

TEST DATA

12

NAME <u>Smith Property</u>	FILE NO _____
LOCATION <u>Rt. 94</u>	COUNTY <u>Howard</u>
<u>Tax Map: 7 Pcl 133</u>	DATE <u>3/28/00</u>
RECORDED BY <u>Steven R. Krieg / ALM</u>	GRID _____ E N

HOLE NO.	TEST NO.	DEPTH	CLOCK TIME	ELAPSED TIME	MEASUREMENT	REMARKS (Method, Moisture, Biopores)
	19	2'	10:20	-	7	Pour
			10:37	17	6 ⁹ / ₁₆	³ / ₁₆ 17 .438 = 38
			10:52	15	6 ⁴ / ₁₆	³ / ₁₆ 15 .313 = 48
			11:07	15	5 ¹⁵ / ₁₆	² / ₁₆ 15 .313 = 48
			11:22	15	5 ⁹ / ₁₆	⁶ / ₁₆ 15 .375 = 40
			11:40	18	5 ⁴ / ₁₆	² / ₁₆ 15 .313 = 48
						40 min (OK)
	21	2'	10:24	-	7	Pour
			10:38	14	4 ⁷ / ₁₆	² / ₁₆ 14 2.563 = 5
			10:39	-	7	Repour
			10:54	15	4 ¹² / ₁₆	³ / ₁₆ 15 2.875 = 5
			11:09	15	2 ⁶ / ₁₆	² / ₁₆ 15 2.375 = 6
			11:11	-	7	Repour
			11:26	15	4 ⁹ / ₁₆	² / ₁₆ 15 2.688 = 5
			11:41	15	2 ⁴ / ₁₆	² / ₁₆ 15 2.25 = 6
			11:50	-	7	Repour
			12:05	15	4 ⁸ / ₁₆	² / ₁₆ 15 2.5 = 6
			12:25	15	1 ¹ / ₁₆	³ / ₁₆ 15 3.438 = 4
			12:30	-	7	Repour
			12:45	15	4 ⁷ / ₁₆	² / ₁₆ 15 2.813 = 5
			1:00	15	4 ¹² / ₁₆	² / ₁₆ 15 2.438 = 6
				15	2 ⁷ / ₁₆	
				15	1.0	6 min (OK)

TEST DATA

NAME Smith Property FILE NO _____
 LOCATION Rt 94 COUNTY Howard
Tax Map: 7 Pcl: 133 DATE 3/28/00
 GRID _____ E _____
 RECORDED BY Amy McMillen / Steve Krieg N _____

HOLE NO.	TEST NO.	DEPTH	CLOCK TIME	ELAPSED TIME (min.)	MEASUREMENT (Inches)	REMARKS (Method, Moisture, Biopores)
22	22	1' 8"	10:10	-	7.0	Pour
			10:18	8	6 5/16	1 1/16 8 1.688 = 11
			10:32	14	5 4/16	1 1/16 14 1.063 = 13
			10:33	-	7.	Repair
			10:48	15	5 15/16	1 1/16 15 1.063 = 14
			10:58	10	5 4/16	1 1/16 10 1.688 = 14
			11:08	10	4 9/16	1 1/16 10 1.688 = 14
20	24"	10:15	-	7.0	Pour	
		10:25	10	5 10/16	1 1/16 10 1.375 = 7	
		10:34	9	4 11/16	1 5/16 9 1.938 = 9	
		10:35	-	7.0	Repair	
		10:50	15	5 4/16	1 12/16 15 1.75 = 8	
		11:01	11	3 14/16	1 6/16 11 1.375 = 8	
		11:24	-	11 2/16	Repair	
		11:39	15	8 10/16	2 8/16 15 2.5 = 6	
		11:54	15	6 10/16	2 15 2 = 7	
		12:07	13	4 15/16	1 1/16 13 1.688 = 8	
		12:22	15	3 4/16	1 1/16 15 1.688 = 8	
		12:37	15	1 9/16	1 1/16 15 1.688 = 8	
					8 min OK	

→ 60 in test

LAUREL SAND & GRAVEL, INC. T/A
S.W. Barrick & Sons

**Barrick Quarry**

Address: P.O. Box 88
 Woodsboro, MD 21798

Sales Office: (301) 845-6341

Fax Number: (301) 845-2396

Orders & Dispatch: (301) 845-6343

Toll Free: (800) 548-6343

Finksburg Terminal

Address: 2700 Emory Road

Finksburg, MD 21048

Sales /Dispatch: (410) 833-4400

Fax Number: (410) 833-4909

September 25, 2009

Freedom Septic Service, Inc.
 2809 Liberty Road
 Sykesville, MD 21784

Attn: Bruce Bopst

Re: Material Certification
 Sand Mound Sand
 Howard County Projects

Gentlemen:

This letter certifies that the Sand Mound Sand (natural washed Concrete Sand), shipped by S.W. Barrick & Sons through our Woodsboro facility, meets the material specifications for ASTM C-33, the Maryland Department of Transportation - State Highway Administration - Standard Specifications For Construction And Materials - Section 901, and the requirements for the "Wisconsin Mound Soil Absorption System: Siting, Design, and Construction Manual, January 2000."

The following sieve analysis is an average gradation of our Sand Mound Sand.

Sieve Size	Percent Passing	ASTM C-33 Specifications
3/8"	100.0	100
No. 4	97.9	95-100
No. 8	83.0	80-100
No. 16	67.4	50-85
No. 30	51.9	25-60
No. 50	27.1	5-30
No. 100	5.0	0-10
No. 200	0.7	

Uniformity Coefficient (CU) = 4.49

Effective Size = 0.185 mm

Note: Specifications for CU (4 - 6) and Effective Size (0.15 - 0.30 mm) are presented in "Wisconsin Mound Soil Absorption System: Siting, Design, and Construction Manual, January 2000."

Thank you for your interest in our products. If you have any questions or require additional information, please contact the lab at 301-845-6302, or Jerry Blank at 301-845-6341.

Sincerely,

David Olson
 Quality Control Manager