

GEO-TECHNOLOGY ASSOCIATES, INC.

GEOTECHNICAL AND
ENVIRONMENTAL CONSULTANTS



A Practicing Geoprofessional Business Association Member Firm

August 27, 2025

AMS Acquisitions

One Bridge Plaza North, Suite 840
Fort Lee, NJ 07024

Attn: Ryan Sutherland, AIA LEED AP BD&C
Director of Design and Development

Re: Stormwater Management Testing
Marlton Crossing
Township of Marlton, Burlington County, New Jersey

Dear Ryan:

In accordance with our agreement dated August 12, 2025, Geo-Technology Associates, Inc. (GTA) has performed test pits and preliminary in-situ infiltration testing for the planning and design of stormwater management (SWM) facilities related to a proposed 4-story residential building to be constructed in the Township of Marlton, Burlington County, New Jersey. The site is located at 100 Centre Boulevard, and is identified as Lot 3 in Block 24.21 on the Township of Marlton tax map.

A plan prepared by Taylor Wiseman & Taylor (TW&T) titled "Demolition Plan" dated June 26, 2025 was provided to GTA. The plan indicates the site boundaries, existing site features and topography, and was marked up to show the requested locations of 4 explorations within the proposed and potential SWM basin areas. The plan indicates that a proposed subsurface infiltration basin with a footprint area of approximately 3,500 square feet and a basin bottom elevation established at Elevation 90.0 feet will be sited in the northeastern corner of the site. Another potential SWM basin area is also indicated on the plan, adjacently east of the proposed basin in the northern portion of the site.

Test Pit Exploration

On August 21, 2025, GTA observed and logged the excavation of 4 test pits and performed in-situ infiltration testing at the requested locations. The test pits were excavated by J.A. Neary Excavating using a Case CX160 excavator and extended to depths ranging from approximately 14 to 18 feet below the existing ground surface. Preliminary in-situ infiltration testing was performed adjacent to each of the test pits using a double-ring infiltrometer. The exploration locations were selected by TW&T and

14 Worlds Fair Drive, Suite A, Somerset, NJ 08873 (732) 271-9301

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◆ Somerset, NJ ◆ NYC Metro ◆ Pittsburgh Metro ◆ Quakertown, PA ◆ Scranton/Wilkes-Barre, PA ◆ York, PA
◆ Northeastern, OH ◆ Sterling, VA ◆ Nashville, TN ◆ Charlotte, NC ◆ Raleigh, NC ◆ Orlando, FL

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located in the field by GTA using a hand-held GPS unit and existing site features as reference. The approximate locations of the explorations performed for this study are shown on the attached Test Pit Location Plan. Detailed descriptions of the subsurface conditions encountered in the test pits are indicated on the Logs of Test Pits, which are also attached. The ground surface elevations indicated on the logs were obtained by interpolating between topographic contours indicated on the plan provided to us and should be considered approximate.

Existing Conditions

At the time of GTA's exploration, the site was an existing office complex with associated parking lot areas. The test pits were performed in a landscaped area in the northern portion of the site, between the parking lot and Old Marlton Pike. The landscaped area where the test pits were performed sloped gently from about Elevation (EL) 100 feet in the east, down to about EL 95 feet in the west.

Subsurface Conditions

An approximately 6- to 8-inch thick layer of topsoil was encountered at the ground surface in the test pits performed for this study. Below the topsoil, Test Pits TP-1, TP-2 and TP-4 encountered existing fill materials that extended to depths ranging from about 3 to 6 feet below the ground surface. The fill generally consisted of sandy loam, silty loam, sandy clay loam, and sandy clay soils and contained debris including wood fragments and wires. A layer of buried topsoil was observed in Test Pit TP-4 at a depth of about 2 feet below the ground surface. The native soils below the fill and surface materials consisted predominantly of interlayered sandy clay, loam, sandy loam, and loamy sand soils, overlying a deeper sandy clay loam layer that was observed in all of the test pits at depths ranging from about 7½ to 13 feet below the ground surface.

Mottling indicative of the seasonal high water table (SHWT) was not observed in the test pits performed for this study. However, slight water seepage was observed in Test Pits TP-1 and TP-2 at depths of about 13 feet and 12 feet below the ground surface, respectively. Long-term groundwater readings were not obtained because the test pits were backfilled upon completion for safety considerations.

Infiltration Testing

Preliminary in-situ infiltration tests were performed adjacent to each of the test pits using a double-ring infiltrometer in general accordance with Chapter 12 of the NJDEP Stormwater Best Management Practices Manual (Chapter 12). The results of the infiltration tests are summarized in the following table.

SUMMARY OF INFILTRATION TEST RESULTS

Test Pit Location	Approx. Test Depth (ft.)	Approx. Test Elevation (ft.)	USDA Classification	Measured Infiltration Rate (in/hr)
TP-1	5	90	FILL – silt loam	0.0
TP-2	7½	89	Sandy Clay Loam	0.5
TP-3	10	89	Sandy Clay	0.0
TP-4	9	90	Gravelly Sandy Loam	10+
TP-4	11½	87.5	Sandy Clay	0.0

Note: A factor of safety of at least 2 should be applied to the measured infiltration rates for design purposes.

The primary conditions that affect the capacity of soil to infiltrate water are the soil gradation and density properties and the presence of hydraulically restrictive layers such as silt or clay (fines), rock, or groundwater, each of which would restrict the flow of water into the underlying aquifer. The subsurface profile at the site generally consisted of interlayered sandy clay, loam, sandy loam, and loamy sand soils, overlying a deeper sandy clay loam layer.

The infiltration testing performed for this study resulted in measured infiltration rates ranging from 0.0 to 0.5 inches per hour (in/hr) in the sandy clay, sandy clay loam, and loam soils tested and a rate of greater than 10 in/hr in the gravelly sandy loam tested.

LIMITATIONS

This letter, including all supporting test pit logs, field data, and other documents prepared by GTA in connection with this project have been prepared for the exclusive use of AMS Acquisitions pursuant to the agreement between GTA and the Client. All terms and conditions set forth in the Agreement and the General Provisions attached thereto are incorporated herein by reference. No warranty, express or implied, is made herein. Use and reproduction of this letter by any other person without the expressed written permission of GTA and the Client is unauthorized and such use is at the sole risk of the user. Test pits indicate soil conditions only at specific locations and times and only at the depths penetrated. They do not necessarily reflect strata or variations that may exist between the exploration locations.

GTA is not responsible for any claims, damages, or liability associated with interpretation of subsurface data or reuse of the subsurface data without the expressed written authorization of Geo-Technology Associates, Inc.

This letter and the attached logs are instruments of service. The subject matter of this report is limited to the facts and matters stated herein. Absence of a reference to any other conditions or subject matter shall not be construed by the reader to imply approval by the writer.

GTA appreciates the opportunity to have been of assistance to you on this project. Please contact our office at (732) 271-9301 if you have questions or require additional information. Please note that, unless you make other arrangements, GTA will discard all soil samples obtained from the explorations 60 days after the date of this report.

Sincerely,

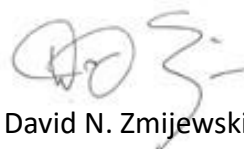
GEO-TECHNOLOGY ASSOCIATES, INC.



Allison Tether, P.G.
Senior Project Manager



Kyle T. Plaza, P.E.
Associate



David N. Zmijewski, P.E.
President

Attachments:

- Site Location Map*
- Test Pit Location Plan*
- Logs of Test Pits (4 pages)*



Note: Site boundary is approximate.

SITE LOCATION MAP



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 fax (732) 271-9306

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MARLTON CROSSING

Township of Marlton,
 Burlington County, New Jersey
 Prepared For: AMS Acquisitions

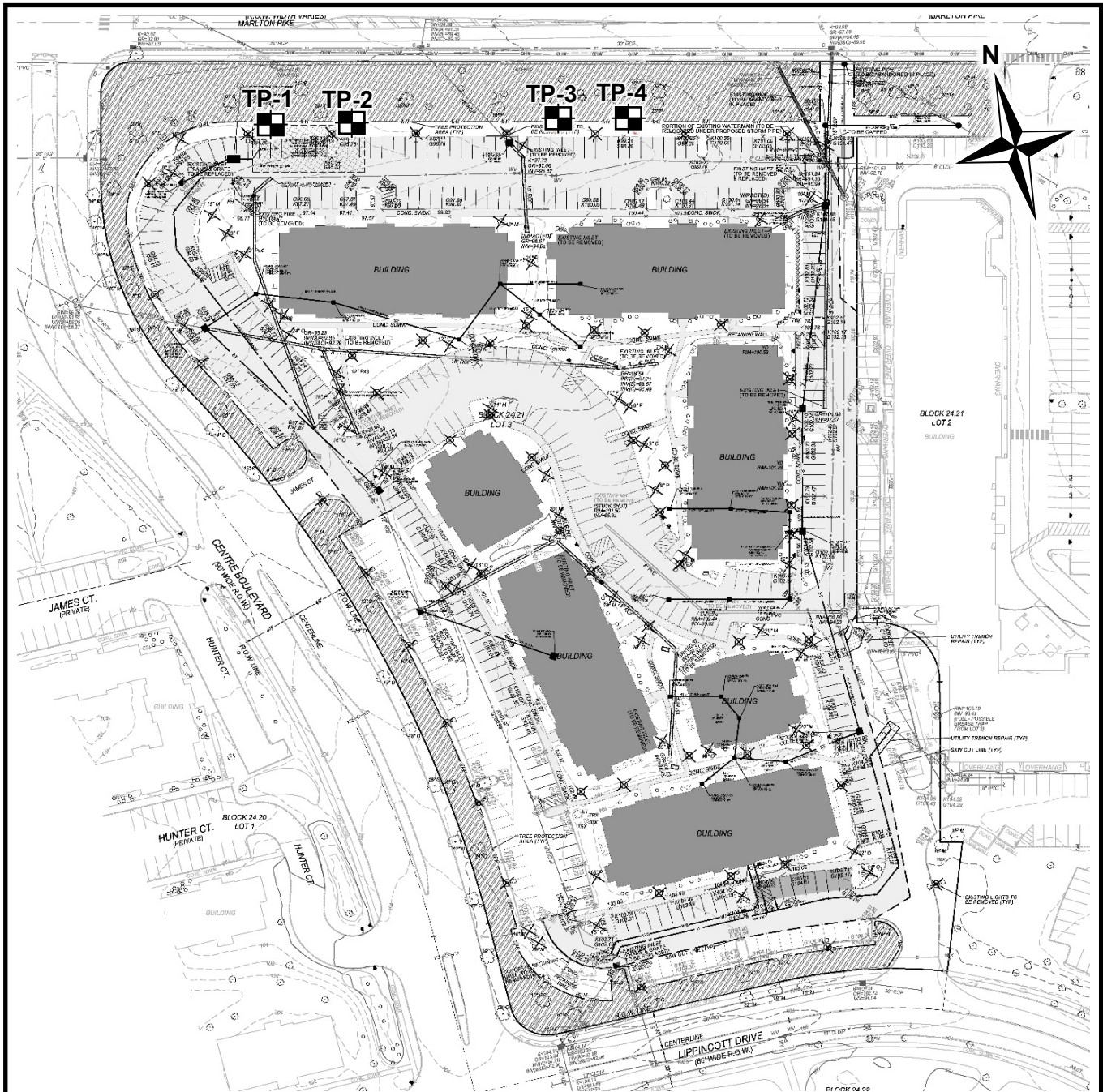
SOURCE: Google Maps

SCALE: NTS

DATE: AUG. 2025


PROJECT#: 31252015

Figure 1



*Base plan prepared by Taylor Wiseman & Taylor titled "Demolition Plan" dated June 26, 2025.

LEGEND:

TP-X  Indicates the numbers and approximate locations of test pits performed by GTA for this study.

PROPOSED EXPLORATION LOCATION PLAN



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GEO-TECHNOLOGY ASSOCIATES, INC.

MARLTON CROSSING

Township of Marlton,
Burlington County, New Jersey

Prepared For: AMS Acquisitions

DESIGN BY: *	DRAWN BY: AFS	REVIEWED BY: AMT
SCALE: NTS	DATE: AUG. 2025	PROJECT#: 31252015

LOG OF TEST PIT NO. TP-1

PROJECT: **Marlton Crossing**
 PROJECT LOCATION: **Township of Marlton, Burlington County, New Jersey**
 CLIENT: **AMS Acquisitions**

PROJECT NO.: **31252015**

DATE STARTED: **8/21/2025**
 DATE COMPLETED: **8/21/2025**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **95 Ft.**
 DATUM: **Topo**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL	DESCRIPTION	REMARKS
94.5	0			6 In. of Topsoil	
				FILL - Dark brown (10YR 3/3), moist, subangular blocky, friable, sandy clay - Very dark gray-brown (10YR 3/2), moist, subangular blocky, friable, silt loam at 2 Ft. - with wood fragments at 4 Ft.	- Infiltration Rate = 0.0 in/hr at 5 Ft.
89.0	5	ML		Olive (5Y 4/3), moist, subangular blocky, friable, Loam	
87.0	10	SC		Very dark green-gray (10Y 3/1), single grain to subangular blocky, loose to friable, Sandy Clay Loam	
81.0	15			Test pit complete at 14 Ft.	- Slight water seepage at 13 Ft.
	20				
	25				
	30				

NOTES: **Location and elevation are approximate.
 Backfilled on completion.**



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LOG OF TEST PIT NO. TP-1





LOG OF TEST PIT NO. TP-2

PROJECT: **Marlton Crossing**
 PROJECT LOCATION: **Township of Marlton, Burlington County, New Jersey**
 CLIENT: **AMS Acquisitions**

PROJECT NO.: **31252015**

DATE STARTED: **8/21/2025**
 DATE COMPLETED: **8/21/2025**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **96.5 Ft.**
 DATUM: **Topo**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL	DESCRIPTION	REMARKS
96.0	0			6 In. of Topsoil	
				FILL - Olive-brown (2.5Y 4/3), moist, subangular blocky, friable, sandy clay - Very dark gray-brown (2.5Y 3/2), moist, subangular blocky, friable, sandy clay loam at 1 Ft.	
				- with wood fragments and wires at 4 Ft.	
91.5	5	ML		Olive (5Y 4/3), moist, single grain to subangular blocky, loose to friable, Loam	
90.0		SM		Olive-brown (2.5Y 4/3), moist, single grain, loose, Sandy Loam	
89.0		SC		Very dark green-gray (10Y 3/1), moist, single grain to subangular blocky, loose to friable, Sandy Clay Loam	- Infiltration Rate = 0.5 in/hr at 7-1/2 Ft.
	10				
					- Slight water seepage at 12 Ft.
82.0	15			Test pit complete at 14-1/2 Ft.	
	20				
	25				
	30				

NOTES: **Location and elevation are approximate.**
Backfilled on completion.



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LOG OF TEST PIT NO. TP-2

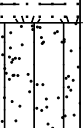





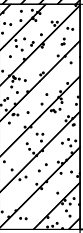
LOG OF TEST PIT NO. TP-3

PROJECT: **Marlton Crossing**
 PROJECT LOCATION: **Township of Marlton, Burlington County, New Jersey**
 CLIENT: **AMS Acquisitions**

PROJECT NO.: **31252015**

DATE STARTED: **8/21/2025**
 DATE COMPLETED: **8/21/2025**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **99 Ft.**
 DATUM: **Topo**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL	DESCRIPTION	REMARKS
98.3	0			8 In. of Topsoil	
		SM		Olive (2.5Y 4/3), moist, single grain, loose, Sandy Loam	
95.5		CL		Very dark gray-brown (2.5Y 3/2), moist, subangular blocky, friable, Sandy Clay	
94.0	5	SM		Olive (2.5Y 4/3), moist, single grain, loose, Sandy Loam	
93.0		CL		Olive-gray (5Y 4/2), moist, subangular blocky, friable, Sandy Clay	
92.0		SM		Olive (5Y 4/4), moist, 35% gravel, single grain, loose, Gravelly Sandy Loam	
89.0	10	CL		Dark olive-gray (5Y 3/2), moist, subangular blocky, friable, Sandy Clay	- Infiltration Rate = 0.0 in/hr at 10 Ft.
87.0		SC		Very dark green-gray (10Y 3/1), moist, single grain to subangular blocky, loose to friable, Sandy Clay Loam	
81.0	18			Test pit complete at 18 Ft.	
	20				
	25				
	30				

NOTES: **Location and elevation are approximate.**
Backfilled on completion.



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LOG OF TEST PIT NO. TP-3

LOG OF TEST PIT NO. TP-4

PROJECT: **Marlton Crossing**
 PROJECT LOCATION: **Township of Marlton, Burlington County, New Jersey**
 CLIENT: **AMS Acquisitions**

PROJECT NO.: **31252015**

DATE STARTED: **8/21/2025**
 DATE COMPLETED: **8/21/2025**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **99 Ft.**
 DATUM: **Topo**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL	DESCRIPTION	REMARKS
98.5	0		[Cross-hatch symbol]	6 In. of Topsoil	
				FILL - Olive (2.5Y 4/4), moist, single grain, loose, sandy loam	
				- Olive-gray (5Y 4/2), buried topsoil layer at 2 Ft.	
96.0		SP-SM	[Dotted symbol]	Olive (5Y 4/3), moist, single grain, loose, Loamy Sand	
	5				
93.0		SM	[Dotted symbol]	Olive (5Y 4/3), moist, 35% gravel, single grain, loose, Gravelly Sandy Loam	
	10				- Infiltration Rate = 10+ in/hr at 9 Ft.
87.5		CL	[Diagonal lines symbol]	Dark olive-gray (5Y 3/2), moist, subangular blocky, friable, Sandy Clay	
	15				- Infiltration Rate = 0.0 in/hr at 11-1/2 Ft.
86.0		SC	[Dotted symbol]	Very dark green-gray (10Y 3/1), moist, single grain to subangular blocky, loose to friable, Sandy Clay Loam	
	20				
82.0				Test pit complete at 17 Ft.	
	25				
	30				

NOTES: **Location and elevation are approximate.**
Backfilled on completion.



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LOG OF TEST PIT NO. TP-4