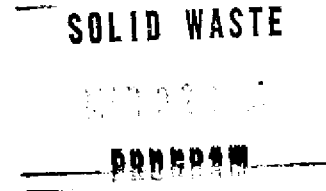


NRG Chalk Point, LLC
Chalk Point Generating Station
25100 Eagle Harbor Road
Aquasco, Maryland 20608

February 24, 2015

CERTIFIED MAIL
7014 0510 0000 9657 9613
Return Receipt Requested



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 NRG Chalk Point LLC's Chalk Point Generating Station

Dear Ms. Hynson,

Pursuant to COMAR 26.04.10.08, enclosed please find the 2014 CCB Tonnage Reports for NRG Chalk Point, LLC's Chalk Point Generating Station.

If you have any questions regarding this report, please contact me at 301-843-4439, or at timothy.klares@nrg.com.

Regards,

A handwritten signature in black ink, appearing to read "Timothy Klares", is written over a horizontal line.

Timothy Klares
Senior Environmental Analyst
Enclosures
Cc: CP1, CP2

**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 ed.dexter@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."*

Facility Name: Chalk Point 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: Chalk Point Generating Station

Name of Permit Holder: NRG Chalk Point, LLC

Facility Address: 25100 Eagle Harbor Road
Street

Facility Address: Aquasco Maryland 20608
City State Zip

County: Prince George’s County

Contact Information (Person filing report or Environmental Manager)

Facility Telephone No.: 301-843-4100 Facility Fax No.: 301-843-4281

Contact Name: Timothy Klares

Contact Title: Senior Environmental Specialist

Contact Address: 25100 Eagle Harbor Road
Street

Contact Address: Aquasco Maryland 20608
City State Zip

Contact Email: Timothy.Klares@nrg.com

Contact Telephone No.: 301-843-4439 Contact Fax No.: 301-843-4156

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

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

See Attachment A.

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

Table I: Volume and Weight of CCBs Generated for Calendar Year 2014: 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 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
69,874	8,548	52,119	301	502
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
69,874	8,548	101,811	588	980
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 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:

Of the 69,874 tons of flyash generated at Chalk Point in 2014, 53,673 tons were sent to
Morgantown for processing at the STAR Facility, and were 16,201 tons were disposed of at the
Brandywine Ash Site, located in Prince George's Co., Md.

All of the 8,548 tons of bottom ash generated in 2014 were sent to the Brandywine Ash Site,
located in Prince George's Co., Md for disposal.

On-Spec Gypsum generated at Chalk Point in 2014 was 101,811 tons. A total of 1,543 tons
were stored on-site at the end of 2013, and 3,703 tons were stored on-site at the end of 2014. Of
this total, 99,651 tons were transported by barge to LaFarge, located in Buchanan, NY.

Off-Spec Gypsum generated in 2014 was 588 tons, all of which was disposed of at Waste
Management's Amelia Landfill located in Jetersville, Va.

WWTP Fines produced in 2014 was 980 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:

On-Spec Gypsum: _____

Volume: 99,651 tons sold

Use: Wallboard

Flyash: _____

Volume: 51,047 tons sold

Use: Cementitious material for concrete products

If the space provided is insufficient, please attach additional information.

G. A description of how you intend to dispose of or use _____ certifying:

(a) The types and volume of CCBs intended to be disposed of or used at each site, and the type and volume of CCBs intended to be disposed of or used at each site:

*2626 tons
loss in processing
at STAR
facility ~*

FlyAsh: Approximately 70,000 tons/year to be generated, with approximately 54,000 tons to be sent to the Morgantown STAR facility for processing, and 16,000 tons to be disposed of at the Brandywine Ash site, in Prince George's County, Md.

Bottom Ash: Anticipate 8,500 tons/year to be generated and sent to the Brandywine Ash Site, located in Prince George's Co., Md, for disposal.

On-Spec Gypsum: Anticipate approximately 102,000 tons/year to be generated, with approximately 4,000 tons stored on site at the Chalk Point Generating Station and approximately 98,000 tons/year being transported by barge to LaFarge, located in Buchanan, NY.

Off-Spec Gypsum: Approximately 600 tons/year to be generated and disposed of at Waste Management's Amelia Landfill located in Jetersville, Va.

WWTP Fines: Approximately 1,000 tons/year 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.

On-Spec Gypsum: _____

Volume: 98,000 tons/year to be sold.

Use: Wallboard


Flyash: _____

Volume: 51,000 tons/year to be sold

Use: Cementitious material for concrete products

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:

	<u>Greg Stagers, General Manager, Chalk Point Generating Station</u> 301-843-4121	
Signature	Name, Title, & Telephone No. (Print or Type)	Date
	gregory.stagers@nrg.com	2/26/15
	Your Email Address	

V: Attachments (please list):

A)Chalk Point Generating Station Process Description

B)Microbac Report #14D0476: Analyses for Fly Ash, Bottom Ash, Off- Spec Gypsum and WWTP Fines

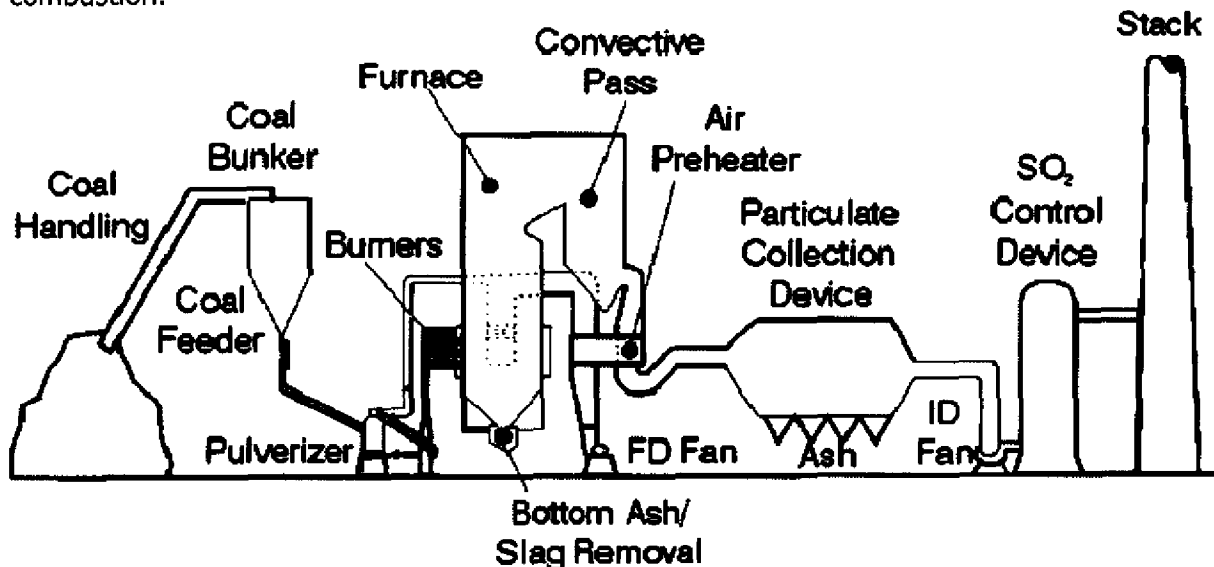
Attachment A

Chalk Point Generating Station
25100 Eagle Harbor Road,
Aquasco, Prince George's County, MD. 20608
301-843-4100

The Chalk Point Generating Station is located on the Patuxent River at Swanson's Creek in Prince George's County, MD. The facility is engaged in the generation of electrical energy for sale. The primary SIC code is 4911. There are two coal burning, opposite wall fired units each with a superheater, double reheat and economizer and each rated at 365 MWs (base loaded). The primary fuel for these boilers is bituminous coal. Pollution control devices on Unit 1 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. Pollution control devices on Unit 2 include low NOx burners with Separated Over-Fired Air (SOFA), and Selective Auto-Catalytic Reduction (SACR) 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 a common single stack.

Coal is currently delivered by rail. The rail cars are emptied using a rotary dumper then transferred by conveyor and dravo to either a storage pile or is fed directly to the units' bunker.

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



Attachment A

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

Ash is formed in the boiler while coal combusts. In general, pulverized coal combustion results in approximately 10% ash, of which 65%–85% is fly ash, and the remainder is coarser bottom ash. Bottom ash is a coarse material and falls to the bottom of the boiler. Fly ash is finer than bottom ash and is carried along the combustion process with flue gas. Particulate collection devices remove fly ash from the flue gas and the collected ash is transferred to one of two ash silos. Flyash that is not marketed is sent to the Brandywine Ash Site, located in Prince George's County, MD. The bottom ash is conveyed out of the bottom of the boiler via a wet sluice system to hydrobins, where the water is then decanted and the bottom ash sent to the Brandywine Ash Site.

Gypsum is a byproduct of SO₂ removal by the Flue Gas Desulfurization (FGD) system, commonly known as a scrubber. Chalk Point uses wet scrubbers for SO₂ removal. Wet scrubbing uses a slurry of limestone alkaline sorbent to remove SO₂ from the air stream. The byproduct - gypsum - is conveyed to a storage dome temporarily where it is then delivered by rail to the Morgantown Station and sent to Buchanan, New York to be made into wallboard. Gypsum that doesn't meet the specifications for wallboard production is transported for disposal to Waste Management's Amelia Landfill in Virginia. Waste Water Treatment Plant Fines (WWTP Fines) are removed from the Scrubber's WWTP as needed and transported to Waste Management's Amelia Landfill in Virginia for disposal.



Attachment B

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Baltimore Division
2101 Van Deman Street • Baltimore, MD 21224

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

COVER LETTER

Glenn St. Clair
NRG Energy - Chalk Point Gen. Sta.
25100 Chalk Point Road
Aquasco, MD 20608
RE: Chalk Point-FGD Special Yearly

July 11, 2014
Report No.: 14D0476

The report of analyses contains test results for samples received at Microbac Laboratories, Inc., Baltimore Division on 04/03/2014 13:20.

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

7/11/2014

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 Melanie C. Duszynski/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

Phone: 410-633-1800
 Fax: 410-633-6553
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CERTIFICATE OF ANALYSIS

NRG Energy - Chalk Point Gen. Sta. 25100 Chalk Point Road Aguasco, MD 20608	Project: Chalk Point-FGD Special Yearly Project Number: Chalk Pt-FGD Special Yearly Project Manager: Glenn St. Clair	Report: 14D0476 Reported: 07/11/2014 14:59
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SAMPLE SUMMARY

Sample ID	Laboratory ID	Matrix	Type	Date Sampled	Date Received
040214-Gypsum	14D0476-01	Solid	Not Specified	04/02/2014 10:50	04/03/2014 13:20
040114-Fly Ash	14D0476-02	Solid	Not Specified	04/01/2014 09:30	04/03/2014 13:20
040114-Bottom Ash	14D0476-03	Solid	Not Specified	04/01/2014 09:30	04/03/2014 13:20
040114-WWTP Fines	14D0476-04	Solid	Not Specified	04/01/2014 09:30	04/03/2014 13:20

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.

Melanie C. Duszynski, Project Manager

Original Report



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Baltimore Division

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Fax: 410-633-6553
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CERTIFICATE OF ANALYSIS

NRG Energy - Chalk Point Gen. Sta. 25100 Chalk Point Road Aguasco, MD 20608	Project: Chalk Point-FGD Special Yearly Project Number: Chalk Pt-FGD Special Yearly Project Manager: Glenn St. Clair	Report: 14D0476 Reported: 07/11/2014 14:59
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040214-Gypsum

14D0476-01 (Solid) Sampled: 04/02/2014 10:50; Type: Not Specified

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

Wet Chemistry

% Solids	80.75	0.05	% by Weight		040714 1547	040814 1255	EWM	SM (20) 2540G	
Chloride	81	41	mg/kg dry		040814 1223	040814 1300	BLL	SM(20)4500C1-C(M)	
pH	8.15	0.100	pH Units		040814 0940	040814 1155	EWM	EPA 9045D	Z10
Sulfate as SO4	83000	5800	mg/kg dry		041514 0740	041514 0904	LCR	ASTM D516-02(M)	

General Chemistry

Paint Filter Free Liquid	NEGATIVE		P/A		040714 0845	040714 0845	VAS	EPA 9095A	
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Mercury, Total by EPA 7000 Series Methods

Mercury	0.51	0.031	mg/kg dry		041814 1302	041814 1611	FAK	EPA 7471A	
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Metals, Total by EPA 6000/7000 Series Methods

Silver	ND	2.8	mg/kg dry		041414 1028	041614 1638	APS	EPA 6010B	
Aluminum	270	14	mg/kg dry		041414 1028	041614 1638	APS	EPA 6010B	
Arsenic	ND	5.6	mg/kg dry		041414 1028	041614 1638	APS	EPA 6010B	
Barium	23	2.8	mg/kg dry		041414 1028	041614 1638	APS	EPA 6010B	
Beryllium	ND	1.1	mg/kg dry		041414 1028	041614 1638	APS	EPA 6010B	
Calcium	190000	280	mg/kg dry		041414 1028	041614 2208	APS	EPA 6010B	
Cadmium	ND	0.56	mg/kg dry		041414 1028	041614 1638	APS	EPA 6010B	
Cobalt	ND	2.8	mg/kg dry		041414 1028	041614 1638	APS	EPA 6010B	
Chromium	ND	2.8	mg/kg dry		041414 1028	041614 1638	APS	EPA 6010B	
Copper	ND	2.8	mg/kg dry		041414 1028	041614 1638	APS	EPA 6010B	
Iron	220	11	mg/kg dry		041414 1028	041614 1638	APS	EPA 6010B	
Potassium	170	28	mg/kg dry		041414 1028	041614 1638	APS	EPA 6010B	
Magnesium	ND	280	mg/kg dry		041414 1028	041614 2208	APS	EPA 6010B	
Manganese	ND	2.8	mg/kg dry		041414 1028	041614 1638	APS	EPA 6010B	
Sodium	610	560	mg/kg dry		041414 1028	041614 1638	APS	EPA 6010B	B7, B9

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Melanie C. Duszynski

Melanie C. Duszynski, Project Manager

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Fax: 410-633-6553
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CERTIFICATE OF ANALYSIS

NRG Energy - Chalk Point Gen. Sta. 25100 Chalk Point Road Aquasco, MD 20608	Project: Chalk Point-FGD Special Yearly Project Number: Chalk Pt-FGD Special Yearly Project Manager: Glenn St. Clair	Report: 14D0476 Reported: 07/11/2014 14:59
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040214-Gypsum

14D0476-01 (Solid) Sampled: 04/02/2014 10:50; Type: Not Specified

Analyte	Result	Reporting		Limits	Prepared	Analyzed	Analyst	Method	Notes
		Limit	Units						

Microbac Laboratories, Inc. - Baltimore

Metals, Total by EPA 6000/7000 Series Methods

Analyte	Result	Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
Nickel	ND	5.6	mg/kg dry		041414 1028	041614 1638	APS	EPA 6010B	
Lead	ND	5.6	mg/kg dry		041414 1028	041614 1638	APS	EPA 6010B	
Antimony	ND	110	mg/kg dry		041414 1028	041614 2208	APS	EPA 6010B	D4
Selenium	ND	5.6	mg/kg dry		041414 1028	041614 1638	APS	EPA 6010B	
Thallium	ND	11	mg/kg dry		041414 1028	041614 1638	APS	EPA 6010B	
Vanadium	ND	2.8	mg/kg dry		041414 1028	041614 1638	APS	EPA 6010B	
Zinc	ND	2.8	mg/kg dry		041414 1028	041614 1638	APS	EPA 6010B	

TCLP Extraction by EPA 1311

Analyte	Result	Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
TCLP Extraction	NEGATIVE		N/A		041014 1428	041114 0928	MKM	EPA 1311	

TCLP Metals by 6000/7000 Series Methods

Analyte	Result	Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
Silver	ND	0.20	mg/L	5.0	041414 1115	041414 1741	APS	EPA 6010B	
Arsenic	ND	0.20	mg/L	5.0	041414 1115	041414 1741	APS	EPA 6010B	
Barium	ND	0.50	mg/L	100	041414 1115	041414 1741	APS	EPA 6010B	
Cadmium	ND	0.20	mg/L	1.0	041414 1115	041414 1741	APS	EPA 6010B	
Chromium	ND	0.20	mg/L	5.0	041414 1115	041414 1741	APS	EPA 6010B	
Mercury	ND	0.0020	mg/L	0.20	041714 1349	041814 1159	FAK	EPA 7470A	
Lead	ND	0.20	mg/L	5.0	041414 1115	041414 1741	APS	EPA 6010B	
Selenium	ND	0.20	mg/L	1.0	041414 1115	041414 1741	APS	EPA 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

Melanie C. Duszynski, Project Manager

Original Report



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CERTIFICATE OF ANALYSIS

NRG Energy - Chalk Point Gen. Sta. 25100 Chalk Point Road Aguasco, MD 20608	Project: Chalk Point-FGD Special Yearly Project Number: Chalk Pt-FGD Special Yearly Project Manager: Glenn St. Clair	Report: 14D0476 Reported: 07/11/2014 14:59
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040114-Fly Ash

14D0476-02 (Solid) Sampled: 04/01/2014 09:30; Type: Not Specified

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

Wet Chemistry

% Solids	100.4	0.05	% by Weight		040714 1547	040814 1255	EWM	SM (20) 2540G	
Chloride	ND	50	mg/kg dry		040814 1223	040814 1300	BLL	SM(20)4500CI-C(M)	
pH	9.28	0.100	pH Units		040814 0940	040814 1155	EWM	EPA 9045D	Z10c
Sulfate as SO4	22000	1200	mg/kg dry		041514 0740	041514 0904	LCR	ASTM D516-02(M)	

General Chemistry

Paint Filter Free Liquid	NEGATIVE		P/A		040714 0845	040714 0845	VAS	EPA 9095A	
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Mercury, Total by EPA 7000 Series Methods

Mercury	0.34	0.023	mg/kg dry		041814 1302	041814 1613	FAK	EPA 7471A	
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Metals, Total by EPA 6000/7000 Series Methods

Silver	ND	2.0	mg/kg dry		041414 1028	041614 1642	APS	EPA 6010B	
Aluminum	16000	10	mg/kg dry		041414 1028	041614 1642	APS	EPA 6010B	
Arsenic	63	4.1	mg/kg dry		041414 1028	041614 1642	APS	EPA 6010B	
Barium	120	2.0	mg/kg dry		041414 1028	041614 1642	APS	EPA 6010B	
Beryllium	3.3	0.82	mg/kg dry		041414 1028	041614 1642	APS	EPA 6010B	
Calcium	9600	20	mg/kg dry		041414 1028	041614 1642	APS	EPA 6010B	
Cadmium	1.3	0.41	mg/kg dry		041414 1028	041614 1642	APS	EPA 6010B	
Cobalt	ND	2.0	mg/kg dry		041414 1028	041614 1642	APS	EPA 6010B	
Chromium	43	2.0	mg/kg dry		041414 1028	041614 1642	APS	EPA 6010B	
Copper	17	2.0	mg/kg dry		041414 1028	041614 1642	APS	EPA 6010B	
Iron	54000	82	mg/kg dry		041414 1028	041714 1148	APS	EPA 6010B	
Potassium	1900	20	mg/kg dry		041414 1028	041614 1642	APS	EPA 6010B	
Magnesium	1100	20	mg/kg dry		041414 1028	041614 1642	APS	EPA 6010B	
Manganese	96	2.0	mg/kg dry		041414 1028	041614 1642	APS	EPA 6010B	
Sodium	920	410	mg/kg dry		041414 1028	041614 1642	APS	EPA 6010B	B7, B9
Nickel	6.9	4.1	mg/kg dry		041414 1028	041614 1642	APS	EPA 6010B	

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Melanie C. Duszynski

Melanie C. Duszynski, Project Manager

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Page 5 of 14



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CERTIFICATE OF ANALYSIS

NRG Energy - Chalk Point Gen. Sta. 25100 Chalk Point Road Aquasco, MD 20608	Project: Chalk Point-FGD Special Yearly Project Number: Chalk Pt-FGD Special Yearly Project Manager: Glenn St. Clair	Report: 14D0476 Reported: 07/11/2014 14:59
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040114-Fly Ash

14D0476-02 (Solid) Sampled: 04/01/2014 09:30; Type: Not Specified

Analyte	Result	Reporting		Limits	Prepared	Analyzed	Analyst	Method	Notes
		Limit	Units						

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Metals, Total by EPA 6000/7000 Series Methods

Analyte	Result	Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
Lead	17	4.1	mg/kg dry	041414 1028	041614 1642	APS	EPA 6010B		
Antimony	ND	8.2	mg/kg dry	041414 1028	041614 1642	APS	EPA 6010B		
Selenium	ND	4.1	mg/kg dry	041414 1028	041614 1642	APS	EPA 6010B		
Thallium	ND	8.2	mg/kg dry	041414 1028	041614 1642	APS	EPA 6010B		
Vanadium	100	2.0	mg/kg dry	041414 1028	041614 1642	APS	EPA 6010B		
Zinc	54	2.0	mg/kg dry	041414 1028	041614 1642	APS	EPA 6010B		

TCLP Extraction by EPA 1311

Analyte	Result	Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
TCLP Extraction	NEGATIVE		N/A	041014 1428	041114 0928	MKM	EPA 1311		

TCLP Metals by 6000/7000 Series Methods

Analyte	Result	Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
Silver	ND	0.20	mg/L	5.0	041414 1115	041414 1745	APS	EPA 6010B	
Arsenic	ND	0.20	mg/L	5.0	041414 1115	041414 1745	APS	EPA 6010B	
Barium	ND	0.50	mg/L	100	041414 1115	041414 1745	APS	EPA 6010B	
Cadmium	ND	0.20	mg/L	1.0	041414 1115	041414 1745	APS	EPA 6010B	
Chromium	ND	0.20	mg/L	5.0	041414 1115	041414 1745	APS	EPA 6010B	
Mercury	ND	0.0020	mg/L	0.20	041714 1349	041814 1211	FAK	EPA 7470A	
Lead	ND	0.20	mg/L	5.0	041414 1115	041414 1745	APS	EPA 6010B	
Selenium	ND	0.20	mg/L	1.0	041414 1115	041414 1745	APS	EPA 6010B	

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Melanie C. Duszynski

Melanie C. Duszynski, Project Manager

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CERTIFICATE OF ANALYSIS

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040114-Bottom Ash

14D0476-03 (Solid) Sampled: 04/01/2014 09:30; Type: Not Specified

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

% Solids	84.47	0.05	% by Weight		040714 1547	040814 1255	EWM	SM (20) 2540G	
Chloride	320	49	mg/kg dry		040814 1223	040814 1300	BLL	SM(20)4500Cl-C(M)	
pH	8.37	0.100	pH Units		040814 0940	040814 1155	EWM	EPA 9045D	Z10b
Sulfate as SO4	730	56	mg/kg dry		041514 0740	041514 0904	LCR	ASTM D516-02(M)	

General Chemistry

Paint Filter Free Liquid	NEGATIVE		P/A		040714 0845	040714 0845	VAS	EPA 9095A	
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Mercury, Total by EPA 7000 Series Methods

Mercury	ND	0.029	mg/kg dry		041814 1302	041814 1615	FAK	EPA 7471A	
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Metals, Total by EPA 6000/7000 Series Methods

Silver	ND	2.2	mg/kg dry		041414 1028	041614 1646	APS	EPA 6010B	
Aluminum	6200	11	mg/kg dry		041414 1028	041614 1646	APS	EPA 6010B	
Arsenic	4.9	4.4	mg/kg dry		041414 1028	041614 1646	APS	EPA 6010B	
Barium	32	2.2	mg/kg dry		041414 1028	041614 1646	APS	EPA 6010B	
Beryllium	ND	0.87	mg/kg dry		041414 1028	041614 1646	APS	EPA 6010B	
Calcium	1600	22	mg/kg dry		041414 1028	041614 1646	APS	EPA 6010B	
Cadmium	ND	0.44	mg/kg dry		041414 1028	041614 1646	APS	EPA 6010B	
Cobalt	ND	2.2	mg/kg dry		041414 1028	041614 1646	APS	EPA 6010B	
Chromium	7.0	2.2	mg/kg dry		041414 1028	041614 1646	APS	EPA 6010B	
Copper	ND	2.2	mg/kg dry		041414 1028	041614 1646	APS	EPA 6010B	
Iron	18000	8.7	mg/kg dry		041414 1028	041614 1646	APS	EPA 6010B	
Potassium	630	22	mg/kg dry		041414 1028	041614 1646	APS	EPA 6010B	
Magnesium	400	22	mg/kg dry		041414 1028	041614 1646	APS	EPA 6010B	
Manganese	23	2.2	mg/kg dry		041414 1028	041614 1646	APS	EPA 6010B	
Sodium	580	440	mg/kg dry		041414 1028	041614 1646	APS	EPA 6010B	B7, B9
Nickel	ND	4.4	mg/kg dry		041414 1028	041614 1646	APS	EPA 6010B	

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Melanie C. Duszynski

Melanie C. Duszynski, Project Manager

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CERTIFICATE OF ANALYSIS

NRG Energy - Chalk Point Gen. Sta. 25100 Chalk Point Road Aquasco, MD 20608	Project: Chalk Point-FGD Special Yearly Project Number: Chalk Pt-FGD Special Yearly Project Manager: Glenn St. Clair	Report: 14D0476 Reported: 07/11/2014 14:59
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040114-Bottom Ash

14D0476-03 (Solid) Sampled: 04/01/2014 09:30; Type: Not Specified

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

Metals, Total by EPA 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
Lead	ND	4.4	mg/kg dry	041414 1028	041614 1646	041614 1646	APS	EPA 6010B	
Antimony	ND	8.7	mg/kg dry	041414 1028	041614 1646	041614 1646	APS	EPA 6010B	
Selenium	ND	4.4	mg/kg dry	041414 1028	041614 1646	041614 1646	APS	EPA 6010B	
Thallium	ND	8.7	mg/kg dry	041414 1028	041614 1646	041614 1646	APS	EPA 6010B	
Vanadium	14	2.2	mg/kg dry	041414 1028	041614 1646	041614 1646	APS	EPA 6010B	
Zinc	6.6	2.2	mg/kg dry	041414 1028	041614 1646	041614 1646	APS	EPA 6010B	

TCLP Extraction by EPA 1311

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
TCLP Extraction	NEGATIVE		N/A		041014 1428	041114 0928	MKM	EPA 1311	

TCLP Metals by 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
Silver	ND	0.20	mg/L	5.0	041414 1115	041414 1757	APS	EPA 6010B	
Arsenic	ND	0.20	mg/L	5.0	041414 1115	041414 1757	APS	EPA 6010B	
Barium	ND	0.50	mg/L	100	041414 1115	041414 1757	APS	EPA 6010B	
Cadmium	ND	0.20	mg/L	1.0	041414 1115	041414 1757	APS	EPA 6010B	
Chromium	ND	0.20	mg/L	5.0	041414 1115	041414 1757	APS	EPA 6010B	
Mercury	ND	0.0020	mg/L	0.20	041714 1349	041814 1212	FAK	EPA 7470A	
Lead	ND	0.20	mg/L	5.0	041414 1115	041414 1757	APS	EPA 6010B	
Selenium	ND	0.20	mg/L	1.0	041414 1115	041414 1757	APS	EPA 6010B	

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Melanie C. Duszyński

Melanie C. Duszyński, Project Manager

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CERTIFICATE OF ANALYSIS

NRG Energy - Chalk Point Gen. Sta. 25100 Chalk Point Road Aquasco, MD 20608	Project: Chalk Point-FGD Special Yearly Project Number: Chalk Pt-FGD Special Yearly Project Manager: Glenn St. Clair	Report: 14D0476 Reported: 07/11/2014 14:59
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040114-WWTP Fines

14D0476-04 (Solid) Sampled: 04/01/2014 09:30; Type: Not Specified

Analyte	Result	Reporting		Limits	Prepared	Analyzed	Analyst	Method	Notes
		Limit	Units						

Microbac Laboratories, Inc. - Baltimore

Wet Chemistry

% Solids	62.78	0.05	% by Weight	040714 1547	040814 1255	EWM	SM (20) 2540G	
Chloride	2900	64	mg/kg dry	040814 1223	040814 1300	BLL	SM(20)4500CI-C(M)	
pH	7.48	0.100	pH Units	040814 0940	040814 1155	EWM	EPA 9045D	Z10a
Sulfate as SO4	100000	3700	mg/kg dry	041514 0740	041514 0904	LCR	ASTM D516-02(M)	

General Chemistry

Paint Filter Free Liquid	NEGATIVE		P/A	040714 0845	040714 0845	VAS	EPA 9095A	
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Mercury, Total by EPA 7000 Series Methods

Mercury	23	1.6	mg/kg dry	041814 1302	041814 1648	FAK	EPA 7471A	
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Metals, Total by EPA 6000/7000 Series Methods

Silver	ND	3.8	mg/kg dry	041414 1028	041614 1650	APS	EPA 6010B	
Aluminum	5900	19	mg/kg dry	041414 1028	041614 1650	APS	EPA 6010B	
Arsenic	ND	7.5	mg/kg dry	041414 1028	041614 1650	APS	EPA 6010B	
Barium	240	3.8	mg/kg dry	041414 1028	041614 1650	APS	EPA 6010B	
Beryllium	ND	1.5	mg/kg dry	041414 1028	041614 1650	APS	EPA 6010B	
Calcium	230000	380	mg/kg dry	041414 1028	041714 0933	APS	EPA 6010B	
Cadmium	ND	0.75	mg/kg dry	041414 1028	041614 1650	APS	EPA 6010B	
Cobalt	ND	3.8	mg/kg dry	041414 1028	041614 1650	APS	EPA 6010B	
Chromium	27	3.8	mg/kg dry	041414 1028	041614 1650	APS	EPA 6010B	
Copper	19	3.8	mg/kg dry	041414 1028	041614 1650	APS	EPA 6010B	
Iron	11000	15	mg/kg dry	041414 1028	041614 1650	APS	EPA 6010B	
Potassium	3600	38	mg/kg dry	041414 1028	041614 1650	APS	EPA 6010B	
Magnesium	3500	380	mg/kg dry	041414 1028	041714 0933	APS	EPA 6010B	
Manganese	590	3.8	mg/kg dry	041414 1028	041614 1650	APS	EPA 6010B	
Sodium	1300	750	mg/kg dry	041414 1028	041614 1650	APS	EPA 6010B	B7, B9
Nickel	33	7.5	mg/kg dry	041414 1028	041614 1650	APS	EPA 6010B	

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Melanie C. Duszynski, Project Manager

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040114-WWTP Fines

14D0476-04 (Solid) Sampled: 04/01/2014 09:30; Type: Not Specified

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

Metals, Total by EPA 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
Lead	7.9	7.5	mg/kg dry	041414 1028	041614 1650	041614 1650	APS	EPA 6010B	
Antimony	ND	15	mg/kg dry	041414 1028	041614 1650	041614 1650	APS	EPA 6010B	
Selenium	69	7.5	mg/kg dry	041414 1028	041614 1650	041614 1650	APS	EPA 6010B	
Thallium	ND	15	mg/kg dry	041414 1028	041614 1650	041614 1650	APS	EPA 6010B	
Vanadium	5.7	3.8	mg/kg dry	041414 1028	041614 1650	041614 1650	APS	EPA 6010B	
Zinc	43	3.8	mg/kg dry	041414 1028	041614 1650	041614 1650	APS	EPA 6010B	

TCLP Extraction by EPA 1311

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
TCLP Extraction	NEGATIVE		N/A	041014 1428	041114 0928	041114 0928	MKM	EPA 1311	

TCLP Metals by 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
Silver	ND	0.20	mg/L	5.0	041414 1115	041414 1801	APS	EPA 6010B	
Arsenic	ND	0.20	mg/L	5.0	041414 1115	041414 1801	APS	EPA 6010B	
Barium	ND	0.50	mg/L	100	041414 1115	041414 1801	APS	EPA 6010B	
Cadmium	ND	0.20	mg/L	1.0	041414 1115	041414 1801	APS	EPA 6010B	
Chromium	ND	0.20	mg/L	5.0	041414 1115	041414 1801	APS	EPA 6010B	
Mercury	ND	0.0020	mg/L	0.20	041714 1349	041814 1213	FAK	EPA 7470A	
Lead	ND	0.20	mg/L	5.0	041414 1115	041414 1801	APS	EPA 6010B	
Selenium	ND	0.20	mg/L	1.0	041414 1115	041414 1801	APS	EPA 6010B	

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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.

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	04/30/2015
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 Laboratories, Inc., Richmond Division			
VA-R	Commonwealth of Virginia (NELAC) - Richmond	460022	06/14/2015

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CERTIFICATE OF ANALYSIS

NRG Energy - Chalk Point Gen. Sta.
25100 Chalk Point Road
Aquasco, MD 20608

Project: Chalk Point-FGD Special Yearly
Project Number: Chalk Pt-FGD Special Yearly
Project Manager: Glenn St. Clair

Report: 14D0476
Reported: 07/11/2014 14:59

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 @ 28.1°C
- Z10b pH @ 23.6°C
- Z10a pH @ 23.0°C
- Z10 pH @ 22.6°C
- D4 Sample diluted due to matrix interference.
- B9 Target analyte detected in the initial calibration blank at or above reporting limit.
- B7 Target analyte detected in continuing calibration blank at or above reporting limit.



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Cooler Receipt Log

Cooler ID: Default Cooler	Cooler Temp: 1.30°C	Work Order: 14D0476
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:





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2101 Van Daman St, Baltimore, MD 21224
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Fax: 410-833-8553
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Work Order Number: **14DD0474**

Chain of Custody Record

Page **1** of **1**

Instructions for completing the Chain of Custody Record on back.

Client Name **NR6 Energy - (Hall) Gen. Sta.** Project **SPECIAL-FGD-YEARLY**
 Address **25100 Choptank Rd.** Location **CP-FGD-Special-Vrly**
 City, State, Zip **Agasson, MD 20608** PO #
 Contact **Glen St. Clair** Compliance Monitoring? Yes No
 Telephone # **301-843-4172** (1) Agency/Program
 Sampled by (PRINT) **K. Watts** Sampler Signature **K. Watts** Sampler Phone # **301-843-4170** Sampler (DW) Cert #
 Send Report via **e-mail (address) glenn.stclair@energy.com** Telephone **WV** Fax (fax #) **301-843-4175**

Matrix Types: Air(A), Childrens Product(CP), Food(F), Paint(P), Soil/Solid(S), CWQ, Wipe(WI), Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)

Client Sample ID	Matrix	Grab	Composite	Filtered	Date Collected	Time Collected	No. of Containers	Requested Analysis	Comments
040214 - Gypsum		✓			4-2-14	1050	1	PH (as received basis) Chloride TCR - Ag, As, Ba, Cd, Cr, Pb, Se, Hg	SM (20) H500 Cl-C6m
040114 - Fly Ash		✓			4-1-14	0930	1	Paint Filter Test	ASTM D816-02(M)
040114 - Bottom Ash		✓			4-1-14	0930	1	Total Metals	EPA 9045
040114 - WWT Pines		✓			4-1-14	0930	1	Sugr Method for Lead	EPA 6010 B, 60846 COMAR 26.2104.05 EPA 9005 ASIM D2492

This space is reserved for lab use only.

Possible Hazard Identification: Hazardous Non-Hazardous
 Number of Containers: **1**
 Relinquished By (signature): **K. Watts**
 Relinquished By (signature): **Glen St. Clair**
 Relinquished By (signature): **M. L. T.**
 Cooler Number: **13**
 Temp upon receipt (C): **13**
 Sample Received on Ice:
 Refrigerated from Client: / No
 Radiation Scan Acceptable: Yes / No

Sample Disposition	Dispose as appropriate	Return	Archive
Date/Time: 4/2/14 1320			
Received By (signature): K. Watts			
Printed Name/Affiliation: K. Watts / NR6			
Date/Time: 4/2/14 1320			
Received By (signature): Brian Reddick			
Printed Name/Affiliation: M. L. T.			
Date/Time: 4/2/14 1320			
Received for Lab By (signature): M. L. T.			
Printed Name/Affiliation: M. L. T.			