

# CARLIN • SIMPSON & ASSOCIATES

## Consulting Geotechnical and Environmental Engineers

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1 June 2012

Midora/Glenmark Partners, LLC 146 Main Street Tuckahoe, New York 10707

Attn: Mr. Glen Vetromile

Re: Preliminary Report on Subsurface Soil and Foundation Investigation

The Glenmark
Main Street

Tuckahoe, NY (12-14)

Dear Mr. Vetromile:

We understand that the planned construction will consist of two new buildings. Building 1 will be a multi-story structure with surface parking. Building 2 will be a two to six story structure with a mixed garage/residential capacity of various combinations:

- Two story garage on grade with roof top terrace
- Four story residential on grade
- Two story residential over two story garage on grade
- Four story residential over two story garage on grade

The site improvements include retaining wall structures, new utilities and paves parking lots and driveways.

The following is a summary of the preliminary geotechnical design recommendations for the referenced project. During this study, thirty (30) test borings were performed at the subject site at the locations shown on the attached Boring Location Plan. Borings B-1 through B-8, B-27 and B-28 were performed for Building 1. The remaining borings were performed for Building 2. The boring data is summarized in the following table.

**Table 1 – Summary of Boring Data** 

Boring No.	Approximate Ground Surface Elevation (Feet)	Observed Depth to Groundwater (Elevation)	Approximate Depth to Bottom of Existing Fill (Elevation)	Approximate Depth to Bottom of Organic Silt (Elevation)
B-1	+101.0	7'6" (+93.5)	7'6" (+93.5)	NE
B-2	+104.0	8'6" (+95.5)	5'0" (+99.0)	8'0" (+96.0) <sup>1</sup>
B-3	+101.0	8'6" (+92.5)	2'0" (+99.0)	NE
B-4	+101.0	9'0" (+92.0)	5'0" (+96.0)	NE
B-5	+101.0	8'0" (+93.0)	2'0" (+99.0)	NE
B-6	+101.5	10'0" (+91.5)	5'0" (+96.5)	12'0" (+89.5) <sup>2</sup>
B-7	+101.5	6'0" (+95.5)	9'0" (+92.5)	11'6" (+90.0) <sup>3</sup>
B-8	+101.0	6'6" (+94.5)	1'6" (+99.5)	NE
B-9	+106.0	13'0" (+93.0)	8'0" (+98.0)	11'0" (+95.0) 4
B-10	+103.0	13'0" (+90.0)	6'0" (+97.0)	12'0" (+91.0) 5
B-11	+110.0	16'0" (+94.0)	3'0" (+107.0)	NE
B-12	+111.0	16'0" (+95.0)	2'0" (+109.0)	NE
B-13	+113.0	17'0" (+96.0)	NE	NE
B-14	+111.0	17'0" (+94.0)	NE	NE
B-15	+106.5	11'0" (+95.5)	6'6" (+100.0)	NE
B-16	+103.5	9'6" (+94.0)	7'6" (+96.0)	NE
B-17	+104.5	10'0" (+94.5)	5'0" (+99.5)	NE
B-18	+108.0	14'0" (+94.0)	6'0" (+102.0)	NE
B-19	+123.0	NE	14'0" (+109.0)	NE
B-20	+118.0	12'0" (+106.0)	8'0" (+100.0)	NE
B-21	+108.0	15'0" (+93.0)	7'0" (+101.0)	NE
B-22	+124.0	NE	9'0" (+115.0)	NE
B-23	+111.5	NE	11'6" (+100.0)	NE
B-24	+106.5	10'0" (+96.5)	6'0" (+100.5)	NE
B-25	+113.0	16'0" (+97.0)	NE	NE
B-26	+112.0	18'6" (+93.5)	13'6" (+98.5)	16'0" (+96.0) <sup>6</sup>
B-27	+101.0	7'6" (+93.5)	2'0" (+99.0)	NE
B-28	+101.0	7'6" (+93.5)	2'0" (+99.0)	7'6" (+93.5) <sup>7</sup>
B-29	+107.0	11'6" (+95.5)	7'0" (+100.0)	NE
B-30	+113.0	17'0" (+96.0)	5'0" (+108.0)	NE

## Notes:

NE – Not encountered in boring.

- 1. B-2, Organic Silt layer 5'0" to 8'0"
- 2. B-6, Organic Silt layer 10'0" to 12'0"
- 3. B-7, Organic Silt layer 9'0" to 11'6"
- 4. B-9, Organic Silt layer 10'0" to 11'0"
- 5. B-10, Organic Silt layer 10'0" to 12'0"
- 6. B-26, Organic Silt layer 13'6" to 16'0"
- 7. B-28, Peat layer 6'0" to 7'6"

#### SUBSURFACE CONDITIONS

To determine the subsurface soil and groundwater conditions within the planned areas of development, we advanced thirty (30) test borings at the locations shown on the enclosed Boring Location Plan. Upon the completion of boring B-4 and B-24, groundwater monitoring wells were installed in the bore holes. Detailed boring logs have been prepared and are included in this report. Our inspector visually identified the soil samples obtained from the test borings. Selected samples were tested in our laboratory for gradation. The results of the testing are included in this report.

## **Soil**

The soil descriptions shown on the boring logs are based on the Burmister Classification System. In the Burmister Classification System, the soil is divided into three components: Sand (S), Silt (\$) and Gravel (G). The major component is indicated in all capital letters, the lesser in lower case letters. The following modifiers indicate the quantity of each lesser component:

<b>Modifier</b>	<b>Quantity</b>
trace (t)	0 - 10%
little (l)	10% - 20%
some (s)	20% - 35%
and (a)	35% - 50%

The subsurface soil conditions encountered in the test borings may be summarized as follows:

- 1. <u>Asphalt and Concrete</u> The surface layer in 11 of the 30 borings is asphalt pavement, ranging from 1.5 inches to 3 inches in thickness. Beneath the asphalt in borings B-18 and B-24, respectively is concrete pavement one foot and 6 inches in thickness, respectively.
- 2. <u>FILL –Sand with Silt and Gravel or Gravel with Sand and Silt</u> Beneath the asphalt and concrete where present and at the surface in the other borings, except borings B-13, B-14 and B-25 is existing fill comprised of very loose to medium dense brown coarse to fine SAND, trace to some Silt, little to and coarse to fine Gravel or gray coarse to fine GRAVEL and, coarse to fine Sand, trace to little Silt. Debris such as ash, asphalt, brick, concrete, coal, and wood was noted within the fill at several of the boring locations. Where encountered in the borings, the existing fill extends to depths ranging from 1'6" to 14'6" below the existing ground surface.
- 3. <u>Sand or Sand with Silt and Gravel</u> Underlying the fill at most of the boring locations are various sand layers comprised of loose to medium dense brown coarse to fine Sand, trace to little Silt, trace to little coarse to fine Gravel.

- 4. <u>Silt with Sand</u> Below the Stratum 3 Sand in borings B-6 and B-14 and beneath the fill in boring B-10 is soft to stiff brown SILT some to and, coarse to fine Sand, trace fine Gravel. The sandy silt continues to a depth of 10 feet in b B-6 and B-10 and to a depth of 23'6" in boring B-14.
- 5. Organic Silt or Peat Soft to medium stiff organic SILT trace to some, coarse to fine Sand was encountered in borings B-2, B-6, B-7, B-9, B-10, and B-26 extending to depths of 8'0" and 16'0" below the ground surface. Soft brown peat was observed in boring B-28, between the depths of 6'0" and 7'6".
- 6. Sand, Sand with Gravel, or Sand with Silt and Gravel Beneath the various layers of fill, Stratum 3 Sand, Stratum 4 silty sand, and Stratum 5 organic silt or peat, where present, is loose to medium dense brown or gray coarse to fine SAND, trace to little Silt, trace to little coarse to fine Gravel.
- 7. Gravel with Sand Very dense brown or gray coarse to fine GRAVEL and, coarse to fine Sand, trace Silt was encountered in borings B-10 and B-17 beginning at depths of 52'0" and 20'0", respectively. Boring B-10 was terminated in this stratum at a final depth of 56'6".
- 8. Weathered Schist In borings B-17, B-19, B-20, B-22 and B-23 the virgin soils transition into completely or highly weathered schist bedrock. The weathered was encountered at depths ranging from 14'0" to 25'0" below the existing ground surface. "Auger refusal" indicating more competent rock was encountered in boring B-19 at a depth of 20'0" (elevation +103).

## Groundwater

- Groundwater was encountered in each of the borings, except B-19, B-22 and B-23, at depths ranging from 6'0" to 18'6" below the existing ground surface. These depths correspond to a water level between about elevation +90.0 feet and elevation +106.0 feet. At most locations, the water level was typically observed between elevations +93.0 feet and +97.0 feet.
- To monitor the fluctuation of groundwater on the site, groundwater monitoring wells were installed at borings B-4 and B-24. On 30 May 2012, the groundwater level at was observed in borings B-4 and B-24 at about elevation + 94.8 feet and +95.8 feet.
- The groundwater conditions are summarized in Table 1.
- Groundwater will be encountered during construction where deep excavations are required to remove the existing fill and organic silt and peat materials. Water seepage may also be encountered within the fill, above restrictive soil layers or above the weathered rock stratum.
- Sump pits and pumps should be used to control the flow of water and to remove the water from the excavations. Where the required excavation will extend more than 2 feet below the groundwater level, a well point or deep well dewatering system may be required to temporarily lower the groundwater level during construction.

## **Existing Fill, Organic Silt and Peat**

- The existing fill and organic materials encountered at this site are not suitable for supporting the new building foundations and floor slabs.
- The existing fill, organic silt and peat observations are summarized in the Table 1 above.
- Loose to medium dense existing fill was encountered in 27 of the 30 borings extending to depths ranging from 1'6" to 14'6" below the existing ground surface. Debris such as ash, asphalt, brick, concrete, coal, and wood was noted within the fill at several of the boring locations.
- Soft to medium stiff organic SILT trace to some, coarse to fine Sand was encountered in borings B-2, B-6, B-7, B-9, B-10, and B-26 extending to depths of 8'0" and 16'0" below the ground surface. Soft brown peat was observed in boring B-28, between the depths of 6'0" and 7'6".
- Supplemental test pits will be required during construction to establish the horizontal and vertical limits of the unsuitable existing fill and organic materials.

## **Weathered Schist Bedrock**

- Weathered schist bedrock was encountered in borings B-17, B-19, B-20, B-22 and B-23. The weathered was encountered at depths ranging from 14'0" to 25'0" below the existing ground surface. "Auger refusal" indicating more competent rock was encountered in boring B-19 at a depth of 20'0" (elevation +103).
- Penetration into the weathered bedrock with excavation equipment will depend of the degree of weathering and fracturing in the rock. Based on our observations, harder rock will likely be encountered in deep cuts in the southeastern portion of the site and the use of hydraulic hammers will be required to excavate the harder, intact bedrock.

#### Removal of Existing Structures and Utilities from the New Addition Area

- The construction of the new building will require the demolition of the existing building. The structures and associated debris must be completely removed from the new building area. This shall include the complete removal of all foundations, walls, concrete slabs, utilities, pavement, and associated miscellaneous debris within the limits of the demolition and the new building.
- Where the removal of structures, utilities and associated materials extends below the planned addition subgrade elevation, the resulting excavations shall be backfilled with new compacted fill.

# Complete Removal of Existing Fill and Organic Materials and Replacement with New Compacted Fill

- In order to prepare the new building areas for construction, the existing fill organic silt and peat layers, where present shall be completely removed from the new building area down to the underlying virgin sandy soil and replaced with new compacted fill. The removal of the existing fill from the new foundation areas shall be performed under the full time inspection of Carlin-Simpson & Associates.
- The excavation shall be backfilled with new compacted fill. New compacted fill shall consist of either the suitable on-site soil or imported sand and gravel. Imported sand and gravel shall contain less than 20 percent by weight passing a No. 200 sieve. The fill shall be placed in layers not exceeding one foot in loose thickness and each layer compacted to at least 95 percent of its Maximum Modified Dry Density (ASTM D1557). Each layer shall be compacted, tested, and approved prior to placing subsequent layers.
- Based on the boring data, we expect that some of the excavated fill material will be suitable for re-use as new compacted fill, provided that the material is not contaminated with petroleum or other substances, remains relatively dry enough for proper compaction and that any debris or organic materials has been removed prior to its placement.

## **Preparing Wet or Soft Subgrades**

- The excavation to remove the existing fill and organic materials may extend down to or below the groundwater level. In the event that the exposed subgrade within the excavation is wet, stabilizing the subgrade surface will be required in order to backfill the excavation.
- We anticipate that the use of sump pits and pumps for dewatering will only be effective where the groundwater level is within one foot of the planned bottom of the excavation. A well point system, deep well or other method of dewatering will likely be required to locally lower the groundwater level below the excavation elevation. The dewatering system selected must be capable of operating 24 hours a day until construction is above the water table.
- The subgrade should be stabilized with geotextile filter fabric and crushed stone to provide a working platform for the installation of new structural fill. The geotextile filter fabric should consist of Mirafi 500X or equivalent. Approximately eighteen inches of ¾-inch clean crushed stone will be needed on top of the filter fabric layer to provide a firm bearing surface for the placement of new structural fill. A second layer of fabric should be placed over the gravel fill prior to backfilling the excavation with soil fill.

## **New Building Foundations**

- The new foundations may be designed as spread footing type foundations bearing on the virgin soil, weathered rock or on new Engineer-approved compacted fill.
- Net allowable design bearing pressure = 4,000 psf.
- Minimum depth for frost protection = 4 feet.
- New foundation may not be constructed on existing fill or over the organic layers.

## **Building Settlement**

- Building 2 will be a two to six story structure with a mixed garage/residential capacity of various combinations. We have been provided with the following preliminary column and wall loads. The anticipated settlement have been calculated to be as follows:

**TABLE 2 – Building 2 Anticipated Settlements** 

Building Area	Preliminary Loading	Anticipated Settlement
Two Story Garage on Grade with Roof Top Terrace		
Retaining Wall Load	6.7 kips/ft	0.01" – 0.20"
Internal Concrete Garage Wall Load	13.3 kips/ft	> 0.5"
Post Load within the Garage	228 kips	0.75" – 1.0"
Four Story Residential on Grade		
Wall Loads	3.5 to 5.2 kips/ft	0.1" – 0.2"
Masonry Stair and Elevator Tower Loads	2.6 kips/ft	0.13" – 0.15"
Two Story Residential over Two Story Garage on Grade		
Post Load within the Garage	301 kips	0.6" – 1.0"
Four Story Residential over Two Story Garage on Grade		
Retaining Wall Load	8.9 kips/ft	0.01"
Post Load within the Garage	38.7 kips/ft	0.1" – 0.75"
Masonry Stair and Elevator Tower Loads	3.7 kips/ft	0.4"

- The higher settlements will occur at the footings with the higher column loads and where loose virgin sands are present beneath the foundation. Settlement is expected to be negligible for footings bearing on weathered rock.
- Due to the sandy nature of the subsurface soils, we anticipate that the foundation settlements will occur rather quickly as the building dead loads are applied during construction and the various live loads are experienced.
- Building load information has not been provided for the proposed building on the western side of Midland Place. When the building loads are made available, Carlin-Simpson & Associates can evaluate the anticipated settlement.

## Foundation Subgrade Improvement for Settlement Control

- Foundation subgrade improvement may be required at some foundation locations for settlement control. Preliminarily, we anticipate an over-excavation of 2 to 3 feet will be required. Once the foundation loads are finalized, Carlin-Simpson & Associates will prepare a foundation excavation schedule which will tabulate the depth of over-excavation at each foundation location required for settlement control.

## **New Floor Slabs**

- The new floor slab may be supported on the weathered rock, engineer-approved virgin soil and new compacted fill. Selective removal and replacement of unsuitable existing fill, organic materials or soft soils will be required.
- The floor slab may be designed as a slab on grade using a Modulus of Subgrade Reaction = 200 pci. A minimum of six (6) inches of ¾-inch crushed stone shall be provided beneath the floor slab for drainage and additional slab support. Where rock is encountered at the floor slab bearing subgrade, a minimum of twelve (12) inches of crushed stone should be provided below the slab for drainage.

## **Seismic**

- The new buildings shall be designed to resist stress produced by lateral forces computed in accordance with the New York State Building Code. The project site can be classified as Site Class D – Stiff Soil Profile.

# <u>TABLE 3 – Seismic Design Values</u>

Mapped Spectral Response Acceleration for Short Periods, [Fig 1615 (1)]	$S_S = 0.358g$
Mapped Spectral Response Acceleration at 1-Second Period, [Fig 1615 (2)]	$S_{S1}=0.070g$
Site Coefficient [Table 1615.1.2 (1)]	$F_a=1.514$
Site Coefficient [Table 1615.1.2 (2)]	$F_{v}=2.40$
Max Considered Earthquake Spectral Response for Short Periods [Eq 16-16]	$S_{MS} = 0.541g$
Max Considered Earthquake Spectral Respond at 1-Second Period [Eq 16-17]	$S_{M1}=0.169g$
Design Spectral Response Acceleration for Short Periods [Eq 16-18]	$S_{DS} = 0.361g$
Design Spectral Response Acceleration for 1-Second Period [Eq 16-19]	$S_{D1}=0.113g$

#### **Foundation Wall Design Parameters**

- The soil adjacent to the foundation walls will exert a horizontal pressure against the walls. This pressure is based on the soil density and the coefficient of earth pressure at rest  $(k_o)$  which is applicable to non-yielding foundation walls.
- For design, the following values may be used:
  - o In-place density of soil behind wall = 130 pcf
  - o Angle of internal friction (phi) = 30 degrees
  - o Coefficient of Earth Pressure at Rest,  $k_o = 0.50$
  - o Equivalent fluid pressure = 65 psf/ft against the walls
  - o Coefficient of Passive Pressure,  $k_p = 3.00$
  - $\circ$  Soil/concrete friction factor = 0.45
- Drainage must be provided behind the wall. We recommend that a footing drain be placed behind the foundation wall to prevent water from accumulating against the foundation wall. This drain may consist of a minimum 6-inch diameter rigid wall, perforated PVC pipe surrounded by at least 12 inches of 3/4-inch clean crushed stone. The stone shall be wrapped in a geotextile fabric, Mirafi 140N or equivalent. The foundation drainpipe should be extended to the stormwater collection system.
- Backfill placed adjacent to the foundation walls and above the footing drain shall consist of the suitable on-site sand and gravel soils, clean crushed stone or imported sand and gravel containing less than 10 percent by weight passing a No. 200 sieve. The drainage fill shall be placed in layers not exceeding one foot in thickness.

## **Underpinning Adjacent Buildings**

- A test pit (TP-1) was conducted at the northeastern corner of the building at 42 Midland Place. The bottom of the existing foundation was observed at about elevation +99.5 feet.
- Test pits TP-2 and TP-3 were conducted at the northwestern corner of the western property near the northeastern and southwestern corners of the adjacent building, respectively. The bottom of the existing foundation was observed in test pits TP-2 and TP-3 at about elevations +103.5 feet and +101.8 feet.
- Where the new construction extends below the existing foundations for the adjacent buildings underpinning will be required. Traditional concrete underpinning can be used for this project.

#### **Excavation – Slopes and Slope Protection**

 Deep excavations will be required at some locations to remove the existing fill, organic materials and to achieve the lower level. Temporary construction excavations should be conducted in accordance with the most recent OSHA guidelines or applicable federal, state or local codes.

- Based on the test boring data and groundwater conditions, we believe that the site soils would be considered a Type 'C' soil as defined by the OSHA regulations. An evaluation of the site soil deposits will be required by a qualified person at the time of the excavation to determine which OSHA soil classification should be used.
- Temporary support (i.e. sheeting and shoring) should be used for any excavation that cannot be sloped or benched in accordance with the applicable regulations or where necessary to protect adjacent utilities and structures.
- In the event that water is encountered within the excavation, an evaluation of the excavation's stability must be performed. Water seepage or saturated soil conditions encountered within the excavation could destabilize the sides of the excavation. Temporary support would be required to stabilize the excavation.
- Drilled steel pipe piles with timber lagging would be an appropriate temporary excavation support system for the site. For the steel pile and timber lagging system, we expect that the pipe piles will be spaced about 6 to 8 feet apart. As the excavation is made, wood lagging is inserted behind the pipe pile to complete the temporary wall. Depending upon the required depth of the excavation, an anchor, raker or other tieback system may be required to restrain the horizontal force on the wall.
- A New York State licensed professional engineer must design all temporary and permanent support systems.
- The soil adjacent to the temporary support system will exert a horizontal pressure against the system. This pressure is based on the soil density, the coefficient of active earth pressure ( $k_a$ ), and the depth of the excavation. We estimate the in-situ soil has an in place density of about 130 pcf and an angle of internal friction,  $\phi = 32^{\circ}$ . The active earth pressure coefficient,  $k_a$ , is therefore 0.307. In addition, the surcharge loads from adjacent buildings, roadways, construction equipment, or stored materials near the excavation must be incorporated into the design of the temporary support system. Applicable hydrostatic loading must also be considered.

#### **Utilities**

- New utilities can be supported by the existing site soils. The bottom of all trenches must be cleaned of loose material and shaped to provide firm support for the pipe. Where existing fill is encountered within the utility excavations, the subgrade at bottom of the utility excavation shall be compacted in place with a vibratory drum trench compactor. Carlin-Simpson & Associates must evaluate these areas for the presence of soft or unsuitable material within the existing fill matrix.
- If any soft soils or unsuitable existing fill conditions are encountered during construction, these materials must be removed and replaced with new compacted fill. Carlin-Simpson & Associates will determine this during construction.
- After the utility is installed, the trench must be backfilled with compacted fill. The fill shall be suitable on-site soil or imported sand and gravel. Imported sand and

gravel shall contain less than 20 percent passing a No. 200 sieve. Controlled compacted fill shall be placed in one foot layers and each layer compacted to at least 92 percent of its Maximum Modified Dry Density (ASTM D1557).

## Suitability of Site Soils for Use as Compacted Fill

- We expect that some of the excavated fill material will be suitable for re-use as new compacted fill, provided that the material is not contaminated with petroleum or other substances, remains relatively dry enough for proper compaction and that any debris or organic materials has been removed prior to its placement.
- Debris and other unsuitable material must be removed from the fill. We recommend that the existing fill material be screened to remove the debris material from the sandy soil, to make re-usable as compacted fill.
- The organic silt and peat are not suitable for reuse and will need to be removed from the project site.
- Topsoil is not suitable for use as compacted fill.
- Asphalt is not suitable for use as compacted fill in building areas.
- Proper moisture conditioning of the soil will be required. In the event that the onsite material is too wet at the time of placement and cannot be adequately compacted, the soil should be aerated and allowed to dry or the material removed and a drier clean fill material used.
- An environmental evaluation of the site is beyond the scope of this study. An Environmental Engineer must address the suitability of the on-site soils for use on the project site with respect to any environmental concerns. Proper disposal of all contaminated soil must be in accordance with federal and state regulations.

Thank you for allowing us to assist you with this project. Should you have any questions or comments, please contact this office.

Very truly yours,

**CARLIN-SIMPSON & ASSOCIATES represented by:** 

Robert H. Barnes

ROBERT H. BARNES, P.E. Senior Project Engineer

Robert B. Simpson

ROBERT B. SIMPSON, P.E.

Peoject:   The Glemmark, Main Street, Tuckshoe, NY   SHEET NO:   1 of 2	CARI			& ASSOC	CIA	TES		TEST BO	RING LO	G		BORING NUMB	
Client   Midora/Glemantk Partners, LLC   JOB NUMBER:   12-14			•										B-1
Diffiling Contractor:   General Borings, Inc.								<u>IY</u>					
CASING   SAMPLE   CORE   TUBE   DATUM:   Topo							LC						
DATE   TIME   DEPTH   CASING   TYPE   HSA   SS   STRIP ATE   20 Apr 12		_		General I	30r	ings, inc.		CACING	CAMDIE	CODE	TIDE		
20 Apr 12				рерти	C	ASINC	TVDE			CORE	TUBE		
Depth   Casing   Sample   Sample   Foot   Sample   Foot   Sample   Foot   Sample													
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(ft.)   Blows   Number   Sample   Spoon   Spoon   DENTIFICATION   REMARKS     1													
Per   Spoon   Per 6'   Spoon   Per 6'   DENTIFICATION   REMARKS	Depth	Casing	Sample	Blows on	S						•		
Per   Poot   P	(ft.)	Blows	Number	Sample	y								
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S-2   S   S   S   S   S   S   S   S   S	1		5-1										
S-2	2						5110, 110010	204150 00 1	014,01	<u> </u>	10		
S-3						Br cf S, 1 (	(-) \$, 1 (-) c	f G					
S-3	3		S-2	7									
S-3   S-3   S-3   Same   Rec = 19"   moist-very moist    8												moist	
S-3	4			7									
S-3	5												
8	3			5		came							
S	6		S-3	-		Same						Rec = 19"	
Silt, little (-) coarse to fine Grave			2 0				Brown co	arse to fin	e SAND, lit	ttle (-)			
9	7			5								J	
9													
10	8												
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S-4	9												
S-4	10												
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CAR			& ASSOC	CIA	TEST BORING LOG	BORING NUMBE	
Project		yreville, l The Glen		ain	Street, Tuckahoe, NY	SHEET NO.:	<b>B-1</b> 2 of 2
Client:					rtners, LLC	JOB NUMBER:	12-14
	Casing	Sample	Blows on		IDENTIFICATION	REMAR	
	1000		per o				
23 24					Brown coarse to fine SAND, trace (+) Silt, trace medium to fine Gravel		
25							
26		S-7	4 5		Br cf S, t (+) \$, t mf G	Rec = 21" wet	
27			5		27'0"	wet	
28					End of Boring @ 27'0"		
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
41							
42							
43 44							
44							
45							
47							

CARI			& ASSOC	CIA	ATES		TEST BO	RING LO	G		BORING NUMB	
		yreville, l										B-2
Project						uckahoe, N	NY				SHEET NO.:	1 of 2
Client:	<b>C</b> 4	Midora/0	Glenmark								JOB NUMBER:	12-14
	g Contra		General I	30r	ings, Inc.	Ī	C A CIDIC	CANEDI E	CODE	(DI IDE	ELEVATION:	+104.0
	NDWA'		DEPTH		ACING	TYPE		SAMPLE	CORE	TUBE		Toppo
DA' 20 Apr		1500	8'6"		ASING Auger	DIA.	HSA 3 1/4"	SS 1 3/8"			START DATE: FINISH DATE:	20 Apr 12 20 Apr 12
20 Api	1 12	1300	80		Augei	WGHT	3 1/4	140#			DRILLER:	Erick D.
						FALL		30"			INSPECTOR:	EJS
Depth (ft.)	Casing Blows per	Sample Number	Blows on Sample Spoon	S y m		•						
	Foot		per 6''				NTIFICAT				REMA	RKS
		G 1	9		FILL (Br	cf S, 1 \$, a	mf G, w/br	ick, concret	te)		D 1011	
1		S-1	11								Rec = 12"	
2			13								moist	
2			6		same	FILL (Br	own coars	e to fine SA	ND.			
3		S-2	8					ım to fine (			Rec = 19"	
			7			with brick	k and conc	erete)			moist	
4			5									
5			_							5'0"		
		G 2	3	_	Br o \$, s c	ef S					D 2011	
6		S-3	3			Brown or	ganic SIL	T como			Rec = 20" very moist	
7			4			coarse to		1, some			very moist	
,						course to	ime buna					
8				1						8'0"		
9												
1.0												
10			3		D# of C + 9	t of C						
1.1			_		Br cf S, t S	\$, t Cl G					D = 10"	
11		S-4	4								Rec = 18" wet	
12			4								WCt	
13						Brown co	arse to fin	e SAND,				
							trace coa	rse to fine				
14						<u>Gravel</u>						
15												
13			7		same							
16		S-5	6		Julio						Rec = 20"	
10		D-2	9								wet	
17			8									
18												
10												
19												
20												
20			4		same, t (+	) cf G						
21		S-6	4		<i>y</i> • <b>X</b> •	•					Rec = 2"	
			5								wet	
22			2									

CAR			& ASSOC	CIA	TES TEST BORING LOG	BORING NUMBER B-2
Project		yreville, l		ain	Street, Tuckahoe, NY	SHEET NO.: 2 of 2
Client:	•	Midora/0	Glenmark	Pa	rtners, LLC	JOB NUMBER: 12-14
	Casing	Sample	Blows on		IDENTIFICATION	REMARKS
			•			
23 24					Brown coarse to fine SAND, trace Silt, trace (+) coarse to fine Gravel	
25						
26		S-7	7 6			Rec = 24"
27			8 12		27'0"	wet
28					End of Boring @ 27'0''	
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						
41						
42						
43						
44						
45						
46						
47						

CARI			& ASSOC	CIA	TES		TEST BO	RING LO	G		BORING NUMB	
		yreville, l										B-3
Project			mark, Ma				<u>IY</u>				SHEET NO.:	1 of 2
Client:	g Contra		Glenmark General I			LC			JOB NUMBER: ELEVATION:	12-14 +101.0		
	NDWA'		General 1	3011	ings, mc.		CASING	SAMPLE	CODE	TURE		Topo
DA		TIME	DEPTH	$\mathbf{C}$	ASING	TYPE	HSA	SS	CORE	TOBE	START DATE:	20 Apr 12
20 Apr		1400	8'6"	Cı	Auger	DIA.	3 1/4"	1 3/8"			FINISH DATE:	20 Apr 12
		2.00			114-541	WGHT	<i>V</i> 2, .	140#			DRILLER:	Erick D.
						FALL		30"			INSPECTOR:	EJS
Depth	Casing	Sample	Blows on	S								
(ft.)	Blows	Number	_	y m								
	per		Spoon	***								
	Foot		per 6"	T	CILL (D.		NTIFICAT				REMA	RKS
1		S-1	6 7		FILL (Br			/brick, conc <b>e to fine S</b> A			Rec = 15"	
1		D-1	10					coarse to fir			moist	
2			12					and concret		2'0"	1110101	
			10	I	Br cf S, 15							
3		S-2	7								Rec = 9"	
			7								moist	
4			6									
_				4								
5			0									
6		S-3	8 6		same						Rec = 20"	
		5-3	5			Brown co	arse to fin	e SAND, lit	ttle		moist	
7			6					o fine Grav				
			3	s	same							
8		S-4	4								Rec = 17"	
			5								very moist-wet	
9			5									
10				1								
10			5		same, t\$							
11		S-5	5		σαιτιο, τ φ						Rec = 13"	
			5								wet	
12			7									
13				11								
14				1								
14												
15				1								
			6	s	same							
16		S-6	5								Rec = 16"	
			6								wet	
17			6									
10												
18				$\mid \mid$								
19												
1)				1								
20				1								
			6		same							
21		S-7	7								Rec = 17"	
22			7								wet	
22			7									

CAR			& ASSOC	CIA	TEST BORING LOG	BORING NUMBER
Duoissa		yreville, l		.:	Street, Tuckahoe, NY	B-3 SHEET NO.: 2 of 2
Project Client:	·•	Midora/0	Glenmark	Pa	irtners, LLC	JOB NUMBER: 12-14
	Casing		Blows on		IDENTIFICATION	REMARKS
22						
23 24					Brown coarse to fine SAND, trace (+) Silt, trace medium to fine Gravel	
25						
26		S-8	7 6		Br cf S, t (+) \$, t mf G	Rec = 17" wet
27			7		27'0	
28					End of Boring @ 27'0"	
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						
41						
42				-		
43						
44						
45						
46						
47						

CARI	LIN - SI	MPSON	& ASSOC	CIATES			TEST BO	RING LO	G		BORING NUMB	ER
		yreville, l										B-4
Project			mark, Ma				NY .				SHEET NO.:	1 of 2
Client:	g Contra		Glenmark General I			C					JOB NUMBER: ELEVATION:	12-14 +101.0
	NDWA'		General	orings,	inc.		CASING	SAMPLE	CODE	TURE		+101.0 Topo
DA		TIME	DEPTH	CASIN	G	TYPE	HSA	SS	CORE	TOBE	START DATE:	23 A[r 12
23 Api		1130	9'0''	Aug		DIA.	3 1/4"	1 3/8"			FINISH DATE:	23 Apr 12
						WGHT		140#			DRILLER:	Erick D.
						FALL		30"			INSPECTOR:	EJS
_	_		Blows on	S								
(ft.)	Blows	Number	_	m								
	per Foot		Spoon per 6''			IDE	NTIFICAT	TION			REMA]	DKC
	F 001		8	FILL	(Br cf		of G, w/brid				KEWA	NIXO
1		S-1	5		(	-,-,,-	,	,,			Rec = 16"	
			11								moist	
2			17					e to fine SA			drilled through cor	
3				<b>!</b>			little coars k and coal	se to fine G	ravel,		moved hole 3 time	S
3				1	<u>v</u>	VILII DI ICI	<u>x anu coai</u>	<u>L</u>				
4				1								
				]								
5										5'0"		
		S-2	3		S, t (+	-) \$, t cf C	j				D 15"	
6		5-2	6 14								Rec = 15" moist	
7			13								moist	
8				]								
					_			e SAND, tr				
9					<u>S</u>	Silt, trace	coarse to	fine Grave	<u>I</u>			
10				1								
10			4	same								
11		S-3	6								Rec = 17"	
			6								wet	
12			9									
13				1								
13				1								
14				]								
1.5												
15			5	same								
16		S-4	8								Rec = 18"	
10		5 .	9								wet	
17			9									
18												
19				1								
1)												
20				]								
			3	same								
21		S-5	4								Rec = 19"	
22			6 9								wet	
22			<u> </u>									

CAR		MPSON yreville, 1	& ASSOC	CIA	TEST BORING LOG	BORING NUMBE	R B-4
Project		•		ain	Street, Tuckahoe, NY	SHEET NO.:	2 of 2
Client:		Midora/0	Glenmark	Pa	rtners, LLC	JOB NUMBER:	12-14
	Casing	Sample	Blows on		IDENTIFICATION	REMAR	
22							
23 24		S-6	5 7		Br cf S, t \$, t mf G  Brown coarse to fine SAND, trace	Rec = 17"	
25			9 10		Silt, trace medium to fine Gravel 25'0"	wet	
26			10		End of Boring @ 25'0"		
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37 38							
39							
40							
41							
42							
43							
44							
45							
46							
47							

CARI	LIN - SI	MPSON	& ASSOC	CIA	ATES	TEST BORING LOG					BORING NUMBER		
_		yreville, l										B-5	
Project						uckahoe, N	NY .				SHEET NO.:	1 of 2	
Client:	g Contra		Glenmark General I								JOB NUMBER: ELEVATION:	12-14 +101.0	
	NDWA'		Generali	701	ings, inc.	Ī	CASING	SAMPLE	CORE	TURE		Topo	
DA		TIME	DEPTH	C	CASING	TYPE	HSA	SS	CORE	TOBE	START DATE:	20 Apr 12	
20 Apı		1000	8'0''		Auger	DIA.	3 1/4"	1 3/8"			FINISH DATE:	20 Apr 12	
						WGHT		140#			DRILLER:	Erick D.	
				_		FALL		30"			INSPECTOR:	EJS	
_			Blows on	S									
(ft.)	Blows	Number	Sample Spoon	m									
	per Foot		per 6''			IDE	NTIFICAT	ΓΙΟN			REMA]	RKS	
	1001		14		FILL (Br	cf S, 1 \$, 1 (	(+) cf G, w	pcs. concre					
1		S-1	10					e to fine SA		<u>le</u>	Rec = 19"		
2			10 6				(+) coarse es of concr	to fine Gra	avel,	2'0"	moist		
2			0			with piece	es of concr	ete)		20			
3				1									
				1									
4													
5													
5			10		Br cf S, 1	\$ t cf G							
6		S-2	9		Di Ci 5, 1	φ, τ οι σ					Rec = 20"		
			10								moist		
7			7										
0				.									
8						Brown co	arca ta fin	e SAND, lit	ttla				
9								fine Grave					
						-							
10													
11		6.2	5		same						Rec = 18"		
11		S-3	5								wet		
12			6										
13				.									
14				$\  \ $									
17													
15													
		<i>a :</i>	3		same						D 20"		
16		S-4	4								Rec = 20" wet		
17			5								wei		
- 1													
18				]									
10													
19				$\  \ $									
20				1									
			6		same								
21		S-5	4								Rec = 24"		
22			5 6								wet		
22			0										

CAR			& ASSOC	CIA	TEST BORING LOG	BORING NUMBE	
Project		yreville, l The Glen		ain	Street, Tuckahoe, NY	SHEET NO.:	<b>B-5</b> 2 of 2
Client:					rtners, LLC	JOB NUMBER:	12-14
	Casing	Sample	Blows on		IDENTIFICATION	REMAR	
	1000		<b>561</b> 0				
23 24					Brown coarse to fine SAND, little Silt, trace coarse to fine Gravel		
25							
26		S-6	4 3		Br cf S, 1 \$, t cf G	Rec = 22"	
27			5 7		27'0"	wet	
			,		End of Boring @ 27'0"		
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
41							
42							
43							
44							
45							
46							
47							

CARL			& ASSOC	CIAT	ES	TEST BORING LOG					BORING NUMB	
D		yreville, I		• 0	4 4 700		TW 7				CHEERNO	B-6
Project	<u>:                                    </u>					ickahoe, N	Y				SHEET NO.:	1 of 2
Client: Drilling	Contro		Glenmark General I			LC					JOB NUMBER: ELEVATION:	12-14 +101.5
)	NDWA'		General I	OFIL	igs, mc.		CACING	SAMPLE	CODE	TUDE		
DAT		TIME	DEPTH	CA	SING	TYPE	HSA	SAMPLE	CORE	TUBE	START DATE:	Topo 23 Apr 12
23 Apr		1430	10'0"		Auger	DIA.	3 1/4"	1 3/8"			FINISH DATE:	23 Apr 12
20 11p1	12	1450	100		ruger	WGHT	0 1/4	140#			DRILLER:	Erick D.
						FALL		30"			INSPECTOR:	EJS
Depth	Casing	Sample	Blows on	S								
(ft.)	_	Number		y								
	per		Spoon	m								
	Foot		per 6''			IDE	NTIFICAT	ΓΙΟΝ			REMA	RKS
							<u>Asphalt</u>			0'1.5"		
1				171	III (D.	.CQ 16 . /	(.) .CO	/I 1				
2		S-1	6 7		ILL (Br	CI S, I \$, S (	(+) ci G, w	/brick, conc	rete)		Rec = 12"	
		3-1	9								moist	
3			4			FILL (Br	own coars	e to fine SA	ND		0 ppm	
J			5		me			coarse to fir			Оррии	
4		S-2	4		iiiic			and concret			Rec = 12"	
		2 -	5			<u> </u>	AVAI NIIVAI V		<u>,</u>		moist	
5			6							5'0"	0 ppm	
			4	Bı	r cf S, 1 S	S, 1 (-) cf G						
6		S-3	5								Rec = 15"	
			8					e SAND, lit			moist	
7			6			Silt, little	(-) coarse	to fine Gra	<u>vel</u>		0 ppm	
		G 4	7							01011	To 4.411	
8		S-4	6		. Ф С	7 ( ) ( )				8.0	Rec = 14"	
9			5 4		r \$ s, ci s	S, t (-) f G	I T come	coarse to fi	no		moist	
9			4				ce (-) fine (		<u>ne</u>			
10						Dana, tra	cc (-) IIIIc ·	Graver		10'0"		
10			5	D	k gro\$,	1 cf S				100		
11		S-5	4		_	Dark gray	y organic S	SILT,			Rec = 16"	
			4			little coar	se to fine S	Sand			wet	
12			5							12'0"	0 ppm	
13												
1.4												
14												
15												
13			5	B	r cf S. s	\$, t (-) f G,	w/ lavers	of \$				
16		S-6	5		, 5	., . , , 2 3,					Rec = 17"	
-			7								wet	
17			9								0 ppm	
								e SAND, so	<u>me</u>			
18								ravel, with	•			
10						layers of S	<u>Silt</u>					
19												
20												
20			7	ça	me							
21		S-7	9								Rec = 18"	
		~ ,	8								wet	
22			9							22'0"	0 ppm	

CARI		MPSON yreville, 1	& ASSOC	CIA	TES TEST BORING LOG	BORING NUMBER B-6
Project				ain	Street, Tuckahoe, NY	<b>SHEET NO.:</b> 2 of 2
Client:					rtners, LLC	JOB NUMBER: 12-14
			Blows on		,	
(ft.)	Blows	Number	Sample	y		
, ,	per		Spoon	m		
	Foot		per 6''		IDENTIFICATION	REMARKS
22				-		
23			8	<b>L</b>	Br cf S, t \$, t cf G	
24		S-8	7	ı	Brown coarse to fine SAND, trace	Rec = 17"
		5 0	7	ı	Silt, trace coarse to fine Gravel	wet
25			9		25'0'	0 ppm
					End of Boring @ 25'0"	
26						
27				1		
21				1		
28				1		
29				-		
30						
30				1		
31				1		
32						
33				-		
33				1		
34				1		
				]		
35						
36				-		
30				1		
37				1		
38						
20				-		
39				1		
40				1		
				1		
41						
40						
42				-		
43				1		
				1		
44						
45				-		
46				1		
40				1		
47						

CARI	IN - SI	MPSON	& ASSOC	CIATES	TEST BORING LOG					BORING NUMBER		
	Sa	yreville, l	NJ								B-7	
Project				ain Street, T		ΝY				SHEET NO.:	1 of 2	
Client:				Partners, L						JOB NUMBER:	12-14	
	g Contra		General I	Borings, Inc.						ELEVATION:	+101.5	
	NDWA		r	·			SAMPLE	CORE	TUBE		Торо	
DAT		TIME	DEPTH	CASING	ТҮРЕ	HSA	SS			START DATE:	23 Apr 12	
	d water		10'6''	Auger	DIA. WGHT	3 1/4"	1 3/8"			FINISH DATE:	23 Apr 12	
23 Apı	12	1230	100	Auger	FALL		140 LBS 30"			DRILLER: INSPECTOR:	Erick D. EJS	
Donth	Casing	Sample	Blows on	S	FALL		30			INSTECTOR.	LJS	
(ft.)		Number		y								
(14.)	per	rumber	Spoon	m								
	Foot		per 6''		IDE	NTIFICAT	ΓΙΟΝ			REMAI	RKS	
			3		cf S, 1 \$, 1 (	(+) cf G, w	brick, asph	alt)				
1		S-1	7							Rec = 17"		
2			15							moist		
2			13 11							0 ppm		
3		S-2	10	same	FILL (Br	own coars	e to fine SA	ND		Rec = 18"		
3		5-2	10				oarse to fin			moist		
4			12				and asphalt			0 ppm		
										- 11		
5				]								
			3	same								
6		S-3	3							Rec = 19"		
			2							wet		
7			7							0 oppm		
8		S-4	8	same						Rec = 16"		
0		3-4	7							wet		
9			8						9'0"	0 ppm		
									, 0	o pp		
10				]								
			3	Dk gr o \$,								
11		S-5	3				SILT, some	<u>:</u>		Rec = 17"		
10			3 4	Br cf S, 1	coarse to	fine Sand			11'6"			
12			4	Br ci 5, 1	<b>D</b>					3.5 ppm		
13												
13					Brown co	arse to fin	e SAND,					
14					little Silt		<u>,                                    </u>					
				]								
15												
		9.5	3	same, w/la	ayers of \$							
16		S-6	5							Dec. 17"		
17			7							Rec = 17"		
1 /			/							wet 0 ppm		
18										o ppm		
13				1								
19				]								
				]								
20									20'0"			
		g <b>-</b>	7	Gr cf S, t			G 1 3 7 5			D 46"		
21		S-7	5			rse to fine				Rec = 16"		
22			6		trace Silt,	trace fine	<u>Gravel</u>			wet 0 ppm		
22			U							^ hhiii		

CAR			& ASSOC	CIA	TEST BORING LOG	BORING NUMBE	R B-7
Project		yreville, l		ain	Street, Tuckahoe, NY	SHEET NO.:	2 of 2
Client:					rtners, LLC	JOB NUMBER:	12-14
	Casing	Sample	Blows on		IDENTIFICATION	REMAR	
			<b>562</b> 0				
23 24					Brown coarse to fine SAND, trace Silt, trace coarse to fine Gravel		
25				1			
26		S-8	7 8		Br cf S, t \$, t cf G	Rec = 16"	
27			8 4		27'0"	wet	
			·		End of Boring @ 27'0"		
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
41							
42							
43							
44							
45							
46							
47							

CARI			& ASSOC	CIATES		TEST BO	RING LO		BORING NUMBER		
		yreville, I									B-8
Project					Tuckahoe, N	NY				SHEET NO.:	1 of 2
Client:	g Contra			Partners, l Borings, In						JOB NUMBER: ELEVATION:	12-14 +101.0
_	NDWA'		Generali	Jorings, In	<u> </u>	CASING	SAMPLE	CORE	TURE		Торо
DAT		TIME	DEPTH	CASING	TYPE	HSA	SS	CORE	TOBE	START DATE:	19 Apr 12
19 Apr		0900	6'6''	Auger	_	3 1/4"	1 3/8"			FINISH DATE:	19 Apr 12
					WGHT		140#			DRILLER:	Erick D.
					FALL		30"			INSPECTOR:	EJS
_			Blows on	S							
(ft.)	Blows	Number	-	m							
	per Foot		Spoon per 6''		IDE	NTIFICAT	ΓΙΟΝ			REMAI	RKS
	FUUL		7	FILL (B	r cf S, l (-) \$		1011			TO THE STATE OF TH	
1		S-1	8		FILL (Br	own coars	e to fine SA			Rec = 20"	
			7	D . C.C.		coarse to	fine Grave	<u>l)</u>	1'6"	moist	
2			4	Br cf S,	t \$, t cf G						
3											
4				]							
5			(	1 (	h						
6		S-2	6 5	same, 15	•					Rec = 19"	
		5-2	5		Brown co	arse to fin	e SAND, lit	ttle		moist-wet	
7			5				fine Grave				
8											
9											
9											
10				1							
			6	same, 15	5						
11		S-3	10							Rec = 20"	
12			10 9							wet	
12			9								
13				1							
				]							
14											
15											
15			6	same							
16		S-4	9							Rec = 20"	
			9							wet	
17			9								
10											
18											
19				1							
				]							
20				$oxed{oxed}$							
		C. 7	7	same						D 01"	
21		S-5	9 8							Rec = 21" wet	
22			9							wet	

CAR			& ASSOC	CIA	TEST BORING LOG	BORING NUMBER	B-8
Project		yreville, l		ain	Street, Tuckahoe, NY	SHEET NO.:	2 of 2
Client:					rtners, LLC	JOB NUMBER:	12-14
	Casing	Sample	Blows on		IDENTIFICATION	REMARK	
23 24					Brown coarse to fine SAND, little (-) Silt, trace (-) coarse to fine Gravel		
25							
26		S-6	9 8		Br cf S, l (-) \$, t (-) cf G	Rec = 21"	
27			8 10		27'0"	wet	
28					End of Boring @ 27'0"		
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
41							
42							
43							
44							
45							
46				-			
47				L			

CARI			& ASSOC	CIA	TES	TEST BORING LOG					BORING NUMBER		
		yreville,			C ED	<u> </u>	***				CITED NO	B-9	
Project						uckahoe, N	NY				SHEET NO.:	1 of 2	
Client:	g Contra		Glenmark General I								JOB NUMBER: ELEVATION:	12-14 +106.0	
	NDWA'		General	701	mgs, mc.	Ī	CASING	SAMPLE	CORE	TURE		Торо	
DAT		TIME	DEPTH	C	ASING	TYPE	HSA	SS	CORE	TOBE	START DATE:	17 Apr 12	
17 Apı		0950	13'0"		Auger	DIA.	3 1/4"	1 3/8"			FINISH DATE:	17 Apr 12	
						WGHT		140#			DRILLER:	Erick D.	
						FALL		30"			INSPECTOR:	EJS	
	0	-	Blows on	S									
(ft.)	Blows	Number	_	y m									
	per East		Spoon per 6''			IDE	NTIFICAT	LION			REMAI	DKC	
	Foot		per o			IDE	VIIIICA	11011			KEMA	XXIS	
1													
			8		FILL (Br	gr cf G a (-	+), cf S, 1 (-	) \$, w/ash, v	wood, as	phalt)			
2		S-1	7								Rec = 12"		
3			6 5			EILI (D.	OWN GNOW	coarse to fi	no		moist		
3			3		same			coarse to fi					
4		S-2	3		same			with ash, w			Rec = 10"		
			2			asphalt)		·	<u></u>		moist		
5			3										
		~ •	3		same								
6		S-3	4								No recovery		
7			3										
<b>'</b>			3										
8		S-4	4							8'0"	Rec - 12"		
			5		Br cf S, 13	\$					moist		
9			4			-		GAND III					
10						Brown co	arse to fin	e SAND, lit	ttle Silt	10'0"			
10			1		Dk gr o \$,	t (-) f S				100			
11		S-5	2		Dir gr σ φ,		y organic	SILT,		11'0"	Rec = 17"		
•			4			trace (-) f	ine Sand				very moist		
12			6		Gr \$, a (+)					_			
12						Gray SIL	T, and $(+)$	coarse to f	ine Sanc				
13				╽┝						13'0"			
14													
•													
15				Ш									
1.6		S-6	5 7		Br cf S, t S	\$, t cf G					Rec = 20"		
16		5-0	6								$Rec = 20^{\circ}$ wet		
17			6								VV CL		
						Brown co	arse to fin	e SAND, tr	ace				
18								fine Grave					
10				$ \  $									
19													
20													
20			9		same								
21		S-7	5								Rec = 19"		
			6								wet		
22			6										

CAR		MPSON yreville, l	& ASSOC	CIA	TEST BORING LOG	BORING NUMBE	R B-9
Project				ain	Street, Tuckahoe, NY	SHEET NO.:	2 of 2
Client:					artners, LLC	JOB NUMBER:	12-14
	Casing	Sample	Blows on		IDENTIFICATION	REMAR	
			per o				
23 24					Brown coarse to fine SAND, trace Silt		
25		S-8	6 9		Br cf S, t\$	Rec = 19"	
26		<b>5-0</b>	7		26'0"	wet	
27			,		End of Boring @ 26'0''		
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
41							
42							
43							
44							
45							
46							
47							

CARI			& ASSOC	CIA'	TES	TEST BORING LOG					BORING NUMBER		
D : .		yreville, I		• (	N		TW 7				CHEER NO	B-10	
Project	:					uckahoe, N	\Y				SHEET NO.:	1 of 3	
Client:	g Contra		Glenmark General I			LC					JOB NUMBER: ELEVATION:	12-14 +103.0	
	NDWA'		General 1	<b>5011</b>	ngs, mc.		CASING	SAMPLE	COPE	TUDE		Topo	
DA		TIME	DEPTH	C	ASING	TYPE	HSA	SAMFLE	COKE	TUBE	START DATE:	17 Apr 12	
17 Api		1600	13'0"	CF	Auger	DIA.	3 1/4"	1 3/8"			FINISH DATE:	17 Apr 12	
17 11p2		1000	10 0		riuger	WGHT	0 1/ 1	140#			DRILLER:	Erick D.	
						FALL		30''			INSPECTOR:	EJS	
Depth	Casing	Sample	Blows on	S									
( <b>ft.</b> )	Blows	Number	Sample	у									
	per		Spoon	m									
	Foot		per 6''			IDE	NTIFICAT	ΓΙΟΝ			REMAI	RKS	
1			0	<b>.</b>	7H L /D#	of C 1() C	a(I) af C	rri/hani ala	om omoto)				
2		S-1	8 7		ILL (Br	CI 5, I (-) 5	, s (+) ci G	, w/brick , c	oncrete)		Rec = 11"		
2		3-1	17								moist		
3			13			FILL (Br	own coars	e to fine SA	ND.		moist		
			11		ame			+) coarse to					
4		S-2	10		unic			and concret			Rec = 15"		
		5 -	13			0141111	AVAI NIIVAI V		<u>,</u>		moist		
5			7										
			5	s	ame								
6		S-3	3							6'0"	Rec = 19"		
			1		Br \$ a, cf	S, t (-) f G,	t roots				moist		
7			2										
			2		ame								
8		S-4	1					oarse to fin			Rec = 19"		
			2				ce (-) fine (	Gravel, tra	<u>ce</u>		moist		
9			3			<u>roots</u>							
10										10'0"			
10			2	T	Ok or o \$	t (+) cf S				100			
11		S-5	2		-	Dark gray	v organic S	SILT.			Rec = 22"		
			2				coarse to f				moist		
12			2							12'0"			
13													
14													
15													
15			0		Gr cf S, 1	\$ tmfG							
16		S-6	9		JI CI 3, 1 3	φ, t IIII <b>U</b>					Rec = 21"		
10		5-0	8								wet		
17			7			Grav coar	rse to fine	SAND, littl	le		Wet		
								o fine Grav					
18													
19													
20			-										
21		C =	6		ame						Dan 20"		
21		S-7	5 7								Rec = 20"		
22			5								wet		
22			5										

CARI			& ASSOC	CIA	ATES TEST BORING LOG	BORING NUMBER B-10
Project		yreville, l The Glen		ain	Street, Tuckahoe, NY	SHEET NO.: 2 of 3
Client:					artners, LLC	JOB NUMBER: 12-14
Depth	Casing	Sample	Blows on			
(ft.)		Number	_	y m		
	per		Spoon		IDENTIFICATION	REMARKS
	Foot		per 6''		IDENTIFICATION	KEMAKKS
23						
24						
24						
25						
26		S-8	3		Br cf S, t \$, 1 cf G	Rec = 18"
26		5-8	4			wet
27			5			
20					Duarra coorea to Can Can Davos	
28					Brown coarse to fine SAND, trace Silt, little coarse to fine Gravel	
29						
20						
30			4		same	
31		S-9	4			Rec = 19"
22			5			wet
32			5			
33						
34						
34						
35						
36		S-10	5		same	Rec = 20"
50		5-10	7			wet
37			9			
38						
30						
39						
40				1		
70				1		
41				-		
42				1		
				1		
43						
44				1		
				1		
45			7		sama	
46		S-11	8		same	Rec = 18"
			9			wet
47			10			

			& ASSO	C.	TEST BORING LOG		BORING NUMBE	
Project		yreville, N		oin '	Street, Tuckahoe, NY		SHEET NO.:	<b>B-10</b> 3 of 3
Client:					rtners, LLC		JOB NUMBER:	12-14
	Casing	Sample	Blows on Sample Spoon per 6"		IDENTIFICATION		REMAR	
40								
48 49				-	Brown coarse to fine SAND, trace			
50					Silt, little coarse to fine Gravel			
51								
52						52'0"		
53								
54					Gray coarse to fine GRAVEL and (+), coarse to fine Sand, trace Silt			
55		C 12	50/C!!			551611	D	
56		S-12	50/6"		End of Boring @ 55'6"	55.6	Rec = 5" wet	
57								
58								
59								
60								
61				-				
62								
63				-				
64		ļ						
65								
66								
67				1				
68								
69 <b>7</b> 0								
70								
71 72								

CARI			& ASSOC	CIA	ATES		TEST BO	RING LO	G		BORING NUMB		
		yreville,		_	a								
Project	Project: The Glenmark, Main Street, Tuckahoe, NY Client: Midora/Glenmark Partners, LLC												
Drilling Contractor: General Borings, Inc.													
	NDWA'		General	701	mgs, mc.		CASING	SAMPI F	CORE	TURE			
DA		TIME	DEPTH	$\mathbf{C}$	CASING	TYPE	HSA	SS	CORE	TOBE			
	16 Apr 12		16'0"		Auger	DIA.	3 1/4"	1 3/8"					
1011 <b>p</b>	16 Apr 12 14		200	7 7 12		WGHT	<i>V</i> 2, .	140#			DRILLER:		
						FALL		30''			INSPECTOR:	EJS	
Depth	Casing	Sample	Blows on	S						•			
(ft.)	Blows	Number	Sample	y									
	per		Spoon	m									
	Foot		per 6''			IDE	NTIFICAT	ΓΙΟΝ			REMA	RKS	
1							<u>Asphalt</u>			1.5"			
1			7		EIII (Dr.	cf S, 1 \$, t f	: C)						
2		S-1	4		FILL (DI			e to fine SA	ND		$R_{ec} = 17"$		
2		5-1	5				trace fine		<u> </u>	3'0"	### B-11  #### Tho:: 1 of 2  OB NUMBER: 12-14  #### CLEVATION: +110.0  DATUM: Topo  TART DATE: 16 Apr 12  PRILLER: Erick D.  NSPECTOR: EJS  #### April		
3			5		Br cf S, t S		trace fine	Gravery		30	moist		
			5		,	,, - ( ) - 3					Rec = 18"		
4		S-2	6								moist		
			5										
5			7										
			11		Br cf S, t S	\$							
6		S-3	13								Rec = 18"		
_			16			_		~			moist		
7			17					e SAND, tr	<u>race</u>				
0		G 4	6		same	Silt, trace	(-) fine G	<u>ravel</u>			D 17"		
8		S-4	7										
9			10								moist		
9			10										
10													
10			8		same								
11		S-5	7								Rec = 18"		
			10								moist		
12			8										
13													
14				l l									
14													
15													
			5		same								
16		S-6	8								Rec = 20"		
			5								wet		
17			7										
18				l l									
10													
19													
20													
20			8		same, t (-)	mf G							
21		S-7	10		- (-)	0					Rec = 24"		
			10								wet		
22			15										

CARI			& ASSOC	CIA	TES TEST BORING LOG	BORING NUMBER		
Project		yreville, l		in	Street, Tuckahoe, NY	<b>B-11 SHEET NO.:</b> 2 of 2		
Client:		Midora/(	Glenmark	Pa	rtners, LLC	JOB NUMBER: 12-14		
			Blows on					
(ft.)		Number	_	y m				
	per Foot		Spoon per 6''		IDENTIFICATION	REMARKS		
	root		per o		IDEXTIFICATION	KLIVII KKKO		
23								
24								
25			5					
26		S-8	4		Br cf S, t \$, t (-) f G	Rec = 20"		
			5			wet		
27			5					
28					Brown coarse to fine SAND,			
20					trace Silt, trace (-) fine Gravel			
29								
30								
21			4		same	D 2011		
31		S-9	5			Rec = 22" wet		
32			5					
22								
33								
34								
35								
33			6		same			
36		S-10	9			Rec = 20"		
37			10 12		37'0"	wet		
37			12		End of Boring @ 37'0"			
38								
39								
40								
41								
42								
43								
4.4								
44								
45								
46								
40								
47								

CARI	LIN - SII	MPSON (	& ASSOC	CIA	TES		TEST BO	RING LO	G		BORING NUMBI	E <b>R</b>
		yreville, l										B-12
Project						ckahoe, NY					SHEET NO.:	1 of 2
Client:	g Contra		Glenmark General I			LC					JOB NUMBER: ELEVATION:	12-14 +111.0
	NDWA'		General I	OIT	ings, inc.		CASING	SAMPLE	CODE	TURE		Topo
DA		TIME	DEPTH	C	ASING	TYPE	HSA	SAMILE	CORE	TOBE	START DATE:	18 Apr 12
	18 Apr 12		16'0"	Auger		DIA.	3 1/4"	1 3/8"			FINISH DATE:	18 Apr 12
		1430				WGHT		140#			DRILLER:	Erick D.
						FALL		30"			INSPECTOR:	EJS
	_		Blows on	S								
(ft.)	Blows	Number	-	y m								
	per		Spoon			IDE	NTTELC AT	PION			REMAI	DIZC
	Foot		<b>per 6''</b> 16	Ī	FILL (Gr	cf G a (-), o	NTIFICAT	IION			KEMAI	KKS
1		S-1	20					to fine GRA	AVEL		Rec = 10"	
			50/1"		and (-), coarse to fine Sand, trace Silt)						moist	
2										2'0"		
2												
3			5	L,	Br cf S, 1 S	\$ + ( ) <b>f</b> G						
4		S-2	4		DI CI 3, 1 4	ο, τ ( <del>-</del> ) Ι Ο					Rec = 17"	
		5 -	4								moist	
5			3									
			5		same							
6		S-3	3								Rec = 18"	
7			3								moist	
,						Brown co	arse to fin	e Sand, tra	ce			
8							(-) fine G		<u></u>			
9												
10												
10			6	Ī	Br cf S, 1 \$	S t f G						
11		S-4	6		51 61 5, 1 9	,, , , ,					Rec = 21"	
			7								moist	
12			8									
12												
13												
14												
15				Ш								
1.0			5		Br cf S, t S	S, t (-) f G					D	
16		S-5	6								Rec = 20" very moist-wet	
17			7								very moist-wet	
1,			<u> </u>									
18												
19												
20												
20			6	S	same							
21		S-6	7								Rec = 22"	
			8								wet	
22			7									

CAR			& ASSOC	CIA	TEST BORING LOG	BORING NUMBER	
Project		yreville, I		in	Street, Tuckahoe, NY	SHEET NO.:	<b>B-12</b> 2 of 2
Client:					artners, LLC	JOB NUMBER:	12-14
	Casing	Sample	Blows on Sample Spoon per 6"		IDENTIFICATION	REMARI	
22							
23 24					Brown coarse to fine SAND, trace Silt, trace medium to fine Gravel		
25							
26		S-7	5 7		Br cf S, t \$, t mf G	Rec = 21"	
27			8		27'0"	wet	
28					End of Boring @ 27'0"		
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
41							
42							
43							
44							
45							
46							
47							

CARI			& ASSOC	CIA	ATES		TEST BO	RING LO	G		BORING NUMB		
D :		yreville, l			Ct t T		T% 7				CHEER NO	B-13	
Project						uckahoe, N	NY				SHEET NO.:	1 of 2	
Client:	g Contra	Mildora/C	Glenmark General I			LC					JOB NUMBER: ELEVATION:	12-14 +113.0	
	NDWA'		General I	901	ings, mc.		CASING	SAMPLE	CODE	TUDE		Topo	
DA		TIME	DEPTH		CASING	TYPE	HSA	SANIFLE	COKE	TUBE	START DATE:	20 Apr 12	
16 Apr		1030	17'0"		Auger	DIA.	3 1/4"	1 3/8"			FINISH DATE:	20 Apr 12	
10 11 p	1=	1050	17.0		riuger	WGHT	0 1/4	140#			DRILLER:	Erick D.	
						FALL		30"			INSPECTOR:	EJS	
Depth (ft.)		Sample Number	Spoon	S y m									
	Foot		per 6''			IDE	NTIFICAT	ΓΙΟΝ		4.50	REMA	RKS	
1							<u>Asphalt</u>			1.5"			
1			2		Br cf S, 15	\$ 1fG							
2		S-1	4		Di Ci 5, 1	<b>ρ</b> , 11 <b>O</b>					Rec = 19"		
			3								moist		
3			4										
			5		same								
4		S-2	6								Rec = 22"		
5			6 8								moist		
3			6		same								
6		S-3	6		same	Brown co	arse to fin	e SAND, lit	ttle		Rec = 19"		
			5	Brown coarse to fine SAND, little Silt, little fine Gravel moist									
7			5			<del></del>							
			6		same								
8		S-4	5								Rec = 21"		
9			5 4								moist		
9			4										
10													
			5		same								
11		S-5	9								Rec = 22"		
			3								moist		
12			6										
12													
13													
14													
15													
			4		Br cf S, s	(-) \$, s (-) ¢	cf G						
16		S-6	5								Rec = 21"		
17			5								moist-wet		
17			6										
18													
19													
20			2			(1) C C							
21		S-7	3		same, w/t	(+) mf G					Rec = 24"		
21		G-1	4								wet		
22			4										

CARI		MPSON yreville, l	& ASSOC	CIA	ATES		TEST B	ORING LO	)G		BORING NUMBE	ER B-13
Project				ain	Street, Tu	ickahoe. I	NY				SHEET NO.:	2 of 2
Client:	·•	Midora/0	Glenmark	Pa	artners, LI	C.C	. , ,				JOB NUMBER:	12-14
			Blows on									
(ft.)	Blows	Number	Sample	y								
( )	per		Spoon	m								
	Foot		per 6''			IDE	NTIFICA	TION			REMAR	kKS
			4		Br cf S, 1 \$	5, 1 f G						
23		S-8	4			Brown co	oarse to fi	ne SAND, l	<u>ittle</u>		Rec = 17"	
2.4			3			Silt, little	e fine Gra	<u>vel</u>			wet	
24			4			End of D	oring @ 2	21011		23'0"		
25				ł		Ella of D	oring @ 2	23 0				
23				1								
26				1								
27												
20				-								
28				ł								
29				1								
				1								
30												
31				-								
32				ł								
32				1								
33				1								
				1								
34												
2.5				-								
35				ł								
36				1								
50				1								
37												
38												
39												
39				1								
40				1								
				1								
41												
42												
43												
43				1								
44				1								
				1								
45												
46				-								
47				1								
4/				_								

CARI			& ASSOC	CIA	TES		TEST BO	RING LO	G		BORING NUMBI	
		yreville, I										B-14
Project						ickahoe, N	VY				SHEET NO.:	1 of 2
Client:			Glenmark			LC					JOB NUMBER:	12-14
	g Contra		General E	sor	ings, Inc.		CACING	CAMDIE	CODE	TUDE	ELEVATION:	+111.0
DAT	NDWA'	TIME	DEPTH	<u></u>	ASING	TYPE	HSA	SAMPLE SS	CORE	TUBE	START DATE:	Topo 16 Apr 12
16 Api		1000	17'0"	<u>C</u> .	Auger	DIA.	3 1/4"	1 3/8"			FINISH DATE:	16 Apr 12
10 Api	12	1000	17 0		Augei	WGHT	3 1/4	140#			DRILLER:	Erick D.
						FALL		30"			INSPECTOR:	EJS
Depth	Casing	Sample	Blows on	S						ı		
(ft.)		Number	Sample	y								
	per		Spoon	m								
	Foot		per 6''			IDE	NTIFICAT	ΓΙΟΝ			REMAI	RKS
		G 4	2		D 60 . (	h . ( ) C.C	<u>Asphalt</u>			0'1.5"	D 17"	
1		S-1	2		Br cf S, t S	\$, t (-) f G					Rec = 17"	
2			3								moist 0 ppm	
۷			5	_	same						о ррш	
3		S-2	4		sume	Brown co	arse to fin	e SAND, tr	ace		Rec = 16"	
		~ _	5				(-) fine G				moist	
4			5								0 ppm	
			5		same							
5		S-3	6								Rec = 15"	
			7								moist	
6			7	8							0 ppm	
7		S-4	4		same						Dan 16"	
7		5-4	3								Rec = 16" moist	
8			3								0 ppm	
											о ррш	
9				1						9'0"		
10												
			3		Br \$ a (-),	cf S, t (-) f	G					
11		S-5	3								Rec = 16"	
12			3 4								very moist-wet 0 ppm	
12			4	П							о ррш	
13				1		Brown SI	LT and (-	) coarse to f	fine			
							ace (-) fine					
14												
15			2									
16		S-6	3		same						Rec = 19"	
10		5-0	3								wet	
17			3								WCt	
- 7												
18				1								
19												
2.0												
20			4		como							
21		S-7	3		same						Rec = 17"	
21		5-1	4								wet	
22			4									

CAR		MPSON yreville, l	& ASSOC	CIA	TEST BORING LOG	BORING NUMBER B-14
Project				ain	Street, Tuckahoe, NY	<b>SHEET NO.:</b> 2 of 2
Client:		Midora/0	Glenmark	Pa	ertners, LLC	<b>JOB NUMBER:</b> 12-14
Depth (ft.)	Casing Blows per Foot		Blows on		IDENTIFICATION	REMARKS
			рего			-
23 24					Brown SILT and (-) coarse to fine SAND, trace (-) fine Gravel 23'6	<u>"</u>
25 26		S-8	4 4		Br cf s, l (+) \$, t (-) f G  Brown coarse to fine SAND, little (+)	Rec = 22"
			5		Silt, trace (-) fine Gravel	wet
27			7		27'0 End of Boring @ 27'0"	"
28						
29				1		
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						
41				1		
42						
43						
44						
45						
46						
47						

CARI			& ASSOC	CIA	ATES		TEST BO	RING LO	G		BORING NUMB	
		yreville,		_	Ct. t PD		TT 7					B-15
Project			mark, Ma				NY				SHEET NO.:	1 of 2
Client:	g Contra		Glenmark General F		rings, Inc.	LC					JOB NUMBER: ELEVATION:	12-14 +106.5
	NDWA'		General	נטכ	ings, mc.		CASING	SAMPLE	CORE	TURE		Topo
DA		TIME	DEPTH	(	CASING	TYPE	HSA	SS	CORE	TOBE	START DATE:	16 Apr 12
16 Apr		1600	11'0"	Ť	Auger	DIA.	3 1/4"	1 3/8"			FINISH DATE:	16 Apr 12
					U	WGHT		140#			DRILLER:	Erick D.
						FALL		30''			INSPECTOR:	EJS
_			Blows on	S								
(ft.)		Number	_	y m								
	per		Spoon			IDE	NTTELC AT	PION .			DEMA	DIZC
	Foot		per 6''			IDE	NTIFICAT	IION			REMA	KKS
1												
			2		FILL (Br	cf S, 1 \$, s	cf G, w/asp	ohalt)				
2		S-1	3								Rec = 5"	
2			3					e to fine SA			moist	
3			4			with asph		se to fine G	<del>Fravel,</del>		0 ppm	
4		S-2	5 4		same	with aspin	<u>iait)</u>				Rec = 14"	
_		D- <b>2</b>	4								moist	
5			5								0 ppm	
			4		same						**	
6		S-3	3								Rec = 14"	
_			3		D 60	( ) <b>(</b>				6'6"	moist	
7			3		Br cf S, t (	(+) \$					0 ppm	
8		S-4	2								Rec = 17"	
			2								moist	
9			5								0 ppm	
10			7									
11		S-5	/ 8		same						Rec = 19"	
11			8			Brown co	arse to fin	e SAND,			moist-wet	
12			9			trace (+)						
13												
14												
1.4												
15												
			8		same							
16		S-6	8								Rec = 20"	
17			7 9								wet	
1 /			9									
18												
19												
20												
20			5		same, 1 (+	2 (						
21		S-7	3		same, I (+	jΨ					Rec = 22"	
21			5								wet	
22			4									

CAR		MPSON yreville, l	& ASSOC	CIA	TES TEST BORING LOG	BORING NUMBER	R B-15
Project				ain	Street, Tuckahoe, NY	SHEET NO.:	2 of 2
Client:						JOB NUMBER:	12-14
	Casing	Sample	Blows on	S y m	IDENTIFICATION	REMARI	
			per o				
23 24					Brown coarse to fine SAND, trace Silt, trace (-) fine Gravel		
25				-			
26		S-8	6 7		Br cf S, t \$, t (-) f G	Rec = 16"	
27			5 7		27'0"	wet	
			/		End of Boring @ 27'0"		
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40				1			
41							
42							
43							
44							
45							
46							
47							

CARI			& ASSOC	CIA	ATES		TEST BO	RING LO	G		BORING NUMB	
-		yreville, l		_	~ · · · · ·							B-16
Project						uckahoe, N	NY				SHEET NO.:	1 of 2
Client:	g Contra		Glenmark General I			LC					JOB NUMBER: ELEVATION:	12-14 +103.5
	NDWA'		General	נטכ	mgs, mc.		CASING	SAMPLE	CORE	THE		Topo
DA		TIME	DEPTH	(	CASING	TYPE	HSA	SS	CORE	TOBE	START DATE:	17 Apr 12
17 Api		1500	9'6''	Ť	Auger	DIA.	3 1/4"	1 3/8"			FINISH DATE:	17 Apr 12
						WGHT		140#			DRILLER:	Erick D.
						FALL		30''			INSPECTOR:	EJS
_	_	_	Blows on	S								
(ft.)		Number	_	y m								
	per		Spoon			IDE		ELONI			DEMA	DIZC
	Foot		per 6''			Broken A	NTIFICAT	TION		0'2"	REMA	RKS
1				1		Droken A	<u> Зрнан</u>			0.2		
			4	H	FILL (Br	cf S, 1 \$, 1 c	cf G)					
2		S-1	3		`		,				Rec = 10"	
			3					se to fine S			moist	
3			3					se to fine G	ravel,			
		G •	4		same	with brick	<u>k)</u>				T. 1011	
4		S-2	4								Rec = 12"	
5			3 5								moist	
3			4		same, w/b	rick						
6		S-3	4		same, w/o	TICK					Rec = 14"	
		~ -	3								moist	
7			2									
			5							7'6"		
8		S-4	2		Dk gr \$, t						Rec = 17"	
0			7		D CC (		y SILT, tr	ace (-) fine	Sand_	8'6"	very moist	
9			/		Br cf S, t S	<b>&gt;</b>						
10				1								
10			7		Br cf S, t S	\$, t (-) f G						
11		S-5	7								Rec = 18"	
			8								wet	
12			8									
13				-		Duoven oo	arca ta fin	o CAND 4m	10.00			
13				-			e (-) fine G	<u>e SAND, tr</u> ravel	ace			
14				1		SHC, trace	/(-) IIIC ()	<u>raver</u>				
				1								
15												
		~ -	3		same						D 55"	
16		S-6	5								Rec = 22"	
17			8								wet	
1 /			0									
18				1								
				1								
19												
				1								
20			2	Ш								
21		S-7	3		same						Rec = 21"	
Δ1		<i>3-1</i>	3								wet = 21	
22			5									

CARI			& ASSOC	CIA	TEST BORING LOG	BORING NUMBER
Project		yreville, l		in	Street, Tuckahoe, NY	B-16 SHEET NO.: 2 of 2
Client:		Midora/(	Glenmark	Pa	artners, LLC	JOB NUMBER: 12-14
			Blows on			
(ft.)		Number	_	y m		
	per Foot		Spoon per 6''		IDENTIFICATION	REMARKS
	root		per o		DENTITION.	<b>KLIVITIKI</b>
23						
24						
25			3		Br cf S, t \$, t (-) f G	
26		S-8	3			Rec = 22"
			5			wet
27			6		Brown coarse to fine SAND, trace	
28					Silt, trace (-) fine Gravel	
20						
29						
30						
21		C 0	5		sane	Dag 20"
31		S-9	5 6			Rec = 20" wet
32			7			running sand
33						
33						
34						
35						
33			10		same	
36		S-10	9			Rec = 21"
37			9 10		37'0"	wet
			10		End of Boring @ 37'0"	
38						
39						
40						
41						
42						
43						
4.4						
44						
45						
46						
40						
47						

CARI			& ASSOC	CIA	ATES		TEST BO	ORING LO	G		BORING NUMB	
D 1		yreville,		_	Ct t T	<u> </u>	15.7				CHEET NO	B-17
Project						uckahoe, N	NY				SHEET NO.:	1 of 2
Client:	g Contra		Glenmark General F		rings, Inc.						JOB NUMBER: ELEVATION:	12-14 +104.5
	NDWA'		General I	,,,,	ings, inc.	I	CASING	SAMPLE	CORE	TURE		Торо
DA		TIME	DEPTH	C	CASING	TYPE	HSA	SS	CORE	TOBE	START DATE:	18 Apr 12
18 Apı		1400	10'0''		Auger	DIA.	3 1/4"	1 3/8"			FINISH DATE:	18 Apr 12
						WGHT		140#			DRILLER:	Erick D.
						FALL		30''			INSPECTOR:	EJS
_	_	_	Blows on	S								
(ft.)		Number	_	m								
	per Foot		Spoon per 6''			IDE	NTIFICAT	ΓΙΟΝ			REMA]	RKS
	1001		per 0				Asphalt			1'5"		
1												
2		G 1	2		FILL (Br	cf S, 1 \$, 1 c	cf G, t conc	erete)			N.	
2		S-1	3								No recovery	
3			2			FILL (Br	own coars	e to fine SA	ND.			
			4		same			se to fine G				
4		S-2	9			trace con			<u> </u>		Rec = 14"	
			11								very moist	
5			9							5'0"		
6		S-3	8		Br cf S, t S	¢						
6		3-3	9		ы сі з, і	Ф					Rec = 16"	
7			9								moist	
			9									
8		S-4	10		same						Rec = 18"	
0			10 8			Duarem aa	auga ta fin	o CAND 4	C:14		moist	
9						Drown co	arse to IIII	e SAND, tr	ace Sit			
10												
			3									
11		S-5	3		same 1, \$	w/ layers \$					Rec = 18"	
12			3								wet	
12												
13												
14												
15												
1.5			3									
16		S-6	2		same						Rec = 20"	
			3								wet	
17			3									
18												
10												
19												
										• • •		
20			30							20'0"		
21		S-7	58		Br cf G a	cfS.t\$					Rec = 19"	
21			20		21 01 0 a		arse to fin	e GRAVEI	L and,		wet	
22			20				fine Sand,					

CAR		MPSON yreville, l	& ASSOC	CIA	TEST BORING LOG	BORING NUMBER	R B-17
Project				ain	Street, Tuckahoe, NY	SHEET NO.:	2 of 2
Client:					ertners, LLC	JOB NUMBER:	12-14
Depth (ft.)	Casing	Sample	Blows on		IDENTIFICATION	REMAR	KS
			•				
23 24					Brown coarse to fine GRAVEL and, coarse to fine Sand, trace Silt, weathered schist		
25				l	weathered schist		
26		S-8	15 18 22		Br cf G a, cf S, t \$, weathered schist	Rec = 18" wet	
27			45			Hard drilling 20'0"-2	
28					27'6 End of Boring @ 27'6''	Auger refusal @ 27'	5"
29					End of Boring C 27 C		
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
41							
42							
43							
44							
45							
46							
47							

CARI	LIN - SI	MPSON	& ASSOC	CIA	ATES		TEST BO	RING LO	G		BORING NUMB	ER
		yreville, I		_								B-18
Project					Street, Tu		ΙΥ				SHEET NO.:	1 of 2
Client:	g Contra		Glenmark General I		artners, Ll	LC					JOB NUMBER: ELEVATION:	12-14 +108.0
	NDWA'		General	0	rings, mc.		CASING	SAMPLE	CODE	TUDE		Topo
DA		TIME	DEPTH	(	CASING	TYPE	HSA	SAMIFLE	COKE	TUBE	START DATE:	17 Apr 12
17 Apr		1500	14'0"		Auger	DIA.	3 1/4"	1 3/8"			FINISH DATE:	17 Apr 12
17 1101	12	1200	140		riuger	WGHT	0 1/4	140#			DRILLER:	Erick D.
						FALL		30"			INSPECTOR:	EJS
Depth	Casing	Sample	Blows on	S								
(ft.)	Blows	Number	_	y m								
	per		Spoon	111								
	Foot		per 6''				NTIFICAT				REMAI	RKS
1				ł		Asp	halt/Conc	<u>rete</u>		1'2"	2" Asphalt 12" Concrete	
1										1 2	12 Concrete	
2												
			3		FILL (Br	cf S, s (+) S	s, t (-) cf G	)				
3		S-1	3								Rec = 15"	
			6								moist	
4			7					e to fine SA		<u>ne</u>		
5				ł		(+) Silt, (-	) course to	fine Grav	<u>el)</u>			
5			8		same							
6		S-2	9		Same					6'0"	Rec = 18"	
		5 <b>-</b>	11		Br cf S, t S	\$				0.0	moist	
7			11		, .	'						
			8		same							
8		S-3	6								Rec = 18"	
			7								moist	
9			8									
10						Brown co	orco to fin	o SAND				
10			3		same	trace Silt	<u> </u>	e sand,				
11		S-4	4		541110	<u> </u>					Rec = 22"	
			4								moist	
12			4									
13				ł								
14				1								
1.4				1								
15				1								
			3		same							
16		S-5	3								Rec = 18"	
			4								wet	
17			6									
18				-								
10												
19				1								
				1								
20												
			4		same, 1 (-)	\$						
21		S-6	5								Rec = 20"	
22			6 8								wet	
22			٥									

CAR			& ASSOC	CIA	ATES TEST BORING LOG	BORING NUMBER	2.40
Project		yreville, I		in	Street, Tuckahoe, NY		<b>3-18</b> of 2
Client:					artners, LLC		2-14
Depth (ft.)	Casing	Sample	Blows on Sample Spoon per 6"		IDENTIFICATION	REMARKS	
22					Duarry accuse to fine CAND		
23					Brown coarse to fine SAND, little Silt, trace (-) fine Gravel		
24							
25			7		Br cf S, 1 \$, t (-) f G		
26		S-7	7 9			Rec = 20" wet	
27			9		27'0"  End of Boring @ 27'0"		
28							
29							
30							
31							
32							
33 34							
35							
36							
37							
38							
39							
40							
41							
42							
43							
44							
45							
46							
47							

CARI			& ASSOC	CIA	ATES		TEST BO	RING LO	G		BORING NUMB	
Project		yreville, l		in	Street T	L uckahoe, N	J <b>W</b>				SHEET NO.:	<b>B-19</b> 1 of 2
Project Client:			ımark, Ma Glenmark				N Y				JOB NUMBER:	12-14
	g Contra		General I								ELEVATION:	+123.0
	NDWA'		001101411	-0-			CASING	SAMPLE	CORE	TUBE		Торо
DA		TIME	DEPTH	$\mathbf{c}$	ASING	TYPE	HSA	SS	CORE	TOBE	START DATE:	24 Apr 12
24 Apr			ter encou			DIA.	3 1/4"	1 3/8"			FINISH DATE:	24 Apr 12
						WGHT		140#			DRILLER:	Erick D.
						FALL		30''			INSPECTOR:	EJS
Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	y m	FILL (Br		NTIFICAT	ΓΙΟΝ /cobbles, bo	ulders h	ricks	REMAI	RKS
1		S-1	6			ind asphalt)		cobbies, bo	dideis, o	ricks,	Rec = 18"	
			3			_					very moist	
2			5									
2				.								
3				1								
4				1		FILL (Br	own coars	e to fine SA	ND			
-				1				coarse to fi				
5								s, boulders		_		
			3	П	same	concrete a	and aspha	<u>lt)</u>				
6		S-2	4								Rec = 14"	
7			4								very moist	
7			5									
8		S-3	7		same							
O		D-3	5								Rec = 16"	
9			5								very moist	
											•	
10			_	Ш				~.				
			5		FILL (Br	cf S, a (-) \$	S, s (-) mf (	3)				
11		S-4	5								Rec = 19"	
12			7								moist	
12			,									
13				1								
14				1						14'0"		
15				.								
13			10		Weathere	d Schist					Rec = 14"	
16		S-5	16		,, camero	. Semst					moist	
10		5-5	22								moist	
17			27				Weathere	ed Schist				
18				.								
19				1								
19				1								
20				1								
			35		same							
21		S-6	60								Rec = 8"	
22				1							moist	
22												

CARI		MPSON yreville, l	& ASSOC	CIA	TEST BORING LOG	BORING NUMBER B-19
Project				ain	Street, Tuckahoe, NY	<b>SHEET NO.:</b> 2 of 2
Client:		Midora/0	Glenmark	Pa		<b>JOB NUMBER:</b> 12-14
Depth			Blows on	S		
(ft.)	Blows	Number	Sample	y m		
	per		Spoon	'''		
	Foot		per 6''		IDENTIFICATION	REMARKS
23						
24						
25					Weathered Schist	
26		S-7	25 60/4"			Rec = 6" moist
27						
28					28'0"	Auger refusal @ 28'0"
29					End of Boring @ 28'0"	
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						
41						
42						
43						
44						
45						
46						
47						

CARI	CARLIN - SIMPSON & ASSOCIATES TEST BORING LO										BORING NUMB	
D .		yreville, l			C4 4 TD	1	78.7				CHEEPENO	B-20
Project Client:			ımark, Ma Glenmark			uckahoe, N	NY				SHEET NO.: JOB NUMBER:	1 of 2 12-14
	g Contra	octor:	General I								ELEVATION:	+118.0
	NDWA'		Generali	701	ings, me.		CASING	SAMPLE	CORE	TURE		Торо
DA		TIME	DEPTH	C	CASING	TYPE	HSA	SS	COLLE	TOBE	START DATE:	24 Apr 12
24 Apı		1230	12'0"		Auger	DIA.	3 1/4"	FINISH DATE:	24 Apr 12			
						WGHT		140#			DRILLER:	Erick D.
						FALL		30"			INSPECTOR:	EJS
_	_		Blows on	S								
(ft.)	Blows	Number	_	y m								
	per Foot		Spoon per 6''			IDE	NTIFICAT	LION			REMA	RKS
	root		per o			IDE	11111011	1011			TELEVIA I	
1												
2						FIII (D	oun corr	o to fine CA	ND			
3								e to fine SA ·) coarse to				
3						Gravel)	one, nece (	-) coarse to	<u> </u>			
4						<u> </u>						
5												
		0.1	8		FILL (Br	cf S, 1 (+) \$	6, l (-) cf G	)			Rec = 5"	
6		S-1	3			Į.						
7			4								moist	
·												
8										8'0"		
9												
10												
10			14		Br cf S, 1	\$, 1 cf G						
11		S-2	12								Rec = 17"	
			13					e SAND, lit			moist-wet	
12			27			Silt, little	coarse to	fine Gravel				
13												
13												
14										14' 0"		
15			25		ъ .	1011	/D 66	ф 1 cc				
1.0		0.3	25		Br weathe	ered Schist	(Br cf S, s	\$, 1 mt G)			D 14"	
16		S-3	28 35								Rec = 14" moist	
17			44			Brown we	eathered S	chist (Brov	vn		moist	
- '								), some Silt				
18							ium to fin					
10												
19												
20												
			50		same							
21		S-4									Rec = 2"	
22											moist	
22												

CAR		MPSON yreville, l	& ASSOC	CIA	TES TEST BORING LOG	BORING NUMBER B-20
Project				ain	Street, Tuckahoe, NY	SHEET NO.: 2 of 2
Client:		Midora/0	Glenmark	Pa	rtners, LLC	JOB NUMBER: 12-14
Depth (ft.)	Casing	Sample	Blows on	S y m	IDENTIFICATION	REMARKS
22						
23 24					Weathered Schist	
25						
26		S-5	50/3"			Rec = 3" moist
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39				1		
40						
40						
				-		
42						
43						
44						
45						
46						
47						

CARI			& ASSOC	CIA	ATES		TEST BO	RING LO		BORING NUMBER		
-		yreville,		_	~·	<u> </u>						B-21
Project						uckahoe, N	NY				SHEET NO.:	1 of 2
Client:	g Contra		Glenmark General I								JOB NUMBER: ELEVATION:	12-14 +108.0
	NDWA'		General	נטכ	mgs, mc.	1	CASING	SAMPLE	CORE	TURE		Topo
DA		TIME	DEPTH	(	CASING	ТҮРЕ	HSA	SS	CORE	TOBE	START DATE:	17 Apr 12
17 Apr		1400	15'0"	Ť	Auger	DIA.	3 1/4"	1 3/8"			FINISH DATE:	17 Apr 12
<b>_</b> F						WGHT	<u> </u>	140#			DRILLER:	Erick D.
						FALL		30''			INSPECTOR:	EJS
_			Blows on	S								
(ft.)		Number	-	y m								
	per Foot		Spoon per 6''			IDE	NTIFICAT	LION			REMAI	RKS
	root		per o			IDE	· · · · · · · · · · · · · · · · · · ·	1011			KENTA	
1												
			2		FILL (Br	cf S, 1 (+) \$	S, t f G)					
2		S-1	1								Rec = 14"	
2			1								moist	
3			2			FILL (R)	rown coor	se to fine S	A ND			
4		S-2	2					ine Gravel			Rec = 20"	
		52	1			intere (1) E	mi, trace i	ine Graver	L		moist	
5			1									
			3									
6		S-3	2								Rec = 17"	
7			2 2							710"	moist	
7					De of C +	(+) \$, t (-) f	F.C.			7'0"		
8		S-4	6		Br ci S, t	(+) \$, t (-) 1	G				Rec = 16"	
O		D- <b>4</b>	8								Moist	
9			9									
10			_									
			6			-		GAND.			D 0411	
11		S-5	7			Brown co		e SAND, tr	<u> ace (-)</u>		Rec = 24" moist	
12			8			illie Grav	<u>C1</u>				moist	
13												
14												
15				1								
13			3		same							
16		S-6	2								Rec = 22"	
10			2								wet	
17			3									
18												
19				1								
19				1								
20												
			2		same							
21		S-7	2								Rec = 21"	
22			3 2								wet	
22			Z									

CAR			& ASSOC	CIA	TES TEST BORING LOG	BORING NUMBER B-21
Project		yreville, l		ain	Street, Tuckahoe, NY	SHEET NO.: 2 of 2
Client:		Midora/0	Glenmark	Pa	rtners, LLC	JOB NUMBER: 12-14
	Casing	Sample	Blows on		IDENTIFICATION	REMARKS
			<b>P</b>			
23						
24					Brown coarse to fine SAND, trace Silt, trace (-) medium to fine Gravel	
25			3		Br cf S, t \$, t (-) mf G	
26		S-8	3			Rec = 23" wet
27			3		27'0"  End of Boring @ 27'0"	
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						
41						
42						
43						
44						
45						
46						
47						

CARI			& ASSO	CIATES		TEST BO	RING LO	G		BORING NUMB	ER B-22
Duoina		yreville, I		ain Street, T	ualrahaa N	.T <b>X</b> 7				SHEET NO.:	1 of 2
Project Client:				Partners, L		NY				JOB NUMBER:	12-14
	g Contra			Borings, Inc.						ELEVATION:	+124.0
	NDWA'			6.7		CASING	SAMPLE	CORE	TUBE		Торо
DA		TIME	DEPTH	CASING	TYPE	HSA	SS			START DATE:	24 Apr 12
24 Apı	r 12	No wa	ter encou	ntered	DIA.	3 1/4"	1 3/8"			FINISH DATE:	24 Apr 12
					WGHT		140#			DRILLER:	Erick D.
					FALL		30"			INSPECTOR:	EJS
			Blows on	S							
(ft.)	Blows	Number	_	m							
	per Foot		Spoon per 6''		IDE	NTIFICAT	TION			REMA	RKS
	root		2	FILL (Br	cf S, s \$, s		1011			TCDIVIT I	
1		S-1	1			,				Rec = 17"	
			3							very moist	
2			5								
3				4							
3				1	FILL (Br	own coars	e to fine SA	ND.			
4				1			rse to fine (				
								<u>.</u>			
5											
		a •	7	same							
6		S-2	6							Rec = 15"	
7			5 4							very moist	
,			5	same							
8		S-3	4							Rec = 16	
			4							very moist	
9			4						9' 0"		
10											
10			8	Br cf S a	(-) \$, 1 (-) r	nf G					
11		S-4	12		( ) ψ, Ι ( ) Ι	iii G				Rec = 18"	
11		5 4	19		Brown co	arse to fin	e SAND, aı	nd (-)		moist	
12			16				n to fine G				
							red to highl	<u>ly</u>			
13					weathere	<u>d schist)</u>					
14											
14				1							
15				same, hig	hly weathe	red schist					
			14		=					Rec = 3"	
16		S-5	16							moist	
			30								
17			37								
18				1							
10				1					18'6"		
19											
				]	Weathere	ed Schist					
20			60/0"		10.11						
21		S-6	60/2"	Weathere	a Schist					Rec = 3"	
21		S-0		1						moist	
22				<u> </u>							

CARI		MPSON yreville, 1	& ASSOC	CIA	TES TEST BORING LOG	BORING NUMBER B-22
Project				ain	Street, Tuckahoe, NY	<b>SHEET NO.:</b> 2 of 2
Client:		Midora/0	Glenmark	Pa	rtners, LLC	<b>JOB NUMBER:</b> 12-14
<b>Depth</b>	Casing	Sample	Blows on	S		
(ft.)	Blows	Number	Sample	y m		
	per		Spoon	111		
	Foot		per 6''		IDENTIFICATION	REMARKS
23						
23					Weathered Schist	
24						
25		S-7	60/4"		Weathered Schist 25'4"	Rec = 4"
26		S-1	00/4			moist
27						
20						
28						
29						
30						
31						
31						
32						
22						
33						
34						
35						
36						
30						
37						
38				ł		
39				1		
				1		
40				1		
41				1		
41				1		
42				1		
				]		
43				1		
44				1		
44				1		
45				1		
				1		
46				l		
47						

CARI			& ASSOC	CIATES			TEST BO	RING LO	G		BORING NUMB	
Duoiss		yreville, l		C4	.4 T-	rakahaa N	.137				SHEET NO.:	B-23
Project Client:			ımark, Ma Glenmark			ickahoe, N	NY				JOB NUMBER:	1 of 2 12-14
	g Contra		General I			LC					ELEVATION:	+111.5
	NDWA'		General	ourings,	IIIC.		CASING	SAMPLE	CORE	TURE		Topo
DA		TIME	DEPTH	CASIN	1G	TYPE	HSA	SS	CORE	TOBE	START DATE:	24 Apr 12
24 Apr			ter encou		,,	DIA.	3 1/4"	1 3/8"			FINISH DATE:	24 Apr 12
						WGHT		140#			DRILLER:	Erick D.
						FALL		30''			INSPECTOR:	EJS
Depth	Casing	Sample	Blows on	S			•	•		•		
(ft.)	Blows	Number	Sample	y								
	per		Spoon	m								
	Foot		per 6''				NTIFICAT				REMA	RKS
1		S-1	2 5			cf S, s (-) \$	s, s (+) cf C	w/ concret	e, bricks,	,	Rec = 8"	
1		5-1	7	bould	iers)						very moist	
2			11								very moist	
2			11			FILL (Br	own coars	e to fine SA	ND.			
3				1				+) coarse to				
				1				te, bricks a		lers)		
4				]								
				]								
5				Ш								
		G •	50/2"	same	, con	crete, boul	ders				D 011	
6		S-2		<del> </del>							Rec = 2"	
7				<del> </del>							Very moist	
,				1								
8				11								
				1								
9				]								
				]								
10												
		~ •	4									
11		S-3	4							1116"	Rec = 10"	
12			6 12	Br of	S 10	(-) \$, t cf G	!			11'6"	moist	
12			12	Di Ci	5,1(	<i>, γ</i> ψ, τ c1 O						
13				1								
				]		Brown co	arse to fin	e SAND, lit	ttle (-)			
14				11		Silt, trace	coarse to	fine Grave	<u>l</u>			
				<b>.</b>						4.510		
15			4	De = 0	°C 16	t l of C				15'0"		
1.0		S-4	<u>4</u> 9		3,13	l cf G					Rec = 16"	
16		5-4	28								moist	
17			45								1110131	
1				f		Brown co	arse to fin	e SAND, lit	<u>ttle</u>			
18				]				fine Gravel				
				11								
19				11								
20				11						20'0"		
20			38	West	here	d Schist				200	Rec = 6"	
21		S-5	60/5"		.110100	a Demot					moist	
				П		Weathere	ed Schist					
22				<u> </u>								

CAR		MPSON yreville, l	& ASSOC	CIA	TEST BORING LOG	BORING NUMBER B-23
Project				ain	Street, Tuckahoe, NY	<b>SHEET NO.:</b> 2 of 2
Client:		Midora/0	Glenmark	Pa	rtners, LLC	JOB NUMBER: 12-14
	Casing	Sample	Blows on	S y m	IDENTIFICATION	REMARKS
23 24					Weathered Schist	
25				1	25'3"	
26		S-6	60/3"		End of Boring @ 25'3"	Rec = 2" moist
27						moist
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						
41						
42						
43						
44						
45						
46						
47						

Project   The Glemmark, Main Street, Tuckahoe, NY	CARI			& ASSOC	CIA	ATES		TEST BO	RING LO		BORING NUMB		
Citent	_					a	<u> </u>						B-24
Drilling Contractor:   General Borings, Inc.   CASING SAMPLE CORE   TUBE   DATUM:   Topo								NY					
CASING   SAMPLE   CORE   TUBE   DATUM:   Topo													
DATE   TIME   DEPTH   CASING   TYPE   USA   SS   START DATE: 18 Apr 12   120   10°0°   Auger   DIA.   31/4°   138°     FINISH DATE: 18 Apr 12   WGIT   140%   DRILLER: Enck D.		-		General	וטכ	ings, mc.	I	CASING	CAMDI E	CODE	TURE		
18 Apr   12				DEPTH	(	SASING	TVPF			COKE	TOBE		_
Casing   Casing   Casing   Casing   Foot													
Depth (I.)   Blows   Number   Peor   Foot   Sample   Peor   Peo													
Blows   Number   Sample   Spoon   Foot   Per 6"   Book   Spoon   Foot   Per 6"   Book   Spoon   Foot   Per 6"   Spoon   Per 6"							FALL		30''			INSPECTOR:	EJS
Per   Spoon   per 6"   IDENTIFICATION   REMARKS	Depth	Casing	Sample	Blows on	S								
Pool	(ft.)	Blows	Number	Sample	y								
Asphalt   Concrete   Grant		_			111								
S-1		Foot		per 6''									RKS
S-1	1						Asp	ohalt/ Con	<u>crete</u>		ח'ח"	3" Asphalt	
S-1	1				-						09	o Concrete	
S-1	2												
S-1	_			5		FILL (Br	cf S, a (-) \$	S, t (+) mf (	<b>3</b> )			Rec = 14"	
A	3		S-1	5		`	, , , ,	, , ,	,			moist	
S-2				3									
S-2   S-2   S-2   Same   S-2   Same   S-3   Same   S-4   S-4   Same   S-5   Same   S-4   S-5   Same   S-6   S-7   Same   S-6   S-7   Same   Same   S-7   Same   Same   S-7   Same   Same   S-7   Same   Same   Same   S-7   Same	4			4									
S-2     3								lt, trace (+	<u>) medium t</u>	<u>o fine</u>			
8	5			_			<u>Gravel)</u>						
Br cf S, t \$ same  Brown coarse to fine SAND, trace Silt  Rec = 18" moist  Rec = 18" moist  Rec = 17" wet  S-4  S-5  8  Same  Same t (+) \$ Rec = 17" wet  Rec = 19' wet  S-5  8  Rec = 19' wet  Rec = 16" wet  Rec = 16" wet			G 3	-		same					CIO!!	D 10"	
S	6		S-2			Dr of C + C	<b>¢</b>				6.0		
8 S-3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	7					br cr s, ts	Þ					moist	
8   S-3   8   8   8   9   7   7   7   10   8   8   8   8   8   8   8   8   8	<b>'</b>					same							
8	8		S-3	ŭ		Sume	Brown co	arse to fin	e SAND, tr	ace Silt		Rec = 18"	
S-4 7 8 Rec = 17" wet  11									Í			moist	
8	9			7									
8													
S-4 7 8 7 wet      12   7	10			0			<b>A</b>						
8 7 7 13 14 15 4 same 8 Rec = 19' wet 17 18 9 18 19						same t (+)	\$						
12	11												
13	12											wet	
14	12			,									
14	13				1								
15													
S-5	14												
S-5													
S-5 6 8 wet  Rec = 19' wet  18	15			4									
8						same						D 401	
17 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	16		S-5										
18	17											wet	
19	1 /			9									
19	18												
20 same  S-6 3 seme  Rec = 16" wet													
21 S-6 $\frac{3}{5}$ Rec = 16" wet	19												
21 S-6 $\frac{3}{5}$ Rec = 16" wet													
21 S-6 3 5	20					same						<b>.</b>	
5	21		0.6										
	21		8-6									wet	
	22			-									

CAR		MPSON yreville, l	& ASSOC	CIA	TES TEST BORING LOG	BORING NUMBER B-24
Project				ain	Street, Tuckahoe, NY	SHEET NO.: 2 of 2
Client:	·•	Midora/0	Glenmark	Pa	rtners, LLC	JOB NUMBER: 12-14
	Casing	Sample	Blows on		IDENTIFICATION	REMARKS
23 24					Brown coarse to fine SAND, trace (+) Silt, trace medium to fine Gravel	
25						
26		S-7	5 6		Br cf S, t (+) \$, t mf G	Rec = 19"
27			8 10		27'0"	wet
28					End of Boring @ 27'0"	
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						
41						
42						
43						
44						
45						
46						
47						

CARI			& ASSOC	CIAT	ES		TEST BO	RING LO		BORING NUMBER		
		yreville, l										B-25
Project			ımark, Ma				NY				SHEET NO.:	1 of 2
Client:			Glenmark			LC					JOB NUMBER:	12-14
	g Contra		General I	3orin	gs, Inc.		a . a====	G + 2 5 2 2 2	~~~~		ELEVATION:	+113.0
	NDWA'		DEDELL	G 4 (	TNIC	(DE/DE		SAMPLE	CORE	TUBE		Topo
DAT		TIME	DEPTH 16'0"		SING	TYPE	HSA	SS 1 3/8"			START DATE:	16 Apr 12
16 Apı	T 12	1450	10 0	F	Auger	DIA. WGHT	3 1/4"	140#			FINISH DATE: DRILLER:	16 Apr 12 Erick D.
						FALL		30"			INSPECTOR:	EICK D.
Donth	Cocina	Sample	Blows on	S		FALL		30			INSTECTOR.	EJS
(ft.)	Blows	Number		y								
(16.)	per	rumber	Spoon	m								
	Foot		per 6''			IDE	NTIFICAT	ΓΙΟN			REMA	RKS
	1000		per o				Asphalt			0'1.5"		
1												
			4		cf S, t S	\$						
2		S-1	4								Rec = 17"	
2			3								moist	
3			4									
4		S-2	4		me						D 10"	
4		5-2	3								Rec = 12" moist	
5			3								moist	
3			5		me							
6		S-3	5			Brown co	arse to fin	e SAND, tr	ace Silt		Rec = 12"	
		5 6	3			<u>DIOWIT CO</u>	<u> </u>	0 5111 (2) (1	ucc Biic		moist	
7			3									
			4	sa	me							
8		S-4	3								Rec = 14"	
			3								moist	
9			5									
10												
10			2									
1.1		G =	3		me						D 10"	
11		S-5	3								Rec = 18" moist	
12			5								illoist	
12												
13												
14												
15			_	Ш								
			3		me							
16		S-6	3								Rec = 22"	
1.5			3								moist wet	
17			3									
18												
10												
19												
17												
20												
			3									
21		S-7	4							21'0"	Rec = 23"	
			22					e Sand, tra	ce Silt,		wet	
22			20			some coar	rse to fine	<u>Gravel</u>				

CARI			& ASSOC	CIA	ATES TEST BORING LOG		BORING NUMBE	R B-25
Project		yreville, l		in	Street, Tuckahoe, NY		SHEET NO.:	2 of 2
Client:	l•	Midora/0	Glenmark	Ps	artners, LLC		JOB NUMBER:	12-14
	Casing	Sample	Blows on	S			CODITONIDAL	
(ft.)	Blows	Number	Sample	y				
, ,	per		Spoon	m				
	Foot		per 6''		IDENTIFICATION		REMAR	KS
2.2								
23			22		Proven cooper to fine SAND, trace			
24		S-8	21		Brown coarse to fine SAND, trace Silt, some coarse to fine Gravel		Rec = 23"	
2.			16		Sing some course to line Graver		wet	
25			19			25'0"		
					End of Boring @ 25'0"			
26								
27				-				
21				1				
28				1				
				1				
29								
20				-				
30				-				
31				1				
0.1				1				
32								
2.2				-				
33				-				
34				ł				
3.				1				
35								
2.5				-				
36				-				
37				ł				
3,				1				
38				1				
39				1				
40				1				
40				1				
41				1				
42								
4.0				1				
43				-				
44				1				
				1				
45				1				
46				1				
47				1				

CARI			& ASSOC	CIA	ATES		TEST BO	RING LO		BORING NUMBER			
_		yreville,		_	~·	<u> </u>						B-26	
Project						uckahoe, N	NY				SHEET NO.:	1 of 2	
Client:	g Contra		Glenmark General I								JOB NUMBER: ELEVATION:	12-14 +112.0	
	NDWA'		General	701	mgs, me.		CASING	SAMPLE	CORE	TURE		Topo	
DA		TIME	DEPTH	C	ASING	TYPE	HSA	SS	CORE	TCDE	START DATE:	18 Apr 12	
18 Apr		1050	18'6"		Auger	DIA.	3 1/4"	1 3/8"			FINISH DATE:	18 Apr 12	
					_	WGHT		140#			DRILLER:	Erick D.	
						FALL		30"			INSPECTOR:	EJS	
Depth (ft.)	Blows per	Sample Number	Blows on Sample Spoon per 6"	S y m		IDE	NTIFICAT	FION			REMARKS		
	Foot		per o	H		IDE	Asphalt	11011		0'2"	KEMM		
1													
			8		Fill (Dk b	r cf S, 1 \$. s	s cf G)						
2		S-1	7								Rec = 19"		
3			6 11								moist 0 ppm		
3			13	_	same						о ррш		
4		S-2	17		Surre						Rec = 16		
			19								moist		
5			16								0 ppm		
		~ •	16		same, con	crete piece	S						
6		S-3	15 13			Fill (Dorl	z hnoven oc	orgo to fin	CAND		Rec = 7 moist		
7			10					oarse to find rse to fine G			0 ppm		
,			10					s and brick			о ррш		
8							•		_		obstruction 7'0"-9'0	)"	
											hard drilling		
9			_										
10		S-4	5		same, w/l	brick					Rec = 12"		
10		5-4	4								moist		
11			4								0 ppm		
11			8								o pp.iii		
12		S-5	10								No recovery		
			11								0 ppm		
13			10							101611			
14				{						13'6"			
14				1		Dark gra	y SILT soi	me, coarse t	to				
15							, trace org						
			3		Dk gr \$ s,	cf S, t/orga	anics						
16		S-6	4							16'0"	Rec = 22"		
1.7			5 7		Br cf S, 13	\$, t f G					moist/very moist		
17			/					0 ppm					
18				1		Brown co	arse to fin	e SAND.					
13				1			trace fine						
19													
20			5		same						Dog = 17"		
21		S-7	4								Rec = 17" wet		
21		5-1	4								,, 00		
22			4										

CARI		MPSON yreville, l	& ASSOC	CIA	TEST BORING LOG	BORING NUMBER B-26
Project				ain	Street, Tuckahoe, NY	SHEET NO.: 2 of 2
Client:	•	Midora/0	Glenmark	Pa	ortners, LLC	JOB NUMBER: 12-14
	Casing	Sample	Blows on		IDENTIFICATION	REMARKS
	1000		per o			
23 24					Brown coarse to fine SAND, trace Silt, trace (-) fine Gravel	
25				1		
26		S-8	6 5			Rec = 19'
27			5		27'0""	wet
28					End of Boring @ 27'0''	
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						
41						
42				}		
43						
44						
45						
46				1		
47						

CARL	IN - SI	MPSON (	& ASSOC	CIA'	TES		TEST BO	RING LO		BORING NUMBER			
		yreville, l									B-27		
Project						uckahoe, N	ΙΥ				SHEET NO.:	1 of 3	
Client:	g Contra		Glenmark General F								JOB NUMBER: ELEVATION:	12-14 +101.0	
,	NDWAT		General I	OIT	ngs, mc.	Į.	CASING	SAMPLE	COPE	TURE		+101.0 Topo	
DAT		TIME	DEPTH	C/	ASING	ТҮРЕ	HSA	SS	CORE	TOBE	START DATE:	23 Apr 12	
23 Apr		1200	7'6''	<u> </u>	Auger	DIA.	3 1/4"	1 3/8"			FINISH DATE:	23 Apr 12	
•					J	WGHT		140#			DRILLER:	Erick D.	
						FALL		30"			INSPECTOR:	EJS	
_	_	_	Blows on	S									
(ft.)		Number	-	y m									
	per Foot		Spoon per 6''			IDE	NTIFICAT	ΓΙΟΝ			REMAI	RKS	
	Foot		10	F	FILL (Gr	br cf S, 1 \$,					Rec = 19"		
1		S-1	9		`	FILL (Gr	ay brown	coarse to fi		<u>D,</u>	moist		
2			6					se to fine G	ravel	21011			
2			6		Prof C 19	with brick \$, t (-) cf G				2'0"	Rec = 16"		
3		S-2	7		51 (1 5, 1	δ, t (-) c1 G					moist		
		5 -	6			Brown co	arse to fin	e SAND, lit	ttle				
4			5					to fine Gra					
5			<i>r</i>		1 0	C					D 10"		
6		S-3	5 4		same, 1 cf	G					Rec = 18" moist		
0		3-3	5								moist		
7			6										
			7								Rec = 20"		
8		S-4	7								moist/wet		
9			6 10										
9			10										
10													
			5	s	same, t\$,	t cf G					Rec = 18"		
11		S-5	5								wet		
10			4										
12			4										
13													
1.0													
14													
1.5													
15			10		same						Rec = 20"		
16		S-6	8		,41110						wet		
10			9										
17			9										
18													
19													
17													
20													
21													
22													

CAR		MPSON yreville, l	& ASSOC	CIA	ATES TEST BORING LOG	BORING NUMBER B-27
Project				ain	Street, Tuckahoe, NY	SHEET NO.: 2 of 3
<b>Client:</b>		Midora/0	Glenmark	Pa	artners, LLC	<b>JOB NUMBER:</b> 12-14
Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	S y m	IDENTIFICATION	REMARKS
	1000		<b>501</b> 0			
23						
24						
25						
23			7		Br cf S, t \$, t (-) f G	Rec = 18"
26		S-7	9			wet
27			8			
20						
28					Brown coarse to fine SAND, trace (-)	
29					Silt, trace (-) fine Gravel	
30						
2.1						
31						
32						
33						
34						
35			0			
36		S-8	7		same	Rec = 19"
			9			wet
37			10			
38						
39				1		
40				1		
41				1		
42				1		
43				-		Hard drilling @ 43'0"
44				1		
45				-		
46				-		
47				1		

CA		SIMPSON yreville, l	V & ASSO	C.	TEST BORING LOG	BORING NUMBE	R B-27
Project				oin	Street, Tuckahoe, NY	SHEET NO.:	3 of 3
Client:					rtners, LLC	JOB NUMBER:	12-14
	Casing	Sample	Blows on		IDENTIFICATION	REMAR	
	1000		per o	Ħ	Brown coarse to fine SAND, trace (-)		
48				] [	Silt, trace (-) fine Gravel 48'0"	Auger refusal @ 48	0"
49					End of Boring @ 48'0"		
50							
51							
52							
53				-			
54							
55							
56							
57							
58							
59							
60							
61							
62							
63							
64							
65							
66							
67							
68							
69				$\left  \ \right $			
70				}			
71				]			
72							

CARI			& ASSOC	CIATES		TEST BO	RING LO		BORING NUMBER		
		yreville,		A 0:	<u> </u>						B-28
Project				ain Street, T		NY				SHEET NO.:	1 of 2
Client:	g Contra			Partners, L Borings, Inc.						JOB NUMBER: ELEVATION:	12-14 +101.0
,	NDWA'		General	borings, inc.	I	CASING	SAMPLE	CORE	TURE		Topo
DAT		TIME	DEPTH	CASING	TYPE	HSA	SS	CORE	TOBE	START DATE:	20 Apr 12
20 Apı		1200	7'6''	Auger	DIA.	3 1/4"	1 3/8"			FINISH DATE:	20 Apr 12
					WGHT		140#			DRILLER:	Erick D.
					FALL		30"			INSPECTOR:	EJS
_	_	_	Blows on	S							
(ft.)	Blows	Number	_	m m							
	per		Spoon		IDE	NTIFICAT	LION			REMAI	DKC
	Foot		<b>per 6''</b> 12	FILL ( Bt				ete)		Rec = 14"	XXS
1		S-1	8		r cf S, 1 \$, s cf G, w/brick & concrete) Fill ( Brown coarse to fine SAND, little					moist	
			9		Silt, some	coarse to	fine Grave				
2			8		brick and	<u>concrete</u>			2'0"		
2				<u> </u>							
3				-							
4				1	Brown co	arca ta fin	e SAND, lit	ttla			
4				1			fine Gravel				
5				1	SHL, HELLE	course to	inc Graver	•			
			3	Br cf S, 1	\$, 1 cf G					Rec =17"	
6		S-2	2						6'0"	moist- very moist	
			2	Brown Pe	at						
7			2			Brown Pe	<u>eat</u>		714		
8				-					7'6"		
0			3	Br cf S, s	\$ t mf S					Rec = 16"	
9		S-3	2		φ, τ ππ δ					wet	
			2								
10			2								
			4	same							
11		S-4	5							Rec = 17"	
12			4		Duorem aa	anga ta fin	o CAND ac			wet	
12			4				e SAND, so to fine Grav				
13				1	one nace	mcuiuiii i	o mic Gra	<u>, (1</u>			
				1							
14				]							
1.5				<b>∐</b>						D 10"	
15		S-5	6 7	same						Rec = 18" wet	
16		S-3	8							WEL	
10			9								
17				Ħ							
				]							
18				] ]							
10				4							
19				<del> </del>							
20				1							
20			3	same						Rec = 21"	
21		S-6	4							wet	
			5								
22			7								

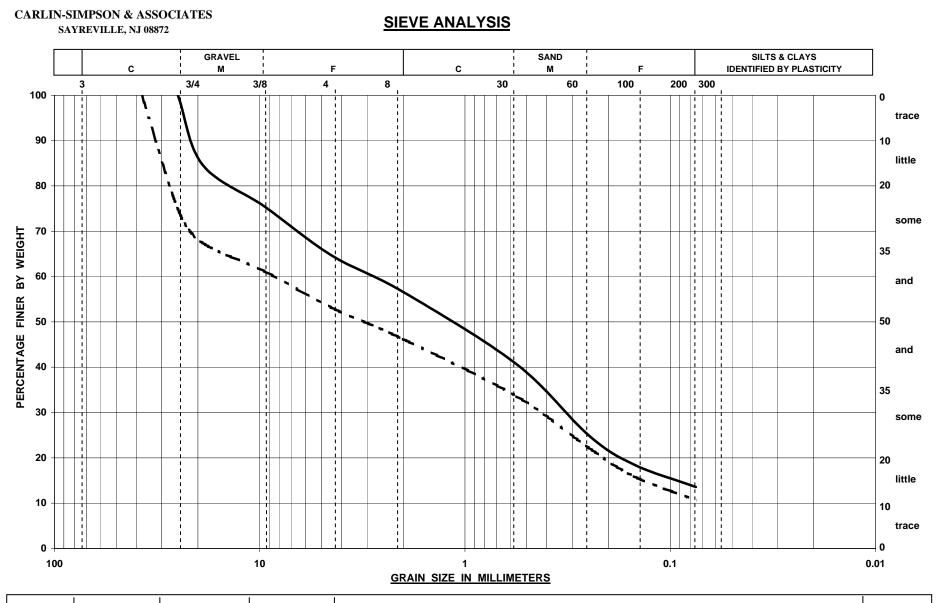
CAR		MPSON yreville, l	& ASSOC	CIA	TES TEST BORING LOG	BORING NUMBER B-28
Project				ain	Street, Tuckahoe, NY	SHEET NO.: 2 of 2
Client:	<u></u>	Midora/0	Glenmark	Pa	rtners, LLC	JOB NUMBER: 12-14
	Casing	Sample	Blows on	S y m	IDENTIFICATION	REMARKS
23 24					Brown coarse to fine SAND, trace Silt	
25						
26		S-7	5 5 4			Rec = 17" wet
27			6		27'0"	
28					End of Boring @ 27'0"	
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						
40						
42						
43						
44						
45						
46						
47						

CARI			& ASSOC	CIA	ATES		TEST BO	RING LO		BORING NUMBER		
D :		yreville,			Ct t TD		T <b>T</b> 7				CHEET NO	B-29
Project Client:			ımark, Ma Glenmark			uckahoe, N	NY				SHEET NO.: JOB NUMBER:	1 of 2 12-14
	g Contra		General I			LC					ELEVATION:	+107.0
	NDWA'		301101411	- 0-	11180, 11100		CASING	SAMPLE	CORE	TUBE		Торо
DA		TIME	DEPTH	C	CASING	TYPE	HSA	SS			START DATE:	24 Apr 12
24 Apı	r 12	1550	11'6"		Auger	DIA.	3 1/4"	1 3/8"			FINISH DATE:	24 Apr 12
						WGHT		140#			DRILLER:	Erick D.
D 41	<i>c</i> ·	G 1	DI	C		FALL		30"			INSPECTOR:	EJS
Depth (ft.)	_	Sample Number	Blows on Sample	y y								
(11.)	per	Nullibei	Spoon	m								
	Foot		per 6''			IDE	NTIFICAT	ΓΙΟN			REMA	RKS
							<u>Asphalt</u>			0'1.5"		
1			O		EHI (D.	-£C 1() ¢	· C ( )				Dan 14"	
2		S-1	8 11		FILL ( Br	cf S, 1 (-) \$	s, t cl G)				Rec = 14" moist	
2		D-1	4								moist	
3			5									
			5		same						Rec = 12"	
4		S-2	4			DILL (D		. e. a.	NID		moist	
5			6 4					<u>e to fine SA</u> oarse to fin		1)		
3			4			nttle (-) S	iii, irace co	varse to mi	e Grave	<u>1)</u>	Rec = 12"	
6		S-3	4								moist	
			5									
7			6	_						7'0"		
0		S-4	7 5		Br cf S, t S	\$,					Rec = 14"	
8		5-4	5								moist	
9			5									
10												
		~ -	7								Rec = 15"	
11		S-5	7 8		Br cf S, t (	(+) \$, t (-) ¢	cf G				very moist-wet	
12			9									
12												
13												
1.4												
14						Brown co	arca to fin	e SAND, tr	eaca (±)			
15								to fine Gra				
			3		same	,	, ,				Rec = 17"	
16		S-6	4								wet	
			4									
17			3									
18												
10												
19												
20			4								D 10"	
21		S-7	4		same						Rec = 18" wet	
41		<i>S-1</i>	3								***************************************	
22			3									

CAR		MPSON yreville, l	& ASSOC	CIA	TEST BORING LOG	BORING NUMBER	-29
Project				ain	Street, Tuckahoe, NY		of 2
Client:	•	Midora/0	Glenmark	Pa	rtners, LLC		-14
	Casing	Sample	Blows on		IDENTIFICATION	REMARKS	
			<b>1</b>				
23 24					Brown coarse to fine SAND, trace Silt, trace coarse to fine Gravel		
25							
26		S-8	5 4 3		Br cf S, t \$, t cf G	Rec = 15" wet	
27			3		27'0	"	
					End of Boring @ 27'0"		
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
41							
42							
43							
43							
45							
46							
47							

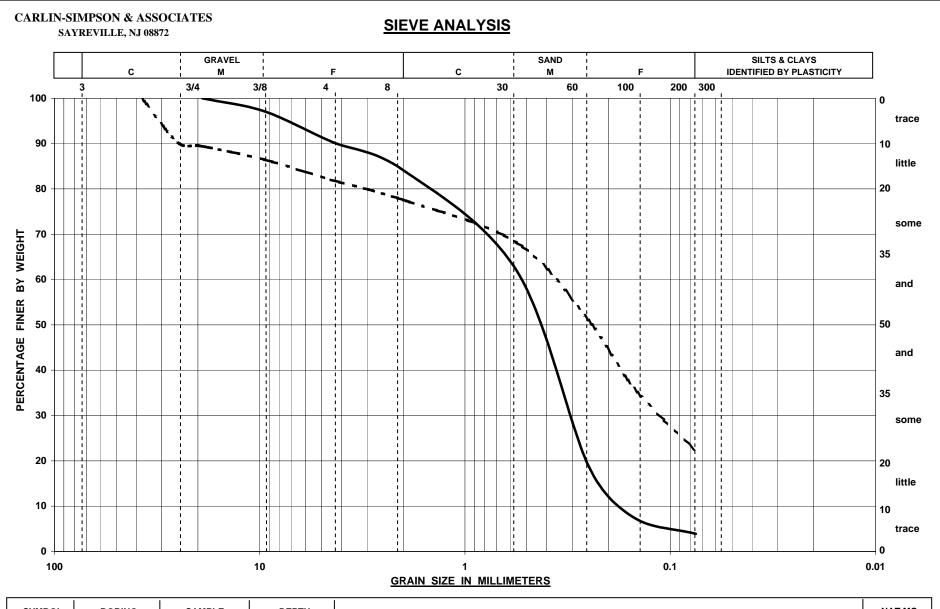
CARI			& ASSOC	CIA	ATES		TEST BO	RING LO		BORING NUMBER		
		yreville,		_	~ · · · · ·							B-30
Project						ickahoe, N	NY				SHEET NO.:	1 of 2
Client:	g Contra		Genmark		rtners, Li rings, Inc.	LC					JOB NUMBER: ELEVATION:	12-14 +113.0
	NDWA'		General	וטכ	mgs, mc.		CASING	SAMPLE	CORE	TURE		Topo
DA		TIME	DEPTH	(	CASING	TYPE	HSA	SS	CORE	TOBE	START DATE:	19 Apr 12
19 Apr		1130	17'0"	Ì	Auger	DIA.	3 1/4"	1 3/8"			FINISH DATE:	19 Apr 12
					U	WGHT		140#			DRILLER:	Erick D.
						FALL		30''			INSPECTOR:	EJS
_			Blows on	S								
(ft.)		Number	_	y m								
	per		Spoon			IDE		CLON			DEMAI	DIZC
	Foot		per 6''			IDE	NTIFICAT	HON			REMAI	KKS
1												
			10		Br cf S, 15	\$, 1 cf G					Rec = 19"	
2		S-1	6								moist	
			5					e SAND, lit	ttle Silt,			
3			5			<u>little coar</u>	se to fine (	<u>Gravel</u>			Rec = 15"	
4		S-2	3 2		same, t\$						moist	
_		5-2	1		same, t $\phi$						moist	
5			2							5'0"		
			6		Br cf S, t S	\$					Rec = 18"	
6		S-3	5								moist	
_			5									
7			7			CC					D 16"	
8		S-4	8 6		same, t (-)	1 G					Rec = 16" moist	
0		3-4	8								moist	
9			5									
10												
1.1			3		same						Rec = 16"	
11		S-5	4								moist	
12			8			Brown co	arse to fin	e Sand, tra	ce Silt			
13												
14												
15												
13			4		same						Rec = 24"	
16		S-6	5								moist/wet	
			5									
17			6									
10												
18												
19												
1)												
20												
			4		same						Rec = 20"	
21		S-7	5								wet	
22			4 9									
22			9									

CAR	MPSON yreville, 1	& ASSOC	CIA	TES TEST BORING LOG	TEST BORING LOG		BORING NUMBER B-30	
Project			ain	Street, Tuckahoe, NY	shoe. NY		2 of 2	
Client:				rtners, LLC		SHEET NO.: JOB NUMBER:	12-14	
Depth (ft.)	Sample Number	Blows on Sample Spoon per 6"	S y m	IDENTIFICATION		REMAR	KS	
23								
24								
25			-					
26	S-8	4 3		Br cf S, t \$, t f G		Rec = 24" wet		
27		3						
28								
29								
30						Rec = 20"		
31	S-9	3 4 3		Brown coarse to fine SAND,		wet		
32		7		trace Silt, trace fine Gravel				
33								
34								
35								
36	S-10	5 5		same		Rec = 17" wet		
37		7 15						
38								
39								
40								
41	S-11	5 7		same, t cf G		Rec = 20" wet		
42		17 28						
43					43'0"	Auger refusal @ 43'	0"	
44				End of Boring @ 43'0"				
45								
46								
47								



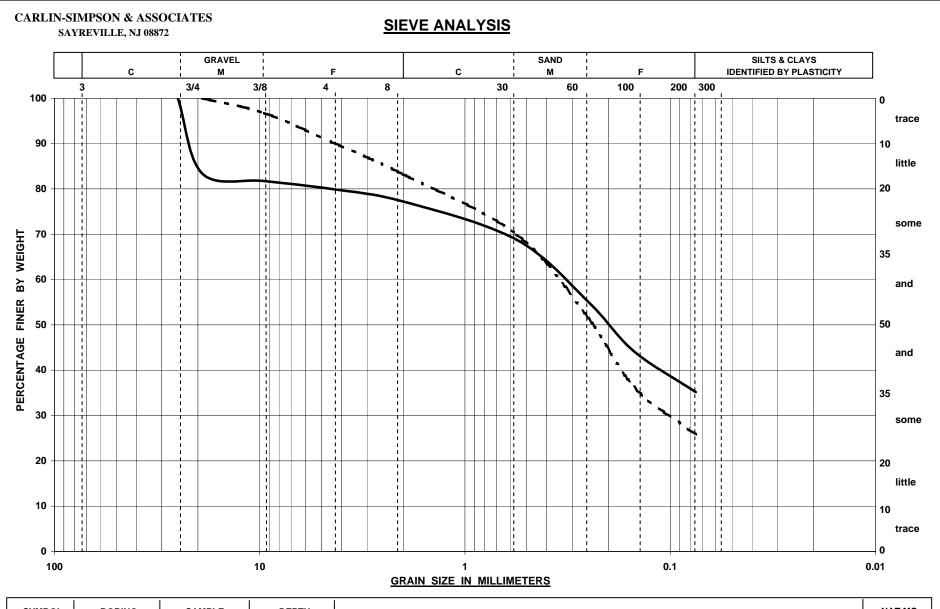
SYMBO	L BORING	SAMPLE	DEPTH	DESCRIPTION	NAT MC
	B-2	S-1	0' 0" - 2' 0"	FILL (Brown coarse to fine Sand, little Silt, and medium to fine Gravel)	6.6%
	B-9	S-1	1' 0" - 3' 0"	FILL (Brown gray coarse to fine GRAVEL and (+), coarse to fine Sand, little (-) Silt)	8.3%

PROJECT The Glenmark, Tuckahoe, New York	y JM	<b>DATE</b> 25-Apr-12	<b>JOB NO</b> 12-14
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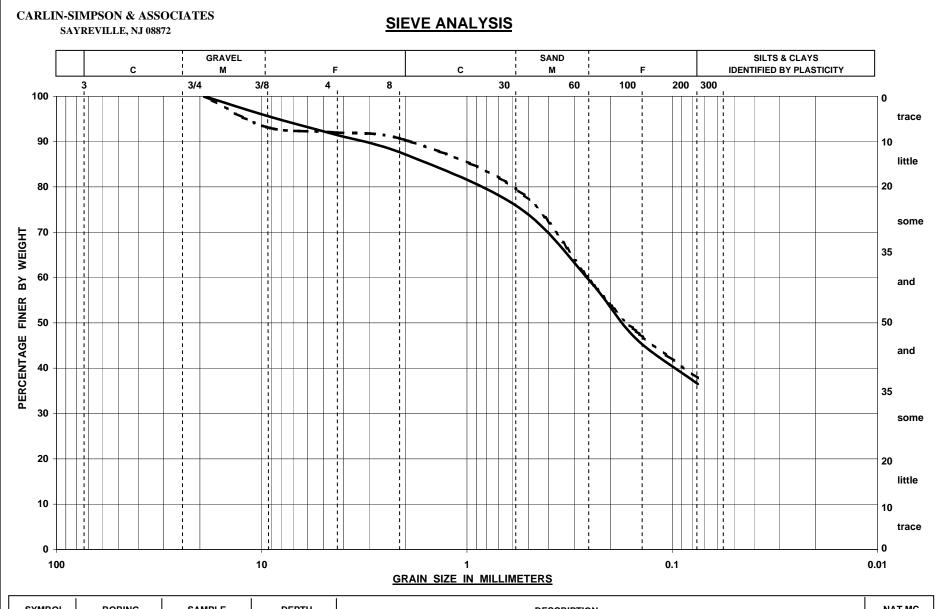
SYMBOL	BORING	SAMPLE	DEPTH	DESCRIPTION	NAT MC
	B-13	S-6	15' 0" - 17' 0"	Brown coarse to fine SAND, trace Silt, little medium to fine Gravel	12.0%
	B-16	S-2	3' 0" - 5' 0"	FILL (Brown coarse to fine SAND, some (-) Silt, some (-) coarse to fine Gravel)	13.2%

PROJECT The Glenmark, Tuckahoe, New York BY JM DATE 25-Apr-12 JOB NO 12-14



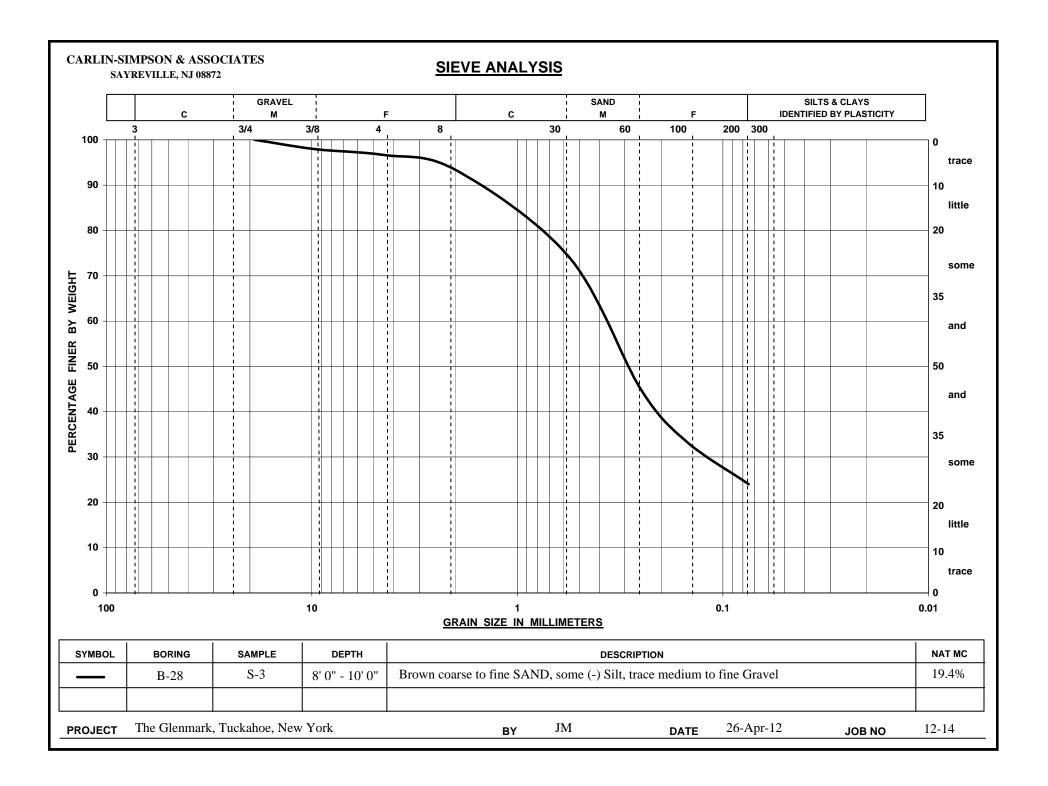
SYMBOL	BORING	SAMPLE	DEPTH	DESCRIPTION	NAT MC
	B-19	S-4	10' 0" - 12' 0"	FILL (Brown coarse to fine Sand, and (-) Silt, some (-) medium to fine Gravel)	17.4%
	B-20	S-3	15' 0" - 17' 0"	Brown coarse to fine SAND, some Silt, little medium to fine Gravel	9.5%

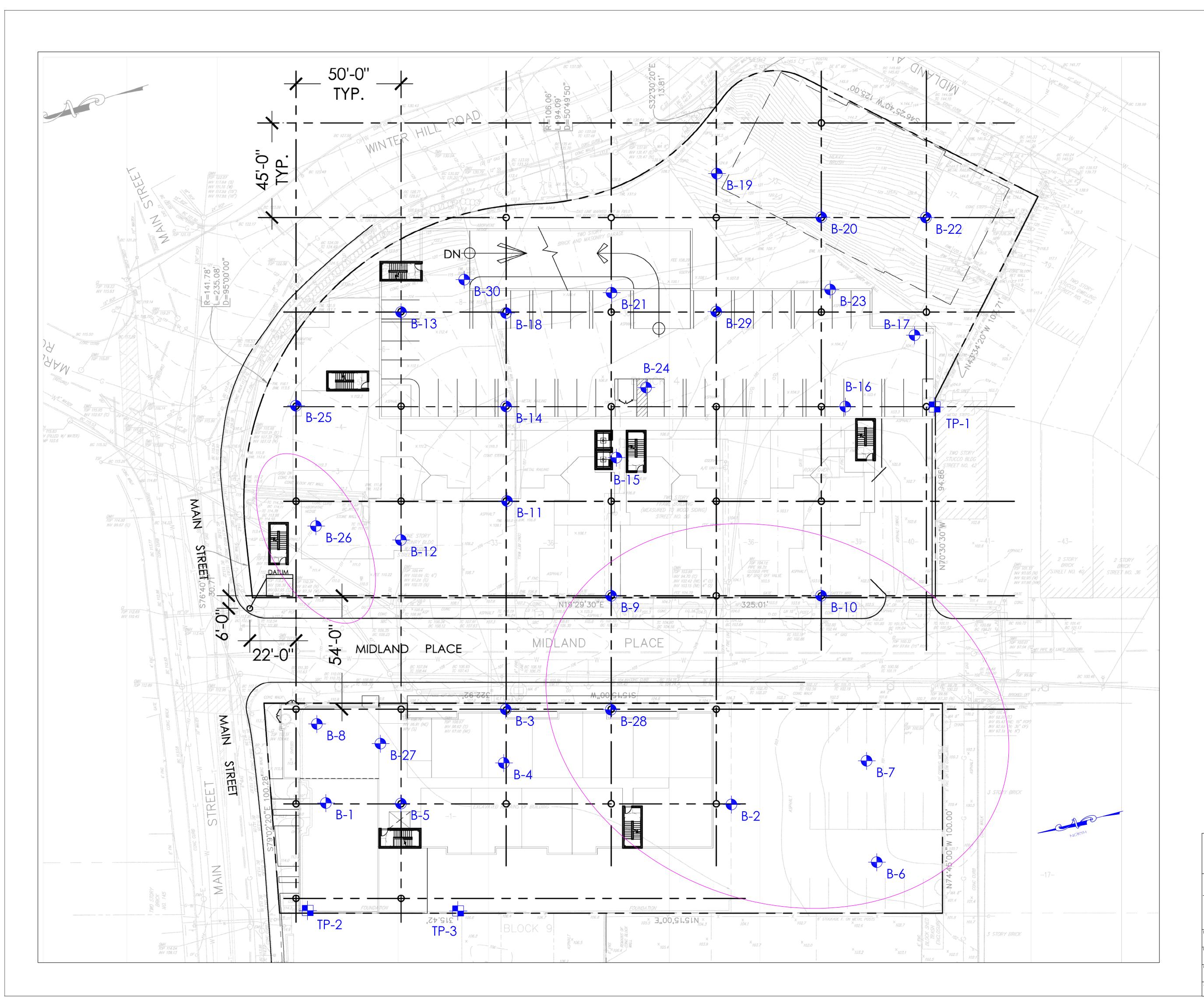
PROJECT The Glenmark, Tuckahoe, New York BY JM DATE 25-Apr-12 JOB NO 12-14



SYMBOL	BORING	SAMPLE	DEPTH	DESCRIPTION	NAT MC
	B-22	S-4	10' 0" - 12' 0"	Brown coarse to fine SAND, and (-) Silt, little (-) medium to fine Gravel	15.4%
	B-24	S-1	2' 0" - 4' 0"	FILL (Brown coarse to fine SAND, and (-) Silt, trace (+) medium to fine Gravel)	18.6%

PROJECT The Glenmark, Tuckahoe, New York BY JM DATE 25-Apr-12 JOB NO 12-14





## **GENERAL NOTES:**

- 1. GENERAL LAYOUT WAS OBTAINED FROM AN DRAWING PREPARED BY MINNO & WASKO, ENTITLED "SOIL BORING LOCATIONS", DATED 1-25-12.
- BORING LOCATIONS WERE LAID OUT IN THE FIELD BY CARLIN-SIMPSON & ASSOCIATES (CSA).
- 3. BORINGS WERE PERFORMED BY GENERAL BORINGS INC. IN APRIL 2012 UNDER THE FULL TIME INSPECTION OF CSA.
- 4. TEST PITS WERE PERFORMED ON 19 APRIL 2012 UNDER THE FULL TIME INSPECTION OF CSA.
- 5. LOCATIONS ARE APPROXIMATE.

## LEGEND:

— BORING LOCATION

- TEST PIT LOCATION



- APPROXIMATE LIMITS OF ORGANIC SILT AND/OR PEAT

## ROBERT B. SIMPSON, P.E.

PROFESSIONAL ENGINEER

## **BORING LOCATION PLAN**

PROPOSED GLENMARK PROPERTY LLC MIDLAND PLACE TUCKAHOE, NEW YORK

RHB	1" = 20'	CARLIN-SIMPSON AND ASSOCIATES
RBS	DATE 29 MAY 2012	61 Main Street Sayreville, NJ 08872
	DWG NO.	
12-14	FIG -1	Consulting Geotechnical and Environmental Engineers
ID .		