



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 7th Street, Suite 400
Topeka, KS 66606-2552

PROJECT NO. RMT-467
SAMPLE NO. 17503
DATE REC.: 04-21-10
DATE REP.: 06-02-10

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

CHEMICAL ANALYSIS, ignited basis, wt%: RESULTS:

Silicon Dioxide, SiO ₂	18.25
Aluminum Oxide, Al ₂ O ₃	5.97
Iron Oxide, Fe ₂ O ₃	3.46
Sum of SiO ₂ , Al ₂ O ₃ & Fe ₂ O ₃	27.68
Calcium Oxide, CaO	52.93
Magnesium Oxide, MgO	0.77
Sodium Oxide, Na ₂ O	0.38
Potassium Oxide, K ₂ O	4.27
Sulfur Trioxide, SO ₃	12.65
Moisture Content	0.16
Loss on Ignition	17.27
Available Lime Index, %CaO	8.43

PHYSICAL TESTING:

Amount Retained on A No. 325 Sieve, %	49.1
C 109 Cubes w/o cement, psi	
3-day	40
7-day	262
28-day	312
Water Requirement, ml	356
Density	2.86

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