



## Resource Materials Testing, Inc.

*"Specialists in Fly Ash Testing"*

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### REPORT OF STABILIZER ANALYSIS

TO: Ash Grove Resources, LLC  
Attn: Mr. Brady Pryor  
5375 SW 7<sup>th</sup> Street, Suite 400  
Topeka, KS 66606-2552

PROJECT NO. RMT-467  
SAMPLE NO. 17271  
DATE REC.: 11-06-09  
DATE REP.: 01-05-10

PROJECT NAME: Chanute Ash Grove Durabase® CKD Quality Assurance  
SAMPLE ID: Chanute Ash Grove Durabase® CKD

#### CHEMICAL ANALYSIS, ignited basis, wt%:                      RESULTS:

Silicon Dioxide, SiO <sub>2</sub>	18.61
Aluminum Oxide, Al <sub>2</sub> O <sub>3</sub>	5.06
Iron Oxide, Fe <sub>2</sub> O <sub>3</sub>	3.95
Sum of SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> & Fe <sub>2</sub> O <sub>3</sub>	27.62
Calcium Oxide, CaO	64.96
Magnesium Oxide, MgO	2.14
Sodium Oxide, Na <sub>2</sub> O	0.58
Potassium Oxide, K <sub>2</sub> O	2.27
Sulfur Trioxide, SO <sub>3</sub>	1.62
Moisture Content	-0.16
Loss on Ignition	7.02
Available Lime Index, %CaO	41.28

#### PHYSICAL TESTING:

Amount Retained on A No. 325 Sieve,%	30.7
C 109 Cubes w/o cement, psi	
3-day	88
7-day	350
28-day	462
Water Requirement, ml	350
Density	2.99

By Robert L. Smith  
Robert L. Smith, Ph.D.