

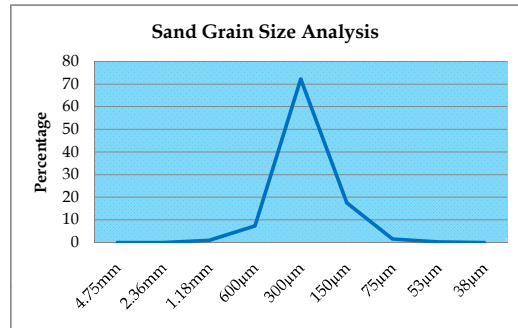
Chicora Foundation Gas Displacement Mortar Analysis Data Sheet

Name: Sloped area, top GAR monument **Sample No.:** 2008-2
Date: 3/14/08 **Origin of Sample:** Chalmette, LA; GAR monument; sloped area on top of monument

Visual Description of sample (color, texture, hardness, inclusions, etc.):
 Light grey color; medium hardness; some large inclusions obvious to the eye, but mostly small inclusions; slightly rough texture.

Mortar Analysis

Original weight of powdered sample (in g)	6.49
Weight of filter paper (in g)	0.93
Weight of filter paper + dry fines (in g)	1.40
Weight dry fines (in g)	0.47
Weight of dry sand (in g)	3.93
Gas Displacement (in ml)	165.00
Weight of lime (in g)	0.74
% of sand	60.55
% of fines	7.24
% of lime	11.42
% of acid solubles	20.78



Observations (dissolution of binder, color of liquid, reaction):
 Immediate, aggressive reaction; liquid turns yellow; binder dissolved quickly.

Characterization of Sand:

			wt (gm)	%
Microscopic Examination: sub-rounded to rounded, clear quartz inclusions.	wt. % finer than	4.75mm	0.00	0
		2.36mm	0.00	0
		1.18mm	0.04	1.017812
		600μm	0.29	7.379135
		300μm	2.84	72.26463
		150μm	0.69	17.55725
		75μm	0.06	1.526718
		53μm	0.01	0.254453
		38μm	0.00	0
		Total sand weight		3.93

Munsell Color(s) of Sand: primarily 10YR8/1, white; several 5YR6/4 light reddish brown inclusions