

**Appendix H**  
**GEOTECHNICAL SURVEY**

# Geotechnical Report

## **ProSwing Sports** Training Facility

160 & 132 Pugsley Road  
Southeast, New York

July 30, 2021

Prepared for:

**Kaeyer, Garment + Davidson Architects, PC**  
285 Main Street  
Mount Kisco, NY 10549

Prepared by:

**SKYLANDS ENGINEERING, LLC**  
124 Milton Road  
Sparta, NJ 07871

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**SKYLANDS ENGINEERING, LLC**  
124 Milton Road  
Sparta, NJ 07871  
Certificate of Authorization No. 0013524

Eugene J. Schwarzrock, Professional Engineer  
New York License No. 077607

Date

8-4-2021

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## INTRODUCTION

This project consists of the design and construction of a new sports training facility at 160 & 132 Pugsley Road in the Town of Southeast, Putnam County, New York. Synthetic sports fields, stormwater management basins, and parking lots will occupy the majority of the site, with numerous and various-sized buildings and retaining walls proposed across the site, as well.

The site is currently wooded and undeveloped and the terrain is generally highest near the center of the site, and slopes down to the north and south. Based on our review of the April 30, 2021 Boring Location Plan prepared by Insite Engineering Surveying & Landscaping, P.C. of Carmel, NY and which shows the proposed features, elevations vary from El. 730 near the center to El.  $\pm$ 630 in the north and El.  $\pm$ 60 in the south. Various cuts and fills and approximately ten (10) retaining walls are required for grading requirements.

Based on our review of the same plan, we note the following seven (7) buildings are proposed (all dimensions approximate):

1. Office/Training Building – 150 ft. x 330 ft. (prop. FF El. 688)
2. Concession/restroom Building at northern multi-sport fields - 20 ft. x 35 ft. (PFF El. 677)
3. Announcers Booth at baseball fields - 25 ft. x 25 ft. (PFF El. 708)
4. Outbuilding northeast of little league fields - 60 ft. x 60 ft. (PFF El. 706.5)
5. Announcers Booth at little league fields - 20 ft. x 20 ft. (PFF El. 700)
6. Maintenance Shed - 24 ft. x 48 ft. (PFF El. 657.5)
7. Announcers Booth at southern baseball stadium - 20 ft. x 20 ft. (PFF El. 632)

This report presents the findings of a subsurface investigation prepared and conducted by others specifically for this project, as well as recommendations for foundation design and construction of the proposed new structures.

## GEOLOGY

Based on our review of topographic maps and published geologic data for this area of Southeast, including the *Surficial Geologic Map of New York - Lower Hudson Sheet*, 1989, by Caldwell, Connally, et. al., this site is expected to be underlain by glacial till deposits consisting of a mixture of grain sizes ranging from clay and silt, to sand, cobbles and boulders. Underlying bedrock is expected to consist of biotite-quartz- gneiss, and amphibolite-gneiss based on the (*Bedrock*) *Geologic Map of New York - Lower Hudson Sheet*, 1970, by Rickard, Isachsen, and Fisher, and be deeper than 20 ft.

## SUBSURFACE INVESTIGATION

Soiltesting, Inc. of Oxford, CT performed forty (40) borings between June 16 and June 21, 2021 to identify the subsurface conditions present beneath the project site. Borings BE-1 through BE-6 were performed at the locations of the proposed stormwater management basins, borings C-1 through C-11 were performed at locations of proposed buildings, and borings BP-2 through BP-12A were performed across the general project/sports fields footprints. Note that borings BP-1, BP-6,, and BP-8 were not drilled, and thirty-four (34) second-attempt borings were performed adjacent to originally-drilled borings.



All borings were drilled using a nominal 4-¼ in. hollow stem auger to advance and maintain the hole. Sampling was performed using a 2 in. O.D. split spoon sampler driven by a 140 lb. safety hammer with a 30 in. drop and the number of blows for each 6 in. increment was recorded, in accordance with procedures outlined in ASTM D1586, Standard Test Method for Standard Penetration Test (SPT) and Split-Barrel Sampling of Soils. The "C-" borings were sampled generally continuously from the ground surface to a depth of 12 ft., or until spoon or auger refusal was reached; all other borings were sampled generally at the ground surface then at 5 ft. intervals to the completion of each boring. All borings were terminated at depths ranging from 6 in. to 17 ft.

Soil samples were classified by an experienced geologist from Soiltesting, Inc., in general accordance with D.M. Burmister's "Suggested Test Methods for Identification of Soils" (ASTM, 1958).

The depth to groundwater was determined during drilling since all borings were drilled using a hollow stem auger without the introduction of water. Additionally, two (2) temporary groundwater observation wells were installed after the completion of borings BE-4 and C-9, both near the center of the site. The wells were installed to depths of 17 ft. and 15 ft., respectively, and the depths to groundwater were measured 16 and 19 days after installation.

A Boring Location Plan and boring logs are presented in the Appendix. The boring logs were amended by Skylands Engineering to include estimated ground and groundwater elevations, which we estimated based on the Boring Location Plan provided to us.

## **LABORATORY TESTING**

Following the completion of the field portion of the subsurface investigation, a laboratory testing program was performed to confirm and provide additional soil classifications and properties. In total, twelve (12) grain size analyses were performed on soil samples from eight (8) borings. Soil samples were tested by our associated laboratory, Skylands Testing, LLC also of Sparta, New Jersey. The results of the test programs are discussed in the following section and presented in the Appendix.

## **SUBSURFACE CONDITIONS**

The subsurface conditions encountered beneath the site are generally consistent with the published geologic literature, with glacial till present over relatively shallow bedrock. Topsoil thicknesses ranged from 0 in. to 8 in., with a mean thickness of 3.75 in. Beneath the topsoil and surficial layers, medium dense to very dense, light brown to gray silt with lesser amounts of medium to fine sand and generally trace amounts of coarse to fine gravel are present in the overburden. Cobbles and, to a lesser degree, boulders were encountered frequently and at various depths within the project limits. No areas of overlying loose or soft soils, and no deposits of fill or organic soils were encountered at the boring locations.

Bedrock or suspected bedrock was encountered at all but one (1) of the 43 boring locations at depths ranging from 0 ft. (at the ground surface) to 17 ft. Auger refusal was used to estimate the top of presumed bedrock.

Dry soils were encountered above bedrock during drilling at all but two (2) borings. Boring BE-4 encountered groundwater at a depth of 15 ft. during drilling; three (3) days after installation of a temporary groundwater observation well groundwater rose 4.5 ft. and then remained constant at a

depth of 10.7 ft. (El. 667.3). Similarly, boring C-9 encountered groundwater at a depth of 15 ft. during drilling; beginning eleven (11) days after installation of a temporary groundwater observation well groundwater rose 6.5 ft. and then remained constant at a depth of 8.7 ft. (El. 684.3).

A tabular summary of key findings of the borings, along with the individual boring logs containing specific information at each boring location, are included in the Appendix.

## DESIGN RECOMMENDATIONS

### BUILDINGS

Based on our review of the findings of this subsurface investigation program, along with known and assumed depths of foundations for the seven (7) proposed buildings, it is recommended that conventional shallow foundations (footings) are suitable for support of the new buildings. The recommended footing/frost depth for Putnam County is 48 in. below final exterior grade therefore bottoms of footings should be located at or below this depth, or directly on bedrock, to prevent possible frost heave damage. Based on a review of listed and assumed finish floor elevations, some buildings' footings will be founded on bedrock, some will be founded on structural fill above existing grade, and some will be founded on loose in-situ soil.

Following clearing and grubbing of all topsoil, stumps, roots, etc., the following subgrade preparation procedures are recommended for each of the seven (7) buildings.

**Office/Training Building** – this building's footings are expected to be founded on bedrock, loose in-situ soil, and on structural fill above existing ground. In order to provide uniform support and limit differential settlements, it is recommended to remove 12 in. of in situ soil where present at the bottom of footing, compact the bottom of the excavation, then place structural fill back up to the bottom of footing elevation. Following this procedure, an allowable bearing capacity of 2 tsf and a coefficient of base sliding of 0.40 is recommended for design, regardless of whether the footings are founded on rock, or structural fill. Minimum footing widths of 20 in. for wall footings and 30 in. for column footings are recommended to limit settlements.

**Concession/restroom Building at northern multi-sport fields** – this building's footings are expected to be founded on loose in-situ soil. In order to provide uniform support and limit differential settlements it is recommended to remove 12 in. of in situ soil from beneath the bottom of footing excavation, compact the footing subgrade, then place structural fill back up to the bottom of footing. Following this procedure, an allowable bearing capacity of 2 tsf and a coefficient of base sliding of 0.40 is recommended for design. Minimum footing widths of 18 in. for wall footings and 30 in. for any column footings are recommended to limit settlements.

**Announcers Booth at baseball fields** – this building's footings are expected to be founded on weathered or unweathered bedrock therefore footings may be designed using an allowable bearing capacity of 3 tsf and a coefficient of base sliding of 0.5. A minimum footing width of 18 in. for both wall and column footings is recommended for constructability.

**Outbuilding northeast of little league fields** – this building's footings are expected to be founded on structural fill above existing ground. Following clearing and grubbing operations, the building footprint should be compacted prior to placing new structural fill. An allowable bearing capacity of 2 tsf and a

coefficient of base sliding of 0.45 is recommended for design atop the structural fill. Minimum footing widths of 20 in. for wall footings and 30 in. for any column footings are recommended to limit settlements.

**Announcers Booth at little league fields** – this building’s footings are expected to be founded on weathered or unweathered bedrock therefore footings may be designed using an allowable bearing capacity of 3 tsf and a coefficient of base sliding of 0.5. A minimum footing width of 18 in. for both wall and column footings is recommended for constructability.

**Maintenance Shed** – this building’s footings are expected to be founded on weathered or unweathered bedrock therefore footings may be designed using an allowable bearing capacity of 3 tsf and a coefficient of base sliding of 0.5. A minimum footing width of 18 in. for both wall and column footings is recommended for constructability.

**Announcers Booth at southern baseball stadium** – this building’s footings are expected to be founded on weathered or unweathered bedrock therefore footings may be designed using an allowable bearing capacity of 3 tsf and a coefficient of base sliding of 0.5. A minimum footing width of 18 in. for both wall and column footings is recommended for constructability.

Following the above recommendations, maximum post construction settlements are estimated to be ½ in., with ≤¼ in. differential settlement between adjacent columns at the Office/Training Building. These values are within generally accepted tolerance limits for these types of structures and use. Settlement will be elastic (instantaneous), with no long-term consolidation settlement occurring.

New first floor slabs in all buildings may be constructed as conventional slabs-on-grade following removal of the surficial topsoil, proof rolling and compaction of the subgrade, and placement and compaction of any structural fill and/or capillary break material. Where bedrock is present above the slab elevation, the bedrock should be removed to a minimum depth of 12 in. below the slab to allow for uniform support of the slab. The subgrade should be compacted using a 10 T vibratory roller away from building walls and footings, and a double-drum, vibratory padfoot trench compactor (ex., Rammax) adjacent to walls, footings, etc. A minimum of four (4) passes should be made with the compactor, and until no further settlement is visible. A modulus of subgrade reaction 150 pci is recommended for design of these slabs.

In accordance with the provisions of Section 1613.3.2 of the New York 2015 Building Code, and ASCE 7 Chapter 20, a seismic site class of B, rock, is recommended for design of buildings with footings located within 10 ft. of the top of bedrock. A seismic site class of C should be used for buildings with footings higher than 10 ft. above bedrock.

There is no evidence of past slope instability and none is expected under static or seismic loading.

The soils at this site are non-liquefiable based on their suitably high relative density, silt content, and lack of groundwater.



Organic soils were not encountered in the borings other than the surficial topsoil; however, if organic soils are encountered they should be removed completely from beneath the limits of the building and replaced with compacted structural fill. Organic soils should not be used as site or structural backfill, but should be removed offsite.

Cobbles and boulders are expected to be encountered throughout the horizontal and vertical extents of work. Any cobbles or boulders encountered during construction should be removed so that no part protrudes into the bottom or sides of foundation, retaining wall, or utility excavations.

Dewatering is not expected to be required during foundation construction since groundwater was not encountered within most of the borings. During periods of precipitation, standard construction trash pumps set in sumps should be sufficient to handle the expected inflows.

Structural fill material should consist of predominately well-graded, coarse to fine sand and/or gravel with a maximum 10% non-plastic fines (material passing a No. 200 sieve) and be free of organics and other deleterious materials. Aggregate size should be limited to no bigger than 1 in. in the largest dimension. Based on the findings of this subsurface investigation, it is estimated that very little to none of the in situ materials may be suitable for reuse as structural fill. The in situ soils should be suitable for reuse as general site fill, however. Representative samples of all proposed fill materials should be tested for gradation and moisture-density relationship prior to use to confirm its suitability.

Structural and general site fill should be placed in maximum 12 in. loose lifts and compacted to 95% of its maximum dry density at optimum moisture content as determined by the Modified Proctor Density Test (ASTM D 1557). These operations should be performed under full-time geotechnical inspection and testing by either the Sand Cone Method (ASTM D 1556), Nuclear Density Gauge (ASTM D6938) or other moisture/density test methods. These density tests should be performed by an experienced geotechnical inspector at sufficient frequency and spacing to ensure proper compaction, with the following criteria suggested as guidelines:

Location	Frequency of Testing
Structural fill beneath foundations, adjacent to structures & beneath slabs-on-grade	1 test every 2,500 SF min. 1 test per lift
Utility trenches	1 test every 50-100 LF per lift min. 3 tests per day
General site fill (beyond building limits)	1 test every 5,000 SF per lift min. 1 test per lift

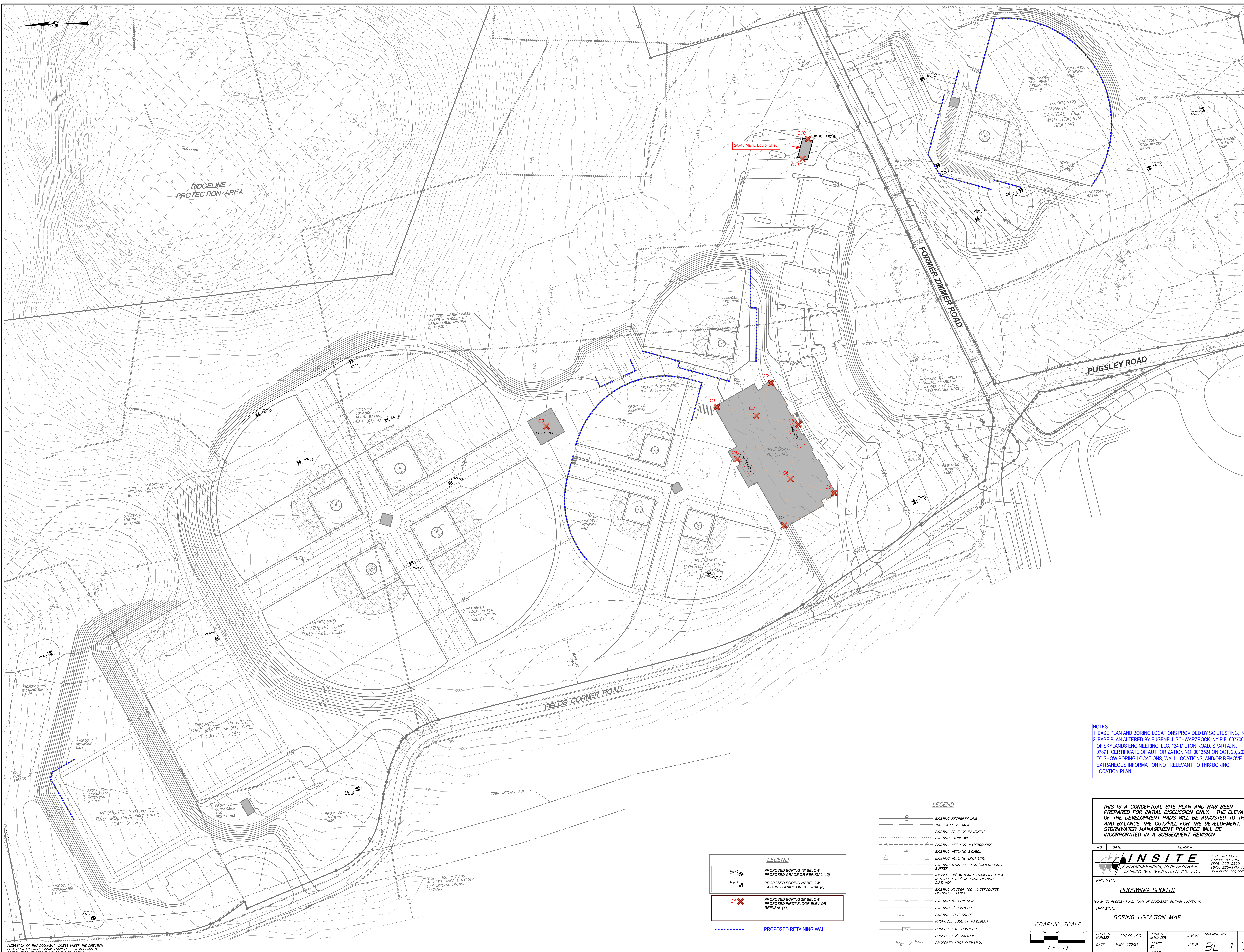
Drying or wetting of the fill soils should be performed to ensure proper moisture contents during compaction. Overly wet soils may need to be disked and allowed to dry for a day or more, and as weather permits, in order to be usable. These operations should be scheduled to take advantage of dry, windy, and/or hot weather patterns to facilitate rapid moisture loss. These operations should not be scheduled for winter months (November through March).

For excavations that extend deeper than 5 ft., sheeting, shoring, sloping, or benching of the excavation sidewalls is required per OSHA standards. Considering the open space and variable depth to bedrock at this site, all the above-mentioned means may be suitable for use at this project. Based upon the material characteristics and estimated strength of the soils encountered during the subsurface exploration, the soil present on site may be assumed to be Type C and should be sloped at a 1.5H:1V (34°) per OSHA requirements. For the design of temporary sheeting or shoring, the soil properties listed above for retaining wall design are recommended. All sheeting, shoring and bracing shall be designed by a professional engineer licensed in the State of New York.

It is recommended that all foundation construction and subgrade preparation procedures, as well as earthworks for pavements, parking lots, retaining walls, etc. be inspected by a qualified geotechnical engineer experienced with these types of construction. Full time inspection is recommended during stripping and proof-rolling, and fill placement to ensure similar conditions as described in the borings and this report are encountered, adequate testing is performed, and moisture contents are maintained at suitable levels.



# **APPENDIX**



RIDGELINE PROTECTION AREA

FORMER ZIMMER ROAD

PUGSLEY ROAD

FIELDS CORNER ROAD

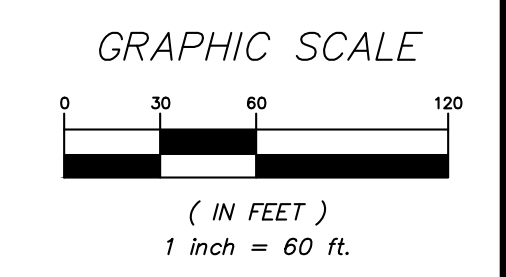
NOTES:  
 1. BASE PLAN AND BORING LOCATIONS PROVIDED BY SOILTESTING, INC.  
 2. BASE PLAN ALTERED BY EUGENE J. SCHWARZROCK, NY P.E. 0077007-1 OF SKYLANDS ENGINEERING, LLC, 124 MILTON ROAD, SPARTA, NJ 07871, CERTIFICATE OF AUTHORIZATION NO. 0013524 ON OCT. 20, 2021 TO SHOW BORING LOCATIONS, WALL LOCATIONS, AND/OR REMOVE EXTRANEOUS INFORMATION NOT RELEVANT TO THIS BORING LOCATION PLAN.

**LEGEND**

BP1	PROPOSED BORING 10' BELOW PROPOSED GRADE OR REFUSAL (12)
BE1	PROPOSED BORING 20' BELOW EXISTING GRADE OR REFUSAL (6)
C1	PROPOSED BORING 25' BELOW PROPOSED FIRST FLOOR ELEV OR REFUSAL (11)
.....	PROPOSED RETAINING WALL

**LEGEND**

---	EXISTING PROPERTY LINE
---	100' YARD SETBACK
---	EXISTING EDGE OF PAVEMENT
---	EXISTING STONE WALL
---	EXISTING WETLAND WATERCOURSE
---	EXISTING WETLAND SYMBOL
---	EXISTING WETLAND LIMIT LINE
---	EXISTING TOWN WETLAND/WATERCOURSE BUFFER
---	NYSDEC 100' WETLAND ADJACENT AREA & NYSDEC 100' WETLAND LIMITING DISTANCE
---	EXISTING NYSDEC 100' WATERCOURSE LIMITING DISTANCE
---	EXISTING 10' CONTOUR
---	EXISTING 2' CONTOUR
---	EXISTING SPOT GRADE
---	PROPOSED EDGE OF PAVEMENT
---	PROPOSED 10' CONTOUR
---	PROPOSED 2' CONTOUR
---	PROPOSED SPOT ELEVATION



THIS IS A CONCEPTUAL SITE PLAN AND HAS BEEN PREPARED FOR INITIAL DISCUSSION ONLY. THE ELEVATION OF THE DEVELOPMENT PADS WILL BE ADJUSTED TO TRY AND BALANCE THE CUT/FILL FOR THE DEVELOPMENT. STORMWATER MANAGEMENT PRACTICE WILL BE INCORPORATED IN A SUBSEQUENT REVISION.

NO.	DATE	REVISION	BY
<b>INSITE</b> ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE, P.C.			
PROJECT: PROSWING SPORTS			
160 & 132 PUGSLEY ROAD, TOWN OF SOUTHEAST, PUTNAM COUNTY, NY			
DRAWING: BORING LOCATION MAP			
PROJECT NUMBER	19249.100	PROJECT MANAGER	J.M.W.
DATE	REV. 4/30/21	DRAWN BY	J.F.R.
SCALE	1" = 60'	CHECKED BY	K.M.C.
			DRAWING NO. SHEET
			BL-1 / 1

ALTERATION OF THIS DOCUMENT, UNLESS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, IS A VIOLATION OF SECTION 7209 OF ARTICLE 145 OF THE EDUCATION LAW.

## **Data Summary Table**

**ProSwing Sports  
Southeast, NY**

**BORING DATA**

Boring	Ground	Topsoil	Possible Weathered Rock		Auger Refusal		GWT		Notes
	Elev., ft.	Depth, in.	Depth, ft.	Elev., ft.	Depth, ft.	Elev., ft.	Depth, ft.	Elev., ft.	
BE-1	634	6			11	623	-		
BE-2	639	2	12	627	14	625	-		
BE-3	678	3	11.5	666.5	13	665	-		
BE-4*	678	4	15.5	662.5	17	661	10.7	667.3	
BE-5	618	6	4.5	613.5	5	613	-		
BE-6	601	3			1	600	-		
BP-1	690	0			0		-		Bedrock at surface
BP-2	729	6	10	719	11	718	-		
BP-2A	729				10	719	-		
BP-3	721	3	5	716	5.5	715.5	-		
BP-3A	721		1.2	719.8	2	719	-		
BP-4	732	6	5.5	726.5	8	724	-		
BP-4A	732				7	725	-		
BP-5	721	6			2.5	718.5	-		
BP-5A	721				3.5	717.5	-		
BP-6	716	0			0		-		Bedrock at surface
BP-7	712	2			1.7	710.3	-		
BP-7A	712				2	710	-		
BP-8	710	0			0		-		Bedrock at surface
BP-9	648	6			0.5	647.5	-		
BP-9A	648	6			0.5	647.5	-		
BP-10	646	4	4.5	641.5	9	637	-		
BP-11	653	4			4	649	-		
BP-11A	653				4	649	-		
BP-12	649	6			1	648	-		
BP-12A	649				0.5	648.5	-		
C-1	690	3	4.2	685.8	6.5	683.5	-		
C-1A	690				6	684	-		
C-2	682	2	2	680	3.5	678.5	-		
C-2A	682		2	680	4	678	-		
C-3	685	6	5	680	6	679	-		
C-3A	685				4.5	680.5	-		

**ProSwing Sports  
Southeast, NY**

**BORING DATA**

Boring	Ground	Topsoil	Possible Weathered Rock		Auger Refusal		GWT		Notes
	Elev., ft.	Depth, in.	Depth, ft.	Elev., ft.	Depth, ft.	Elev., ft.	Depth, ft.	Elev., ft.	
C-4	693				1	692	-		
C-4A	693				1	692	-		
C-5	682	8			5.5	676.5	-		
C-5A	682				6.6	675.4	-		
C-6	688	2			14	674	-		
C-7	695	4			5	690	-		
C-7A	695				5.5	689.5	-		
C-8	686	4	9.5	676.5	10.2	675.8	-		
C-9*	693	3	10	683			<b>8.7</b>	684.3	Possible bedrock at 15.5 ft.
C-10	658	4	3.5	654.5	4.3	653.7	-		
C-11	662	0	0		4	658	-		Bedrock at surface

Notes:

\* - temporary GW observation well installed

-- not encountered

GWT readings in bold indicate readings from a GW well

# Boring Logs

<b>SOILTESTING, INC.</b> 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: <b>KG&amp;D Architects</b>	SHEET <u>1</u> OF <u>1</u>
	PROJECT NO. <b>G128-1831-21</b>	HOLE NO. <b>BE-1</b>
	PROJECT NAME <b>ProSwing Sports</b>	BORING LOCATIONS Per Plan
FOREMAN - DRILLER <b>AK/ef</b>	LOCATION <b>#160 &amp; 132 Pugsley Road Southeast NY</b>	
INSPECTOR	CASING TYPE <b>HSA</b>	SAMPLER <b>SS*</b>
GROUND WATER OBSERVATIONS AT <u>None</u> FT AFTER <u>0</u> HOURS AT <u>  </u> FT AFTER <u>  </u> HOURS	SIZE I.D. <b>4 1/4"</b>	1 <b>3/8"</b>
	HAMMER WT. <b>140#</b>	BIT
	HAMMER FALL <b>30"</b>	CORE BAR
		OFFSET
		DATE START <b>6/17/21</b>
		DATE FINISH <b>6/17/21</b>
		SURFACE ELEV. <b>EI. ±634</b>
		GROUND WATER ELEV.

DEPTH	CASING BLOWS PER FOOT	SAMPLE					BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE)			CORE TIME PER FT (MIN)	DENSITY OR CONSIST	STRATA CHANGE DEPTH	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
		NO	Type	PEN	REC	DEPTH @ BOT	0 - 6 6 - 12 12 - 18						
							1	2					
5		1	ss	24"	22"	2'0"	1	2		soft dry		6" Top soil Lt brn silt, some F-M sand, trace C sand	
							2	2					
10		2	ss	18"	14"	6'6"	37	26		hard dry		Lt brn silt, some F-M sand, lit F gravel, cobbles, trace C sand cobbles, boulders 5'-10'	
							22						
15		3	ss	18"	15"	11'6"	21	14		hard moist	11'	Lt brn silt, some F-M sand, lit F gravel Auger Refusal EOB 11'	
							26						
20													
25													
30													
35													
40													

**NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.** \*Cat Head & Rope

GROUND SURFACE TO \_\_\_\_\_ FT. USED \_\_\_\_\_ CASING THEN \_\_\_\_\_ CASING TO \_\_\_\_\_ FT. HOLE NO. **BE-1**

A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST  
 WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS C = COARSE  
 SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER M = MEDIUM  
 PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND = 35 - 50% F = FINE

<b>SOILTESTING, INC.</b> 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: <b>KG&amp;D Architects</b>	SHEET <u>1</u> OF <u>1</u>
	PROJECT NO. <b>G128-1831-21</b>	HOLE NO. <b>BE-2</b>
	PROJECT NAME <b>ProSwing Sports</b>	BORING LOCATIONS Per Plan
FOREMAN - DRILLER <b>AK/ef</b>	LOCATION <b>#160 &amp; 132 Pugsley Road Southeast NY</b>	
INSPECTOR	CASING TYPE <b>HSA</b>	SAMPLER <b>SS*</b>
GROUND WATER OBSERVATIONS AT <u>None</u> FT AFTER <u>0</u> HOURS AT <u>  </u> FT AFTER <u>  </u> HOURS	SIZE I.D. <b>4 1/4"</b>	CORE BAR
	HAMMER WT.	OFFSET
	HAMMER FALL	DATE START <b>6/17/21</b>
		DATE FINISH <b>6/17/21</b>
		SURFACE ELEV. <b>El. ±639</b>
		GROUND WATER ELEV.

DEPTH	CASING BLOWS PER FOOT	SAMPLE					BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE)			CORE TIME PER FT (MIN)	DENSITY OR CONSIST	STRATA CHANGE DEPTH	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
		NO	Type	PEN	REC	DEPTH @ BOT	0 - 6	6 - 12	12 - 18				
5		1	ss	24"	13"	2'0"	1	2		soft dry	12'	2" Top soil Lt brn silt, some F-M sand, trace F gravel, C sand	
						2	3						
10		2	ss	18"	12"	6'6"	4	6		stiff moist	14'	Lt brn silt, some F-C sand, trace F gravel	
						7							
15		3	ss	18"	18"	11'6"	14	16		hard dry	14'	Cobbles at 10' Lt brn gry silt, some F- sand, lit F gravel, trace C sand	
						19							
20												Partly decomposed fractured Bedrock or Boulders Auger Refusal	
25												EOB 14'	
30													
35													
40													

**NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.** **\*Cat Head & Rope**

GROUND SURFACE TO _____ FT. USED _____ CASING THEN _____ CASING TO _____ FT.	<b>HOLE NO. BE-2</b>
A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST	
WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS	C = COARSE
SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER	M = MEDIUM
PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND = 35 - 50%	F = FINE

<b>SOILTESTING, INC.</b> 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: <b>KG&amp;D Architects</b>	SHEET <u>1</u> OF <u>1</u>
	PROJECT NO. <b>G128-1831-21</b>	HOLE NO. <b>BE-3</b>
	PROJECT NAME <b>ProSwing Sports</b>	BORING LOCATIONS Per Plan
FOREMAN - DRILLER <b>AK/ef</b>	LOCATION <b>#160 &amp; 132 Pugsley Road Southeast NY</b>	
INSPECTOR	CASING TYPE <b>HSA</b>	SAMPLER <b>SS*</b>
GROUND WATER OBSERVATIONS AT <u>None</u> FT AFTER <u>0</u> HOURS AT <u>  </u> FT AFTER <u>  </u> HOURS	SIZE I.D. <b>4 1/4"</b>	CORE BAR <b>1 3/8"</b>
	HAMMER WT. <b>140#</b>	BIT
	HAMMER FALL <b>30"</b>	GROUND WATER ELEV.

DEPTH	CASING BLOWS PER FOOT	SAMPLE					BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE)			CORE TIME PER FT (MIN)	DENSITY OR CONSIST	STRATA CHANGE DEPTH	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
		NO	Type	PEN	REC.	DEPTH @ BOT	0 - 6	6 - 12	12 - 18				
5		1	ss	24"	13"	20"	2	2			soft dry		3" Top soil Lt brn silt, some F-M sand, trace F gravel, C sand
							2	7					
10		2	ss	18"	14"	6'6"	5	5			stiff dry		Lt brn silt some F-M sand, trace F gravel, C sand Boulder, cobble 6'-7' Boulder, cobble 8'-10'
							5						
15		3	ss	18"	18"	11'6"	7	10			hard dry	13'	Lt brn gry silt some F-M sand, lit F gravel, trace C sand Boulders, cobbles 10'6"-13' Possible fractured Bedrock from 11'6" Auger Refusal
							27						EOB 13'
20													
25													
30													
35													
40													

**NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.** **\*Cat Head & Rope**

GROUND SURFACE TO _____ FT. USED _____ CASING THEN _____ CASING TO _____ FT.	<b>HOLE NO. BE-3</b>
A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST	
WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS	C = COARSE
SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER	M = MEDIUM
PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND = 35 - 50%	F = FINE

<b>SOILTESTING, INC.</b> 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: <b>KG&amp;D Architects</b>	SHEET <u>1</u> OF <u>1</u>
	PROJECT NO. <b>G128-1831-21</b>	HOLE NO. <b>BE-4</b>
	PROJECT NAME <b>ProSwing Sports</b>	BORING LOCATIONS Per Plan
FOREMAN - DRILLER <b>AK/ef</b>	LOCATION <b>#160 &amp; 132 Pugsley Road Southeast NY</b>	
INSPECTOR	CASING TYPE <b>HSA</b> SAMPLER <b>SS*</b> CORE BAR	OFFSET
GROUND WATER OBSERVATIONS AT <u>15</u> FT AFTER <u>0</u> HOURS AT <u>10'6"</u> FT on 6/21/21	SIZE I.D. <b>4 1/4"</b> <b>1 3/8"</b>	DATE START <b>6/18/21</b>
AT <u>10'9"</u> FT on 7/2/21	HAMMER WT. <b>140#</b> BIT	DATE FINISH <b>6/18/21</b>
AT <u>10'9"</u> FT on 7/7/21	HAMMER FALL <b>30"</b>	SURFACE ELEV. <b>El. ±678</b>
		GROUND WATER ELEV.

DEPTH	CASING BLOWS PER FOOT	SAMPLE					BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE)			CORE TIME PER FT (MIN)	DENSITY OR CONSIST	STRATA CHANGE DEPTH	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
		NO	Type	PEN	REC	DEPTH @ BOT	0-6	6-12	12-18				
5		1	ss	24"	18"	2'0"	2	2		stiff moist		4" Top soil Brn silt some F-M sand, lit C sand	
						3	3					Cobbles 2-5'	
10		2	ss	24"	24"	7'0"	8	9		v stiff dry		Lt brn silt some F-M sand, trace F gravel, lit C sand Cobbles, Boulders Boulders 8'-10'	
						13	33						
15		3	ss	24"	20"	12'0"	19	29		hard dry v dense		Lt brn gry silt & F-M sand, lit C sand, lit C gravel Cobbles, Boulders 13'-15'	
						31	38						
20		4	ss	10"	4"	15'10"	25	50/4"		wet	15'6"	Blk F-M sand some silt	
											17'	Partly decomposed Bedrock or Boulder, Auger Refusal	
												EOB 17'	
25													
30													
35													
40													

**NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.** \*Cat Head & Rope

GROUND SURFACE TO \_\_\_\_\_ FT. USED \_\_\_\_\_ CASING THEN \_\_\_\_\_ CASING TO \_\_\_\_\_ FT. HOLE NO. **BE-4**

A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST  
 WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS C = COARSE  
 SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER M = MEDIUM  
 PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND = 35 - 50% F = FINE

<b>SOILTESTING, INC.</b> 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: <b>KG&amp;D Architects</b>	SHEET <u>1</u> OF <u>1</u>
	PROJECT NO. <b>G128-1831-21</b>	HOLE NO. <b>BE-5</b>
	PROJECT NAME <b>ProSwing Sports</b>	BORING LOCATIONS Per Plan
FOREMAN - DRILLER <b>AK/ef</b>	LOCATION <b>#160 &amp; 132 Pugsley Road Southeast NY</b>	
INSPECTOR	TYPE	CASING    SAMPLER    CORE BAR    OFFSET
GROUND WATER OBSERVATIONS AT <u>None</u> FT AFTER <u>0</u> HOURS AT <u>  </u> FT AFTER <u>  </u> HOURS	SIZE I.D.	HSA    SS*    _____    DATE START    6/21/21
	HAMMER WT.	_____    140#    BIT    DATE FINISH    6/21/21
	HAMMER FALL	_____    30"    _____    SURFACE ELEV. <b>El. ±618</b>
		_____    _____    _____    GROUND WATER ELEV.

DEPTH	CASING BLOWS PER FOOT	SAMPLE					BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE)			CORE TIME PER FT (MIN)	DENSITY OR CONSIST	STRATA CHANGE DEPTH	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.		
		NO	Type	PEN	REC.	DEPTH @ BOT	0 - 6   6 - 12   12 - 18							MOIST	ELEV
5		1	ss	24"	20"	20"	1	2		soft		6" Top soil			
							2	2		dry		Lt brn silt, some F-M sand, trace C sand, F gravel			
5											4'6"				
		2	ss	2"	2"	5'2"	50/2"			hard	5'2"	Wht/gry silt, Bedrock or Boulder fragments, Auger Refusal @ 5'			
										dry		EOB 5'2"			
10															
15															
20															
25															
30															
35															
40															

**NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.**      \*Cat Head & Rope

GROUND SURFACE TO _____ FT. USED _____ CASING THEN _____ CASING TO _____ FT.	HOLE NO. <b>BE-5</b>
A = AUGER    UP = UNDISTURBED PISTON    T = THINWALL    V = VANE TEST	
WOR = WEIGHT OF RODS    WOH = WEIGHT OF HAMMER & RODS	C = COARSE
SS = SPLIT TUBE SAMPLER    H.S.A. = HOLLOW STEM AUGER	M = MEDIUM
PROPORTIONS USED: TRACE = 0 - 10%    LITTLE = 10 - 20%    SOME = 20 - 35%    AND = 35 - 50%	F = FINE

<b>SOILTESTING, INC.</b> 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: <b>KG&amp;D Architects</b>	SHEET <u>1</u> OF <u>1</u>
	PROJECT NO. <b>G128-1831-21</b>	HOLE NO. <b>BE-6</b>
	PROJECT NAME <b>ProSwing Sports</b>	BORING LOCATIONS Per Plan
FOREMAN - DRILLER <b>AK/ef</b>	LOCATION <b>#160 &amp; 132 Pugsley Road Southeast NY</b>	
INSPECTOR	CASING TYPE <b>HSA</b>	SAMPLER <b>SS*</b>
GROUND WATER OBSERVATIONS AT <u>None</u> FT AFTER <u>0</u> HOURS AT <u>   </u> FT AFTER <u>   </u> HOURS	SIZE I.D. <b>4 1/4"</b>	CORE BAR
	HAMMER WT.	OFFSET
	HAMMER FALL	DATE START <b>6/21/21</b>
		DATE FINISH <b>6/21/21</b>
		SURFACE ELEV. <b>EI. ±601</b>
		GROUND WATER ELEV.

DEPTH	CASING BLOWS PER FOOT	SAMPLE					BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE) 0 - 6 6 - 12 12 - 18	CORE TIME PER FT (MIN)	DENSITY OR CONSIST	STRATA CHANGE DEPTH	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
		NO	Type	PEN	REC	DEPTH @ BOT					
									1'	3" Top soil / Brn F-M sand & silt	
								dry		EOB 10" Auger Refusal	
5											
10											
15											
20											
25											
30											
35											
40											

**NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.** **\*Cat Head & Rope**

GROUND SURFACE TO _____ FT. USED _____ CASING THEN _____ CASING TO _____ FT.	HOLE NO. <b>BE-6</b>
A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST	
WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS	C = COARSE
SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER	M = MEDIUM
PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND = 35 - 50%	F = FINE



<b>SOILTESTING, INC.</b> 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: <b>KG&amp;D Architects</b>	SHEET <u>1</u> OF <u>1</u>
	PROJECT NO. <b>G128-1831-21</b>	HOLE NO. <b>BP-2</b>
	PROJECT NAME <b>ProSwing Sports</b>	BORING LOCATIONS Per Plan
FOREMAN - DRILLER <b>AK/ef</b>	LOCATION <b>#160 &amp; 132 Pugsley Road Southeast NY</b>	
INSPECTOR	CASING TYPE <b>HSA</b>	SAMPLER <b>SS*</b>
GROUND WATER OBSERVATIONS AT <u>None</u> FT AFTER <u>0</u> HOURS AT <u>  </u> FT AFTER <u>  </u> HOURS	SIZE I.D. <b>4 1/4"</b>	1 3/8"
	HAMMER WT. <b>140#</b>	BIT
	HAMMER FALL <b>30"</b>	
	OFFSET	
	DATE START	<b>6/16/21</b>
	DATE FINISH	<b>6/16/21</b>
	SURFACE ELEV.	<b>El. ±729</b>
	GROUND WATER ELEV.	

DEPTH	CASING BLOWS PER FOOT	SAMPLE					BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE)			CORE TIME PER FT (MIN)	DENSITY OR CONSIST	STRATA CHANGE DEPTH	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
		NO	Type	PEN	REC	DEPTH @ BOT	0 - 6	6 - 12	12 - 18				
5		1	ss	24"	11"	20"	2	5		compact dry-moist	0'9"	6" Top soil	
						6	3		Bk F-M sand, lit F gravel				
10		2	ss	18"	12"	6'6"	12	23		hard dry-moist	11'	Lt red brn silt, lit F-M sand, lit cobbles 1'6"-2'6"	
						50			Lt brn silt some F-M sand, trace C sand, F gravel Lit cobbles, Boulders 7'6"-10'				
15		3	ss	2"	2"	10'2"	50/2"			v dense dry	11'	Partly decomposed bedrock or Boulder fragments Bedrock or Boulder 10-11', Auger Refusal	
												EOB 11'	
20										dry-moist	10'	Offset 10' North to BP-2A	
												Cobbles 2-3"	
25										dry-moist	10'	Cobbles 5-10'	
												Auger Refusal	
30										dry-moist	10'	EOB 10'	
35										dry-moist	10'		
40										dry-moist	10'		
45										dry-moist	10'		
50										dry-moist	10'		
55										dry-moist	10'		
60										dry-moist	10'		
65										dry-moist	10'		
70										dry-moist	10'		
75										dry-moist	10'		
80										dry-moist	10'		
85										dry-moist	10'		
90										dry-moist	10'		
95										dry-moist	10'		
100										dry-moist	10'		

**NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.** \*Cat Head & Rope

GROUND SURFACE TO \_\_\_\_\_ FT. USED \_\_\_\_\_ CASING THEN \_\_\_\_\_ CASING TO \_\_\_\_\_ FT. **HOLE NO. BP-2**

A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST  
 WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS C = COARSE  
 SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER M = MEDIUM  
 PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND = 35 - 50% F = FINE

<b>SOILTESTING, INC.</b> 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: <b>KG&amp;D Architects</b>	SHEET <u>1</u> OF <u>1</u>
	PROJECT NO. <b>G128-1831-21</b>	HOLE NO. <b>BP-3</b>
	PROJECT NAME <b>ProSwing Sports</b>	BORING LOCATIONS Per Plan
FOREMAN - DRILLER <b>AK/ef</b>	LOCATION <b>#160 &amp; 132 Pugsley Road Southeast NY</b>	
INSPECTOR	CASING    SAMPLER    CORE BAR	OFFSET
GROUND WATER OBSERVATIONS AT <u>None</u> FT AFTER <u>0</u> HOURS AT <u>  </u> FT AFTER <u>  </u> HOURS	TYPE	HSA    SS*
	SIZE I.D.	4 1/4"    1 3/8"
	HAMMER WT.	140#    BIT
	HAMMER FALL	30"
		DATE START    6/16/21
		DATE FINISH    6/16/21
		SURFACE ELEV. <b>El. ±721</b>
		GROUND WATER ELEV.

DEPTH	CASING BLOWS PER FOOT	SAMPLE					BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE)			CORE TIME PER FT (MIN)	DENSITY OR CONSIST	STRATA CHANGE DEPTH	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
		NO	Type	PEN	REC.	DEPTH @ BOT	0 - 6   6 - 12   12 - 18						
							MOIST	ELEV					
5	1	ss	24"	20"	2'0"	2	2			stiff moist	5'	3" Top soil Red brn silt lit F-M sand, trace gravel Cobbles 0-5'	
	2	ss	2"	1/2"	5'2"	50/2"				v dense dry	5'6"	Blk Bedrock or Boulder fragments Auger Refusal EOB 5'6"	
10												Off set 20' South to BP-3A	
15													
20	BP-3A												
0										dry-moist	2'	Cobbles, Boulders 1-2" Auger Refusal EOB 2'	
5													
10													
15													

**NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.**      \*Cat Head & Rope

GROUND SURFACE TO \_\_\_\_\_ FT.    USED \_\_\_\_\_ CASING    THEN \_\_\_\_\_ CASING TO \_\_\_\_\_ FT.    **HOLE NO. BP-3**

A = AUGER    UP = UNDISTURBED PISTON    T = THINWALL    V = VANE TEST  
 WOR = WEIGHT OF RODS    WOH = WEIGHT OF HAMMER & RODS    C = COARSE  
 SS = SPLIT TUBE SAMPLER    H.S.A. = HOLLOW STEM AUGER    M = MEDIUM  
 PROPORTIONS USED: TRACE = 0 - 10%    LITTLE = 10 - 20%    SOME = 20 - 35%    AND = 35 - 50%    F = FINE



<b>SOILTESTING, INC.</b> 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: <u>KG&amp;D Architects</u>	SHEET <u>1</u> OF <u>1</u>
	PROJECT NO. <u>G128-1831-21</u>	HOLE NO. <u>BP-5</u>
	PROJECT NAME <u>ProSwing Sports</u>	BORING LOCATIONS Per Plan
FOREMAN - DRILLER <b>AK/ef</b>	LOCATION <u>#160 &amp; 132 Pugsley Road</u> <u>Southeast NY</u>	
INSPECTOR	CASING TYPE <u>HSA</u> SAMPLER <u>SS*</u> CORE BAR	OFFSET
GROUND WATER OBSERVATIONS AT <u>None</u> FT AFTER <u>0</u> HOURS AT <u>   </u> FT AFTER <u>   </u> HOURS	SIZE I.D. <u>4 1/4"</u> HAMMER WT. <u>140#</u> BIT	DATE START <u>6/16/21</u> DATE FINISH <u>6/16/21</u> SURFACE ELEV. <u>El. ±721</u> GROUND WATER ELEV.
	HAMMER FALL <u>30"</u>	

DEPTH	CASING BLOWS PER FOOT	SAMPLE					BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE)				CORE TIME PER FT (MIN)	DENSITY OR CONSIST	STRATA CHANGE DEPTH	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
		NO	Type	PEN	REC.	DEPTH @ BOT	0 - 6 6 - 12 12 - 18							
							0-6	6-12	12-18	18-24				
		1	ss	24"	12"	2'0"	1	1				soft		6" Top soil
							2	2				moist-vmoist	2'6"	Lt brn red silt some F-M sand trace F gravel, C sand Auger Refusal
5														EOB 2' 6"
														Offset 10' South to BP-5A
0														
													3'6"	Auger Refusal
5														EOB 3'6"
10														
15														
20														
25														
30														

**NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.** \*Cat Head & Rope

GROUND SURFACE TO \_\_\_\_\_ FT. USED \_\_\_\_\_ CASING THEN \_\_\_\_\_ CASING TO \_\_\_\_\_ FT. **HOLE NO. BP-5**

A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST  
 WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS C = COARSE  
 SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER M = MEDIUM  
 PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND = 35 - 50% F = FINE

<b>SOILTESTING, INC.</b> 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: <b>KG&amp;D Architects</b>	SHEET <u>1</u> OF <u>1</u>
	PROJECT NO. <b>G128-1831-21</b>	HOLE NO. <b>BP-6</b>
	PROJECT NAME <b>ProSwing Sports</b>	BORING LOCATIONS Per Plan
FOREMAN - DRILLER <b>AK/ef</b>	LOCATION <b>#160 &amp; 132 Pugsley Road Southeast NY</b>	
INSPECTOR	CASING    SAMPLER    CORE BAR	OFFSET
GROUND WATER OBSERVATIONS AT <u>None</u> FT AFTER <u>0</u> HOURS AT <u>  </u> FT AFTER <u>  </u> HOURS	TYPE	HSA    SS*
	SIZE I.D.	4 1/4"    1 3/8"
	HAMMER WT.	140#    BIT
	HAMMER FALL	30"
		DATE START    6/16/21
		DATE FINISH    6/16/21
		SURFACE ELEV. <b>El. ±716</b>
		GROUND WATER ELEV.

DEPTH	CASING BLOWS PER FOOT	SAMPLE					BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE) 0 - 6   6 - 12   12 - 18	CORE TIME PER FT (MIN)	DENSITY OR CONSIST	STRATA CHANGE DEPTH	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
		NO	Type	PEN	REC.	DEPTH @ BOT					
										Bedrock at ground surface	
5											
10											
15											
20											
25											
30											
35											
40											

**NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.**      \*Cat Head & Rope

GROUND SURFACE TO _____ FT. USED _____ CASING THEN _____ CASING TO _____ FT.	<b>HOLE NO.    BP-6</b>
A = AUGER    UP = UNDISTURBED PISTON    T = THINWALL    V = VANE TEST	
WOR = WEIGHT OF RODS    WOH = WEIGHT OF HAMMER & RODS	C = COARSE
SS = SPLIT TUBE SAMPLER    H.S.A. = HOLLOW STEM AUGER	M = MEDIUM
PROPORTIONS USED: TRACE = 0 - 10%    LITTLE = 10 - 20%    SOME = 20 - 35%    AND = 35 - 50%	F = FINE

<b>SOILTESTING, INC.</b> 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: <b>KG&amp;D Architects</b>	SHEET <u>1</u> OF <u>1</u>
	PROJECT NO. <b>G128-1831-21</b>	HOLE NO. <b>BP-7</b>
	PROJECT NAME <b>ProSwing Sports</b>	BORING LOCATIONS Per Plan
FOREMAN - DRILLER <b>AK/ef</b>	LOCATION <b>#160 &amp; 132 Pugsley Road Southeast NY</b>	
INSPECTOR	CASING TYPE <b>HSA</b>	SAMPLER <b>SS*</b>
GROUND WATER OBSERVATIONS AT <u>None</u> FT AFTER <u>0</u> HOURS AT <u>   </u> FT AFTER <u>   </u> HOURS	SIZE I.D. <b>4 1/4"</b>	CORE BAR <b>1 3/8"</b>
	HAMMER WT. <b>140#</b>	BIT
	HAMMER FALL <b>30"</b>	
	OFFSET	DATE START <b>6/16/21</b>
		DATE FINISH <b>6/16/21</b>
		SURFACE ELEV. <b>El. ±712</b>
		GROUND WATER ELEV.

DEPTH	CASING BLOWS PER FOOT	SAMPLE					BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE)			CORE TIME PER FT (MIN)	DENSITY OR CONSIST	STRATA CHANGE DEPTH	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
		NO	Type	PEN	REC	DEPTH @ BOT	0 - 6	6 - 12	12 - 18				
		1	ss	12"	6"	1'0"	1	3		dry-moist		2" Top soil	
							50/0"				1'9"	Drk brn silt some F-M sand, trace gravel, Auger Refusal	
5												EOB 1'9"	
												Offset 10' South to BP-7A	
0													
											2'	Auger Refusal	
5												EOB 2'	
10													
15													
20													
25													
30													

**NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.** \*Cat Head & Rope

GROUND SURFACE TO \_\_\_\_\_ FT. USED \_\_\_\_\_ CASING THEN \_\_\_\_\_ CASING TO \_\_\_\_\_ FT. HOLE NO. **BP-7**

A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST  
 WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS C = COARSE  
 SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER M = MEDIUM  
 PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND = 35 - 50% F = FINE

<b>SOILTESTING, INC.</b> 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: <u>KG&amp;D Architects</u>	SHEET <u>1</u> OF <u>1</u>
	PROJECT NO. <u>G128-1831-21</u>	HOLE NO. <u>BP-8</u>
	PROJECT NAME <u>ProSwing Sports</u>	BORING LOCATIONS Per Plan
FOREMAN - DRILLER <b>AK/ef</b>	LOCATION <u>#160 &amp; 132 Pugsley Road</u> <u>Southeast NY</u>	
INSPECTOR	CASING TYPE <u>HSA</u>	SAMPLER <u>SS*</u>
GROUND WATER OBSERVATIONS AT <u>None</u> FT AFTER <u>0</u> HOURS AT <u>  </u> FT AFTER <u>  </u> HOURS	SIZE I.D. <u>4 1/4"</u>	CORE BAR <u>  </u>
	HAMMER WT. <u>  </u>	BIT <u>  </u>
	HAMMER FALL <u>  </u>	30"
	DATE START <u>6/18/21</u>	DATE FINISH <u>6/18/21</u>
	SURFACE ELEV. <u>EI. ±710</u>	GROUND WATER ELEV. <u>  </u>

DEPTH @	CASING BLOWS PER FOOT	SAMPLE					BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE) 0 - 6 6 - 12 12 - 18	CORE TIME PER FT (MIN)	DENSITY OR CONSIST	STRATA CHANGE DEPTH	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
		NO	Type	PEN	REC.	DEPTH @ BOT					
5											Bedrock exposed at surface
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
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31											
32											
33											
34											
35											
36											
37											
38											
39											
40											

**NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.** \*Cat Head & Rope

GROUND SURFACE TO \_\_\_\_\_ FT. USED \_\_\_\_\_ CASING THEN \_\_\_\_\_ CASING TO \_\_\_\_\_ FT. **HOLE NO. BP-8**

A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST  
 WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS C = COARSE  
 SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER M = MEDIUM  
 PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND = 35 - 50% F = FINE

<b>SOILTESTING, INC.</b> 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: <b>KG&amp;D Architects</b>	SHEET <u>1</u> OF <u>1</u>
	PROJECT NO. <b>G128-1831-21</b>	HOLE NO. <b>BP-9</b>
	PROJECT NAME <b>ProSwing Sports</b>	BORING LOCATIONS Per Plan
FOREMAN - DRILLER <b>AK/ef</b>	LOCATION <b>#160 &amp; 132 Pugsley Road Southeast NY</b>	
INSPECTOR	CASING TYPE <b>HSA</b>	SAMPLER <b>SS*</b>
GROUND WATER OBSERVATIONS AT <u>None</u> FT AFTER <u>0</u> HOURS AT <u>   </u> FT AFTER <u>   </u> HOURS	SIZE I.D. <b>4 1/4"</b>	1 <b>3/8"</b>
	HAMMER WT. <b>140#</b>	BIT
	HAMMER FALL <b>30"</b>	
	OFFSET	
	DATE START <b>6/21/21</b>	
	DATE FINISH <b>6/21/21</b>	
	SURFACE ELEV. <b>El. ±648</b>	
	GROUND WATER ELEV.	

DEPTH	CASING BLOWS PER FOOT	SAMPLE					BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE)			CORE TIME PER FT (MIN)	DENSITY OR CONSIST	STRATA CHANGE DEPTH	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.		
		NO	Type	PEN	REC	DEPTH @ BOT	0 - 6	6 - 12	12 - 18					MOIST	ELEV
		1	ss	6"	6"	0'6"	2	50/0"		dry	0'6"	6" Top soil Auger Refusal EOB 0'6"			
5												Offset 5" South tp BP-9A			
10															
0											0'6"	6" Top soil Auger Refusal EOB 0'6"			
5															
10															
15															
20															
25															

**NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.** \*Cat Head & Rope

GROUND SURFACE TO \_\_\_\_\_ FT. USED \_\_\_\_\_ CASING THEN \_\_\_\_\_ CASING TO \_\_\_\_\_ FT. **HOLE NO. BP-9**

A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST  
 WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS C = COARSE  
 SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER M = MEDIUM  
 PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND = 35 - 50% F = FINE

<b>SOILTESTING, INC.</b> 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: <u>KG&amp;D Architects</u>	SHEET <u>1</u> OF <u>1</u>
	PROJECT NO. <u>G128-1831-21</u>	HOLE NO. <u>BP-10</u>
	PROJECT NAME <u>ProSwing Sports</u>	BORING LOCATIONS Per Plan
FOREMAN - DRILLER <b>AK/ef</b>	LOCATION <u>#160 &amp; 132 Pugsley Road</u> <u>Southeast NY</u>	
INSPECTOR	CASING TYPE <u>HSA</u>	SAMPLER <u>SS*</u>
GROUND WATER OBSERVATIONS AT <u>None</u> FT AFTER <u>0</u> HOURS AT <u>  </u> FT AFTER <u>  </u> HOURS	SIZE I.D. <u>4 1/4"</u>	1 <u>3/8"</u>
	HAMMER WT. <u>140#</u>	BIT
	HAMMER FALL <u>30"</u>	GROUND WATER ELEV.
		DATE START <u>6/18/21</u>
		DATE FINISH <u>6/18/21</u>
		SURFACE ELEV. <u>El. ±646</u>

DEPTH	CASING BLOWS PER FOOT	SAMPLE					BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE)			CORE TIME PER FT (MIN)	DENSITY OR CONSIST	STRATA CHANGE DEPTH	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
		NO	Type	PEN	REC.	DEPTH @ BOT	0 - 6	6 - 12	12 - 18				
5		1	ss	24"	15"	2'	2	1		v loose dry		4" Top soil Lt rbn F-M sand & silt, trace C sand Cobbles 3-5'	
							2	2					
5		2	ss	2"	2"	5'2"	50/2"			hard dry	4'	Blk gry silt & F-M sand, trace F gravel, C sand	
											4'6"	Partly decomposed Bedrock or Boulders	
10											9'	Fractured Bedrock or Boulders from 5' Auger Refusal	
												EOB 9'	
15													
20													
25													
30													
35													
40													

**NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.** \*Cat Head & Rope

GROUND SURFACE TO _____ FT. USED _____ CASING THEN _____ CASING TO _____ FT.	<b>HOLE NO. BP-10</b>
A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST	
WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS	C = COARSE
SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER	M = MEDIUM
PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND = 35 - 50%	F = FINE

<b>SOILTESTING, INC.</b> 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: <b>KG&amp;D Architects</b>	SHEET <u>1</u> OF <u>1</u>
	PROJECT NO. <b>G128-1831-21</b>	HOLE NO. <b>BP-11</b>
	PROJECT NAME <b>ProSwing Sports</b>	BORING LOCATIONS Per Plan
FOREMAN - DRILLER <b>AK/ef</b>	LOCATION <b>#160 &amp; 132 Pugsley Road Southeast NY</b>	
INSPECTOR	CASING TYPE <b>HSA</b>	SAMPLER <b>SS*</b>
GROUND WATER OBSERVATIONS AT <u>None</u> FT AFTER <u>0</u> HOURS AT <u>  </u> FT AFTER <u>  </u> HOURS	SIZE I.D. <b>4 1/4"</b>	1 3/8"
	HAMMER WT. <b>140#</b>	BIT
	HAMMER FALL <b>30"</b>	
	OFFSET	
	DATE START	<b>6/21/21</b>
	DATE FINISH	<b>6/21/21</b>
	SURFACE ELEV.	<b>El. ±653</b>
	GROUND WATER ELEV.	

DEPTH	CASING BLOWS PER FOOT	SAMPLE					BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE) 0 - 6 6 - 12 12 - 18	CORE TIME PER FT (MIN)	DENSITY OR CONSIST	STRATA CHANGE DEPTH	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.		
		NO	Type	PEN	REC.	DEPTH @ BOT						MOIST	ELEV
		1	ss	24"	20"			v soft dry		4" Top soil Lt brn red silt some F-M sand, trace C sand			
5									4'	Auger Refusal			
										EOB 4'0" Offset 5' South to BP-11A			
0													
5									4'	Auger Refusal			
										EOB 4'			
10													
15													
20													
25													
30													

**NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.** \*Cat Head & Rope

GROUND SURFACE TO _____ FT. USED _____ CASING THEN _____ CASING TO _____ FT.	<b>HOLE NO. BP-11</b>
A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST	
WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS	C = COARSE
SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER	M = MEDIUM
PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND = 35 - 50%	F = FINE

<b>SOILTESTING, INC.</b> 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: <u>KG&amp;D Architects</u>	SHEET <u>1</u> OF <u>1</u>
	PROJECT NO. <u>G128-1831-21</u>	HOLE NO. <u>BP-12</u>
	PROJECT NAME <u>ProSwing Sports</u>	BORING LOCATIONS Per Plan
FOREMAN - DRILLER <b>AK/ef</b>	LOCATION <u>#160 &amp; 132 Pugsley Road</u> <u>Southeast NY</u>	
INSPECTOR	CASING    SAMPLER    CORE BAR	OFFSET
	TYPE                    HSA    SS*	DATE START                    6/21/21
GROUND WATER OBSERVATIONS	SIZE I.D.                    4 1/4"    1 3/8"	DATE FINISH                    6/21/21
AT <u>None</u> FT AFTER <u>0</u> HOURS	HAMMER WT.                    140#    BIT	SURFACE ELEV. <b>EI. ±649</b>
AT <u>  </u> FT AFTER <u>  </u> HOURS	HAMMER FALL                    30"	GROUND WATER ELEV.

DEPTH	CASING BLOWS PER FOOT	SAMPLE					BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE)		CORE TIME PER FT (MIN)	DENSITY OR CONSIST	STRATA CHANGE DEPTH	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
		NO	Type	PEN	REC.	DEPTH @ BOT	0 - 6   6 - 12   12 - 18					
							MOIST	ELEV				
		1	ss	7	7	0'7"	1	50/1"		dry	1'	6" Top soil, Partly decomposed Bedrock, Auger Refusal
5												EOB 1'0"
												Offset 5' North to BP-12A
0											0'6"	Auger Refusal
												EOB 1'
5												
10												
15												
20												
25												
30												

**NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.**                    \*Cat Head & Rope

GROUND SURFACE TO \_\_\_\_\_ FT. USED \_\_\_\_\_ CASING THEN \_\_\_\_\_ CASING TO \_\_\_\_\_ FT.                    **HOLE NO. BP-12**

A = AUGER    UP = UNDISTURBED PISTON                    T = THINWALL                    V = VANE TEST

WOR = WEIGHT OF RODS                    WOH = WEIGHT OF HAMMER & RODS                    C = COARSE

SS = SPLIT TUBE SAMPLER                    H.S.A. = HOLLOW STEM AUGER                    M = MEDIUM

PROPORTIONS USED: TRACE = 0 - 10%    LITTLE = 10 - 20%    SOME = 20 - 35%    AND = 35 - 50%                    F = FINE

<b>SOILTESTING, INC.</b> 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: <b>KG&amp;D Architects</b>	SHEET <u>1</u> OF <u>1</u>
	PROJECT NO. <b>G128-1831-21</b>	HOLE NO. <b>C-1</b>
	PROJECT NAME <b>ProSwing Sports</b>	BORING LOCATIONS Per Plan
FOREMAN - DRILLER <b>AK/ef</b>	LOCATION <b>#160 &amp; 132 Pugsley Road Southeast NY</b>	
INSPECTOR	CASING    SAMPLER    CORE BAR	OFFSET
	TYPE                      HSA    SS*	DATE START                      6/17/21
GROUND WATER OBSERVATIONS	SIZE I.D.                      4 1/4"    1 3/8"	DATE FINISH                      6/17/21
AT <u>None</u> FT AFTER <u>0</u> HOURS	HAMMER WT.                      140#    BIT	SURFACE ELEV.                      El. ±690
AT <u>  </u> FT AFTER <u>  </u> HOURS	HAMMER FALL                      30"	GROUND WATER ELEV.

DEPTH	CASING BLOWS PER FOOT	SAMPLE					BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE)		CORE TIME PER FT (MIN)	DENSITY OR CONSIST	STRATA CHANGE DEPTH	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
		NO	Type	PEN	REC.	DEPTH @ BOT	0 - 6	6 - 12				
		1	ss	24"	10"	2'0"	2	2		soft		3" Top soil
		2	ss	24"	24"	4'0"	8	10		dry		Lt brn-brn silt, some F-M sand, trace C sand
							8	11		v stiff		Lt brn silt, some F-M sand, lit F gravel, lit C sand
5		3	ss	7"	7"	4'7"	28	50/1"		dry		Lt brn silt, some F-M sand, trace gravel, C sand
										hard	4'3"	
										dry	6'6"	Partly decomposed Bedrock or Boulder, Auger Refusal
10												EOB 6'6"
												Offset 5' North to C-1A
0												
5												
10												
15												
20												
25												

**NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.**                      \*Cat Head & Rope

GROUND SURFACE TO _____ FT. USED _____ CASING THEN _____ CASING TO _____ FT.	HOLE NO. <b>C-1</b>
A = AUGER    UP = UNDISTURBED PISTON    T = THINWALL    V = VANE TEST	
WOR = WEIGHT OF RODS    WOH = WEIGHT OF HAMMER & RODS	C = COARSE
SS = SPLIT TUBE SAMPLER    H.S.A. = HOLLOW STEM AUGER	M = MEDIUM
PROPORTIONS USED: TRACE = 0 - 10%    LITTLE = 10 - 20%    SOME = 20 - 35%    AND = 35 - 50%	F = FINE



<b>SOILTESTING, INC.</b> 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: <b>KG&amp;D Architects</b>	SHEET <u>1</u> OF <u>1</u>
	PROJECT NO. <b>G128-1831-21</b>	HOLE NO. <b>C-3</b>
	PROJECT NAME <b>ProSwing Sports</b>	BORING LOCATIONS Per Plan
FOREMAN - DRILLER <b>AK/ef</b>	LOCATION <b>#160 &amp; 132 Pugsley Road Southeast NY</b>	
INSPECTOR	CASING    SAMPLER    CORE BAR	OFFSET
GROUND WATER OBSERVATIONS AT <u>None</u> FT AFTER <u>0</u> HOURS AT <u>  </u> FT AFTER <u>  </u> HOURS	TYPE	DATE START
	SIZE I.D.	DATE FINISH
	HAMMER WT.	SURFACE ELEV.
	HAMMER FALL	GROUND WATER ELEV.

DEPTH	CASING BLOWS PER FOOT	SAMPLE					BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE)			CORE TIME PER FT (MIN)	DENSITY OR CONSIST	STRATA CHANGE DEPTH	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
		NO	Type	PEN	REC	DEPTH @ BOT	0 - 6	6 - 12	12 - 18				
5		1	ss	24"	12"	2'0"	1	2		soft		6" Top soil	
		2	ss	24"	24"	4'0"	2	12		moist		Lt brn silt some F-M sand, trace F gravel	
		3	ss	13"	13"	5'1"	14	28		v stiff		Lt gry silt some F-M sand, lit F gravel, trace C sand	
							14	19		dry	5'	Lt gry silt some F-M sand, lit F gravel, trace F-C sand	
						50/1"				hard	6'	Partly decomposed Bedrock or Boulder, Auger Refusal	
										dry		EOB 6'	
0	C-3A											Offset 5' North to C-3A	
5											4'6"	Auger Refusal	
10													
15													
20													
25													
30													

**NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.** **\*Cat Head & Rope**

GROUND SURFACE TO _____ FT. USED _____ CASING THEN _____ CASING TO _____ FT.	<b>HOLE NO. C-3</b>
A = AUGER    UP = UNDISTURBED PISTON    T = THINWALL    V = VANE TEST	
WOR = WEIGHT OF RODS    WOH = WEIGHT OF HAMMER & RODS	C = COARSE
SS = SPLIT TUBE SAMPLER    H.S.A. = HOLLOW STEM AUGER	M = MEDIUM
PROPORTIONS USED: TRACE = 0 - 10%    LITTLE = 10 - 20%    SOME = 20 - 35%    AND = 35 - 50%	F = FINE

<b>SOILTESTING, INC.</b> 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: <u>KG&amp;D Architects</u>	SHEET <u>1</u> OF <u>1</u>
	PROJECT NO. <u>G128-1831-21</u>	HOLE NO. <u>C-4</u>
	PROJECT NAME <u>ProSwing Sports</u>	BORING LOCATIONS Per Plan
FOREMAN - DRILLER <b>AK/ef</b>	LOCATION <u>#160 &amp; 132 Pugsley Road</u> <u>Southeast NY</u>	
INSPECTOR	CASING    SAMPLER    CORE BAR	OFFSET
	TYPE                      HSA    SS*	DATE START                      6/17/21
GROUND WATER OBSERVATIONS	SIZE I.D.                      4 1/4"    1 3/8"	DATE FINISH                      6/17/21
AT <u>None</u> FT AFTER <u>0</u> HOURS	HAMMER WT.                      140#    BIT	SURFACE ELEV. <b>EI. ±693</b>
AT <u>  </u> FT AFTER <u>  </u> HOURS	HAMMER FALL                      30"	GROUND WATER ELEV.

DEPTH	CASING BLOWS PER FOOT	SAMPLE					BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE) 0 - 6 6 - 12 12- 18	CORE TIME PER FT (MIN)	DENSITY OR CONSIST	STRATA CHANGE DEPTH	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.	
		NO	Type	PEN	REC	DEPTH @ BOT						
												MOIST
		1	ss	2"	0"	0'2"	50/2"			hard dry	1'	Brn sandy silt & cobbles, Auger Refusal
5												EOB 1'0"
												Offset 5' North to C-4A
0	C-4A											
											1'	Auger Refusal
5												EOB 1'0"
10												
15												
20												
25												
30												

**NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.**                      \*Cat Head & Rope

GROUND SURFACE TO \_\_\_\_\_ FT. USED \_\_\_\_\_ CASING THEN \_\_\_\_\_ CASING TO \_\_\_\_\_ FT.                      **HOLE NO. C-4**

A = AUGER    UP = UNDISTURBED PISTON                      T = THINWALL                      V = VANE TEST  
 WOR = WEIGHT OF RODS                      WOH = WEIGHT OF HAMMER & RODS                      C = COARSE  
 SS = SPLIT TUBE SAMPLER                      H.S.A. = HOLLOW STEM AUGER                      M = MEDIUM  
 PROPORTIONS USED: TRACE = 0 - 10%    LITTLE = 10 - 20%    SOME = 20 - 35%    AND = 35 - 50%                      F = FINE

<b>SOILTESTING, INC.</b> 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: <u>KG&amp;D Architects</u>	SHEET <u>1</u> OF <u>1</u>
	PROJECT NO. <u>G128-1831-21</u>	HOLE NO. <u>C-5</u>
	PROJECT NAME <u>ProSwing Sports</u>	BORING LOCATIONS Per Plan
FOREMAN - DRILLER <b>AK/ef</b>	LOCATION <u>#160 &amp; 132 Pugsley Road</u> <u>Southeast NY</u>	
INSPECTOR	CASING    SAMPLER    CORE BAR	OFFSET
	TYPE <u>HSA    SS*</u>	DATE START <u>6/18/21</u>
GROUND WATER OBSERVATIONS	SIZE I.D. <u>4 1/4"    1 3/8"</u>	DATE FINISH <u>6/18/21</u>
AT <u>None</u> FT AFTER <u>0</u> HOURS	HAMMER WT. <u>140#</u> BIT	SURFACE ELEV. <u>El. ±682</u>
AT <u>  </u> FT AFTER <u>  </u> HOURS	HAMMER FALL <u>30"</u>	GROUND WATER ELEV.

DEPTH	CASING BLOWS PER FOOT	SAMPLE					BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE)		CORE TIME PER FT (MIN)	DENSITY OR CONSIST	STRATA CHANGE DEPTH	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
		NO	Type	PEN	REC.	DEPTH @ BOT	0 - 6    6 - 12    12 - 18					
							MOIST	ELEV				
		1	ss	24"	20"	2'0"	2	2			8" Top soil	
		2	ss	24"	24"	4'0"	2	2			Brn silt some F-M sand, Trace C sand, roots	
							3	6				
							6	7			Lt brn silt some F-M sand, trace F gravel, C sand	
5		3	ss	15"	8"	5'3"	6	26		5'6"	Lt brn silt some F-M sand, trace F gravel, C sand, Auger Refusal	
							50/3"				EOB 5'6"	
10											Offset 5' North to C-5A	
0												
5												
										6'6"	Auger Refusal	
											EOB 6'6"	
10												
15												
20												
25												

**NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.**      \*Cat Head & Rope

GROUND SURFACE TO _____ FT. USED _____ CASING THEN _____ CASING TO _____ FT.	<b>HOLE NO.    C-5</b>
A = AUGER    UP = UNDISTURBED PISTON    T = THINWALL    V = VANE TEST	
WOR = WEIGHT OF RODS    WOH = WEIGHT OF HAMMER & RODS	C = COARSE
SS = SPLIT TUBE SAMPLER    H.S.A. = HOLLOW STEM AUGER	M = MEDIUM
PROPORTIONS USED: TRACE = 0 - 10%    LITTLE = 10 - 20%    SOME = 20 - 35%    AND = 35 - 50%	F = FINE

<b>SOILTESTING, INC.</b> 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: <u>KG&amp;D Architects</u>	SHEET <u>1</u> OF <u>1</u>
	PROJECT NO. <u>G128-1831-21</u>	HOLE NO. <u>C-6</u>
	PROJECT NAME <u>ProSwing Sports</u>	BORING LOCATIONS Per Plan
FOREMAN - DRILLER <b>AK/ef</b>	LOCATION <b>#160 &amp; 132 Pugsley Road</b> <b>Southeast NY</b>	
INSPECTOR	TYPE	CASING    SAMPLER    CORE BAR    OFFSET
GROUND WATER OBSERVATIONS AT <u>None</u> FT AFTER <u>0</u> HOURS AT <u>  </u> FT AFTER <u>  </u> HOURS	SIZE I.D.	DATE START                      6/18/21
	HAMMER WT.	DATE FINISH                     6/18/21
	HAMMER FALL	SURFACE ELEV. <b>EI. ±688</b>
		GROUND WATER ELEV.

DEPTH	CASING BLOWS PER FOOT	SAMPLE					BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE)		CORE TIME PER FT (MIN)	DENSITY OR CONSIST	STRATA CHANGE DEPTH	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
		NO	Type	PEN	REC	DEPTH @ BOT	0 - 6	6 - 12				
5		1	ss	24"	18"	2'0"	1	2		soft		2" Top soil
							2	2		dry		Lt brn silt some F-M snd, trace F gravel, trace C sand
		2	ss	24"	20"	4'0"	7	11		v stiff		
							18	26		dry		Lt brn-gry silt some F-M snd, lit C sand, trace F gravel Cobbles/boulders 2'-4'
		3	ss	24"	20"	6'0"	9	10		v stiff		
10							12	13		dry		Lt brn-gry silt some F-M sand, lit C sand, trace F gravel
		4	ss	24"	24"	8'0"	19	17		hard		
							15	16		dry-moist		Lt brn-gry silt some F-M sand, lit C sand, trace F gravel
		5	ss	10"	8"	9'4"	26	32				
							50/4"			dry-moist		Cobbles, Boulders 9'-14'
15										14'	Auger Refusal	
20											EOB 14'	
25												
30												
35												
40												

**NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.**                      \*Cat Head & Rope

GROUND SURFACE TO _____ FT. USED _____ CASING THEN _____ CASING TO _____ FT.	<b>HOLE NO. C-6</b>
A = AUGER    UP = UNDISTURBED PISTON    T = THINWALL    V = VANE TEST	
WOR = WEIGHT OF RODS                      WOH = WEIGHT OF HAMMER & RODS	C = COARSE
SS = SPLIT TUBE SAMPLER                    H.S.A. = HOLLOW STEM AUGER	M = MEDIUM
PROPORTIONS USED: TRACE = 0 - 10%    LITTLE = 10 - 20%    SOME = 20 - 35%    AND = 35 - 50%	F = FINE

<b>SOILTESTING, INC.</b> 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: <u>KG&amp;D Architects</u>	SHEET <u>1</u> OF <u>1</u>
	PROJECT NO. <u>G128-1831-21</u>	HOLE NO. <u>C-7</u>
	PROJECT NAME <u>ProSwing Sports</u>	BORING LOCATIONS Per Plan
FOREMAN - DRILLER <b>AK/ef</b>	LOCATION <u>#160 &amp; 132 Pugsley Road</u> <u>Southeast NY</u>	
INSPECTOR	CASING    SAMPLER    CORE BAR	OFFSET
	TYPE <u>HSA</u> <u>SS*</u>	DATE START <u>6/18/21</u>
GROUND WATER OBSERVATIONS	SIZE I.D. <u>4 1/4"</u> <u>1 3/8"</u>	DATE FINISH <u>6/18/21</u>
AT <u>None</u> FT AFTER <u>0</u> HOURS	HAMMER WT. <u>140#</u> BIT	SURFACE ELEV. <u>EI. ±695</u>
AT <u>  </u> FT AFTER <u>  </u> HOURS	HAMMER FALL <u>30"</u>	GROUND WATER ELEV.

DEPTH	CASING BLOWS PER FOOT	SAMPLE					BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE) 0 - 6 6 - 12 12 - 18	CORE TIME PER FT (MIN)	DENSITY OR CONSIST	STRATA CHANGE DEPTH	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
		NO	Type	PEN	REC	DEPTH @ BOT					
5	1	ss	0"	0"	5'0"	50/0"		v dense dry	5'	4" Top soil Brn silt, lit sand, gravel  Cobbles, boulders 2'-4'6", Auger Refusal	
0										EOB 5'0"  Offset 5' North to C-7A	
5									5'6"	Auger Refusal	
10										EOB 5'6"	
25											
30											
35											
40											

**NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.**      \*Cat Head & Rope

GROUND SURFACE TO \_\_\_\_\_ FT. USED \_\_\_\_\_ CASING THEN \_\_\_\_\_ CASING TO \_\_\_\_\_ FT.      **HOLE NO. C-7**

A = AUGER    UP = UNDISTURBED PISTON    T = THINWALL    V = VANE TEST  
 WOR = WEIGHT OF RODS    WOH = WEIGHT OF HAMMER & RODS    C = COARSE  
 SS = SPLIT TUBE SAMPLER    H.S.A. = HOLLOW STEM AUGER    M = MEDIUM  
 PROPORTIONS USED: TRACE = 0 - 10%    LITTLE = 10 - 20%    SOME = 20 - 35%    AND = 35 - 50%    F = FINE

<b>SOILTESTING, INC.</b> 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: <u>KG&amp;D Architects</u>	SHEET <u>1</u> OF <u>1</u>
	PROJECT NO. <u>G128-1831-21</u>	HOLE NO. <u>C-8</u>
	PROJECT NAME <u>ProSwing Sports</u>	BORING LOCATIONS Per Plan
FOREMAN - DRILLER <b>AK/ef</b>	LOCATION <u>#160 &amp; 132 Pugsley Road</u> <u>Southeast NY</u>	
INSPECTOR	CASING    SAMPLER    CORE BAR	OFFSET
	TYPE <u>HSA</u> <u>SS*</u>	DATE START <u>6/18/21</u>
GROUND WATER OBSERVATIONS	SIZE I.D. <u>4 1/4"</u> <u>1 3/8"</u>	DATE FINISH <u>6/18/21</u>
AT <u>None</u> FT AFTER <u>0</u> HOURS	HAMMER WT. <u>140#</u> BIT	SURFACE ELEV. <u>EI. ±686</u>
AT <u>  </u> FT AFTER <u>  </u> HOURS	HAMMER FALL <u>30"</u>	GROUND WATER ELEV.

DEPTH	CASING BLOWS PER FOOT	SAMPLE					BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE)				CORE TIME PER FT (MIN)	DENSITY OR CONSIST	STRATA CHANGE DEPTH	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
		NO	Type	PEN	REC.	DEPTH @ BOT	0 - 6   6 - 12   12 - 18							
							0-6	6-12	12-18					
5		1	ss	24"	13"	2'0"	1	2			soft		4" Top soil	
							2	2			dry		Brn silt some F-M sand, trace roots	
		2	ss	24"	24"	4'0"	8	13			hard			
							18	26			dry		Lt brn silt some F-M sand, trace F gravel, trace C sand	
													Cobbles 3'6"-5'	
10		3	ss	24"	20"	6'0"	28	18			hard		Lt brn-gry silt some F-M sand, trace F gravel, C sand	
							12	13			moist			
		4	ss	24"	20"	8'0"	13	13			v stiff			
							12	12			v moist	9'6"	Lt brn-gry silt some F-M sand, lit C sand, trace F gravel	
		5	ss	2"	0"	10'2"	50'2"				dry	10'2"	Fractured Bedrock or Boulders, Auger Refusal @ 10'	
15													EOB 10'2"	
20														
25														
30														
35														
40														

**NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.**      \*Cat Head & Rope

GROUND SURFACE TO \_\_\_\_\_ FT. USED \_\_\_\_\_ CASING THEN \_\_\_\_\_ CASING TO \_\_\_\_\_ FT.      HOLE NO. **C-8**

A = AUGER    UP = UNDISTURBED PISTON    T = THINWALL    V = VANE TEST  
 WOR = WEIGHT OF RODS    WOH = WEIGHT OF HAMMER & RODS    C = COARSE  
 SS = SPLIT TUBE SAMPLER    H.S.A. = HOLLOW STEM AUGER    M = MEDIUM  
 PROPORTIONS USED: TRACE = 0 - 10%    LITTLE = 10 - 20%    SOME = 20 - 35%    AND = 35 - 50%    F = FINE

<b>SOILTESTING, INC.</b> 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: <b>KG&amp;D Architects</b>	SHEET <u>1</u> OF <u>1</u>
	PROJECT NO. <b>G128-1831-21</b>	HOLE NO. <b>C-9</b>
	PROJECT NAME <b>ProSwing Sports</b>	BORING LOCATIONS Per Plan
FOREMAN - DRILLER <b>AK/ef</b>	LOCATION <b>#160 &amp; 132 Pugsley Road Southeast NY</b>	
INSPECTOR	CASING TYPE <b>HSA</b>	SAMPLER <b>SS*</b>
GROUND WATER OBSERVATIONS	SIZE I.D. <b>4 1/4"</b>	1 <b>3/8"</b>
AT <u>15</u> FT AFTER <u>0</u> HOURS	HAMMER WT. <b>140#</b>	BIT
AT <u>  </u> FT AFTER <u>  </u> HOURS	HAMMER FALL <b>30"</b>	
AT 8'8" 7/2/21		DATE START <b>6/21/21</b>
AT 8'8" 7/7/21		DATE FINISH <b>6/21/21</b>
		SURFACE ELEV. <b>EI. ±693</b>
		GROUND WATER ELEV.

DEPTH	CASING BLOWS PER FOOT	SAMPLE					BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE)			CORE TIME PER FT (MIN)	DENSITY OR CONSIST	STRATA CHANGE DEPTH	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.		
		NO	Type	PEN	REC	DEPTH @ BOT	0 - 6	6 - 12	12 - 18					MOIST	ELEV
5		1	ss	24"	18"	2'0"	2	3		stiff		3" Top soil			
						4	5		dry		Lt brn silt some F-M sand, trace F gravel, trace C sand				
		2	ss	24"	20"	4'0"	8	9		v stiff		Lt brn silt some F-M sand, lit C sand, trace F gravel			
						9	11		moist			Lt brn silt some F-M sand, lit C sand, trace F gravel			
		3	ss	24"	24"	6'0"	5	8		v stiff		Lt brn silt some F-M sand, lit C sand, lit F gravel			
10						12	17		dry		Lt brn silt some F-M sand, lit C sand, lit F gravel				
		4	ss	10"	6"	6'10"	28	50/4"		dry		Lt brn silt some F-M sand, Lit C sand, lit F gravel			
									hard		Cobbles, Boulders 5'-8'6"				
15		5	ss	9"	4"	8'9"	14	50/3"		dry		Lt brn silt some F-M sand, lit C sand, lit F gravel, trace blk sand			
		6	ss	0"	0"	10'0"	54/0"				No recovery	Cobbles, Boulders and/or fractured Bedrock from 10'			
20											14'6"				
									v dense		15'6"	Bedrock or Boulder fragments			
25		7	ss	2"	2"	15'2"	50/2"		wet			EOB 15'6"			
												Installed 1" SCH 40 PVC observation well with 10' screen length to a depth of 15'.			
30															
35															
40															

**NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.** \*Cat Head & Rope

GROUND SURFACE TO \_\_\_\_\_ FT. USED \_\_\_\_\_ CASING THEN \_\_\_\_\_ CASING TO \_\_\_\_\_ FT. HOLE NO. **C-9**

A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST  
 WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS C = COARSE  
 SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER M = MEDIUM  
 PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND = 35 - 50% F = FINE

<b>SOILTESTING, INC.</b> 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: <b>KG&amp;D Architects</b>	SHEET <u>1</u> OF <u>1</u>
	PROJECT NO. <b>G128-1831-21</b>	HOLE NO. <b>C-10</b>
	PROJECT NAME <b>ProSwing Sports</b>	BORING LOCATIONS Per Plan
FOREMAN - DRILLER <b>AK/ef</b>	LOCATION <b>#160 &amp; 132 Pugsley Road Southeast NY</b>	
INSPECTOR	CASING TYPE <b>HSA</b>	SAMPLER <b>SS*</b>
GROUND WATER OBSERVATIONS AT <u>None</u> FT AFTER <u>0</u> HOURS AT <u>  </u> FT AFTER <u>  </u> HOURS	SIZE I.D. <b>4 1/4"</b>	1 <b>3/8"</b>
	HAMMER WT. <b>140#</b>	BIT
	HAMMER FALL <b>30"</b>	GROUND WATER ELEV.
		DATE START <b>6/21/21</b>
		DATE FINISH <b>6/21/21</b>
		SURFACE ELEV. <b>El. ±658</b>

DEPTH	CASING BLOWS PER FOOT	SAMPLE				DEPTH @ BOT	BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE)				CORE TIME PER FT (MIN)	DENSITY OR CONSIST	STRATA CHANGE DEPTH	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
		NO	Type	PEN	REC		0	6	12	18				
		1	ss	24"	20"	2'0"	2	3			stiff		4" Top soil	
		2	ss	14"	18"	3'7"	5	7			dry		Lt brn silt & F-M sand, lit C sand, trace F gravel	
							7	50/1"			stiff		Lt brn-gry silt & F-M sand, lit C sand, lit F gravel	
5		3	ss	3"	3"	4'3"	50/3"				dry		Lt brn silt some F-M sand, lit c sand, trace F gravel	
											hard		(possible decomposed boulder or bedrock from 3'6")	
											dry	4'3"	Auger Refusal @ 4'	
													EOB 4'3"	
10														
15														
20														
25														
30														
35														
40														

**NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.** \*Cat Head & Rope

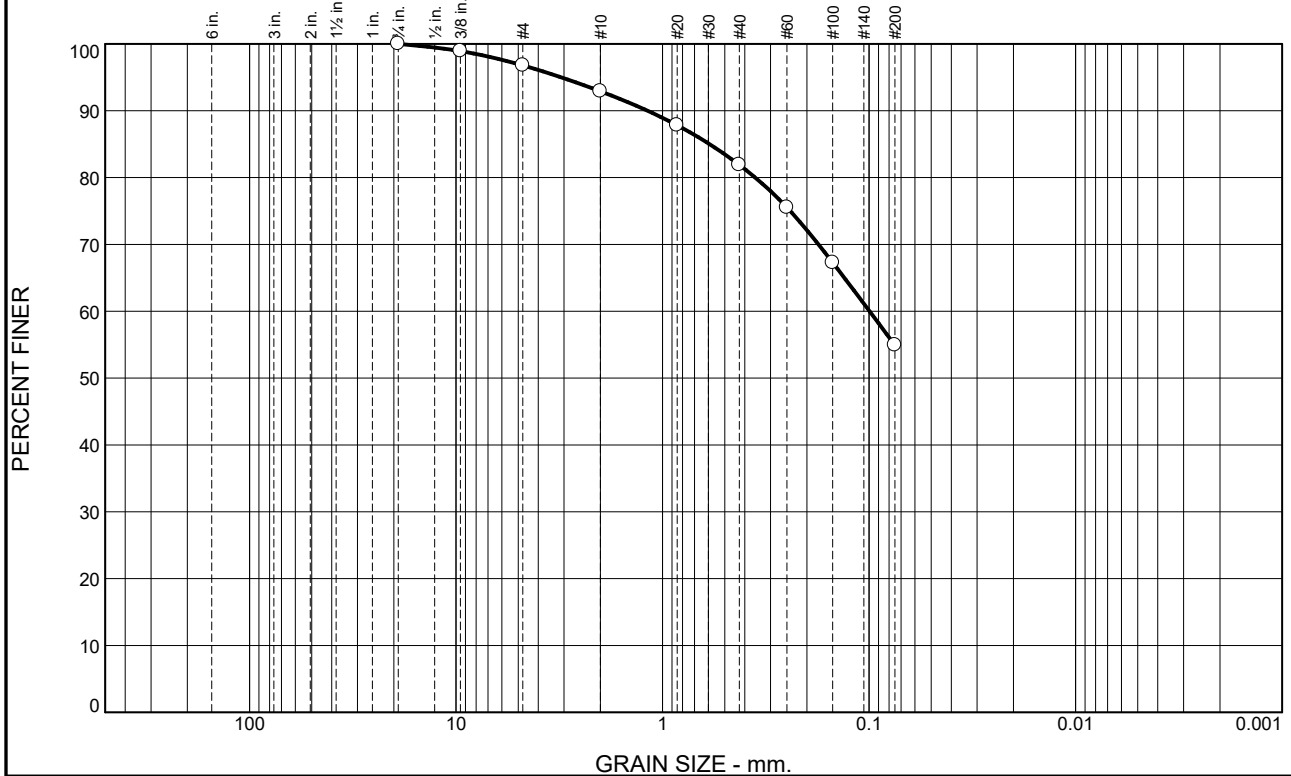
GROUND SURFACE TO \_\_\_\_\_ FT. USED \_\_\_\_\_ CASING THEN \_\_\_\_\_ CASING TO \_\_\_\_\_ FT. HOLE NO. **C-10**

A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST  
 WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS C = COARSE  
 SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER M = MEDIUM  
 PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND = 35 - 50% F = FINE



# Laboratory Test Results

# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	3.2	3.9	11.0	27.0	54.9	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.75	100.0		
.375	98.9		
#4	96.8		
#10	92.9		
#20	87.8		
#40	81.9		
#60	75.5		
#100	67.3		
#200	54.9		

**Material Description**

Brown sandy silt

**Atterberg Limits**

PL=                      LL=                      PI=

**Coefficients**

D<sub>90</sub>= 1.1820                      D<sub>85</sub>= 0.5922                      D<sub>60</sub>= 0.0994

D<sub>50</sub>=                      D<sub>30</sub>=                      D<sub>15</sub>=

D<sub>10</sub>=                      C<sub>u</sub>=                      C<sub>c</sub>=

**Classification**

USCS= ML                      AASHTO=

**Remarks**

Sample washed on #200 sieve  
USCS based on dilatancy & plasticity per ASTM D2488

\* (no specification provided)

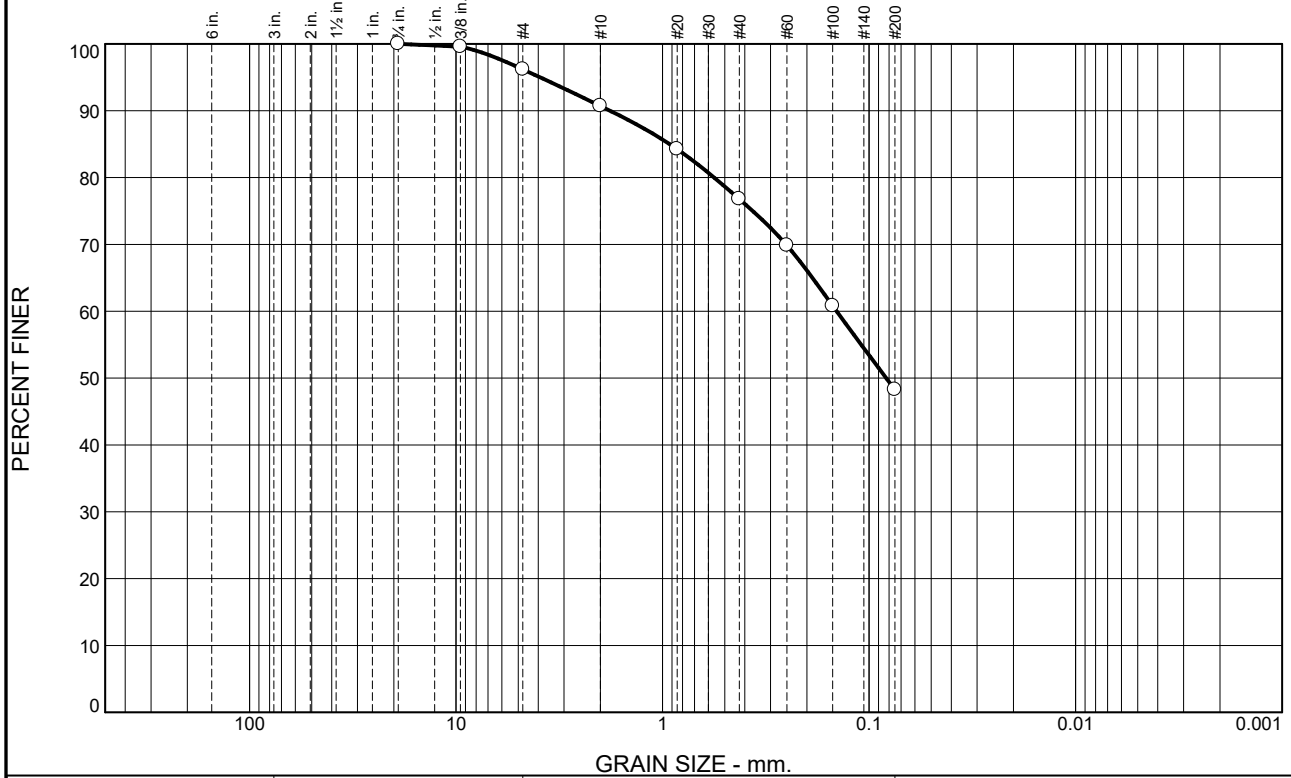
Source of Sample: BE-4                      Depth: 5-7 ft.  
Sample Number: S-2

Date: 7-8-2021

<b>SKYLANDS TESTING, LLC</b>	<b>Client:</b> Soiltesting, Inc. <b>Project:</b> Pugsley Road Brewster, NY 10509
<b>Sparta, NJ</b>	<b>Project No:</b> G-1831 <b>Figure</b>

Tested By: RS                      Checked By: VRS

# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	3.8	5.5	13.9	28.5	48.3	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.75	100.0		
.375	99.6		
#4	96.2		
#10	90.7		
#20	84.2		
#40	76.8		
#60	69.9		
#100	60.8		
#200	48.3		

**Material Description**

Orange-brown silty sand

**Atterberg Limits**

PL=                      LL=                      PI=

**Coefficients**

D<sub>90</sub>= 1.7967              D<sub>85</sub>= 0.9234              D<sub>60</sub>= 0.1435  
 D<sub>50</sub>= 0.0826              D<sub>30</sub>=                      D<sub>15</sub>=                      C<sub>u</sub>=                      C<sub>c</sub>=

**Classification**

USCS= SM                      AASHTO=

**Remarks**

Sample washed on #200 sieve  
 USCS based on dilatancy & plasticity per ASTM D2488

\* (no specification provided)

Source of Sample: BP-2              Depth: 5-6.5 ft.  
 Sample Number: S-2

Date: 7-8-2021

**SKYLANDS TESTING, LLC**

**Sparta, NJ**

Client: Soiltesting, Inc.  
 Project: Pugsley Road  
 Brewster, NY 10509

Project No: G-1831

Figure

Tested By: RS

Checked By: VRS

# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.7	25.7	47.2	26.4	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.75	100.0		
.375	100.0		
#4	100.0		
#10	99.3		
#20	93.2		
#40	73.6		
#60	55.5		
#100	40.4		
#200	26.4		

**Material Description**

Black-brown silty sand

**Atterberg Limits**

PL=                      LL=                      PI=

**Coefficients**

D<sub>90</sub>= 0.7317              D<sub>85</sub>= 0.6064              D<sub>60</sub>= 0.2857  
D<sub>50</sub>= 0.2104              D<sub>30</sub>= 0.0918              D<sub>15</sub>=  
D<sub>10</sub>=                      C<sub>u</sub>=                      C<sub>c</sub>=

**Classification**

USCS= SM                      AASHTO=

**Remarks**

Sample washed on #200 sieve  
USCS based on dilatancy & plasticity per ASTM D2488

\* (no specification provided)

Source of Sample: BP-4              Depth: 5-7 ft.  
Sample Number: S-2

Date: 7-8-2021

<b>SKYLANDS TESTING, LLC</b>	<b>Client:</b> Soiltesting, Inc. <b>Project:</b> Pugsley Road Brewster, NY 10509
<b>Sparta, NJ</b>	<b>Project No:</b> G-1831
	<b>Figure</b>

Tested By: RS                      Checked By: VRS

# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	3.8	10.9	8.1	17.7	29.6	29.9	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1	100.0		
.75	96.2		
.375	90.9		
#4	85.3		
#10	77.2		
#20	68.8		
#40	59.5		
#60	51.2		
#100	41.7		
#200	29.9		

**Material Description**

Brown silty sand

**Atterberg Limits**

PL=                      LL=                      PI=

**Coefficients**

D<sub>90</sub>= 8.3293                      D<sub>85</sub>= 4.6135                      D<sub>60</sub>= 0.4394  
D<sub>50</sub>= 0.2343                      D<sub>30</sub>= 0.0753                      D<sub>15</sub>=  
D<sub>10</sub>=                                      C<sub>u</sub>=                                      C<sub>c</sub>=

**Classification**

USCS= SM                      AASHTO=

**Remarks**

Sample washed on #200 sieve  
USCS based on dilatancy & plasticity per ASTM D2488

\* (no specification provided)

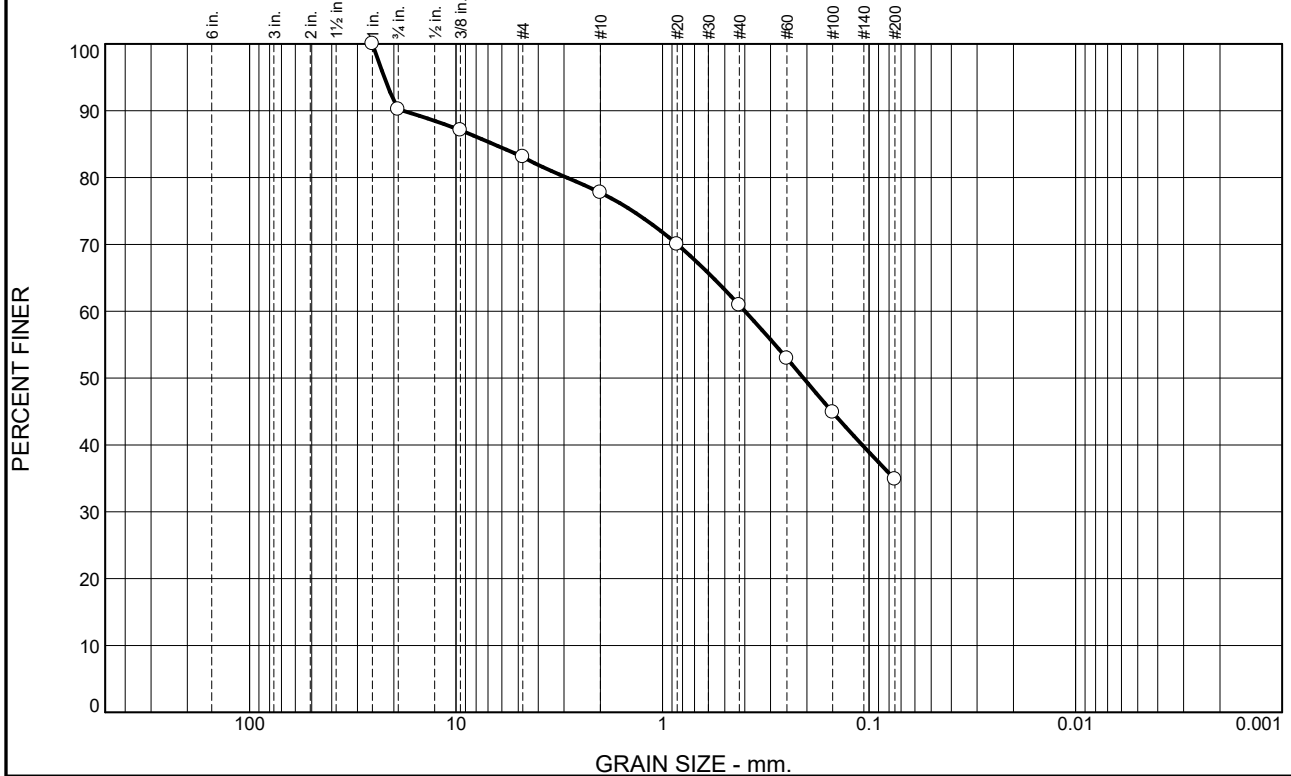
Source of Sample: C-4                      Depth: 8-10 ft.  
Sample Number: S-5

Date: 7-8-2021

<b>SKYLANDS TESTING, LLC</b>	Client: Soiltesting, Inc.
<b>Sparta, NJ</b>	Project: Pugsley Road Brewster, NY 10509
	Project No: G-1831
	Figure

Tested By: RS                      Checked By: VRS

# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	9.8	7.1	5.4	16.8	26.0	34.9	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1	100.0		
.75	90.2		
.375	87.1		
#4	83.1		
#10	77.7		
#20	70.0		
#40	60.9		
#60	52.9		
#100	44.9		
#200	34.9		

**Material Description**

Brown and white silty sand with gravel

**Atterberg Limits**

PL=                      LL=                      PI=

**Coefficients**

D<sub>90</sub>= 18.0777      D<sub>85</sub>= 6.5810      D<sub>60</sub>= 0.3988  
D<sub>50</sub>= 0.2077      D<sub>30</sub>=                      D<sub>15</sub>=  
D<sub>10</sub>=                      C<sub>u</sub>=                      C<sub>c</sub>=

**Classification**

USCS= SM                      AASHTO=

**Remarks**

Sample washed on #200 sieve  
USCS based on dilatancy & plasticity per ASTM D2488

\* (no specification provided)

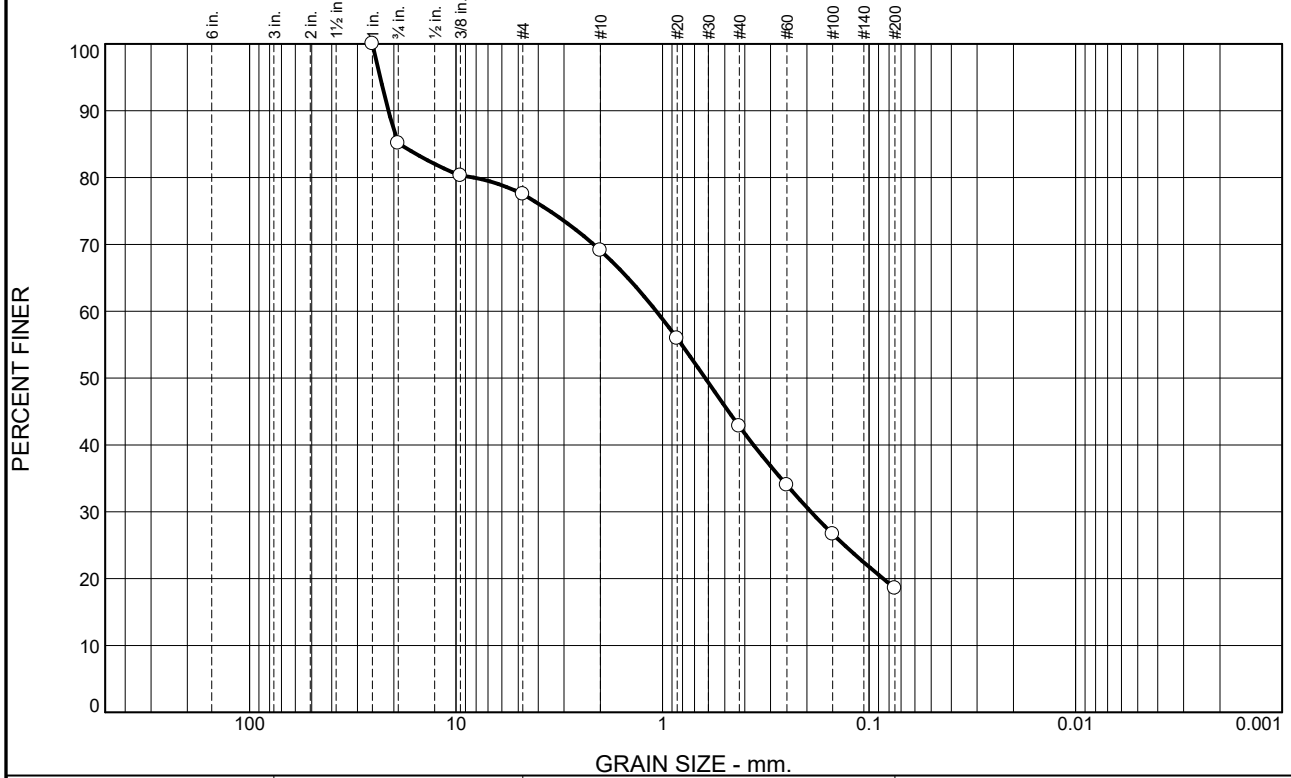
Source of Sample: C-5      Depth: 2-4 ft.  
Sample Number: S-2

Date: 7-8-2021

<b>SKYLANDS TESTING, LLC</b>	<b>Client:</b> Soiltesting, Inc. <b>Project:</b> Pugsley Road Brewster, NY 10509
<b>Sparta, NJ</b>	<b>Project No:</b> G-1831
	<b>Figure</b>

Tested By: RS                      Checked By: VRS

# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	14.9	7.6	8.4	26.3	24.2	18.6	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1	100.0		
.75	85.1		
.375	80.3		
#4	77.5		
#10	69.1		
#20	55.9		
#40	42.8		
#60	34.0		
#100	26.7		
#200	18.6		

**Material Description**

Brown silty sand with gravel

**Atterberg Limits**

PL=                      LL=                      PI=

**Coefficients**

D<sub>90</sub>= 21.2485      D<sub>85</sub>= 18.7614      D<sub>60</sub>= 1.0709  
D<sub>50</sub>= 0.6214      D<sub>30</sub>= 0.1913      D<sub>15</sub>=  
D<sub>10</sub>=                      C<sub>u</sub>=                      C<sub>c</sub>=

**Classification**

USCS= SM                      AASHTO=

**Remarks**

Sample washed on #200 sieve  
USCS based on dilatancy & plasticity per ASTM D2488

\* (no specification provided)

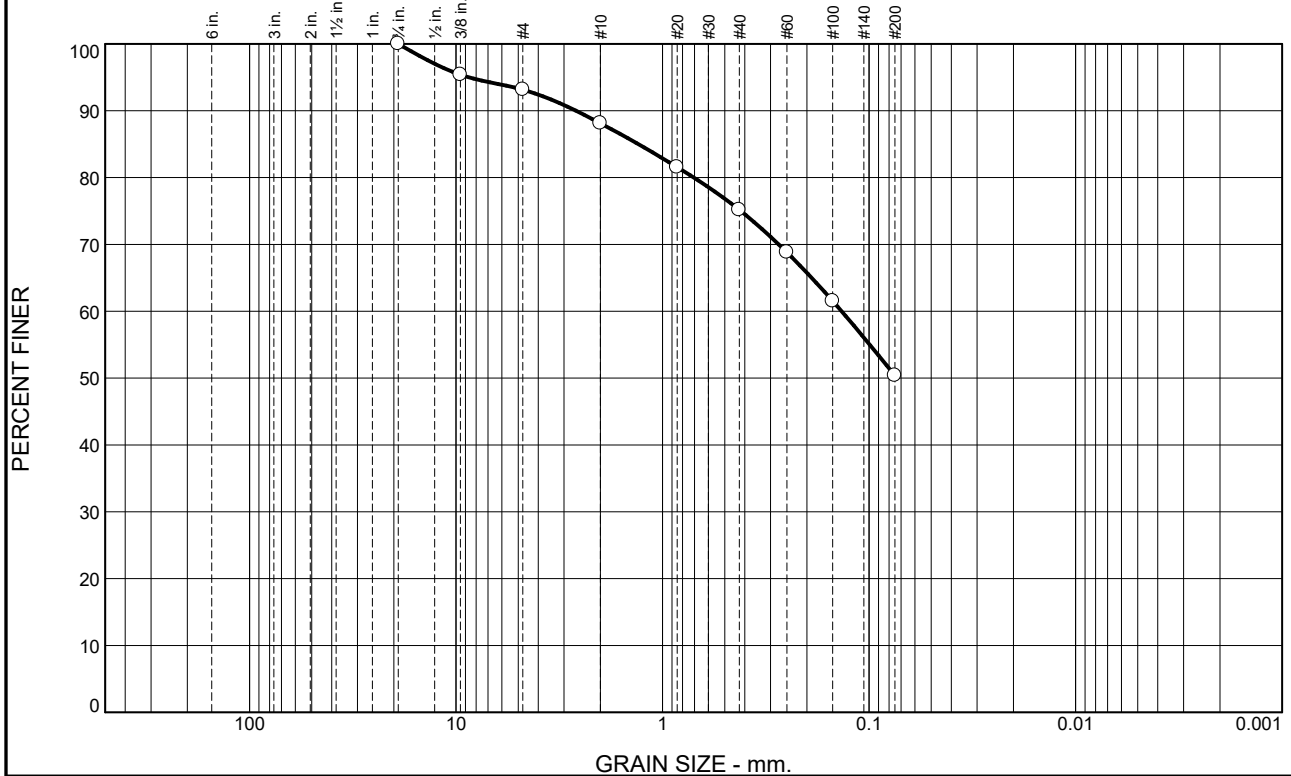
Source of Sample: C-5      Depth: 4-5.25 ft.  
Sample Number: S-3

Date: 7-8-2021

<b>SKYLANDS TESTING, LLC</b>	<b>Client:</b> Soiltesting, Inc. <b>Project:</b> Pugsley Road Brewster, NY 10509 <b>Project No:</b> G-1831
<b>Sparta, NJ</b>	<b>Figure</b>

Tested By: RS                      Checked By: VRS

# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	6.8	5.1	12.9	24.8	50.4	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.75	100.0		
.375	95.4		
#4	93.2		
#10	88.1		
#20	81.6		
#40	75.2		
#60	68.8		
#100	61.5		
#200	50.4		

**Material Description**

Brown sandy silt

**Atterberg Limits**

PL=                      LL=                      PI=

**Coefficients**

D<sub>90</sub>= 2.6265              D<sub>85</sub>= 1.3101              D<sub>60</sub>= 0.1358  
 D<sub>50</sub>=                      D<sub>30</sub>=                      D<sub>15</sub>=  
 D<sub>10</sub>=                      C<sub>u</sub>=                      C<sub>c</sub>=

**Classification**

USCS= ML                      AASHTO=

**Remarks**

Sample washed on #200 sieve  
 USCS based on dilatancy & plasticity per ASTM D2488

\* (no specification provided)

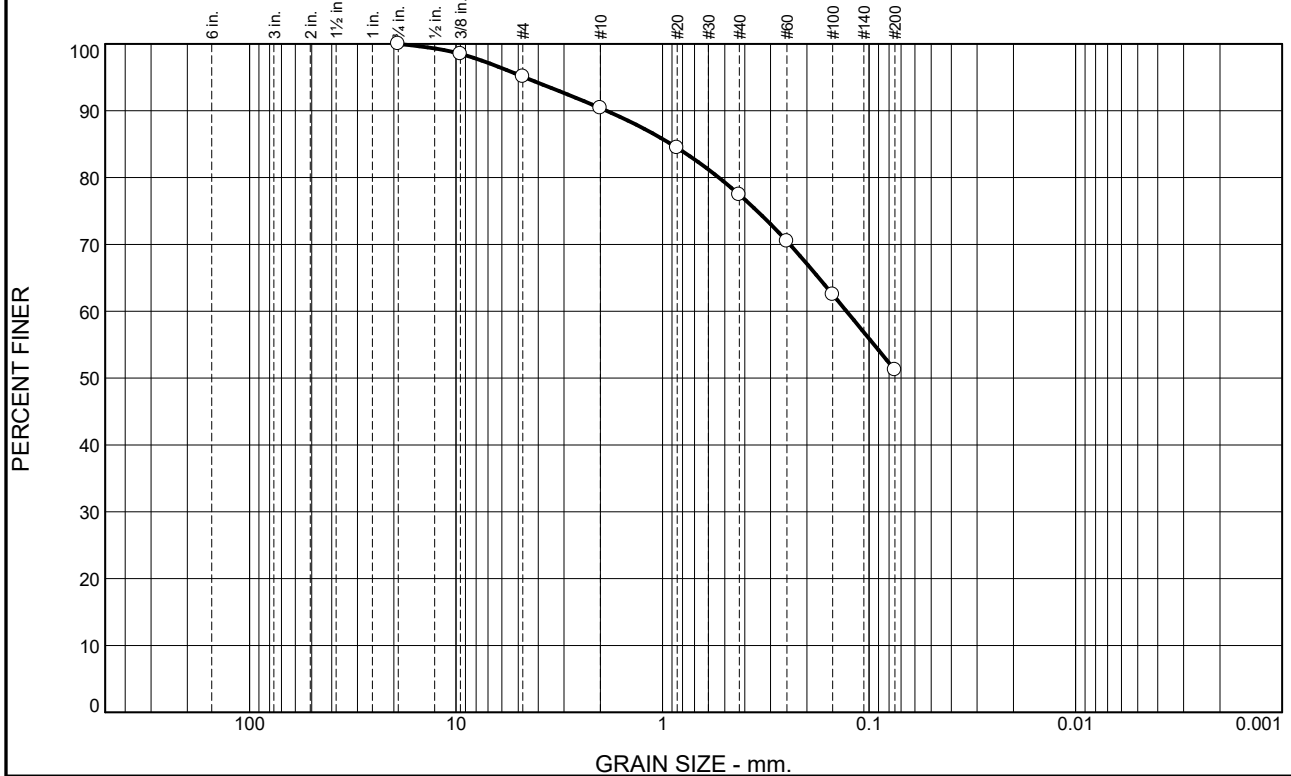
Source of Sample: C-6              Depth: 4-6 ft.  
 Sample Number: S-3

Date: 7-8-2021

<b>SKYLANDS TESTING, LLC</b>  <b>Sparta, NJ</b>	<b>Client:</b> Soiltesting, Inc. <b>Project:</b> Pugsley Road Brewster, NY 10509  <b>Project No:</b> G-1831
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Tested By: RS                      Checked By: VRS

# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	4.9	4.7	13.0	26.2	51.2	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.75	100.0		
.375	98.5		
#4	95.1		
#10	90.4		
#20	84.5		
#40	77.4		
#60	70.5		
#100	62.5		
#200	51.2		

**Material Description**

Brown sandy silt

**Atterberg Limits**

PL=                      LL=                      PI=

**Coefficients**

D<sub>90</sub>= 1.8676                      D<sub>85</sub>= 0.9076                      D<sub>60</sub>= 0.1286  
 D<sub>50</sub>=                                  D<sub>30</sub>=                                  D<sub>15</sub>=  
 D<sub>10</sub>=                                  C<sub>u</sub>=                                  C<sub>c</sub>=

**Classification**

USCS= ML                      AASHTO=

**Remarks**

Sample washed on #200 sieve  
 USCS based on dilatancy & plasticity per ASTM D2488

\* (no specification provided)

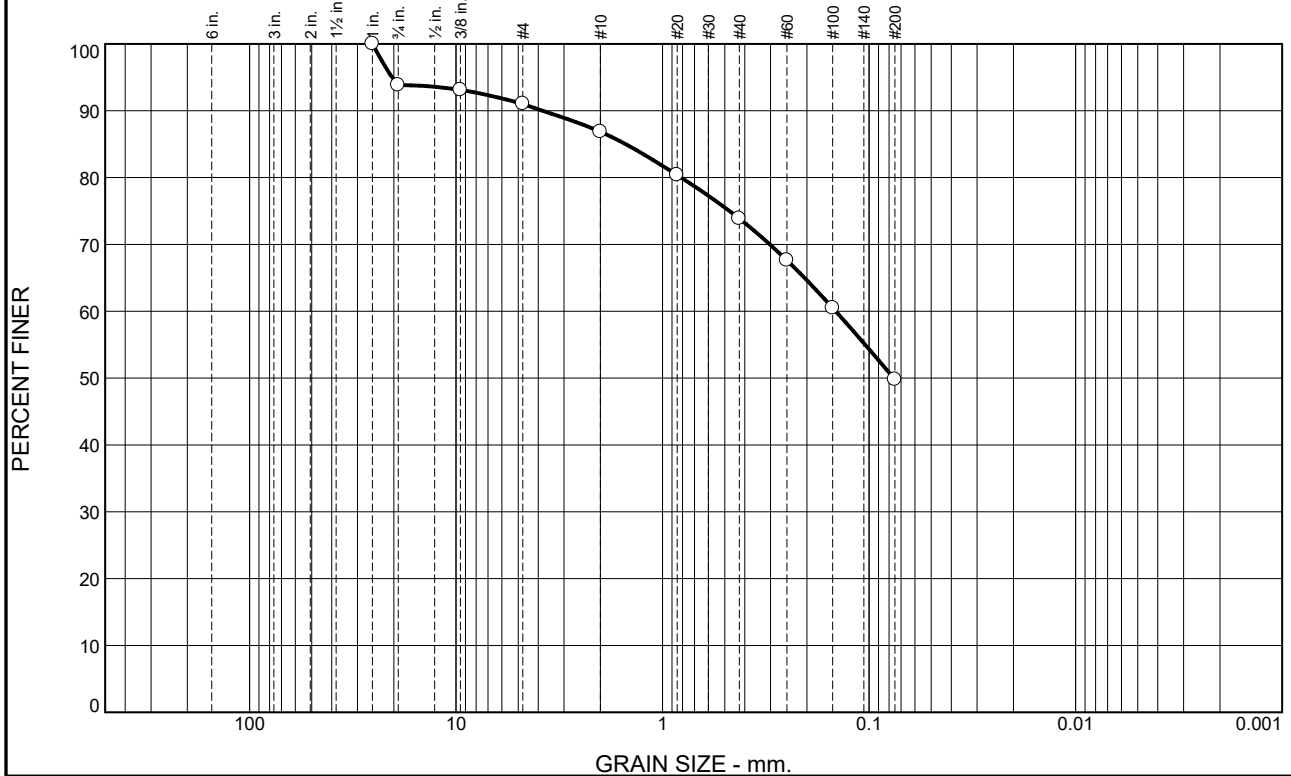
Source of Sample: C-6                      Depth: 6-8 ft.  
 Sample Number: S-4

Date: 7-8-2021

<b>SKYLANDS TESTING, LLC</b>	Client: Soiltesting, Inc. Project: Pugsley Road Brewster, NY 10509 Project No: G-1831
<b>Sparta, NJ</b>	<b>Figure</b>

Tested By: RS                      Checked By: VRS

# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	6.2	2.8	4.1	13.0	24.1	49.8	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1	100.0		
.75	93.8		
.375	93.1		
#4	91.0		
#10	86.9		
#20	80.4		
#40	73.9		
#60	67.6		
#100	60.5		
#200	49.8		

**Material Description**

Brown silty sand

**Atterberg Limits**

PL=                      LL=                      PI=

**Coefficients**

D<sub>90</sub>= 3.8139                      D<sub>85</sub>= 1.5091                      D<sub>60</sub>= 0.1451  
D<sub>50</sub>= 0.0759                      D<sub>30</sub>=                      D<sub>15</sub>=  
D<sub>10</sub>=                      C<sub>u</sub>=                      C<sub>c</sub>=

**Classification**

USCS= SM                      AASHTO=

**Remarks**

Sample washed on #200 sieve  
USCS based on dilatancy & plasticity per ASTM D2488

\* (no specification provided)

Source of Sample: C-8                      Depth: 4-6 ft.  
Sample Number: S-3

Date: 7-8-2021

<b>SKYLANDS TESTING, LLC</b>  <b>Sparta, NJ</b>	<b>Client:</b> Soiltesting, Inc. <b>Project:</b> Pugsley Road Brewster, NY 10509 <b>Project No:</b> G-1831
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Tested By: RS                      Checked By: VRS

# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	3.6	6.8	14.3	26.7	48.6	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.75	100.0		
.375	97.5		
#4	96.4		
#10	89.6		
#20	82.7		
#40	75.3		
#60	68.0		
#100	59.7		
#200	48.6		

**Material Description**

Brown silty sand

**Atterberg Limits**

PL=                      LL=                      PI=

**Coefficients**

D<sub>90</sub>= 2.0853                      D<sub>85</sub>= 1.1236                      D<sub>60</sub>= 0.1524  
D<sub>50</sub>= 0.0818                      D<sub>30</sub>=                      D<sub>15</sub>=  
D<sub>10</sub>=                      C<sub>u</sub>=                      C<sub>c</sub>=

**Classification**

USCS= SM                      AASHTO=

**Remarks**

Sample washed on #200 sieve  
USCS based on dilatancy & plasticity per ASTM D2488

\* (no specification provided)

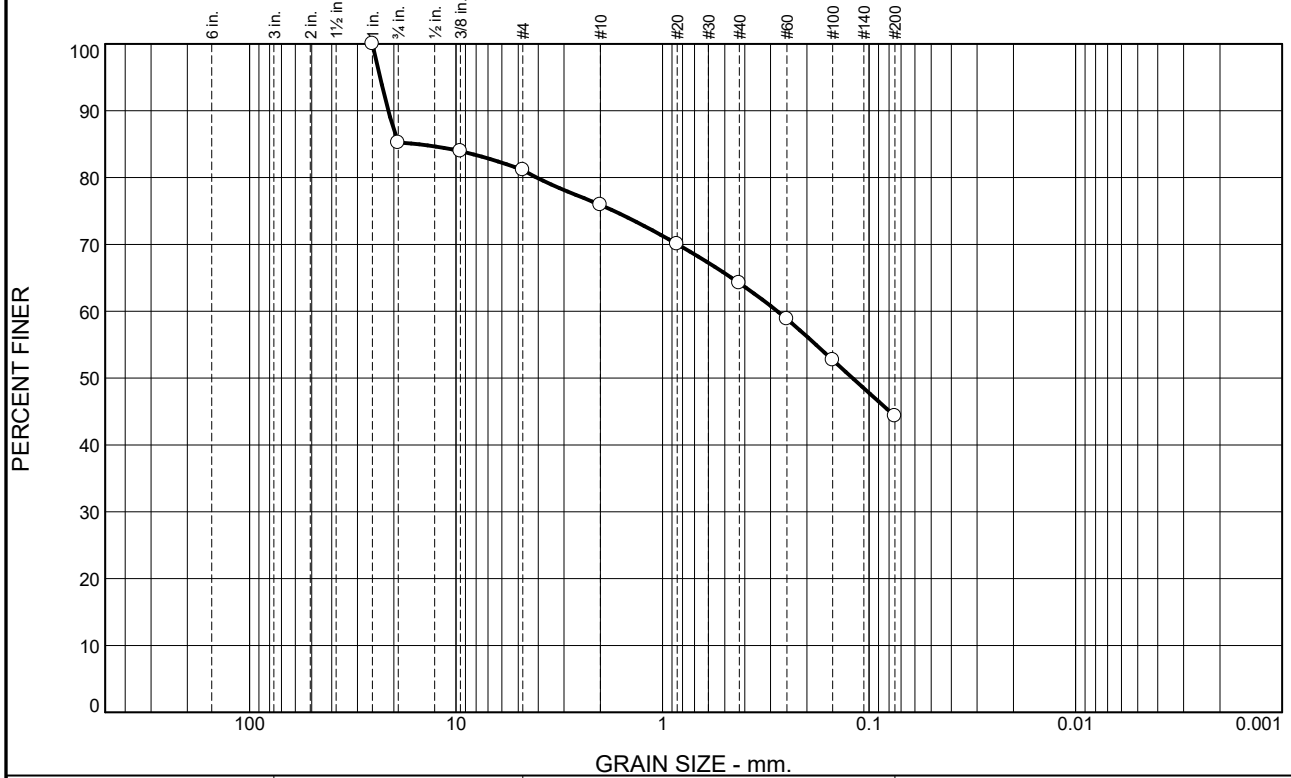
Source of Sample: C-8                      Depth: 6-8 ft.  
Sample Number: S-4

Date: 7-8-2021

<b>SKYLANDS TESTING, LLC</b>	<b>Client:</b> Soiltesting, Inc. <b>Project:</b> Pugsley Road Brewster, NY 10509
<b>Sparta, NJ</b>	<b>Project No:</b> G-1831 <b>Figure</b>

Tested By: RS                      Checked By: VRS

# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	14.8	4.1	5.2	11.7	19.9	44.3	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1	100.0		
.75	85.2		
.375	84.0		
#4	81.1		
#10	75.9		
#20	70.0		
#40	64.2		
#60	58.8		
#100	52.7		
#200	44.3		

**Material Description**

Brown silty sand with gravel

**Atterberg Limits**

PL=                      LL=                      PI=

**Coefficients**

D<sub>90</sub>= 21.2699      D<sub>85</sub>= 15.3646      D<sub>60</sub>= 0.2781  
D<sub>50</sub>= 0.1202      D<sub>30</sub>=                      D<sub>15</sub>=  
D<sub>10</sub>=                      C<sub>u</sub>=                      C<sub>c</sub>=

**Classification**

USCS= SM                      AASHTO=

**Remarks**

Sample washed on #200 sieve  
USCS based on dilatancy & plasticity per ASTM D2488

\* (no specification provided)

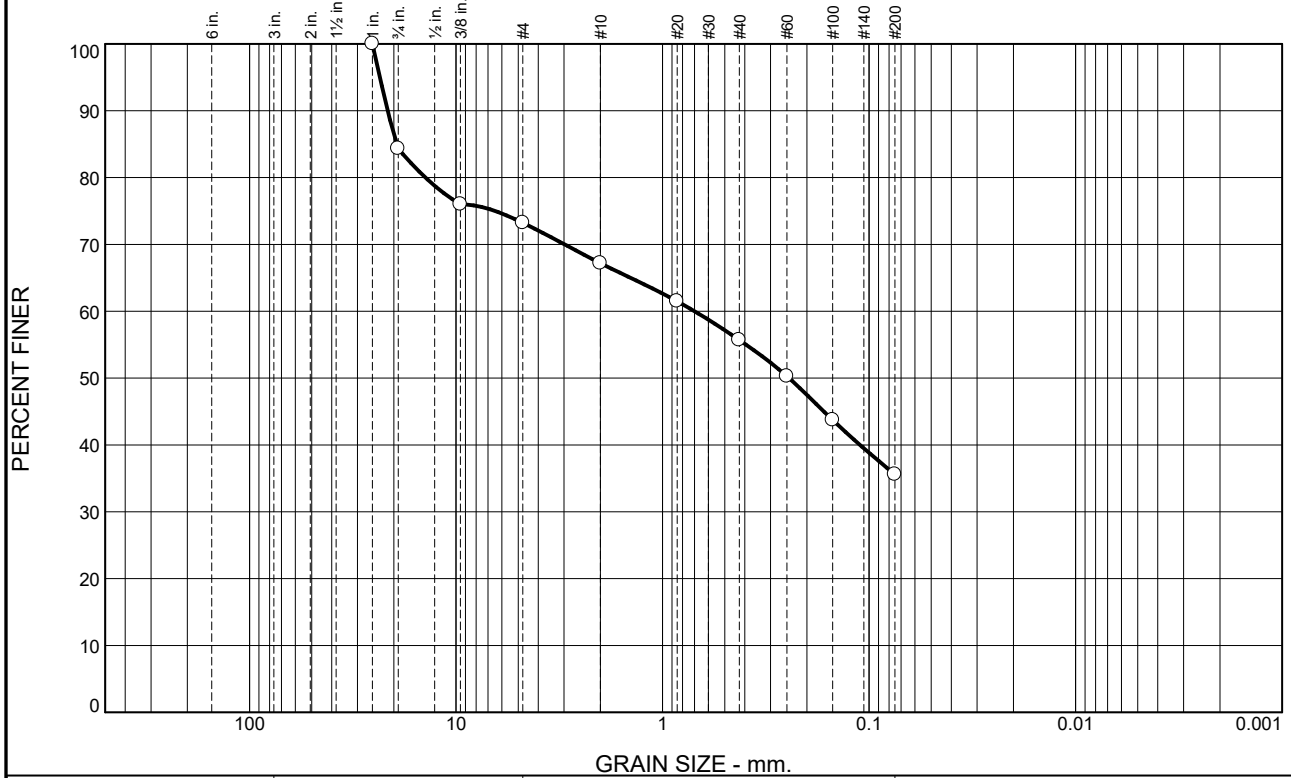
Source of Sample: C-9      Depth: 4-6 ft.  
Sample Number: S-3

Date: 7-8-2021

<b>SKYLANDS TESTING, LLC</b>	<b>Client:</b> Soiltesting, Inc. <b>Project:</b> Pugsley Road Brewster, NY 10509
<b>Sparta, NJ</b>	<b>Project No:</b> G-1831 <b>Figure</b>

Tested By: RS                      Checked By: VRS

# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	15.7	11.1	6.0	11.5	20.1	35.6	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1	100.0		
.75	84.3		
.375	76.0		
#4	73.2		
#10	67.2		
#20	61.5		
#40	55.7		
#60	50.3		
#100	43.7		
#200	35.6		

**Material Description**

Brown and white silty sand with gravel

**Atterberg Limits**

PL=                      LL=                      PI=

**Coefficients**

D<sub>90</sub>= 21.4205      D<sub>85</sub>= 19.3525      D<sub>60</sub>= 0.6997  
 D<sub>50</sub>= 0.2442      D<sub>30</sub>=                      D<sub>15</sub>=                        
 D<sub>10</sub>=                      C<sub>u</sub>=                      C<sub>c</sub>=

**Classification**

USCS= SM                      AASHTO=

**Remarks**

Sample washed on #200 sieve USCS based on dilatancy & plasticity per ASTM D2488

\* (no specification provided)

Source of Sample: C-9      Depth: 6-8 ft.  
 Sample Number: S-4

Date: 7-8-2021

<b>SKYLANDS TESTING, LLC</b>	Client: Soiltesting, Inc.
<b>Sparta, NJ</b>	Project: Pugsley Road Brewster, NY 10509
	Project No: G-1831
	Figure

Tested By: RS                      Checked By: VRS