

NRG Energy Morgantown Generating Station 12620 Crain Hwy. Newburg, Maryland 20620

Certified Mail/Return Receipt Requested 7013 2630 0000 0547 0329

February 24, 2014

Ms. Martha Hynson Maryland Department of the Environment Land Management Administration 1800 Washington Boulevard, Suite 605 Baltimore MD 21230-1719

Re: 2014 CCB Tonnage Report for GenOn Mid-Atlantic, LLC's Morgantown Generating Station.

Dear Ms. Hynson,

Pursuant to COMAR 26.04.10.08, enclosed please find the 2014 CCB Tonnage Report for GenOn Mid-Atlantic, LLC's Morgantown Generating Station.

If you have any questions regarding this report, please contact Debra Knight at 301-843-4670 or at debra.knight@nrg.com.

NRG Energy, Inc. (NRG) and GenOn Energy, Inc. (GenOn) merged on December 14, 2012 and retained the name NRG Energy, Inc. As a result, all GenOn entities are wholly owned subsidiaries of NRG. Although the parent corporations, NRG and GenOn, have merged, the entities have not merged or changed names.

Regards,

Thomas G. Turk General Manager SOLID WASTE

-PRUBRAM

#### MARYLAND DEPARTMENT OF THE ENVIRONMENT

Land Management Administration • Solid Waste Program

1800 Washington Boulevard • Suite 605 • Baltimore, Maryland 21230-1719

410-537-3315 • 800-633-6101 x3315 • www.mde.maryland.gov

# Coal Combustion Byproducts (CCBs) Annual Generator Tonnage Report Instructions for Calendar Year 2014

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 2014. 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@maryland.gov.

<u>I. Background.</u> 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."

Form Number: MDE/WAS/PER.033 Date of Revision: January 23, 2014 TTY Users: 800-735-2258



Facility Name: Morgantown Generating Station

CCB Tonnage Report – 2014

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, 2015:

A. Contact information:		
Facility Name: Morgantown Generating Sta	ation	
Name of Permit Holder: GenOn Mid-Atlant	ie, LLC	
Facility Address: <u>12620 Crain Highway</u>		
	Street	
Facility Address: Newburg City	Maryland State	206 <u>64</u> Zip
County: Charles		
Contact Information (Person filing report or l	Environmental Manager)	
Facility Telephone No.: 301-843-4670	Facility Fax No.: <u>301-843-4552</u>	
Contact Name: Debra Knight		
Contact Title: Senior Environmental Special	list	
Contact Address: 12620 Crain Highway	Street	
Contact Address: Newburg City	Maryland State	20664 Zip
Contact Email: <u>debra.knight@nrg.com</u>		
Contact Telephone No.: 301-843-4670	Contact Fax No.: 301-843-4552	<u> </u>

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

Facility Name:	Morgantown Generating Station
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# CCB Tonnage Report - 2014

A description of the process that generates the CCBs, including the type of coal or other ra	ıw
aterial that generates the CCBs. If the space provided is insufficient, please attach additional	ıl
ges;	
e Attachment A.	

C. The volume and weight of CCBs generated during calendar year 2014, 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.

<u>Table I: Volume and Weight of CCBs Generated for Calendar Year 2014:</u> 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 a	and Weight of CCB	s Generated for C	alendar Year 2014	
Flyash Type of CCB	Bottom Ash Type of CCB	On-Spec Gypsum Type of CCB	Off Spec Gypsum Type of CCB	WWTP Fines Type of CCB
129,901 Volume of CCB, in Cubic Yards	38,802 Volume of CCB, in Cubic Yards	120,759 Volume of CCB, in Cubic Yards	1,138  Volume of CCB, in Cubic Yards	1,610  Volume of CCB, in  Cubic Yards
129,901 Weight of CCB, in Tons	38,802 Weight of CCB, in Tons	235,895 Weight of CCB, in Tons	2,223 Weight of CCB, in Tons	3,145 Weight of CCB, in Tons

Facility Name: Morgantown Generating Station

CCB Tonnage Report - 2014

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.

<u>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.</u>

- 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.
- F. A description of how you disposed of or used your CCBs in calendar year 2014, 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 129,901 tons of flyash were generated at Morgantown in 2014, and 6,427 tons were stored on site at the end of 2013. Of this ash, 122,862 tons were sold to SEFA, headquartered in Columbia, SC, 6,636 tons were disposed of at the Brandywine Ash Site, located in Brandywine, Md, and 6,830 tons were stored on-site at the STAR Facility ash storage dome for future sale at the end of 2014.

BOTTOM ASH: Of the 38,802 tons of bottom ash generated in 2014, 2,143 tons were sold to SEFA, headquartered in Columbia, SC, and 36,659 tons were disposed of at the Brandywine Ash Site, located in Brandywine, Md.

On-Spec Gypsum:235,895 tons of On-Spec Gypsum were generated at Morgantown in 2014, and 7,315 tons were stored on-site at the end of 2013. Of this total, 233,115 tons were transported by barge to LaFarge, located in Buchanan, NY for use in the manufacture of wallboard, and a total of 10,095 tons were stored on site at the end of 2014.

Off-Spec Gypsum generated in 2014 was 2,223 tons, all of which was disposed of at Waste Management's Amelia Landfill located in Jetersville, Va.

WWTP Fines produced in 2014 was 3,145 tons, all of which was disposed of at Waste Management's Amelia Landfill located in Jetersville, Va.

Facility Name: Morgantown Generating Station	CCB Tonnage Report – 2014
and (b) The different uses by type and volume of CCBs: FlyAsh:	
Volume: 122,862 tons sold	
Uses:	<u> </u>
1)122,862 tons used as a Supplementary cementitious materi	inl for a superior
products, 28,768 tons of which were used in Md.	ial for concrete and concrete
products, 20,700 tons of which were used in Mid.	
Bottom Ash:	
Volume:2,143 tons sold,	
Uses: 2,143 tons used as aggregate for block and concrete p	products, all of which was
applied to a beneficial use in Md.	will of willon was
On-Spec Gypsum:	
Volume:233,115 tons sold	
Use: Wallboard	
	-
TC4b '4.1'. ' CC ' 4.1	
If the space provided is insufficient, please attach additional	pages in a similar format.
G. A description of how you intend to diamona of an use CCI	De im the mant 5 areas 11 at 6 t
G. A description of how you intend to dispose of or use CCI	in the next 5 years, identifying:
(a) The types and volume of CCBs intended to be disp	magad of an usual the leasting of
intended disposal, mine reclamation and use sites, and the type	posed of or used, the location of
be disposed of or used at each site:	be and volume of CCBs intended to
be disposed of of used at each site.	
FlyAsh: Approximately 130,000 tons to be generated, with a	hout 122 000, tons to be sold to
SEFA, headquartered in Columbia, SC, and 7,000 tons to be	sent for disposal at the Brandravina
Ash Site, located in Brandywine, Md.	sent for disposar at the Brandywine
Asir Site, rocated in Brandy whie, 17td.	
Bottom Ash: Anticipate 39,000 tons to be generated, of which	th 2 000 will be sold to SEEA
located in Columbia, SC, and 37,000 tons will be disposed of	
Prince George's County, Md	de the Brandy willo asir site in
On-Spec Gypsum: Anticipate 236,000 tons to be generated of	of which 233,000 tons to be
transported by barge to LaFarge, located in Buchanan, NY, as	
the Morgantown station.	
Off-Spec Gypsum: Approximate 2,200 tons to be generated	and disposed of at Waste
Management's Amelia Landfill located in Jetersville, Va.	
WWTP Fines: Approximately 3,100 tons to be generated and	d disposed of at Waste
Management's Amelia Landfill located in Jetersville, Va.	

Facility Name: Morgantown Generating Station

CCB Tonnage Report - 2014

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

FlyAsh:	
Volume:123,000 tons to be sold	
Uses: 1) All used as a Supplementary cementitious material for concrete and concrete	
products.	-
Bottom Ash:	
Volume: 2,000 tons to be sold	
Uses: All used as aggregate for block and concrete products	
On-Spec Gypsum:	
Volume:233,000 tons to be sold	
Use: Wallboard	

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:

	sest of my Phowledge, the information contained in nic, accinate, and complete.	ilbis report and
	Thomas G. Turk, General Manager,  Morgantown Generating Station  301-843-4521	, ,
Signature	Name, Title, & Telephone No. (Print or Type)	2/24/15 Date
	tom.turk@nrg.com	
	Your Email Address	

#### V: Attachments (please list):

A)Morgantown Generating Station Process Description	
B)Microbac Report #14J0732: Analyses of Fly Ash, Bottom Ash, Off-Spec Gypsum, and	
WWTP Fines	
	_

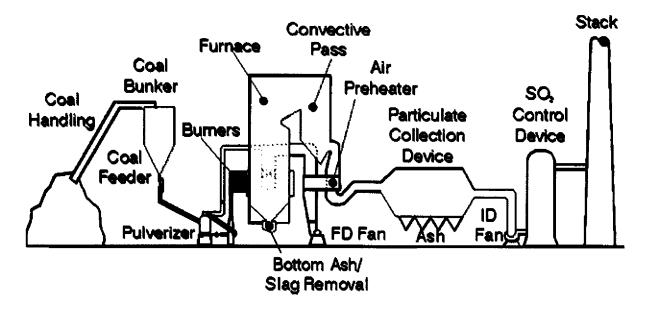
#### **Attachment A**

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 NOx burners with Separated Over-Fired Air (SOFA) and Selective Catalytic Reduction (SCR) for control of oxides of nitrogen (NOx); 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.

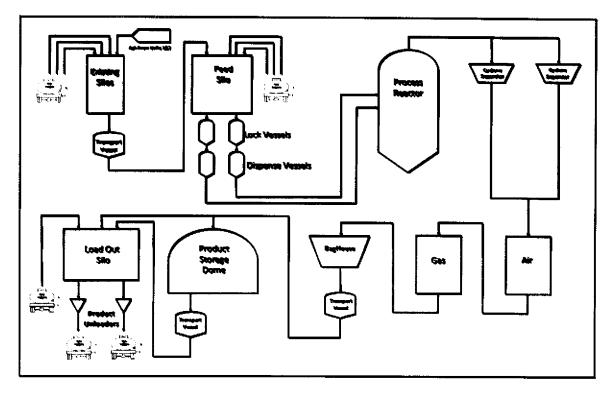
Coal is currently delivered by both rail and by barge. The rail cars are emptied using a rotary dumper, then transferred by conveyor and dravo to either a storage pile or fed directly to the units' bunker. The barge unloading facility consists of a dock, an unloader, a transfer system, and a rail loading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



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%–90% 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 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 or off-loaded for disposal at the Brandywine Ash Site located 29 miles north in Prince Georges County. 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 Buchaman, New York to be made into wallboard. Gyspum 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 Strubber's WWTP as needed and transported to Waste Management's Amelia Landfill in Virginia for disposal.



# Baltimore Division 2101 Van Deman Street • Baltimore, MD 21224

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

#### COVER LETTER

Walter Johnson

November 10, 2014

NRG Energy - Morgantown

Report No.: 14J0732

Mirant-Ryceville, 13970 Ryceville Rd

Mechanicsville, MD 20659

RE: Morgantown-Fly Ash

The report of analyses contains test results for samples received at Microbac Laboratories, Inc., Baltimore Division on 10/14/2014 16:13.

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

Mefanie C Dropp Ki

11/10/2014

Final report reviewed by:

Melanie C. Duszynski/Project Manager

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 Melonie C. Duszynski/Project Manager at 410-633-1800. You may also contact Trevor Boyce, President at trevor.boyce@microbac.com



#### **Baltimore Division**

2101 Van Deman Street • Baltimore, MD 21224

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

#### **CERTIFICATE OF ANALYSIS**

NRG Energy - Morgantown

Project: Morgantown-Fly Ash

Report: 14J0732

Mirant-Ryceville, 13970 Ryceville Rd Mechanicsville, MD 20659 Project Number: Morgantown-Fly Ash Project Manager: Walter Johnson Reported: 11/10/2014 21:40

#### SAMPLE SUMMARY

Sample ID	Laboratory ID	Matrix	Туре	Date Sampled	Date Received
Bottom Ash	14J0732-01	Solid	Grab	10/08/2014 15:30	10/14/2014 16:13
Gypsum	14J0732-02	Solid	Grab	10/08/2014 15:00	10/14/2014 16:13
WWTP Filter Cake	14J0732-03	Solid	Grab	10/08/2014 16:00	10/14/2014 16:13
Unit F1 Flyash	14J0732-04	Solid	Grab	10/09/2014 10:00	10/14/2014 16:13
Unit F2 Flyash	14J0732-05	Solid	Grab	10/09/2014 10:00	10/14/2014 16:13

Microbac Laboratories, Inc. - Baltimore

Mefanie Chapperi



**Baltimore Division** 

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#### **CERTIFICATE OF ANALYSIS**

NRG Energy - Morgantown

Mirant-Ryceville, 13970 Ryceville Rd

Mechanicsville, MD 20659

Project: Morgantown-Fly Ash Project Number: Morgantown-Fly Ash

Project Manager: Walter Johnson

Report: 14J0732

Reported: 11/10/2014 21:40

Reported: 11/10/2014 21:5

#### Bottom Ash 14J0732-01 (Solid) Sampled: 10/08/2014 15:30; Type: Grab

		Reporting							
Analyte	Result	Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
		Microba	c Laboratorie	s, Inc E	Baltimore				
Wet Chemistry						1111			
% Solids	68.76	0.05	% by Weight		101714 1320	102014 0900	LCR	SM (20) 2540G	
Chloride	21	11	mg/kg dry		102714 1334	102714 2316	BLL	EPA 9056	Z10
рН	9,42	0.100	pH Units		101714 0605	101714 0820	LCR	EPA 9045D	Z10a
Sulfate as SO4	650	11	mg/kg dry		102714 1334	102714 2316	BLL	EPA 9056	
Mercury, Total by EPA 700	0 Series Methods								
Mercury	ND	0.034	mg/kg dry		101614 1313	101614 1805	FAK	EPA 7471A	
Metals, Total by EPA 6000/	7000 Series Methods								
Silver	ND	3.5	mg/kg dry		102014 1334	102214 1742	APS	EPA 6010B	
Aluminum	18000	17	mg/kg dry		102014 1334	102214 1742	APS	EPA 6010B	
Arsenic	ND	6.9	mg/kg dry		102014 1334	102214 1742	APS	EPA 6010B	
Boron	68	35	mg/kg dry		102014 1334	102214 1742	APS	EPA 6010B	
Barium	110	3.5	mg/kg dry		102014 1334	102214 1742	APS	EPA 6010B	
Beryllium	2.0	1.4	mg/kg dry		102014 1334	102214 1742	APS	EPA 6010B	
Calcium	5900	35	mg/kg dry		102014 1334	102214 1742	APS	EPA 6010B	
Cadmium	ND	0.69	mg/kg dry		102014 1334	102214 1742	APS	EPA 6010B	
Cobalt	ND	3.5	mg/kg dry		102014 1334	102214 1742	APS	EPA 6010B	
Chromium	8.9	3.5	mg/kg dry		102014 1334	102214 1742	APS	EPA 6010B	
Copper	ND	3.5	mg/kg dry		102014 1334	102214 1742	APS	EPA 6010B	
Iron	68000	14	mg/kg dry		102014 1334	102214 1742	APS	EPA 6010B	
Potassium	2000	35	mg/kg dry		102014 1334	102214 1742	APS	EPA 6010B	
Lithium	19	6.9	mg/kg dry		102014 1334	102214 1742	APS	EPA 6010B	
Magnesium	690	35	mg/kg dry		102014 1334	102214 1742	APS	EPA 6010B	
Manganese	50	3.5	mg/kg dry		102014 1334	102214 1742	APS	EPA 6010B	
Molybdenum	ND	6.9	mg/kg dry		102014 1334	102214 1742	AP\$	EPA 6010B	
Sodium	ND	690	mg/kg dry		102014 1334	102214 1742	APS	EPA 6010B	

Microbac Laboratories, Inc. - Baltimore

Melanie C. Duszynski, Project Manager

Mefanie C Dunge Ki



#### **Baltimore Division**

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#### **CERTIFICATE OF ANALYSIS**

NRG Energy - Morgantown

Mirant-Ryceville, 13970 Ryceville Rd

Mechanicsville, MD 20659

Project: Morgantown-Fly Ash Project Number: Morgantown-Fly Ash

Project Manager: Walter Johnson

Report: 14J0732

Reported: 11/10/2014 21:40

#### Bottom Ash

14J0732-01 (Solid) Sampled: 10/08/2014 15:30; Type: Grab

Ameliata	P could	Reporting Limit	Limita	7 ()	Decree				
Analyte	Result	Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
		Microba	: Laboratori	es, Inc I	Baltimore				
Metals, Total by EPA 6000/7	000 Series Methods								_
Nickel	ND	6.9	mg/kg dry		102014 1334	102214 1742	APS	EPA 6010B	
Lead	ND	6.9	mg/kg dry		102014 1334	102214 1742	APS	EPA 6010B	
Antimony	ND	14	mg/kg dry		102014 1334	102214 1742	APS	EPA 6010B	
Thallium	ND	14	mg/kg dry		102014 1334	102214 1742	APS	EPA 6010B	
Vanadium	29	3.5	mg/kg dry		102014 1334	102214 1742	AP\$	EPA 6010B	
Zinc	6.1	3.5	mg/kg dry		102014 1334	102214 1742	APS	EPA 6010B	
TCLP Extraction by EPA 13	11								
TCLP Extraction	COMPLETED		N/A		101614 1904	102014 1430	TRB	EPA 1311	
FCLP Metals by 6000/7000 S	Series Methods								
Silver	ND	0.20	mg/L	5.0	102014 1033	102114 1708	APS	EPA 6010B	
Arsenic	ND	0.20	mg/L	5.0	102014 1033	102114 1708	APS	EPA 6010B	
Barium	ND	0.50	mg/L	100	102014 1033	102114 1708	APS	EPA 6010B	
Cadmium	ND	0.20	mg/L	1.0	102014 1033	102114 1708	APS	EPA 6010B	
Chromium	ND	0.20	mg/L	5.0	102014 1033	102114 1708	APS	EPA 6010B	
Mercury	ND	0.0020	mg/L	0.20	102014 1504	102114 1748	FAK	EPA 7470A	
Lead	ND	0.20	mg/L	5.0	102014 1033	102114 1708	APS	EPA 6010B	
Selenium	ND	0.20	mg/L	1.0	102014 1033	102114 1708	APS	EPA 6010B	
		Microbac	Laboratories	, Inc Cl	hicagoland				
Metals									. <u></u> -
Sulfur	840	5.0	mg/Kg		110714 0942	110714 1552	AG	SW-846-6010B	

Microbac Laboratories, Inc. - Baltimore

Melanie C. Duszynski, Project Manager

Mefanie C Droppeki

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 Report Page 4 of 17



**Baltimore Division** 

2101 Van Deman Street • Baltimore, MD 21224

Phone: 410-633-1800 Fax: 410-633-6553

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#### **CERTIFICATE OF ANALYSIS**

NRG Energy - Morgantown

Project: Morgantown-Fly Ash

Report: 14J0732

Mirant-Ryceville, 13970 Ryceville Rd Mechanicsville, MD 20659 Project Number: Morgantown-Fly Ash

Reported: 11/10/2014 21:40

Project Manager: Walter Johnson

**Gypsum** 

14J0732-02 (Solid) Sampled: 10/08/2014 15:00; Type: Grab

Microbac   Laboratories   Inc Baltimore   Set Chemistry   Set Solids   76.03   0.05   % by Weight   101714 1320   102014 0900   LCR   SM (20) 25405   210 254			Reporting			<u> </u>				
No.   Solids	Analyte	Result	Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
Solids   76,03   0.05   % by Weight   101714 1320   102014 0900   LCR   SM (20) 2540G			Microba	ic Laboratorie	s, Inc B	laltimore				
Chloride   35   9.4   mg/kg dry   102714 1334   102714 2353   BLL   EPA 9056   EPA 905	Wet Chemistry							_		
Sulfate as SO4	% Solids	76.03	0.05	% by Weight		101714 1320	102014 0900	LCR	SM (20) 2540G	
Sulfate as SO4	Chloride	35	9.4	mg/kg dry		102714 1334	102714 2353	BLL	EPA 9056	
	рН	6.23	0.100	pH Units		101714 0605	101714 0820	LCR	EPA 9045D	Z10b
	Sulfate as SO4	14000	240	mg/kg dry		102714 1334	102814 0913	BLL/P	EPA 9056	
	Mercury, Total by EPA 7000	) Series Methods								
Silver         ND         3.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Aluminum         300         15         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Arsenic         ND         6.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Boron         ND         30         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Barium         22         3.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Beryllium         ND         1.2         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Calcium         260000         300         mg/kg dry         102014 1334         102314 0909         APS         EPA 6010B           Calcium         ND         0.60         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Calcium         ND         3.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Calcium         ND         3.0	Mercury	0.52	0.031	mg/kg dry		101614 1313	101614 1806	FAK	EPA 7471A	
Aluminum         300         15         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Arsenic         ND         6.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Boron         ND         30         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Barium         22         3.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Barium         26         20         300         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Barium         260000         300         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Calcium         ND         0.60         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Calcium         ND         3.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Calcium         ND         3.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Calcium         ND	Metals, Total by EPA 6000/7	7000 Series Methods								
Arsenic ND 6.0 mg/kg dry 102014 1334 102214 1746 APS EPA 6010B Boron ND 30 mg/kg dry 102014 1334 102214 1746 APS EPA 6010B Boron ND 30 mg/kg dry 102014 1334 102214 1746 APS EPA 6010B Boryllium ND 1.2 mg/kg dry 102014 1334 102214 1746 APS EPA 6010B Boryllium ND 1.2 mg/kg dry 102014 1334 102214 1746 APS EPA 6010B Boryllium ND 0.60 mg/kg dry 102014 1334 102214 1746 APS EPA 6010B Borblium ND 0.60 mg/kg dry 102014 1334 102214 1746 APS EPA 6010B Borblium ND 3.0 mg/kg dry 102014 1334 102214 1746 APS EPA 6010B Borblium ND 3.0 mg/kg dry 102014 1334 102214 1746 APS EPA 6010B Borblium ND 3.0 mg/kg dry 102014 1334 102214 1746 APS EPA 6010B Borblium ND 3.0 mg/kg dry 102014 1334 102214 1746 APS EPA 6010B Borblium ND 3.0 mg/kg dry 102014 1334 102214 1746 APS EPA 6010B Borblium ND 3.0 mg/kg dry 102014 1334 102214 1746 APS EPA 6010B Borblium ND 3.0 mg/kg dry 102014 1334 102214 1746 APS EPA 6010B Borblium ND 3.0 mg/kg dry 102014 1334 102214 1746 APS EPA 6010B Borblium ND 3.0 mg/kg dry 102014 1334 102214 1746 APS EPA 6010B Borblium ND 3.0 mg/kg dry 102014 1334 102214 1746 APS EPA 6010B Borblium ND 3.0 mg/kg dry 102014 1334 102214 1746 APS EPA 6010B Borblium ND 3.0 mg/kg dry 102014 1334 102214 1746 APS EPA 6010B Borblium ND 3.0 mg/kg dry 102014 1334 102214 1746 APS EPA 6010B Borblium ND 3.0 mg/kg dry 102014 1334 102214 1746 APS EPA 6010B Borblium ND 3.0 mg/kg dry 102014 1334 102214 1746 APS EPA 6010B Borblium ND 3.0 mg/kg dry 102014 1334 102214 1746 APS EPA 6010B Borblium ND 3.0 mg/kg dry 102014 1334 102214 1746 APS EPA 6010B Borblium ND 3.0 mg/kg dry 102014 1334 102214 1746 APS EPA 6010B Borblium ND 6.0 mg/kg dry 102014 1334 102214 1746 APS EPA 6010B Borblium ND 6.0 mg/kg dry 102014 1334 102214 1746 APS EPA 6010B Borblium ND 6.0 mg/kg dry 102014 1334 102214 1746 APS EPA 6010B Borblium ND 6.0 mg/kg dry 102014 1334 102214 1746 APS EPA 6010B Borblium ND 6.0 mg/kg dry 102014 1334 102214 1746 APS EPA 6010B Borblium ND 6.0 mg/kg dry 102014 1334 102214 1746 APS EPA 6010B Borblium ND 6.0 mg/kg dry 102014 1334 102214 1746 APS EPA 6010B Bo	Silver	ND	3.0	mg/kg dry		102014 1334	102214 1746	APS	EPA 6010B	
Boron         ND         30         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Barium         22         3.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Beryllium         ND         1.2         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Calcium         260000         300         mg/kg dry         102014 1334         102314 0909         APS         EPA 6010B           Calcium         ND         0.60         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Calcium         ND         3.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Calcium         ND         3.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Calcium         ND         3.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Chromium         ND         3.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Chromium         ND         3.0	Aluminum	300	15	mg/kg dry		102014 1334	102214 1746	APS	EPA 6010B	
Barium         22         3.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Beryllium         ND         1.2         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Calcium         260000         300         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Cadmium         ND         0.60         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Cobalt         ND         3.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Chromium         ND         3.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Copper         ND         3.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Potassium         130         30         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Adagnesium         ND         6.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Adagnesium         ND         3.0	Arsenic	ND	6.0	mg/kg dry		102014 1334	102214 1746	APS	EPA 6010B	
Description   ND   1.2   mg/kg dry   102014 1334   102214 1746   APS   EPA 6010B	Boron	ND	30	mg/kg dry		102014 1334	102214 1746	APS	EPA 6010B	
Calcium         260000         300         mg/kg dry         102014 1334         102314 0909         APS         EPA 6010B           Cadmium         ND         0.60         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Cobalt         ND         3.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Chromium         ND         3.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Copper         ND         3.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Potassium         130         30         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Adagnesium         ND         6.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Adagnesium         ND         300         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Adagnesium         ND         3.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Adolybdenum         ND         <	Barium	22	3.0	mg/kg dry		102014 1334	102214 1746	APS	EPA 6010B	
Cadmium         ND         0.60         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Cobalt         ND         3.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Chromium         ND         3.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Copper         ND         3.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Potassium         130         30         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Adagnesium         ND         6.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Manganese         ND         3.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Molybdenum         ND         6.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Molybdenum         ND         6.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B	Beryllium	ND	1.2	mg/kg dry		102014 1334	102214 1746	APS	EPA 6010B	
Cobalt         ND         3.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Chromium         ND         3.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Copper         ND         3.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Potassium         130         30         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Lithium         ND         6.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Magnesium         ND         300         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Manganese         ND         3.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Molybdenum         ND         6.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Molybdenum         ND         6.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B	Calcium	260000	300	mg/kg dry		102014 1334	102314 0909	APS	EPA 6010B	
Chromium ND 3.0 mg/kg dry 102014 1334 102214 1746 APS EPA 6010B Copper ND 3.0 mg/kg dry 102014 1334 102214 1746 APS EPA 6010B  ron 400 12 mg/kg dry 102014 1334 102214 1746 APS EPA 6010B  Potassium 130 30 mg/kg dry 102014 1334 102214 1746 APS EPA 6010B  Lithium ND 6.0 mg/kg dry 102014 1334 102214 1746 APS EPA 6010B  Magnesium ND 300 mg/kg dry 102014 1334 102314 0909 APS EPA 6010B  Manganese ND 3.0 mg/kg dry 102014 1334 102214 1746 APS EPA 6010B  Molybdenum ND 6.0 mg/kg dry 102014 1334 102214 1746 APS EPA 6010B  Molybdenum ND 6.0 mg/kg dry 102014 1334 102214 1746 APS EPA 6010B  Molybdenum ND 6.0 mg/kg dry 102014 1334 102214 1746 APS EPA 6010B  Molybdenum ND 600 mg/kg dry 102014 1334 102214 1746 APS EPA 6010B	Cadmium	ND	0.60	mg/kg dry		102014 1334	102214 1746	APS	EPA 6010B	
Copper         ND         3.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           ron         400         12         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Potassium         130         30         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           dithium         ND         6.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Magnesium         ND         300         mg/kg dry         102014 1334         102314 0909         APS         EPA 6010B           Manganese         ND         3.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Molybdenum         ND         6.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Sodium         ND         600         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B	Cobalt	ND	3.0	mg/kg dry		102014 1334	102214 1746	APS	EPA 6010B	
ron         400         12         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Potassium         130         30         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Lithium         ND         6.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Magnesium         ND         300         mg/kg dry         102014 1334         102314 0909         APS         EPA 6010B           Manganese         ND         3.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Molybdenum         ND         6.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Sodium         ND         600         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B	Chromium	ND	3.0	mg/kg dry		102014 1334	102214 1746	APS	EPA 6010B	
Potassium         130         30         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Lithium         ND         6.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Magnesium         ND         300         mg/kg dry         102014 1334         102314 0909         APS         EPA 6010B           Manganese         ND         3.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Molybdenum         ND         6.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Sodium         ND         600         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B	Copper	ND	3.0	mg/kg dry		102014 1334	102214 1746	APS	EPA 6010B	
Lithium         ND         6.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Magnesium         ND         300         mg/kg dry         102014 1334         102314 0909         APS         EPA 6010B           Manganese         ND         3.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Molybdenum         ND         6.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Sodium         ND         600         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B	Iron	400	12	mg/kg dry		102014 1334	102214 1746	APS	EPA 6010B	
Magnesium         ND         300         mg/kg dry         102014 1334         102314 0909         APS         EPA 6010B           Manganese         ND         3.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Molybdenum         ND         6.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Sodium         ND         600         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B	Potassium	130	30	mg/kg dry		102014 1334	102214 1746	APS	EPA 6010B	
Manganese         ND         3.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Molybdenum         ND         6.0         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B           Sodium         ND         600         mg/kg dry         102014 1334         102214 1746         APS         EPA 6010B	Lithium	ND	6.0	mg/kg dry		102014 1334	102214 1746	APS	EPA 6010B	
Molybdenum ND 6.0 mg/kg dry 102014 1334 102214 1746 APS EPA 6010B Sodium ND 600 mg/kg dry 102014 1334 102214 1746 APS EPA 6010B	Magnesium	ND	300	mg/kg dry		102014 1334	102314 0909	APS	EPA 6010B	
Sodium ND 600 mg/kg dry 102014 1334 102214 1746 APS EPA 6010B	Manganese	ND	3.0	mg/kg dry		102014 1334	102214 1746	APS	EPA 6010B	
	Molybdenum	ND	6.0	mg/kg dry		102014 1334	102214 1746	APS	EPA 6010B	
lickel ND 6.0 mg/kg dry 102014 1334 102214 1746 APS EPA 6010B	Sodium	ND	600	mg/kg dry		102014 1334	102214 1746	APS	FPA 6010B	
	Nickel	ND	6.0	mg/kg dry		102014 1334	102214 1746	APS	EPA 6010B	

Microbac Laboratories, Inc. - Baltimore

Melanie C. Duszynski, Project Manager

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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 Report

Page 5 of 17



#### **Baltimore Division**

2101 Van Deman Street • Baltimore, MD 21224

Phone: 410-633-1800 Fax: 410-633-6553

www.microbac.com

#### **CERTIFICATE OF ANALYSIS**

NRG Energy - Morgantown

Mirant-Ryceville, 13970 Ryceville Rd

Mechanicsville, MD 20659

Project: Morgantown-Fly Ash Project Number: Morgantown-Fly Ash

Project Manager: Walter Johnson

Report: 14J0732

Reported: 11/10/2014 21:40

#### Gypsum

14J0732-02 (Solid) Sampled: 10/08/2014 15:00; Type: Grab

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
,		Microba	c Laboratori	es, Inc E		,			110163
Metals, Total by EPA 6000/7	7000 Series Methods	· .							
Lead	ND	6.0	mg/kg dry		102014 1334	102214 1746	APS	EPA 6010B	
Antimony	ND	12	mg/kg dry		102014 1334	102214 1746	AP\$	EPA 6010B	
Thallium	ND	12	mg/kg dry		102014 1334	102214 1746	APS	EPA 6010B	
Vanadium	ND	3.0	mg/kg dry		102014 1334	102214 1746	APS	EPA 6010B	
Zinc	ND	3.0	mg/kg dry		102014 1334	102214 1746	APS	EPA 6010B	
TCLP Extraction by EPA 13	311				<u> </u>				
TCLP Extraction	COMPLETED		N/A		101614 1904	102014 1430	TRB	EPA 1311	
TCLP Metals by 6000/7000	Series Methods								
Silver	ND	0.20	mg/L	5.0	102014 1033	102114 1720	APS	EPA 6010B	
Arsenic	ND	0.20	mg/L	5.0	102014 1033	102114 1720	APS	EPA 6010B	
Barium	ND	0.50	mg/L	100 102014 1033		102114 1720	APS	EPA 6010B	
Cadmium	ND	0.20	mg/L	0.1	102014 1033	102114 1720	APS	EPA 6010B	
Chromium	ND	0.20	mg/L	5.0	102014 1033	102114 1720	APS	EPA 6010B	
Mercury	ND	0.0020	mg/L	0.20	102014 1504	102114 1755	FAK	EPA 7470A	
Lead	ND	0.20	mg/L	5.0	102014 1033	102114 1720	APS	EPA 6010B	
Selenium	ND	0.20	mg/L	1.0	102014 1033	102114 1720	APS	EPA 6010B	
		Microbac l	Laboratories	, Inc Cl	nicagoland				
<u>Metals</u>									
Sulfur	97000	98	mg/Kg		110714 0942	111014 1443	AG	SW-846 6010B	

Microbac Laboratories, Inc. - Baltimore

Mefanie Chapperi



**Baltimore Division** 

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#### **CERTIFICATE OF ANALYSIS**

NRG Energy - Morgantown

Mechanicsville, MD 20659

Project: Morgantown-Fly Ash

Report: 14J0732

Mirant-Ryceville, 13970 Ryceville Rd

Project Number: Morgantown-Fly Ash

Reported: 11/10/2014 21:40

Project Manager: Walter Johnson

**WWTP Filter Cake** 

14J0732-03 (Solid) Sampled: 10/08/2014 16:00; Type: Grab

		-							
Analyte	Result	Reporting Limit	Units	Limits	Prepared	Anafyzed	Analyst	Method	<b>N</b> T=4
	rwount				<del>-</del>	Allatyzeu	Allalyst	Method	Notes
		Microba	ic Laboratorie	s, Inc E	Baltimore				
Wet Chemistry									
% Solids	58.30	0.05	% by Weight		101714 1320	102014 0900	LCR	SM (20) 2540G	
Chloride	2900	130	mg/kg dry		102714 1334	102814 0925	BLL/P	EPA 9056	
рН	9.00	0.100	pH Units		101714 0605	101714 0820	LCR	EPA 9045D	Z10b
Sulfate as SO4	21000	330	mg/kg dry		102714 1334	102814 0938	BLL/P	EPA 9056	
Mercury, Total by EPA 700	0 Series Methods								
Mercury	17	0.81	mg/kg dry		101614 1313	101614 1823	FAK	EPA 7471A	
Metals, Total by EPA 6000/	7000 Series Methods								
Silver	ND	4.2	mg/kg dry		102014 1334	102214 1751	APS	EPA 6010B	
Aluminum	11000	21	mg/kg đry		102014 1334	102214 1751	APS	EPA 6010B	
Arsenic	49	8.3	mg/kg dry		102014 1334	102214 1751	APS	EPA 6010B	
Boron	900	42	mg/kg dry		102014 1334	102214 1751	APS	EPA 6010B	
Barium	350	4.2	mg/kg dry		102014 1334	102214 1751	APS	EPA 6010B	
Beryllium	ND	1.7	mg/kg dry		102014 1334	102214 1751	APS	EPA 6010B	
Calcium	210000	420	mg/kg dry		102014 1334	102314 0913	APS	EPA 6010B	
Cadmium	1.4	0.83	mg/kg dry		102014 1334	102214 1751	APS	EPA 6010B	
Cobalt	ND	4.2	mg/kg dry		102014 1334	102214 1751	APS	EPA 6010B	
Chromium	43	4.2	mg/kg dry		102014 1334	102214 1751	APS	EPA 6010B	
Copper	19	4.2	mg/kg dry		102014 1334	102214 1751	APS	EPA 6010B	
Iron	16000	17	mg/kg dry		102014 1334	102214 1751	APS	EPA 6010B	
Potassium	2800	42	mg/kg dry		102014 1334	102214 1751	APS	EPA 6010B	
Lithium	ND	8.3	mg/kg dry		102014 1334	102214 1751	APS	EPA 6010B	
Magnesium	13000	420	mg/kg dry		102014 1334	102314 0913	APS	EPA 6010B	
Manganese	550	4.2	mg/kg dry		102014 1334	102214 1751	APS	EPA 6010B	
Molybdenum	ND	8.3	mg/kg dry		102014 1334	102214 1751	APS	EPA 6010B	
Sodium	ND	830	mg/kg dry		102014 1334	102214 1751	APS	EPA 6010B	
Nickel	49	8.3	mg/kg dry		102014 1334	102214 1751	APS	EPA 6010B	

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#### **CERTIFICATE OF ANALYSIS**

NRG Energy - Morgantown

Mirant-Ryceville, 13970 Ryceville Rd

Mechanicsville, MD 20659

Project: Morgantown-Fly Ash Project Number: Morgantown-Fly Ash

Project Manager: Walter Johnson

Report: 14J0732

Reported: 11/10/2014 21:40

#### **WWTP Filter Cake**

14J0732-03 (Solid) Sampled: 10/08/2014 16:00; Type: Grab

Reporting  Inalyte Result Limit Units Limits Prepared Analyzed Analyst Method No.														
Analyte	Result		Units	Limits	Prepared	Analyzed	Analyst	Method	Notes					
		Microba	c Laboratorio	es, Inc I	Baltimore									
Metals, Total by EPA 6000	0/7000 Series Methods				·· <u></u>			· .						
Lead	14	8.3	mg/kg dry		102014 1334	102214 1751	APS	EPA 6010B						
Antimony	ND	17	mg/kg đry		102014 1334	102214 1751	APS	EPA 6010B						
Thallium	ND	17	mg/kg dry		102014 1334	102214 1751	APS	EPA 6010B						
Vanadium	43	4.2	mg/kg dry		102014 1334	102214 1751	APS	EPA 6010B						
Zinç	50	4.2	mg/kg dry		102014 1334	102214 1751	AP\$	EPA 6010B						
TCLP Extraction by EPA	1311				=									
TCLP Extraction	COMPLETED		N/A		101614 1904	102014 1430	TRB	EPA 1311						
TCLP Metals by 6000/700	00 Series Methods													
Silver	ND	0.20	mg/L	5.0	102014 1033	102114 1724	APS	EPA 6010B						
Arsenic	ND	0.20	mg/L	5.0	102014 1033	102114 1724	APS	EPA 6010B						
Barium	ND	0.50	mg/L	100	102014 1033	102114 1724	APS	EPA 6010B						
Cadmium	ND	0.20	mg/L	1.0	102014 1033	102114 1724	APS	EPA 6010B						
Chromium	ND	0.20	mg/L	5.0	102014 1033	102114 1724	APS	EPA 6010B						
Mercury	ND	0.0020	mg/L	0.20	102014 1504	102114 1756	FAK	EPA 7470A						
Lead	ND	0.20	mg/L	5.0	102014 1033	102114 1724	APS	EPA 6010B						
Selenium	ND	0.20	mg/L	1.0	102014 1033	102114 1724	APS	EPA 6010B						
		Microbac	Laboratories	, Inc Cl	hicagoland									
Metals														
Sulfur	78000	97	mg/Kg		110714 0942	111014 1448	AG	SW-846 6010B						

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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.

Melanie C. Duszynski, Project Manager

**Original Report** 

Page 8 of 17



**Baltimore Division** 

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#### **CERTIFICATE OF ANALYSIS**

NRG Energy - Morgantown

Mirant-Ryceville, 13970 Ryceville Rd

Mechanicsville, MD 20659

Project: Morgantown-Fly Ash Project Number: Morgantown-Fly Ash

Project Manager: Walter Johnson

Report: 14J0732

Reported: 11/10/2014 21:40

# Unit F1 Flyash

14J0732-04 (Solid) Sampled: 10/09/2014 10:00; Type: Grab

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
		Microba	c Laboratorie	s, Inc B				Mellog	TVOIES
Wet Chemistry			<u> </u>						
% Solids	100.0	0.05	% by Weight		101714 1320	102014 0900	LCR	SM (20) 2540G	
Chloride	ND	7.5	mg/kg dry		102714 1334	102814 0018	BLL	EPA 9056	
рН	4.56	0.100	pH Units		101714 0605	101714 0820	LCR	EPA 9045D	Z10b
Sulfate as SO4	7500	190	mg/kg dry		102714 1334	102814 1002	BLL/P	EPA 9056	
Mercury, Total by EPA 7000 Ser	ries Methods				<u> </u>				
Mercury	0.32	0.025	mg/kg dry		101614 1313	101614 1816	FAK	EPA 7471A	
Metals, Total by EPA 6000/7000	Series Methods								
Silver	ND	2.2	mg/kg dry		102014 1334	102214 1755	APS	EPA 6010B	_
Aluminum	22000	11	mg/kg dry		102014 1334	102214 1755	APS	EPA 6010B	
Arsenic	99	4.5	mg/kg dry		102014 1334	102214 1755	APS	EPA 6010B	
Boron	300	22	mg/kg dry		102014 1334	102214 1755	APS	EPA 6010B	
Barium	210	2.2	mg/kg dry		102014 1334	102214 1755	APS	EPA 6010B	
Beryllium	4.7	0.90	mg/kg dry		102014 1334	102214 1755	APS	EPA 6010B	
Calcium	12000	22	mg/kg dry		102014 1334	102214 1755	AP\$	EPA 6010B	
Cadmium	1.9	0.45	mg/kg dry		102014 1334	102214 1755	APS	EPA 6010B	
Cobalt	ND	2.2	mg/kg dry		102014 1334	102214 1755	APS	EPA 6010B	
Chromium	49	2.2	mg/kg dry		102014 1334	102214 1755	APS	EPA 6010B	
Copper	34	2.2	mg/kg dry		102014 1334	102214 1755	APS	EPA 6010B	
Iron	42000	9.0	mg/kg dry		102014 1334	102214 1755	APS	EPA 6010B	
Potassium	2500	22	mg/kg dry		102014 1334	102214 1755	APS	EPA 6010B	
Lithium	34	4.5	mg/kg dry		102014 1334	102214 1755	APS	EPA 6010B	
Magnesium	1200	22	mg/kg dry		102014 1334	102214 1755	APS	EPA 6010B	
Manganese	65	2.2	mg/kg dry		102014 1334	102214 1755	APS	EPA 6010B	
Molybdenum	9.9	4.5	mg/kg đry		102014 1334	102214 1755	APS	EPA 6010B	
Sodium	1100	450	mg/kg dry		102014 1334	102214 1755	APS	EPA 6010B	
Nickel	ND	4.5	mg/kg dry		102014 1334	102214 1755	APS	EPA 6010B	

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Mefanie C Dropp Ki



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#### **CERTIFICATE OF ANALYSIS**

NRG Energy - Morgantown

Mechanicsville, MD 20659

Project Number: Morgantown-Fly Ash

Project: Morgantown-Fly Ash

Report: 14J0732

Mirant-Ryceville, 13970 Ryceville Rd

Project Manager: Walter Johnson

Reported: 11/10/2014 21:40

# Unit F1 Flyash

14J0732-04 (Solid) Sampled: 10/09/2014 10:00; Type: Grab

		Reporting							
Analyte	Result	Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
		Microba	c Laboratorio	es, Inc I	Baltimore				
Metals, Total by EPA 6000	/7000 Series Methods								
Lead	25	4.5	mg/kg dry		102014 1334	102214 1755	AP\$	EPA 6010B	
Antimony	ND	9.0	mg/kg dry		102014 1334	102214 1755	APS	EPA 6010B	
Thallium	ND	9.0	mg/kg dry		102014 1334	102214 1755	APS	EPA 6010B	
Vanadium	130	2.2	mg/kg đry		102014 1334	102214 1755	APS	EPA 6010B	
Zinc	64	2.2	mg/kg đry		102014 1334	102214 1755	APS	EPA 6010B	
TCLP Extraction by EPA	1311								
TCLP Extraction	COMPLETED		N/A		101614 1904	102014 1430	TRB	EPA 1311	
TCLP Metals by 6000/7000	) Series Methods								
Silver	ND	0.20	mg/L	5.0	102014 1033	102114 1728	APS	EPA 6010B	
Arsenic	ND	0.20	mg/L	5.0	102014 1033	102114 1728	APS	EPA 6010B	
Barium	ND	0.50	mg/L	100	102014 1033	102114 1728	APS	EPA 6010B	
Cadmium	ND	0.20	mg/L	1.0	102014 1033	102114 1728	APS	EPA 6010B	
Chromium	ND	0.20	mg/L	5.0	102014 1033	102114 1728	APS	EPA 6010B	
Mercury	ND	0.0020	mg/L	0.20	102014 1504	102114 1758	FAK	EPA 7470A	
Lead	ND	0.20	mg/L	5.0	102014 1033	102114 1728	APS	EPA 6010B	
Selenium	ND	0.20	mg/L	1.0	102014 1033	102114 1728	APS	EPA 6010B	
		Microbac	Laboratories	, Inc Cl	nicagoland				
Metals									
Sulfur	2600	5.0	mg/Kg		110714 0942	110714 1628	AG	5W-846 6010B	

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# CERTIFICATE OF ANALYSIS

NRG Energy - Morgantown

Mirant-Ryceville, 13970 Ryceville Rd

Mechanicsville, MD 20659

Project: Morgantown-Fly Ash Project Number: Morgantown-Fly Ash

Project Manager: Walter Johnson

Report: 14J0732

Reported: 11/10/2014 21:40

#### Unit F2 Flyash

14J0732-05 (Solid) Sampled: 10/09/2014 10:00; Type: Grab

		Reporting							
Analyte	Result	Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
		Microba	c Laboratorie	es, Inc E	Baltimore				
Wet Chemistry							<u>-</u>		
% Solids	100.1	0.05	% by Weight		101714 1320	102014 0900	LCR	SM (20) 2540G	
Chloride	14	6.6	mg/kg dry		102714 1334	102814 0030	BLL	EPA 9056	
рН	4.16	0.100	pH Units		101714 0605	101714 0820	LCR	EPA 9045D	Z10c
Sulfate as SO4	8100	170	mg/kg dry		102714 1334	102814 1015	BLL/P	EPA 9056	
Mercury, Total by EPA 7000 S	Series Methods								
Mercury	0.22	0.023	mg/kg dry		101614 1313	101614 1818	FAK	EPA 7471A	
Metals, Total by EPA 6000/70	00 Series Methods							<del></del> .	
Silver	ND	2.0	mg/kg dry		102014 1334	102214 1759	APS	EPA 6010B	
Aluminum	21000	10	mg/kg dry		102014 1334	102214 1759	APS	EPA 6010B	
Arsenic	100	4.1	mg/kg dry		102014 1334	102214 1759	APS	EPA 6010B	
Boron	310	20	mg/kg dry		102014 1334	102214 1759	APS	EPA 6010B	
Barium	190	2.0	mg/kg dry		102014 1334	102214 1759	APS	EPA 6010B	
Beryllium	4.7	0.82	mg/kg dry		102014 1334	102214 1759	APS	EPA 6010B	
Calcium	12000	20	mg/kg dry		102014 1334	102214 1759	APS	EPA 6010B	
Cadmium	1.9	0.41	mg/kg dry		102014 1334	102214 1759	APS	EPA 6010B	
Cobalt	ND	2.0	mg/kg dry		102014 1334	102214 1759	APS	EPA 6010B	
Chromium	48	2.0	mg/kg dry		102014 1334	102214 1759	APS	EPA 6010B	
Copper	20	2.0	mg/kg dry		102014 1334	102214 1759	APS	EPA 6010B	
fron	49000	82	mg/kg dry		102014 1334	102314 0917	APS	EPA 6010B	
Potassium	2400	20	mg/kg dry		102014 1334	102214 1759	APS	EPA 6010B	
Lithium	32	4.1	mg/kg dry		102014 1334	102214 1759	APS	EPA 6010B	
Magnesium	1200	20	mg/kg dгу		102014 1334	102214 1759	APS	EPA 6010B	
Manganese	65	2.0	mg/kg dry		102014 1334	102214 1759	APS	EPA 6010B	
Molybdenum	9.2	4.1	mg/kg dry		102014 1334	102214 1759	APS	EPA 6010B	
Sodium	1200	410	mg/kg dry		102014 1334	102214 1759	APS	EPA 6010B	
Nickel	ND	4.1	mg/kg dry		102014 1334	102214 1759	APS	EPA 6010B	

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#### **CERTIFICATE OF ANALYSIS**

NRG Energy - Morgantown

Mirant-Ryceville, 13970 Ryceville Rd

Project: Morgantown-Fly Ash

Project Number: Morgantown-Fly Ash

Report: 14J0732

Reported: 11/10/2014 21:40

Mechanicsville, MD 20659

Project Manager: Walter Johnson

#### Unit F2 Flyash

14J0732-05 (Solid) Sampled: 10/09/2014 10:00; Type: Grab

		Reporting							
Analyte	Result	Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
		Microba	c Laboratori	es, Inc E	Baltimore				
Metals, Total by EPA 6000	0/7000 Series Methods		<u> </u>						
Lead	22	4.1	mg/kg dry		102014 1334	102214 1759	APS	EPA 6010B	
Antimony	ND	8.2	mg/kg dry		102014 1334	102214 1759	APS	EPA 6010B	
Thallium	ND	8.2	mg/kg dry		102014 1334	102214 1759	APS	EPA 6010B	
Vanadium	130	2.0	mg/kg dry		102014 1334	102214 1759	APS	EPA 6010B	
Zinc	60	2.0	mg/kg dry		102014 1334	102214 1759	APS	EPA 6010B	
TCLP Extraction by EPA	1311					_			
TCLP Extraction	COMPLETED		N/A		101614 1904	102014 1430	TRB	EPA 1311	_
TCLP Metals by 6000/700	0 Series Methods								
Silver	ND	0.20	mg/L	5.0	102014 1033	102114 1732	APS	EPA 6010B	
Arsenic	ND	0.20	mg/L	5.0	102014 1033	102114 1732	APS	EPA 6010B	
Barium	ND	0.50	mg/L	100	102014 1033	102114 1732	APS	EPA 6010B	
Cadmium	ND	0.20	mg/L	1.0	102014 1033	102114 1732	APS	EPA 6010B	
Chromium	ND	0.20	mg/L	5.0	102014 1033	102114 1732	APS	EPA 6010B	
Mercury	ND	0.0020	mg/L	0.20	102014 1504	102114 1759	FAK	EPA 7470A	
Lead	ND	0.20	mg/L	5.0	102014 1033	102114 1732	APS	EPA 6010B	
Selenium	ND	0.20	mg/L	1.0	102014 1033	102114 1732	APS	EPA 6010B	
		Microbae l	Laboratories	, Inc Ch	icagoland				
Metals									
Sulfur	3100	4.9	mg/Kg		110714 0942	110714 1632	AG	SW-846 6010B	

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#### **CERTIFICATE OF ANALYSIS**

NRG Energy - Morgantown

Project: Morgantown-Fly Ash

Report: 14J0732

Mirant-Ryceville, 13970 Ryceville Rd

Project Number: Morgantown-Fly Ash

Reported: 11/10/2014 21:40

Mechanicsville, MD 20659

Project Manager: Walter Johnson

Project Requested Certification(s):

A2LA (Environmental)

Analyte Certification Exception Summary

Microbac Laboratories, Inc. - Baltimore

Matrix: Solid EPA 9056

Chloride: No Certification

Sulfate as SO4: No Certification

SM (20) 2540G

% Solids: No Certification

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

Microbac Laboratories, Inc. - Baltimore

Mefanie C Dwoppki



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#### **CERTIFICATE OF ANALYSIS**

NRG Energy - Morgantown Mirant-Ryceville, 13970 Ryceville Rd Project: Morgantown-Fly Ash Project Number: Morgantown-Fly Ash Report: 14J0732 Reported: 11/10/2014 21:40

Mechanicsville, MD 20659

Project Manager: Walter Johnson

#### **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 Lab	oratories, Inc Baltimore		
A2LA1	A2LA (Biology)	410.02	04/30/2015
A2LA2	A2LA (Environmental)	410.01	04/30/2015
CPSC	CPSC Testing of Childrens Products and Jewelry	1115	04/30/2015
Pb	Environmental Lead (ELLAP)	410.01	04/30/2015
MD	State of Maryland (Drinking Water)	109	06/30/2015
Microbac Lab	oratories, Inc Chicagoland		
A2LA_	A2LA ISO/IEC 17025 Biological Testing	3045.01	09/30/2016
A2LA	A2LA ISO/IEC 17025 Env. DoD Testing	3045.02	09/30/2016
ILDPH	Illinois DOPH Micro analysis of drinking water	1755266	12/31/2016
ILEPA	Illinois EPA wastewater and solid waste analysis	200064	04/01/2015
INDEM	Indiana DEM support lab wastewater and solid waste	A305-9-292	12/31/2013
INSDH	Indiana SDH chemical analysis of drinking water	C-45-03	08/14/2016
INDH	Indiana SDH Micro analysis of drinking water	M-45-8	12/31/2016
KSDOH	Kansas Dept Health & Env. NELAP	E-10397	01/31/2015
KYEPP	Kentucky EPPC analysis Underground Storage Tanks	75	01/31/2015
NYDOH	New York State Department of Health Wadsworth	49179	04/01/2015
NYDOH-1	New York State Department of Health Wadsworth	49386	04/01/2015
NCDEN	North Carolina DENR NPDES effluent, surface water	597	12/31/2014
PEDEP	Pennsylvania DEP Registration for Air analysis	68-04863	
PADEP	Pennsylvania Department of Environmental Protect	68-04863	07/31/2015
USDAS	USDA Permit To Receive Soil	P330-12-00174	06/20/2015
WADOE	Washington State Department of Ecology	C992	10/22/2015
WIDNR	Wisconsin DRN chemical analysis wastewater, solids	998036710	08/31/2015
	oratories, Inc Richmond	400000	06/44/2045
VA-R	Commonwealth of Virginia (NELAC) - Richmond	460022	06/14/2015

Microbac Laboratories, Inc. - Baltimore

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#### **CERTIFICATE OF ANALYSIS**

NRG Energy - Morgantown

Project: Morgantown-Fly Ash

Report: 14J0732

Mirant-Ryceville, 13970 Ryceville Rd

Project Number: Morgantown-Fly Ash

Reported: 11/10/2014 21:40

Mechanicsville, MD 20659

Project Manager: Walter Johnson

#### 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

Z10c

pH temperature at 24.0°C

Z10b

pH temperature at 23.4°C

Z10a Z10 pH temperature at 23.2°C Chloride sample duplicate RPD was out of laboratory acceptance limits; Duplicate result was 16mg/L Cl.



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# Cooler Receipt Log

Cooler ID: Default Cooler		Cooler Temp: 2.10°C Work	Order: 14J0732
Custody Seals Intact:	Yes	COC/Containers Agree:	Yes
Containers Intact:	Yes	Correct Preservation:	Yes
Received On Ice:	Yes	Correct Number of Containers Received:	Yes
Radiation Scan Acceptable:	Yes	Sufficient Sample Volume for Testing:	Yes
COC Present:	Yes	Samples Received in Proper Condition:	Yes

Comments:

52		cord on back.	(Required)		JE.	nents:		ert#		1	14J073	,4							6/3		
MECC 1450733	Page of	instructions for completing the Chain of Custody Facord on back	QC and EDD Type (Required)	[] Level I (NAC) [[] EDD	[ ] Level II**   Format	(1 Level III** Comments	[] Level IV**	Sampler (DW)Cert#		Wi. Whiste Water (WW), Other	Converts						ra [] Archive	Printed Ime/Affiliation	Fringe Name Affiliation	Printed Name/Affiliation	Page 1 or 2
Work Order Number		Instructions for compl	Turnaround Time	<b>Ust</b> andard (7 Business Days)	[] RUSH' Needed By	* Please notify lab prior to drop off		Sampler Phone # Sample	ie (}Fax(fax#)	DV: Groundwater (GW): Surface Water (SW).	Suited analysis  Suited analysis  Colored in the contract of t	x	XXXXXXXX	XXXXXXX	$\times$ $\times$ $\times$ $<$ $\times$	X		as H	16.15 Received Brighaven	Received for Lab By (signature)	
Division	Chain of Custody Record								Mail [] Telephone	<ol> <li>Drinkir - Water (DW)</li> </ol>	No. of Containers	ک - ک		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	×	Y   0	Sample Disposition	_	Date/Time	Oate/Time	YELLOW - RECEIPT
Microbac Laboratories Inc., Baltimore Division 2101 Van Deman St, Baltimore, MD 21224	Chain					Compliance Monitoring? [] Yes    No	одган	ature 0-1	ב <sup>-</sup>	Soud (S), Oil(O), Wipe(WI)	Date Collected	10-8-14 1530	10-8-14 1500	10-8-14 MOO	0001 Fi-6-01	000/ H-p-0	Radioactive	Printed Name Affiliation  Demograph Cura	Princed Name Affinist on	Printed Name: Affinition	WHITE - ORIGINAL LAB
ratories t, Baltimo	800 553		Project	Location	PO #	Compliance	(1)Agency Program	Sampler Signature		Paint(P) Solusa	Composite Filtered						[ ] Non-Hazardous	jnature)		(nature)	WHR
Labo Jeman S	410-633-1800 410-633-6553	oac.com			7,			Š		Food(F) Pai	***xiriseM Grab	×	X S	×	XS	×	H-ucNi []	d By (sig	A B	d By (V	ckages"
<u>©</u>	Microbac Fax: 41	www.microbac.com	Client Name HRG - Morgantoun	Address 126.20 Crain Highway	emblyng	contact John Williams	힅	Sampled by (PRINT) ENUM	Send Report via []e-mail (address)	*** Matrix Types: Air(A), Childrens Product(CP), Foor		Bottom Ash	٤	s e	F. Flych	Unit Fo Flynsh	Possible Hazard Identification [] Hazardous [	(	<del>-</del> , (	efrigerated from Client: Yes No Relinquished By adiation Scan Acceptable Yes No	of 12.11 ** Surcharge May Apply to add'l QC Packages**