	Form 3C- Soi	Permeability Calss Rating Van Clee
Block: 116 Lot: 47		Job Number: 2001MNT engineering associat
Municipality: Mendham County: Morris		Client: Mortezai Date Collected: 2/25/2020
Sample Identification:	Soil Log 1.1	Depth =80"
Total Weigh	t of sample lined on 2 mm Sieve	= <u>493</u> = 121

(If above 75%, do not use this method)		
Wet Weight	<u></u>	40 g
Oven Dry Weight	**************************************	31 g
Hydrometer Calibration		<u> </u>
Rc	=	6
Temperature	· **	65 °F

Sample A			***************************************		
Hydrometer Rea	dings	1	rected Hydro	omete	eŕ
R1	=	16	R1'	=	9,4
R2	=	15.5	R2'	. 22	8.9
2 Hour	=:	10	2 Hour	=	3.4
Percent Sand		70.5 %			
Percent Clay	**	11.0 %			

Weight % Coarse Fragement

Sample B							
				Corrected Hydrometer readings			
R1	=	16		R1' =	9,4		
R2	Ė	16		R2' =	9.4		
2 Hour	=	10		2 Hour' =	3.4		
Percent Sand	==	69,7	%				
Percent Clay	=	11.0					

Sieve Analysis		Sample A	Sample B
Weight of dried soil (grams)	=	23	24
Weight of soil retained on 0.045 mm Sieve (No.325)	= .	7	8
Weight of soil relained on 0.25mm Sieve (No. 60)	□ □	16	16
% Fine Plus Very Fine Sand	= -	30.43%	33.33%
12.67 (4) 11 11 11 11 11 11 11 11 11 11 11			

If % Greater than 50%, adjust permeability class to the next slowest class

Sample A Class K3 **K**3 Sample B Class E2

I hereby certify that the information furnished on form 3C of this application is true and accurate. I am aware that falsification of this data is a violation of the Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and is subject to the penalities as prescribed in N.J.A.C. 7:14-8.

Signature of Professional Engineer

Multan K. J. L. Date:

nael K. Ford NJPE No. 34722 Michael K. Ford

Van Cleef Engineering Assoiclates

25%

Block:					Job Nun				IGINEERING ASS
Lot:		- · · · · · · · · · · · · · · · · · · ·					Mortez		
Municipality:					Date Colle	cted:	2/25/20	20	
County:	Morris								
Sample Ide	entification:	Soll L	og 1.3				. [Depth =	80"
	Total Weight of s	ample					= _	557	
	Weight Retained	on 2 mm	ı Sleve				=	103	
	Weight % Coarse (If above 75%, do not						=	18%	
	Wet Weight						=	40 (g
	Oven Dry Weight						= _	33 (9
Ну	drometer Calibra	tion					_		
	Re						= _	6	
	Temperature						=	65 '	'F
	Sample A								
	Hydrometer Rea	dings		Corre	cted Hydro	omet	er		
	@ 40 Sec.			readi	ngs				
	R1	=	15.5		R1'	=	8.9		
	R2	=	15.5		R2'	22	8.9		
	2 Hour	=	9.5		2 Hour	=	2,9		
	Percent Sand	=	73.0	%					
	Percent Clay	=	8.8						
	Sample B								
	Hydrometer Rea @ 40 Sec.	dings		Corre readi	cted Hydrongs	omet	ter		
	R1	Ė	16		R1' =		9.4		
	R2	=	15.5		R2' =		8.9		
	2 Hour	=	10		2 Hour'	=	3.4		
	Percent Sand	Ħ	72,3	%					
	Percent Clay	123	10.3	0/_					

ve maryoro		Ownibio 17	Adulta m
Weight of dried soil (grams)	=	26	25
Weight of soil retained on 0.045 mm Sieve (No.325)	= -	8	8
Weight of soil retained on 0.25mm Sieve (No. 60)	=	18	17
% Fine Plus Very Fine Sand	= -	30.77%	32.00%
If D. Denotarthan EAR adjust normaphility along to the	nout alai	in at alone	

If % Greater than 50%, adjust permeability class to the next slowest class

Sample A	Class	= ⊬	(3
Sample B	Class	= P	(3

I hereby certify that the information furnished on form 3C of this application is true and accurate. I am aware that falsification of this data is a violation of the Water Pollution Control Act

(N.J.S.A. 58:10A-1 et seq.) and is subject to the penalities as prescribed in N.J.A.C. 7:14-8.

Signature of Professional Engineer

Mullial K. Jal Date:
nael K. Ford NJPE No. 34722 Michael K. Ford

Van Cleef Engineering Associates

Form 3C-Soil Permeability Calss Rating

Block: 116
Lot: 47
Municipality: Mendham
County: Morris

Sample Identification: Soil Log 2.1

Job Number: 2001MNT ENGINEERING ASSOCIATES

Client: Mortezai
Date Collected: 2/25/2020

Depth = 80"

Total Weight of sample = 493

Weight Retained on 2 mm Sleve = 87

Weight % Coarse Fragement = 18%

(If above 75%, do not use this method)

Wet Weight = 40 g

Oven Dry Weight = 32 g

Hydrometer Calibration

Rc = 6

Temperature = 69 °F

Sample A						
Hydrometer Rea @ 40 Sec.	dings			ected Hydro Ings	omet	er
R1	==	16	<u> </u>	R1'	=	10.2
R2	=	16		R2'	=	10.2
2 Hour	=	10		2 Hour'	=	4,2
Percent Sand	æ	68.1	%			
Percent Clay	==	13.1				

				Corrected Hydrometer readings				
R1	=	16		R1' =	10.2			
R2	=	16		R2' =	10.2			
2 Hour	=	10		2 Hour' =	4.2			
Percent Sand	=	68.1	%					
Percent Clay	=	13.1	%					

Sieve Analysis

Weight of dried soil (grams)

Weight of soil retained on 0.045 mm Sieve (No.325)

Weight of soil retained on 0.25mm Sieve (No. 60)

Weight of soil retained on 0.25mm Sieve (No. 60)

Weight of soil retained on 0.25mm Sieve (No. 60)

Weight of soil retained on 0.25mm Sieve (No. 60)

Sample B

24

25

7

7

28.00%

If % Greater than 50%, adjust permeability class to the next slowest class

Sample A	Class	Ħ	K3
Sample B	Class	÷	К3

I hereby certify that the information furnished on form 3C of this application is true and accurate. I am aware that falsification of this data is a violation of the Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and is subject to the penalities as prescribed in N.J.A.G. 7:14-8.

Signature of Professional Engineer

Michael K. Ford NJPE No. 34722
Van Cleef Engineering Assolciates

Block: 116				Job Nu	nber:	20011	ant 😢 🕽 tan	M CALL CL
Lot: 47						Morte		
Municipality: Mendham			[Date Colle				
County: Morris						-		
Sample Identification:	Soil Lo	og 2.1				···	Depth =	80"
Total Weight of s	amole					=	587	
Weight Retained		Sieve				= •	102	-
Weight % Coars (If above 75%, do no	e Fragem	ent				= .	17%	•
Wet Weight						==	40	ğ
Oven Dry Weigh	t					= .	34	
Hydrometer Calibra						•		
Rc						· ==	6	
Temperature						å	.69	4E
Sample A								
Hydrometer Rea	adings		Correc	ted Hydr	omef	er		
@ 40 Sec.			readin	gs				
R1	=	16		R1'	=	10.2		
R2	#	16		R2'	=	10.2		
2 Hour	Ħ	10		2 Hour'	==	4.2		
Percent Sand	<u> 201</u>	70.0	%					
Percent Clay	=	12,4	%					
Sample B		······································						
Hydrometer Rea @ 40 Sec.	adings	3	Correct readin	ted Hydr gs	omei	er		
R1	=	16		R1'	=	10.2		
R2	222	16		R2'	=	10.2		
2 Hour	Ħ	10		2 Hour	=	4.2		
Percent Sand	=	70.0						
Percent Clay	***	12.4	%					
Sieve Analysis							Sample A	Sample B
Weight of dried :						=	25	24
Weight of soil re)	=	6	6
Weight of soil re			Sieve	(No. 60)		=	19	18
% Fine Plus Ver If % Greater that						= .	24.00%	25,00%

Sample A Class K3 K3 Sample B Class

I hereby certify that the information furnished on form 3C of this application is true and accurate. I am aware that falsification of this data is a violation of the Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and is subject to the penalities as prescribed in N.J.A.C. 7:14-8.

Signature of Professional Engineer

hudral K. In Date: NJPE No. 34722 Michael K. Ford

Van Cleef Engineering Assoiciates

		Form 3C- Soil	Permeability Calss	~		Van	Cleef
Block:	116		Job Number:	2001M	NT V		NG ASSOCIATES
Lot:			Client:	Mortez	aì		
Municipality:	Mendham		Date Collected:	2/25/20	20		*
County:				**************************************			
Sample Ide	entification:	Soil Log 3.1			Depth =	80'	·
	Total Weight o	f sample		=	70	01	
	Weight Retain	ed on 2 mm Sleve		=	12	24	

Weight % Coarse Fragement	=	18%
(If above 75%, do not use this method)	***************************************	
Wet Weight	aning proc	40 g
Oven Dry Weight	=======================================	35 g
Hydrometer Calibration		
Rc*	<u> ••••</u>	5.5
Temperature	***	69 °F

Hydrometer Readings			Corrected Hydrometer				
@ 40 Sec.		readings					
R1	-	15		R1'	=	9.7	
R2	m	15		R2'	==	9.7	
2 Hour		8.5		2 Hour	=	3.2	
Percent Sand	=	72.3	%				
Percent Clay	Ħ	9.1					

			Corrected Hydrometo readings		
R1	Ħ	15		R1¹ =	9.7
R2	=	15		R2' =	9.7
2 Hour	==	9		2 Hour' =	3.7
Percent Sand	=	72.3	%		
Percent Clay		10.6	%		

Sieve Analysis		Sample A	Sample B
Weight of dried soil (grams)	=	26	25
Weight of soil retained on 0.045 mm Sieve (No.325)	= -	6	6
Weight of soll retained on 0.25mm Sieve (No. 60)	= -	20	19
% Fine Plus Very Fine Sand	= -	23,08%	24.00%

If % Greater than 50%, adjust permeability class to the next slowest class

Sample A	Class	=	K3
Sample B	Class	=	K

I hereby certify that the information furnished on form 3C of this application is true and accurate. I am aware that falsification of this data is a violation of the Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and is subject to the penalities as prescribed in N.J.A.C. 7:14-8.

Signature of Professional Engineer

Mullial K. In Date: 3-4-25 ichael K. Ford NJPE No. 34722 Michael K. Ford

Van Cleef Engineering Assoiclates

Form 3C- Soil Permeability Calss Rating

		1 9111 30- 301	ri ethicability Cais.	2004MANT	Van Cle	ef
Block:	116		Job Number:	2001MNT	ENGINEERING ASSOC	
Lot:	47		Client:	Mortezai	1	
Municipality:	Mendham		Date Collected:	2/25/2020		
County:	Morris					
Sample Ide	entification:	Soil Log 3,1		Depth =	85"	
	Total Weight o	f sample		= 4	97	

Weight Retained on 2 mm Sieve	=	98
Weight % Coarse Fragement (If above 75%, do not use this method)	=	20%
Wet Weight	<u>=</u>	40 g
Oven Dry Weight	5	36 g
Hydrometer Calibration		
Ro		5.5
Temperature	=	69 °F

Sample A						
"			Corrected Hydrometer			
			readings			
R1	=	19.5	R1'	=	14.2	
R2	=	19	R2'	=	13.7	
2 Hour	=	10	2 Hour	=	4.7	
Percent Sand	=	61.3	%			
Percent Clay	=	13.1	%			

Sample B					
			Corrected Hydrometer readings		
R1	=	19	R1' =	13.7	
R2	==	19	R2' =	13.7	
2 Hour	=	10	2 Hour' =	4.7	
Percent Sand	==	61.9 %			
Percent Clay	=	13.1 %			

Sieve Analysis		Sample A	Sample B
Weight of dried soil (grams)	=	24	25
Weight of soil retained on 0.045 mm Sieve (No.325)	= -	.8	-8
Weight of soil retained on 0.25mm Sieve (No. 60)	= -	16	17
% Fine Plus Very Fine Sand		33,33%	32.00%
كداف والمعقدي والمعادي والمعاد		4 1	

If % Greater than 50%, adjust permeability class to the next slowest class

Sample A	Class	=	K
Samnle B	Class	=	K3

I hereby certify that the information furnished on form 3C of this application is true and accurate. I am aware that falsification of this data is a violation of the Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and is subject to the penalities as prescribed in N.J.A.C. 7:14-8.

	nal Engineer

Muchael K. Ford NJPE No. 34722 Van Cleef Engineering Assolciates

Form 3C-Soil Permeability Calss Rating

	7 5/11/ 50- 40/	Job Number: 2001MNT	Van Cleef
Block: 116		Job Number: 2001MNT	ENGINEERING ASSOCIATES
Lot: 47		Client: Mortezai	
Municipality: Mendham		Date Collected: 2/25/2020	
County: Morris			
Sample Identification:	Soil Log 4.1	Depth =	88"

Total Weight of sample	=	387
Weight Retained on 2 mm Sieve	=	45
Weight % Coarse Fragement (If above 75%, do not use this method)	=	12%
Wet Weight		40 g
Oven Dry Weight	and and	32 g
Hydrometer Calibration		
Re	<u>****</u>	5.5
Temperature	=	70 °F

Sample A						
7			Corrected Hydrometer readings			
R1	=	20	R1'	=	14,9	
R2	**	20	R2'	=	14.9	
2 Hour	=	10	2 Hour'	Ħ	4.9	
Percent Sand	=	53.4 %				
Percent Clay	=	15.3 %				

			Corrected Hydrometer readings			
R1		20		R1' =	14.9	
R2	=	20		R2' =	14.9	
2 Hour	=	10		2 Hour' =	4.9	
Percent Sand	=	53.4	%			
Percent Clay	111	15,3	%			

Sieve Analysis		Sample A	Sample B
Weight of dried soil (grams)	=	26	26
Weight of soil retained on 0.045 mm Sieve (No.325)	= -	14	14
Weight of soil retained on 0.25mm Sieve (No. 60)	= 7	12	12
% Fine Plus Very Fine Sand	= -	53,85%	53,85%
If % Greater than 50%, adjust permeability class to the	next slo	west class	

Sample A Class = K2

Sample B Class = K2
I hereby certify that the information furnished on form 3C of this application is true and accurate. I am aware that falsification of this data is a violation of the Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and is subject to the penalities as prescribed in N.J.A.C. 7:14-8.

Signature of Professional Engineer

Michael K. Ford NJPE No. 34722

Van Cleef Engineering Assolciates

Block:	116				Job Nun	ıber:	2001M	NT WEN	GINEERING ASSO
Lot:					C	lient:	Mortez	aí	
Aunicipality:	Mendham				Date Colle	cted:	2/25/20	120	
County:									
Sample Ide	entification:	Soil La	g 4.3A					Depth =	80"
	menta al GRI de Fago e la ella ella							ĖDA	
	Total Weight of s	,	o Otania				= -	501	
	Weight Retained						= _	78	
	Weight % Coarse (If above 75%, do no						<u></u>	16%	
	Wet Weight						=	40 g	!
	Oven Dry Weigh	Į,					= -	35 g	
Hy	drometer Calibra								•
•	Rc						=	5.5	
	Temperature		•				= -	70 °	F
	Sample A								
	Hydrometer Rea	adings		Corr	ected Hydro	ome	ter		
	@ 40 Sec.			read	ings.				
	R1	=	15.5		R1'	Ħ	10.4		
	R2	=	15.5		R2'	=	10.4		
	2 Hour	=	9.5		2 Hour	<u>'</u> =	4.4		
	Percent Sand	=	70.3	%					
	Percent Clay	=	12.6	%					
	Sample B			·					
	Hydrometer Rea @ 40 Sec.	adings		Corr read	ected Hydro ings	ome	ter		
	R1	=	16		R1' :	=	10.9		
	R2	=	16		R2' :	=	10.9		
	2 Hour	==	10		2 Hour'	=	4,9		
	Percent Sand	=	68.9	%					
	Percent Clay		14.0	%					
Sieve A	nalvsis							Sample A	Sample B
Oloth U	Weight of dried	soil (gran	is)				=	31	30
	Weight of soil re			ım Sia	ave /No 325	١.	= -	13	13

If % Greater than b	50%, adjust	l permeability	class to the	e next slowest	class

Sample A Class K3 K3 Sample B Class

I hereby certify that the information furnished on form 3C of this application is true and accurate. I am aware that falsification of this data is a violation of the Water Pollution Control Act

(N.J.S.A, 58:10A-1 et seq.) and is subject to the penalities as prescribed in N.J.A.C. 7:14-8.

Weight of soil retained on 0.25mm Sieve (No. 60)

% Fine Plus Very Fine Sand

Signature of Professional Engineer

Michael K. Ford NJPE No. 34722 Michael K. Ford

Van Cleef Engineering Assoiciates

18 41.94%

43,33%

Form 3C. Soil Permeability Cales Pating

	POINT SUF SUI	remeability Calss Rating	_1	Van	Cleef
Black: 116		Job Number: 2001MN	т 🤍 🗸 /		NG ASSOCIATES
Lot: 47		Client: Morteza			
Municipality: Mendham		Date Collected: 2/25/202	.0		
County: Morris		WATER-000-04-7			
Sample Identification:	Soil Log 5.1A	De	epth =	80"	
Total Majahi	of comple	_		97	

rotat vveight of sample	=	<u>.437</u>
Weight Retained on 2 mm Sieve	: 57.	102
Weight % Coarse Fragement (If above 75%, do not use this method)	=	23%
Wet Weight	=	40 g
Oven Dry Weight	=	35 g
Hydrometer Calibration		**************************************
Rc	=	5.5
Temperature		70 °F

Sample A						
1			Corrected Hydrometer readings			
R1	=	16		R1'	==	10,9
R2	***	16		R2'	=	10,9
2 Hour	=	10		2 Hour	=	4.9
Percent Sand	=	68.9	%			
Percent Clay	=	14.0	%			

Sample B	31		1		
			Corrected Hydrometer readings		
R1)	16		R1' =	10.9
R2	=	16		R2' =	10.9
2 Hour	=	10		2 Hour =	4.9
Percent Sand	=	68.9	%		
Percent Clay	=	14.0	%		

Sieve Analysis		Sample A	Sample B
Weight of dried soil (grams)	==	28	29
Weight of soil retained on 0.045 mm Sieve (No.325)	=	11	12
Weight of soil retained on 0.25mm Sieve (No. 60)	= -	17	17
% Fine Plus Very Fine Sand	==	39.29%	41.38%
150% Open to without 500% addition to any and the salary to the			

If % Greater than 50%, adjust permeability class to the next slowest class

Sample A Class K3 Sample B Class K3

I hereby certify that the information furnished on form 3C of this application is true and accurate. I am aware that falsification of this data is a violation of the Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and is subject to the penalities as prescribed in N.J.A.C. 7:14-8.

Signature of Professional Engineer

Mclad K-7 & Date: 3.4-25 chael K. Ford NJPE No. 34722

Michael K. Ford

Van Cleef Engineering Assoiclates

Form 3C-Soil Permeability Calss Rating

		Form 3C- 501	i Permeability Calss	Rating (Van Cle
Block:	116		Job Number:	2001MNT	ENGINEERING ASSO
Lot:	47		Client:	Mortezai	
Municipality:	Mendham		Dale Collected:	2/25/2020	
County:	Morris				
Sample Ide	entification:	Soil Log 5.2		Depth =	.80''

Weight Retained on 2 mm Sieve	=	<u>112</u>
Weight % Coarse Fragement (If above 75%, do not use this method)	=	25%
Wet Weight	=	40 g
Oven Dry Weight	=	36 g
Hydrometer Calibration		
Ro	<u></u>	5.5
Temperature	=	70 °F

Sample A									
"			Corrected Hydrometer						
			readings	1gs					
R1	F	16	R1'	==	10.9				
R2	=	16.5	R2'	=	11.4				
2 Hour	눖	10	2 Hour'	=	4.9				
Percent Sand	=	69.0	%						
Percent Clay	Ħ	13.6	%						

Total Weight of sample

Sample B								
			Corrected Hydrometer readings					
R1	⇒	16	R1' =	10.9				
R2	==	16	R2! =	10.9				
2 Hour	E	10	2 Hour' =	4.9				
Percent Sand	=	69.7	%					
Percent Clay	=	13.6	%					

Sieve Analysis		Sample A	Sample B
Weight of dried soil (grams)	=	28	28
Weight of soil retained on 0.045 mm Sieve (No.325)	= -	10	10
Weight of soil retained on 0.25mm Sieve (No. 60)	= -	18	18
% Fine Plus Very Fine Sand	=	35.71%	35.71%
the second of th	**		

If % Greater than 50%, adjust permeability class to the next slowest class

Sample A Class = K3 Sample B Class = K3

I hereby certify that the information furnished on form 3C of this application is true and accurate. I am aware that falsification of this data is a violation of the Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and is subject to the penalities as prescribed in N.J.A.C. 7:14-8.

Signature of Professional Engineer

Michael K. Ford NJPE No. 34722

Van Cleef Engineering Assoiciates

Block:				Job Numbe			NGINEERING ASSO
Lot:					nt: Mortez		
lunicipality:				Date Collecte	d: <u>2/25/20</u>)20	
County:	MONIS						
Sample Ide	entification:	Soil Lo	g 6,1			Depth =	80"
	Total Weight of s	ample.			=	427	
	Weight Retained	on 2 mm	Sieve		=	99	
	Weight % Coarse (If above 75%, do not				= _	23%	
	Wet Weight				÷	40	g
	Oven Dry Weight				-=	34	.77
Hye	drometer Calibrat	tion			-		· ·
	Rc.				= _	5.5	
	Temperature				= -	70	°F
	Sample A						
	Hydrometer Rea	dings	Corr	ected Hydrom	eter		
	@ 40 Sec.		read	ings			
	R1	=	18	R1' =	12.9		
	R2	=	18	R2' ≈	12.9		
	2 Hour	=	11	2 Hour' =	5.9		
	Percent Sand Percent Clay	=======================================	62.1 % 17.4 %				
	Sample B	~~~~					
	Hydrometer Rea @ 40 Sec.	dings	Corr read	ected Hydrom Ings	eter		
	R1	=	18	R1' ≃	12.9		
	R2	=	18.5	R2' =	13.4		
	2 Hour		11	2 Hour' ⊨	5.9		
	Percent Sand	=	61.3 %				
	Percent Clay	Ħ	17.4 %				
Sieve A	nalysis					Sample A	Sample B
	Weight of dried s				=_	25	26
	Weight of soil ret				= -	9	10
	Weight of soil ret	ained on ().25mm Siev	e (No. 60)	= _	16	16
	% Fine Plus Very If % Greater than			interior and the second	= -	36,00%	38.46%

Sample A Class **K**3 Sample B Class K3

I hereby certify that the information furnished on form 3C of this application is true and accurate. I am aware that falsification of this data is a violation of the Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and is subject to the penalities as prescribed in N.J.A.C. 7:14-8.

Signature of Professional Engineer

Muchal K. Ind Date:

Michael K. Ford

NJPE No. 34722

Van Cleef Engineering Associates

		Form 3G- Soil	Permeability Cals:	S Rating	Van Cle
Block:	116		Job Number:	2001MNT	ENGINEERING ASSOCIA
Lot:	47		Client:	Mortezai	
Municipality:	Mendham		Date Collected:	2/25/2020	
County:					
Sample Ide	ntification:	Soil Log 6.2A		Depth =	80"
	Total Weight o	of sample		=	502

Weight % Coarse Fragement (If above 75%, do not use this method)	⊭	28%
·Wet Weight	MAA.	40 g
Oven Dry Weight	=	36 g
Hydrometer Calibration		
Ro	=	5.5
Temperature	· Sinna graph	70 °F

Sample A										
Hydrometer Readings @ 40 Sec.			Corrected Hydrometer							
			readings							
R1	<u></u>	16.5	R1'	==	11.4					
R2	=	17	R2'	=	11.9					
2 Hour	=	10	2 Hour'	=	4.9					
Percent Sand	=	67.6 %								
Percent Clay	=	13.6 %								

Weight Retained on 2 mm Sieve

Sample B									
			Corrected Hydrometer readings						
R1	=	17	R1' =	11.9					
R2	=	17	R2' =	11.9					
2 Hour	=	10	2 Hour' =	4.9					
Percent Sand	=	66.9	%						
Percent Clay	=	13.6	%						

Sieve Analysis		Sample A	Sample B
Weight of dried soil (grams)	=	28	28
Weight of soil retained on 0.045 mm Sieve (No.325)	= -	11	10
Weight of soil retained on 0.25mm Sieve (No. 60)	= -	17	18
% Fine Plus Very Fine Sand	==	39.29%	35.71%
the second secon	. , -		

If % Greater than 50%, adjust permeability class to the next slowest class

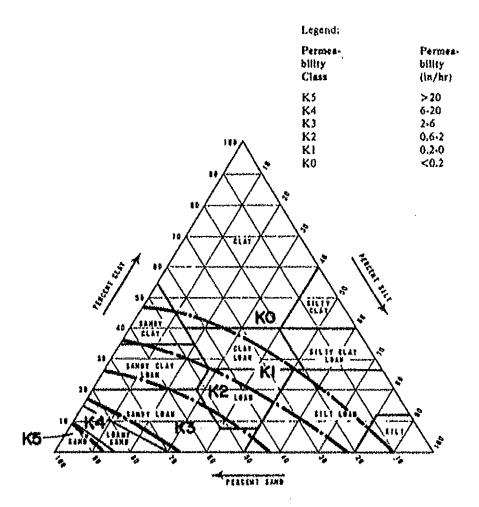
Sample A	Class	=	K3
Sample B	Class	=	K3

I hereby certify that the information furnished on form 3C of this application is true and accurate. I am aware that falsification of this data is a violation of the Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and is subject to the penalities as prescribed in N.J.A.C. 7:14-8.

Signature	of Pi	nfacein	nal Fi	mineer
∞ onaune	3 (OL 12)	UNUSSIO	111711	muneer.

Milialk Gid Date: 3-4-20 Michael K. Ford NJPE No. 34722

139



Adapted from N.N. Hantzsche et al. (1982) Soil Textural Analysis for Onsite Sewage Disposal livaluation, Proc. 3rd Nat. Symposium on Individual and Small Community Sewage Treatment, Am. Soc. Agric. Eng., St. Joseph, Michigan

Figure 6. Soil Permeability/Textural Triangle



Form 3b. Tube Permeameter Test Data

Block: 116		Job Number:				
Lot: 47			Mortezal			
Municipality: Mendham	D	ate Collected:	2/25/2020			
County: Morris						
Sample Identification:	Rain Garden		÷			
Material Tested:	Native Soll	<u></u>	Depth =	24"	.	
Type of Sample:	Undisturbed	X	_Disturbed <u>Replic</u>	nafa.		
			<u>A</u>	<u>B</u>		
Sample Dimensions:	Inside radius of Sample Tub	e, R, in cm. =		2,38		
•	Length of Samp			4.50	- -	
Bulk density determination	n (Disturbed Samples Only)	A	<u>B</u>			
	Sample Weight, grams		250			
Sample Vo	olume, Cubic centimeters (cc) =		203	****		
	Bulk Density, grams/cc :	= 1.24	1.23			
Standpipe Used:	No XX	_Yes, Interna	l Radius, r , in cr	n. =	0.476 (3/8" ID)	<u>B</u> 0.476 (3/8" ID)
Height of water level, in i	hches:	<u>A</u>	<u>B</u>		(3/0 10)	(370 10)
	nning of each test interval, H1 :		17.00			
	e end of each test interval, H2		12.00			
Mata wetthinkaak as in Maa						
Rate of Water Level Dro Replicate			Replicate B			
	n Length of test	Time for	11000000000	Length of te	sť	
Water Drop	(minutes) t	Water Drop	i	(minutes)		
5	2,850	5		3.214		
5	2,933	5	-	3.347	- 	
5	3,012	5	-	3,521	- -	
Calculation of Permeabil	ity:	<u>À</u>		В		
K = 60	x (L/t) x (r2/R2) x Ln (H1/H2)	= <u>1.3</u>	_in/hr	1.1	_in/hr	
Defects in Sample:						
XX None	Cracks	ς.		Worm Cha	annels	
Large Gra				Root Chai		
Dry soil	Smear		(Compaction		
Soil/Tube		.		Other		
I am aware that falsificat	nformation furnished on form 3 ion of this data is a violation of q.) and is subject to the penali	the Water Po	llution Control Ac	át		
Signature of Professions	al Engineer Muchael	k-re	Date	e; <u>3</u> .4.3	ro	-a

Michael K. Ford NJPE No. 34722