

Resource Materials Testing, Inc.

"Specialists in Fly Ash Testing"

24 Fine Drive Murphy, NC 28906 828.506.7636

REPORT OF STABILIZER ANALYSIS

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

PROJECT NO. RMT-467
SAMPLE NO. 18105
DATE REC.: 05-17-11
DATE REP.: 07-08-11

PROJECT NAME: Ash Grove Durabase® CKD Quality Assurance Program

SAMPLE ID: Foreman Ash Grove Durabase® CKD 5/10/11

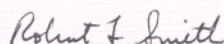
CHEMICAL ANALYSIS, ignited basis, wt%:

RESULTS:

Silicon Dioxide, SiO ₂	21.83
Aluminum Oxide, Al ₂ O ₃	5.90
Iron Oxide, Fe ₂ O ₃	2.47
Sum of SiO ₂ , Al ₂ O ₃ & Fe ₂ O ₃	30.10
Calcium Oxide, CaO	48.85
Magnesium Oxide, MgO	1.30
Sodium Oxide, Na ₂ O	1.12
Potassium Oxide, K ₂ O	11.18
Sulfur Trioxide, SO ₃	6.22
Moisture Content	0.15
Loss on Ignition	3.72
Available Lime Index, %CaO	12.34

PHYSICAL TESTING:

Amount Retained on A No. 325 Sieve, %	24.4
C 109 Cubes w/o cement, psi	
3-day	62
7-day	112
28-day	350
Water Requirement, ml	280
Density	2.71

By 
Robert L. Smith, Ph.D.