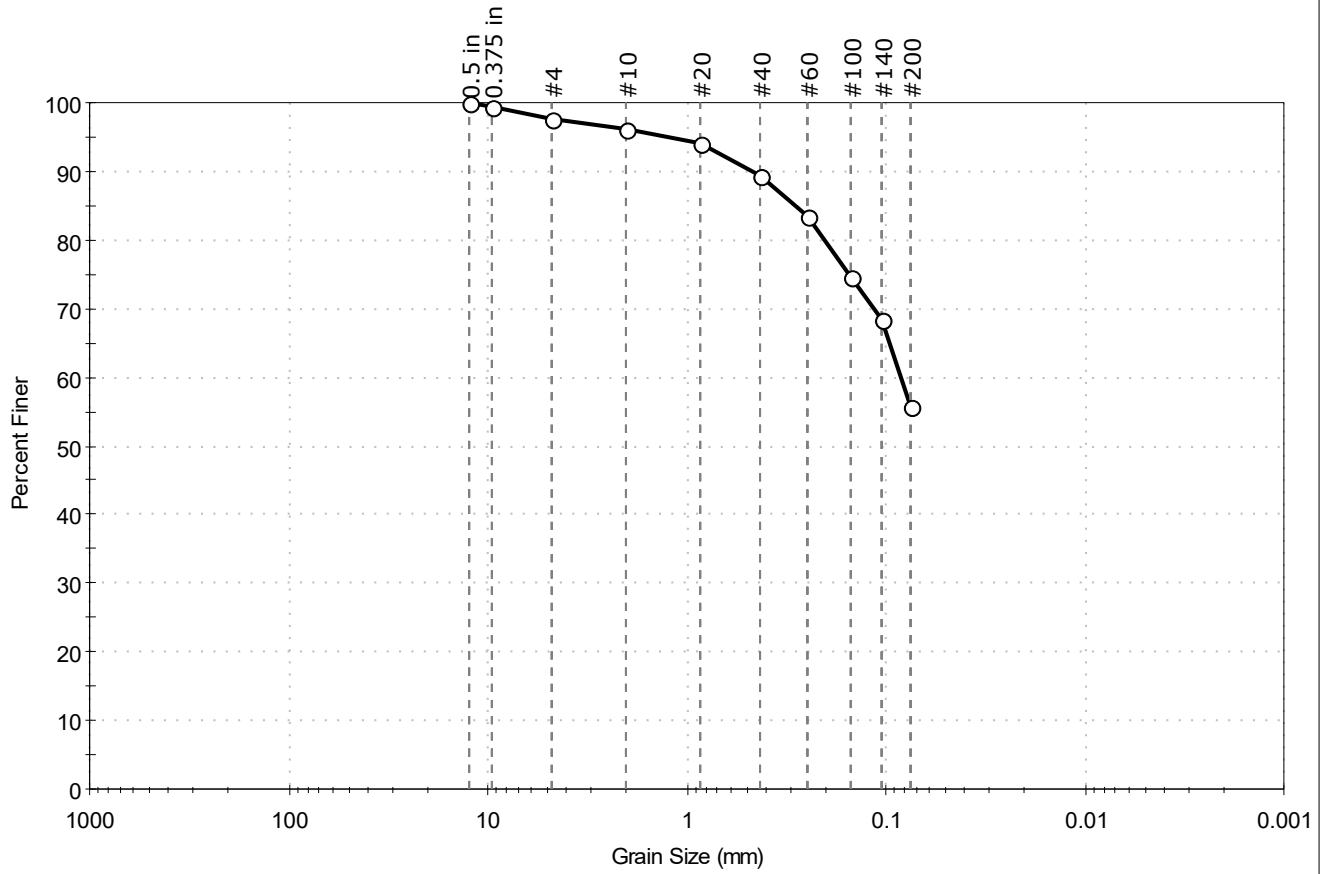
| <u>Classification</u> | |
|-----------------------|-----------------------------------|
| ASTM | N/A |
| AASHTO | Silty Gravel and Sand (A-2-4 (0)) |

| <u>Sample/Test Description</u> |
|--------------------------------------|
| Sand/Gravel Particle Shape : ANGULAR |
| Sand/Gravel Hardness : HARD |



| | | | |
|---|-------------------------|----------------------|------------------------|
| Client: Langan Engineering | Project: Project Hudson | Location: Hudson, NH | Project No: GTX-311848 |
| Boring ID: A-B-BOR-42 | Sample Type: jar | Tested By: ckg | Checked By: bfs |
| Sample ID: S-5 | Test Date: 06/10/20 | Test Id: 559411 | |
| Depth: 8-10 ft | | | |
| Test Comment: --- | | | |
| Visual Description: Moist, yellowish brown sandy silt | | | |
| Sample Comment: --- | | | |

Particle Size Analysis - ASTM D6913



| | | | |
|----------|----------|--------|--------------------|
| % Cobble | % Gravel | % Sand | % Silt & Clay Size |
| — | 2.3 | 41.9 | 55.8 |

| Sieve Name | Sieve Size, mm | Percent Finer | Spec. Percent | Complies |
|------------|----------------|---------------|---------------|----------|
| 0.5 in | 12.50 | 100 | | |
| 0.375 in | 9.50 | 99 | | |
| #4 | 4.75 | 98 | | |
| #10 | 2.00 | 96 | | |
| #20 | 0.85 | 94 | | |
| #40 | 0.42 | 89 | | |
| #60 | 0.25 | 84 | | |
| #100 | 0.15 | 74 | | |
| #140 | 0.11 | 69 | | |
| #200 | 0.075 | 56 | | |
| | | | | |
| | | | | |

| <u>Coefficients</u> | |
|-----------------------------|-----------------------|
| D ₈₅ = 0.2846 mm | D ₃₀ = N/A |
| D ₆₀ = 0.0841 mm | D ₁₅ = N/A |
| D ₅₀ = N/A | D ₁₀ = N/A |
| C _u = N/A | C _c = N/A |

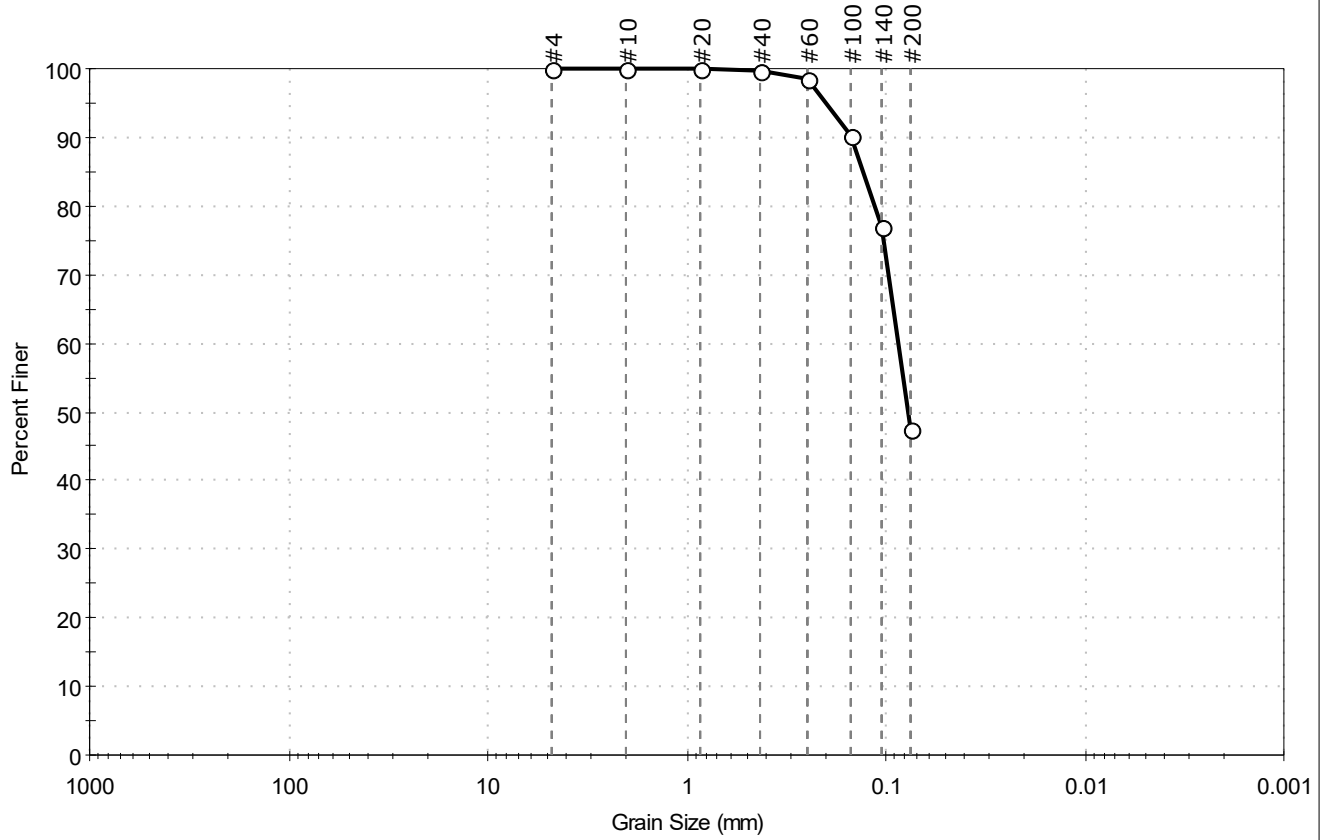
| <u>Classification</u> | |
|-----------------------|-----------------------|
| ASTM | N/A |
| AASHTO | Silty Soils (A-4 (0)) |

| <u>Sample/Test Description</u> |
|----------------------------------|
| Sand/Gravel Particle Shape : --- |
| Sand/Gravel Hardness : --- |



| | | |
|----------------------------|---|------------------------|
| Client: Langan Engineering | Project: Project Hudson | Project No: GTX-311848 |
| Location: Hudson, NH | Boring ID: A-B-BOR-105 | Sample Type: jar |
| Sample ID: S-3 | Test Date: 07/09/20 | Tested By: ckg |
| Depth: 4-6 ft | Test Id: 562927 | Checked By: jsc |
| Test Comment: --- | Visual Description: Moist, light yellowish brown silty sand | Sample Comment: --- |

Particle Size Analysis - ASTM D6913



| | | | |
|----------|----------|--------|--------------------|
| % Cobble | % Gravel | % Sand | % Silt & Clay Size |
| — | 0.1 | 52.5 | 47.4 |

| Sieve Name | Sieve Size, mm | Percent Finer | Spec. Percent | Complies |
|------------|----------------|---------------|---------------|----------|
| #4 | 4.75 | 100 | | |
| #10 | 2.00 | 100 | | |
| #20 | 0.85 | 100 | | |
| #40 | 0.42 | 100 | | |
| #60 | 0.25 | 99 | | |
| #100 | 0.15 | 90 | | |
| #140 | 0.11 | 77 | | |
| #200 | 0.075 | 47 | | |
| | | | | |
| | | | | |

| <u>Coefficients</u> | |
|-----------------------------|-----------------------|
| D ₈₅ = 0.1308 mm | D ₃₀ = N/A |
| D ₆₀ = 0.0869 mm | D ₁₅ = N/A |
| D ₅₀ = 0.0773 mm | D ₁₀ = N/A |
| C _u = N/A | C _c = N/A |

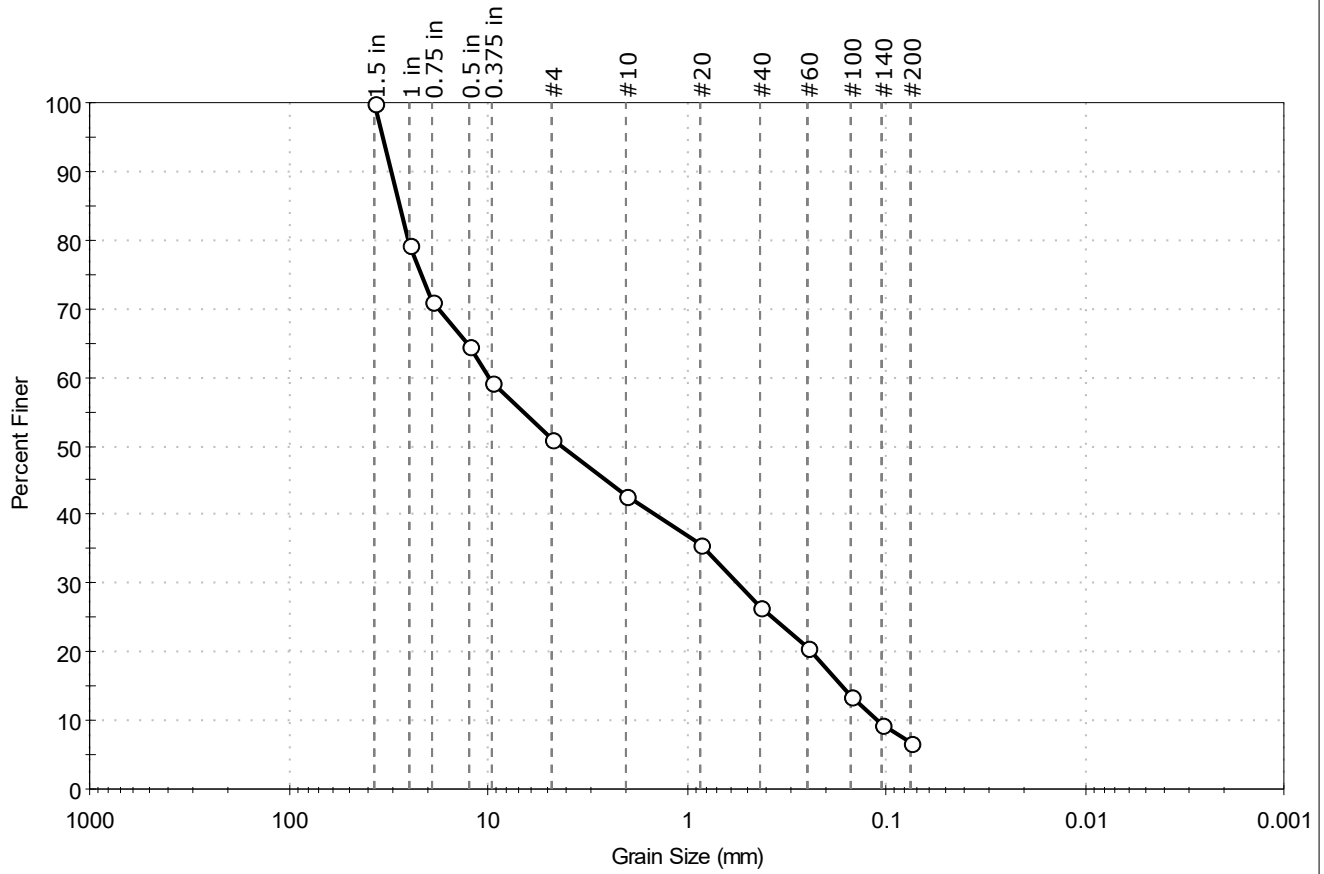
| <u>Classification</u> | |
|-----------------------|-----------------------|
| ASTM | N/A |
| AASHTO | Silty Soils (A-4 (0)) |

| <u>Sample/Test Description</u> |
|----------------------------------|
| Sand/Gravel Particle Shape : --- |
| Sand/Gravel Hardness : --- |



| | | | |
|----------------------------|---|----------------------|------------------------|
| Client: Langan Engineering | Project: Project Hudson | Location: Hudson, NH | Project No: GTX-311848 |
| Boring ID: A-S-BOR-06 | Sample Type: jar | Tested By: ckg | Checked By: bfs |
| Sample ID: S-8 | Test Date: 06/22/20 | Test Id: 559927 | |
| Depth: 17-19 ft | | | |
| Test Comment: --- | Visual Description: Moist, dark brown gravel with silt and sand | | |
| Sample Comment: --- | | | |

Particle Size Analysis - ASTM D6913



| | | | |
|----------|----------|--------|--------------------|
| % Cobble | % Gravel | % Sand | % Silt & Clay Size |
| — | 48.9 | 44.2 | 6.9 |

| Sieve Name | Sieve Size, mm | Percent Finer | Spec. Percent | Complies |
|------------|----------------|---------------|---------------|----------|
| 1.5 in | 37.50 | 100 | | |
| 1 in | 25.00 | 79 | | |
| 0.75 in | 19.00 | 71 | | |
| 0.5 in | 12.50 | 64 | | |
| 0.375 in | 9.50 | 59 | | |
| #4 | 4.75 | 51 | | |
| #10 | 2.00 | 43 | | |
| #20 | 0.85 | 36 | | |
| #40 | 0.42 | 27 | | |
| #60 | 0.25 | 21 | | |
| #100 | 0.15 | 13 | | |
| #140 | 0.11 | 9 | | |
| #200 | 0.075 | 6.9 | | |
| | | | | |
| | | | | |

| Coefficients | |
|------------------------------|-----------------------------|
| D ₈₅ = 27.9494 mm | D ₃₀ = 0.5490 mm |
| D ₆₀ = 9.9197 mm | D ₁₅ = 0.1680 mm |
| D ₅₀ = 4.2380 mm | D ₁₀ = 0.1117 mm |
| C _u = 88.807 | C _c = 0.272 |

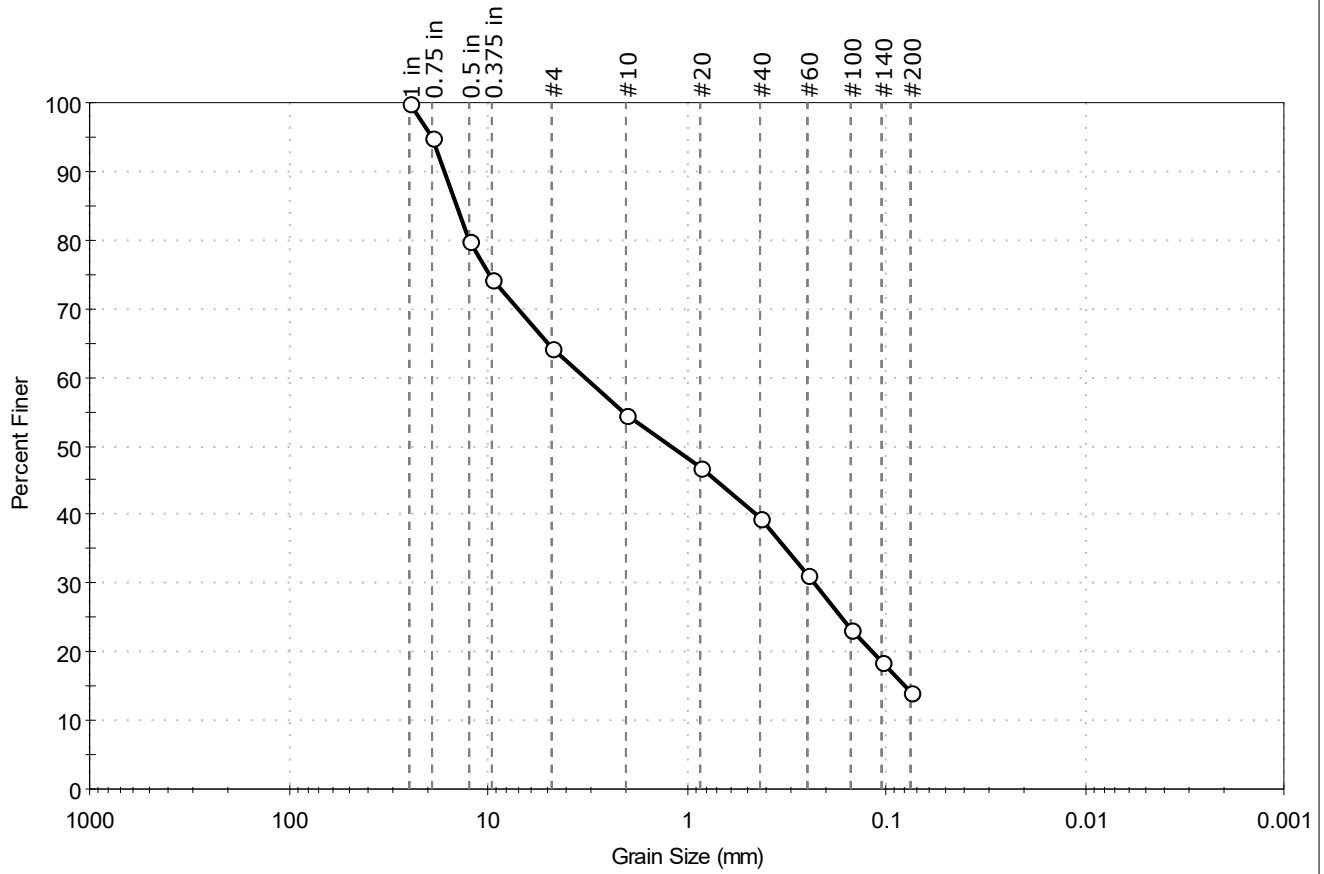
| Classification | |
|----------------|--|
| ASTM | N/A |
| AASHTO | Stone Fragments, Gravel and Sand (A-1-a (1)) |

| Sample/Test Description |
|--------------------------------------|
| Sand/Gravel Particle Shape : ANGULAR |
| Sand/Gravel Hardness : HARD |



| | | | |
|----------------------------|---|----------------------|------------------------|
| Client: Langan Engineering | Project: Project Hudson | Location: Hudson, NH | Project No: GTX-311848 |
| Boring ID: A-S-BOR-21 | Sample Type: jar | Tested By: ckg | Checked By: bfs |
| Sample ID: S-5 | Test Date: 06/22/20 | Test Id: 559922 | |
| Depth: 8-10 ft | | | |
| Test Comment: --- | Visual Description: Moist, light yellowish brown silty sand with gravel | | |
| Sample Comment: --- | | | |

Particle Size Analysis - ASTM D6913



| | | | |
|----------|----------|--------|--------------------|
| % Cobble | % Gravel | % Sand | % Silt & Clay Size |
| — | 35.7 | 50.1 | 14.2 |

| Sieve Name | Sieve Size, mm | Percent Finer | Spec. Percent | Complies |
|------------|----------------|---------------|---------------|----------|
| 1 in | 25.00 | 100 | | |
| 0.75 in | 19.00 | 95 | | |
| 0.5 in | 12.50 | 80 | | |
| 0.375 in | 9.50 | 74 | | |
| #4 | 4.75 | 64 | | |
| #10 | 2.00 | 55 | | |
| #20 | 0.85 | 47 | | |
| #40 | 0.42 | 39 | | |
| #60 | 0.25 | 31 | | |
| #100 | 0.15 | 23 | | |
| #140 | 0.11 | 19 | | |
| #200 | 0.075 | 14 | | |
| | | | | |
| | | | | |

| Coefficients | |
|------------------------------|-----------------------------|
| D ₈₅ = 14.3537 mm | D ₃₀ = 0.2295 mm |
| D ₆₀ = 3.2346 mm | D ₁₅ = 0.0796 mm |
| D ₅₀ = 1.1942 mm | D ₁₀ = N/A |
| C _u = N/A | C _c = N/A |

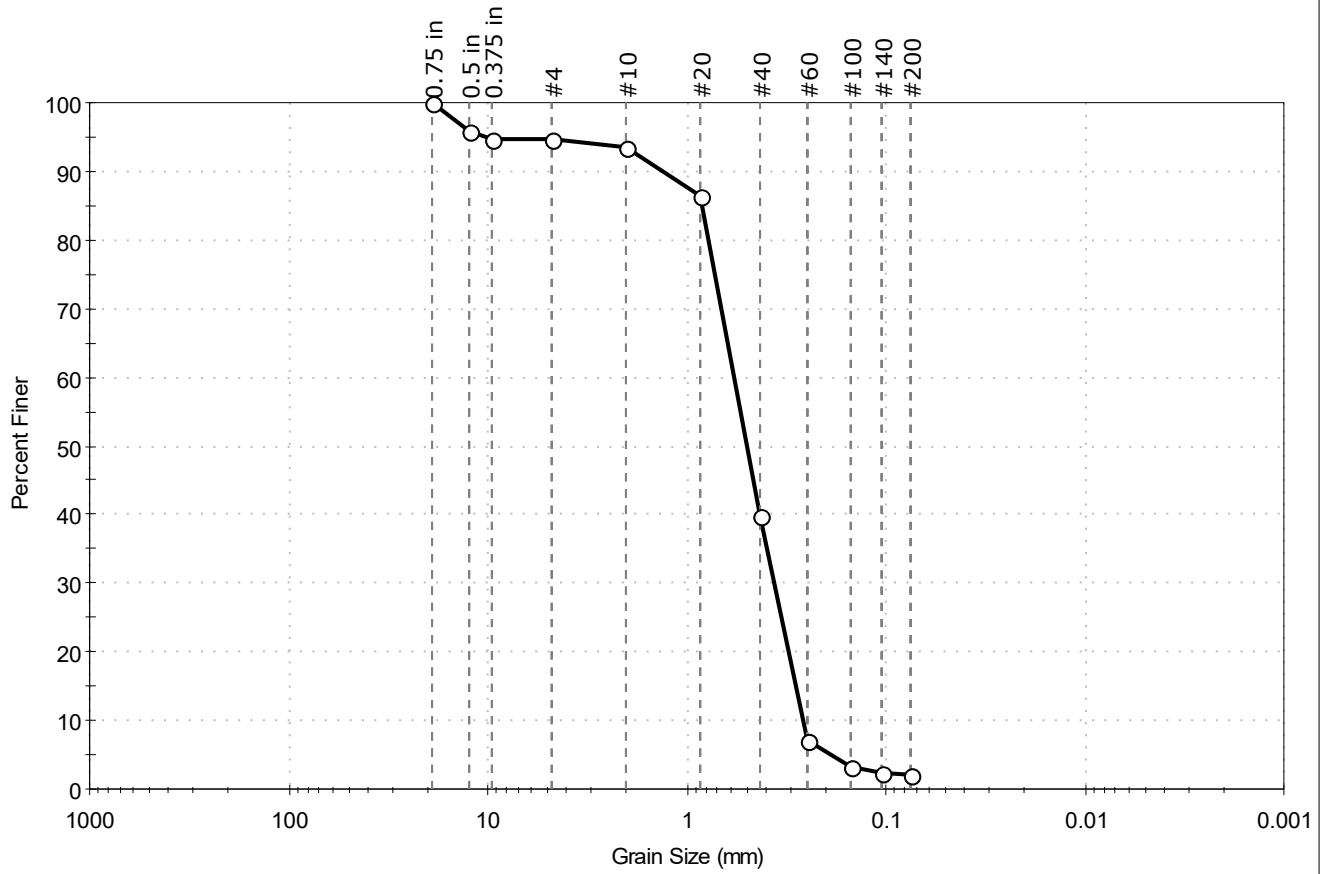
| Classification | |
|-----------------------|--|
| ASTM | N/A |
| AASHTO | Stone Fragments, Gravel and Sand (A-1-b (0)) |

| Sample/Test Description |
|--------------------------------------|
| Sand/Gravel Particle Shape : ANGULAR |
| Sand/Gravel Hardness : HARD |



| | | | |
|---|-------------------------|----------------------|------------------------|
| Client: Langan Engineering | Project: Project Hudson | Location: Hudson, NH | Project No: GTX-311848 |
| Boring ID: A-S-BOR-29 | Sample Type: jar | Tested By: ckg | Checked By: bfs |
| Sample ID: S-2 | Test Date: 06/10/20 | Test Id: 559413 | |
| Depth: 2-4 ft | | | |
| Test Comment: --- | | | |
| Visual Description: Moist, light olive brown sand | | | |
| Sample Comment: --- | | | |

Particle Size Analysis - ASTM D6913



| | | | |
|----------|----------|--------|--------------------|
| % Cobble | % Gravel | % Sand | % Silt & Clay Size |
| — | 5.2 | 92.8 | 2.0 |

| Sieve Name | Sieve Size, mm | Percent Finer | Spec. Percent | Complies |
|------------|----------------|---------------|---------------|----------|
| 0.75 in | 19.00 | 100 | | |
| 0.5 in | 12.50 | 96 | | |
| 0.375 in | 9.50 | 95 | | |
| #4 | 4.75 | 95 | | |
| #10 | 2.00 | 94 | | |
| #20 | 0.85 | 86 | | |
| #40 | 0.42 | 40 | | |
| #60 | 0.25 | 7 | | |
| #100 | 0.15 | 3 | | |
| #140 | 0.11 | 2 | | |
| #200 | 0.075 | 2.0 | | |
| | | | | |
| | | | | |

| <u>Coefficients</u> | |
|-----------------------------|-----------------------------|
| D ₈₅ = 0.8313 mm | D ₃₀ = 0.3621 mm |
| D ₆₀ = 0.5733 mm | D ₁₅ = 0.2838 mm |
| D ₅₀ = 0.4941 mm | D ₁₀ = 0.2617 mm |
| C _u = 2.191 | C _c = 0.874 |

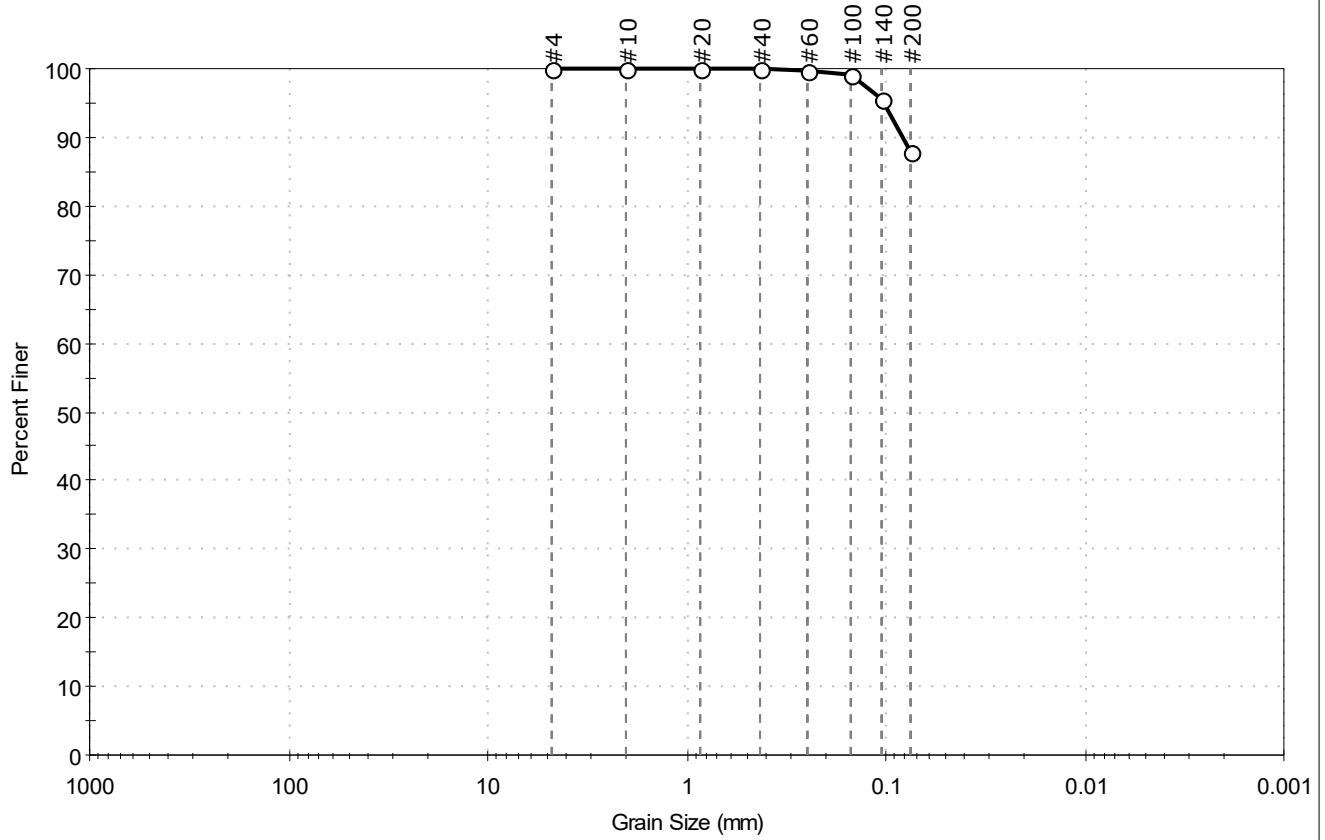
| <u>Classification</u> | |
|-----------------------|--|
| <u>ASTM</u> | Poorly graded SAND (SP) |
| <u>AASHTO</u> | Stone Fragments, Gravel and Sand (A-1-b (1)) |

| <u>Sample/Test Description</u> | |
|--------------------------------|---------|
| Sand/Gravel Particle Shape : | ANGULAR |
| Sand/Gravel Hardness : | HARD |



| | | | |
|---|-------------------------|----------------------|------------------------|
| Client: Langan Engineering | Project: Project Hudson | Location: Hudson, NH | Project No: GTX-311848 |
| Boring ID: A-S-BOR-31 | Sample Type: jar | Tested By: ckg | Checked By: bfs |
| Sample ID: S-3 | Test Date: 06/22/20 | Test Id: 559925 | |
| Depth: 4-6 ft | | | |
| Test Comment: --- | | | |
| Visual Description: Moist, light yellowish brown silt | | | |
| Sample Comment: --- | | | |

Particle Size Analysis - ASTM D6913



| | | | |
|----------|----------|--------|--------------------|
| % Cobble | % Gravel | % Sand | % Silt & Clay Size |
| — | 0.0 | 12.1 | 87.9 |

| Sieve Name | Sieve Size, mm | Percent Finer | Spec. Percent | Complies |
|------------|----------------|---------------|---------------|----------|
| #4 | 4.75 | 100 | | |
| #10 | 2.00 | 100 | | |
| #20 | 0.85 | 100 | | |
| #40 | 0.42 | 100 | | |
| #60 | 0.25 | 100 | | |
| #100 | 0.15 | 99 | | |
| #140 | 0.11 | 96 | | |
| #200 | 0.075 | 88 | | |
| | | | | |
| | | | | |

| <u>Coefficients</u> | |
|-----------------------|-----------------------|
| D ₈₅ = N/A | D ₃₀ = N/A |
| D ₆₀ = N/A | D ₁₅ = N/A |
| D ₅₀ = N/A | D ₁₀ = N/A |
| C _u = N/A | C _c = N/A |

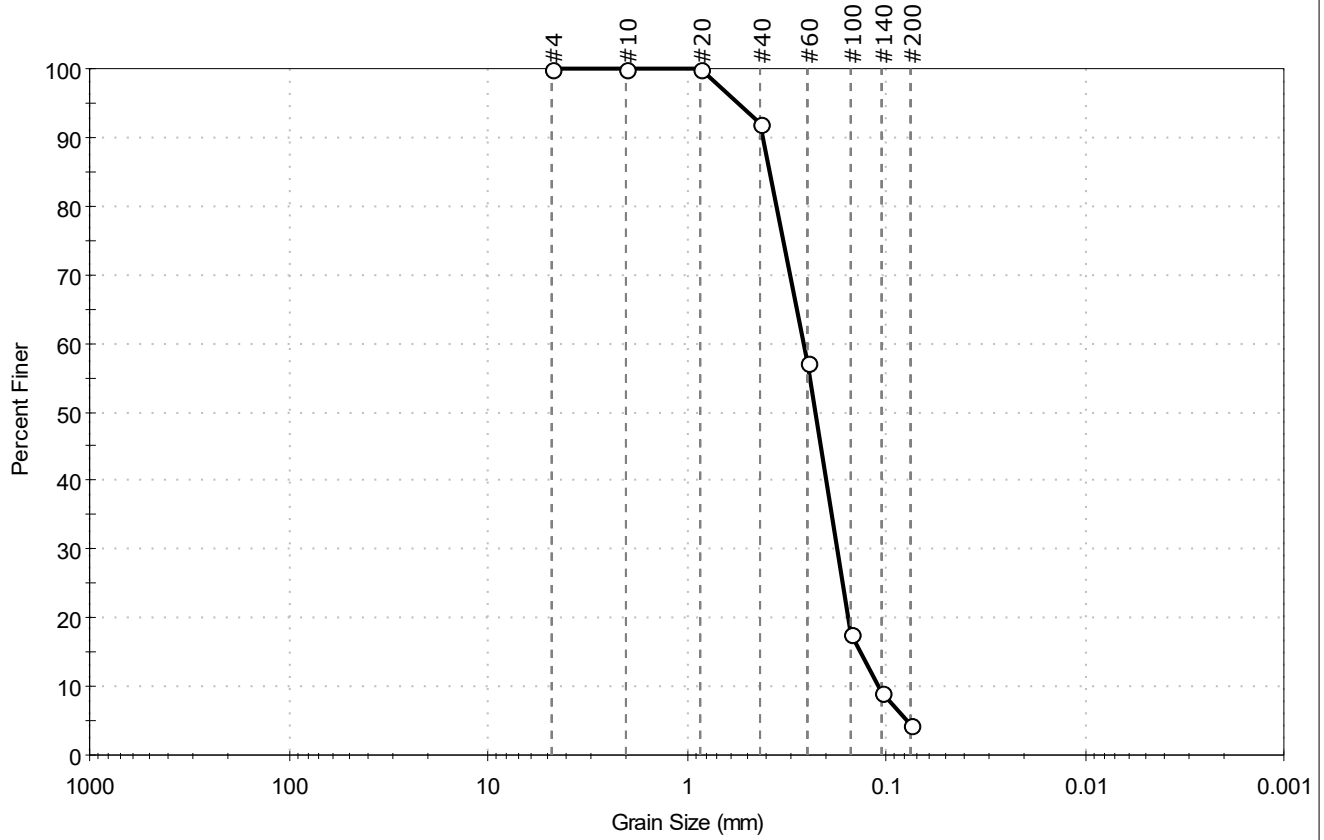
| <u>Classification</u> | |
|-----------------------|-----------------------|
| ASTM | N/A |
| AASHTO | Silty Soils (A-4 (0)) |

| <u>Sample/Test Description</u> |
|----------------------------------|
| Sand/Gravel Particle Shape : --- |
| Sand/Gravel Hardness : --- |



| | | |
|----------------------------|---|------------------------|
| Client: Langan Engineering | Project: Project Hudson | Project No: GTX-311848 |
| Location: Hudson, NH | Boring ID: A-S-BOR-33 | Sample Type: jar |
| Sample ID: S-4 | Test Date: 06/22/20 | Tested By: ckg |
| Depth: 6-8 ft | Test Id: 559926 | Checked By: bfs |
| Test Comment: --- | Visual Description: Moist, light yellowish brown sand | Sample Comment: --- |

Particle Size Analysis - ASTM D6913



| | | | |
|----------|----------|--------|--------------------|
| % Cobble | % Gravel | % Sand | % Silt & Clay Size |
| — | 0.0 | 95.5 | 4.5 |

| Sieve Name | Sieve Size, mm | Percent Finer | Spec. Percent | Complies |
|------------|----------------|---------------|---------------|----------|
| #4 | 4.75 | 100 | | |
| #10 | 2.00 | 100 | | |
| #20 | 0.85 | 100 | | |
| #40 | 0.42 | 92 | | |
| #60 | 0.25 | 57 | | |
| #100 | 0.15 | 18 | | |
| #140 | 0.11 | 9 | | |
| #200 | 0.075 | 4.5 | | |
| | | | | |
| | | | | |

Coefficients

| | |
|-----------------------------|-----------------------------|
| D ₈₅ = 0.3819 mm | D ₃₀ = 0.1756 mm |
| D ₆₀ = 0.2608 mm | D ₁₅ = 0.1339 mm |
| D ₅₀ = 0.2276 mm | D ₁₀ = 0.1096 mm |
| C _u = 2.380 | C _c = 1.079 |

Classification

ASTM Poorly graded SAND (SP)

AASHTO Fine Sand (A-3 (1))

Sample/Test Description

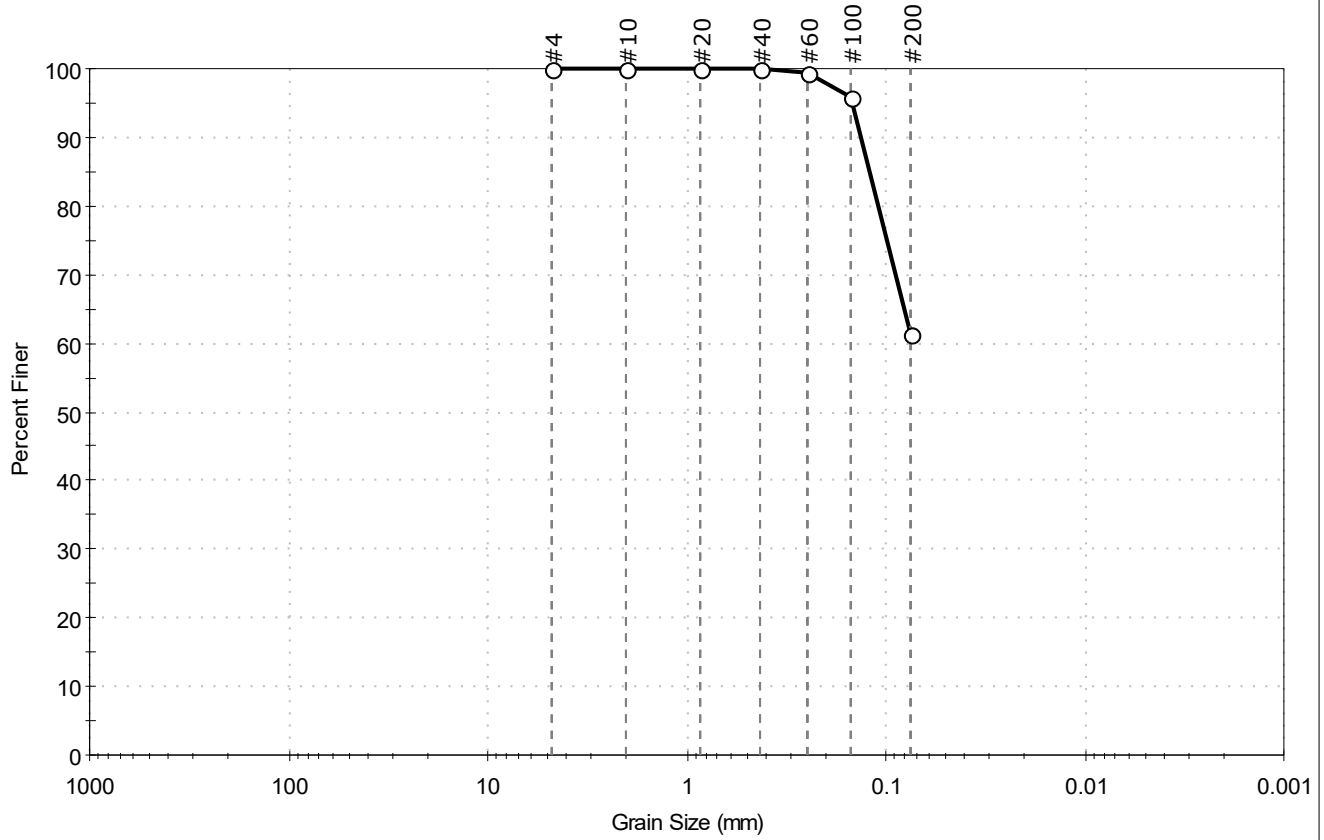
Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---



| | | |
|----------------------------|---|------------------------|
| Client: Langan Engineering | Project: Project Hudson | Project No: GTX-311848 |
| Location: Hudson, NH | Boring ID: A-S-TP-02 | Sample Type: bag |
| Tested By: ckg | Sample ID: G-1 | Test Date: 08/03/20 |
| Checked By: bfs | Depth: 5-5.5 ft | Test Id: 567303 |
| Test Comment: --- | Visual Description: Moist, light olive brown sandy silt | Sample Comment: --- |

Particle Size Analysis - ASTM D422



| | | | |
|----------|----------|--------|--------------------|
| % Cobble | % Gravel | % Sand | % Silt & Clay Size |
| — | 0.0 | 38.5 | 61.5 |

| Sieve Name | Sieve Size, mm | Percent Finer | Spec. Percent | Complies |
|------------|----------------|---------------|---------------|----------|
| #4 | 4.75 | 100 | | |
| #10 | 2.00 | 100 | | |
| #20 | 0.85 | 100 | | |
| #40 | 0.42 | 100 | | |
| #60 | 0.25 | 100 | | |
| #100 | 0.15 | 96 | | |
| #200 | 0.075 | 61 | | |
| | | | | |
| | | | | |

| <u>Coefficients</u> | |
|-----------------------------|-----------------------|
| D ₈₅ = 0.1204 mm | D ₃₀ = N/A |
| D ₆₀ = N/A | D ₁₅ = N/A |
| D ₅₀ = N/A | D ₁₀ = N/A |
| C _u = N/A | C _c = N/A |

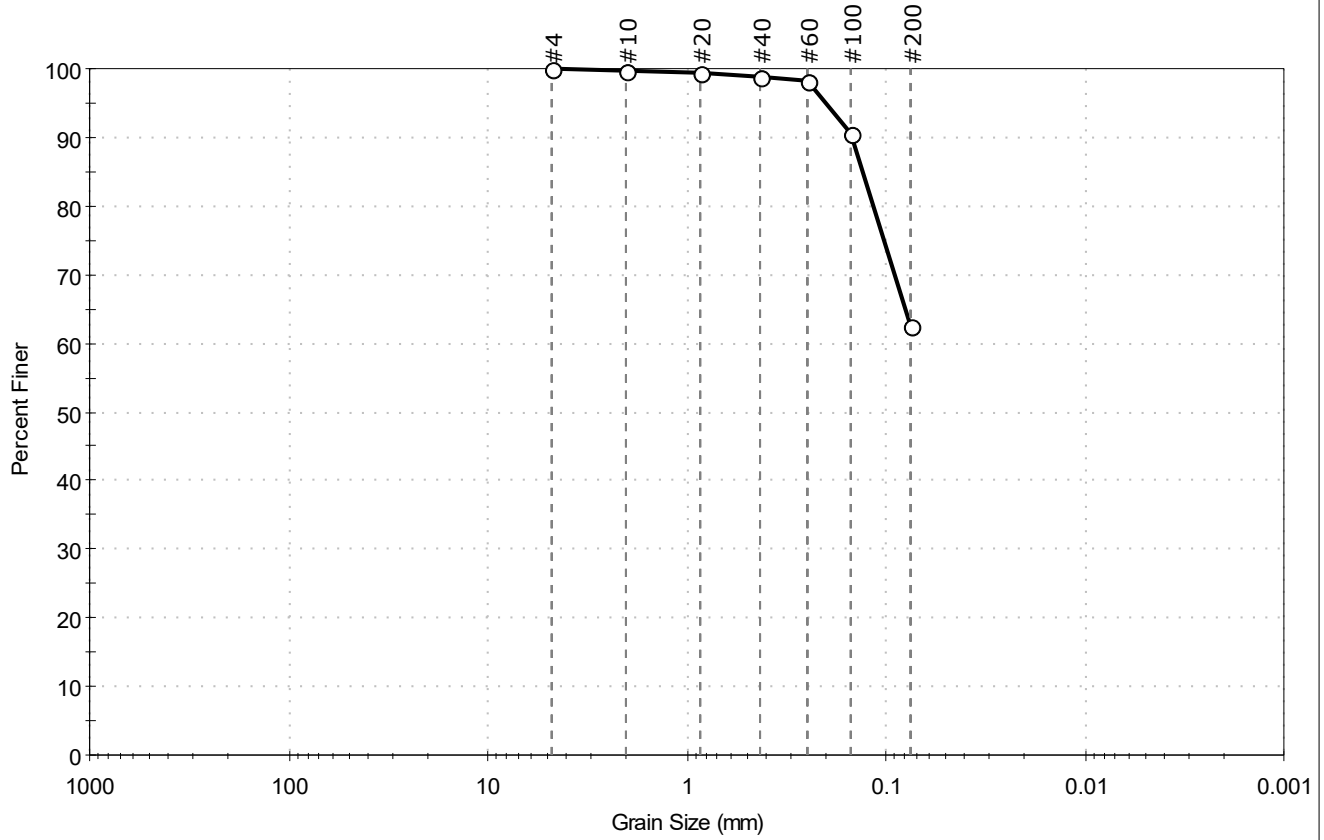
| <u>Classification</u> | |
|-----------------------|-----------------------|
| ASTM | N/A |
| AASHTO | Silty Soils (A-4 (0)) |

| <u>Sample/Test Description</u> |
|----------------------------------|
| Sand/Gravel Particle Shape : --- |
| Sand/Gravel Hardness : --- |



| | | |
|----------------------------|---|------------------------|
| Client: Langan Engineering | Project: Project Hudson | Project No: GTX-311848 |
| Location: Hudson, NH | Boring ID: A-S-TP-21 | Sample Type: bag |
| Tested By: ckg | Sample ID: G-1 | Test Date: 08/03/20 |
| Checked By: bfs | Depth: 3-4 ft | Test Id: 567304 |
| Test Comment: --- | Visual Description: Moist, light olive brown sandy silt | Sample Comment: --- |

Particle Size Analysis - ASTM D422



| | | | |
|----------|----------|--------|--------------------|
| % Cobble | % Gravel | % Sand | % Silt & Clay Size |
| — | 0.0 | 37.5 | 62.5 |

| Sieve Name | Sieve Size, mm | Percent Finer | Spec. Percent | Complies |
|------------|----------------|---------------|---------------|----------|
| #4 | 4.75 | 100 | | |
| #10 | 2.00 | 100 | | |
| #20 | 0.85 | 99 | | |
| #40 | 0.42 | 99 | | |
| #60 | 0.25 | 98 | | |
| #100 | 0.15 | 90 | | |
| #200 | 0.075 | 62 | | |
| | | | | |
| | | | | |

| <u>Coefficients</u> | |
|-----------------------------|-----------------------|
| D ₈₅ = 0.1311 mm | D ₃₀ = N/A |
| D ₆₀ = N/A | D ₁₅ = N/A |
| D ₅₀ = N/A | D ₁₀ = N/A |
| C _u = N/A | C _c = N/A |

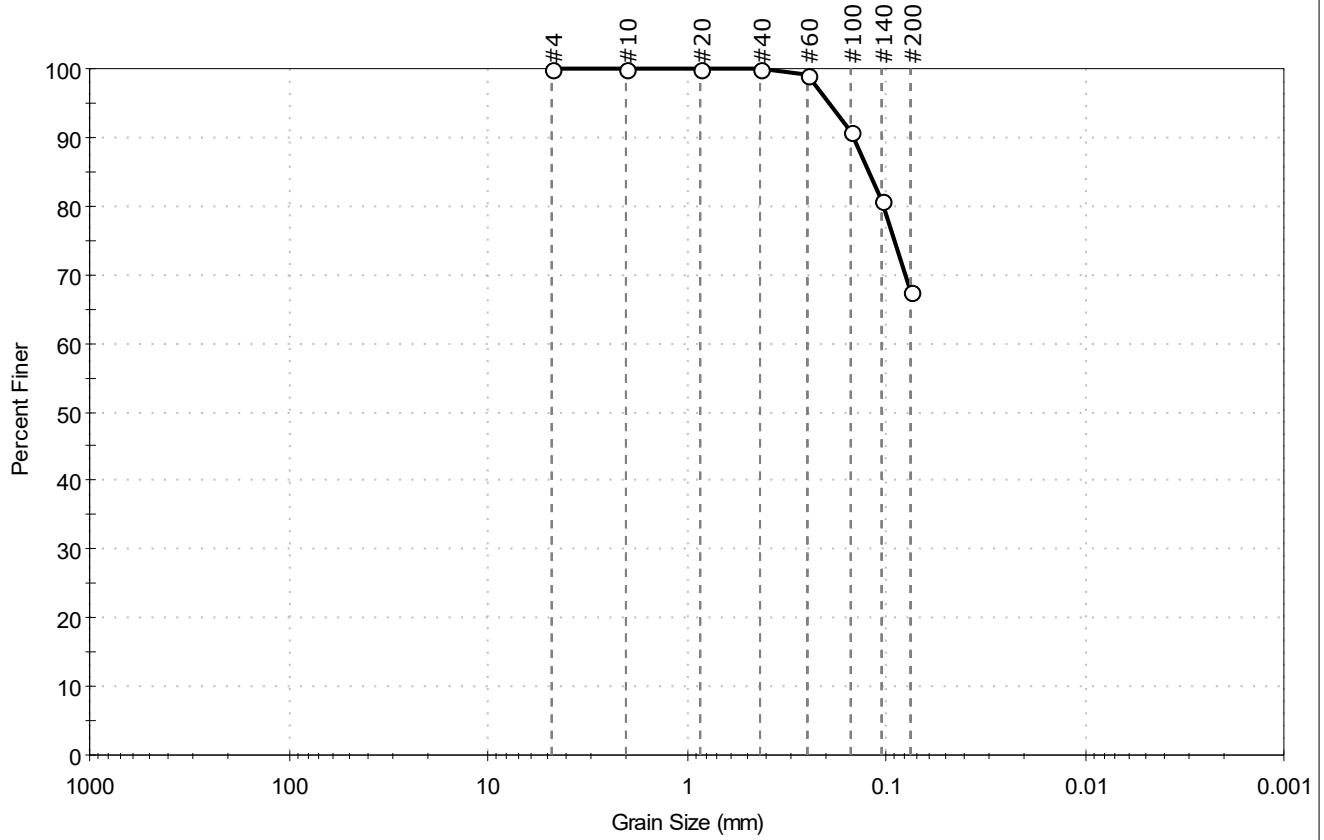
| <u>Classification</u> | |
|-----------------------|-----------------------|
| ASTM | N/A |
| AASHTO | Silty Soils (A-4 (0)) |

| <u>Sample/Test Description</u> |
|----------------------------------|
| Sand/Gravel Particle Shape : --- |
| Sand/Gravel Hardness : --- |



| | | |
|----------------------------|---|------------------------|
| Client: Langan Engineering | Project: Project Hudson | Project No: GTX-311848 |
| Location: Hudson, NH | Boring ID: A-S-TP-22 | Sample Type: bag |
| Tested By: ckg | Sample ID: G-1 | Test Date: 08/03/20 |
| Checked By: bfs | Depth: 4-5 ft | Test Id: 567305 |
| Test Comment: --- | Visual Description: Moist, yellowish brown sandy silt | Sample Comment: --- |

Particle Size Analysis - ASTM D422



| | | | |
|----------|----------|--------|--------------------|
| % Cobble | % Gravel | % Sand | % Silt & Clay Size |
| — | 0.0 | 32.5 | 67.5 |


| Sieve Name | Sieve Size, mm | Percent Finer | Spec. Percent | Complies |
|------------|----------------|---------------|---------------|----------|
| #4 | 4.75 | 100 | | |
| #10 | 2.00 | 100 | | |
| #20 | 0.85 | 100 | | |
| #40 | 0.42 | 100 | | |
| #60 | 0.25 | 99 | | |
| #100 | 0.15 | 91 | | |
| #140 | 0.11 | 81 | | |
| #200 | 0.075 | 68 | | |
| | | | | |
| | | | | |

| <u>Coefficients</u> | |
|-----------------------------|-----------------------|
| D ₈₅ = 0.1224 mm | D ₃₀ = N/A |
| D ₆₀ = N/A | D ₁₅ = N/A |
| D ₅₀ = N/A | D ₁₀ = N/A |
| C _u = N/A | C _c = N/A |

| <u>Classification</u> | |
|-----------------------|-----------------------|
| ASTM | N/A |
| AASHTO | Silty Soils (A-4 (0)) |

| <u>Sample/Test Description</u> |
|----------------------------------|
| Sand/Gravel Particle Shape : --- |
| Sand/Gravel Hardness : --- |




 GEOTECH EXPRESS INCORPORATED
 125 NAGOG PARK
 ACTON MA 01720-3451
 USA

Analysis No. TS-A2008798
 Report Date 10 July 2020
 Date Sampled 06 July 2020
 Date Received 09 July 2020
 Where Sampled Acton, MA USA
 Sampled By Client

This is to attest that we have examined: Soil for Project Name: Project Hudson; Site Location Hudson, NH; Job Number: GTX-311848

When examined to the applicable requirements of:

- ASTM D 512-12 “Standard Test Methods for Chloride Ion in Water” Method B
- ASTM D 516-16 “Standard Test Method for Sulfate Ion in Water”

Results:

ASTM D 512 – Chloride Method B

| Sample | | Results | | Detection Limit |
|-----------|------------|-------------|----------------|-----------------|
| | | ppm (mg/kg) | % ¹ | |
| A-B-TP-04 | | <10. | <0.0010 | 10. |
| S-1 | 1 – 1.5' | | | |
| A-B-TP-09 | | <10. | <0.0010 | |
| S-1 | 1 – 1.5' | | | |
| A-B-TP-14 | | <10. | <0.0010 | |
| S-1 | 2 – 2.5' | | | |
| A-B-TP-19 | | <10. | <0.0010 | |
| S-1 | 2.5 – 3.5' | | | |

NOTE: ¹Percent by weight as received.

CERTIFICATE OF ANALYSIS

ASTM D 516 – Sulfates (Soluble)

| Sample | | Results | | Detection Limit |
|-----------|------------|-------------|----------------|-----------------|
| | | ppm (mg/kg) | % ¹ | |
| A-B-TP-04 | | <10. | <0.0010 | 10. |
| S-1 | 1 – 1.5' | | | |
| A-B-TP-09 | | <10. | <0.0010 | |
| S-1 | 1 – 1.5' | | | |
| A-B-TP-14 | | <10. | <0.0010 | |
| S-1 | 2 – 2.5' | | | |
| A-B-TP-19 | | <10. | <0.0010 | |
| S-1 | 2.5 – 3.5' | | | |

NOTE: ¹Percent by weight as received

END OF ANALYSIS

USEPA Laboratory ID UT00930



Merrill Gee P.E. – Engineer in Charge

APPENDIX H
INFILTRATION TEST LOGS

LANGAN

INFILTRATION TESTS

A-IT-01 performed in A-S-TP-01

| | | | | | |
|------------------|---|--------------------------------------|----------------------------|---------------------------------|------------------------|
| PROJECT | Project Hudson | PROJECT NO. | 151010101 | | |
| LOCATION | 59 Steele Road, Hudson, NH | DATE | 6/24/2020 to 6/25/2020 | | |
| INSPECTOR | Olivia Chasse | WEATHER | Rain, 70s°F/Sunny, 80s°F | | |
| PRESOAK | TIME | DEPTH OF WATER IN HOLE (INCH) | ELEVATION AND DATUM | | |
| | Start | 14:10 | 24 | Surface Elevation | Approx. 135.5 (NGVD29) |
| | End | 14:36 | 2 | Top of Hole Elevation | Approx. 130.5 (NGVD29) |
| | *presoak timing stopped at 2 inches due to heavy rain | | | Bottom of Hole Elevation | Approx. 128.5 (NGVD29) |

METHOD OF INFILTRATION TEST

A-S-TP-01 was advanced to a depth of about 5 feet below existing grade. An about 6-inch diameter, 24-inch deep hole was dug by hand with a post hole digger. The circumference of the hole was then lined with a 6-inch diameter, 30-inch long PVC pipe. Before running infiltration tests, the hole was presoaked with 24 inches of water and allowed to drain overnight. Timing for the presoak was stopped due to heavy rainfall and the infiltration testing hole was free of water the following morning prior to starting infiltration testing. For each infiltration test, the hole was filled with water to a predetermined depth of 24 inches. Then, the time was recorded after one hour or the time for the water to drain 24 inches was recorded. The tables below outline the calculations for determining the average rate in which the water dissipated. Test pit A-S-TP-01 was advanced to termination depth following completion of the infiltration test.

| | TIME (SEC) | DEPTH OF WATER (IN) | TIME INTERVAL (SEC) | RATE (IN/MIN) | RATE (IN/HOUR) | SOIL CONDITIONS |
|-----------------------------|------------|---------------------|---------------------|---------------|--------------------|-----------------------------------|
| TEST 1 | 0 | 24 | - | - | - | Light brown fine SAND, trace silt |
| | 2460 | 0 | 2460 | 0.59 | 35.12 | |
| Average Rate: | | | | 35.1 | inches/hour | |
| | TIME (SEC) | DEPTH OF WATER (IN) | TIME INTERVAL (SEC) | RATE (IN/MIN) | RATE (IN/HOUR) | SOIL CONDITIONS |
| TEST 2 | 0 | 24 | - | - | - | Light brown fine SAND, trace silt |
| | 3240 | 0 | 3240 | 0.44 | 26.67 | |
| Average Rate: | | | | 26.7 | inches/hour | |
| | TIME (SEC) | DEPTH OF WATER (IN) | TIME INTERVAL (SEC) | RATE (IN/MIN) | RATE (IN/HOUR) | SOIL CONDITIONS |
| TEST 3 | 0 | 24 | - | - | - | Light brown fine SAND, trace silt |
| | 2460 | 0 | 2460 | 0.59 | 35.12 | |
| Average Rate: | | | | 35.1 | inches/hour | |
| | TIME (SEC) | DEPTH OF WATER (IN) | TIME INTERVAL (SEC) | RATE (IN/MIN) | RATE (IN/HOUR) | SOIL CONDITIONS |
| TEST 4 | 0 | 24 | - | - | - | Light brown fine SAND, trace silt |
| | 2880 | 0 | 2880 | 0.50 | 30.00 | |
| Average Rate: | | | | 30.0 | inches/hour | |
| Lowest Average Rate: | | | | 26.7 | inches/hour | |

LANGAN

INFILTRATION TESTS

A-IT-02 performed in A-S-TP-02

| | | | |
|---|---|--|---|
| PROJECT Project Hudson | | PROJECT NO. 151010101 | |
| LOCATION 59 Steele Road, Hudson, NH | | DATE 6/24/2020 to 6/25/2020 | |
| INSPECTOR Olivia Chasse | | WEATHER Rain, 70s°F/Sunny, 80s°F | |
| PRESOAK | TIME | DEPTH OF WATER IN HOLE (INCH) | ELEVATION AND DATUM |
| | Start 13:00 | 24 | Surface Elevation Approx. 133 (NGVD29) |
| | End 13:16 | 4 | Top of Hole Elevation Approx. 130.0 (NGVD29) |
| | *presoak timing stopped at 4 inches due to heavy rain | | Bottom of Hole Elevation Approx. 128.0 (NGVD29) |

METHOD OF INFILTRATION TEST

A-S-TP-02 was advanced to a depth of about 3 feet below existing grade. An about 6-inch diameter, 24-inch deep hole was dug by hand with a post hole digger. The circumference of the hole was then lined with a 6-inch diameter, 30-inch long PVC pipe. Before running infiltration tests, the hole was presoaked with 24 inches of water and allowed to drain overnight. Timing for the presoak was stopped due to heavy rainfall and the infiltration testing hole was free of water the following morning prior to starting infiltration testing. For each infiltration test, the hole was filled with water to a predetermined depth of 24 inches. Then, the time was recorded after one hour or the time for the water to drain 24 inches was recorded. The tables below outline the calculations for determining the average rate in which the water dissipated. Test pit A-S-TP-02 was advanced to to termination depth following completion of the infiltration test.

| | TIME (SEC) | DEPTH OF WATER (IN) | TIME INTERVAL (SEC) | RATE (IN/MIN) | RATE (IN/HOUR) | SOIL CONDITIONS |
|----------------------|------------|---------------------|---------------------|---------------|----------------|-----------------------------|
| TEST 1 | 0 | 24 | - | - | - | Light brown fine sandy SILT |
| | 2340 | 0 | 2340 | 0.62 | 36.92 | |
| Average Rate: | | | | | 36.9 | inches/hour |

| | TIME (SEC) | DEPTH OF WATER (IN) | TIME INTERVAL (SEC) | RATE (IN/MIN) | RATE (IN/HOUR) | SOIL CONDITIONS |
|----------------------|------------|---------------------|---------------------|---------------|----------------|-----------------------------|
| TEST 2 | 0 | 24 | - | - | - | Light brown fine sandy SILT |
| | 2460 | 0 | 2460 | 0.59 | 35.12 | |
| Average Rate: | | | | | 35.1 | inches/hour |

| | TIME (SEC) | DEPTH OF WATER (IN) | TIME INTERVAL (SEC) | RATE (IN/MIN) | RATE (IN/HOUR) | SOIL CONDITIONS |
|----------------------|------------|---------------------|---------------------|---------------|----------------|-----------------------------|
| TEST 3 | 0 | 24 | - | - | - | Light brown fine sandy SILT |
| | 2940 | 0 | 2940 | 0.49 | 29.39 | |
| Average Rate: | | | | | 29.4 | inches/hour |

| | TIME (SEC) | DEPTH OF WATER (IN) | TIME INTERVAL (SEC) | RATE (IN/MIN) | RATE (IN/HOUR) | SOIL CONDITIONS |
|----------------------|------------|---------------------|---------------------|---------------|----------------|-----------------------------|
| TEST 4 | 0 | 24 | - | - | - | Light brown fine sandy SILT |
| | 2880 | 0 | 2880 | 0.50 | 30.00 | |
| Average Rate: | | | | | 30.0 | inches/hour |

| | | |
|-----------------------------|-------------|--------------------|
| Lowest Average Rate: | 29.4 | inches/hour |
|-----------------------------|-------------|--------------------|

LANGAN

INFILTRATION TESTS

A-IT-09 performed in A-S-TP-09

| | | | | | |
|---|--------------|--------------------------------------|---------------------------------|------------------------------|------------------------|
| PROJECT | | Project Hudson | PROJECT NO. | | 151010101 |
| LOCATION | | 59 Steele Road, Hudson, NH | DATE | | 06/23/2020 |
| INSPECTOR | | Olivia Chasse | WEATHER | | Sunny, 80s°F |
| PRESOAK | TIME | DEPTH OF WATER IN HOLE (INCH) | ELEVATION AND DATUM | | |
| | Start | 10:09 | 24 | Surface Elevation | Approx. 132.5 (NGVD29) |
| | End | 10:19 | 5 | Top of Hole Elevation | Approx. 132.5 (NGVD29) |
| *presoak stopped at 5 inches due to silting at bottom | | | Bottom of Hole Elevation | Approx. 130.5 (NGVD29) | |

METHOD OF INFILTRATION TEST

An about 6-inch diameter, 24-inch deep hole was dug below surface grade, by hand with a post hole digger. The circumference of the hole was then lined with a 6-inch diameter, 30-inch long PVC pipe. Before running infiltration tests, the hole was presoaked with 24 inches of water and allowed to drain. For each infiltration test, the hole was filled with water to a predetermined depth of 24 inches. Then, the time was recorded after one hour or the time for the water to drain all 24 inches was recorded. The tables below outline the calculations for determining the average rate in which the water dissipated. Test pit A-S-TP-09 was advanced to termination depth following completion of the infiltration test.

| | TIME (SEC) | DEPTH OF WATER (IN) | TIME INTERVAL (SEC) | RATE (IN/MIN) | RATE (IN/HOUR) | SOIL CONDITIONS |
|-----------------------------|------------|---------------------|---------------------|---------------|----------------|---|
| TEST 1 | 0 | 24 | - | - | - | Grayish brown fine to medium SAND, some silt, trace fine gravel |
| | 960 | 0 | 960 | 1.50 | 90.00 | |
| Average Rate: | | | | | 90.0 | inches/hour |
| | TIME (SEC) | DEPTH OF WATER (IN) | TIME INTERVAL (SEC) | RATE (IN/MIN) | RATE (IN/HOUR) | SOIL CONDITIONS |
| TEST 2 | 0 | 24 | - | - | - | Grayish brown fine to medium SAND, some silt, trace fine gravel |
| | 1260 | 0 | 1260 | 1.14 | 68.57 | |
| Average Rate: | | | | | 68.6 | inches/hour |
| | TIME (SEC) | DEPTH OF WATER (IN) | TIME INTERVAL (SEC) | RATE (IN/MIN) | RATE (IN/HOUR) | SOIL CONDITIONS |
| TEST 3 | 0 | 24 | - | - | - | Grayish brown fine to medium SAND, some silt, trace fine gravel |
| | 1380 | 0 | 1380 | 1.04 | 62.61 | |
| Average Rate: | | | | | 62.6 | inches/hour |
| | TIME (SEC) | DEPTH OF WATER (IN) | TIME INTERVAL (SEC) | RATE (IN/MIN) | RATE (IN/HOUR) | SOIL CONDITIONS |
| TEST 4 | 0 | 24 | - | - | - | Grayish brown fine to medium SAND, some silt, trace fine gravel |
| | 1680 | 0 | 1680 | 0.86 | 51.43 | |
| Average Rate: | | | | | 51.4 | inches/hour |
| Lowest Average Rate: | | | | | 51.4 | inches/hour |

LANGAN

INFILTRATION TESTS

A-IT-15 performed in A-S-TP-15

| | | | | | |
|------------------|-------------|--------------------------------------|----------------------------|---------------------------------|------------------------|
| PROJECT | | Project Hudson | PROJECT NO. | | 151010101 |
| LOCATION | | 59 Steele Road, Hudson, NH | DATE | | 6/5/2020 |
| INSPECTOR | | Taylor Sisti | WEATHER | | Sunny, 70s°F |
| PRESOAK | TIME | DEPTH OF WATER IN HOLE (INCH) | ELEVATION AND DATUM | | |
| | Start | 13:24 | 24 | Surface Elevation | Approx. 137 (NGVD29) |
| | End | 13:27 | 0 | Top of Hole Elevation | Approx. 134.5 (NGVD29) |
| | | | | Bottom of Hole Elevation | Approx. 132.5 (NGVD29) |

METHOD OF INFILTRATION TEST

A-S-TP-15 was advanced to a depth of about 2.5 feet below existing grades. An about 6-inch diameter, 24-inch deep hole was dug by hand with a post hole digger. The circumference of the hole was then lined with a 6-inch diameter, 30-inch long PVC pipe. Before running infiltration tests, the hole was presoaked with 24 inches of water and allowed to drain. For each infiltration test, the hole was filled with water to a predetermined depth of 24 inches. Then, the time was recorded after every six inch drop to calculate the overall infiltration rate. The tables below outline the calculations for determining the average rate in which the water dissipated. Test pit A-S-TP-15 was advanced to termination depth following completion of the infiltration test.

| | TIME (SEC) | DEPTH OF WATER (IN) | TIME INTERVAL (SEC) | RATE (IN/MIN) | RATE (IN/HOUR) | SOIL CONDITIONS |
|----------------------|------------|---------------------|---------------------|---------------|--------------------|---------------------------------------|
| TEST 1 | 0 | 24 | - | - | - | Brown fine to medium SAND, trace silt |
| | 20.6 | 18 | 20.6 | 17.48 | 1048.54 | |
| | 55.7 | 12 | 35.1 | 10.26 | 615.38 | |
| | 125.9 | 6 | 70.2 | 5.13 | 307.69 | |
| | 241.3 | 0 | 115.4 | 3.12 | 187.18 | |
| Average Rate: | | | | 539.7 | inches/hour | |

| | TIME (SEC) | DEPTH OF WATER (IN) | TIME INTERVAL (SEC) | RATE (IN/MIN) | RATE (IN/HOUR) | SOIL CONDITIONS |
|----------------------|------------|---------------------|---------------------|---------------|--------------------|---------------------------------------|
| TEST 2 | 0 | 24 | - | - | - | Brown fine to medium SAND, trace silt |
| | 15.9 | 18 | 15.9 | 22.64 | 1358.49 | |
| | 42.6 | 12 | 26.7 | 13.48 | 808.99 | |
| | 86.5 | 7 | 43.9 | 6.83 | 410.02 | |
| | 133.7 | 2 | 47.2 | 6.36 | 381.36 | |
| Average Rate: | | | | 739.7 | inches/hour | |

NOTE: Bottom silted 2 inches, test ended when no water remained.

| | TIME (SEC) | DEPTH OF WATER (IN) | TIME INTERVAL (SEC) | RATE (IN/MIN) | RATE (IN/HOUR) | SOIL CONDITIONS |
|----------------------|------------|---------------------|---------------------|---------------|--------------------|---------------------------------------|
| TEST 3 | 0 | 24 | - | - | - | Brown fine to medium SAND, trace silt |
| | 21.3 | 18 | 21.3 | 16.90 | 1014.08 | |
| | 64.3 | 12 | 43 | 8.37 | 502.33 | |
| | 174.5 | 6 | 110.2 | 3.27 | 196.01 | |
| | 313.5 | 1 | 139 | 2.16 | 129.50 | |
| Average Rate: | | | | 460.5 | inches/hour | |

NOTE: Bottom silted 1 inch, test ended when no water remained.

LANGAN

INFILTRATION TESTS

A-IT-15 performed in A-S-TP-15 (cont.)

| | TIME (SEC) | DEPTH OF WATER (IN) | TIME INTERVAL (SEC) | RATE (IN/MIN) | RATE (IN/HOUR) | SOIL CONDITIONS |
|--------|------------|---------------------|---------------------|---------------|----------------|---------------------------------------|
| TEST 4 | 0 | 24 | - | - | - | Brown fine to medium SAND, trace silt |
| | 47.6 | 18 | 47.6 | 7.56 | 453.78 | |
| | 141.8 | 12 | 94.2 | 3.82 | 229.30 | |
| | 331.2 | 6 | 189.4 | 1.90 | 114.04 | |
| | 609.7 | 0 | 278.5 | 1.29 | 77.56 | |

Average Rate: 218.7 inches/hour

Lowest Average Rate: 218.67 inches/hour

LANGAN

INFILTRATION TESTS

A-IT-21 performed in A-S-TP-21

| | | | | | |
|------------------|-------------|--------------------------------------|----------------------------|---------------------------------|------------------------|
| PROJECT | | Project Hudson | PROJECT NO. | | 151010101 |
| LOCATION | | 59 Steele Road, Hudson, NH | DATE | | 6/29/2020 |
| INSPECTOR | | Taylor Sisti | WEATHER | | Cloudy, 70s°F |
| PRESOAK | TIME | DEPTH OF WATER IN HOLE (INCH) | ELEVATION AND DATUM | | |
| | Start | 8:52 | 24 | Surface Elevation | Approx. 115 (NGVD29) |
| | End | 9:39 | 0 | Top of Hole Elevation | Approx. 114.0 (NGVD29) |
| | | | | Bottom of Hole Elevation | Approx. 112.0 (NGVD29) |

METHOD OF INFILTRATION TEST

A-S-TP-21 was advanced to a depth of about 1 foot below existing grade. An about 6-inch diameter, 24-inch deep hole was dug by hand with a post hole digger. The circumference of the hole was then lined with a 6-inch diameter, 30-inch long PVC pipe. Before running infiltration tests, the hole was presoaked with 24 inches of water and allowed to drain. For each infiltration test, the hole was filled with water to a predetermined depth of 24 inches. Then, the time was recorded after one hour or the time for the water to drain 24 inches was recorded. The tables below outline the calculations for determining the average rate in which the water dissipated. Test pit A-S-TP-21 was advanced to termination depth following completion of the infiltration test.

| | TIME (SEC) | DEPTH OF WATER (IN) | TIME INTERVAL (SEC) | RATE (IN/MIN) | RATE (IN/HOUR) | SOIL CONDITIONS |
|-----------------------------|------------|---------------------|---------------------|---------------|----------------|---|
| TEST 1 | 0 | 24 | - | - | - | Light brown sandy SILT, trace fine gravel |
| | 3300 | 0 | 3300 | 0.44 | 26.18 | |
| Average Rate: | | | | | 26.2 | inches/hour |
| | TIME (SEC) | DEPTH OF WATER (IN) | TIME INTERVAL (SEC) | RATE (IN/MIN) | RATE (IN/HOUR) | SOIL CONDITIONS |
| TEST 2 | 0 | 24 | - | - | - | Light brown sandy SILT, trace fine gravel |
| | 3600 | 1 | 3600 | 0.38 | 23.00 | |
| Average Rate: | | | | | 23.0 | inches/hour |
| | TIME (SEC) | DEPTH OF WATER (IN) | TIME INTERVAL (SEC) | RATE (IN/MIN) | RATE (IN/HOUR) | SOIL CONDITIONS |
| TEST 3 | 0 | 24 | - | - | - | Light brown sandy SILT, trace fine gravel |
| | 3600 | 1 | 3600 | 0.38 | 23.00 | |
| Average Rate: | | | | | 23.0 | inches/hour |
| | TIME (SEC) | DEPTH OF WATER (IN) | TIME INTERVAL (SEC) | RATE (IN/MIN) | RATE (IN/HOUR) | SOIL CONDITIONS |
| TEST 4 | 0 | 24 | - | - | - | Light brown sandy SILT, trace fine gravel |
| | 3600 | 1.5 | 3600 | 0.38 | 22.50 | |
| Average Rate: | | | | | 22.5 | inches/hour |
| Lowest Average Rate: | | | | | 22.5 | inches/hour |

LANGAN

INFILTRATION TESTS

A-IT-22 performed in A-S-TP-22

| | | | | | |
|------------------|-------------|--------------------------------------|----------------------------|---------------------------------|------------------------|
| PROJECT | | Project Hudson | PROJECT NO. | | 151010101 |
| LOCATION | | 59 Steele Road, Hudson, NH | DATE | | 6/29/2020 |
| INSPECTOR | | Taylor Sisti | WEATHER | | Cloudy, 70s°F |
| PRESOAK | TIME | DEPTH OF WATER IN HOLE (INCH) | ELEVATION AND DATUM | | |
| | Start | 9:07 | 24 | Surface Elevation | Approx. 114 (NGVD29) |
| | End | 9:27 | 0 | Top of Hole Elevation | Approx. 112.0 (NGVD29) |
| | | | | Bottom of Hole Elevation | Approx. 110.0 (NGVD29) |

METHOD OF INFILTRATION TEST

A-S-TP-22 was advanced to a depth of about 2 feet below existing grade. An about 6-inch diameter, 24-inch deep hole was dug by hand with a post hole digger. The circumference of the hole was then lined with a 6-inch diameter, 30-inch long PVC pipe. Before running infiltration tests, the hole was presoaked with 24 inches of water and allowed to drain. For each infiltration test, the hole was filled with water to a predetermined depth of 24 inches. Then, the time was recorded after one hour or the time for the water to drain 24 inches was recorded. The tables below outline the calculations for determining the average rate in which the water dissipated. Test pit A-S-TP-22 was advanced to termination depth following completion of the infiltration test.

| | TIME (SEC) | DEPTH OF WATER (IN) | TIME INTERVAL (SEC) | RATE (IN/MIN) | RATE (IN/HOUR) | SOIL CONDITIONS |
|-----------------------------|------------|---------------------|---------------------|---------------|--------------------|------------------------|
| TEST 1 | 0 | 24 | - | - | - | Light brown sandy SILT |
| | 1665 | 0 | 1665 | 0.86 | 51.89 | |
| Average Rate: | | | | 51.9 | inches/hour | |
| | TIME (SEC) | DEPTH OF WATER (IN) | TIME INTERVAL (SEC) | RATE (IN/MIN) | RATE (IN/HOUR) | SOIL CONDITIONS |
| TEST 2 | 0 | 24 | - | - | - | Light brown sandy SILT |
| | 2065 | 0 | 2065 | 0.70 | 41.84 | |
| Average Rate: | | | | 41.8 | inches/hour | |
| | TIME (SEC) | DEPTH OF WATER (IN) | TIME INTERVAL (SEC) | RATE (IN/MIN) | RATE (IN/HOUR) | SOIL CONDITIONS |
| TEST 3 | 0 | 24 | - | - | - | Light brown sandy SILT |
| | 2557 | 0 | 2557 | 0.56 | 33.79 | |
| Average Rate: | | | | 33.8 | inches/hour | |
| | TIME (SEC) | DEPTH OF WATER (IN) | TIME INTERVAL (SEC) | RATE (IN/MIN) | RATE (IN/HOUR) | SOIL CONDITIONS |
| TEST 4 | 0 | 24 | - | - | - | Light brown sandy SILT |
| | 2902 | 0 | 2902 | 0.50 | 29.77 | |
| Average Rate: | | | | 29.8 | inches/hour | |
| Lowest Average Rate: | | | | 29.8 | inches/hour | |

APPENDIX I PAVEMENT DESIGN

**APPENDIX I.1
FLEXIBLE PAVEMENT DESIGN
SITE AREAS (LOTS A, B, C)**

Project Information:

Project Title: Hudson Logistic Center
Project Town: Hudson
Project State: New Hampshire
Client: Hudson Logistic Center

Project No.: 151010101
Performed By: NA
Date: 6/16/2020
Location: Site Areas (All Lots)

Design Information:

- o Design Life: 20 years
- o Initial Servicingity (Po): 4.2
- o Terminal Servicingity Index (TSI): 2.5
- o Servicingity (Po - TSI): 1.7
- o Reliability Factor (R): 0.90
- o Standard Deviation (Sd): 0.45
- o Direction Distribution Factor (Do): 1.00
- o Lane Distribution Factor (DI): 1.00
- o Soil Description: FILL & SP/SM
- o USCS Symbol: SP/SM
- o California Bearing Ratio (CBR): 10
- o Resilient Modulus (MR): 15000 PSI

CBR Based on: Estimated Value
 $*MR = CBR * 1,500$ $5 \leq CBR \leq 10$
 $*MR = 3000 * CBR^{0.65}$ $CBR > 10$

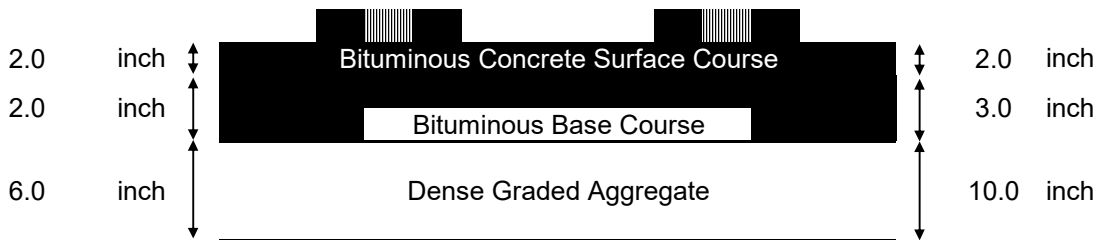
Summary of Results

Standard Section

Design ESAL: 11,422

Heavy Duty Section

Design ESAL: 2,177,920



555 Long Wharf Drive, New Haven, CT 06511
 T: 203.562.5771 F: 203.789.6142 www.langan.com
 NEW JERSEY NEW YORK CONNECTICUT PENNSYLVANIA OHIO
 WASHINGTON, DC FLORIDA TEXAS NORTH DAKOTA CALIFORNIA
 ABU DHABI ATHENS DOHA DUBAI ISTANBUL PANAMA
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 Langan Engineering and Environmental Services, Inc.
 Langan, CT, Inc.
 Langan International LLC
 collectively known as Langan

| | | | |
|--|---|--------------------------|-------------------------|
| Project Hudson Logistic Center Hudson New Hampshire | Drawing Title Pavement Design Summary Sheet | Project No. 151010101 | Drawing No. P.01 |
| | | Date 6/16/2020 | |
| | | Scale Not to Scale | |
| | | Drawn By NA | Sheet 1 of 4 |

Calculate Equivalent 18-kip Single Axle Loading (ESALs)

Equivalent Single Axle Loads per Vehicle

| | | | | |
|--|--|------------------|--|--|
| ○ Typical Car: | | Load Equivalency | | |
| | | Factors: | | <u>Calculated ESALs</u> |
| (S) Front Single Axle: 2 kips | | LEF = 0.001045 | | (1 axle)(0.001045)+(1 axle)(0.001045) = |
| (S) Rear Single Axle: 2 kips | | LEF = 0.001045 | | 0.00209 /car |
| | | | | |
| ○ Typical Delivery Van: | | | | <u>Calculated ESALs</u> |
| (S) Front Single Axle: 8 kips | | LEF = 0.0343 | | (1 axle)(0.0343)+(1 axle)(0.0343) = |
| (S) Truck Rear Axle: 8 kips | | LEF = 0.0343 | | 0.0686 /truck |
| | | | | |
| ○ Typical Truck and Trailer (HS20): | | | | <u>Calculated ESALs</u> |
| (S) Front Single Axle: 12 kips | | LEF = 0.189 | | ((Front axle)(0.189)+(Rear axle)(0.8905) +(Trailer Tandem)(0.8905)) = |
| (T) Truck Rear Axle: 32 kips | | LEF = 0.8905 | | |
| (T) Trailer Axle: 32 kips | | LEF = 0.8905 | | |

(S) = single axle, (T) = Tandem, (3) = Triple Axles

Traffic Loading ○ Design Life: 20 years (From Sheet P.01)

Standard Pavement Section

| Vehicle Types | Current Traffic | % Increase | Design Traffic | ESAL Factor | Design ESAL |
|----------------|-----------------|------------|----------------|-------------|-------------|
| Passenger Cars | 651 | 115% | 5,465,145 | 0.00209 | 11,422 |
| Light Trucks | 0 | 115% | 0 | 0.0686 | 0 |

Standard Design ESAL: **11,422**

Heavy Duty Pavement Section

| Vehicle Types | | Growth Factors | Design Traffic | ESAL Factor | Design ESAL |
|----------------|-----|----------------|----------------|-------------|-------------|
| Passenger Cars | 651 | 115% | 5,465,145 | 0.00209 | 11,422 |
| Light Trucks | 0 | 115% | 0 | 0.0686 | 0 |
| Heavy Trucks | 131 | 115% | 1,099,745 | 1.97 | 2,166,498 |

Heavy Duty Design ESAL: **2,177,920**

| | | | | |
|--|-----------------------------|--|-------------|--------------------------|
| <p style="font-size: small; margin: 0;">555 Long Wharf Drive, New Haven, CT 06511 T: 203.562.5771 F: 203.789.6142 www.langan.com</p> <p style="font-size: x-small; margin: 0;">NEW JERSEY NEW YORK CONNECTICUT PENNSYLVANIA OHIO WASHINGTON, DC FLORIDA TEXAS NORTH DAKOTA CALIFORNIA ABU DHABI ATHENS DOHA DUBAI ISTANBUL PANAMA</p> <p style="font-size: x-small; margin: 0;">Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. S.A. Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. Langan Engineering and Construction Services, Inc. Langan, C.T., P.E. Langan International LLC Collectively known as Langan</p> | Project | Drawing Title | Project No. | Drawing No. |
| | Hudson New Hampshire | Hudson Logistic Center ESAL Calculation | 151010101 | P.02 Sheet 2 of 4 |
| | | | Date | |
| | | | 6/16/2020 | |
| Scale | Not to Scale | Drawn By | NA | |

Design Information (from P.01):

- Reliability Factor (R): 0.90
- Standard Deviation (Sd): 0.45
- Resilient Modulus (MR): 15
- Servicibility (Po - TSI): 1.7

Traffic Information (from P.02):

- **Standard ESALs (W18):**
 11,422
 (millions) 0.011
- **Heavy Duty ESALs (W18):**
 2,177,920
 (millions) 2.18

From Nomograph:

Design Structural Number (SN)

Standard Section:

1.8

Heavy Duty Section:

3.0

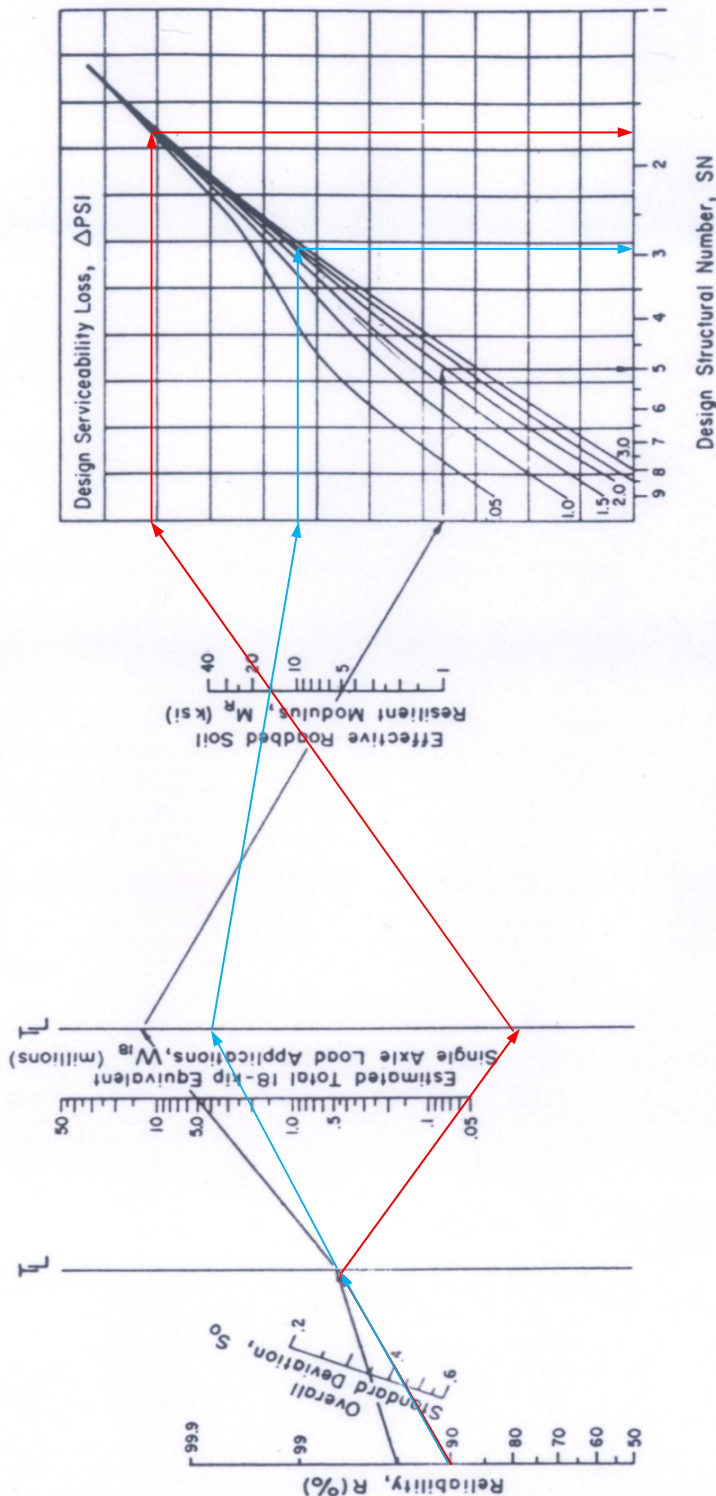


Figure 11.25 Design chart for flexible pavements based on mean values for each input (1 ksi = 6.9 MPa). (From the *AASHTO Guide for Design of Pavement Structures*. Copyright 1986. American Association of State Highway and Transportation Officials, Washington, DC. Used by permission.)

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|---------|------------------------|
| Project | Hudson Logistic Center |
| Hudson | New Hampshire |

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|---------------|------------------------------------|
| Drawing Title | AASHTO Flexible Pavement Nomograph |
|---------------|------------------------------------|

| | |
|-------------|-----------|
| Project No. | 151010101 |
| Date | 6/16/2020 |
| Scale | As Shown |
| Drawn By | NA |

| | |
|--------------|------|
| Drawing No. | P.03 |
| Sheet 3 of 4 | |

Flexible Pavement Section Calculation:

Standard Section:

Structural Number:
 $SN = D1(a1)+D2(a2)+D3(a3)$

| Material | Spec | Thickness (inch) | TDS | SN |
|-------------------------------------|---------|------------------|---------|------|
| Bituminuous Concrete Surface Course | Class 2 | D1 2.0 | a1 0.44 | 0.88 |
| Bituminuous Concrete Binder Course | Class 1 | D2 2.0 | a2 0.44 | 0.88 |
| Dense Graded Aggregate | Subbase | D3 6.0 | a3 0.11 | 0.66 |

Calculated Structural Number for Section: **2.42**
 Check Calculated SN is > Design SN: OK
 Design Light Duty Structural Number SN: 1.8 (from P.03)

Heavy Duty Section:

| Material | Spec | Thickness (inch) | Layer Strength | SN |
|-------------------------------------|---------|------------------|----------------|------|
| Bituminuous Concrete Surface Course | Class 2 | D1 2.0 | a1 0.44 | 0.88 |
| Bituminuous Concrete Binder Course | Class 1 | D2 3.0 | a2 0.44 | 1.32 |
| Dense Graded Aggregate | Subbase | D3 10.0 | a3 0.11 | 1.10 |

Calculated Structural Number for Section: **3.30**
 Check Calculated SN is > Design SN: OK
 Design Heavy Duty Structural Number SN: 3.0 (from P.03)

Minimum Pavement Section

| Material | Spec | Thickness (inch) |
|------------------------------|---------|------------------|
| Bituminuous Concrete (Total) | | 4.0 |
| Dense Graded Aggregate | Subbase | 6.0 |



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| | |
|---------|------------------------|
| Project | Hudson Logistic Center |
| Hudson | New Hampshire |

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|---------------|---------------------------------------|
| Drawing Title | Flexible Pavement Section Calculation |
|---------------|---------------------------------------|

| | |
|-------------|-----------|
| Project No. | 151010101 |
| Date | 6/16/2020 |
| Scale | As Shown |
| Drawn By | NA |

| | |
|--------------|------|
| Drawing No. | P.04 |
| Sheet 4 of 4 | |

APPENDIX I.2
RIGID PAVEMENT DESIGN
SITE AREAS (LOTS A, B, C)



DESIGN SUMMARY REPORT FOR

JOINTED-PLAIN CONCRETE PAVEMENT (JPCP)

DATE CREATED:

Wed Sep 02 2020 17:12:30 GMT-0400 (Eastern Daylight Time)

Project Description

Project Name: Lot A - SD Owner: Zip Code:
 Designer's Name: Route:
 Project Description:

Design Summary

| | | | | | |
|-------------------------------|---------------------|-----------------------|------------------------|------------------|--------------------|
| Recommended Design Thickness: | Doweled 5.00 in. | Undoweled 5.00 in. | Maximum Joint Spacing: | Doweled 8 ft. | Undoweled 8 ft. |
| Calculated Minimum Thickness: | 4.96 in. | 4.96 in. | | | |

Pavement Structure

SUBBASE
 Calculated Composite K-Value of Substructure: 467 psi/in

Minimum Pavement Section: 5-inches of concrete over 4-inches of aggregate base

| Layer Type | Resilient Modulus | Layer Thickness |
|--------------------------------|-------------------|-----------------|
| JOINTED PLAIN CONCRETE SURFACE | | |
| Granular Base | 25,000 psi | 6 in |
| SUBGRADE | | |

CONCRETE

Compressive Strength: 4500 psi Edge Support: Yes
 Modulus of Elasticity: 4000000 psi Macrobbers in Concrete: No
 Calculated Flexural Strength: 627 psi

SUBGRADE

CBR: 10 %
 Calculated MRSG Value 9,389 psi

Project Level

TRAFFIC

Spectrum Type: ACI 330 Traffic Spectrum A
 Design Life: 30 years

USER DEFINED TRAFFIC

Trucks Per Day: 151
 Traffic Growth Rate %: 0 % per year
 Directional Distribution: 100 %
 Design Lane Distribution: 100 %

GLOBAL

Reliability: 95 %
 % Slabs Cracked at End of Design Life: 5 %

Avg Trucks/Day in Design Lane Over the Design Life: 151
 Total Trucks in Design Lane Over the Design Life: 1,654,583

Design Method

The PCA design methodology from StreetPave, was used to produce these results.



DESIGN SUMMARY REPORT FOR

JOINTED-PLAIN CONCRETE PAVEMENT (JPCP)

DATE CREATED:

Mon Jul 13 2020 13:17:47 GMT-0400 (Eastern Daylight Time)

Project Description

Project Name: Lot A - HD Owner: Zip Code:
 Designer's Name: Route:
 Project Description:

Design Summary

| | | | | | |
|-------------------------------|---------------------|-----------------------|------------------------|------------------|--------------------|
| Recommended Design Thickness: | Doweled 5.75 in. | Undoweled 6.00 in. | Maximum Joint Spacing: | Doweled 9 ft. | Undoweled 9 ft. |
| Calculated Minimum Thickness: | 5.74 in. | 5.94 in. | | | |

Pavement Structure

SUBBASE

Calculated Composite K-Value of Substructure: 490 psi/in

Minimum Pavement Section: 8-inches of concrete over 6-inches of aggregate base

| Layer Type | Resilient Modulus | Layer Thickness |
|--------------------------------|-------------------|-----------------|
| JOINTED PLAIN CONCRETE SURFACE | | |
| Granular Base | 25,000 psi | 8 in |
| SUBGRADE | | |

CONCRETE

Compressive Strength: 4000 psi Edge Support: Yes
 Modulus of Elasticity: 4000000 psi Macrobefibers in Concrete: No
 Calculated Flexural Strength: 580 psi

SUBGRADE

CBR: 10 %
 Calculated MRSG Value 9,389 psi

Project Level

TRAFFIC

Spectrum Type: ACI 330 Traffic Spectrum D
 Design Life: 30 years

USER DEFINED TRAFFIC

Trucks Per Day: 151
 Traffic Growth Rate %: 0 % per year
 Directional Distribution: 100 %
 Design Lane Distribution: 100 %

GLOBAL

Reliability: 95 %
 % Slabs Cracked at End of Design Life: 5 %

Avg Trucks/Day in Design Lane Over the Design Life: 151
 Total Trucks in Design Lane Over the Design Life: 1,654,583

Design Method

The PCA design methodology from StreetPave, was used to produce these results.

APPENDIX I.3
FLEXIBLE PAVEMENT DESIGN
ROADWAYS

Project Information:

Project Title: Hudson Logistic Center
Project Town: Hudson
Project State: New Hampshire
Client: Hudson Logistic Center

Project No.: 151010101
Performed By: NA
Date: 6/16/2020
Location: Roadways (Walmart Blvd. & Green Meadow Drive)

Design Information:

- Design Life: 20 years
 - Initial Serviciability (Po): 4.2
 - Terminal Serviciability Index (TSI): 2.5
 - Serviciability (Po - TSI): 1.7
 - Reliability Factor (R): 0.90
 - Standard Deviation (Sd): 0.45
 - Direction Distribution Factor (Do): 1.00
 - Lane Distribution Factor (DI): 1.00
 - Soil Description: FILL & SP/SM
 - USCS Symbol: SP/SM
 - California Bearing Ratio (CBR): 10
 - Resilient Modulus (MR): 15000 PSI
- CBR Based on: Estimated Value
 *MR = CBR*1,500 5 <= CBR <= 10
 *MR = 3000*CBR^0.65 CBR > 10

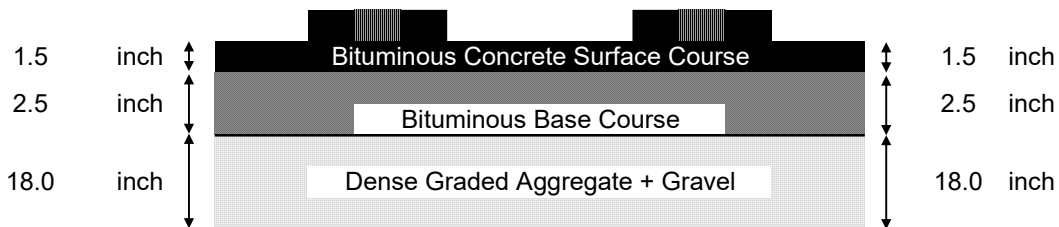
Summary of Results


Northern Access Roadway (Walmart Blvd.)

Design ESAL: 2,173,340

Southern Access Roadway (Green Meadow Drive)

Design ESAL: 1,684,723



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| | Hudson Logistic Center Hudson New Hampshire | Pavement Design Summary Sheet - Roadways | 151010101 | P.01 |
| | | | Date | |
| | | | Scale | Not to Scale |
| | | | Drawn By | Sheet 1 of 4 |
| | | | NA | |

Calculate Equivalent 18-kip Single Axle Loading (ESALs)

Equivalent Single Axle Loads per Vehicle

- | | | Load Equivalency Factors: | Calculated ESALs | |
|--|--|---------------------------|------------------------------|------------------------|
| ○ Typical Car: | | | | |
| (S) Front Single Axle: 2 kips | | LEF = 0.001045 | (1 axle)(0.001045) | = 0.00209 /car |
| (S) Rear Single Axle: 2 kips | | LEF = 0.001045 | +(1 axle)(0.001045) | |
| ○ Typical Delivery Van: | | | | |
| (S) Front Single Axle: 8 kips | | LEF = 0.0343 | (1 axle)(0.0343) | = 0.0686 /truck |
| (S) Truck Rear Axle: 8 kips | | LEF = 0.0343 | +(1 axle)(0.0343) | |
| ○ Typical Truck and Trailer (HS20): | | | | |
| (S) Front Single Axle: 12 kips | | LEF = 0.189 | ((Front axle)(0.189) | = 1.97 /truck |
| (T) Truck Rear Axle: 32 kips | | LEF = 0.8905 | +(Rear axle)(0.8905) | |
| (T) Trailer Axle: 32 kips | | LEF = 0.8905 | +(Trailer Tandem)(0.8905)) = | |
- (S) = single axle, (T) = Tandem, (3) = Triple Axles

Traffic Loading ○ Design Life: 20 years (From Sheet P.01)

Northern Access Roadway (Walmart Blvd.)


| Vehicle Types | Current Traffic | % Increase | Design Traffic | ESAL Factor | Design ESAL |
|----------------|-----------------|------------|----------------|-------------|-------------|
| Passenger Cars | 390 | 115% | 3,274,050 | 0.00209 | 6,843 |
| Light Trucks | 0 | 115% | 0 | 0.0686 | 0 |
| Heavy Trucks | 131 | 115% | 1,099,745 | 1.97 | 2,166,498 |

Heavy Duty Design ESAL: **2,173,340**

Southern Access Roadway (Green Meadow Drive)

| Vehicle Types | Current Traffic | % Increase | Design Traffic | ESAL Factor | Design ESAL |
|----------------|-----------------|------------|----------------|-------------|-------------|
| Passenger Cars | 941 | 115% | 7,899,695 | 0.00209 | 16,510 |
| Light Trucks | 25 | 115% | 209,875 | 0.0686 | 14,397 |
| Heavy Trucks | 100 | 115% | 839,500 | 1.97 | 1,653,815 |

Heavy Duty Design ESAL: **1,684,723**

| | | | | |
|--|------------------------|------------------|--------------|-------------|
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| | Hudson Logistic Center | ESAL Calculation | 151010101 | P.02 |
| | | | Date | |
| | | | 6/16/2020 | |
| Hudson | New Hampshire | Scale | Sheet 2 of 4 | |
| | | Not to Scale | | |
| | | Drawn By | | |
| | | NA | | |

Design Information (from P.01):

- Reliability Factor (R): 0.90
- Standard Deviation (Sd): 0.45
- Resilient Modulus (MR): 15
- Servicibility (Po - TSI): 1.7

Traffic Information (from P.02):

- Northern ESALs (W18): 2,173,340
(millions) 2.173
- Southern ESALs (W18): 1,684,723
(millions) 1.68

From Nomograph:

Design Structural Number (SN)

N. Roadway (Walmart Blvd.):



S. Roadway (Green Meadow Dr.):

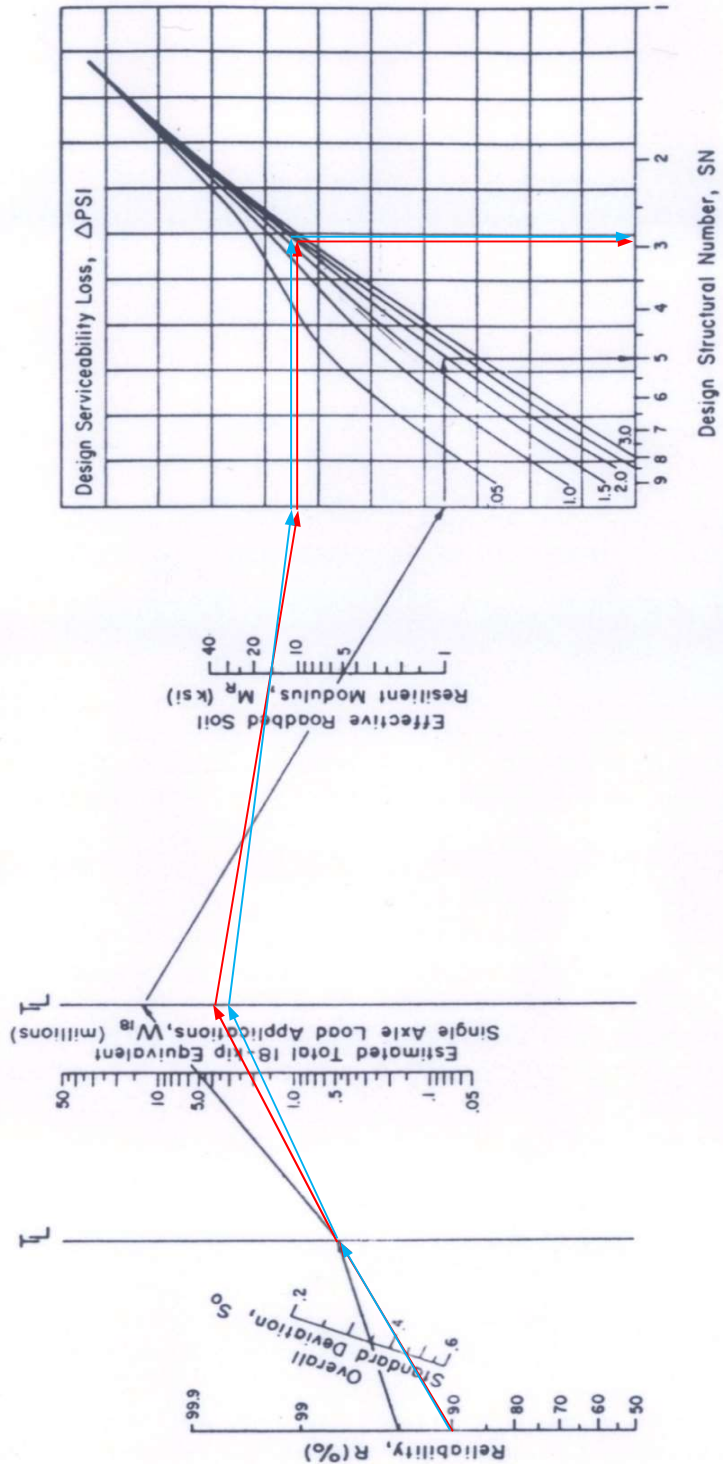


Figure 11.25 Design chart for flexible pavements based on mean values for each input (1 ksi = 6.9 MPa). (From the *AASHTO Guide for Design of Pavement Structures*. Copyright 1986. American Association of State Highway and Transportation Officials, Washington, DC. Used by permission.)

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| | |
|---------|------------------------|
| Project | Hudson Logistic Center |
| Hudson | New Hampshire |

| | |
|---------------|------------------------------------|
| Drawing Title | AASHTO Flexible Pavement Nomograph |
|---------------|------------------------------------|

| | |
|-------------|-----------|
| Project No. | 151010101 |
| Date | 6/16/2020 |
| Scale | As Shown |
| Drawn By | NA |

| | |
|--------------|------|
| Drawing No. | P.03 |
| Sheet 3 of 4 | |

Flexible Pavement Section Calculation:

Northern Access Roadway (Walmart Blvd.) Section:

Structural Number:
SN = D1(a1)+D2(a2)+D3(a3)

| Material | Spec | Thickness (inch) | TDS | SN |
|-------------------------------------|---------|------------------|---------|------|
| Bituminuous Concrete Surface Course | | D1 1.5 | a1 0.44 | 0.66 |
| Bituminuous Concrete Binder Course | | D2 2.5 | a2 0.44 | 1.10 |
| Gravel | | D3 6.0 | a3 0.11 | 0.66 |
| Dense Graded Aggregate | Subbase | D4 12.0 | a4 0.11 | 1.32 |

Calculated Structural Number for Section: **3.74**
 Check Calculated SN is > Design SN: OK
 Design Structural Number SN: 2.9 (from P.03)


Southern Access Roadway (Green Meadow Drive) Section:

| Material | Spec | Thickness (inch) | Layer Strength | SN |
|-------------------------------------|---------|------------------|----------------|------|
| Bituminuous Concrete Surface Course | | D1 1.5 | a1 0.44 | 0.66 |
| Bituminuous Concrete Binder Course | | D2 2.5 | a2 0.44 | 1.10 |
| Gravel | | D3 6.0 | a3 0.11 | 0.66 |
| Dense Graded Aggregate | Subbase | D4 12.0 | a4 0.11 | 1.32 |

Calculated Structural Number for Section: **3.74**
 Check Calculated SN is > Design SN: OK
 Design Structural Number SN: 2.9 (from P.03)

Minimum Pavement Section

| Material | Spec | Thickness (inch) |
|------------------------------|---------|------------------|
| Bituminuous Concrete (Total) | | 4.0 |
| Gravel | | 6.0 |
| Dense Graded Aggregate | Subbase | 12.0 |

| | | | | |
|--|-------------------------|--|-------------|--------------|
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| | Hudson New Hampshire | Hudson Logistic Center Flexible Pavement Section Calculation | 151010101 | P.04 |
| | | | Date | |
| | | | Scale | As Shown |
| | | | Drawn By | Sheet 4 of 4 |
| | | | NA | |