

## PRINCETON JUNCTION ENGINEERING, P.C.

PROFESSIONAL ENGINEERS AND LAND SURVEYORS

D. GEOFFREY BROWN, P.E., L.S. & P.P. FRANK J. FALCONE, L.S. & P.P. MARTIN D. KATZ, L.S. KEVIN M. BRAKEL, P.E.

### **Soils Testing Data Sheet** Soil Log # One

NORTH POST ROAD P.O. Box 610 PRINCETON JUNCTION, NJ 08550

609.799.1906 FAX: 609.799.1524 EMAIL: PJEPC@PJEPC.COM

	143 Soı	Henry & Jane E. Landau oth Lane Vindsor, New Jersey 08550	Muni Block Lot _		sor Township				
1.		ımber <u>One</u> I (Check One): <u>X</u> Profile	e Pit	Boring					
2.	Soil Log:  Depth (inches) Top-Bottom  Munsell Color Name and Symbol; Estimated Textural Class; Estimated Volume % Coarse Fragment (if present); Structure; Moist or Dry Consistency; Mottling-Abundance, Size & Contrast (if present)								
DEPTI	H		DESCRIPTIO		(12 p. 122)				
0"-10"		10 YR 5/4	Heavy Sandy L		am Subangular Blocky; Moist Friable; oundary.				
10"-31	,	10 YR 5/8	Moderate Stron		Mixed Gravel & Rounded Shale; Moist Friable & Saturated; Few Fine both Boundary.				
31" – 92'		2.5 Y 7/2	Prominent 7.5Y	R 5/8 & 2.5Y7/1 Mot cky; Moist Firm & Sa	nded Shale; Many, Medium, tles @ 31"; Moderate Strong turated; Clear Smooth Boundary. 10%				
92" – 138	8"	2.5 Y 5/4			Shale, Many, Medium, Prominent Massive; Moist Very Firm.				
<ol> <li>4.</li> </ol>	Seep Pit /	Ground Water Observation:  Seepage - Indicate Depth 42" Moderate, Fast Pit / Boring Flooded - Depth After Hours:  Soil Limiting Zones (Check Appropriate Categories) Fractured Rock Substratum - Depth to Top							
		Massive Rock Substratum Excessively Coarse Horizon Excessively Coarse Substra Hydraulically Restrictive H Hydraulically Restrictive St Perched Zone of Saturation Regional Zone of Saturation	tum orizon ubstratum	- Depth to Top - Depth Top to Bo - Depth to Top - Depth Top to Bo - Depth to Top 31 - Depth Top to Bo - Depth Top to Bo - Depth Top to Bo - Depth to Top 31	ottom <u>1"</u> ottom				
5.	Soil Suit	tability Classification; III	Sr						
6.	aware of	certify that the information of falsification of data is a viological to penalties as prescrib	lation of the Wa	ter Pollution Contro	cation is true and accurate. I am ol Act (N.J.S.A.58:10A-1 et seq.)				
	Signature	e of Site EvaluatorRobin R	ittenhouse	<u> </u>	Date <u>07/26/2021</u>				
	Signature	e of Prof. Engineer	FFREY BROV	VN. PE & LS	License # <u>24327</u>				

**AFFIX SEAL** SoilLog1.doc



## PRINCETON JUNCTION ENGINEERING, P.C. PROFESSIONAL ENGINEERS AND LAND SURVEYORS

D. GEOFFREY BROWN, P.E., L.S. & P.P. FRANK J. FALCONE, L.S. & P.P. MARTIN D. KATZ, L.S. KEVIN M. BRAKEL, P.E.

# Soils Testing Data Sheet Soil Log # Two

North Post Road P.O. Box 610 Princeton Junction, NJ 08550

609.799.1906 FAX: 609.799.1524 EMAIL: PJEPC@PJEPC.COM

	Client: Henry & Jane E. Landau			Municipality West Windsor Township		
		uth Lane		Block <u>34</u>		
	West W	Vindsor, New Jersey 08550		Lot <u>21</u>		
1.	Log Nu	ımber <u>Two</u>				
		d (Check One): X Profil	e Pit	Boring		
•	C-9.7 -					
2.	Soil Lo Depth (in	~	and Symbo	ol; Estimated Textural Class;		
	Top-Bott	om Estimated Volume %	Coarse Fra	gment (if present);		
DEDTI	т.			ncy; Mottling-Abundance, Size & Contrast (if present)		
<b>DEPTE</b> 0"-11"	1	MUNSELL COLOR 10 YR 5/4		IPTION		
			Many F	Sandy Loam; Moderate Medium Subangular Blocky; Moist Friable; ine Roots; Abrupt, Smooth Boundary.		
11" – 26"	,	10 YR 5/4	Sandy (	Clay Loam; 2% Mixed Gravel & Rounded Shale; Moderate Strong		
			Gradual	r Blocky; Moist Firm; Common Fine Roots & Channels to 26"; I, Smooth Boundary.		
26" – 91"	,	10 Y 6/6		ndy Loam, 20 % Mixed Gravel & Rounded Shale; Many, Medium,		
				Distinct 7.5YR 5/8 Mottles @ 26"; Weak Medium Subangular		
			Blocky;	Moist Very Friable & Saturated; Clear Smooth Boundary. Sample.		
91" – 120	)"	2.5 Y 5/4		% Mixed Gravel & Rounded Shale, Many, Medium, Distinct 7.5YR tles @ 91"; Massive; Moist Very Firm.		
3.	Ground	Water Observation:				
	Seep	page - Indicate Depth 35" Fa	ast.			
	Pit /	Boring Flooded - Depth Aft	er	Hours:		
4	C 11.T.	***				
4.		niting Zones (Check Approp		• ,		
	=/	Fractured Rock Substratum Massive Rock Substratum	L	- Depth to Top		
		Excessively Coarse Horizon	n	- Depth to Top - Depth Top to Bottom		
	==:	Excessively Coarse Substra		- Depth to Top		
		Hydraulically Restrictive H		- Depth Top to Bottom		
	_X_	Hydraulically Restrictive St				
		Perched Zone of Saturation		Depth Top to Bottom		
	<u>X</u>	Regional Zone of Saturation	n	- Depth to Top 26" (Mottles)		
5.	Soil Sui	tability Classification: II V	Vr, Sr			
6.	I hereby	certify that the information	furnished	d on Form 2B of this application is true and accurate. I am		
	aware of	falsification of data is a vio	lation of	the Water Pollution Control Act (N.J.S.A.58:10A-1 et seq.)		
	and is su	bject to penalties as prescrib	ed in N.	J.A.C. 7:14-8.		
	Signatur	e of Site Evaluator		Date 07/26/2021		
		Robin R	ittenhous	se Se		
	01	CD CE I	y A	<b>4</b> //)		
	Signatur	e of Prof. Engineer	THE PARTY OF	License # <u>24327</u>		
	D. GEOFFREY BROWN, PE & LS					

**AFFIX SEAL** 

SoilLog2.doc



# PRINCETON JUNCTION ENGINEERING, P.C. PROFESSIONAL ENGINEERS AND LAND SURVEYORS

D. GEOFFREY BROWN, P.E., L.S. & P.P. FRANK J. FALCONE, L.S. & P.P. MARTIN D. KATZ, L.S.

KEVIN M. BRAKEL, P.E.

# Soils Testing Data Sheet Soil Log # Three

NORTH POST ROAD P.O. BOX 610 PRINCETON JUNCTION, NJ 08550

609.799.1906 FAX: 609.799.1524 EMAIL: PJEPC@PJEPC.COM

	143 Sou	Henry & Jane E. Landau th Lane Indsor, New Jersey 08550	Municipality West Windsor Township  Block 34  Lot 21
1.		nber <u>Three</u> (Check One): <u>X</u> Profile	le Pit Boring
2.	Soil Log Depth (incl Top-Botton	nes) Munsell Color Name a Estimated Volume %	and Symbol; Estimated Textural Class; Coarse Fragment (if present); ry Consistency; Mottling-Abundance, Size & Contrast (if present)
DEPTH	<u> </u>		<b>DESCRIPTION</b>
0" – 9"		10 YR 5/4	Heavy Sandy Loam; Moderate Medium Subangular Blocky; Moist Friable; Many Fine Roots; Abrupt, Smooth Boundary.
9" – 26"		10 YR 5/6	Sandy Clay Loam; 5% Mixed Gravel & Rounded Shale; Moderate Medium Subangular Blocky; Moist Firm to Friable; Few Fine Roots & Channels to 26"; Gradual, Smooth Boundary.
26" – 57"		10 YR 6/6	Fine/Medium Sandy Loam, 20 % Mixed Gravel & Rounded Shale; Common, Medium, Faint to Distinct 7.5YR 5/8 Mottles @ 26"; Weak Medium Subangular Blocky; Moist Friable & Saturated; Gradual, Smooth Boundary. Sample.
57" – 99"		2.5 Y 6/6	Sandy Clay to Sandy Clay Loam, 2 % Mixed Gravel & Rounded Shale, Many, Medium, Faint to Distinct 7.5YR 5/8 Mottles @ 57"; Moderate, Medium Subangular Blocky; Saturated; Gradual, Smooth Boundary. Sample.
99" – 123'	•	2.5 Y 5/4	Clay, 2 % Mixed Gravel & Rounded Shale, Many, Medium, Prominent 7.5YR 5/8 Mottles @ 99"; Massive; Moist Very Firm.
5. S.	Seepa Pit / B Soil Limi F F F F X F X R Soil Suita I hereby co aware of fo	alsification of data is a viole ect to penalties as prescribe	rer Hours:  priate Categories)  - Depth to Top - Depth to Top - Depth Top to Bottom  tum - Depth Top to Bottom  Depth Top to Bottom  Depth Top to Bottom  Depth Top to Bottom - Depth Top Age (Mottles)
5	Signature of	of Site Evaluator	Date <u>07/26/2021</u>
	Signature o	of Prof. Engineer	FFREY BROWN, PE & LS

AFFIX SEAL SoilLog3.doc



### Princeton Junction Engineering, P.C. **Professional Engineers and Land Surveyors**

Frank J. Falcone, L.S. & P.P. Kevin M. Brakel, P.E.

Soil Permeability Class Rating **Test Data for Existing Soil** 

North Post Road P.O. Box 610 Princeton Junction, NJ 08550 609.799.1906 Fax: 609.799.1524

Client:

Henry & Jane E. Landau

Location: 143 South Lane

Test No.: Two-26

Date Collected:

7/26/2021

Lot:

21

Block:

Township:

34 West Windsor

Replicate (letter): Date Tested:

A and B 8/2/2021

1.	Coarse Fragment Content:						
	Sample D	epth	26"				
	Total Wei	ght of Sample,	700.0				
	Weight of	Material Retain	ed on 2mm sieve, W.C.F., grams:		10	4.0	
	Wt.% Coa	rse Fragments	(W.C.F./W.T.) x 100:		14	.9%	
2.	Oven Dr	ry Weight:					
	40 gram A	ir Dry Sample (	24 hrs at 105°C), grams, Wt.:		39.2		
3.	Hydrom	eter Calibrati	on, Rc:		3.5		
4.	Hydrom	eter Reading			Α	В	
	40 Second	ds, Grams, R1:			10.5	10.5	
	Temperate	ure of Suspensi	on, °F:		74.0	74.0	
	Corrected	Hydrometer Re	ading, grams, R11:		8.2	8.2	
5.	Hydrome	eter Reading			Α	В	
	2 Hours, G	Frams, R2:	9.0	9.0			
	Temperatu	ure of Suspensi	on, °F:		72.0	72.0	
	Corrected	Hydrometer Re	6.3	6.3			
6.	A. % Sa	ınd =	39.2 - 8.2 / 39.2	x 100 =		79.1	
	B. % Sa	ınd =	39.2 - 8.2 / 39.2	100 =		79.1	
7.	A. % Cla	ay =	6.3 / 39.2 x 100 =	=		16.1	
	B. % Cla	ay =	6.3 / 39.2 x 100 =	=		16.1	
8.	Sieve Ar	alysis:	·		Α	В	
	A.	Oven Dry We	ight (2Hrs., 105°C) Total Sand Frac	ction	31.0	30.7	
		(Soil Retained	d in 0.045 mm sieve, grams:		31.0	30.7	
	B.	Weight of Fin	e plus Very Fine Sand Fraction (Sa	ind	2.7	3.1	
		Passing 0.25	nm sieve), grams:				
	C.	Percent Fine	plus Very Fine Sand (B / A)		8.7%	10.1%	
	Soil Morr	ohology		Moist Very Friable, Saturated			
9		neability Clas			(3 Sandy Loam		
10.	falsification	of data is a vio	ormation furnished on this application of the Water Pollution Control rescribed in N.J.A.C. 7:14-8.			hat	
Sign	ature of Si	te Evaluator:	Michael Ca	Onimera 3	Date:	8/2/2021	
Sign	ature of Pr	ofessional E	ngineer: D. Geoffrey	y Brown	NJP	PE&LS#:24327	



### Princeton Junction Engineering, P.C. **Professional Engineers and Land Surveyors**

Frank J. Falcone, L.S. & P.P. Martin D. Ketz, L.S. Kevin M. Brakel, P.E.

**Soil Permeability Class Rating Test Data for Existing Soil** 

North Post Road P.Q. Box 610 Princeton Junction, NJ 08550 609.799.1906 Fax: 609.799.1524

Client:

Henry & Jane E. Landau

Location: 143 South Lane

Test No.: Three-26

Date Collected:

7/26/2021

21

Block:

Township:

34 West Windsor

Replicate (letter): Date Tested:

A and B 8/2/2021

1.	Coarse Fragment Content:							
	Sample Depth					26"		
	Total Weig	ht of Sample,	600.0					
	Weight of	Material Retain	ed on 2mm sieve, W.C.I	F., grams:		95.0		
	Wt.% Coa	rse Fragments	(W.C.F./W.T.) x 100:			15	.8%	
2.	Oven Dr	y Weight:					-	
	40 gram A	ir Dry Sample (	24 hrs at 105°C), grams	, Wt.:		39.4		
3.	Hydrome	ter Calibrati	on, Rc:			3.5		
	Hydrome	ter Reading				Α	В	
	40 Second	s, Grams, R1:				12.0	12.0	
	Temperatu	re of Suspensi	on, °F:			74.0	74.0	
	Corrected	Hydrometer Re	ading, grams, R11:			9.7	9.7	
	Hydrome	ter Reading	:			Α	В	
	2 Hours, G	rams, R2:		11.5	11.5			
	Temperatu	re of Suspensi		72.0	72.0			
	Corrected I		ading, grams, R21:			8.8	8.8	
	A. % Sand = 39.4 - 9.7 / 39.				100 =		75.4	
	B. % Sa	nd =	39.4 - 9.7 /	39.4 x	100 =		75.4	
	A. % Cla	ıy =	8.8 / 39.4 x	100 =			22.3	
	B. % Cla	y =	8.8 / 39.4 x	100 =			22.3	
	Sieve An	alysis:				Α	В	
	A.	Oven Dry We	ight (2Hrs., 105°C) Total	Sand Fractio	n	31.5	31.7	
Į		(Soil Retained	in 0.045 mm sieve, gra	ms:		31.3	31.7	
	B.	Weight of Fin	e plus Very Fine Sand F	raction (Sand		2.4	2.0	
Į		Passing 0.25	nm sieve), grams:			2.4	2.0	
	C	Percent Fine	plus Very Fine Sand (B /		7.6%	6.3%		
	Soil Morp	hology		Moist Friable, Saturated				
_	Soil Perm	eability Clas	s Rating:	K3 Sandy Loam				
	falsification	of data is a vio	ormation furnished on the lation of the Water Pollu rescribed in N.J.A.C. 7:1	tion Control A	s true and acct (N.J.S.A. 5	curate. I am aware t 3:10A et seq.) and	hat	
gnat	ture of Sit	e Evaluator:		Michael Came	ra	Date:	8/2/2021	
gnat	ture of Pro	ofessional E	ngineer:	D. Geoffrey Br	J/)	NjF	PE&LS#:24327	



### Princeton Junction Engineering, P.C. **Professional Engineers and Land Surveyors**

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North Post Road P.O. Box 610 Princeton Junction, NJ 08550 609,799,1906 Fax: 609.799.1524

### Soil Permeability Class Rating **Test Data for Existing Soil**

Client:

Henry & Jane E. Landau

Location: 143 South Lane

Test No.: Three-57

Date Collected:

7/26/2021

Lot:

21

Block:

34

Township: Replicate (letter): West Windsor

Date Tested:

A and B 8/2/2021

1.	Coarse Fragment Content:							
ĺ	Sample D	Sample Depth					57"	
	Total Wei	ght of Sample,	W.T., grams:			900.0		
	Weight of	Material Retair	ed on 2mm sieve, W.C	C.F., grams:		166.0		
	Wt.% Coa	rse Fragments	(W.C.F./W.T.) x 100:			18	3.4%	
2.	Oven Dr	y Weight:						
	40 gram A	ir Dry Sample (	24 hrs at 105°C), gram	s, Wt.:		39.2		
3.	Hydrome	eter Calibrati	on, Rc:			3.5		
4.	Hydrome	eter Reading	<u>.                                    </u>			Α	В	
	40 Second	s, Grams, R1:				13.0	13.0	
	Temperatu	re of Suspensi	on, °F:			74.0	74.0	
	Corrected	Hydrometer Re	ading, grams, R11:			10.7	10.7	
5.	Hydrome	ter Reading				Α	В	
	2 Hours, G	rams, R2:	<u> </u>		12.0	11.0		
	Temperatu	re of Suspensi	on, °F:			72.0	72.0	
	Corrected I	<u>lydrometer</u> Re	ading, grams, R21:			9.3	8.3	
6.	A. % Sand = 39.2 - 10.7 /			39.2 x	100 =		72.7	
	B. % Sa	nd =	39.2 - 10.7 /	39.2 x	100 =		72.7	
7.	A. % Cla	y =	9.3 / 39.2 x	100 =			23.7	
	B. % Cla	y =	8.3 / 39.2 x	100 =			21.2	
3.	Sieve An	alysis:				Α	В	
	A.	Oven Dry We	ight (2Hrs., 105°C) Tot	al Sand Fraction	on	30.7	30.8	
		(Soil Retained	in 0.045 mm sieve, gr	ams:		50.7	30.8	
	B.	Weight of Fin	e plus Very Fine Sand		8.0	7.3		
		Passing 0.25r	mm sieve), grams:			7.5		
	C		olus Very Fine Sand (B	/ A)		26.1%	23.7%	
		hology				Saturated		
0.	Soil Permeability Class Rating: I hereby certify that the information furnished on this				K	3 Sandy Loam		
J.	falsification	of data is a vio	ormation furnished on t lation of the Water Poll rescribed in N.J.A.C. 7	ution Control A	is true and actic (N.J.S.A. 5	curate. I am aware t 8:10A et seq.) and	that	
3igna	ature of Site	e Evaluator:		Michael Came	era	Date:	8/2/2021	
Signa	ature of Pro	ofessional Er	ngineer:	D. Geoffrey B	rowin	NJF	PE&LS#:24327	