



## 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  
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Topeka, KS 66606-2552

PROJECT NO. RMT-467  
SAMPLE NO. 17505  
DATE REC.: 04-21-10  
DATE REP.: 06-02-10

PROJECT NAME: Fluidized Bed Ash Quality Assurance Program  
SAMPLE ID: AES Shady Point Fluidized Bed Ash

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

Silicon Dioxide, SiO <sub>2</sub>	31.08
Aluminum Oxide, Al <sub>2</sub> O <sub>3</sub>	16.72
Iron Oxide, Fe <sub>2</sub> O <sub>3</sub>	8.83
Sum of SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> & Fe <sub>2</sub> O <sub>3</sub>	56.63
Calcium Oxide, CaO	26.42
Magnesium Oxide, MgO	2.46
Sodium Oxide, Na <sub>2</sub> O	0.48
Potassium Oxide, K <sub>2</sub> O	1.14
Sulfur Trioxide, SO <sub>3</sub>	11.54
Moisture Content	0.24
Loss on Ignition	11.99
Available Lime Index, %CaO	8.50

#### PHYSICAL TESTING:

Amount Retained on A No. 325 Sieve,%	46.5
C 109 Cubes w/o cement, psi	
3-day	175
7-day	288
28-day	1125
Water Requirement, ml	380
Density	3.08

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