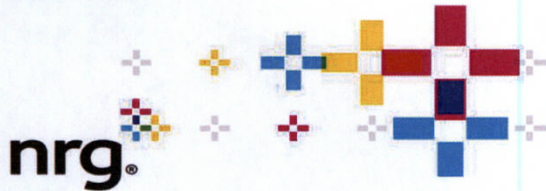


MD Ash Management
25100 Chalk Point Road,
Aquasco, Maryland 20608
T (301) 843-4127 C (240) 375-3740



Certified Mail/Return Receipt Requested

Mr. Edward M. Dexter, Administrator
Solid Waste Program, Suite 605
Maryland Department of the Environment
1800 Washington Blvd.
Baltimore, MD. 21230

RECEIVED
MAR 4 2013
SOLID WASTE
OPERATIONS DIVISION

February 28, 2013

Re: 2012 CCB Tonnage Reports for GenOn's Generating Facilities in Maryland

Dear Mr. Dexter,

Pursuant to COMAR 26.04.10.08, enclosed please find the 2012 CCB tonnage reports for GenOn Mid-Atlantic, LLC's Morgantown and Dickerson Generating Stations, and GenOn Chalk Point, LLC's Chalk Point Generating Station.

If you have any questions regarding these reports, please contact me at 301-843-4127, or at elizabeth.spitzer@nrgenergy.com.

Effective December 14, 2012, NRG Energy, Inc. (NRG) and GenOn Energy, Inc. (GenOn) have combined and will retain the name NRG Energy, Inc. As a result of the merger, all GenOn entities are now wholly owned subsidiaries of NRG. Although the parent corporations, NRG and GenOn, have merged, the entities have not merged or changed names. You can find additional information about NRG and the merger on the website: www.nrgenergy.com

Regards,

Elizabeth A. Spitzer
Environmental Analyst
NRG Energy

Enclosures

**Coal Combustion Byproducts (CCBs)
Annual Generator Tonnage Report
Instructions for Calendar Year 2012**

The following is general information relating to the requirement for reporting quantities of coal combustion byproducts (CCBs) that were managed in the State of Maryland during calendar year 2012. Please answer the questions on the form provided, attaching additional information and any requested supplemental information to the back of the form. Note that the form for this year requires both volume and weight of the CCBs produced. If you know one of these parameters but not the others, for example, you have the tonnage produced but not the volume, you may calculate the other parameter; however, please provide the calculations and assumptions that you used in your estimate. Questions can be directed to the Solid Waste Program at (410) 537-3315 or via email at edexter@mde.state.md.us.

I. Background. This requirement that generators of 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. 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. CCBs 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.”*

B. Applicability. If you or your company meets 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. **THIS INCLUDES CCBS THAT WERE NOT SEPARATELY COLLECTED BUT WERE PRODUCED BY THE BURNING OF COAL AND WERE DIRECTLY CONTRIBUTED TO A PRODUCT, such as cement.** Where the amount cannot be directly measured, estimates based on the amount of coal burned can be used. The method of determining the volume of CCBs produced must be described.

III. Required Information. The following information must be provided to the Department by March 1, 2013:

A. Contact information:

Facility Name: Morgantown Generating Station

Name of Permit Holder: GenOn Mid-Atlantic, LLC

Facility Address: 12620 Crain Highway
Street

Facility Address: Newburg Maryland 20664
City State Zip

County: Charles

Contact Information (Person filing report or Environmental Manager)

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

Contact Name: Elizabeth A. Spitzer

Contact Title: Environmental Analyst

Contact Address: 25100 Chalk Point Rd
Street

Contact Address: Aquasco Maryland 20608
City State Zip

Contact Email: elizabeth.spitzer@nrgenergy.com

Contact Telephone No.: 301-843-4127 Contact Fax No.: 301-843-4156

For questions on how to complete this form, please contact the Solid Waste Program at 410-537-3315

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

See Attachment A.

C. The volume and weight of CCBs generated during calendar year 2012, including an identification of the different types of CCBs generated and the volume of each type generated. If the space provided is insufficient, please attach additional pages in a similar format. If converting from volume to weight or weight to volume, please provide your calculations and assumptions.

Table I: Volume and Weight of CCBs Generated for Calendar Year 2012: Please note the change to this table from previous years, to include both the volume and weight of the types of CCBs your facility produces.

Volume and Weight of CCBs Generated for Calendar Year 2012				
<u>Flyash</u> Type of CCB	<u>Bottom Ash</u> Type of CCB	<u>On-Spec Gypsum</u> Type of CCB	<u>Off Spec Gypsum</u> Type of CCB	<u>WWTP Fines</u> Type of CCB
109,303	32,649	90,431	2,168	1,290
Volume of CCB, in Cubic Yards	Volume of CCB, in Cubic Yards	Volume of CCB, in Cubic Yards	Volume of CCB, in Cubic Yards	Volume of CCB, in Cubic Yards
109,303	32,649	176,652	4,234	2,520
Weight of CCB, in Tons	Weight of CCB, in Tons	Weight of CCB, in Tons	Weight of CCB, in Tons	Weight of CCB, in Tons

Additional notes:

CCB Tonnages are reported in dry short tons. CCB volumes are reported in dry Cubic Yards.

WWTP Tons represent fines from the Flue Gas Desulfurization's Waste Water Treatment

Volumes of Flyash in Dry Cubic Yards are calculated from dry short tons using a density of 1.0 Tons/Dry CY.

Volumes of Bottom Ash in Dry Cubic Yards are calculated from dry short tons using a density of 1.0 Tons/Dry CY.

Volumes of On-Spec Gypsum, Off-Spec Gypsum and WWTP Fines are calculated from dry short tons using a density of 1.95 Tons/Dry CY.

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

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

F. A description of how you disposed of or used your CCBs in calendar year 2012, identifying:

(a) The types and volume of CCBs disposed of or used (if different than described in Paragraph C above) including any CCBs stored during the previous calendar year, the location of disposal, mine reclamation and use sites, and the type and volume of CCBs disposed of or used at each site:

FLYASH: A total of 109,303 tons of flyash were generated at Morgantown in 2012, of which 48,858 tons were sold to SEFA, headquartered in Columbia, SC, 36,402 tons were disposed of at the Brandywine Ash Site, located in Brandywine, Md., and 24,043 tons were stored on-site at the STAR Facility ash storage dome for future sale.

BOTTOM ASH: Of the 32,649 tons of bottom ash generated in 2012, 26,027 tons were sold to SEFA, headquartered in Columbia, SC, and 6,622 tons were disposed of at the Brandywine Ash Site, located in Brandywine, Md.

On-Spec Gypsum: 176,652 tons of On-Spec Gypsum were generated at Morgantown in 2012, and 1,538 tons were stored on-site at the end of 2011. Of this total, 159,312 tons were transported by barge to LaFarge, located in Buchanan, NY for use in the manufacture of wallboard, and a total of 18,878 tons were stored on site at the end of 2012.

Off-Spec Gypsum generated in 2012 was 4,234 tons, all of which was disposed of at Waste Management's Amelia Landfill located in Jetersville, Va.

WWTP Fines produced in 2012 was 2,520 tons, all of which was disposed of at Waste Management's Amelia Landfill located in Jetersville, Va.

and (b) The different uses by type and volume of CCBs:

FlyAsh:

Volume: 48,858 tons sold

Uses: 1,102 tons used for Portland Cement, all of which was applied to a beneficial use in Md.

44,770 tons used as a Supplementary cementitious material for concrete and concrete products, 8,743 tons of which were used in Md.

2,986 tons used in grout applications, 1,843 tons of which were used in Md.

Bottom Ash:

Volume: 26,027 tons sold,

Uses: 26,027 tons used as aggregate for block and concrete products, 24,519 of which was applied to a beneficial use in Md.

On-Spec Gypsum:

Volume: 159,312 tons sold

Use: Wallboard

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

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

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

FlyAsh: Approximately 109,000 tons to be generated, with about 50,000 tons to be sold to SEFA, headquartered in Columbia, SC, and 40,000 tons to be sent for disposal at the Brandywine Ash Site, located in Brandywine, Md., and 19,000 tons accumulating On-Site.

Bottom Ash: Anticipate 33,000 tons to be generated, of which 26,000 will be sold to SEFA, located in Columbia, SC, and 7,000 tons will be disposed of at the Brandywine ash site in Prince George’s County, Md. .

On-Spec Gypsum: Anticipate 177,000 tons to be generated of which 165,000 tons to be transported by barge to LaFarge, located in Buchanan, NY, and 12,000 tons to be stored on site at the Morgantown station.

Off-Spec Gypsum: Approximate 4,200 tons to be generated and disposed of at Waste Management’s Amelia Landfill located in Jetersville, Va.

WWTP Fines: Approximately 2,500 tons to be generated and disposed of at Waste

Management's Amelia Landfill located in Jetersville, Va.

and (b) The different intended uses by type and volume of CCBs.

FlyAsh:

Volume:49,000 tons sold

Uses: 1,000 tons used for Portland Cement

45,000 tons used as a Supplementary cementitious material for concrete and concrete products.

3,000 tons used as grout

Bottom Ash:

Volume:26,000 tons sold

Uses: 26,000 tons used as aggregate for block and concrete products

On-Spec Gypsum:

Volume:165,000 tons sold

Use: Wallboard

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

Attachment A

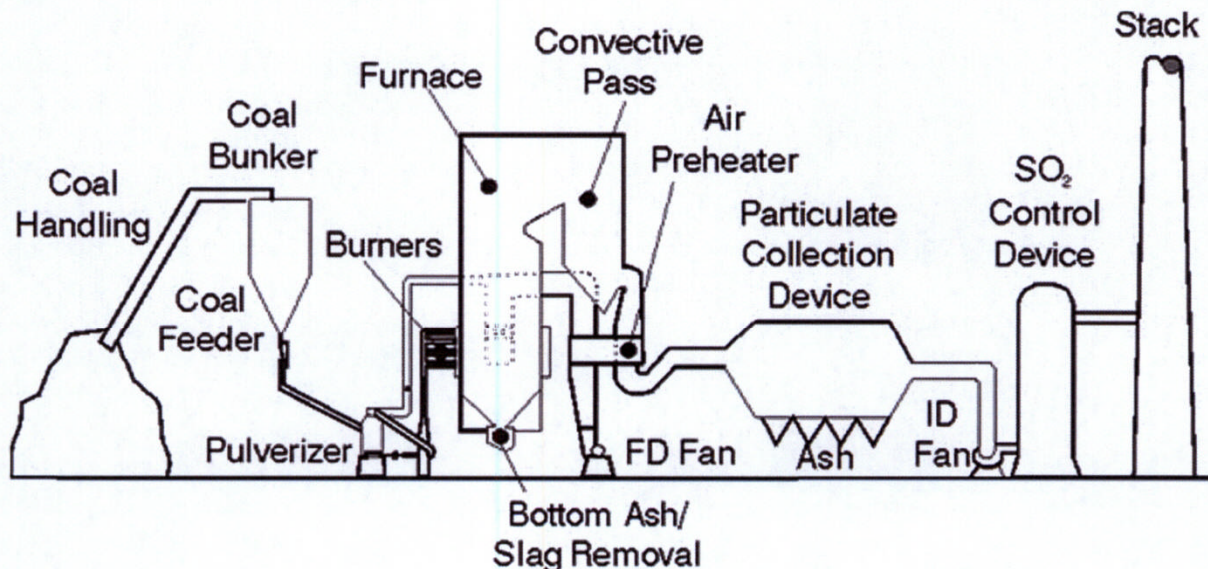
Attachment A

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_x burners with Separated Over-Fired Air (SOFA) and Selective Catalytic Reduction (SCR) for control of oxides of nitrogen (NO_x); and electrostatic precipitators (ESP) for the control of particulate matter. A Wet Scrubber (FGD) was installed and went in service on both units in late 2009. Units 1 & 2 exhausts through the scrubber stack or, when the FGD is not in service, through separate 700 ft. stacks.

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.

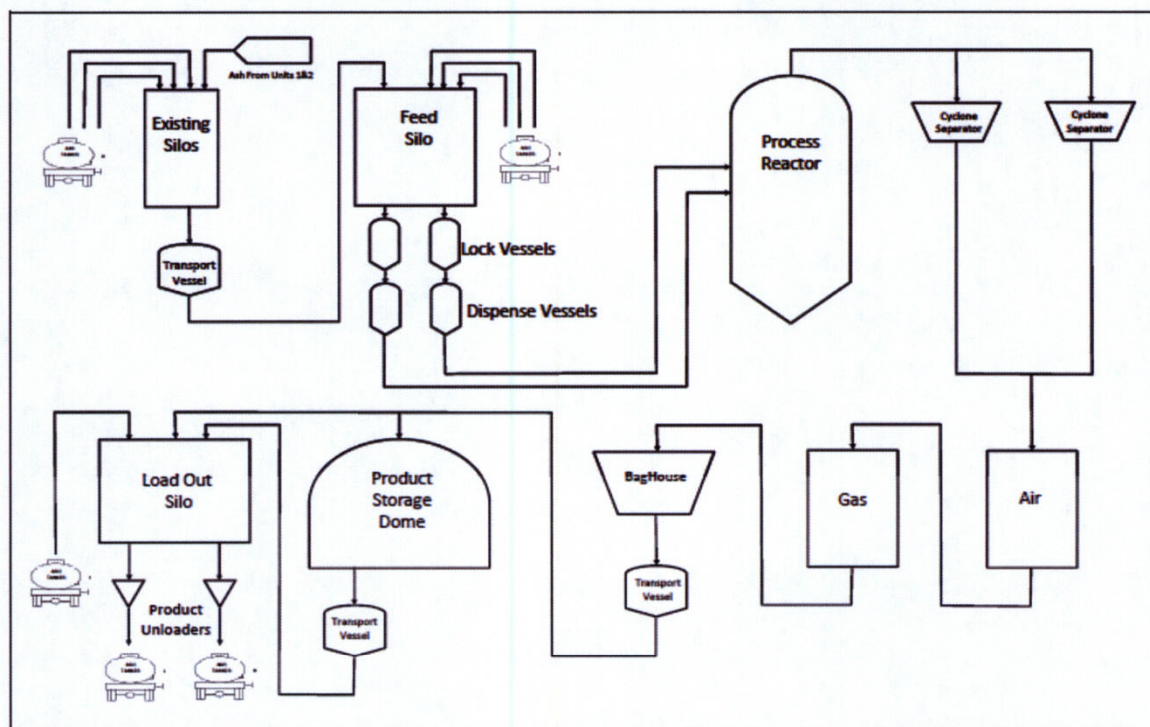
The illustration below shows a simple schematic diagram for a typical pulverized coal combustion system. The coal is prepared by grinding to a very fine consistency for combustion.



Attachment A

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 10% ash, of which 65%–85% is 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. Silo fly ash is either off-loaded for disposal at the Brandywine Ash Site located 29 miles north in Prince Georges County, or it is sent to the Staged Turbulent Air Reactor (STAR) facility (which is located on-site) where volatiles are burned off from the ash to make it more marketable. Ash from the STAR facility is stored in on-site storage silos until it can be sold. A diagram of the STAR process is shown below.



The bottom ash is conveyed out of the bottom of the boiler via a drag chain conveyor. The bottom ash is then either prepared for sale, or sent to the Brandywine Ash Site, where it can be used in the construction of flyash disposal cells.

Gypsum is a byproduct of SO₂ removal by the Flue Gas Desulfurization (FGD) system, commonly known as a scrubber. Morgantown uses wet scrubbers for SO₂ removal. Wet scrubbing uses a slurry of limestone alkaline sorbent to remove SO₂, - as well as some mercury

contaminants - from the air stream. The byproduct - gypsum - is conveyed to a storage dome temporarily and then sent via barge to Buchanan, New York to be made into wallboard. Gypsum that doesn't meet the specifications for wallboard production is transported for disposal to Waste Management's Amelia Landfill in Virginia. Waste Water Treatment Plant Fines (WWTP Fines) are removed from the Scrubber's WWTP as needed and transported to Waste Management's Amelia Landfill in Virginia for disposal.

Attachment B



Microbac Laboratories, Inc.

Baltimore Division
2101 Van Deman Street • Baltimore, MD 21224

Phone: 410-633-1800
Fax: 410-633-6553
www.microbac.com

COVER LETTER

John Williams
GenOn-Morgantown
Morgantown Generating Station, 12620 Crain Hwy
Newburg, MD 20664
RE: Morgantown-Fly Ash

October 23, 2012
Report No.: 12J0742

The report of analyses contains test results for samples received at Microbac Laboratories, Inc., Baltimore Division on 10/09/2012 13:45.

The enclosed results were obtained from and applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report has been reviewed and meet the applicable project and certification specific requirements, unless otherwise noted.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories, Inc.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

This Data Package contains the following:

- This Cover Page
- Sample Summary
- Test Results
- Certifications/Notes and Definitions
- Cooler Receipt Log
- Chain of Custody

10/23/2012

Final report reviewed by:

Mark B. Horan/Laboratory Director

Report issue date

All samples received in proper condition and results conform to ISO 17025 and TNI NELAC standards unless otherwise noted.

If we have not met or exceeded your expectations, please contact Mark Horan, Managing Director, at 410-633-1800 You may also contact Sean Hyde, Chief Operating Officer at sean.hyde@microbac.com or James Nokes, President james.nokes@microbac.com



Microbac Laboratories, Inc.

Baltimore Division

2101 Van Deman Street • Baltimore, MD 21224

Phone: 410-633-1800
Fax: 410-633-6553
www.microbac.com

CERTIFICATE OF ANALYSIS

GenOn-Morgantown Morgantown Generating Station, 12620 Crain Hwy Newburg, MD 20664	Project: Morgantown-Fly Ash Project Number: Morgantown-Fly Ash Project Manager: John Williams	Report: 12J0742 Reported: 10/23/2012 10:04
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SAMPLE SUMMARY

Sample ID	Laboratory ID	Matrix	Type	Date Sampled	Date Received
Unit F1 Fly Ash Sample	12J0742-01	Solid	Grab	10/05/2012 09:30	10/09/2012 13:45
Unit F2 Fly Ash Sample	12J0742-02	Solid	Grab	10/05/2012 09:45	10/09/2012 13:45
Bottom Ash Sample	12J0742-03	Solid	Grab	09/19/2012 08:15	10/09/2012 13:45
Gypsum Sample	12J0742-04	Solid	Grab	09/19/2012 08:00	10/09/2012 13:45
WWTP Filter Cake Sample	12J0742-05	Solid	Grab	09/19/2012 08:10	10/09/2012 13:45

Microbac Laboratories, Inc., Baltimore Division

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Mark B. Horan, Laboratory Director

Original Lab Report



Microbac Laboratories, Inc.

Baltimore Division

2101 Van Deman Street • Baltimore, MD 21224

Phone: 410-633-1800

Fax: 410-633-6553

www.microbac.com

CERTIFICATE OF ANALYSIS

GenOn-Morgantown	Project: Morgantown-Fly Ash	Report: 12J0742
Morgantown Generating Station, 12620 Crain Hwy	Project Number: Morgantown-Fly Ash	Reported: 10/23/2012 10:04
Newburg, MD 20664	Project Manager: John Williams	

Unit F1 Fly Ash Sample

12J0742-01 (Solid) Sampled: 10/05/2012 09:30; Type: Grab

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
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Microbac Laboratories, Inc., Baltimore Division

Wet Chemistry

% Solids	100.0	0.05	% by Weight	101512 0658	101612 0704	LCR	SM (20) 2540G	
Chloride	95	10	mg/kg dry	101712 0749	101812 1235	BMC	SM(20)4500Cl-C(M)	D
pH	4.22	0.100	pH Units	101612 0717	101612 1156	LCR	EPA 9045D	
Sulfate as SO4	5600	500	mg/kg dry	101612 0800	101612 1145	LCR	ASTM D516-02(M)	D

Mercury, Total by EPA 7000 Series Methods

Mercury	0.28	0.025	mg/kg dry	101112 1537	101212 1536	APS	SW846 7471B	
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Metals, Total by EPA 6000/7000 Series Methods

Silver	ND	2.5	mg/kg dry	101712 1043	101812 1148	APS	EPA 6010B	
Aluminum	28000	12	mg/kg dry	101712 1043	101812 1148	APS	EPA 6010B	
Arsenic	130	4.9	mg/kg dry	101712 1043	101812 1148	APS	EPA 6010B	
Boron	180	25	mg/kg dry	101712 1043	101812 1148	APS	EPA 6010B	
Barium	540	2.5	mg/kg dry	101712 1043	101812 1148	APS	EPA 6010B	
Beryllium	5.1	0.98	mg/kg dry	101712 1043	101812 1148	APS	EPA 6010B	
Calcium	11000	25	mg/kg dry	101712 1043	101812 1148	APS	EPA 6010B	
Cadmium	2.3	0.49	mg/kg dry	101712 1043	101812 1148	APS	EPA 6010B	
Cobalt	11	2.5	mg/kg dry	101712 1043	101812 1148	APS	EPA 6010B	
Chromium	46	2.5	mg/kg dry	101712 1043	101812 1148	APS	EPA 6010B	
Copper	75	2.5	mg/kg dry	101712 1043	101812 1148	APS	EPA 6010B	
Iron	30000	9.8	mg/kg dry	101712 1043	101812 1148	APS	EPA 6010B	
Potassium	4400	25	mg/kg dry	101712 1043	101812 1148	APS	EPA 6010B	
Lithium	47	4.9	mg/kg dry	101712 1043	101812 1148	APS	EPA 6010B	
Magnesium	2200	25	mg/kg dry	101712 1043	101812 1148	APS	EPA 6010B	
Manganese	71	2.5	mg/kg dry	101712 1043	101812 1148	APS	EPA 6010B	
Molybdenum	ND	4.9	mg/kg dry	101712 1043	101812 1148	APS	EPA 6010B	
Sodium	1600	490	mg/kg dry	101712 1043	101812 1148	APS	EPA 6010B	

Microbac Laboratories, Inc., Baltimore Division

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Mark B. Horan, Laboratory Director

Original Lab Report



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Baltimore Division

2101 Van Deman Street • Baltimore, MD 21224

Phone: 410-633-1800

Fax: 410-633-6553

www.microbac.com

CERTIFICATE OF ANALYSIS

GenOn-Morgantown Morgantown Generating Station, 12620 Crain Hwy Newburg, MD 20664	Project: Morgantown-Fly Ash Project Number: Morgantown-Fly Ash Project Manager: John Williams	Report: 12J0742 Reported: 10/23/2012 10:04
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Unit F1 Fly Ash Sample

12J0742-01 (Solid) Sampled: 10/05/2012 09:30; Type: Grab

Analyte	Result	Reporting		Units	Prepared	Analyzed	Analyst	Method	Notes
		Limit							

Microbac Laboratories, Inc., Baltimore Division

Metals, Total by EPA 6000/7000 Series Methods

Analyte	Result	Limit	Units	Prepared	Analyzed	Analyst	Method
Nickel	32	4.9	mg/kg dry	101712 1043	101812 1148	APS	EPA 6010B
Lead	33	4.9	mg/kg dry	101712 1043	101812 1148	APS	EPA 6010B
Antimony	ND	4.9	mg/kg dry	101712 1043	102212 1437	PBK	EPA 6020
Selenium	ND	4.9	mg/kg dry	101712 1043	101812 1148	APS	EPA 6010B
Thallium	ND	9.8	mg/kg dry	101712 1043	101812 1148	APS	EPA 6010B
Vanadium	140	2.5	mg/kg dry	101712 1043	101812 1148	APS	EPA 6010B
Zinc	65	2.5	mg/kg dry	101712 1043	101812 1148	APS	EPA 6010B

TCLP Extraction by EPA 1311

Analyte	Result	Limit	Units	Prepared	Analyzed	Analyst	Method
TCLP Extraction	COMPLETED		N/A	101512 1730	101612 1230	BMC	EPA 1311

TCLP Metals by 6000/7000 Series Methods

Analyte	Result	Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
Silver	ND	0.20	mg/L	101712 1406	101812 1020	APS	EPA 6010B	D
Arsenic	0.72	0.20	mg/L	101712 1406	101812 1020	APS	EPA 6010B	D
Barium	ND	0.50	mg/L	101712 1406	101812 1020	APS	EPA 6010B	D
Cadmium	ND	0.20	mg/L	101712 1406	101812 1020	APS	EPA 6010B	D
Chromium	0.40	0.20	mg/L	101712 1406	101812 1020	AP\$	EPA 6010B	D
Mercury	ND	0.0020	mg/L	101712 1501	101812 1614	AP\$	EPA 7470A	D
Lead	ND	0.20	mg/L	101712 1406	101812 1020	APS	EPA 6010B	D
Selenium	ND	0.20	mg/L	101712 1406	101812 1020	APS	EPA 6010B	D

Microbac Laboratories, Inc., Baltimore Division

Mark B. Horan, Laboratory Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Original Lab Report



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2101 Van Deman Street • Baltimore, MD 21224

Phone: 410-633-1800

Fax: 410-633-6553

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CERTIFICATE OF ANALYSIS

GenOn-Morgantown	Project: Morgantown-Fly Ash	Report: 12J0742
Morgantown Generating Station, 12620 Crain Hwy	Project Number: Morgantown-Fly Ash	Reported: 10/23/2012 10:04
Newburg, MD 20664	Project Manager: John Williams	

Unit F2 Fly Ash Sample

12J0742-02 (Solid) Sampled: 10/05/2012 09:45; Type: Grab

Analyte	Result	Reporting		Prepared	Analyzed	Analyst	Method	Notes
		Limit	Units					

Microbac Laboratories, Inc., Baltimore Division

Wet Chemistry

% Solids	100.0	0.05	% by Weight	101512 0658	101612 0704	LCR	SM (20) 2540G	
Chloride	30	10	mg/kg dry	101712 0749	101812 1235	BMC	SM(20)4500CI-C(M)	D
pH	4.04	0.100	pH Units	101612 0717	101612 1156	LCR	EPA 9045D	
Sulfate as SO4	9300	490	mg/kg dry	101612 0800	101612 1145	LCR	ASTM D516-02(M)	D

Mercury, Total by EPA 7000 Series Methods

Mercury	0.26	0.023	mg/kg dry	101112 1537	101212 1549	APS	SW846 7471B	
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Metals, Total by EPA 6000/7000 Series Methods

Silver	ND	2.5	mg/kg dry	101712 1043	101812 1209	APS	EPA 6010B	
Aluminum	28000	12	mg/kg dry	101712 1043	101812 1209	APS	EPA 6010B	
Arsenic	120	4.9	mg/kg dry	101712 1043	101812 1209	APS	EPA 6010B	
Boron	170	25	mg/kg dry	101712 1043	101812 1209	APS	EPA 6010B	
Barium	540	2.5	mg/kg dry	101712 1043	101812 1209	APS	EPA 6010B	
Beryllium	5.1	0.99	mg/kg dry	101712 1043	101812 1209	APS	EPA 6010B	
Calcium	10000	25	mg/kg dry	101712 1043	101812 1209	APS	EPA 6010B	
Cadmium	2.2	0.49	mg/kg dry	101712 1043	101812 1209	APS	EPA 6010B	
Cobalt	11	2.5	mg/kg dry	101712 1043	101812 1209	APS	EPA 6010B	
Chromium	44	2.5	mg/kg dry	101712 1043	101812 1209	APS	EPA 6010B	
Copper	73	2.5	mg/kg dry	101712 1043	101812 1209	APS	EPA 6010B	
Iron	29000	9.9	mg/kg dry	101712 1043	101812 1209	APS	EPA 6010B	
Potassium	4400	25	mg/kg dry	101712 1043	101812 1209	APS	EPA 6010B	
Lithium	45	4.9	mg/kg dry	101712 1043	101812 1209	APS	EPA 6010B	
Magnesium	2200	25	mg/kg dry	101712 1043	101812 1209	APS	EPA 6010B	
Manganese	71	2.5	mg/kg dry	101712 1043	101812 1209	APS	EPA 6010B	
Molybdenum	ND	4.9	mg/kg dry	101712 1043	101812 1209	APS	EPA 6010B	
Sodium	1600	490	mg/kg dry	101712 1043	101812 1209	APS	EPA 6010B	
Nickel	30	4.9	mg/kg dry	101712 1043	101812 1209	APS	EPA 6010B	

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Mark B. Horan, Laboratory Director

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CERTIFICATE OF ANALYSIS

GenOn-Morgantown	Project: Morgantown-Fly Ash	Report: 12J0742
Morgantown Generating Station, 12620 Crain Hwy	Project Number: Morgantown-Fly Ash	Reported: 10/23/2012 10:04
Newburg, MD 20664	Project Manager: John Williams	

Unit F2 Fly Ash Sample

12J0742-02 (Solid) Sampled: 10/05/2012 09:45; Type: Grab

Analyte	Result	Reporting		Units	Prepared	Analyzed	Analyst	Method	Notes
		Limit							

Microbac Laboratories, Inc., Baltimore Division

Metals, Total by EPA 6000/7000 Series Methods

Analyte	Result	Limit	Units	Prepared	Analyzed	Analyst	Method
Lead	31	4.9	mg/kg dry	101712 1043	101812 1209	APS	EPA 6010B
Antimony	ND	4.9	mg/kg dry	101712 1043	102212 1451	PBK	EPA 6020
Selenium	ND	4.9	mg/kg dry	101712 1043	101812 1209	APS	EPA 6010B
Thallium	ND	9.9	mg/kg dry	101712 1043	101812 1209	APS	EPA 6010B
Vanadium	130	2.5	mg/kg dry	101712 1043	101812 1209	APS	EPA 6010B
Zinc	61	2.5	mg/kg dry	101712 1043	101812 1209	APS	EPA 6010B

TCLP Extraction by EPA 1311

Analyte	Result	Limit	Units	Prepared	Analyzed	Analyst	Method
TCLP Extraction	COMPLETED		N/A	101512 1730	101612 1230	BMC	EPA 1311

TCLP Metals by 6000/7000 Series Methods

Analyte	Result	Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
Silver	ND	0.20	mg/L	101712 1406	101812 1032	APS	EPA 6010B	D
Arsenic	0.65	0.20	mg/L	101712 1406	101812 1032	APS	EPA 6010B	D
Barium	ND	0.50	mg/L	101712 1406	101812 1032	APS	EPA 6010B	D
Cadmium	ND	0.20	mg/L	101712 1406	101812 1032	APS	EPA 6010B	D
Chromium	0.50	0.20	mg/L	101712 1406	101812 1032	APS	EPA 6010B	D
Mercury	ND	0.0020	mg/L	101712 1501	101812 1625	APS	EPA 7470A	D
Lead	ND	0.20	mg/L	101712 1406	101812 1032	APS	EPA 6010B	D
Selenium	ND	0.20	mg/L	101712 1406	101812 1032	APS	EPA 6010B	D

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Fax: 410-633-6553

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Morgantown Generating Station, 12620 Crain Hwy	Project Number: Morgantown-Fly Ash	Reported: 10/23/2012 10:04
Newburg, MD 20664	Project Manager: John Williams	

Bottom Ash Sample

12J0742-03 (Solid) Sampled: 09/19/2012 08:15; Type: Grab

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
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Microbac Laboratories, Inc., Baltimore Division

Wet Chemistry

% Solids	69.77	0.05	% by Weight	101512 0658	101612 0705	LCR	SM (20) 2540G	
Chloride	29	14	mg/kg dry	101712 0749	101812 1235	BMC	SM(20)4500Cl-C(M)	D
pH	9.03	0.100	pH Units	101612 0717	101612 1156	LCR	EPA 9045D	
Sulfate as SO4	920	29	mg/kg dry	101612 0800	101612 1145	LCR	ASTM D516-02(M)	D

Mercury, Total by EPA 7000 Series Methods

Mercury	ND	0.035	mg/kg dry	101112 1537	101212 1552	APS	SW846 7471B	
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Metals, Total by EPA 6000/7000 Series Methods

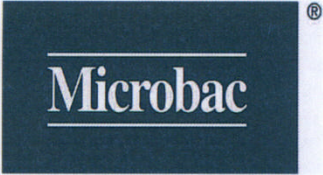
Silver	ND	3.4	mg/kg dry	101712 1043	101812 1213	APS	EPA 6010B	
Aluminum	14000	17	mg/kg dry	101712 1043	101812 1213	APS	EPA 6010B	
Arsenic	ND	6.8	mg/kg dry	101712 1043	101812 1213	APS	EPA 6010B	
Boron	42	34	mg/kg dry	101712 1043	101812 1213	APS	EPA 6010B	
Barium	120	3.4	mg/kg dry	101712 1043	101812 1213	APS	EPA 6010B	
Beryllium	ND	1.4	mg/kg dry	101712 1043	101812 1213	APS	EPA 6010B	
Calcium	5600	34	mg/kg dry	101712 1043	101812 1213	APS	EPA 6010B	
Cadmium	1.9	0.68	mg/kg dry	101712 1043	101812 1213	APS	EPA 6010B	
Cobalt	ND	3.4	mg/kg dry	101712 1043	101812 1213	APS	EPA 6010B	
Chromium	16	3.4	mg/kg dry	101712 1043	101812 1213	APS	EPA 6010B	
Copper	7.3	3.4	mg/kg dry	101712 1043	101812 1213	APS	EPA 6010B	
Iron	33000	14	mg/kg dry	101712 1043	101812 1213	APS	EPA 6010B	
Potassium	1600	34	mg/kg dry	101712 1043	101812 1213	APS	EPA 6010B	
Lithium	16	6.8	mg/kg dry	101712 1043	101812 1213	APS	EPA 6010B	
Magnesium	790	34	mg/kg dry	101712 1043	101812 1213	APS	EPA 6010B	
Manganese	54	3.4	mg/kg dry	101712 1043	101812 1213	APS	EPA 6010B	
Molybdenum	ND	6.8	mg/kg dry	101712 1043	101812 1213	APS	EPA 6010B	
Sodium	880	680	mg/kg dry	101712 1043	101812 1213	APS	EPA 6010B	
Nickel	ND	6.8	mg/kg dry	101712 1043	101812 1213	APS	EPA 6010B	

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Morgantown Generating Station, 12620 Crain Hwy	Project Number: Morgantown-Fly Ash	Reported: 10/23/2012 10:04
Newburg, MD 20664	Project Manager: John Williams	

Bottom Ash Sample

12J0742-03 (Solid) Sampled: 09/19/2012 08:15; Type: Grab

Analyte	Result	Reporting		Units	Prepared	Analyzed	Analyst	Method	Notes
		Limit							

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Metals, Total by EPA 6000/7000 Series Methods

Lead	ND	6.8	mg/kg dry	101712 1043	101812 1213	APS	EPA 6010B
Antimony	ND	6.8	mg/kg dry	101712 1043	102212 1453	PBK	EPA 6020
Selenium	ND	6.8	mg/kg dry	101712 1043	101812 1213	APS	EPA 6010B
Thallium	ND	14	mg/kg dry	101712 1043	101812 1213	APS	EPA 6010B
Vanadium	30	3.4	mg/kg dry	101712 1043	101812 1213	APS	EPA 6010B
Zinc	7.9	3.4	mg/kg dry	101712 1043	101812 1213	APS	EPA 6010B

TCLP Extraction by EPA 1311

TCLP Extraction	COMPLETED	N/A	101512 1730	101612 1230	BMC	EPA 1311
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TCLP Metals by 6000/7000 Series Methods

Silver	ND	0.20	mg/L	101712 1406	101812 1036	APS	EPA 6010B	D
Arsenic	ND	0.20	mg/L	101712 1406	101812 1036	APS	EPA 6010B	D
Barium	0.54	0.50	mg/L	101712 1406	101812 1036	APS	EPA 6010B	D
Cadmium	ND	0.20	mg/L	101712 1406	101812 1036	APS	EPA 6010B	D
Chromium	ND	0.20	mg/L	101712 1406	101812 1036	APS	EPA 6010B	D
Mercury	ND	0.0020	mg/L	101712 1501	101812 1627	APS	EPA 7470A	D
Lead	ND	0.20	mg/L	101712 1406	101812 1036	APS	EPA 6010B	D
Selenium	ND	0.20	mg/L	101712 1406	101812 1036	APS	EPA 6010B	D

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Morgantown Generating Station, 12620 Crain Hwy	Project Number: Morgantown-Fly Ash	Reported: 10/23/2012 10:04
Newburg, MD 20664	Project Manager: John Williams	

Gypsum Sample

12J0742-04 (Solid) Sampled: 09/19/2012 08:00; Type: Grab

Analyte	Result	Reporting		Prepared	Analyzed	Analyst	Method	Notes
		Limit	Units					

Microbac Laboratories, Inc., Baltimore Division

Wet Chemistry

% Solids	78.21	0.05	% by Weight	101512 0658	101612 0705	LCR	SM (20) 2540G	
Chloride	64	13	mg/kg dry	101712 0749	101812 1235	BMC	SM(20)4500Cl-C(M)	D
pH	7.54	0.100	pH Units	101612 0717	101612 1156	LCR	EPA 9045D	
Sulfate as SO4	14000	640	mg/kg dry	101612 0800	101612 1145	LCR	ASTM D516-02(M)	D

Mercury, Total by EPA 7000 Series Methods

Mercury	0.56	0.032	mg/kg dry	101112 1537	101212 1554	APS	SW846 7471B	
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Metals, Total by EPA 6000/7000 Series Methods

Silver	ND	3.1	mg/kg dry	101712 1043	101812 1230	APS	EPA 6010B	
Aluminum	1100	16	mg/kg dry	101712 1043	101812 1230	APS	EPA 6010B	
Arsenic	ND	6.2	mg/kg dry	101712 1043	101812 1230	APS	EPA 6010B	
Boron	140	31	mg/kg dry	101712 1043	101812 1230	APS	EPA 6010B	
Barium	42	3.1	mg/kg dry	101712 1043	101812 1230	APS	EPA 6010B	
Beryllium	ND	1.2	mg/kg dry	101712 1043	101812 1230	APS	EPA 6010B	
Calcium	240000	310	mg/kg dry	101712 1043	101812 1445	APS	EPA 6010B	
Cadmium	ND	0.62	mg/kg dry	101712 1043	101812 1230	APS	EPA 6010B	
Cobalt	ND	3.1	mg/kg dry	101712 1043	101812 1230	APS	EPA 6010B	
Chromium	3.5	3.1	mg/kg dry	101712 1043	101812 1230	APS	EPA 6010B	
Copper	ND	3.1	mg/kg dry	101712 1043	101812 1230	APS	EPA 6010B	
Iron	1300	12	mg/kg dry	101712 1043	101812 1230	APS	EPA 6010B	
Potassium	340	31	mg/kg dry	101712 1043	101812 1230	APS	EPA 6010B	
Lithium	ND	6.2	mg/kg dry	101712 1043	101812 1230	APS	EPA 6010B	
Magnesium	600	31	mg/kg dry	101712 1043	101812 1230	APS	EPA 6010B	
Manganese	3.8	3.1	mg/kg dry	101712 1043	101812 1230	APS	EPA 6010B	
Molybdenum	ND	6.2	mg/kg dry	101712 1043	101812 1230	APS	EPA 6010B	
Sodium	1100	620	mg/kg dry	101712 1043	101812 1230	APS	EPA 6010B	
Nickel	ND	6.2	mg/kg dry	101712 1043	101812 1230	APS	EPA 6010B	

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Fax: 410-633-6553

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CERTIFICATE OF ANALYSIS

GenOn-Morgantown Morgantown Generating Station, 12620 Crain Hwy Newburg, MD 20664	Project: Morgantown-Fly Ash Project Number: Morgantown-Fly Ash Project Manager: John Williams	Report: 12J0742 Reported: 10/23/2012 10:04
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Gypsum Sample

12J0742-04 (Solid) Sampled: 09/19/2012 08:00; Type: Grab

Analyte	Result	Reporting		Units	Prepared	Analyzed	Analyst	Method	Notes
		Limit							

Microbac Laboratories, Inc., Baltimore Division

Metals, Total by EPA 6000/7000 Series Methods

Analyte	Result	Limit	Units	Prepared	Analyzed	Analyst	Method
Lead	ND	6.2	mg/kg dry	101712 1043	101812 1230	APS	EPA 6010B
Antimony	ND	6.2	mg/kg dry	101712 1043	102212 1501	PBK	EPA 6020
Selenium	ND	6.2	mg/kg dry	101712 1043	101812 1230	APS	EPA 6010B
Thallium	ND	12	mg/kg dry	101712 1043	101812 1230	APS	EPA 6010B
Vanadium	4.2	3.1	mg/kg dry	101712 1043	101812 1230	APS	EPA 6010B
Zinc	5.3	3.1	mg/kg dry	101712 1043	101812 1230	APS	EPA 6010B

TCLP Extraction by EPA 1311

TCLP Extraction	COMPLETED	N/A	101512 1730	101612 1230	BMC	EPA 1311
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TCLP Metals by 6000/7000 Series Methods

Analyte	Result	Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
Silver	ND	0.20	mg/L	101712 1406	101812 1046	APS	EPA 6010B	D
Arsenic	ND	0.20	mg/L	101712 1406	101812 1046	APS	EPA 6010B	D
Barium	ND	0.50	mg/L	101712 1406	101812 1046	APS	EPA 6010B	D
Cadmium	ND	0.20	mg/L	101712 1406	101812 1046	APS	EPA 6010B	D
Chromium	ND	0.20	mg/L	101712 1406	101812 1046	APS	EPA 6010B	D
Mercury	ND	0.0020	mg/L	101712 1501	101812 1630	APS	EPA 7470A	D
Lead	ND	0.20	mg/L	101712 1406	101812 1046	APS	EPA 6010B	D
Selenium	ND	0.20	mg/L	101712 1406	101812 1046	APS	EPA 6010B	D

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GenOn-Morgantown	Project: Morgantown-Fly Ash	Report: 12J0742
Morgantown Generating Station, 12620 Crain Hwy	Project Number: Morgantown-Fly Ash	Reported: 10/23/2012 10:04
Newburg, MD 20664	Project Manager: John Williams	

WWTP Filter Cake Sample

12J0742-05 (Solid) Sampled: 09/19/2012 08:10; Type: Grab

Analyte	Result	Reporting		Prepared	Analyzed	Analyst	Method	Notes
		Limit	Units					

Microbac Laboratories, Inc., Baltimore Division

Wet Chemistry

% Solids	62.84	0.05	% by Weight	101512 0658	101612 0705	LCR	SM (20) 2540G	
Chloride	3900	16	mg/kg dry	101712 0749	101812 1235	BMC	SM(20)4500Cl-C(M)	D
pH	8.77	0.100	pH Units	101612 0717	101612 1156	LCR	EPA 9045D	
Sulfate as SO4	420	16	mg/kg dry	101612 0800	101612 1145	LCR	ASTM D516-02(M)	D

Mercury, Total by EPA 7000 Series Methods

Mercury	7.6	0.18	mg/kg dry	101112 1537	101212 1622	APS	SW846 7471B	
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Metals, Total by EPA 6000/7000 Series Methods

Silver	ND	3.9	mg/kg dry	101712 1043	101812 1234	APS	EPA 6010B	
Aluminum	11000	20	mg/kg dry	101712 1043	101812 1234	APS	EPA 6010B	
Arsenic	ND	78	mg/kg dry	101712 1043	101812 1449	APS	EPA 6010B	
Boron	1300	39	mg/kg dry	101712 1043	101812 1234	APS	EPA 6010B	
Barium	240	3.9	mg/kg dry	101712 1043	101812 1234	APS	EPA 6010B	
Beryllium	ND	1.6	mg/kg dry	101712 1043	101812 1234	APS	EPA 6010B	
Calcium	160000	390	mg/kg dry	101712 1043	101812 1449	APS	EPA 6010B	
Cadmium	2.0	0.78	mg/kg dry	101712 1043	101812 1234	APS	EPA 6010B	
Cobalt	13	3.9	mg/kg dry	101712 1043	101812 1234	APS	EPA 6010B	
Chromium	39	3.9	mg/kg dry	101712 1043	101812 1234	APS	EPA 6010B	
Copper	25	3.9	mg/kg dry	101712 1043	101812 1234	APS	EPA 6010B	
Iron	13000	16	mg/kg dry	101712 1043	101812 1234	APS	EPA 6010B	
Potassium	2000	39	mg/kg dry	101712 1043	101812 1234	APS	EPA 6010B	
Lithium	13	7.8	mg/kg dry	101712 1043	101812 1234	APS	EPA 6010B	
Magnesium	14000	39	mg/kg dry	101712 1043	101812 1234	APS	EPA 6010B	
Manganese	1000	3.9	mg/kg dry	101712 1043	101812 1234	APS	EPA 6010B	
Molybdenum	ND	7.8	mg/kg dry	101712 1043	101812 1234	APS	EPA 6010B	
Sodium	1300	780	mg/kg dry	101712 1043	101812 1234	APS	EPA 6010B	
Nickel	62	7.8	mg/kg dry	101712 1043	101812 1234	APS	EPA 6010B	

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Morgantown Generating Station, 12620 Crain Hwy	Project Number: Morgantown-Fly Ash	Reported: 10/23/2012 10:04
Newburg, MD 20664	Project Manager: John Williams	

WWTP Filter Cake Sample

12J0742-05 (Solid) Sampled: 09/19/2012 08:10; Type: Grab

Analyte	Result	Reporting		Units	Prepared	Analyzed	Analyst	Method	Notes
		Limit							

Microbac Laboratories, Inc., Baltimore Division

Metals, Total by EPA 6000/7000 Series Methods

Analyte	Result	Limit	Units	Prepared	Analyzed	Analyst	Method
Lead	10	7.8	mg/kg dry	101712 1043	101812 1234	APS	EPA 6010B
Antimony	ND	7.8	mg/kg dry	101712 1043	102212 1503	PBK	EPA 6020
Selenium	ND	78	mg/kg dry	101712 1043	101812 1449	APS	EPA 6010B
Thallium	ND	16	mg/kg dry	101712 1043	101812 1234	APS	EPA 6010B
Vanadium	56	3.9	mg/kg dry	101712 1043	101812 1234	APS	EPA 6010B
Zinc	66	3.9	mg/kg dry	101712 1043	101812 1234	APS	EPA 6010B

TCLP Extraction by EPA 1311

Analyte	Result	Limit	Units	Prepared	Analyzed	Analyst	Method
TCLP Extraction	COMPLETED		N/A	101512 1730	101612 1230	BMC	EPA 1311

TCLP Metals by 6000/7000 Series Methods

Analyte	Result	Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
Silver	ND	0.20	mg/L	101712 1406	101812 1050	APS	EPA 6010B	D
Arsenic	ND	0.20	mg/L	101712 1406	101812 1050	APS	EPA 6010B	D
Barium	ND	0.50	mg/L	101712 1406	101812 1050	APS	EPA 6010B	D
Cadmium	ND	0.20	mg/L	101712 1406	101812 1050	APS	EPA 6010B	D
Chromium	0.24	0.20	mg/L	101712 1406	101812 1050	APS	EPA 6010B	D
Mercury	ND	0.0020	mg/L	101712 1501	101812 1632	APS	EPA 7470A	D
Lead	ND	0.20	mg/L	101712 1406	101812 1050	APS	EPA 6010B	D
Selenium	0.20	0.20	mg/L	101712 1406	101812 1050	APS	EPA 6010B	D

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GenOn-Morgantown Morgantown Generating Station, 12620 Crain Hwy Newburg, MD 20664	Project: Morgantown-Fly Ash Project Number: Morgantown-Fly Ash Project Manager: John Williams	Report: 12J0742 Reported: 10/23/2012 10:04
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Project Requested Certification(s):

A2LA (Environmental)
State of Pennsylvania (NELAC)

Analyte Certification Exception Summary

Microbac Laboratories, Inc., Baltimore Division

Matrix: Solid

SM (20) 2540G

% Solids: No Certification

All analysis performed were analyzed under the required certification unless otherwise noted in the above summary.

Certification List

Below is a list of certifications maintained by Microbac Laboratories, Inc. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. A complete list of individual analytes pursuant to each certification below is available upon request.

Code	Description	Certification Number	Expires
Microbac Laboratories, Inc., Baltimore Division			
A2LA1	A2LA (Biology)	410.02	04/30/2013
A2LA2	A2LA (Environmental)	410.01	04/30/2013
VA-B	Commonwealth of Virginia (NELAC) - Baltimore	460170-1829	06/14/2013
CPSC	CPSC Testing of Childrens Products and Jewelry	1115	04/30/2013
Pb	Environmental Lead (ELLAP)	410.01	04/30/2013
NJ	New Jersey	NLC120001	06/30/2013
MD	State of Maryland (Drinking Water)	109	06/30/2013
PA	State of Pennsylvania (NELAC)	68-00339	08/31/2013
USDA	US Department of Agriculture	P330-09-00021	02/19/2012
WV	West Virginia	054	08/31/2013
Microbac Laboratories, Inc., Richmond Division			
VA-R	Commonwealth of Virginia (NELAC) - Richmond	460022-1834	06/14/2013

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Phone: 410-633-1800

Fax: 410-633-6553

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CERTIFICATE OF ANALYSIS

<p>GenOn-Morgantown Morgantown Generating Station, 12620 Crain Hwy Newburg, MD 20664</p>	<p>Project: Morgantown-Fly Ash Project Number: Morgantown-Fly Ash Project Manager: John Williams</p>	<p>Report: 12J0742 Reported: 10/23/2012 10:04</p>
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Qualifiers/Notes and Definitions

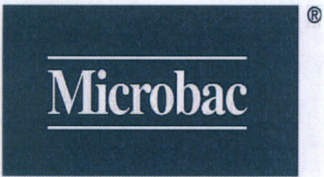
General Definitions:

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Analysis Qualifiers/Notes:

Microbac Laboratories, Inc., Baltimore Division

D Sample Diluted



Microbac Laboratories, Inc.
Baltimore Division
2101 Van Deman Street • Baltimore, MD 21224

Phone: 410-633-1800
Fax: 410-633-6553
www.microbac.com

Cooler Receipt Log

Cooler ID: Default Cooler

Cooler Temp: 1.90 °C

Work Order: 12J0742

Custody Seals Intact: Yes
Containers Intact: Yes
Received On Ice: Yes
Radiation Scan Acceptable: Yes
COC Present: Yes

COC/Containers Agree: Yes
Correct Preservation: Yes
Correct Number of Containers Received: Yes
Sufficient Sample Volume for Testing: Yes
Samples Received in Proper Condition: Yes

Comments:

