

# GEO-TECHNOLOGY ASSOCIATES, INC.

GEOTECHNICAL AND  
ENVIRONMENTAL CONSULTANTS



*A Practicing Geoprofessional Business Association Member Firm*

March 19, 2024

Odin Dunn, LLC  
55 Carter Drive, Suite L2  
Edison, New Jersey 08817

Attn: Akshay Joshi

Re: Stormwater Management Testing Services  
**295 Cedar Grove Lane**  
Somerset County, New Jersey

Dear Akshay:

In accordance with our February 16, 2024 agreement, Geo-Technology Associates, Inc. (GTA) has performed a geotechnical exploration consisting of test pits and in-situ infiltration testing for the preliminary planning and design of stormwater management (SWM) facilities related to the proposed residential development to be constructed in Franklin Township, Somerset County, New Jersey. The site is located at 295 Cedar Grove Lane. The western portion of the proposed development area is presently wooded, and an existing single-family home with ancillary structures is present in the eastern portion of the site.

GTA was provided with an undated and untitled plan as well as a "Grading & Utility Plan" prepared by Menlo Engineering Associates, Inc. (MEA) dated December 1, 2023 that indicate the site boundaries, existing site features and topography, and the layout and dimensions of the proposed site improvements. The proposed development will include 14 single-family homes and a stormwater management (SWM) basin will be sited in the southeastern corner of the development. The plan was marked-up to show the requested locations of 12 test pits; 9 test pits on individual building lots and 3 test pits within the proposed SWM basin area. The plan also shows the locations of test pits previously performed by others.

GTA observed the excavation of 12 test pits and performed in-situ infiltration testing adjacent to 3 of the test pits at the requested locations within the proposed SWM basin area. TP-109 was offset approximately 40 feet north due to a stockpile of large branches and logs, and TP-111 was offset approximately 20 feet northwest to avoid a potential septic system for the existing dwelling. The test pits were excavated on March 4, 2024 by J.A. Neary Excavating using a CASE CX160 excavator and extended to depths ranging from approximately 12 to 18 feet below the existing ground surface. In-situ infiltration testing was performed using a double-ring infiltrometer at depths of about 3 feet, 5½ feet,

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

◆ Abingdon, MD ◆ Baltimore, MD ◆ Laurel, MD ◆ Frederick, MD ◆ Waldorf, MD ◆ New Castle, DE ◆ Georgetown, DE  
◆ 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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and 5 feet adjacent to TP-110, TP-111, and TP-112, respectively. The exploration locations were selected by MEA and 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 shown on the test pit logs were obtained using topographic information from the provided plans and should be considered approximate.

All of the test pits performed for this exploration encountered topsoil at the surface that extended to depths of about 3 to 6 inches below the ground surface. The natural residual soils below the topsoil consisted predominantly of sands and gravels, and lean clay soils. Test Pits TP-104, TP-105, TP-107, TP-109, TP-110, TP-111 and TP-112 encountered highly weathered shale at about 5 to 17 feet below the ground surface.

Groundwater was observed in 6 of the 12 test pits performed for this study at depths ranging from about 9 to 16 feet below the existing ground level, corresponding to approximately elevation (EL) 108 feet to EL 112.5 feet. Long-term groundwater readings were not obtained because the test pits were backfilled upon completion for safety considerations. Mottling indicative of seasonal high water table (SHWT) was not observed in the test pits; however, the test pits were performed during the “wet season” defined by NJDEP as January through April. Therefore, we believe the encountered groundwater levels represent the SHWT at the explored locations. Where groundwater was not encountered, it is our opinion that the SHWT is below the depths explored.

Laboratory testing performed for this study included grain-size distribution for classification of the soils in accordance with the Unified Soil Classification System (USCS), as well as natural moisture content determinations. Detailed results of the laboratory testing performed for this study are included in Appendix C. The results of the laboratory tests are summarized in the following table:

**SUMMARY OF LABORATORY TEST RESULTS**

Test Pit Location	Depth (ft.)	USCS Classification	NMC (%)	Fines (%)
TP-103	2	Clayey SAND with gravel (SC)	26.4	45.7
TP-110	3	Clayey SAND (SC)	25.8	45.8
TP-112	6	Silty GRAVEL with sand (GM)	22.5	32.0

Note: NMC=Natural Moisture Content, Fines=Percentage of material passing the #200 sieve.

In-situ infiltration tests were performed at Test Pits TP-110, TP-111, and TP-112 using a double-ring infiltrometer in general accordance with Chapter 12 of the NJDEP Stormwater Best Management Practices Manual (SWM BMP). The results of the infiltration tests are summarized in the following table.

**SUMMARY OF INFILTRATION TEST RESULTS**

Test Pit Location	Depth (ft.)	USCS Classification [USDA Classification]	Measured Infiltration Rate (in/hr)
TP-110	3	Clayey SAND (SC) [Sandy Clay Loam]	0
TP-111	5.5	Silty GRAVEL with sand (GM) [Gravelly Sandy Loam]	.25
TP-112	5	Silty GRAVEL with sand (GM) [Gravelly Sandy Loam]	.25

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 residual soils comprised of interlayered clayey sands, gravels, and lean clay soils. Highly weathered rock was encountered in 7 of the 12 test pits about 5 to 17 feet below the ground surface.

Based on the results of the infiltration testing performed for this study, the residual soils tested were not very receptive to infiltration with measured infiltration rates ranging from 0 (zero) to 0.25 inches per hour.

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.**



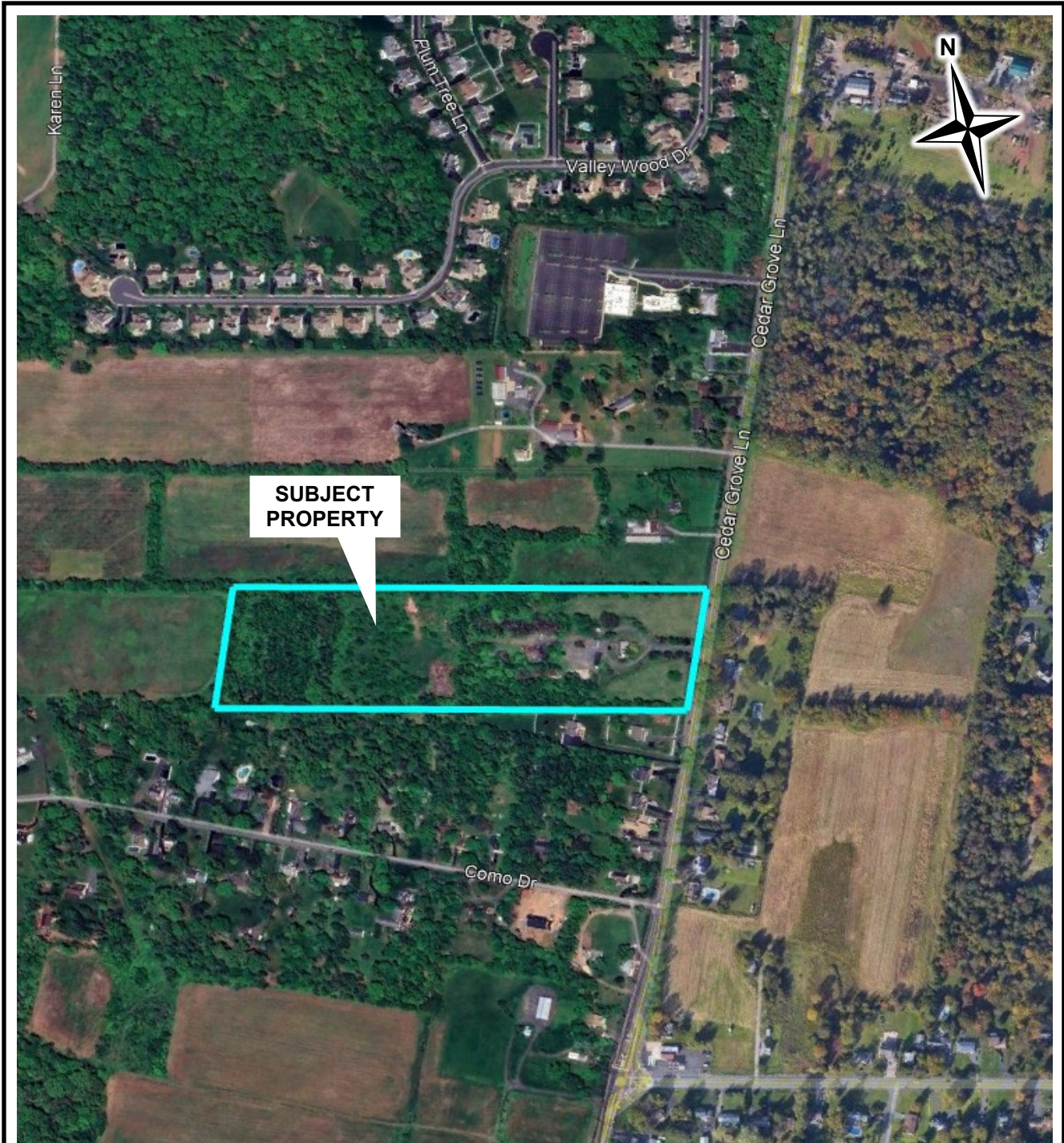
Kyle T. Plaza, P.E.  
Associate



Robert Dykstra, P.E.  
Vice President

Attachments:

- Site Map*
- Test Pit Location Plan*
- Logs of Test Pits (12 pages)*
- Particle Size Distribution Reports (3 pages)*



Note: Site boundary is approximate.

**SITE LOCATION MAP**



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 fax (732) 271-9306

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**295 CEDAR GROVE LANE**

Franklin Township,  
 Somerset County, New Jersey  
 Prepared For: Odin Dunn, LLC

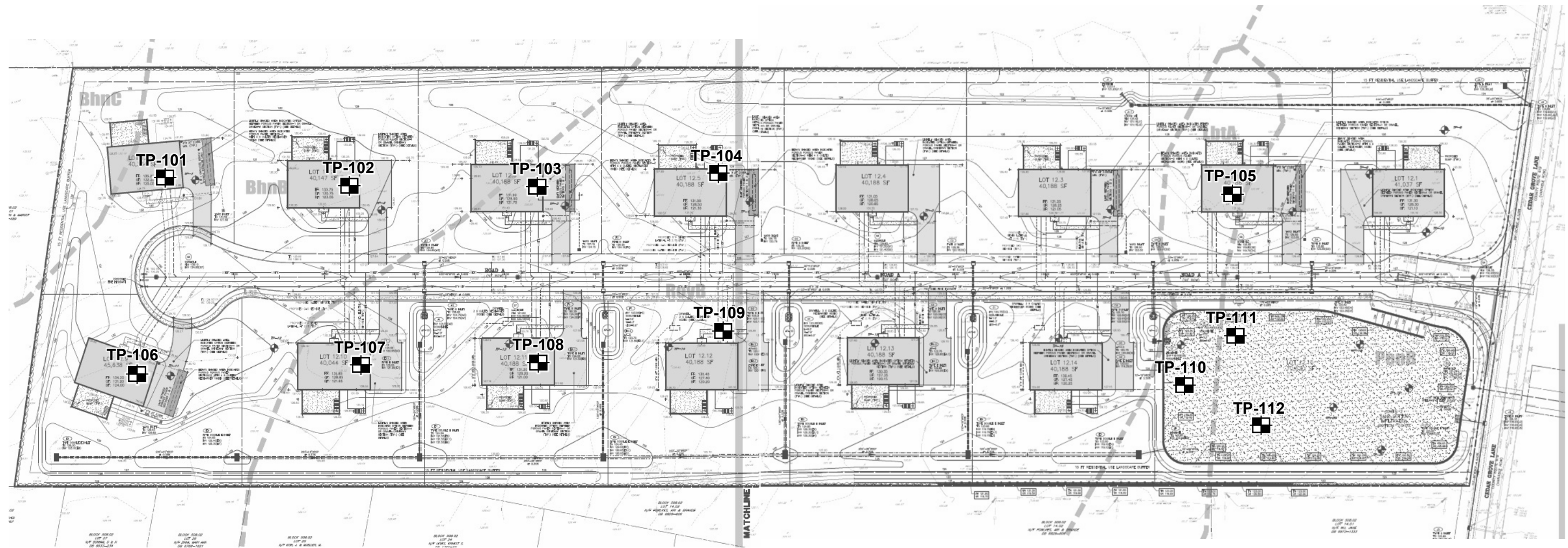
SOURCE: Google Maps

SCALE: NTS

DATE: MAR. 2024


PROJECT #: 31240471

Figure 1



\*Base plans prepared by Menlo Engineering Associates titled, "Grading & Utility Plan (1)" and "Grading & Utility Plan (2)", dated December 1, 2023

**LEGEND:**

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


<b>EXPLORATION LOCATION PLAN</b>		<b>295 CEDAR GROVE LANE</b>	
 <p>14 Worlds Fair Drive, Suite A Somerset, New Jersey 08873 (732) 271-9301 fax (732) 271-9306</p> <p><b>GEO-TECHNOLOGY ASSOCIATES, INC.</b></p>		<p>Franklin Township, Somerset County, New Jersey</p> <p>Prepared For: Odin Dunn, LLC</p>	
		DESIGN BY: *	DRAWN BY: VP
SCALE: NTS	DATE: MAR. 2024	PROJECT #: 31240471	

Figure 2




# LOG OF TEST PIT NO. TP-101

PROJECT: **295 Cedar Grove Lane**  
 PROJECT LOCATION: **Franklin Township, New Jersey**  
 CLIENT: **Odin Dunn, LLC**

PROJECT NO.: **31240471**

DATE STARTED: **3/4/2024**  
 DATE COMPLETED: **3/4/2024**  
 CONTRACTOR: **J.A. Neary Excavating**  
 EQUIPMENT: **CASE CX160**

GROUNDWATER ENCOUNTERED: **N/E**  
 GROUND SURFACE ELEVATION: **132 Ft.**  
 DATUM: **Topo**  
 LOGGED BY: **VP**  
 CHECKED BY: **KTP**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL	DESCRIPTION	REMARKS
131.5	0	SC		6 In. Topsoil Red-brown, moist, Clayey SAND	
127.0	4	SM		Red-yellow, moist, Silty SAND with gravel	
124.0	8	GM		Dark red-brown, moist, Silty GRAVEL with sand and cobbles	
117.0	16			Test pit complete at 15 Ft. Estimated seasonal high water table not encountered.	
	20				
	24				

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



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**LOG OF TEST PIT NO. TP-101**



# LOG OF TEST PIT NO. TP-102

PROJECT: **295 Cedar Grove Lane**  
 PROJECT LOCATION: **Franklin Township, New Jersey**  
 CLIENT: **Odin Dunn, LLC**

PROJECT NO.: **31240471**

DATE STARTED: **3/4/2024**  
 DATE COMPLETED: **3/4/2024**  
 CONTRACTOR: **J.A. Neary Excavating**  
 EQUIPMENT: **CASE CX160**

GROUNDWATER ENCOUNTERED: **N/E**  
 GROUND SURFACE ELEVATION: **131.5 Ft.**  
 DATUM: **Topo**  
 LOGGED BY: **VP**  
 CHECKED BY: **KTP**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL	DESCRIPTION	REMARKS
131.0	0	CL		6 In. Topsoil Red-brown, moist, Lean CLAY with sand	
127.0	4	GM		Dark red-brown, moist, Silty GRAVEL with sand and cobbles	
116.5	16			Test pit complete at 15 Ft. Estimated seasonal high water table not encountered.	
	20				
	24				

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



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**LOG OF TEST PIT NO. TP-102**

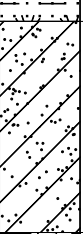

# LOG OF TEST PIT NO. TP-103

PROJECT: **295 Cedar Grove Lane**  
 PROJECT LOCATION: **Franklin Township, New Jersey**  
 CLIENT: **Odin Dunn, LLC**

PROJECT NO.: **31240471**

DATE STARTED: **3/4/2024**  
 DATE COMPLETED: **3/4/2024**  
 CONTRACTOR: **J.A. Neary Excavating**  
 EQUIPMENT: **CASE CX160**

GROUNDWATER ENCOUNTERED: **N/E**  
 GROUND SURFACE ELEVATION: **130 Ft.**  
 DATUM: **Topo**  
 LOGGED BY: **VP**  
 CHECKED BY: **KTP**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL	DESCRIPTION	REMARKS
129.5	0			6 In. Topsoil	
	4	SC		Red-brown, moist, Clayey SAND	- NMC = 26.4%
125.0	8	GM		Dark red-brown, moist, Silty GRAVEL with sand and cobbles	
114.0	16			Test pit complete at 16 Ft. Estimated seasonal high water table not encountered.	
	20				
	24				

NOTES: **Location and elevation are approximate.**  
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**LOG OF TEST PIT NO. TP-103**





# LOG OF TEST PIT NO. TP-104

PROJECT: **295 Cedar Grove Lane**  
 PROJECT LOCATION: **Franklin Township, New Jersey**  
 CLIENT: **Odin Dunn, LLC**

PROJECT NO.: **31240471**

DATE STARTED: **3/4/2024**  
 DATE COMPLETED: **3/4/2024**  
 CONTRACTOR: **J.A. Neary Excavating**  
 EQUIPMENT: **CASE CX160**

GROUNDWATER ENCOUNTERED: **13 Ft.**  
 GROUND SURFACE ELEVATION: **125.5 Ft.**  
 DATUM: **Topo**  
 LOGGED BY: **VP**  
 CHECKED BY: **KTP**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL	DESCRIPTION	REMARKS
125.0	0	SC		6 In. Topsoil	
				Red-brown, moist, Clayey SAND with gravel	
	4				
119.5	8	GM		Dark red-brown, moist, Silty GRAVEL with sand and cobbles	- slight perched water seepage at 8 Ft.
	12				
112.0	16	HW		Dark red-brown, moist, Highly-weathered ROCK (Shale)	▼ slight perched water seepage at 13 Ft.
109.5	16			Test pit complete at 16 Ft. Estimated seasonal high water table encountered at 13 feet.	
	20				
	24				

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



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**LOG OF TEST PIT NO. TP-104**





# LOG OF TEST PIT NO. TP-105

PROJECT: **295 Cedar Grove Lane**  
 PROJECT LOCATION: **Franklin Township, New Jersey**  
 CLIENT: **Odin Dunn, LLC**

PROJECT NO.: **31240471**

DATE STARTED: **3/4/2024**  
 DATE COMPLETED: **3/4/2024**  
 CONTRACTOR: **J.A. Neary Excavating**  
 EQUIPMENT: **CASE CX160**

GROUNDWATER ENCOUNTERED: **10.5 Ft.**  
 GROUND SURFACE ELEVATION: **122.5 Ft.**  
 DATUM: **Topo**  
 LOGGED BY: **VP**  
 CHECKED BY: **KTP**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL	DESCRIPTION	REMARKS
122.2	0	SC		3 In. Topsoil Red-brown, moist, Clayey SAND	
119.0	4	GM		Dark red-brown, moist, Silty GRAVEL with sand and cobbles	
114.0	8	HW		Dark red-brown, moist, Highly-weathered ROCK (Shale)	
108.5	12			Test pit complete at 14 Ft. due to refusal on highly-weathered rock. Estimated seasonal high water table encountered at 10-1/2 feet.	 - slight water seepage at 10-1/2 Ft.
	16				
	20				
	24				

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



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**LOG OF TEST PIT NO. TP-105**



# LOG OF TEST PIT NO. TP-106

PROJECT: **295 Cedar Grove Lane**  
 PROJECT LOCATION: **Franklin Township, New Jersey**  
 CLIENT: **Odin Dunn, LLC**

PROJECT NO.: **31240471**

DATE STARTED: **3/4/2024**  
 DATE COMPLETED: **3/4/2024**  
 CONTRACTOR: **J.A. Neary Excavating**  
 EQUIPMENT: **CASE CX160**

GROUNDWATER ENCOUNTERED: **N/E**  
 GROUND SURFACE ELEVATION: **128.5 Ft.**  
 DATUM: **Topo**  
 LOGGED BY: **VP**  
 CHECKED BY: **KTP**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL	DESCRIPTION	REMARKS
128.0	0	SC		6 In. Topsoil	
				Red-brown, moist, Clayey SAND	
124.0	4	GM		Dark red-brown, moist, Silty GRAVEL with sand and cobbles	
	8				
	12				
113.5	16			Test pit complete at 15 Ft. Estimated seasonal high water table not encountered.	
	20				
	24				

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



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**LOG OF TEST PIT NO. TP-106**

# LOG OF TEST PIT NO. TP-107

PROJECT: **295 Cedar Grove Lane**  
 PROJECT LOCATION: **Franklin Township, New Jersey**  
 CLIENT: **Odin Dunn, LLC**

PROJECT NO.: **31240471**

DATE STARTED: **3/4/2024**  
 DATE COMPLETED: **3/4/2024**  
 CONTRACTOR: **J.A. Neary Excavating**  
 EQUIPMENT: **CASE CX160**

GROUNDWATER ENCOUNTERED: **N/E**  
 GROUND SURFACE ELEVATION: **130 Ft.**  
 DATUM: **Topo**  
 LOGGED BY: **VP**  
 CHECKED BY: **KTP**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL	DESCRIPTION	REMARKS
129.5	0	CL		6 In. Topsoil Brown, moist, Lean CLAY with sand	
126.0	4	SM		Red-brown, moist, Silty SAND with gravel	
123.0	8	GM		Red-brown, moist, Silty GRAVEL with sand and cobbles	
113.0	16	HW		Dark red-brown, moist, Highly-weathered ROCK (Shale)	
112.0	20			Test pit complete at 18 Ft. Estimated seasonal high water table not encountered.	
	24				

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



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**LOG OF TEST PIT NO. TP-107**

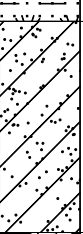

# LOG OF TEST PIT NO. TP-108

PROJECT: **295 Cedar Grove Lane**  
 PROJECT LOCATION: **Franklin Township, New Jersey**  
 CLIENT: **Odin Dunn, LLC**

PROJECT NO.: **31240471**

DATE STARTED: **3/4/2024**  
 DATE COMPLETED: **3/4/2024**  
 CONTRACTOR: **J.A. Neary Excavating**  
 EQUIPMENT: **CASE CX160**

GROUNDWATER ENCOUNTERED: **N/E**  
 GROUND SURFACE ELEVATION: **128.5 Ft.**  
 DATUM: **Topo**  
 LOGGED BY: **VP**  
 CHECKED BY: **KTP**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL	DESCRIPTION	REMARKS
128.0	0			6 In. Topsoil	
		SC		Red-brown, moist, Clayey SAND	
123.5	4				
		GM		Dark red-brown, moist, Silty GRAVEL with sand and cobbles	
112.5	16			Test pit complete at 16 Ft. Estimated seasonal high water table not encountered.	
	20				
	24				

NOTES: **Location and elevation are approximate.**  
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Somerset, NJ 08873

**LOG OF TEST PIT NO. TP-108**





# LOG OF TEST PIT NO. TP-109

PROJECT: **295 Cedar Grove Lane**  
 PROJECT LOCATION: **Franklin Township, New Jersey**  
 CLIENT: **Odin Dunn, LLC**

PROJECT NO.: **31240471**

DATE STARTED: **3/4/2024**  
 DATE COMPLETED: **3/4/2024**  
 CONTRACTOR: **J.A. Neary Excavating**  
 EQUIPMENT: **CASE CX160**

GROUNDWATER ENCOUNTERED: **16 Ft.**  
 GROUND SURFACE ELEVATION: **124 Ft.**  
 DATUM: **Topo**  
 LOGGED BY: **VP**  
 CHECKED BY: **KTP**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL	DESCRIPTION	REMARKS
123.7	0	SC		3 In. Topsoil	
				Red-brown, moist, Clayey SAND with gravel	
121.0	4	GM		Dark red-brown, moist, Silty GRAVEL with sand and cobbles	
	8				
	12				
109.0	16	HW		Dark red-brown, moist, Highly-weathered ROCK (Shale)	 - slight water seepage at 16 Ft.
107.0				Test pit complete at 17 Ft. Estimated seasonal high water table encountered at 16 feet.	
	20				
	24				

NOTES: **Location and elevation are approximate.**  
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**LOG OF TEST PIT NO. TP-109**




# LOG OF TEST PIT NO. TP-110

PROJECT: **295 Cedar Grove Lane**  
 PROJECT LOCATION: **Franklin Township, New Jersey**  
 CLIENT: **Odin Dunn, LLC**

PROJECT NO.: **31240471**

DATE STARTED: **3/4/2024**  
 DATE COMPLETED: **3/4/2024**  
 CONTRACTOR: **J.A. Neary Excavating**  
 EQUIPMENT: **CASE CX160**

GROUNDWATER ENCOUNTERED: **10 Ft.**  
 GROUND SURFACE ELEVATION: **120 Ft.**  
 DATUM: **Topo**  
 LOGGED BY: **VP**  
 CHECKED BY: **KTP**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL	DESCRIPTION	REMARKS
119.7	0	SC		3 In. Topsoil	- Infiltration Rate = 0 in/hr at 3 Ft. - NMC = 25.8%
				Red-brown (2.5YR 4/4), moist, Clayey SAND [Sandy Clay Loam per USDA]	
116.0	4	GM		Dark red-brown (2.5YR 3/4), moist, Silty GRAVEL with sand and cobbles [Gravelly Sandy Loam per USDA]	
115.0		HW		Dark red-brown (2.5YR 3/4), moist, Highly-weathered ROCK (Shale)	▽ - slight water seepage at 10 Ft. - difficult excavation at 11 Ft.
	8				
108.0	12			Test pit complete at 12 Ft. Estimated seasonal high water table encountered at 10 feet.	
	16				
	20				
	24				

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



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14 Worlds Fair Drive, Suite A  
 Somerset, NJ 08873

**LOG OF TEST PIT NO. TP-110**




# LOG OF TEST PIT NO. TP-111

PROJECT: **295 Cedar Grove Lane**  
 PROJECT LOCATION: **Franklin Township, New Jersey**  
 CLIENT: **Odin Dunn, LLC**

PROJECT NO.: **31240471**

DATE STARTED: **3/4/2024**  
 DATE COMPLETED: **3/4/2024**  
 CONTRACTOR: **J.A. Neary Excavating**  
 EQUIPMENT: **CASE CX160**

GROUNDWATER ENCOUNTERED: **9 Ft.**  
 GROUND SURFACE ELEVATION: **121.5 Ft.**  
 DATUM: **Topo**  
 LOGGED BY: **VP**  
 CHECKED BY: **KTP**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL	DESCRIPTION	REMARKS
121.2	0	SC		3 In. Topsoil Red-brown (2.5YR 4/4), moist, Clayey SAND [Sandy Clay Loam per USDA]	
118.5	4	GM		Dark red-brown (2.5YR 3/4), moist, Silty GRAVEL with sand and cobbles [Gravelly Sandy Loam per USDA]	- Infiltration Rate = 0.25 in/hr at 5-1/2 Ft.
114.0	8	HW		Dark red-brown (2.5YR 3/4), moist, Highly-weathered ROCK (Shale)	▼ - slight water seepage at 9 Ft.
108.5	12			Test pit complete at 13 Ft. Estimated seasonal high water table encountered at 9 feet.	- difficult excavation at 11 Ft.
	16				
	20				
	24				

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



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**LOG OF TEST PIT NO. TP-111**

# LOG OF TEST PIT NO. TP-112

PROJECT: **295 Cedar Grove Lane**  
 PROJECT LOCATION: **Franklin Township, New Jersey**  
 CLIENT: **Odin Dunn, LLC**

PROJECT NO.: **31240471**

DATE STARTED: **3/4/2024**  
 DATE COMPLETED: **3/4/2024**  
 CONTRACTOR: **J.A. Neary Excavating**  
 EQUIPMENT: **CASE CX160**

GROUNDWATER ENCOUNTERED: **10 Ft.**  
 GROUND SURFACE ELEVATION: **121 Ft.**  
 DATUM: **Topo**  
 LOGGED BY: **VP**  
 CHECKED BY: **KTP**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL	DESCRIPTION	REMARKS
120.7	0	SC		3 In. Topsoil	- Infiltration Rate = 0.25 in/hr at 5 Ft. - NMC = 22.5%  - slight water seepage at 10 Ft. - difficult excavation at 12 Ft.
				Red-brown (2.5YR 4/4), moist, Clayey SAND [Sandy Clay Loam per USDA]	
116.5	4	GM		Dark red-brown (2.5YR 3/4), moist, Silty GRAVEL with sand and cobbles [Gravelly Sandy Loam per USDA]	
113.0	8	HW		Dark red-brown (2.5YR 3/4), moist, Highly-weathered ROCK (Shale)	
108.0	12			Test pit complete at 13 Ft. Estimated seasonal high water table encountered at 10 feet.	
	16				
	20				
	24				

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



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**LOG OF TEST PIT NO. TP-112**





