## TUBE PERMEAMETER TEST #1 (From Profile Pit #1) BLOCK 3405, LOTS 5 & 6; MULLICA TOWNSHIP; ATLANTIC CO.

1	Test No.		1	Replicate (	letter)	Δ	Date Collected		9/5/23
2		aterial Tested Fill Native Soil Test- depth							112"
3		ype of sample: Undisturbed XX Disturbed							
4	Sample dimensions: Inside radius of sample tube, R (cm)								
7									5.00
5	Bulk density determination (disturbed samples only):								
Ü	Sample weight (grams) 765								
							578.866	_	
	Bulk density (Sample weight/Sample volume)						1.321549374		
6	Standpipe	Yes			N	<u> </u>			
	Indicate Internal Radius								
7	Height of water above rim of test basin, inche Refer to following table								
	At the beginning of each test interval,H1 Refer to following						_		
						Refer to following table			
			Rat	e of water	rlevel	drop		_	
			Time	e, Start	Time,	End	Length of Test		
	H1	H2	of	Test	of To	est	Interval, T,		
	(in)	(in)	Interva	I, T1 (min) I	nterval,	T2 (mi	minutes		
Test 1	5.50	5.00	0.00		6.50		6.50		
Test 2	5.50	4.75	0.00		11.00		11.00		
Test 3	5.50	4.50	0.00		26.00		26.00		
Test 4	5.75	5.00	0.00		9.44		9.44		
Test 5	5.75	4.75	0.00		12.80		12.80		
8	Calculatio	on of Permeal	sility:						
U	K, (in/hr)=		-	r*l (in)/T(mir	\\*I n /∐′	1/42\			
	K1 (in/hr)=		60 min/hr*L(in)/T(mii 4.399		K3		Permeability Clas	2	
	K2 (in/hr)=		3.998		K3		Permeability Clas		
	K3 (in/hr)=				K3		Soil Permeability Class		
	K4 (in/hr)=		4.442		K3		Permeability Class		
	K4 (in/hr)=		4.478		K3		Permeability Clas		
	111 (111/111)	SLOWEST	2.315		K3	001	omity olde		
9 I hereby certify that the information furnished on this form is true and accurate.									
Simultar 2									
Signature of Soil Evaluator  Date 9/5/2							9/5/23		
Signature of Professional Engineer Lic. #									

ACT ENGINEERS, INC. 320 S. Shore Road, Suite D Marmora, NJ 08223

## TUBE PERMEAMETER TEST #2 (From Profile Pit #2) BLOCK 3405, LOTS 5 & 6; MULLICA TOWNSHIP; ATLANTIC CO.

1	Test No.	<u>-</u>	1	_Replicate (	•		Date Collected	9/5/23		
2	Material Te	ested		_Fill		Soil Te	st- depth	72"		
3	Type of sa	mple:		Undisturbe	d	XX	Disturbed			
4	Sample dimensions: Inside radius of sample tube, R (cm)									
	Length of s	sample, L (inc	hes)					5.00		
5	Bulk density determination (disturbed samples only):									
	Sample weight (grams) 720 Sample volume (L x 2.54 cm/in. x (3.14r2) 578.866									
	-	lume (L x 2.54								
		• •	eight/Sample volume) 1.2438111							
6	Standpipe				Yes		X	No		
		ternal Radius								
7	Height of water above rim of test basin, inche Refer to following table									
	At the beginning of each test interval,H1 Refer to following table									
	At the end of each test interval H2 Refer to following table									
				e of water				•		
				e, Start	Time,		Length of Test			
	H1	H2		Test	of T		Interval, T,			
	(in)	(in)		<u>I, T1 (min) I</u>		T2 (mi				
Test 1	5.50	5.00	0.00		7.20		7.20			
Test 2	5.50	4.50	0.00		18.00		18.00			
Test 3	5.50	5.25	0.00		4.00		4.00			
Test 4	5.75	4.75	0.00		16.70		16.70			
Test 5	5.75	4.75	0.00		17.50		17.50			
8	Calculatio	n of Permeak	silitse:							
O			-	r*l (in)/T(min	\\*I n /H	1/42)				
	K, (in/hr)= 60 min/hr*L(in)/T(min)*Ln (H1/H2) K1 (in/hr)= 3.971 K3 Soil Permeability Class						2			
	K1 (in/hr)=		3.345		K3		Permeability Class			
	K3 (in/hr)=		3.489		K3		Permeability Class			
	K4 (in/hr)=		3.432		K3		Permeability Class			
	K4 (in/hr)=		3.275		K3		Permeability Class			
		SLOWEST	3.275		K3	OOII I	ormoubling oldes	,		
9	I hereby cer	tify that the info		urnished on t		is true a	and accurate.			
-	,	,								
Campta D.										
Signatu	ire of Soil E	valuator		Sunettal			Date	9/5/23		
Signature of Professional Engineer Lic. #										