

**Coal Combustion Byproducts (CCB)  
Annual Generator Tonnage Report**

**Instructions for Calendar Year 2008**

The following is general information relating to the requirement for reporting quantities of coal combustion byproducts that were managed in the State of Maryland during calendar year 2008. Please answer the questions on the form provided, attaching additional information and any requested supplemental information to the back of the form.

**I. Background.** This requirement that generators of coal combustion byproducts (CCBs) submit an annual report was instituted in the Code of Maryland Regulations COMAR 26.04.10.08, that was promulgated effective December 1, 2008. The regulation requires that any non-residential generator of CCBs submit a report to the Department by March 1 of each year describing the manner in which CCBs generated within the State were managed during the preceding calendar year. In addition, for this first report, information concerning CCB activity during the past 5 years is required to be submitted, to the extent that this is known. Additional information and specific instructions follow. For more detailed information, please refer to COMAR 26.04.10.08.

**II. General Information and Applicability.**

**A. Definitions.** Coal combustion byproducts are defined in COMAR 26.04.10.02B as:

*"(3) Coal Combustion Byproducts. (a) "Coal combustion byproducts" means the residue generated by or resulting from the burning of coal.  
(b) "Coal combustion byproducts" includes fly ash, bottom ash, boiler slag, pozzolan, and other solid residuals removed by air pollution control devices from the flue gas and combustion chambers of coal burning furnaces and boilers, including flue gas desulfurization sludge and other solid residuals recovered from flue gas by wet or dry methods."*

A generator of CCBs is defined in COMAR 26.04.10.02B as:

*"(9) Generator.  
(a) "Generator" means a person whose operations, activities, processes, or actions create coal combustion byproducts.  
(b) "Generator" does not include a person who only generates coal combustion byproducts by burning coal at a private residence."*

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**B. Applicability.** If you or your company meet the definition of a generator of CCBs as defined above, you must provide the information as required below. For the purposes of this report, “you” shall hereinafter refer to the generator defined above. Please note that COMAR 26.04.10.08 requires generators of CCBs to submit an annual report to the Department concerning the disposition of the CCBs that they generated the previous year.

**III. Required Information.** The following information must be provided to the Department by March 1, 2009:

A. Contact information:

Facility Name: Morgantown Generating Station

Name of Permit Holder: Mirant Mid-Atlantic, LLC

Facility Address: 12620 Crain Highway  
Street

Facility Address: Newburg, MD. 20664  
City State Zip

County: Charles County

Contact Information (Person filing report or Environmental Manager)

Facility Telephone No.: 301-843-4600 Facility Fax No.: 301-843-4552

Contact Name: Elizabeth Spitzer

Contact Title: Environmental Analyst

Contact Address: 8301 Professional Place  
Street

Contact Address: Landover MD. 20785  
City State Zip

Contact Email: elizabeth.spitzer@mirant.com

Contact Telephone No.: 301-955-9051 Contact Fax No.: 301-955-9074

*For questions on how to complete this form, please call Mr. Tariq Masood, Head of the Office of Reports and Data Management, Solid Waste Program at 410-537-3326.*

B. A description of the process that generates the coal combustion byproducts, including the type of coal or other raw material that generates the coal combustion byproducts. If the space provided is insufficient, please attach additional pages:

See Attachment A.

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C. In the first Annual Report you submit, the annual volume of coal combustion byproducts generated during the last 5 calendar years, including an identification of the different types of coal combustion byproducts generated and the volume of each type generated. (Please note that in subsequent years you need only provide the information in this paragraph for the last calendar year.) If the space provided is insufficient, please attach additional pages in a similar format:

Table I: Volume of CCBs Generated for Previous 5 Years:

Reporting Year	Volume of CCB Type:	Volume of CCB Type:	Volume of CCB Type:
	<u>Flyash</u>	<u>Bottom Ash</u>	_____
2008	206.0	62.9	
2007	178.0	60.0	
2006	184.9	59.9	
2005	141.2	58.2	
2004	173.0	68.8	

Additional notes:

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D. Descriptions of any modeling or risk assessments, or both, conducted relating to the coal combustion byproducts or their use, that were performed by you or your company during the reporting year. Please attach this information to the report.

**No modeling or risk assessment relating to coal combustion byproducts has been performed by the generator. However, there was a groundwater balance study performed at the request of MDE by MD. Ash Management, LLC at its Faulkner Ash Site (Faulkner receives ash generated at the Morgantown Generating Station.) A draft of this study was submitted to MDE in 2008. Results of the study show that based on the model, there is no evidence suggesting that contaminants presently originating from the landfill footprints are impacting any surface water bodies.**

E. Copies of all laboratory reports of all chemical characterizations of the coal combustion byproducts. Please attach this information to the report. **(See Attachment B.)**

F. In this first Annual Report you submit, a description of how you disposed of or used your coal combustion byproducts in the last 5 calendar years (Please note that in subsequent years you need only provide the information in this paragraph for the last calendar year), identifying:

(a) The types and volume of coal combustion byproducts disposed of or used (if different than described in Paragraph C above), the location of disposal, mine reclamation and use sites, and the type and volume of coal combustion byproducts disposed of or used at each site:

Flyash: An average of 176,600 tons generated per year of which fifty-eight percent is disposed of at the Faulkner Ash Site located in Charles County, Maryland and an average of forty-two percent is sold.

Bottom Ash: An average of 62,000 tons sixty-two (62) of which fourteen (14) percent on average is sent to the Faulkner Ash site, nine (9) percent is used on site and an average of seventy-seven (77) percent is sold.

(See Attachment C for additional volume information.)

and (b) The different uses by type and volume of coal combustion byproducts:

Flyash:

Uses: Concrete/concrete products/grout

Volume: Forty-one percent or 74,000 tons on average.

Bottom Ash:

Uses: Road Base/Sub-base/Aggregate

Volume: Fifty-eight (58) percent or 102,600 tons on average.

If the space provided is insufficient, please attach additional pages in a similar format. . (Please note that in subsequent years you need only provide the information in Section F for the last calendar year).

G. A description of how you intend to dispose of or use coal combustion byproducts in the next 5 years, identifying:

(a) The types and volume of coal combustion byproducts intended to be disposed of or used, the location of intended disposal, mine reclamation and use sites, and the type and volume of coal combustion byproducts intended to be disposed of or used at each site:

Flyash: An average of 176,600 tons generated per year of which fifty-eight percent to be disposed of at the Faulkner Ash Site located in Charles County, Maryland and an average of forty-two percent to be sold.

Bottom Ash: An average of 62,000 tons sixty-two (62) generated per year of which fourteen (14) percent to be sent to the Faulkner Ash site, nine (9) percent to be used on site and an average of seventy-seven (77) percent is sold.

FGD Waste: Beginning in 2010 (Unit 1) and 2011 (Unit 2), an average of 375,000 tons to be generated per year of which 100% will be sent to Buchannan, New York for the manufacture of wallboard.

and (b) The different intended uses by type and volume of coal combustion byproducts.

Flyash:

Uses: Concrete/concrete products/grout

Volume: Forty-one percent or 74,000 tons on average.

Bottom Ash:

Uses: Road Base/Sub-base/Aggregate

Volume: Fifty-eight (58) percent or 102,600 tons on average

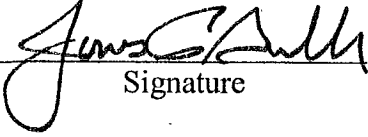
FGD Waste:

Uses: Wallboard

Volume: One hundred (100) percent or 375,000 tons.

If the space provided is insufficient, please attach additional pages in a similar format.

**IV. Signature and Certification.** An authorized official of the generator must sign the annual report, and certify as to the accuracy and completeness of the information contained in the annual report:

This is to certify that, to the best of my knowledge, the information contained in this report and any attached documents are true, accurate, and complete.		
 Signature	<u>James P. Garlick, SR. VP - Operations</u> 678-579-5040 Name, Title, & Telephone No. (Print or Type) <u>jim.garlick@mirant.com</u> Your Email Address	<u>2-24-09</u> Date

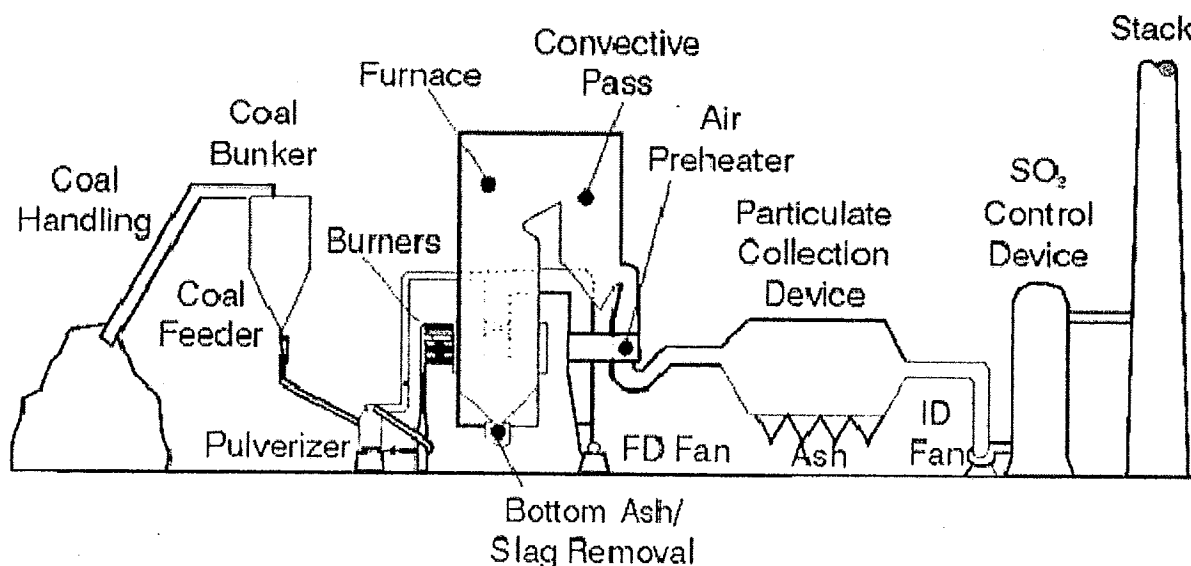
## Attachment A

Morgantown Generating Station  
12620 Crain Highway,  
Newburg, Charles County, MD. 20664  
301-843-4600

The Morgantown Generating Station is located on the Potomac River, just south of Rt. 301 at the Harry W. Nice Bridge near the town of Newburg in Charles County, MD. The facility is engaged in the generation of electrical energy for sale. The primary SIC code is 4911. There are two tangentially fired supercritical steam units each firing bituminous coal. Each unit is rated at 640 MWs (base loaded) and each is equipped with a superheater, single reheat, and economizer. Pollution control devices on both units include low NO<sub>x</sub> burners with Separated Over-Fired Air (SOFA) and Selective Catalytic Reduction (SCR) for control of oxides of nitrogen (NO<sub>x</sub>); and electrostatic precipitators (ESP) for the control of particulate matter. Both boilers exhaust to a separate 700 ft. stack.

Coal is currently delivered by both rail and by barge. The rail cars are emptied using a rotary dumper, then transferred by conveyor and dravo to either a storage pile or fed directly to the units' bunker. The barge unloading facility consists of a dock, an unloader, a transfer system, and a rail loading system and a rail loading facility. The barge unloading transfer and distribution system is integrated into Morgantown's existing coal handling system.

The illustration below shows a simple schematic diagram for a typical pulverized coal combustion system. The coal is prepared by grinding to a very fine consistency for combustion.



Future SO<sub>2</sub> Control 1

## **Attachment A**

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The CCBs currently produced and used are a result of the combustion of pulverized coal.

Ash is formed in the boiler while coal combusts. In general, pulverized coal combustion results in approximately 65%–85% fly ash, and the remainder is coarser bottom ash. Bottom ash is a coarse material and falls to the bottom of the boiler. Fly ash is finer than bottom ash and is carried along the combustion process with flue gas. Particulate collection devices remove fly ash from the flue gas and the collected ash is transferred to one of two ash silos. Flyash that is not marketed is sent to the Faulkner Ash Site, located approximately six miles north and also in Charles County, MD. The bottom ash is conveyed out of the bottom of the boiler via a drag chain conveyor. The bottom ash is then prepared for sale, used on site or sent to the Faulkner Ash Site, where it is often used in the construction of flyash disposal cells.



Attachment B

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May 29, 2008

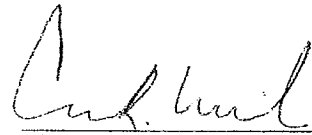
Anne Miller  
 TEC Services  
 235 Buford Dr.  
 Lawrenceville, GA      30045

Denver Div. # 08379-1  
 Sample ID: Mirant Flyash 08-193

CHEMICAL ANALYSIS  
 WT%, DRY BASIS

Silicon Dioxide, SiO <sub>2</sub>	47.77	
Aluminum Oxide, Al <sub>2</sub> O <sub>3</sub>	27.56	
Iron Oxide, Fe <sub>2</sub> O <sub>3</sub>	11.93	
Total (SiO <sub>2</sub> + Al <sub>2</sub> O <sub>3</sub> + Fe <sub>2</sub> O <sub>3</sub> )		87.26
Calcium Oxide, CaO	2.31	
Magnesium Oxide, MgO	0.72	
Sodium Oxide, Na <sub>2</sub> O	0.44	
Potassium Oxide, K <sub>2</sub> O	1.81	
Titanium Dioxide, TiO <sub>2</sub>	1.36	
Manganese Dioxide, MnO <sub>2</sub>	0.03	
Phosphorus Pentoxide, P <sub>2</sub> O <sub>5</sub>	0.43	
Strontium Oxide, SrO	0.11	
Barium Oxide, BaO	0.09	
Sulfur Trioxide, SO <sub>3</sub>	0.14	
Loss on Ignition	5.31	
Moisture, as Received	0.06	

Analysis per ASTM C 311

  
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 Charles R. Wilson  
 Division Manager

May 29, 2008

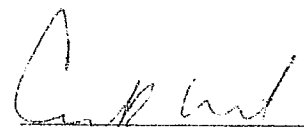
Anne Miller  
 TEC Services, Inc.  
 235 Buford Dr.  
 Lawrenceville, GA 30045

RE: WAL # 08379-1  
 Sample ID: Mirant Flyash Sample 08-093

ANALYTICAL REPORT

Analysis in accordance with EPA Methods: 1311/6020 (SPLP),  
 3052/6020 (Total Metals), 1311/6020 (TCLP), 300 (Nitrate).

<u>Element/Compound</u>	<u>SPLP mg/L</u>	<u>Total Metals mg/kg</u>	<u>TCLP mg/L</u>
Aluminum	9.2	7,030	--
Antimony	0.025	1.33	--
Arsenic	0.171	108	< 1
Barium	0.01	183	< 20
Beryllium	< 0.001	2.27	--
Boron	2.16	128	--
Cadmium	0.421	0.74	< 0.2
Chromium	0.04	39	< 1
Cobalt	< 0.001	4.12	--
Copper	0.02	30	--
Iron	< 0.01	75,000	--
Lead	0.02	17.8	< 1
Manganese	< 0.01	32.5	--
Mercury	0.003	2.40	< 0.04
Molybdenum	0.544	16	--
Nickel	0.005	12.6	--
Selenium	0.28	106	< 0.2
Silver	< 0.001	< 0.01	< 1.0
Sodium	9.20	4,095	--
Thalium	< 0.001	2.56	--
Vanadium	0.310	81	--
Zinc	0.10	37	--
Sulfate	1.95	--	--
Chloride	0.06	--	--
Nitrate as N	0.12	--	1.18

  
 Charles R. Wilson  
 Division Manager  
 MEMBER  
 ACIL



# WYOMING ANALYTICAL LABORATORIES, INC.

14334 W. 14th Avenue  
Boulder, CO 80503

Phone: 303.440.0000  
Email: [wlab@wyanaly.com](mailto:wlab@wyanaly.com)

QTL# 2084416  
Fax: (303) 440-0409

May 29, 2008

Anne Miller  
TEC Services, Inc.  
235 Buford Dr.  
Lawrenceville, GA 30045

RE: WAL # 08379-1  
Sample ID: Mirant Flyash Sample 08-093

## ANALYTICAL REPORT

pH = 3.6

Total Chloride per ASTM C-1152 = 0.0009 Wt. %, As Received

Alkalinity per ASTM C-25 = 1.50 Wt. %, CaCO<sub>3</sub> Equivalent,  
As Received

Base to Acid Ratio = 0.22, Ignited Basis\*

Silica Ratio = 0.76, Ignited Basis\*

\*Calculate Parameter ASME, 1974

Charles R. Wilson  
Division Manager

MEMBER  
ACIL



June 3, 2008

Mr. Patrick Miglio  
Mirant  
1400 North Royal Street  
Alexandria, VA 22314

Phone: 410-603-01432  
E-mail: patrick.miglio@mirant.com

Subject: **Interim Report - Morgantown Fly Ash Chemical/Physical Properties**  
**Project No. TEC 08-0648**  
**Lab ID. 08-193**

Mr. Miglio:

Testing Engineering & Consulting Services Inc. (TEC Services) is pleased to present this report of the chemical analysis completed on the submitted Morgantown fly ash sample. The sample was received at our laboratory on April 24<sup>th</sup>, 2008. The chemical analyses were performed by Wyoming Analytical Services. The physical performance testing was completed by TEC Services in accordance with ASTM C618.

We appreciate the opportunity to provide our services to you. If you should have any questions please feel free to contact us at 770-995-8000.

Sincerely,

**Testing, Engineering & Consulting Services, Inc.**

James G. McCants III  
Staff Chemist

Anne Miller  
Staff Engineer

Attachments: Table 1 – Elemental Analysis  
Table 2 – Oxide Analysis and Other Properties  
Table 3 – Physical Performance Testing

**Table 1 – Elemental Analysis**

<u>Element</u>	<u>EPA Methods</u>		
	<u>1311/6020</u> <u>SPLP (mg/L)</u>	<u>3052/6020</u> <u>Total Metals (mg/kg)</u>	<u>1311/6020</u> <u>TCLP (mg/L)</u>
Aluminum	9.2	7,030	NA
Antimony	0.025	1.33	NA
Arsenic	0.171	108	< 1
Barium	0.01	183	< 20
Beryllium	< 0.001	2.27	NA
Boron	2.16	128	NA
Cadmium	0.421	0.74	< 0.2
Chromium	0.04	39	< 1
Cobalt	< 0.001	4.12	NA
Copper	0.02	30	NA
Iron	< 0.1	75,000	NA
Lead	0.02	17.8	< 1
Manganese	< 0.01	32.5	NA
Mercury	0.003	2.40	< 0.04
Molybdenum	0.544	16	NA
Nickel	0.005	12.6	NA
Selenium	0.28	106	< 0.2
Silver	< 0.001	< 0.01	< 1.0
Sodium	9.20	4,095	NA
Thallium	< 0.001	2.56	NA
Vanadium	0.310	81	NA
Zinc	0.10	37	NA
Sulfate	1.95	NA	NA
Chloride	0.06	NA	NA
Nitrate as N	0.12	NA	1.18

**Table 2 – ASTM C114 Analysis and Other Properties**

<u>Compound</u>	<u>wt. %, Dry Basis</u>		
Silicon Dioxide	47.77		
Aluminum Oxide	27.56		
Iron Oxide	11.93		
Total (SiO <sub>2</sub> +Al <sub>2</sub> O <sub>3</sub> +Fe <sub>2</sub> O <sub>3</sub> )	87.26		
Calcium Oxide	2.31		
Magnesium Oxide	0.72	<b>pH (as received)</b>	3.6
Sodium Oxide	0.44	<b>Chloride per ASTM C1152</b>	0.0009 wt.%
Potassium Oxide	1.81	<b>Alkalinity per ASTM C25</b>	1.50 wt.%
Titanium Dioxide	1.36	<b>Base to Acid Ratio</b>	0.22
Manganese Oxide	0.03	<b>Silica Ratio</b>	0.76
Phosphorus Pentoxide	0.43		
Strontium Oxide	0.11		
Barium Oxide	0.09		
Sulfur Trioxide	0.14		
Loss on Ignition	5.31		
Moisture Content	0.06		

**Table 3 – Physical Performance Testing for ASTM C618**

Physical Analysis		Specification (Class F)	
		ASTM C618-03	AASHTO M295-05
Fineness (Amount Retained on #325 Sieve)	<b>18.3</b>	34 % max.	34 % max.
Specific Gravity	<b>2.38</b>		
Strength Activity Index with Portland Cement			
At 7 Days:		<b>74%</b>	75 % min. (of control)
Control Average, psi: 4720	Test Average, psi: 3470		
At 28 Days:		<b>80%</b>	75 % min. (of control)
Control Average, psi: 5960	Test Average, psi: 4770		
Water Requirements (Test H <sub>2</sub> O/Control H <sub>2</sub> O)		<b>99%</b>	105 % max. (of control)
Control, mls: 242	Test, mls: 239		
Autoclave Expansion		<b>0.04%</b>	± 0.8 % max.

Mirant Fly Ash analysis

Morgantown Ash Sample #1 silo

Date Sampled: May 20, 2008

Contact Information:

Pat Miglio  
21200 Martinsburg, Rd.  
Dickerson, MD 20842  
(C) 202-365-6812  
patrick.miglio@mirant.com

pH (as received basis)

alkalinity (as received basis)  $\approx$  w- pH-S

Total metals

Chemical requirements

Sulfur trioxide



Fly ash analysis – Pennsylvania Module 25A requirements (SPLP)  
 Please add the following to this list: **Beryllium, Cobalt, Silver, Thallium, and Vanadium**

5600-PM-MR0011 8/98

SECTION E- COAL ASH AND LEACHATE ANALYSES					
Coal Ash Generation Facility Name _____					
RESULTS OF ANALYSES <input type="checkbox"/> No pH adjustment <input type="checkbox"/> After pH Adjustment					
Constituents	Acceptable Methods of Analysis Indicate Method Used		Ash Dry Wt. Concentration. (mg/kg)	EPA's SW-846 Method 1312, SPLP Leachate Concentration (mg/L)	Maximum Acceptable Leachate Concentration (mg/L)
	EPA SW-846	Other Acceptable			
pH Solid	9045				
Aluminum	6010A, 7020				5.0
Antimony	6010A, 7040, 7041				0.15
Arsenic	6010A, 7060A, 7061A				1.25
Barium	6010A, 7080A, 7081				50
Boron		EPA 600/4-79-020			31.50
Cadmium	6010A, 7130, 7131A				0.13
Chromium	6010A, 7190, 7191				2.5
Copper	6010A, 7210, 7211				32.5
Iron	6010A, 7380, 7381				7.5
Lead	6010A, 7420, 7421				1.25
Manganese	6010A, 7460, 7461				1.25
Mercury	7470, 7471A				0.05
Molybdenum	6010A, 7480, 7481				4.38
Nickel	6010A, 7250				2.5
Selenium	6010A, 7740, 7741				1.00
Zinc	6010A, 7950, 7951				125
Sulfate	9035A, 9036A, 38A				2500
Chloride	9250, 9251A, 9252				2500
Sodium	6010A, 7770				
Acid Neutralizing Potential*	Method of Analysis		Calcium Carbonate Equivalence		
	<input type="checkbox"/> Neutralization Potential Test, DEP's Overburden Sampling and Testing Manual, Noll <i>et al.</i> <input type="checkbox"/> Other indicate method _____		Tons of CaCO <sub>3</sub> per 1,000 tons of ash _____	% CaCO <sub>3</sub> Dry Wt. _____	
Hydraulic Conductivity**	<input type="checkbox"/> ASTM D 5084-90 <input type="checkbox"/> Other indicate method _____		Permeability (cm/sec)		
	* Provide only when the requested beneficial use is as a liming agent for a soil substitute or soil additive or as alkaline addition. ** Provide only when the requested beneficial use is as a low-permeability material.				
Analytical Laboratory Name, Address _____			Analyst(s) Name _____		
_____			_____		
_____			Telephone No. _____		
Laboratory reports must be attached					

## Certificate of Analysis

Customer: Mirant Mid-Atlantic, LLC  
Patrick Miglio  
21200 Martinsburg Road  
Dickerson, MD 20842

Report Date: June 06, 2008

Page 1 of 2

Material Tested: Fly Ash  
Date Sampled: 05/20/2008 Time Sampled: 0:00  
Date Received: 06/02/2008

HawkMtn WO #: 0806-00280-001  
Sampler: Client  
Sample Point ID: Morgantown Ash

Client Sample ID: Morgantown Ash Sample #1 Silo 5/20/08

Test Name	Test Results	Method	Technician	Analysis Date	Time
pH, Solid	9.6 su	SW846-9045	LAP	06/03/2008	12:00
Aluminum, Dry Weight	26000 mg/kg	SW846-6010B	MC	06/03/2008	18:00
Antimony, Dry Weight	6.51 mg/kg	SW846-6010B	MC	06/03/2008	18:00
Arsenic, Dry Weight	109 mg/kg	SW846-6010B	MC	06/03/2008	18:00
Barium, Dry Weight	266 mg/kg	SW846-6010B	MC	06/03/2008	18:00
Beryllium, Dry Weight	10.4 mg/kg	SW846-6010B	MC	06/03/2008	18:00
Boron, Dry Weight	150 mg/kg	SW846-6010B	MC	06/03/2008	18:00
Cadmium, Dry Weight	<2.0 mg/kg	SW846-6010B	MC	06/03/2008	18:00
Calcium, Dry Weight	10300 mg/kg	SW846 6010B	MC	06/03/2008	18:00
Chromium, Dry Weight	77.2 mg/kg	SW846-6010B	MC	06/03/2008	18:00
Cobalt, Dry Weight	24.4 mg/kg	SW846-6010B	MC	06/03/2008	18:00
Copper, Dry Weight	91.9 mg/kg	SW846-6010B	MC	06/03/2008	18:00
Iron, Dry Weight	27200 mg/kg	SW846-6010B	MC	06/03/2008	18:00
Lead, Dry Weight	35.0 mg/kg	SW846-6010B	MC	06/03/2008	18:00
Manganese, Dry Weight	69.8 mg/kg	SW846-6010B	MC	06/03/2008	18:00
Mercury, Dry Weight	0.267 mg/kg	SW846-7471A	MC	06/04/2008	12:30
Molybdenum, Dry Weight	20.1 mg/kg	SW846-6010B	MC	06/03/2008	18:00
Nickel, Dry Weight	49.3 mg/kg	SW846-6010B	MC	06/03/2008	18:00
Selenium, Dry Weight	11.6 mg/kg	SW846-6010B	MC	06/03/2008	18:00
Silver, Dry Weight	<1.0 mg/kg	SW846-6010B	MC	06/03/2008	18:00
Sodium, Dry Weight	858 mg/kg	SW846-6010B	MC	06/03/2008	18:00
Thallium, Dry Weight	525 mg/kg	SW846-6010B	MC	06/03/2008	18:00
Vanadium, Dry Weight	153 mg/kg	SW846-6010B	MC	06/03/2008	18:00
Zinc, Dry Weight	79.6 mg/kg	SW846-6010B	MC	06/03/2008	18:00
Acid Neutralization Potent	12.5 **	EPA 600/2-78-054	LAP	06/06/2008	9:46
SPLP, fluid #1	9.8 su, ending	SW846-1312; 9045	DDF	06/03/2008	9:00
Aluminum, leachate	7.55 mg/l	SW846-6010B	MC	06/03/2008	18:00
Arsenic, Leachate	0.19 mg/l	SW846-6010B	MC	06/03/2008	18:00
Antimony, Leachate	0.05 mg/l	SW846-6010B	MC	06/18/2008	18:00
Barium, Leachate	0.139 mg/l	SW846-6010B	MC	06/03/2008	18:00
Beryllium, Leachate	<0.010 mg/l	SW846-6010B	MC	06/03/2008	18:00
Boron, Leachate	2.40 mg/l	SW846-6010B	MC	06/03/2008	18:00
Cadmium, Leachate	<0.020 mg/l	SW846-6010B	MC	06/03/2008	18:00
Chromium, Leachate	0.048 mg/l	SW846-6010B	MC	06/03/2008	18:00



## Certificate of Analysis

Customer: Mirant Mid-Atlantic, LLC  
 Patrick Miglio  
 21200 Martinsburg Road  
 Dickerson, MD 20842

Report Date: June 06, 2008

Page 2 of 2

Material Tested: Fly Ash  
 Date Sampled: 05/20/2008 Time Sampled: 0:00  
 Date Received: 06/02/2008

HawkMtn WO #: 0806-00280-001  
 Sampler: Client  
 Sample Point ID: Morgantown Ash

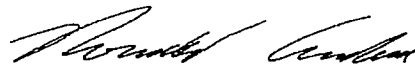
Client Sample ID: Morgantown Ash Sample #1 Silo 5/20/08

Test Name	Test Results	Method	Technician	Analysis Date	Time
Cobalt, Leachate	<0.020 mg/l	SW846-6010B	MC	06/03/2008	18:00
Copper, Leachate	<0.02 mg/l	SW846-6010B	MC	06/03/2008	18:00
Iron, Leachate	<0.10 mg/l	SW846-6010B	MC	06/03/2008	18:00
Lead, Leachate	<0.10 mg/l	SW846-6010B	MC	06/03/2008	18:00
Manganese, Leachate	<0.020 mg/l	SW846-6010B	MC	06/03/2008	18:00
Mercury, Leachate	<0.001 mg/l	SW846-7470A	MC	06/04/2008	12:30
Molybdenum, Leachate	0.73 mg/l	SW846-6010B	MC	06/03/2008	18:00
Nickel, Leachate	<0.020 mg/l	SW846-6010B	MC	06/03/2008	18:00
Selenium, Leachate	0.29 mg/l	SW846-6010B	MC	06/03/2008	18:00
Silver, Leachate	<0.010 mg/l	SW846-6010B	MC	06/03/2008	18:00
Sodium, Leachate	11.8 mg/l	SW846-6010B	MC	06/03/2008	18:00
Thallium, Leachate	<0.05 mg/l	SW846-6010B	MC	06/03/2008	18:00
Vanadium, Leachate	0.338 mg/l	SW846-6010B	MC	06/03/2008	18:00
Zinc, Leachate	<0.025 mg/l	SW846-6010B	MC	06/03/2008	18:00
SPLP Fluid #3, Water	9.9 su, ending	SW846-1312; 9045	DDF	06/03/2008	9:00
Fluoride	0.86 mg/l	EPA 300 HPLC IC	SAB	06/02/2008	11:00
Chloride, Leachate	<1.0 mg/l	EPA 300 HPLC IC	SAB	06/02/2008	11:00
Nitrite, Leachate	<0.10 mg/l	EPA 300 HPLC IC	SAB	06/02/2008	11:00
Nitrate, Leachate	<0.50 mg/l	EPA 300 HPLC IC	SAB	06/02/2008	11:00
Sulfate, Leachate	703 mg/l	EPA 300 HPLC IC	SAB	06/02/2008	11:00
Sulfur Trioxide	0.40 %	ASTM D4239 (Inducti	DDF	06/06/2008	14:40

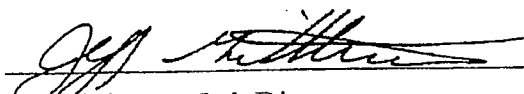
\*\* Tons of CaCO3 equivalent per 1,000 tons of material.

These results relate only to the sample noted above.

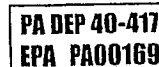
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Ronald Andrae, Technical Director



Jeff Gittleman, Lab Director





# Microbac Laboratories, Inc.

## Gascoyne Division

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2101 Van Deman Street • Baltimore, MD 21224

### CERTIFICATE OF ANALYSIS

Page 1 of 2

Mirant Mid-Atlantic, LLC  
8711 Westphalia Road

Report No: 0601314

Date Received: 1/13/2006

Upper Marlboro, MD 20774

Date Reported: 1/20/2006

Attn: Ann Wearmouth

Project: Morgantown

Test	Result	Units	Reporting Limit	Date/Time of Analysis	Analyst
------	--------	-------	-----------------	-----------------------	---------

Lab ID: 0601314-001

Collection Date: 10/1/2005

Client Sample ID: F-1 Silo Ash

Matrix: SOLID

MERCURY, TOTAL (METHOD: EPA 7471A)

Prep. Method: NA

Prep. Date: NA

Prep Analyst NA

Mercury	0.11	mg/kg	0.025	1/19/2006 16:49	APS
---------	------	-------	-------	-----------------	-----

METALS, TOTAL (METHOD: EPA 6010B)

Prep. Method: EPA 3050B

Prep. Date: 1/18/2006 3:00:00 PM

Prep Analyst EDW

*note: Boron ICV/CCV recoveries (115%) were out of acceptance limits (90-110%).*

Aluminum	28,000	mg/Kg	50	1/19/2006 15:58	APS
Arsenic	140	mg/Kg	5.0	1/19/2006 15:58	APS
Barium	260	mg/Kg	5.0	1/19/2006 15:58	APS
Boron	280	mg/Kg	25	1/19/2006 15:58	APS
Cadmium	< 5.0	mg/Kg	5.0	1/19/2006 15:58	APS
Calcium	11,000	mg/Kg	25	1/19/2006 15:58	APS
Chromium	88	mg/Kg	5.0	1/19/2006 15:58	APS
Cobalt	19	mg/Kg	5.0	1/19/2006 15:58	APS
Copper	33	mg/Kg	5.0	1/19/2006 15:58	APS
Iron	44,000	mg/Kg	5.0	1/19/2006 15:58	APS
Lead	34	mg/Kg	5.0	1/19/2006 15:58	APS
Magnesium	1,800	mg/Kg	5.0	1/19/2006 15:58	APS
Manganese	82	mg/Kg	5.0	1/19/2006 15:58	APS
Nickel	58	mg/Kg	5.0	1/19/2006 15:58	APS
Potassium	3,500	mg/Kg	25	1/19/2006 15:58	APS
Selenium	< 5.0	mg/Kg	5.0	1/19/2006 15:58	APS
Silver	< 5.0	mg/Kg	5.0	1/19/2006 15:58	APS
Sodium	1,700	mg/Kg	250	1/19/2006 15:58	APS
Vanadium	160	mg/Kg	5.0	1/19/2006 15:58	APS

PH (CORROSIVITY) (METHOD: EPA 9045C)

Prep. Method: NA

Prep. Date: NA

Prep Analyst NA

pH	4.3	pH Units	1.0	1/19/2006 8:07	LCR
Temperature	25.0	°C	0.10	1/19/2006 8:07	LCR

SULFUR, TOTAL (METHOD: ASTM D 129)

Prep. Method: NA

Prep. Date: NA

Prep Analyst NA

Sulfur, Total	0.58	%	0.050	1/19/2006 10:00	EDW
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# Microbac Laboratories, Inc. Gascoyne Division

Phone: 410-633-1800

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www.gascoyne.com

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## CERTIFICATE OF ANALYSIS

Page 2 of 2

Mirant Mid-Atlantic, LLC  
8711 Westphalia Road

Report No: 0601314

Date Received: 1/13/2006

Upper Marlboro, MD 20774

Date Reported: 1/20/2006

Attn: Ann Wearmouth

Project: Morgantown

Test	Result	Units	Reporting Limit	Date/Time of Analysis	Analyst
<u>TCLP MERCURY (HG) (METHOD: EPA 1311/7470A)</u>					
Prep. Method: NA		Prep. Date: NA		Prep Analyst NA	
Mercury	< 0.0020	mg/L -TC	0.0020	1/19/2006 15:45	APS
<u>TCLP METALS (METHOD: EPA 1311/6010B)</u>					
Prep. Method: EPA 3010A		Prep. Date: 1/19/2006 7:51:35 AM		Prep Analyst EDW	
Arsenic	< 0.50	mg/L -TC	0.50	1/19/2006 15:21	APS
Barium	< 10	mg/L -TC	10	1/19/2006 15:21	APS
Cadmium	< 0.10	mg/L -TC	0.10	1/19/2006 15:21	APS
Chromium	< 0.50	mg/L -TC	0.50	1/19/2006 15:21	APS
Lead	< 0.50	mg/L -TC	0.50	1/19/2006 15:21	APS
Nickel	0.14	mg/L -TC	0.10	1/19/2006 15:21	APS
Selenium	< 0.10	mg/L -TC	0.10	1/19/2006 15:21	APS
Silver	< 0.50	mg/L -TC	0.50	1/19/2006 15:21	APS

Final report reviewed by:

Tessie A. Gamber, QA Officer

All samples received in proper condition and results conform to NELAC standards unless otherwise noted

If we have not met or exceeded your expectations, please contact the Director or Trevor Boyce, President at tboyce@microbac.com or Robert Morgan, Chief Operation Officer, at rmorgan@microbac.com

Microbac Laboratories, Inc. Gascoyne Division- laboratory accreditations: MD 109, VA 00152, NJ MD637, PA 68-339, NY 11158, ISO 17025, NELAC, AIHA 100491. The data and information on this, and other accompanying documents, represents only the sample(s) analyzed and is not to be reproduced wholly or in part for advertising or other purposes without written approval from the laboratory. Organics Qualifiers: (U) analyzed for but not detected; (J) estimated value, below the reporting limit but above one-half the reporting limit; (B) detected in the associated method blank; (D) reanalyzed at a higher dilution factor. Inorganics Qualifiers: (U) analyzed for but not detected; (B) estimated value, below the reporting limit but above one-half the reporting limit. A copy of COC is attached.

### Certificate of Analysis

Customer Mirant Corporation  
Chalk Point Generating Station  
25100 Chalk Point Road  
Aguasco, MD 20608

Report Date: June 12, 2008

Page 1 of 2

Material Tested: Fly Ash  
Date Sampled: 04/02/2008 Time Sampled: 14:00  
Date Received: 05/20/2008  
Client Sample ID: 201-208 Comp Fly Ash

HawkMtn WO #: 0805-01013-001  
Sampler: Client  
Sample Point ID: ~~201-208 Comp Fly Ash~~  
*Mirant Corp*

<u>Test Name</u>	<u>Test Results</u>	<u>Method</u>	<u>Technician</u>	<u>Analysis Date</u>	<u>Time</u>
pH, Solid	8.9 su	SW846-9045	LAP	06/02/2008	12:00
Aluminum, Dry Weight	12000 mg/kg	SW846-6010B	MC	05/23/2008	18:00
Antimony, Dry Weight	<5.0 mg/kg	SW846-6010B	MC	05/23/2008	18:00
Arsenic, Dry Weight	112.81 mg/kg	SW846-6010B	MC	05/23/2008	18:00
Barium, Dry Weight	268 mg/kg	SW846-6010B	MC	05/23/2008	18:00
Beryllium, Dry Weight	5.98 mg/kg	SW846-6010B	MC	05/23/2008	18:00
Boron, Dry Weight	97.5 mg/kg	SW846-6010B	MC	05/23/2008	18:00
Cadmium, Dry Weight	3.39 mg/kg	SW846-6010B	MC	05/23/2008	18:00
Calcium, Dry Weight	7170 mg/kg	SW846 6010B	MC	05/23/2008	18:00
Chromium, Dry Weight	47.02 mg/kg	SW846-6010B	MC	05/23/2008	18:00
Cobalt, Dry Weight	85.80 mg/kg	SW846-6010B	MC	05/23/2008	18:00
Copper, Dry Weight	39.81 mg/kg	SW846-6010B	MC	05/23/2008	18:00
Iron, Dry Weight	17630 mg/kg	SW846-6010B	MC	05/23/2008	18:00
Lead, Dry Weight	47.13 mg/kg	SW846-6010B	MC	05/23/2008	18:00
Manganese, Dry Weight	54.35 mg/kg	SW846-6010B	MC	05/23/2008	18:00
Mercury, Dry Weight	<0.25 mg/kg	SW846-7471A	MC	05/22/2008	11:30
Molybdenum, Dry Weight	12.53 mg/kg	SW846-6010B	MC	05/23/2008	18:00
Nickel, Dry Weight	22.21 mg/kg	SW846-6010B	MC	05/23/2008	18:00
Selenium, Dry Weight	19.29 mg/kg	SW846-6010B	MC	05/23/2008	18:00
Silver, Dry Weight	<1.0 mg/kg	SW846-6010B	MC	05/23/2008	18:00
Sodium, Dry Weight	509.50 mg/kg	SW846-6010B	MC	05/23/2008	18:00
Thallium, Dry Weight	<5.0 mg/kg	SW846-6010B	MC	05/23/2008	18:00
Vanadium, Dry Weight	98.411 mg/kg	SW846-6010B	MC	05/23/2008	18:00
Zinc, Dry Weight	41.35 mg/kg	SW846-6010B	MC	05/23/2008	18:00
Acid Neutralization Potent	45 **	EPA 600/2-78-054	LAP	06/10/2008	9:00
SPLP, fluid #1	9.0 su, ending	SW846-1312; 9045	DDF	05/21/2008	8:26
Aluminum, Leachate	3.90 mg/l	SW846-6010B	MC	05/23/2008	18:00
Arsenic, Leachate	0.11 mg/l	SW846-6010B	MC	05/23/2008	18:00
Antimony, Leachate	<0.05 mg/l	SW846-6010B	MC	05/23/2008	18:00
Barium, Leachate	0.16 mg/l	SW846-6010B	MC	05/23/2008	18:00
Beryllium, Leachate	<0.010 mg/l	SW846-6010B	MC	05/23/2008	18:00
Boron, Leachate	2.16 mg/l	SW846-6010B	MC	05/23/2008	18:00
Cadmium, Leachate	<0.020 mg/l	SW846-6010B	MC	05/23/2008	18:00

## Certificate of Analysis

Customer Mirant Corporation  
Chalk Point Generating Station  
25100 Chalk Point Road  
Aguasco, MD 20608

Report Date: June 12, 2008

Page 2 of 2

Material Tested: Fly Ash  
Date Sampled: 04/02/2008 Time Sampled: 14:00  
Date Received: 05/20/2008  
Client Sample ID: 201-208 Comp Fly Ash

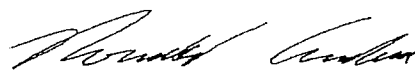
HawkMtn WO #: 0805-01013-001  
Sampler: Client  
Sample Point ID: 201-208 Comp Fly Ash

Test Name	Test Results	Method	Technician	Analysis Date	Time
Chromium, Leachate	<0.025 mg/l	SW846-6010B	MC	05/23/2008	18:00
Cobalt, Leachate	<0.020 mg/l	SW846-6010B	MC	05/23/2008	18:00
Copper, Leachate	<0.02 mg/l	SW846-6010B	MC	05/23/2008	18:00
Iron, Leachate	<0.10 mg/l	SW846-6010B	MC	05/23/2008	18:00
Lead, Leachate	<0.10 mg/l	SW846-6010B	MC	05/23/2008	18:00
Manganese, Leachate	<0.020 mg/l	SW846-6010B	MC	05/23/2008	18:00
Mercury, Leachate	<0.001 mg/l	SW846-7470A	MC	05/22/2008	11:30
Molybdenum, Leachate	0.38 mg/l	SW846-6010B	MC	05/23/2008	18:00
Nickel, Leachate	<0.020 mg/l	SW846-6010B	MC	05/23/2008	18:00
Selenium, Leachate	0.24 mg/l	SW846-6010B	MC	05/23/2008	18:00
Silver, Leachate	<0.010 mg/l	SW846-6010B	MC	05/23/2008	18:00
Sodium, Leachate	8.46 mg/l	SW846-6010B	MC	05/23/2008	18:00
Thallium, Leachate	<0.05 mg/l	SW846-6010B	MC	05/23/2008	18:00
Vanadium, Leachate	0.081 mg/l	SW846-6010B	MC	05/23/2008	18:00
Zinc, Leachate	<0.025 mg/l	SW846-6010B	MC	05/23/2008	18:00
SPLP Fluid #3, Water	9.1 su, ending	SW846-1312; 9045	DDF	05/21/2008	8:26
Fluoride	1.20 mg/l	EPA 300 HPLC IC	SAB	05/21/2008	15:00
Chloride, Leachate	<1.0 mg/l	EPA 300 HPLC IC	SAB	05/21/2008	15:00
Nitrite, Leachate	<0.10 mg/l	EPA 300 HPLC IC	SAB	05/21/2008	15:00
Nitrate, Leachate	<0.50 mg/l	EPA 300 HPLC IC	SAB	05/21/2008	15:00
Sulfate, Leachate	435 mg/l	EPA 300 HPLC IC	SAB	05/21/2008	15:00

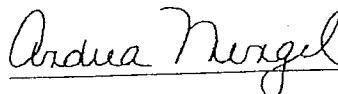
\*\* Tons of CaCO3 equivalent per 1,000 tons of material.

These results relate only to the sample noted above.

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Ronald Andrae, Technical Director



Andrea Mengel, Environmental Lab Coordinator

## Certificate of Analysis

Customer: Mirant Corporation  
Chalk Point Generating Station  
25100 Chalk Point Road  
Aquasco, MD 20608

Report Date: June 12, 2008

Page 1 of 1

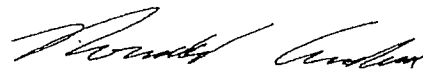
Material Tested: Fly Ash  
Date Sampled: 04/02/2008      Time Sampled: 14:00  
Date Received: 05/20/2008  
Client Sample ID: 201-208 Comp Fly Ash

HawkMtn WO #: 0805-01013-002  
Sampler: Client  
Sample Point ID: 201-208 Comp Fly Ash

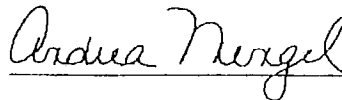
<u>Test Name</u>	<u>Test Results</u>	<u>Method</u>	<u>Technician</u>	<u>Analysis Date</u>	<u>Time</u>
Barium Oxide	0.10 % of ash	ASTM-D6349-00	DDF	05/30/2008	10:45
Strontium Oxide	0.09 % of ash	ASTM D6349-00	DDF	05/30/2008	10:45
Silicon Dioxide	56.58 % of ash	ASTM D6349-00	DDF	05/30/2008	10:45
Aluminum Oxide	22.98 % of ash	ASTM D6349-00	DDF	05/30/2008	10:45
Iron Oxide	10.79 % of ash	ASTM D6349-00	DDF	05/30/2008	10:45
Calcium Oxide	1.75 % of ash	ASTM D6349-00	DDF	05/30/2008	10:45
Magnesium Oxide	0.96 % of ash	ASTM D6349-00	DDF	05/30/2008	10:45
Sodium Oxide	0.46 % of ash	ASTM D6349-00	DDF	05/30/2008	10:45
Potassium Oxide	2.12 % of ash	ASTM D6349-00	DDF	05/30/2008	10:45
Titanium Dioxide	1.30 % of ash	ASTM D6349-00	DDF	05/30/2008	10:45
Sulfur in Ash as SO <sub>3</sub>	0.19 %	ASTM D1757A	DDF	05/30/2008	10:45
Phosphorous Pentoxide	0.18 % of ash	ASTM D6349-00	DDF	05/30/2008	10:45
Ash, As Determined Bases	93.28 %	ASTM D5142	MB	05/22/2008	15:31
Loss on Ignition	6.72 %	ASTM C25, SEC.19	MB	05/22/2008	15:31

These results relate only to the sample noted above.

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Ronald Andrae, Technical Director



Andrea Mengel, Environmental Lab Coordinator



## Certificate of Analysis

Customer: Mirant Mid-Atlantic, LLC  
Patrick Miglio  
21200 Martinsburg Road  
Dickerson, MD 20842

Report Date: June 17, 2008  
Page 1 of 2

Material Tested: Fly Ash  
Date Sampled: 05/30/2008 Time Sampled: 0:00  
Date Received: 06/06/2008  
Client Sample ID: Morgantown Ash Sample 5/30/08

HawkMtn WO #: 0806-00421-001  
Sampler: Client  
Sample Point ID: Morgantown Ash

Test Name	Test Results	Method	Technician	Analysis Date	Time
pH, Solid	10.7 su	SW846-9045	LAP	06/11/2008	12:00
Aluminum, Dry Weight	26100 mg/kg	SW846-6010B	DDF	06/12/2008	18:00
Antimony, Dry Weight	<5.0 mg/kg	SW846-6010B	DDF	06/12/2008	18:00
Arsenic, Dry Weight	95.1 mg/kg	SW846-6010B	DDF	06/12/2008	18:00
Barium, Dry Weight	235 mg/kg	SW846-6010B	DDF	06/12/2008	18:00
Beryllium, Dry Weight	10.2 mg/kg	SW846-6010B	DDF	06/12/2008	18:00
Boron, Dry Weight	309 mg/kg	SW846-6010B	DDF	06/12/2008	18:00
Cadmium, Dry Weight	<2.0 mg/kg	SW846-6010B	DDF	06/12/2008	18:00
Calcium, Dry Weight	15900 mg/kg	SW846 6010B	DDF	06/12/2008	18:00
Chromium, Dry Weight	81.4 mg/kg	SW846-6010B	DDF	06/12/2008	18:00
Cobalt, Dry Weight	24.8 mg/kg	SW846-6010B	DDF	06/12/2008	18:00
Copper, Dry Weight	123 mg/kg	SW846-6010B	DDF	06/12/2008	18:00
Iron, Dry Weight	36800 mg/kg	SW846-6010B	DDF	06/12/2008	18:00
Lead, Dry Weight	84.8 mg/kg	SW846-6010B	DDF	06/12/2008	18:00
Manganese, Dry Weight	79.7 mg/kg	SW846-6010B	DDF	06/12/2008	18:00
Mercury, Dry Weight	0.35 mg/kg	SW846-7471A	DDF	06/13/2008	10:30
Molybdenum, Dry Weight	16.7 mg/kg	SW846-6010B	DDF	06/12/2008	18:00
Nickel, Dry Weight	36.2 mg/kg	SW846-6010B	DDF	06/12/2008	18:00
Selenium, Dry Weight	21.6 mg/kg	SW846-6010B	DDF	06/12/2008	18:00
Silver, Dry Weight	1.18 mg/kg	SW846-6010B	DDF	06/12/2008	18:00
Sodium, Dry Weight	983 mg/kg	SW846-6010B	DDF	06/12/2008	18:00
Thallium, Dry Weight	<5.0 mg/kg	SW846-6010B	DDF	06/12/2008	18:00
Vanadium, Dry Weight	175 mg/kg	SW846-6010B	DDF	06/12/2008	18:00
Zinc, Dry Weight	85.0 mg/kg	SW846-6010B	DDF	06/12/2008	18:00
Acid Neutralization Potent	167 **	EPA 600/2-78-054	LAP	06/11/2008	14:20
SPLP, fluid #1	10.9 su, ending	SW846-1312; 9045	DDF	06/10/2008	10:00
Aluminum, leachate	3.07 mg/l	SW846-6010B	DDF	06/12/2008	18:00
Arsenic, Leachate	<0.10 mg/l	SW846-6010B	DDF	06/12/2008	18:00
Antimony, Leachate	<0.05 mg/l	SW846-6010B	DDF	06/12/2008	18:00
Barium, Leachate	0.233 mg/l	SW846-6010B	DDF	06/12/2008	18:00
Beryllium, Leachate	<0.010 mg/l	SW846-6010B	DDF	06/12/2008	18:00
Boron, Leachate	3.01 mg/l	SW846-6010B	DDF	06/12/2008	18:00
Cadmium, Leachate	<0.020 mg/l	SW846-6010B	DDF	06/12/2008	18:00



## Certificate of Analysis

Customer Mirant Mid-Atlantic, LLC  
Patrick Miglio  
21200 Martinsburg Road  
Dickerson, MD 20842

Report Date: June 17, 2008

Page 2 of 2

Material Tested: Fly Ash  
Date Sampled: 05/30/2008 Time Sampled: 0:00  
Date Received: 06/06/2008  
Client Sample ID: Morgantown Ash Sample 5/30/08

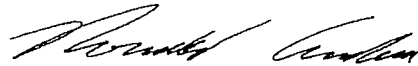
HawkMtn WO #: 0806-00421-001  
Sampler: Client  
Sample Point ID: Morgantown Ash

<u>Test Name</u>	<u>Test Results</u>	<u>Method</u>	<u>Technician</u>	<u>Analysis Date</u>	<u>Time</u>
Chromium, Leachate	0.101 mg/l	SW846-6010B	DDF	06/12/2008	18:00
Cobalt, Leachate	<0.020 mg/l	SW846-6010B	DDF	06/12/2008	18:00
Copper, Leachate	<0.02 mg/l	SW846-6010B	DDF	06/12/2008	18:00
Iron, Leachate	<0.10 mg/l	SW846-6010B	DDF	06/12/2008	18:00
Lead, Leachate	<0.10 mg/l	SW846-6010B	DDF	06/12/2008	18:00
Manganese, Leachate	<0.020 mg/l	SW846-6010B	DDF	06/12/2008	18:00
Mercury, Leachate	<0.001 mg/l	SW846-7470A	DDF	06/13/2008	10:30
Molybdenum, Leachate	0.44 mg/l	SW846-6010B	DDF	06/12/2008	18:00
Nickel, Leachate	<0.020 mg/l	SW846-6010B	DDF	06/12/2008	18:00
Selenium, Leachate	0.17 mg/l	SW846-6010B	DDF	06/12/2008	18:00
Silver, Leachate	<0.010 mg/l	SW846-6010B	DDF	06/12/2008	18:00
Sodium, Leachate	15.5 mg/l	SW846-6010B	DDF	06/12/2008	18:00
Thallium, Leachate	<0.05 mg/l	SW846-6010B	DDF	06/12/2008	18:00
Vanadium, Leachate	0.374 mg/l	SW846-6010B	DDF	06/12/2008	18:00
Zinc, Leachate	<0.025 mg/l	SW846-6010B	DDF	06/12/2008	18:00
SPLP Fluid #3, Water	10.9 su, ending	SW846-1312; 9045	DDF	06/10/2008	10:00
Fluoride	0.46 mg/l	EPA 300 HPLC IC	SAB	06/10/2008	16:00
Chloride, Leachate	5.73 mg/l	EPA 300 HPLC IC	SAB	06/10/2008	16:00
Nitrite, Leachate	<0.10 mg/l	EPA 300 HPLC IC	SAB	06/10/2008	16:00
Nitrate, Leachate	<0.50 mg/l	EPA 300 HPLC IC	SAB	06/10/2008	16:00
Sulfate, Leachate	813 mg/l	EPA 300 HPLC IC	SAB	06/10/2008	16:00
Sulfur Trioxide	0.45 %	ASTM D4239 (Induc	MB	06/11/2008	15:52

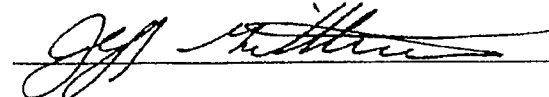
\*\* Tons of CaCO3 equivalent per 1,000 tons of material.

These results relate only to the sample noted above.

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without the written approval of HawkMtn Labs



Ronald Andrae, Technical Director



Jeff Gittleman, Lab Director

MIRANT

806-421-1

Pail

Pilkerton, Ricky S.

From: Spitzer, Elizabeth A.  
 Sent: Tuesday, June 03, 2008 10:47 AM  
 To: Pilkerton, Ricky S.  
 Cc: Greenwell, George D.; Garner, Larry D.; Miglio, Patrick D.  
 Subject: FW: Mirant coal ash testing

*Maria Tont*  
 6-6-08 1500

Importance: High

Attachments: Ash analysis mod 25r1.doc; Ash analysis mod 25r1.doc; Module 25 proposed As limit.pdf;  
 Ash analysis mod 25r1.doc

Ricky,

Attached is the list of analysis for the ash sample that was taken last Friday. Please print the attached, and include the following information on it:

Morgantown Ash Sample  
 Date Sampled:            *MAY 30, 2008*  
 Turn around time: Standard

*\* sample time not provided*

The ash sample needs to be sent to:

~~Hawk Mountain Labs~~  
 201 West Clay Avenue  
 West Hazleton, PA 18202

Our contact there is Cathy Reed. The phone number is 570 455-6011  
 Cathy's email is [creed@hawkmtnlabs.com](mailto:creed@hawkmtnlabs.com)

We can bill this to PO -- SVMA 9955.

Analysis should be sent to:  
 Pat Miglio  
 21200 Martinsburg, Rd.  
 Dickerson, MD 20842  
 (C) 202-365-6812  
[patrick.miglio@mirant.com](mailto:patrick.miglio@mirant.com)



Ash analysis mod  
 25r1.doc (346...

Danny told me you were taking this over to Stores today - correct?

*Am*

Thanks.  
Liz

From: Spitzer, Elizabeth A.  
 Sent: Thursday, May 29, 2008 10:14 AM  
 To: Greenwell, George D.; Garner, Larry D.; Knight, James W. (Billy)  
 Cc: Edmonds, Hula C.; Gouvela, Mark A.; Maddox, Terry  
 Subject: FW: Mirant coal ash testing  
 Importance: High

Danny,

We need to send out that last May sample you took and send it to Hawk Mountain lab in Pennsylvania. Attached is the list of analysis we need. Please print the attached, and include the following information on it:

Morgantown Ash Sample  
 Date Sampled:

Contact Information:

## Certificate of Analysis

Customer: Mirant Mid-Atlantic, LLC  
Patrick Miglio  
21200 Martinsburg Road  
Dickerson, MD 20842

Report Date: June 06, 2008

Page 1 of 2

Material Tested: Fly Ash  
Date Sampled: 05/20/2008 Time Sampled: 0:00  
Date Received: 06/02/2008

HawkMtn WO #: 0806-00280-001  
Sampler: Client  
Sample Point ID: Morgantown Ash

Client Sample ID: Morgantown Ash Sample #1 Silo 5/20/08

Test Name	Test Results	Method	Technician	Analysis Date	Time
pH, Solid	9.6 su	SW846-9045	LAP	06/03/2008	12:00
Aluminum, Dry Weight	26000 mg/kg	SW846-6010B	MC	06/03/2008	18:00
Antimony, Dry Weight	6.51 mg/kg	SW846-6010B	MC	06/03/2008	18:00
Arsenic, Dry Weight	109 mg/kg	SW846-6010B	MC	06/03/2008	18:00
Barium, Dry Weight	266 mg/kg	SW846-6010B	MC	06/03/2008	18:00
Beryllium, Dry Weight	10.4 mg/kg	SW846-6010B	MC	06/03/2008	18:00
Boron, Dry Weight	150 mg/kg	SW846-6010B	MC	06/03/2008	18:00
Cadmium, Dry Weight	<2.0 mg/kg	SW846-6010B	MC	06/03/2008	18:00
Calcium, Dry Weight	10300 mg/kg	SW846-6010B	MC	06/03/2008	18:00
Chromium, Dry Weight	77.2 mg/kg	SW846-6010B	MC	06/03/2008	18:00
Cobalt, Dry Weight	24.4 mg/kg	SW846-6010B	MC	06/03/2008	18:00
Copper, Dry Weight	91.9 mg/kg	SW846-6010B	MC	06/03/2008	18:00
Iron, Dry Weight	27200 mg/kg	SW846-6010B	MC	06/03/2008	18:00
Lead, Dry Weight	35.0 mg/kg	SW846-6010B	MC	06/03/2008	18:00
Manganese, Dry Weight	69.8 mg/kg	SW846-6010B	MC	06/03/2008	18:00
Mercury, Dry Weight	0.267 mg/kg	SW846-7471A	MC	06/04/2008	12:30
Molybdenum, Dry Weight	20.1 mg/kg	SW846-6010B	MC	06/03/2008	18:00
Nickel, Dry Weight	49.3 mg/kg	SW846-6010B	MC	06/03/2008	18:00
Selenium, Dry Weight	11.6 mg/kg	SW846-6010B	MC	06/03/2008	18:00
Silver, Dry Weight	<1.0 mg/kg	SW846-6010B	MC	06/03/2008	18:00
Sodium, Dry Weight	858 mg/kg	SW846-6010B	MC	06/03/2008	18:00
Thallium, Dry Weight	525 mg/kg	SW846-6010B	MC	06/03/2008	18:00
Vanadium, Dry Weight	153 mg/kg	SW846-6010B	MC	06/03/2008	18:00
Zinc, Dry Weight	79.6 mg/kg	SW846-6010B	MC	06/03/2008	18:00
Acid Neutralization Potent	12.5 **	EPA 600/2-78-054	LAP	06/06/2008	9:46
SPLP, fluid #1	9.8 su, ending	SW846-1312; 9045	DDF	06/03/2008	9:00
Aluminum, leachate	7.55 mg/l	SW846-6010B	MC	06/03/2008	18:00
Arsenic, Leachate	0.19 mg/l	SW846-6010B	MC	06/03/2008	18:00
Antimony, Leachate	0.05 mg/l	SW846-6010B	MC	06/18/2008	18:00
Barium, Leachate	0.139 mg/l	SW846-6010B	MC	06/03/2008	18:00
Beryllium, Leachate	<0.010 mg/l	SW846-6010B	MC	06/03/2008	18:00
Boron, Leachate	2.40 mg/l	SW846-6010B	MC	06/03/2008	18:00
Cadmium, Leachate	<0.020 mg/l	SW846-6010B	MC	06/03/2008	18:00
Chromium, Leachate	0.048 mg/l	SW846-6010B	MC	06/03/2008	18:00



## Certificate of Analysis

Customer: Mirant Mid-Atlantic, LLC  
 Patrick Miglio  
 21200 Martinsburg Road  
 Dickerson, MD 20842

Report Date: June 06, 2008  
 Page 2 of 2

Material Tested: Fly Ash  
 Date Sampled: 05/20/2008  
 Date Received: 06/02/2008  
 Time Sampled: 0:00

HawkMtn WO #: 0806-00280-001  
 Sampler: Client  
 Sample Point ID: Morgantown Ash

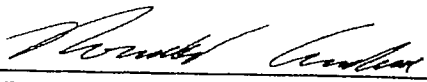
Client Sample ID: Morgantown Ash Sample #1 Silo 5/20/08

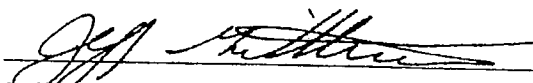
<u>Test Name</u>	<u>Test Results</u>	<u>Method</u>	<u>Technician</u>	<u>Analysis Date</u>	<u>Time</u>
Cobalt, Leachate	<0.020 mg/l	SW846-6010B	MC	06/03/2008	18:00
Copper, Leachate	<0.02 mg/l	SW846-6010B	MC	06/03/2008	18:00
Iron, Leachate	<0.10 mg/l	SW846-6010B	MC	06/03/2008	18:00
Lead, Leachate	<0.10 mg/l	SW846-6010B	MC	06/03/2008	18:00
Manganese, Leachate	<0.020 mg/l	SW846-6010B	MC	06/03/2008	18:00
Mercury, Leachate	<0.001 mg/l	SW846-7470A	MC	06/03/2008	18:00
Molybdenum, Leachate	0.73 mg/l	SW846-6010B	MC	06/04/2008	12:30
Nickel, Leachate	<0.020 mg/l	SW846-6010B	MC	06/03/2008	18:00
Selenium, Leachate	0.29 mg/l	SW846-6010B	MC	06/03/2008	18:00
Silver, Leachate	<0.010 mg/l	SW846-6010B	MC	06/03/2008	18:00
Sodium, Leachate	11.8 mg/l	SW846-6010B	MC	06/03/2008	18:00
Thallium, Leachate	<0.05 mg/l	SW846-6010B	MC	06/03/2008	18:00
Vanadium, Leachate	0.338 mg/l	SW846-6010B	MC	06/03/2008	18:00
Zinc, Leachate	<0.025 mg/l	SW846-6010B	MC	06/03/2008	18:00
SPLP Fluid #3, Water	9.9 su, ending	SW846-1312; 9045	DDF	06/03/2008	9:00
Fluoride	0.86 mg/l	EPA 300 HPLC IC	SAB	06/02/2008	11:00
Chloride, Leachate	<1.0 mg/l	EPA 300 HPLC IC	SAB	06/02/2008	11:00
Nitrite, Leachate	<0.10 mg/l	EPA 300 HPLC IC	SAB	06/02/2008	11:00
Nitrate, Leachate	<0.50 mg/l	EPA 300 HPLC IC	SAB	06/02/2008	11:00
Sulfate, Leachate	703 mg/l	EPA 300 HPLC IC	SAB	06/02/2008	11:00
Sulfur Trioxide	0.40 %	ASTM D4239 (Inducti	DDF	06/06/2008	14:40

\*\* Tons of CaCO3 equivalent per 1,000 tons of material.

These results relate only to the sample noted above.

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 Ronald Andrae, Technical Director

  
 Jeff Gittleman, Lab Director

806 - 280 - 1

**Mirant Fly Ash analysis**

Morgantown Ash Sample #1 silo

Date Sampled: May 20, 2008

Contact Information:

Pat Miglio  
21200 Martinsburg, Rd.  
Dickerson, MD 20842  
(C) 202-365-6812  
patrick.miglio@mirant.com

pH (as received basis)

alkalinity (as received basis)  $\approx$  W-pH-5

Total metals

Chemical requirements

Sulfur trioxide

Fly ash analysis – Pennsylvania Module 25A requirements (SPLP)  
 Please add the following to this list: **Beryllium, Cobalt, Silver, Thallium, and Vanadium**

5600-PM-MR0011 8/98

SECTION E: COAL ASH AND LEACHATE ANALYSES					
Coal Ash Generation Facility Name _____					
RESULTS OF ANALYSES <input type="checkbox"/> No pH adjustment <input type="checkbox"/> After pH Adjustment					
Constituents	Acceptable Methods of Analysis Indicate Method Used		Ash Dry Wt. Concentration. (mg/kg)	EPA's SW-846 Method 1312, SPLP Leachate Concentration (mg/L)	Maximum Acceptable Leachate Concentration (mg/L)
	EPA SW-846	Other Acceptable			
pH Solid	9045				
Aluminum	6010A, 7020				5.0
Antimony	6010A, 7040, 7041				0.15
Arsenic	6010A, 7060A, 7061A				1.25
Barium	6010A, 7080A, 7081				50
Boron		EPA 600/4-79-020			31.50
Cadmium	6010A, 7130, 7131A				0.13
Chromium	6010A, 7190, 7191				2.5
Copper	6010A, 7210, 7211				32.5
Iron	6010A, 7380, 7381				7.5
Lead	6010A, 7420, 7421				1.25
Manganese	6010A, 7460, 7461				1.25
Mercury	7470, 7471A				0.05
Molybdenum	6010A, 7480, 7481				4.38
Nickel	6010A, 7250				2.5
Selenium	6010A, 7740, 7741				1.00
Zinc	6010A, 7950, 7951				125
Sulfate	9035A, 9036A, 38A				2500
Chloride	9250, 9251A, 9252				2500
Sodium	6010A, 7770				
Acid Neutralizing Potential*	Method of Analysis		Calcium Carbonate Equivalence		
	<input type="checkbox"/> Neutralization Potential Test, DEP's Overburden Sampling and Testing Manual, Noll <i>et al.</i> <input type="checkbox"/> Other indicate method _____		Tons of CaCO <sub>3</sub> per 1,000 tons of ash _____	% CaCO <sub>3</sub> Dry Wt. _____	
Hydraulic Conductivity**	<input type="checkbox"/> ASTM D 5084-90 <input type="checkbox"/> Other indicate method _____		Permeability (cm/sec)		
	* Provide only when the requested beneficial use is as a liming agent for a soil substitute or soil additive or as alkaline addition. ** Provide only when the requested beneficial use is as a low-permeability material.				
Analytical Laboratory Name, Address _____			Analyst(s) Name _____		
_____			_____		
_____			Telephone No. _____		
Laboratory reports must be attached					

### Certificate of Analysis

Customer: Mirant Mid-Atlantic, LLC  
Patrick Miglio  
21200 Martinsburg Road  
Dickerson, MD 20842

Report Date: June 17, 2008

Page 1 of 2

Material Tested: Fly Ash  
Date Sampled: 04/30/2008 Time Sampled: 0:00  
Date Received: 06/06/2008  
Client Sample ID: Morgantown Ash Sample 4/30/08

HawkMtn WO #: 0806-00422-001  
Sampler: Client  
Sample Point ID: Morgantown Fly Ash

<u>Test Name</u>	<u>Test Results</u>	<u>Method</u>	<u>Technician</u>	<u>Analysis Date</u>	<u>Time</u>
pH, Solid	9.9 su	SW846-9045	LAP	06/11/2008	12:00
Aluminum, Dry Weight	25500 mg/kg	SW846-6010B	DDF	06/12/2008	18:00
Antimony, Dry Weight	<5.0 mg/kg	SW846-6010B	DDF	06/12/2008	18:00
Arsenic, Dry Weight	118 mg/kg	SW846-6010B	DDF	06/12/2008	18:00
Barium, Dry Weight	381 mg/kg	SW846-6010B	DDF	06/12/2008	18:00
Beryllium, Dry Weight	8.86 mg/kg	SW846-6010B	DDF	06/12/2008	18:00
Boron, Dry Weight	132 mg/kg	SW846-6010B	DDF	06/12/2008	18:00
Cadmium, Dry Weight	<2.0 mg/kg	SW846-6010B	DDF	06/12/2008	18:00
Calcium, Dry Weight	10800 mg/kg	SW846-6010B	DDF	06/12/2008	18:00
Chromium, Dry Weight	66.7 mg/kg	SW846-6010B	DDF	06/12/2008	18:00
Cobalt, Dry Weight	23.5 mg/kg	SW846-6010B	DDF	06/12/2008	18:00
Copper, Dry Weight	99.7 mg/kg	SW846-6010B	DDF	06/12/2008	18:00
Iron, Dry Weight	27000 mg/kg	SW846-6010B	DDF	06/12/2008	18:00
Lead, Dry Weight	68.8 mg/kg	SW846-6010B	DDF	06/12/2008	18:00
Manganese, Dry Weight	75.4 mg/kg	SW846-6010B	DDF	06/12/2008	18:00
Mercury, Dry Weight	0.32 mg/kg	SW846-6010B	DDF	06/12/2008	18:00
Molybdenum, Dry Weight	16.8 mg/kg	SW846-7471A	DDF	06/13/2008	10:30
Nickel, Dry Weight	34.6 mg/kg	SW846-6010B	DDF	06/12/2008	18:00
Selenium, Dry Weight	13.3 mg/kg	SW846-6010B	DDF	06/12/2008	18:00
Silver, Dry Weight	1.13 mg/kg	SW846-6010B	DDF	06/12/2008	18:00
Sodium, Dry Weight	681 mg/kg	SW846-6010B	DDF	06/12/2008	18:00
Thallium, Dry Weight	<5.0 mg/kg	SW846-6010B	DDF	06/12/2008	18:00
Vanadium, Dry Weight	139 mg/kg	SW846-6010B	DDF	06/12/2008	18:00
Zinc, Dry Weight	69.8 mg/kg	SW846-6010B	DDF	06/12/2008	18:00
Acid Neutralization Potent	208 **	SW846-6010B	DDF	06/12/2008	18:00
SPLP, fluid #1	10.3 su, ending	EPA 600/2-78-054	LAP	06/11/2008	14:20
Aluminum, leachate	11.5 mg/l	SW846-1312; 9045	DDF	06/10/2008	10:00
Arsenic, Leachate	0.17 mg/l	SW846-6010B	DDF	06/12/2008	18:00
Antimony, Leachate	<0.05 mg/l	SW846-6010B	DDF	06/12/2008	18:00
Barium, Leachate	0.418 mg/l	SW846-6010B	DDF	06/12/2008	18:00
Beryllium, Leachate	<0.010 mg/l	SW846-6010B	DDF	06/12/2008	18:00
Boron, Leachate	2.52 mg/l	SW846-6010B	DDF	06/12/2008	18:00
Cadmium, Leachate	<0.020 mg/l	SW846-6010B	DDF	06/12/2008	18:00





## Certificate of Analysis

Customer: Mirant Mid-Atlantic, LLC  
 Patrick Miglio  
 21200 Martinsburg Road  
 Dickerson, MD 20842

Report Date: June 17, 2008  
 Page 2 of 2

Material Tested: Fly Ash  
 Date Sampled: 04/30/2008 Time Sampled: 0:00  
 Date Received: 06/06/2008  
 Client Sample ID: Morgantown Ash Sample 4/30/08

HawkMtn WO #: 0806-00422-001  
 Sampler: Client  
 Sample Point ID: Morgantown Fly Ash

Test Name	Test Results	Method	Technician	Analysis Date	Time
Chromium, Leachate	0.030 mg/l	SW846-6010B	DDF	06/12/2008	18:00
Cobalt, Leachate	<0.020 mg/l	SW846-6010B	DDF	06/12/2008	18:00
Copper, Leachate	<0.02 mg/l	SW846-6010B	DDF	06/12/2008	18:00
Iron, Leachate	<0.10 mg/l	SW846-6010B	DDF	06/12/2008	18:00
Lead, Leachate	<0.10 mg/l	SW846-6010B	DDF	06/12/2008	18:00
Manganese, Leachate	<0.020 mg/l	SW846-6010B	DDF	06/12/2008	18:00
Mercury, Leachate	<0.001 mg/l	SW846-7470A	DDF	06/13/2008	10:30
Molybdenum, Leachate	0.68 mg/l	SW846-6010B	DDF	06/12/2008	18:00
Nickel, Leachate	<0.020 mg/l	SW846-6010B	DDF	06/12/2008	18:00
Selenium, Leachate	0.43 mg/l	SW846-6010B	DDF	06/12/2008	18:00
Silver, Leachate	<0.010 mg/l	SW846-6010B	DDF	06/12/2008	18:00
Sodium, Leachate	10.0 mg/l	SW846-6010B	DDF	06/12/2008	18:00
Thallium, Leachate	<0.05 mg/l	SW846-6010B	DDF	06/12/2008	18:00
Vanadium, Leachate	0.298 mg/l	SW846-6010B	DDF	06/12/2008	18:00
Zinc, Leachate	<0.025 mg/l	SW846-6010B	DDF	06/12/2008	18:00
SPLP Fluid #3, Water	10.2 su, ending	SW846-6010B	DDF	06/12/2008	18:00
Fluoride	1.18 mg/l	SW846-1312; 9045	DDF	06/10/2008	10:00
Chloride, Leachate	<1.0 mg/l	EPA 300 HPLC IC	SAB	06/10/2008	16:00
Nitrite, Leachate	<0.10 mg/l	EPA 300 HPLC IC	SAB	06/10/2008	16:00
Nitrate, Leachate	<0.50 mg/l	EPA 300 HPLC IC	SAB	06/10/2008	16:00
Sulfate, Leachate	688 mg/l	EPA 300 HPLC IC	SAB	06/10/2008	16:00
Sulfur Trioxide	0.40 %	EPA 300 HPLC IC	SAB	06/10/2008	16:00
		ASTM D4239 (Induc	MB	06/11/2008	15:52

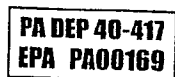
\*\* Tons of CaCO3 equivalent per 1,000 tons of material.

These results relate only to the sample noted above.

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*Ronald Andrae*  
 Ronald Andrae, Technical Director

*Jeff Gittleman*  
 Jeff Gittleman, Lab Director



Attn: Cathy Reed.

Mirant Fly Ash analysis

pH (as received basis)  
alkalinity (as received basis)

Total metals

Chemical requirements  
Sulfur trioxide

MIRANT

806-422-1

Victoria Tent

6-6-08 1500

Morgantown Fly Ash Sample

Date Sampled: April 2008

PO SVMA 9955

Send results to:

Pat Miglio

Md. Ash Mgmt, LLC

8301 Professional Place

Landover, Md. ~~2~~

patrick.miglio@mirant.com

AM

## Attachment C

## Mirant Mid-Atlantic, LLC Morgantown Generating Station - CCB Tonnage Report 2008

Year	By Product	Morgantown			
		MD. Ash Mgmt. Disposal Site	Onsite Use & Storage	Sold	Total
2004	Flyash	61.5		111.5	173
	Bottom Ash	6.6	8.7	53.5	68.8
	FGD Sludge				
	Other:				
2005	Flyash	52.8		88.4	141.2
	Bottom Ash	1.5		56.7	58.2
	FGD Sludge				
	Other:				
2006	Flyash	88.2		96.7	184.9
	Bottom Ash			59.9	59.9
	FGD Sludge				
	Other:				
2007	Flyash	133		45	178
	Bottom Ash	4	19	37	60
	FGD Sludge				
	Other:				
2008	Flyash	177.5		28.5	206
	Bottom Ash	30.9		32	62.9
	FGD Sludge				
	Other:				



Analysis Report

November 10, 2008

MIRANT AMERICAS ENERGY MKTG LP  
1155 PERIMETER CENTER WEST  
SUITE 130  
ATLANTA GA 30338

*Morgantown*

Client Sample ID: UNIT #2  
Date Sampled: Sep 25, 2008  
Date Received: Oct 24, 2008  
Product Description: COAL

Sample ID By: MIRANT  
Sample Taken At: MIRANT  
Sample Taken By: MIRANT  
Sample Wt.: MIRANT

SGS Minerals Sample ID: 405-0814475-001

Tests

**ANALYSIS OF ASH**

	<u>Result</u>	<u>Unit</u>	<u>Method</u>
Basis	Ignited	---	
Silicon Dioxide, SiO2	51.50	%	ASTM D3682
Aluminum Oxide, Al2O3	31.00	%	ASTM D3682
Iron Oxide, Fe2O3	10.30	%	ASTM D3682
Calcium Oxide, CaO	2.72	%	ASTM D3682
Titanium Dioxide, TiO2	1.32	%	ASTM D3682
Magnesium Oxide, MgO	0.61	%	ASTM D3682
Potassium Oxide, K2O	1.41	%	ASTM D3682
Sodium Oxide, Na2O	0.25	%	ASTM D3682
Sulfur Trioxide, SO3	0.30	%	ASTM D3682
Manganese Oxide, MnO2	0.02	%	ASTM D3682
Phosphorus Pentoxide, P2O5	0.07	%	ASTM D3682
Barium Oxide, BaO	0.03	%	ASTM D3682
Strontium Oxide, SrO	0.04	%	ASTM D3682
Undetermined	0.43	%	ASTM D3682
Sum of Oxides	99.57	%	ASTM D3682
Silica Value	79.07	---	ASTM D3682
Base Acid Ratio	0.18	---	ASTM D3682
T250 Temperature	2780	°F	ASTM D3682
Fouling Index	0.05	---	ASTM D3682
Type of Ash	BITUMINOUS	---	ASTM D3682

*Charles Adkins*

CHARLES\_ADKINS

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Analysis Report

November 10, 2008

MIRANT AMERICAS ENERGY MKTG LP
1155 PERIMETER CENTER WEST
SUITE 130
ATLANTA GA 30338

Client Sample ID: UNIT #2
Date Sampled: Sep 25, 2008
Date Received: Oct 24, 2008
Product Description: COAL

Sample ID By: MIRANT
Sample Taken At: MIRANT
Sample Taken By: MIRANT
Sample Wt.: MIRANT

SGS Minerals Sample ID: 405-0814475-001

Tests

TRACE ELEMENTS - DRY BASIS

Antimony, Sb
Molybdenum, Mo
Arsenic, As
Barium, Ba
Beryllium, Be
Cadmium, Cd
Chromium, Cr
Cobalt, Co
Copper, Cu
Lead, Pb
Lithium, Li
Manganese, Mn
Nickel, Ni
Silver, Ag
Strontium, Sr
Thallium, Tl
Tin, Sn
Vanadium, V
Zinc, Zn
Zirconium, Zr

Table with 3 columns: Result, Unit, Method. Contains data for various trace elements and their detection methods.

TRACE ELEMENTS BY GFAA

Selenium, Se

Handwritten signature: Charles Adkins
Printed name: CHARLES\_ADKINS

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Analysis Report

November 10, 2008

MIRANT AMERICAS ENERGY MKTG LP
1155 PERIMETER CENTER WEST
SUITE 130
ATLANTA GA 30338

Client Sample ID: UNIT #2
Date Sampled: Sep 25, 2008
Date Received: Oct 24, 2008
Product Description: COAL

Sample ID By: MIRANT
Sample Taken At: MIRANT
Sample Taken By: MIRANT
Sample Wt.:

SGS Minerals Sample ID: 405-0814475-002

Tests

Table with columns: Test Name, Result, Unit, Method. Includes rows for ANALYSIS OF ASH, Basis, Silicon Dioxide, Aluminum Oxide, Iron Oxide, Calcium Oxide, Titanium Dioxide, Magnesium Oxide, Potassium Oxide, Sodium Oxide, Sulfur Trioxide, Manganese Oxide, Phosphorus Pentoxide, Barium Oxide, Strontium Oxide, Undetermined, Sum of Oxides, Silica Value, Base Acid Ratio, T250 Temperature, Fouling Index, Type of Ash, and BITUMINOUS.

Handwritten signature: Charles Adkins
CHARLES\_ADKINS

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Analysis Report

November 10, 2008

MIRANT AMERICAS ENERGY MKTG LP
1155 PERIMETER CENTER WEST
SUITE 130
ATLANTA GA 30338

Page 2 of 2

Client Sample ID: UNIT #2
Date Sampled: Sep 25, 2008
Date Received: Oct 24, 2008
Product Description: COAL
Sample ID By: MIRANT
Sample Taken At: MIRANT
Sample Taken By: MIRANT
Sample Wt.: MIRANT

SGS Minerals Sample ID: 405-0814475-002

Tests

TRACE ELEMENTS - DRY BASIS

Table with 3 columns: Element Name, Result Unit, Method. Lists elements like Antimony, Molybdenum, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Lithium, Manganese, Nickel, Silver, Strontium, Thallium, Tin, Vanadium, Zinc, Zirconium, and Selenium with their respective results and methods.

TRACE ELEMENTS BY GFAA

Selenium, Se

Handwritten signature of Charles Adkins

CHARLES\_ADKINS

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# Analysis Report

November 10, 2008

MIRANT AMERICAS ENERGY MKTG LP  
1155 PERIMETER CENTER WEST  
SUITE 130  
ATLANTA GA 30338

Page 1 of 2

Client Sample ID: UNIT #1  
Date Sampled: Sep 26, 2008  
Date Received: Oct 24, 2008  
Product Description: COAL

Sample ID By: MIRANT  
Sample Taken At: MIRANT  
Sample Taken By: MIRANT  
Sample Wt.:

SGS Minerals Sample ID: 405-0814475-003

### Tests

ANALYSIS OF ASH	Result	Unit	Method
Basis	Ignited	---	
Silicon Dioxide, SiO2	51.60	%	ASTM D3682
Aluminum Oxide, Al2O3	27.50	%	ASTM D3682
Iron Oxide, Fe2O3	13.20	%	ASTM D3682
Calcium Oxide, CaO	2.45	%	ASTM D3682
Titanium Dioxide, TiO2	1.15	%	ASTM D3682
Magnesium Oxide, MgO	0.89	%	ASTM D3682
Potassium Oxide, K2O	1.70	%	ASTM D3682
Sodium Oxide, Na2O	0.45	%	ASTM D3682
Sulfur Trioxide, SO3	0.30	%	ASTM D3682
Manganese Oxide, MnO2	0.02	%	ASTM D3682
Phosphorus Pentoxide, P2O5	0.22	%	ASTM D3682
Barium Oxide, BaO	0.07	%	ASTM D3682
Strontium Oxide, SrO	0.07	%	ASTM D3682
Undetermined	0.07	%	ASTM D3682
Sum of Oxides	0.38	%	ASTM D3682
Silica Value	99.62	%	ASTM D3682
Base Acid Ratio	75.73	---	ASTM D3682
T250 Temperature	0.23	---	ASTM D3682
Fouling Index	2690	°F	ASTM D3682
Type of Ash	0.10	---	ASTM D3682
	BITUMINOUS	---	ASTM D3682

*Charles Adkins*

CHARLES\_ADKINS

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Analysis Report

November 10, 2008

MIRANT AMERICAS ENERGY MKTG LP
1155 PERIMETER CENTER WEST
SUITE 130
ATLANTA GA 30338

Client Sample ID: UNIT #1
Date Sampled: Sep 26, 2008
Date Received: Oct 24, 2008
Product Description: COAL

Sample ID By: MIRANT
Sample Taken At: MIRANT
Sample Taken By: MIRANT
Sample Wt.:

SGS Minerals Sample ID: 405-0814475-003

Tests

TRACE ELEMENTS - DRY BASIS

Table with 3 columns: Element Name, Result, Unit, Method. Lists various trace elements like Antimony, Arsenic, Barium, etc., with their respective results and methods.

TRACE ELEMENTS BY GFAA

Selenium, Se

Handwritten signature of Charles Adkins

CHARLES\_ADKINS

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Analysis Report

November 10, 2008

MIRANT AMERICAS ENERGY MKTG LP
1155 PERIMETER CENTER WEST
SUITE 130
ATLANTA GA 30338

Client Sample ID: UNIT #1
Date Sampled: Sep 26, 2008
Date Received: Oct 24, 2008
Product Description: COAL

Sample ID By: MIRANT
Sample Taken At: MIRANT
Sample Taken By: MIRANT
Sample Wt.:

SGS Minerals Sample ID: 405-0814475-004

Tests

ANALYSIS OF ASH

Table with 3 columns: Test Name, Result Unit, Method. Includes rows for Basis, Silicon Dioxide, Aluminum Oxide, Iron Oxide, Calcium Oxide, Titanium Dioxide, Magnesium Oxide, Potassium Oxide, Sodium Oxide, Sulfur Trioxide, Manganese Oxide, Phosphorus Pentoxide, Barium Oxide, Strontium Oxide, Undetermined, Sum of Oxides, Silica Value, Base Acid Ratio, T250 Temperature, Fouling Index, Type of Ash, and BITUMINOUS.

Handwritten signature of Charles Adkins

CHARLES\_ADKINS

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Analysis Report

November 10, 2008

MIRANT AMERICAS ENERGY MKTG LP
1155 PERIMETER CENTER WEST
SUITE 130
ATLANTA GA 30338

Client Sample ID: UNIT #1
Date Sampled: Sep 26, 2008
Date Received: Oct 24, 2008
Product Description: COAL

Sample ID By: MIRANT
Sample Taken At: MIRANT
Sample Taken By: MIRANT
Sample Wt.: MIRANT

SGS Minerals Sample ID: 405-0814475-004

Tests

TRACE ELEMENTS - DRY BASIS

Table with 3 columns: Element Name, Result, Unit, Method. Lists various trace elements like Antimony, Arsenic, Barium, etc., with their respective concentrations and testing methods.

TRACE ELEMENTS BY GFAA

Selenium, Se

Handwritten signature of Charles Adkins

CHARLES\_ADKINS

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Analysis Report

November 10, 2008

MIRANT AMERICAS ENERGY MKTG LP
1155 PERIMETER CENTER WEST
SUITE 130
ATLANTA GA 30338

Client Sample ID: UNIT #1
Date Sampled: Oct 6, 2008
Date Received: Oct 24, 2008
Product Description: COAL
Sample ID By: MIRANT
Sample Taken At: MIRANT
Sample Taken By: MIRANT
Sample Wt.:

SGS Minerals Sample ID: 405-0814475-005

Table with columns: Tests, Result, Unit, Method. Includes rows for ANALYSIS OF ASH, Basis, Silicon Dioxide, Aluminum Oxide, Iron Oxide, Calcium Oxide, Titanium Dioxide, Magnesium Oxide, Potassium Oxide, Sodium Oxide, Sulfur Trioxide, Manganese Oxide, Phosphorus Pentoxide, Barium Oxide, Strontium Oxide, Undetermined, Sum of Oxides, Silica Value, Base Acid Ratio, T250 Temperature, Fouling Index, Type of Ash, and BITUMINOUS.

Charles Adkins
CHARLES\_ADKINS

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Analysis Report

November 10, 2008

MIRANT AMERICAS ENERGY MKTG LP
1155 PERIMETER CENTER WEST
SUITE 130
ATLANTA GA 30338

Client Sample ID: UNIT #1
Date Sampled: Oct 6, 2008
Date Received: Oct 24, 2008
Product Description: COAL

Sample ID By: MIRANT
Sample Taken At: MIRANT
Sample Taken By: MIRANT
Sample Wt.:

SGS Minerals Sample ID: 405-0814475-005

Tests

TRACE ELEMENTS - DRY BASIS

Table with 3 columns: Element Name, Result, Unit, Method. Lists various trace elements like Antimony, Molybdenum, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Lithium, Manganese, Nickel, Silver, Strontium, Thallium, Tin, Vanadium, Zinc, Zirconium, and Selenium with their respective results and methods.

TRACE ELEMENTS BY GFAA

Selenium, Se

Handwritten signature of Charles Adkins

CHARLES\_ADKINS

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Analysis Report

November 10, 2008

MIRANT AMERICAS ENERGY MKTG LP
1155 PERIMETER CENTER WEST
SUITE 130
ATLANTA GA 30338

Client Sample ID: NORTH DUCT
Date Sampled: Oct 7, 2008
Date Received: Oct 24, 2008
Product Description: COAL

Sample ID By: MIRANT
Sample Taken At: MIRANT
Sample Taken By: MIRANT
Sample Wt.:

SGS Minerals Sample ID: 405-0814475-006

Tests

Table with 3 columns: Test Name, Result Unit, Method. Includes rows for ANALYSIS OF ASH, Basis, Silicon Dioxide, Aluminum Oxide, Iron Oxide, Calcium Oxide, Titanium Dioxide, Magnesium Oxide, Potassium Oxide, Sodium Oxide, Sulfur Trioxide, Manganese Oxide, Phosphorus Pentoxide, Barium Oxide, Strontium Oxide, Undetermined, Sum of Oxides, Silica Value, Base Acid Ratio, T250 Temperature, Fouling Index, Type of Ash, and BITUMINOUS.

Handwritten signature of Charles Adkins

CHARLES\_ADKINS

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Analysis Report

November 10, 2008

MIRANT AMERICAS ENERGY MKTG LP
1155 PERIMETER CENTER WEST
SUITE 130
ATLANTA GA 30338

Client Sample ID: NORTH DUCT
Date Sampled: Oct 7, 2008
Date Received: Oct 24, 2008
Product Description: COAL

Sample ID By: MIRANT
Sample Taken At: MIRANT
Sample Taken By: MIRANT
Sample Wt.: MIRANT

SGS Minerals Sample ID: 405-0814475-006

Tests

TRACE ELEMENTS - DRY BASIS

Antimony, Sb
Molybdenum, Mo
Arsenic, As
Barium, Ba
Beryllium, Be
Cadmium, Cd
Chromium, Cr
Cobalt, Co
Copper, Cu
Lead, Pb
Lithium, Li
Manganese, Mn
Nickel, Ni
Silver, Ag
Strontium, Sr
Thallium, Tl
Tin, Sn
Vanadium, V
Zinc, Zn
Zirconium, Zr

Table with 3 columns: Result, Unit, Method. Contains data for various trace elements and their detection methods.

TRACE ELEMENTS BY GFAA
Selenium, Se

Handwritten signature of Charles Adkins

CHARLES\_ADKINS

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Analysis Report

November 10, 2008

MIRANT AMERICAS ENERGY MKTG LP
1155 PERIMETER CENTER WEST
SUITE 130
ATLANTA GA 30338

Client Sample ID: SOUTH DUCT
Date Sampled: Oct 8, 2008
Date Received: Oct 24, 2008
Product Description: COAL
Sample ID By: MIRANT
Sample Taken At: MIRANT
Sample Taken By: MIRANT
Sample Wt.:

SGS Minerals Sample ID: 405-0814475-007

Tests

ANALYSIS OF ASH

Table with 3 columns: Basis, Result Unit, Method. Lists various ash components like Silicon Dioxide, Aluminum Oxide, etc., with their respective percentages and testing methods (ASTM D3682).

Handwritten signature of Charles Adkins

CHARLES\_ADKINS

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Analysis Report

November 10, 2008

MIRANT AMERICAS ENERGY MKTG LP
1155 PERIMETER CENTER WEST
SUITE 130
ATLANTA GA 30338

Client Sample ID: SOUTH DUCT
Date Sampled: Oct 8, 2008
Date Received: Oct 24, 2008
Product Description: COAL

Sample ID By: MIRANT
Sample Taken At: MIRANT
Sample Taken By: MIRANT
Sample Wt.:

SGS Minerals Sample ID: 405-0814475-007

Tests

TRACE ELEMENTS - DRY BASIS

- Antimony, Sb
Molybdenum, Mo
Arsenic, As
Barium, Ba
Beryllium, Be
Cadmium, Cd
Chromium, Cr
Cobalt, Co
Copper, Cu
Lead, Pb
Lithium, Li
Manganese, Mn
Nickel, Ni
Silver, Ag
Strontium, Sr
Thallium, Tl
Tin, Sn
Vanadium, V
Zinc, Zn
Zirconium, Zr

Table with 3 columns: Result, Unit, Method. Contains data for various trace elements and their concentrations.

TRACE ELEMENTS BY GFAA
Selenium, Se

Handwritten signature of Charles Adkins

CHARLES ADKINS

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Analysis Report

November 10, 2008

MIRANT AMERICAS ENERGY MKTG LP
1155 PERIMETER CENTER WEST
SUITE 130
ATLANTA GA 30338

Client Sample ID: NORTH DUCT
Date Sampled: Oct 9, 2008
Date Received: Oct 24, 2008
Product Description: COAL

Sample ID By: MIRANT
Sample Taken At: MIRANT
Sample Taken By: MIRANT
Sample Wt.:

SGS Minerals Sample ID: 405-0814475-008

Tests

ANALYSIS OF ASH

Table with 3 columns: Test Name, Result Unit, Method. Includes rows for Basis, Silicon Dioxide, Aluminum Oxide, Iron Oxide, Calcium Oxide, Titanium Dioxide, Magnesium Oxide, Potassium Oxide, Sodium Oxide, Sulfur Trioxide, Manganese Oxide, Phosphorus Pentoxide, Barium Oxide, Strontium Oxide, Undetermined, Sum of Oxides, Silica Value, Base Acid Ratio, T250 Temperature, Fouling Index, Type of Ash, and BITUMINOUS.

Charles Adkins (handwritten signature)

CHARLES\_ADKINS

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Analysis Report

November 10, 2008

MIRANT AMERICAS ENERGY MKTG LP
1155 PERIMETER CENTER WEST
SUITE 130
ATLANTA GA 30338

Client Sample ID: NORTH DUCT
Date Sampled: Oct 9, 2008
Date Received: Oct 24, 2008
Product Description: COAL

Sample ID By: MIRANT
Sample Taken At: MIRANT
Sample Taken By: MIRANT
Sample Wt.:

SGS Minerals Sample ID: 405-0814475-008

Tests

TRACE ELEMENTS - DRY BASIS

- Antimony, Sb
Molybdenum, Mo
Arsenic, As
Barium, Ba
Beryllium, Be
Cadmium, Cd
Chromium, Cr
Cobalt, Co
Copper, Cu
Lead, Pb
Lithium, Li
Manganese, Mn
Nickel, Ni
Silver, Ag
Strontium, Sr
Thallium, Tl
Tin, Sn
Vanadium, V
Zinc, Zn
Zirconium, Zr

Table with 3 columns: Result, Unit, Method. Contains data for various trace elements and their detection limits.

TRACE ELEMENTS BY GFAA

- Selenium, Se

Handwritten signature of Charles Adkins

CHARLES\_ADKINS

SGS North America Inc. Minerals Services Division
P.O. Box 808 Charleston WV 25323 t (304)-925-6631 f (304)-925-8877 www.sgs.com/minerals

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Analysis Report

November 10, 2008

MIRANT AMERICAS ENERGY MKTG LP
1155 PERIMETER CENTER WEST
SUITE 130
ATLANTA, GA 30338

Client Sample ID: SOUTH DUCT
Date Sampled: Oct 10, 2008
Date Received: Oct 24, 2008
Product Description: COAL

Sample ID By: MIRANT
Sample Taken At: MIRANT
Sample Taken By: MIRANT
Sample Wt.:

SGS Minerals Sample ID: 405-0814475-009

Tests

ANALYSIS OF ASH

Table with 3 columns: Basis, Result Unit, Method. Rows include Silicon Dioxide, Aluminum Oxide, Iron Oxide, Calcium Oxide, Titanium Dioxide, Magnesium Oxide, Potassium Oxide, Sodium Oxide, Sulfur Trioxide, Manganese Oxide, Phosphorus Pentoxide, Barium Oxide, Strontium Oxide, Undetermined, Sum of Oxides, Silica Value, Base Acid Ratio, T250 Temperature, Fouling Index, Type of Ash.

Handwritten signature of Charles Adkins

CHARLES\_ADKINS

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Sample Taken At: MIRANT
Sample Taken By: MIRANT
Sample Wt.:

SGS Minerals Sample ID: 405-0814475-009

Tests

TRACE ELEMENTS - DRY BASIS

- Antimony, Sb
Molybdenum, Mo
Arsenic, As
Barium, Ba
Beryllium, Be
Cadmium, Cd
Chromium, Cr
Cobalt, Co
Copper, Cu
Lead, Pb
Lithium, Li
Manganese, Mn
Nickel, Ni
Silver, Ag
Strontium, Sr
Thallium, Tl
Tin, Sn
Vanadium, V
Zinc, Zn
Zirconium, Zr

Table with 3 columns: Result, Unit, Method. Lists trace elements and their concentrations in µg/g, all using ASTM D3683 (Mod) method.

TRACE ELEMENTS BY GFAA

- Selenium, Se

Handwritten signature of Charles Adkins

CHARLES\_ADKINS

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## Attachment C

## Mirant Mid-Atlantic, LLC Morgantown Generating Station - CCB Tonnage Report 2008

Year	By Product	Morgantown			
		MD. Ash Mgmt. Disposal Site	Onsite Use & Storage	Sold	Total
2004	Flyash	61.5		111.5	173
	Bottom Ash	6.6	8.7	53.5	68.8
	FGD Sludge				
	Other:				
2005	Flyash	52.8		88.4	141.2
	Bottom Ash	1.5		56.7	58.2
	FGD Sludge				
	Other:				
2006	Flyash	88.2		96.7	184.9
	Bottom Ash			59.9	59.9
	FGD Sludge				
	Other:				
2007	Flyash	133		45	178
	Bottom Ash	4	19	37	60
	FGD Sludge				
	Other:				
2008	Flyash	177.5		28.5	206
	Bottom Ash	30.9		32	62.9
	FGD Sludge				
	Other:				