

Soil Testing Laboratory Rutgers, The State University 57 US Highway 1 South New Brunswick, NJ 08901-8554

Soil Permeability Class Rating Report Lab #: 2021-95030

Name: EKA Associates - Quinn

Date Received: 2021-10-07

Thomas Quinn

Date Reported: 2021-10-13

Address: 328 Park Avenue

Scotch Plains, NJ 07076

Phone: (908)322-2030

Email: tquinn@ekaassociates.com

Sample ID: Martin SL-1/EKA#844981/Lot5 Block 285 Cranford NJ

Coarse Fragment Content

Coarse rragment Content		
Total weight of Sample	W.T.	197.3 g
Weight of material retained on #10 siev	ve W.C.F	6.4 g
Weight Percent of coarse fragments	(W.C.F./W.T.) x 100	3.2 %
Soil Textural Analysis (Mechanic	cal Analysis)	
Oven dry weight	Wt.	50.0 g
Hydrometer calibration	Rc	5.0 g/L
Hydrometer reading, 40seconds	R1	17.0 g/L
Temperature of suspension, 40s	T1	22.6 °C

	· 	22.0	C
		72.7	٥F
Corrected hydrometer reading, 40s	R1'=[(T1-68)*0.2]+(R1-Rc)	12.9	g/L
Hydrometer reading, 2hours	R2	10.0	g/L
Temperature of suspension, 2hours	T2	22.4	
		72.3	٥F
Corrected hydrometer reading, 2hours	R2'=[(T2-68)*0.2]+(R2-Rc)	5.9	g/L
	2 , 3 (<i>3,</i> –
Sand	((WtR1')/Wt.)*100	74.1	%

Sand	((WtR1')/Wt.)*100	74.1	%
Silt	((R1'-R2')/Wt.)*100	14.1	%
Clay	(R2'/Wt.)*100	11.7	%

Sieve Analysis

Sand oven-dry weight	a	128.9 g
Fine+Very fine sand fraction weight	b	86.5 g
Percent Fine+Very fine sand	(b/a)*100	67.1 %

Estimated K value

2 Estimated permeability = 0.6-2 in/h

Estimated permeability has been adjusted, if necessary, to consider fine + very fine sand fractions. Soil structure and consistence, as determined during sampling, must also be considered to further adjust estimated permeability.

EKA ASSOCIATES, P.A.

Engineers • Surveyors • Planners 328 PARK AVENUE SCOTCH PLAINS, NEW JERSEY 07076 (908) 322-2030

JOB	844981-	116	GARDENST
SHEET NO.		OF	
CALCULATED BY_	T4	DATE.	2/22/26
CHECKED BY		DATE.	

SCALE
DRYWELL DREW DOWN CALCULATION
BASED ON PUTBERS SPER TEST
30/L /L VALUE = 12-2
ESTIMATED PERMICABILITY = 0.6-2,0 in/11
DRYWELL DEPTH = 4,5 = 54"
355 AVERAGIO PARAGERENTO GENTE OF 1311/hi
DRAW DOWN TIME = 54/h = 41.5 hrs 4 72 hrs 1, of

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Engineers • Surveyors • Planners 328 Park Avenue SCOTCH PLAINS, NEW JERSEY 07076 (908) 322-2030 SHEET NO. OF DATE 9/8/2/

(908) 322-2030	SOME PUCT H 8 44 981
EL. 1005 EXISTING (31)	
50001 50004 5167 MOIST, BLOC MOTTLED	19 18 113 H
64-99.3 51-7-4.00 131/30/30.00 131/30/30.00 131/30/30.00 131/30/30.00 131/30/30.00 131/30/30.00 131/30/30.00 131/30/30.00 131/30/30.00 131/30/30.00 131/30/30.00 131/30/30.00 131/30/30.00 131/30/30.00 131/30/30.00 131/30/30.00 131/30/30.00 131/30/30/30.00 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30/30 131/30/30 131/30/30 131/30/30 131/30/30 131/30/30 131/30/30 131/30/30 131/30/30 131/30/30 131/30/30 131/30/30 131/30/30 131/30/30 131/30/30 131/30/30 131/30/30 131/30/30 131/30/30 131/30/30/30 131/30/30 131/30/30 131/30/30 131/30/30 131/30/30 131/30/30 131/30/30 131/30/30 131/30/30 131/30/30 131/30/30 131/30/30 131/30/30 131/30/30 131/30/30 131/30/30 131/30/30 131/30/30 131/30/30 131/30/30 131/30/30 131/30/30 131/30 131/30 131/30 131/30 131/30 131/30 131/30 131/30 131/30 131/30 131/30 131/30 131/30 131/30 131/30 131/30 131/30 131/30 131/30 131/30 131/30 131/30 131/30 131/30 131/30 131/30 131/30 131/30 131/30 131/30 131/30 131/30 131/30 131/30 131/30 131/30 131/30 131/30 131/30 131/30 131/30 131/30 131/30 131/30 131/30 131/30 131/30 131/30 131/30 131/30 1	4 LITTLE SAND 25 / 3/3 LI PLESIR CTIVE
	HED WISTER MENUS EL 94,3