

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

Certified Mail/Return Receipt Requested
7013 2630 0000 0437 0101

RECEIVED

FEB 23 2015

LAND MANAGEMENT DIVISION
SOUTH WEST REGION

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

February 23, 2015 /16

Re: 2015 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 2015 CCB Tonnage
Report for GenOn Mid-Atlantic, LLC's Morgantown Generating Station.

If you have any questions regarding this report, please contact me 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.

Sincerely,

Thomas G. Turk
General Manager

Attachments

**Coal Combustion Byproducts (CCBs)
Annual Generator Tonnage Report
Instructions for Calendar Year 2015**

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 2015. 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.

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, 2016:

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.: 301-843-4670 Facility Fax No.: 301-843-4552

Contact Name: Debra Knight

Contact Title: Senior Environmental Specialist

Contact Address: 12620 Crain Highway
Street

Contact Address: Newburg Maryland 20664
City State Zip

Contact Email: debra.knight@nrg.com

Contact Telephone No.: 301-843-4670 Contact Fax No.: 301-843-4552

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 2015, 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 2015: 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 2015				
<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
110,942	26,818	89,756	1,547	1,635
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
110,942	26,818	175,332	3,021	3,193
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.

F. A description of how you disposed of or used your CCBs in calendar year 2015, 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 110,942 tons of flyash were generated at Morgantown in 2015, and 41,667 were imported from the Chalk Point Generating Station for processing at the STAR facility. 6,830 tons were stored on site at the end of 2014. Of this ash, 150,746 tons were sold to SEFA (headquartered in Columbia, SC) for beneficial use as cementitious material for concrete and concrete products in Maryland (42,656 tons) and in five other states (108,090 tons for the other 5 states combined). In addition, 5,991 tons of flyash were disposed of at the Brandywine Ash Site, located in Brandywine, Md, 2,662 tons were disposed of at the King George landfill in King George, Va, and 40 tons were stored on-site at the STAR Facility ash storage dome for future sale at the end of 2015.

BOTTOM ASH: Of the 26,818 tons of bottom ash generated in 2015, 8,679 tons were disposed of at the Brandywine Ash Site, located in Brandywine Md., and 18,139 tons were disposed of at the King George landfill, located in King George, Va.

On-Spec Gypsum: 175,332 tons of On-Spec Gypsum were generated at Morgantown in 2015, and 10,095 tons were stored on-site at the end of 2014. Of this total, 181,562 tons were transported by barge to Continental, located in Buchanan, NY for use in the manufacture of wallboard, and a total of 3,865 tons were stored on site at the end of 2015.

Off-Spec Gypsum generated in 2015 was 3,021 tons, all of which was disposed of at Waste Management's Amelia Landfill located in Jetersville, Va.

WWTP Fines produced in 2015 was 3,193 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: 150,746 tons sold,

Uses:

1)150,746 tons beneficially used as a Supplementary cementitious material for concrete and concrete products, 42,656 tons of which were used in Md., and 108,090 tons beneficially used in five other states.

On-Spec Gypsum:

Volume:181,562 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 111,000 tons to be generated at Morgantown and 42,000 tons to be imported from Chalk Point Generating Station. Of this, approximately 150,000 tons to be sold to SEFA, headquartered in Columbia, SC, and 3,000 tons to be sent for disposal at the Brandywine Ash Site, located in Brandywine, Md.

Bottom Ash: Anticipate 27,000 tons to be generated and disposed of at the Brandywine ash site in Prince George’s County, Md. .

On-Spec Gypsum: Anticipate approximately 182,000 tons to be generated and transported by barge to Continental, located in Buchanan, NY.

Off-Spec Gypsum: Approximate 3,020 tons to be generated and disposed of at Waste Management’s Amelia Landfill located in Jetersville, Va.

WWTP Fines: Approximately 3,193 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.

Uses: 1) All used as a Supplementary cementitious material for concrete and concrete products.

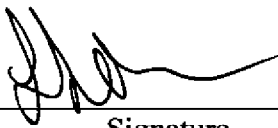
On-Spec Gypsum:

Volume: 182,000 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:

This is to certify that, to the best of my knowledge, the information contained in this report and any attached documents are true, accurate, and complete.		
 _____ Signature	<u>Thomas G. Turk, General Manager,</u> <u>Morgantown Generating Station</u> 301-843-4521 _____ Name, Title, & Telephone No. (Print or Type)	<u>2/23/16</u> _____ Date
	thomas.turk@nrg.com _____ Your Email Address	

V: Attachments (please list):

- A) Morgantown Generating Station Process Description
- B) Microbac Report #15J0810: Analyses of Fly Ash, Bottom Ash, Off-Spec Gypsum, and WWTP Fines

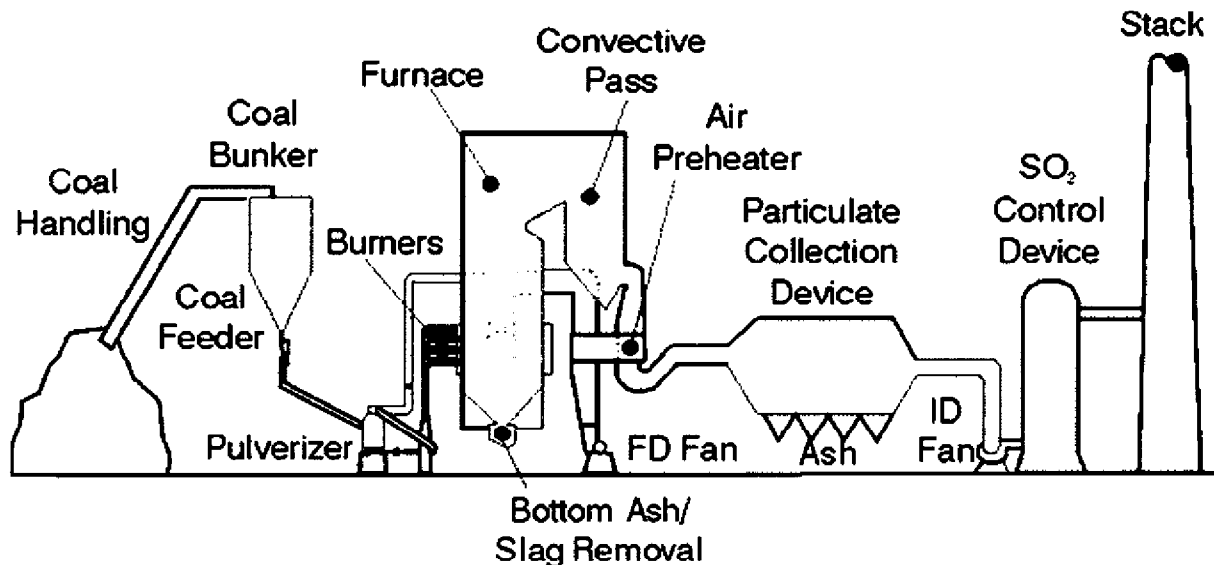
Attachment A

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 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.

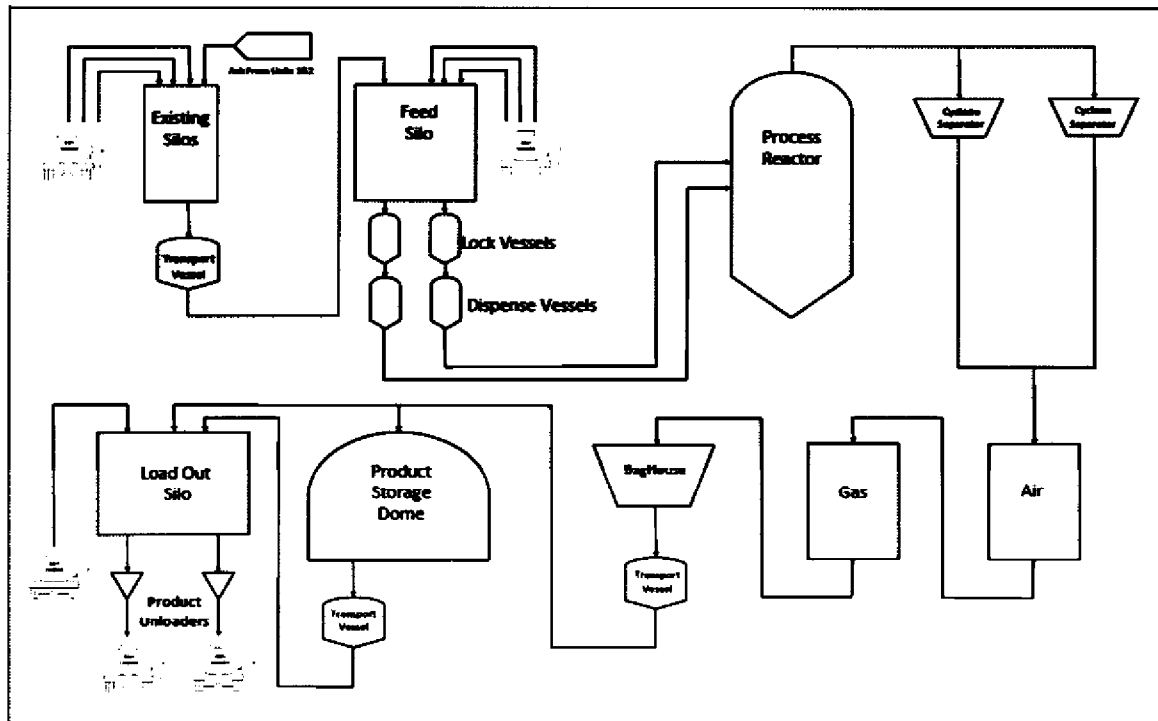
The illustration below shows a simple schematic diagram for a typical pulverized coal combustion system. The coal is prepared by grinding to a very fine consistency for combustion.



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%–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 prepared for sale, disposed of out of state, or sent to the Brandywine Ash Site, where it can be used in the construction of fly ash 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.



Microbac Laboratories, Inc.

Baltimore Division
2101 Van Deman Street • Baltimore, MD 21224

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www.microbac.com

COVER LETTER

Walter Johnson
NRG Energy - Morgantown
NRG-Ryceville, 13970 Ryceville Rd
Mechanicsville, MD 20659
RE: Morgantown-Fly Ash

October 26, 2015
Report No.: 15J0810

The report of analyses contains test results for samples received at Microbac Laboratories, Inc., Baltimore Division on 10/13/2015 13:50.

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

10/26/2015

Final report reviewed by:

Kimberley M. Mack/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 Kimberley M. Mack/Project Manager at 410-633-1800. You may also contact Trevor Boyce, President at trevor.boyce@microbac.com



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 Baltimore Division
 2101 Van Deman Street • Baltimore, MD 21224

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CERTIFICATE OF ANALYSIS

NRG Energy - Morgantown NRG-Ryceville, 13970 Ryceville Rd Mechanicsville, MD 20659	Project: Morgantown-Fly Ash Project Number: Morgantown-Fly Ash Project Manager: Walter Johnson	Report: 15J0810 Reported: 10/26/2015 16:13
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SAMPLE SUMMARY

Sample ID	Laboratory ID	Matrix	Type	Date Sampled	Date Received
Fly Ash Sample	15J0810-01	Solid	Composite	10/12/2015 00:00	10/13/2015 13:50
Bottom Ash	15J0810-02	Solid	Grab	10/12/2015 00:00	10/13/2015 13:50
Gypsum	15J0810-03	Solid	Grab	10/12/2015 00:00	10/13/2015 13:50
WWTP Filter Cake	15J0810-04	Solid	Grab	10/12/2015 00:00	10/13/2015 13:50

Microbac Laboratories, Inc. - Baltimore

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.

Kimberley M. Mack, Project Manager

Original Report



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 Baltimore Division
 2101 Van Deman Street • Baltimore, MD 21224

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 Fax: 410-633-6553
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CERTIFICATE OF ANALYSIS

NRG Energy - Morgantown NRG-Ryceville, 13970 Ryceville Rd Mechanicsville, MD 20659	Project: Morgantown-Fly Ash Project Number: Morgantown-Fly Ash Project Manager: Walter Johnson	Report: 15J0810 Reported: 10/26/2015 16:13
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Fly Ash Sample

15J0810-01 (Solid) Sampled: 10/12/2015 00:00; Type: Composite

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

Wet Chemistry

Chloride	ND	99	mg/kg wet		102015 1223	102215 1538	PPM	SW-846 9056A	D1
Sulfate as SO4	17000	990	mg/kg wet		102015 1223	102115 1648	PPM	SW-846 9056A	

Microbac Laboratories, Inc. - Chicago/land

Metals

Aluminum	15000	9.4	mg/Kg dry		101615 0658	101915 2215	SE	SW-846 6010B	
Antimony	ND	0.94	mg/Kg dry		101615 0658	101915 2215	SE	SW-846 6010B	
Arsenic	79	0.47	mg/Kg dry		101615 0658	101915 2215	SE	SW-846 6010B	
Barium	210	0.19	mg/Kg dry		101615 0658	101915 2215	SE	SW-846 6010B	
Beryllium	3.3	0.047	mg/Kg dry		101615 0658	101915 2215	SE	SW-846 6010B	
Boron	300	0.94	mg/Kg dry		101615 0658	101915 2215	SE	SW-846 6010B	
Cadmium	ND	0.19	mg/Kg dry		101615 0658	101915 2215	SE	SW-846 6010B	
Calcium	14000	240	mg/Kg dry		101615 0658	102015 2003	SE	SW-846 6010B	
Chromium	32	0.19	mg/Kg dry		101615 0658	101915 2215	SE	SW-846 6010B	
Cobalt	11	0.19	mg/Kg dry		101615 0658	101915 2215	SE	SW-846 6010B	
Copper	26	0.47	mg/Kg dry		101615 0658	101915 2215	SE	SW-846 6010B	
Iron	42000	24	mg/Kg dry		101615 0658	102015 2003	SE	SW-846 6010B	
Lead	16	0.35	mg/Kg dry		101615 0658	101915 2215	SE	SW-846 6010B	
Lithium	31	4.7	mg/Kg dry		101615 0658	101915 2215	SE	SW-846 6010B	
Magnesium	1300	24	mg/Kg dry		101615 0658	101915 2215	SE	SW-846 6010B	
Manganese	55	0.19	mg/Kg dry		101615 0658	101915 2215	SE	SW-846 6010B	
Mercury	ND	0.0010	mg/L		102115 0835	102115 1451	SJE	1311/7470A	
Molybdenum	8.0	0.94	mg/Kg dry		101615 0658	101915 2215	SE	SW-846 6010B	
Nickel	28	0.47	mg/Kg dry		101615 0658	101915 2215	SE	SW-846 6010B	
Selenium	2.0	1.4	mg/Kg dry		101615 0658	101915 2215	SE	SW-846 6010B	
Silver	ND	0.47	mg/Kg dry		101615 0658	101915 2215	SE	SW-846 6010B	
Sodium	1400	24	mg/Kg dry		101615 0658	101915 2215	SE	SW-846 6010B	

Microbac Laboratories, Inc. - Baltimore

Kimberley Mack

Kimberley M. Mack, Project Manager

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Original Report

Page 3 of 24



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CERTIFICATE OF ANALYSIS

NRG Energy - Morgantown NRG-Ryceville, 13970 Ryceville Rd Mechanicsville, MD 20659	Project: Morgantown-Fly Ash Project Number: Morgantown-Fly Ash Project Manager: Walter Johnson	Report: 15J0810 Reported: 10/26/2015 16:13
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Fly Ash Sample

15J0810-01 (Solid) Sampled: 10/12/2015 00:00; Type: Composite

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
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Microbac Laboratories, Inc. - Chicagoland

Metals

Tin	2.7	0.94	mg/Kg dry		101615 0658	101915 2215	SE	SW-846 6010B	
Vanadium	91	0.38	mg/Kg dry		101615 0658	101915 2215	SE	SW-846 6010B	
Zinc	37	0.94	mg/Kg dry		101615 0658	101915 2215	SE	SW-846 6010B	

TCLP Metals

Arsenic	0.480	0.0100	mg/L		102015 0921	102015 1917	SE	1311/6010B	
Barium	6.209	0.500	mg/L		102015 0921	102015 1917	SE	1311/6010B	
Cadmium	0.0108	0.00200	mg/L		102015 0921	102015 1917	SE	1311/6010B	
Chromium	0.153	0.00300	mg/L		102015 0921	102015 1917	SE	1311/6010B	
Lead	ND	0.00750	mg/L		102015 0921	102015 1917	SE	1311/6010B	
Selenium	0.0143	0.0300	mg/L		102015 0921	102015 1917	SE	1311/6010B	
Silver	ND	0.0100	mg/L		102015 0921	102015 1917	SE	1311/6010B	

Wet Chemistry

Percent Solids	100	0.10	wt%		101915 1443	101915 1505	TMG	SM 2540 G-1997	
pH	3.81	2.00	pH at 25°C		101615 1535	101615 1535	EB	SW-846 9045D	
Sulfur (from SO4)	4180	330	mg/Kg		101815 1040	102015 1159	AGRIE	ASTM D129 MOD	

Microbac Laboratories, Inc. - Baltimore

Kimberley Mack

Kimberley M. Mack, Project Manager

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Original Report



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Baltimore Division

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CERTIFICATE OF ANALYSIS

NRG Energy - Morgantown NRG-Ryceville, 13970 Ryceville Rd Mechanicsville, MD 20659	Project: Morgantown-Fly Ash Project Number: Morgantown-Fly Ash Project Manager: Walter Johnson	Report: 15J0810 Reported: 10/26/2015 16:13
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Bottom Ash

15J0810-02 (Solid) Sampled: 10/12/2015 00:00; Type: Grab

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

Wet Chemistry

Chloride	ND	9.7	mg/kg wet		102015 1223	102215 1513	PPM	SW-846 9056A	
Sulfate as SO4	300	9.7	mg/kg wet		102015 1223	102215 1513	PPM	SW-846 9056A	

Microbac Laboratories, Inc. - Chicago

Metals

Aluminum	4200	11	mg/Kg dry		101615 0658	101915 2220	SE	SW-846 6010B	
Antimony	ND	1.1	mg/Kg dry		101615 0658	101915 2220	SE	SW-846 6010B	
Arsenic	3.1	0.55	mg/Kg dry		101615 0658	101915 2220	SE	SW-846 6010B	
Barium	22	0.22	mg/Kg dry		101615 0658	101915 2220	SE	SW-846 6010B	
Beryllium	0.64	0.055	mg/Kg dry		101615 0658	101915 2220	SE	SW-846 6010B	
Boron	21	1.1	mg/Kg dry		101615 0658	101915 2220	SE	SW-846 6010B	
Cadmium	ND	0.22	mg/Kg dry		101615 0658	101915 2220	SE	SW-846 6010B	
Calcium	1600	28	mg/Kg dry		101615 0658	101915 2220	SE	SW-846 6010B	
Chromium	6.2	0.22	mg/Kg dry		101615 0658	101915 2220	SE	SW-846 6010B	
Cobalt	6.6	0.22	mg/Kg dry		101615 0658	101915 2220	SE	SW-846 6010B	
Copper	9.4	0.55	mg/Kg dry		101615 0658	101915 2220	SE	SW-846 6010B	
Iron	42000	28	mg/Kg dry		101615 0658	102015 2007	SE	SW-846 6010B	
Lead	ND	0.41	mg/Kg dry		101615 0658	101915 2220	SE	SW-846 6010B	
Lithium	5.6	5.5	mg/Kg dry		101615 0658	101915 2220	SE	SW-846 6010B	
Magnesium	160	28	mg/Kg dry		101615 0658	101915 2220	SE	SW-846 6010B	
Manganese	30	0.22	mg/Kg dry		101615 0658	101915 2220	SE	SW-846 6010B	
Mercury	ND	0.0010	mg/L		102115 0835	102115 1453	SJE	1311/7470A	
Molybdenum	1.2	1.1	mg/Kg dry		101615 0658	101915 2220	SE	SW-846 6010B	
Nickel	14	0.55	mg/Kg dry		101615 0658	101915 2220	SE	SW-846 6010B	
Selenium	ND	1.7	mg/Kg dry		101615 0658	101915 2220	SE	SW-846 6010B	
Silver	ND	0.55	mg/Kg dry		101615 0658	101915 2220	SE	SW-846 6010B	
Sodium	170	28	mg/Kg dry		101615 0658	101915 2220	SE	SW-846 6010B	

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Kimberley Mack

Kimberley M. Mack, Project Manager

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CERTIFICATE OF ANALYSIS

NRG Energy - Morgantown NRG-Ryceville, 13970 Ryceville Rd Mechanicsville, MD 20659	Project: Morgantown-Fly Ash Project Number: Morgantown-Fly Ash Project Manager: Walter Johnson	Report: 15J0810 Reported: 10/26/2015 16:13
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Bottom Ash

15J0810-02 (Solid) Sampled: 10/12/2015 00:00; Type: Grab

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
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Microbac Laboratories, Inc. - ChicagoLand

Metals

Tin	1.2	1.1	mg/Kg dry		101615 0658	101915 2220	SE	SW-846 6010B	
Vanadium	10	0.44	mg/Kg dry		101615 0658	101915 2220	SE	SW-846 6010B	
Zinc	5.3	1.1	mg/Kg dry		101615 0658	101915 2220	SE	SW-846 6010B	

TCLP Metals

Arsenic	ND	0.0100	mg/L		102015 0921	102015 1922	SE	1311/6010B	
Barium	0.0719	0.500	mg/L		102015 0921	102015 1922	SE	1311/6010B	
Cadmium	ND	0.00200	mg/L		102015 0921	102015 1922	SE	1311/6010B	
Chromium	0.00350	0.00300	mg/L		102015 0921	102015 1922	SE	1311/6010B	
Lead	ND	0.00750	mg/L		102015 0921	102015 1922	SE	1311/6010B	
Selenium	0.00530	0.0300	mg/L		102015 0921	102015 1922	SE	1311/6010B	
Silver	ND	0.0100	mg/L		102015 0921	102015 1922	SE	1311/6010B	

Wet Chemistry

Percent Solids	81	0.10	wt%		101915 1443	101915 1505	TMG	SM 2540 G-1997	
pH	8.18	2.00	pH at 25°C		101615 1535	101615 1535	EB	SW-846 9045D	
Sulfur (from SO4)	2500	330	mg/Kg		101815 1040	102015 1201	AGRIE	ASTM D129 MOD	

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NRG Energy - Morgantown NRG-Ryeoville, 13970 Ryeoville Rd Mechanicsville, MD 20659	Project: Morgantown-Fly Ash Project Number: Morgantown-Fly Ash Project Manager: Walter Johnson	Report: 15J0810 Reported: 10/26/2015 16:13
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Gypsum

15J0810-03 (Solid) Sampled: 10/12/2015 00:00; Type: Grab

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
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Wet Chemistry

Chloride	ND	99	mg/kg wet		102015 1223	102215 1603	PFM	SW-846 9056A	D1
Sulfate as SO4	22000	990	mg/kg wet		102015 1223	102115 1737	PFM	SW-846 9056A	

Microbac Laboratories, Inc. - ChicagoLand

Metals

Aluminium	960	13	mg/Kg dry		101615 0658	101915 2224	SE	SW-846 6010B	
Antimony	ND	1.3	mg/Kg dry		101615 0658	101915 2224	SE	SW-846 6010B	
Arsenic	5.1	0.63	mg/Kg dry		101615 0658	101915 2224	SE	SW-846 6010B	
Barium	38	0.25	mg/Kg dry		101615 0658	101915 2224	SE	SW-846 6010B	
Beryllium	0.10	0.063	mg/Kg dry		101615 0658	101915 2224	SE	SW-846 6010B	
Boron	5.5	1.3	mg/Kg dry		101615 0658	101915 2224	SE	SW-846 6010B	
Cadmium	ND	0.25	mg/Kg dry		101615 0658	101915 2224	SE	SW-846 6010B	
Calcium	200000	3200	mg/Kg dry		101615 0658	102015 2012	SE	SW-846 6010B	
Chromium	3.1	0.25	mg/Kg dry		101615 0658	101915 2224	SE	SW-846 6010B	
Cobalt	0.59	0.25	mg/Kg dry		101615 0658	101915 2224	SE	SW-846 6010B	
Copper	4.2	0.63	mg/Kg dry		101615 0658	101915 2224	SE	SW-846 6010B	
Iron	3300	3.2	mg/Kg dry		101615 0658	101915 2224	SE	SW-846 6010B	
Lead	ND	0.47	mg/Kg dry		101615 0658	101915 2224	SE	SW-846 6010B	
Lithium	ND	6.3	mg/Kg dry		101615 0658	101915 2224	SE	SW-846 6010B	
Magnesium	270	32	mg/Kg dry		101615 0658	101915 2224	SE	SW-846 6010B	
Manganese	9.0	0.25	mg/Kg dry		101615 0658	101915 2224	SE	SW-846 6010B	
Mercury	ND	0.0010	mg/L		102115 0835	102115 1454	SJE	1311/7470A	
Molybdenum	ND	1.3	mg/Kg dry		101615 0658	101915 2224	SE	SW-846 6010B	
Nickel	2.0	0.63	mg/Kg dry		101615 0658	101915 2224	SE	SW-846 6010B	
Selenium	7.1	1.9	mg/Kg dry		101615 0658	101915 2224	SE	SW-846 6010B	
Silver	ND	0.63	mg/Kg dry		101615 0658	101915 2224	SE	SW-846 6010B	
Sodium	60	32	mg/Kg dry		101615 0658	101915 2224	SE	SW-846 6010B	

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CERTIFICATE OF ANALYSIS

NRG Energy - Morgantown NRG-Ryceville, 13970 Ryceville Rd Mechanicsville, MD 20659	Project: Morgantown-Fly Ash Project Number: Morgantown-Fly Ash Project Manager: Walter Johnson	Report: 15J0810 Reported: 10/26/2015 16:13
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Gypsum

15J0810-03 (Solid) Sampled: 10/12/2015 00:00; Type: Grab

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
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Microbac Laboratories, Inc. - ChicagoLand

Metals									
Tin	ND	1.3	mg/Kg dry		101615 0658	101915 2224	SE	SW-846 6010B	
Vanadium	4.9	0.51	mg/Kg dry		101615 0658	101915 2224	SE	SW-846 6010B	
Zinc	2.7	1.3	mg/Kg dry		101615 0658	101915 2224	SE	SW-846 6010B	

TCLP Metals									
Arsenic	0.0131	0.0100	mg/L		102015 0921	102015 1928	SE	1311/6010B	
Barium	0.0605	0.500	mg/L		102015 0921	102015 1928	SE	1311/6010B	
Cadmium	ND	0.00200	mg/L		102015 0921	102015 1928	SE	1311/6010B	
Chromium	0.00460	0.00300	mg/L		102015 0921	102015 1928	SE	1311/6010B	
Lead	ND	0.00750	mg/L		102015 0921	102015 1928	SE	1311/6010B	
Selenium	0.0417	0.100	mg/L		102015 0921	102015 1928	SE	1311/6010B	
Silver	ND	0.0100	mg/L		102015 0921	102015 1928	SE	1311/6010B	

Wet Chemistry									
Percent Solids	75	0.10	wt%		101915 1443	101915 1505	TMG	SM 2540 G-1997	
pH	7.98	2.00	pH at 25°C		101615 1535	101615 1535	EB	SW-846 9045D	
Sulfur (from SO4)	34000	17000	mg/Kg		101815 1040	102015 1226	AGRIE	ASTM D129 MOD	

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NRG Energy - Morgantown NRG-Ryceville, 13970 Ryceville Rd Mechanicsville, MD 20659	Project: Morgantown-Fly Ash Project Number: Morgantown-Fly Ash Project Manager: Walter Johnson	Report: 15J0810 Reported: 10/26/2015 16:13
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WWTP Filter Cake
 15J0810-04 (Solid) Sampled: 10/12/2015 00:00; Type: Grab

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
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Wet Chemistry

Chloride	2700	96	mg/kg wet		102015 1223	102215 1627	PPM	SW-846 9056A	
Sulfate as SO4	18000	960	mg/kg wet		102015 1223	102115 1802	PPM	SW-846 9056A	

Microbac Laboratories, Inc. - ChicagoLand

Metals

Aluminum	21000	19	mg/Kg dry		101615 0658	101915 2229	SE	SW-846 6010B	
Antimony	2.1	1.9	mg/Kg dry		101615 0658	101915 2229	SE	SW-846 6010B	
Arsenic	95	0.94	mg/Kg dry		101615 0658	101915 2229	SE	SW-846 6010B	
Barium	220	0.38	mg/Kg dry		101615 0658	101915 2229	SE	SW-846 6010B	
Beryllium	2.5	0.094	mg/Kg dry		101615 0658	101915 2229	SE	SW-846 6010B	
Boron	1200	1.9	mg/Kg dry		101615 0658	101915 2229	SE	SW-846 6010B	
Cadmium	0.72	0.38	mg/Kg dry		101615 0658	101915 2229	SE	SW-846 6010B	
Calcium	150000	4700	mg/Kg dry		101615 0658	102015 2017	SE	SW-846 6010B	
Chromium	85	0.38	mg/Kg dry		101615 0658	101915 2229	SE	SW-846 6010B	
Cobalt	13	0.38	mg/Kg dry		101615 0658	101915 2229	SE	SW-846 6010B	
Copper	49	0.94	mg/Kg dry		101615 0658	101915 2229	SE	SW-846 6010B	
Iron	25000	4.7	mg/Kg dry		101615 0658	101915 2229	SE	SW-846 6010B	
Lead	26	0.71	mg/Kg dry		101615 0658	101915 2229	SE	SW-846 6010B	
Lithium	21	9.4	mg/Kg dry		101615 0658	101915 2229	SE	SW-846 6010B	
Magnesium	18000	47	mg/Kg dry		101615 0658	101915 2229	SE	SW-846 6010B	
Manganese	660	0.38	mg/Kg dry		101615 0658	101915 2229	SE	SW-846 6010B	
Mercury	ND	0.0010	mg/L		102115 0835	102115 1457	SJE	1311/7470A	
Molybdenum	13	1.9	mg/Kg dry		101615 0658	101915 2229	SE	SW-846 6010B	
Nickel	100	0.94	mg/Kg dry		101615 0658	101915 2229	SE	SW-846 6010B	
Selenium	49	2.8	mg/Kg dry		101615 0658	101915 2229	SE	SW-846 6010B	
Silver	ND	0.94	mg/Kg dry		101615 0658	101915 2229	SE	SW-846 6010B	
Sodium	1600	47	mg/Kg dry		101615 0658	101915 2229	SE	SW-846 6010B	

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CERTIFICATE OF ANALYSIS

NRG Energy - Morgantown NRG-Ryceville, 13970 Ryceville Rd Mechanicsville, MD 20659	Project: Morgantown-Fly Ash Project Number: Morgantown-Fly Ash Project Manager: Walter Johnson	Report: 15J0810 Reported: 10/26/2015 16:13
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WWTP Filter Cake

15J0810-04 (Solid) Sampled: 10/12/2015 00:00; Type: Grab

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
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Microbac Laboratories, Inc. - ChicagoLand

Metals

Tin	5.6	1.9	mg/Kg dry		101615 0658	101915 2229	SE	SW-846 6010B	
Vanadium	100	0.75	mg/Kg dry		101615 0658	101915 2229	SE	SW-846 6010B	
Zinc	95	1.9	mg/Kg dry		101615 0658	101915 2229	SE	SW-846 6010B	

TCLP Metals

Arsenic	ND	0.0100	mg/L		102015 0921	102015 1947	SE	1311/6010B	
Barium	0.106	0.500	mg/L		102015 0921	102015 1947	SE	1311/6010B	
Cadmium	0.00260	0.00200	mg/L		102015 0921	102015 1947	SE	1311/6010B	
Chromium	0.00260	0.00300	mg/L		102015 0921	102015 1947	SE	1311/6010B	
Lead	ND	0.00750	mg/L		102015 0921	102015 1947	SE	1311/6010B	
Selenium	0.0501	0.100	mg/L		102015 0921	102015 1947	SE	1311/6010B	
Silver	ND	0.0100	mg/L		102015 0921	102015 1947	SE	1311/6010B	

Wet Chemistry

Percent Solids	53	0.10	wt%		101915 1443	101915 1505	TMG	SM 2540 G-1997	
pH	8.61	2.00	pH at 25°C		101615 1535	101615 1535	EB	SW-846 9043D	
Sulfur (from SO4)	29000	16000	mg/Kg		101815 1040	102015 1228	AGRIE	ASTM D129 MOD	

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Project Requested Certification(s):

A2LA (Environmental)

Analyte Certification Exception Summary

No certification exceptions

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

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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			
A2LA1	A2LA (Biology)	410.02	04/30/2017
A2LA2	A2LA (Environmental)	410.01	04/30/2017
CPSC	CPSC Testing of Childrens Products and Jewelry	1115	04/30/2017
Pb	Environmental Lead (ELLAP)	410.01	04/30/2017
MD	State of Maryland (Drinking Water)	109	08/30/2016
WV	West Virginia	054	09/30/2016
Microbac Laboratories, 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
CDC-ELITE	Center of Disease Control Legionella ELITE Membership		04/21/2016
ILDPH	Illinois DOPH Micro analysis of drinking water	1755266	12/31/2016
ILEPA	Illinois EPA wastewater and solid waste analysis	200064	04/01/2016
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
ISBOAH	Indiana State Board of Animal Health for microbiological anal	18137	03/01/2016
KSDOH	Kansas Dept Health & Env. NELAP	E-10397	01/31/2016
KYEPP	Kentucky EPPC analysis Underground Storage Tanks	75	04/01/2016
KYDEP	Kentucky Wastewater Laboratory Certification Program	90147	12/31/2015
NYDOH	New York State Department of Health Wadsworth	52733	04/01/2016
NCDEN	North Carolina DENR NPDES effluent, surface water	597	12/31/2015
PEDEP	Pennsylvania DEP Registration for Air analysis	68-04863	
PADEP	Pennsylvania Department of Environmental Protect	68-04863	07/31/2016
USDAS	USDA Permit To Receive Soil	P330-12-00174	09/18/2016
VELAP	Virginia Department of General Services Division of Consolid	7990	08/14/2016
WADOE	Washington State Department of Ecology	C992	10/22/2015
Microbac Laboratories, Inc. - Richmond			
VA-R	Commonwealth of Virginia (NELAC) - Richmond	460022	06/14/2016

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CERTIFICATE OF ANALYSIS

NRG Energy - Morgantown NRG-Ryceville, 13970 Ryceville Rd Mechanicsville, MD 20659	Project: Morgantown-Fly Ash Project Number: Morgantown-Fly Ash Project Manager: Walter Johnson	Report: 15J0810 Reported: 10/26/2015 16:13
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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**
- D1 Sample required dilution due to matrix.



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Cooler Receipt Log

Cooler ID: Default Cooler

Cooler Temp: 3.20°C

Work Order: 15J0810

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:



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SENDING LABORATORY:

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 Baltimore, MD 21224
 Phone: 410.633.1800
 Fax: 410.633.6553

RECEIVING LABORATORY:

Microbac - CGL
 250 West 84th Drive
 Merrillville, IN 46410
 Phone : (219) 769-8378
 Fax: (219) 769-1664

CERTIFICATION NEEDED:

- | | | | |
|--|-------------------------------------|---|--------------------------------------|
| <input type="checkbox"/> MD - Drinking Water | <input type="checkbox"/> VA - NELAC | <input type="checkbox"/> A2LA - Environmental | <input type="checkbox"/> Other _____ |
| <input type="checkbox"/> NJ - NELAC | <input type="checkbox"/> PA - NELAC | <input type="checkbox"/> A2LA - Microbiology | <input type="checkbox"/> NONE |

Project name: Morgantown-Fly Ash

Project Manager: Kimberley M. Mack

Work Order TAT: 7

Report Due : 10/22/2015 17:00

Sample ID: 15J0810-01

Matrix: Solid

Sampled: 10/12/2015 00:00

Analysis	TAT	Due Date	Expires	Comments
% Solid / SM 2540 G-11	7	10/22/2015 16:00	11/09/2015 00:00	
M_Mo_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Na_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Ni_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Pb_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Sb_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_V_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Mn_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
pH_Lab / SW-846 9045D	7	10/22/2015 16:00	11/09/2015 00:00	
M_Tl_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
TCLP_Se_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
TCLP_Pb_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
TCLP_Hg / EPA 7470A	7	10/22/2015 16:00	11/09/2015 00:00	
TCLP_Extraction / EPA 1311	2	10/15/2015 18:00	10/26/2015 00:00	
TCLP_Cr_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
TCLP_Cd_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
TCLP_Ba_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
TCLP_As_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Co_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Ca_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Zn_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Be_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Mg_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Ba_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_B_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_As_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Al_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Cr_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Cu_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Ag_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Fe_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	



Microbac Laboratories, Inc. - Baltimore

SENDING LABORATORY:

Microbac Laboratories, Inc. - Baltimore
2101 Van Deman Street
Baltimore, MD 21224
Phone: 410.633.1800
Fax: 410.633.6553

RECEIVING LABORATORY:

Microbac - CGL
250 West 84th Drive
Merrillville, IN 46410
Phone : (219) 769-8378
Fax: (219) 769-1664

CERTIFICATION NEEDED:

- MD - Drinking Water
- VA - NELAC
- A2LA - Environmental
- Other _____
- NJ - NELAC
- PA - NELAC
- A2LA - Microbiology
- NONE

Project name: Morgantown-Fly Ash

Work Order TAT: 7

Project Manager: Kimberley M. Mack

Report Due : 10/22/2015 17:00

Sample ID: 15J0810-01

Matrix: Solid

Sampled: 10/12/2015 00:00

Analysis	TAT	Due Date	Expires	Comments
M_K_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
SUB_Sulfur / ASTM D129-91	7	10/22/2015 16:00	11/09/2015 00:00	
TCLP_Ag_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Li_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Cd_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	

Containers Supplied:

SUBCONTRACT ORDER



Microbac Baltimore Work Order:

15J0810

Microbac Laboratories, Inc. - Baltimore

SENDING LABORATORY:

Microbac Laboratories, Inc. - Baltimore
 2101 Van Deman Street
 Baltimore, MD 21224
 Phone: 410.633.1800
 Fax: 410.633.6553

RECEIVING LABORATORY:

Microbac - CGL
 250 West 84th Drive
 Merrillville, IN 46410
 Phone : (219) 769-8378
 Fax: (219) 769-1664

CERTIFICATION NEEDED:

- MD - Drinking Water
 VA - NELAC
 A2LA - Environmental
 Other _____
 NJ - NELAC
 PA - NELAC
 A2LA - Microbiology
 NONE

Project name: Morgantown-Fly Ash

Work Order TAT: 7

Project Manager: Kimberley M. Mack

Report Due : 10/22/2015 17:00

Sample ID: 15J0810-02

Matrix: Solid

Sampled: 10/12/2015 00:00

Analysis	TAT	Due Date	Expires	Comments
SUB_Sulfur / ASTM D129-91	7	10/22/2015 16:00	11/09/2015 00:00	
M_K_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Fe_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Li_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Mg_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Mn_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Mo_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
TCLP_Cd_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
TCLP_Ag_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_V_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Zn_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
pH_Lab / SW-846 9045D	7	10/22/2015 16:00	11/09/2015 00:00	
M_Ca_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Na_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Cd_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
TCLP_Se_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
TCLP_Pb_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
TCLP_Hg / EPA 7470A	7	10/22/2015 16:00	11/09/2015 00:00	
TCLP_Extraction / EPA 1311	2	10/15/2015 18:00	10/26/2015 00:00	
TCLP_Cr_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_As_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_B_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Ba_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
TCLP_Ba_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Be_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Al_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
TCLP_As_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Tl_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Sb_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Pb_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Ni_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	



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Fax: 410.633.6553

RECEIVING LABORATORY:

Microbac - CGL
250 West 84th Drive
Merrillville, IN 46410
Phone : (219) 769-8378
Fax: (219) 769-1664

CERTIFICATION NEEDED:

- MD - Drinking Water
- VA - NELAC
- A2LA - Environmental
- Other _____
- NJ - NELAC
- PA - NELAC
- A2LA - Microbiology
- NONE

Project name: Morgantown-Fly Ash

Work Order TAT: 7

Project Manager: Kimberley M. Mack

Report Due : 10/22/2015 17:00

Sample ID: 15J0810-02

Matrix: Solid

Sampled: 10/22/2015 00:00

Analysis	TAT	Due Date	Expires	Comments
M_Co_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Cr_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Cu_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
% Solid / SM 2540 G-11	7	10/22/2015 16:00	11/09/2015 00:00	
M_Ag_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	

Containers Supplied:

SUBCONTRACT ORDER



Microbac Baltimore Work Order:

15J0810

Microbac Laboratories, Inc. - Baltimore

SENDING LABORATORY:

Microbac Laboratories, Inc. - Baltimore
 2101 Van Deman Street
 Baltimore, MD 21224
 Phone: 410.633.1800
 Fax: 410.633.6553

RECEIVING LABORATORY:

Microbac - CGL
 250 West 84th Drive
 Merrillville, IN 46410
 Phone: (219) 769-8378
 Fax: (219) 769-1664

CERTIFICATION NEEDED:

- MD - Drinking Water
 VA - NELAC
 A2LA - Environmental
 Other _____
 NJ - NELAC
 PA - NELAC
 A2LA - Microbiology
 NONE

Project name: Morgantown-Fly Ash

Work Order TAT: 7

Project Manager: Kimberley M. Mack

Report Due : 10/22/2015 17:00

Sample ID: 15J0810-03

Matrix: Solid

Sampled: 10/12/2015 00:00

Analysis	TAT	Due Date	Expires	Comments
M_Ag_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
TCLP_Pb_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
TCLP_Sc_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Be_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_V_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
TCLP_Cr_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
TCLP_Extraction / EPA 1311	2	10/15/2015 18:00	10/26/2015 00:00	
TCLP_Hg / EPA 7470A	7	10/22/2015 16:00	11/09/2015 00:00	
M_Co_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Li_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
SUB_Sulfur / ASTM D129-91	7	10/22/2015 16:00	11/09/2015 00:00	
M_K_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Tl_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Zn_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_B_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
pH_Lab / SW-846 9045D	7	10/22/2015 16:00	11/09/2015 00:00	
M_Al_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
TCLP_As_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
TCLP_Ag_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Mg_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
% Solid / SM 2540 G-11	7	10/22/2015 16:00	11/09/2015 00:00	
M_As_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Ba_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Fe_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Ca_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Mn_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Cu_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
TCLP_Cd_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Cd_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
TCLP_Ba_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Mo_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	



15J0810

Microbac Laboratories, Inc. - Baltimore

SENDING LABORATORY:

Microbac Laboratories, Inc. - Baltimore
 2101 Van Deman Street
 Baltimore, MD 21224
 Phone: 410.633.1800
 Fax: 410.633.6553

RECEIVING LABORATORY:

Microbac - CGL
 250 West 84th Drive
 Merrillville, IN 46410
 Phone : (219) 769-8378
 Fax: (219) 769-1664

CERTIFICATION NEEDED:

- | | | | |
|--|-------------------------------------|---|--------------------------------------|
| <input type="checkbox"/> MD - Drinking Water | <input type="checkbox"/> VA - NELAC | <input type="checkbox"/> A2LA - Environmental | <input type="checkbox"/> Other _____ |
| <input type="checkbox"/> NJ - NELAC | <input type="checkbox"/> PA - NELAC | <input type="checkbox"/> A2LA - Microbiology | <input type="checkbox"/> NONE |

Project name: Morgantown-Fly Ash

Work Order TAT: 7

Project Manager: Kimberley M. Mack

Report Due : 10/22/2015 17:00

Sample ID: 15J0810-03

Matrix: Solid

Sampled: 10/12/2015 00:00

Analysis	TAT	Due Date	Expires	Comments
M_Na_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Ni_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Pb_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Sb_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Cr_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	

Containers Supplied:

SUBCONTRACT ORDER



Microbac Baltimore Work Order:

15J0810

Microbac Laboratories, Inc. - Baltimore

SENDING LABORATORY:

Microbac Laboratories, Inc. - Baltimore
 2101 Van Deman Street
 Baltimore, MD 21224
 Phone: 410.633.1800
 Fax: 410.633.6553

RECEIVING LABORATORY:

Microbac - CGL
 250 West 84th Drive
 Merrillville, IN 46410
 Phone : (219) 769-8378
 Fax: (219) 769-1664

CERTIFICATION NEEDED:

- MD - Drinking Water
 VA - NELAC
 A2LA - Environmental
 Other _____
 NJ - NELAC
 PA - NELAC
 A2LA - Microbiology
 NONE

Project name: Morgantown-Fly Ash

Work Order TAT: 7

Project Manager: Kimberley M. Mack

Report Due : 10/22/2015 17:00

Sample ID: 15J0810-04

Matrix: Solid

Sample: 10/12/2015 00:00

Analysis	TAT	Due Date	Expires	Comments
M_V_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Cr_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
TCLP_Hg / EPA 7470A	7	10/22/2015 16:00	11/09/2015 00:00	
M_K_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
TCLP_Pb_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
TCLP_Se_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Tl_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Cu_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Zn_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
pH_Lab / SW-846 9045D	7	10/22/2015 16:00	11/09/2015 00:00	
SUB_Sulfur / ASTM D129-91	7	10/22/2015 16:00	11/09/2015 00:00	
TCLP_Ag_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Fe_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Mg_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Sb_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Li_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Co_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Al_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Ag_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
% Solid / SM 2540 G-11	7	10/22/2015 16:00	11/09/2015 00:00	
M_Mn_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Mo_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Na_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_B_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Pb_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
M_Cd_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
TCLP_As_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
TCLP_Ba_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
TCLP_Cd_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
TCLP_Cr_ICP / EPA 6010B	7	10/22/2015 16:00	04/09/2016 00:00	
TCLP_Extraction / EPA 1311	2	10/15/2015 18:00	10/26/2015 00:00	



15J0810

Microbac Laboratories, Inc. - Baltimore

SENDING LABORATORY:

Microbac Laboratories, Inc. - Baltimore
2101 Van Deman Street
Baltimore, MD 21224
Phone: 410.633.1800
Fax: 410.633.6553

RECEIVING LABORATORY:

Microbac - CGL
250 West 84th Drive
Merrillville, IN 46410
Phone: (219) 769-8378
Fax: (219) 769-1664

CERTIFICATION NEEDED:

- MD - Drinking Water, VA - NELAC, A2LA - Environmental, Other, NJ - NELAC, PA - NELAC, A2LA - Microbiology, NONE

Project name: Morgantown-Fly Ash

Work Order TAT: 7

Project Manager: Kimberley M. Mack

Report Due: 10/22/2015 17:00

Sample ID: 15J0810-04

Matrix: Soil

Sampled: 10/17/2015 00:00

Table with columns: Analysis, TAT, Due Date, Expires, Comments. Rows include M_As_ICP/EPA 6010B, M_Ba_ICP/EPA 6010B, M_Be_ICP/EPA 6010B, M_Ca_ICP/EPA 6010B, M_Ni_ICP/EPA 6010B.

Containers Supplied:

Released By: B. Reddick, Date: 10/14/15, Received By, Date

Client Name NRG Morgantown
Address 12620 Crain Highway
City, State, Zip Newburg MD 20664
Contact John Williams
Telephone # 301 843 4560

Project [] NPDES YES/NO [] NPDES YES/NO
Location [] Standard [] Level I (NAC) [] Level II ** [] Level III ** [] Level IV **
PO # [] RUSH* (notify lab)
MDE Drinking Water Certified Sampler? YES / NO
Certification # (needed by)

Sampled by (PRINT) ERLIM / MOCRONE **Sampler Signature** [Signature] **Sampler Phone #** Same
Send Report via [] e-mail (address) [] Mail [] Telephone [] Fax (fax #) **Hard Copy** []

Matrix

Client Sample ID	Grab	Composite	Filtered	Date Collected	Time Collected	No. of Containers	Requested Analyte	Comments
FLY Ash Sample	X	X		10-12-15		1	Chloride, Sulfate, PH (as treated), TSP metals, Total Metals, Barium, Lithium, Sulfur	PHILIP 15 square floor each to do CI + SO4
Bottom Ash	X					1		
Gypsum	X					1		
WBTP Filter cake	X					1		

Possible Hazard Identification [] Hazardous [] Non-Hazardous [] Radioactive [] Disposition as appropriate [] Return [] Archive

Number of Containers: 3.2
Refinanced By (signature): [Signature] **Date/TIME:** 10-13-15 1000
Refinanced By (signature): [Signature] **Date/TIME:** 10/13/15 1350
Refinanced By (signature): [Signature] **Date/TIME:** []
Refinanced By (signature): [Signature] **Date/TIME:** []

Printed Name/Address: [Signature]
Printed Name/Address: [Signature]
Printed Name/Address: [Signature]
Printed Name/Address: [Signature]



15J0810

Cooler Receipt Form / Sample Acceptance & Noncompliance Form

Microbac Laboratories, Inc., Baltimore Division
Control # 606-01
Effective Date: 01/23/15
Page 1 of 1

Number of Coolers Received: 1

Receipt Date / Time: 10/13/15 1350

Client: nyq marginstown

Work Order # _____

Form Completed By: [Signature] 32/10/17

Shipper:

Microbac Client UPS FedEx

Custody Tape Intact:

YES / NO / NA

Containers Intact:

YES / NO

Sample Received on Ice or refrigerated:

YES / NO

Radiation Scan:

Infrared (IR) Temperature: 22 °C

Chain of Custody Present with shipment:

Negative or _____ mR/hr

Sample Bottle IDs agree with COC:

YES / NO

Preservation requirements met:

YES / NO / Not Checked

Correct Number of Containers / Sample Volume:

YES / NO (If No, contact client immediately)

Headspace in container:

YES / NO ~~NA~~

Type of Sample:

Water Soil Wipes Oil Filter Solid

Sludge Food Swab Other

Container Type / Quantity:

- A - Unpreserved H2SO4 HNO3 HCl NaOH NaOH/Ascorbic Acid If preserved pH <2 , pH >10
- B - Unpreserved H2SO4 HNO3 HCl NaOH NaOH/Ascorbic Acid If preserved pH <2 , pH >10
- C - Unpreserved H2SO4 HNO3 HCl NaOH NaOH/Ascorbic Acid If preserved pH <2 , pH >10
- D - Unpreserved H2SO4 HNO3 HCl NaOH NaOH/Ascorbic Acid If preserved pH <2 , pH >10
- E - Unpreserved H2SO4 HNO3 HCl NaOH NaOH/Ascorbic Acid If preserved pH <2 , pH >10
- H - Unpreserved H2SO4 HNO3 HCl NaOH NaOH/Ascorbic Acid If preserved pH <2 , pH >10
- K - Unpreserved H2SO4 HNO3 HCl NaOH NaOH/Ascorbic Acid If preserved pH <2 , pH >10
- L - Unpreserved H2SO4 HNO3 HCl NaOH NaOH/Ascorbic Acid If preserved pH <2 , pH >10
- M - Unpreserved H2SO4 HNO3 HCl NaOH NaOH/Ascorbic Acid If preserved pH <2 , pH >10
- W - Unpreserved H2SO4 HNO3 HCl NaOH NaOH/Ascorbic Acid If preserved pH <2 , pH >10
- V - Unpreserved HCl HCl / Ascorbic Acid HCl / NaTHIO (Checked at time of Analysis)
- F - Unpreserved NaTHIO (Checked at time of Analysis)
- S - Unpreserved NaTHIO (Checked at time of Analysis)
- SN - Unpreserved NaTHIO NaTHIO/EDTA (Checked at time of Analysis)

client X
packages

- Unpreserved H2SO4 HNO3 HCl NaOH NaOH/Ascorbic Acid If preserved pH <2 , pH >10
- Unpreserved H2SO4 HNO3 HCl NaOH NaOH/Ascorbic Acid If preserved pH <2 , pH >10
- Unpreserved H2SO4 HNO3 HCl NaOH NaOH/Ascorbic Acid If preserved pH <2 , pH >10

Describe preservation requirements not met:

All Acid preserved <2 pH NaOH preserved >12 pH All others >2 and <10 (usually 4-8)

Sample ID: _____ H₂SO₄ HNO₃ NaOH _____ mls added
 Sample ID: _____ H₂SO₄ HNO₃ NaOH _____ mls added
 Sample ID: _____ H₂SO₄ HNO₃ NaOH _____ mls added
 Sample ID: _____ H₂SO₄ HNO₃ NaOH _____ mls added

H₂SO₄ - Sulfuric Acid, HNO₃ - Nitric Acid, NaOH - Sodium Hydroxide, ASC - Ascorbic Acid, NaTHIO - Sodium Thiosulfate

Describe Anomalies:

Contact information / Summary of Actions:

Date / Time: _____ Contact: _____ Contact By: _____

Comments: _____
