Chalk Point Generating Station
25100 Chalk Point Road
Aquasco, MD 20608
W 301-843-4439 C 240-299-3377
timothy.klares@nrg.com

February 29, 2016

CERTIFIED MAIL
7014 0510 0000 9657 9774
Return Receipt Requested

Maryland Department of the Environment
Land Management Administration
Solid Waste Program
1800 Washington Blvd., Suite 605
Baltimore, MD 21230-1719

Re: NRG Chalk Point LLC
Chalk Point Generating Station
Coal Combustion Byproducts (CCBs) Annual Generator Tonnage Report
CY 2015

Dear Madam/Sir,

The CCB Annual Generator Tonnage Report (CY2015) for the subject facility is enclosed.

If you have any questions or need additional information, please contact me at 301-843-4439, or at the email address noted above.

Sincerely,

Tim Klares
Senior Environmental Specialist
Enclosures

MARYLAND DEPARTMENT OF THE ENVIRONMENT
Land Management Administration • Solid Waste Program
1800 Washington Boulevard • Suite 605 • Baltimore Maryland 21230-1719
410-537-3315 • 800-633-6101 x3315 • www.mde.maryland.gov

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

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: 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 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				
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
43,234 Volume of CCB, in Cubic Yards	3,977 Volume of CCB, in Cubic Yards	35,537 Volume of CCB, in Cubic Yards	529 Volume of CCB, in Cubic Yards	366 Volume of CCB, in Cubic Yards
43,234 Weight of CCB, in Tons	3,977 Weight of CCB, in Tons	69,419 Weight of CCB, in Tons	1,034 Weight of CCB, in Tons	715 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:

Of the 43,234 tons of **flyash** generated at Chalk Point in 2015, 1,567 tons were disposed of at the Brandywine Ash Site, located in Prince George's Co., Md., and 41,667 tons were sent to Morgantown for processing at the STAR Facility, where Morgantown flyash and Chalk Point flyash are comingled and injected into the Staged Turbulent Air Reactor (STAR) as a fuel to produce flyash that is suitable for beneficial uses. During the STAR process, the mass and volume of ash injected is reduced as Carbon and moisture are released from the ash, and the resulting beneficiated ash is sent to the Morgantown storage dome for sale and shipment by SEFA.

All of the 3,977 tons of **bottom ash** generated in 2015 were sent to the Brandywine Ash Site, located in Prince George's Co., Md for disposal.
On-Spec Gypsum generated at Chalk Point in 2015 was 69,419 tons. A total of 3,703 tons were stored on-site at the end of 2014, and 1,051 tons were stored on-site at the end of 2015. Of this total, 72,071 tons were transported by barge to LaFarge, Inc. located in Buchanan, **Off-Spec Gypsum** generated in 2015 was 1,034 tons, all of which was disposed of at Waste Management's Amelia Landfill located in Jetersville, Va. **WWTP Fines** produced in 2015 was 715 tons, all of which was disposed of at Waste Management Inc's Amelia Landfill located in Jetersville, Va.

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

On-Spec Gypsum:
Volume: 72,071 tons sold.
Use: Wallboard
Flyash: 41,667 tons sold.
Use: Cementitous material for concrete products.

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 43,230 tons/year to be generated, with approximately 41,670 tons to be sent to the Morgantown STAR facility for processing, and 1,560 tons to be disposed of at the Brandywine Ash site , in Prince George's County, Md.
Bottom Ash: Anticipate 3,980 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 69,400 tons/year to be generated, with approximately 1,000 tons stored on site at the Chalk Point Generating Station and approximately 68,400 tons/year being transported by barge to LaFarge, located in Buchanan, NY.
Off-Spec Gypsum: Approximately 1,000 tons/year to be generated and disposed of at Waste Management's Amelia Landfill located in Jetersville, Va.
WWTP Fines: Approximately 700 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: 68,400 tons/year to be sold.
Use: Wallboard
Flyash:
Volume: 41,670 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:

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.		
	Greg Staggers, General Manager, Chalk Point Generating Station 301-843-4121	2/29/2016
Signature	Name, Title, & Telephone No. (Print or Type)	Date
	gregory.staggers@nrg.com Your Email Address	

V: Attachments (please list):

A)Chalk Point Generating Station Process Description

B)Microbac Report #15L0433: Analyses for Fly Ash, Bottom Ash, Off- Spec Gypsum and WWTP Fines

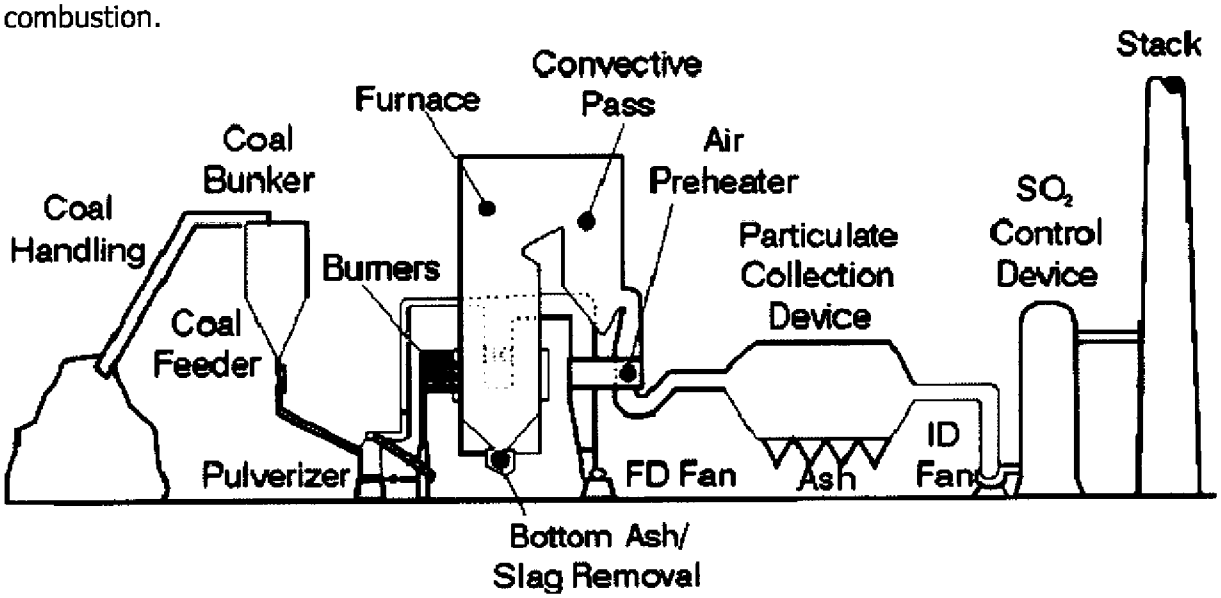
Attachment A

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 Buchannan, New York to be made into wallboard. Gyspum that doesn't meet the specifications for wallboard production is transported for disposal to Waste Management's Amelia Landfill in Virginia. Waste Water Treatment Plant Fines (WWTP Fines) are removed from the Scrubber's WWTP as needed and transported to Waste Management's Amelia Landfill in Virginia for disposal.

ATTACHMENT B – CCB Laboratory Analyses

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Baltimore Division

2101 Van Deman Street • Baltimore, MD 21224

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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

January 20, 2016
Report No.: 15L0433

The report of analyses contains test results for samples received at Microbac Laboratories, Inc., Baltimore Division on 12/03/2015 13:40.

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

Kimberley Mack — 1/20/2016

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

Phone: 410-633-1800
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CERTIFICATE OF ANALYSIS

NRG Energy - Chalk Point Gen. Sta.	Project: Chalk Point-FGD Special Yearly	Report: 15L0433
25100 Chalk Point Road	Project Number: Chalk Pt-FGD Special Yearly	Reported: 01/20/2016 14:59
Aquasco, MD 20608	Project Manager: Glenn St. Clair	

SAMPLE SUMMARY

Sample ID	Laboratory ID	Matrix	Type	Date Sampled	Date Received
89-120115-Gypsum	15L0433-01	Solid	Grab	12/01/2015 12:00	12/03/2015 13:40
89-120115-Fly Ash	15L0433-02	Solid	Grab	12/01/2015 12:00	12/03/2015 13:40
89-120115-Bottom Ash	15L0433-03	Solid	Grab	12/01/2015 12:00	12/03/2015 13:40
89-120115-WWTP Fines	15L0433-04	Solid	Grab	12/01/2015 12:00	12/03/2015 13:40

Microbac Laboratories, Inc. - Baltimore

Kimberley Mack

Kimberley M. Mack, Project Manager

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

Original Report

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25100 Chalk Point Road	Project Number: Chalk Pt-FGD Special Yearly	Reported: 01/20/2016 14:59
Aquasco, MD 20608	Project Manager: Glenn St. Clair	

89-120115-Gypsum

15L0433-01 (Solid) Sampled: 12/01/2015 12:00; Type: Grab

Microbac Laboratories, Inc. - Baltimore

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
Wet Chemistry									
% Solids	**78.92**	0.05	% by Weight		121115 1530	121315 0920	LCR	SM 2540 G-11	
Chloride	**120**	13	mg/kg dry		120815 1412	120815 1626	PPM	SW-846 9056A	
pH	**5.96**	0.100	pH Units		121315 0750	121315 0930	LCR	SW-846 9045D	Z10a
Sulfate as SO4	**24000**	130	mg/kg dry		120815 1412	120915 1401	PPM	SW-846 9056A	
General Chemistry									
Paint Filter Free Liquid	**NEGATIVE**		P/A		120815 1202	120815 1212	VAS	SW-846 9095B	
Mercury, Total by EPA 7000 Series Methods									
Mercury	**0.43**	0.032	mg/kg dry		120915 1323	120915 1820	FAK	EPA 7471A	
Metals, Total by EPA 6000/7000 Series Methods									
Aluminum	**250**	16	mg/kg dry		121115 1748	121815 1250	APS	EPA 6010B	
Antimony	ND	13	mg/kg dry		121115 1748	121815 1250	APS	EPA 6010B	
Arsenic	ND	13	mg/kg dry		121115 1748	122215 1026	APS	EPA 6010B	
Barium	**25**	3.1	mg/kg dry		121115 1748	121815 1250	APS	EPA 6010B	
Beryllium	ND	1.3	mg/kg dry		121115 1748	121815 1250	APS	EPA 6010B	
Cadmium	ND	0.63	mg/kg dry		121115 1748	121815 1250	APS	EPA 6010B	
Chromium	ND	3.1	mg/kg dry		121115 1748	121815 1250	APS	EPA 6010B	
Cobalt	ND	3.1	mg/kg dry		121115 1748	121815 1250	APS	EPA 6010B	
Copper	ND	3.1	mg/kg dry		121115 1748	121815 1250	APS	EPA 6010B	
Iron	**190**	13	mg/kg dry		121115 1748	121815 1250	APS	EPA 6010B	
Lead	ND	6.3	mg/kg dry		121115 1748	121815 1250	APS	EPA 6010B	
Magnesium	ND	31	mg/kg dry		121115 1748	121815 1250	APS	EPA 6010B	
Manganese	ND	3.1	mg/kg dry		121115 1748	121815 1250	APS	EPA 6010B	
Nickel	ND	6.3	mg/kg dry		121115 1748	121815 1250	APS	EPA 6010B	
Potassium	**150**	31	mg/kg dry		121115 1748	121815 1250	APS	EPA 6010B	

Microbac Laboratories, Inc. - Baltimore

Kimberley Mack

Kimberley M. Mack, Project Manager

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25100 Chalk Point Road	Project Number: Chalk Pt-FGD Special Yearly	Reported: 01/20/2016 14:59
Aquasco, MD 20608	Project Manager: Glenn St. Clair	

89-120115-Gypsum

15L0433-01 (Solid) Sampled: 12/01/2015 12:00; Type: Grab

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
Microbac Laboratories, Inc. - Baltimore									
Metals, Total by EPA 6000/7000 Series Methods									
Selenium	ND	6.3	mg/kg dry		121115 1748	121815 1250	APS	EPA 6010B	
Silver	ND	3.1	mg/kg dry		121115 1748	121815 1250	APS	EPA 6010B	
Sodium	ND	630	mg/kg dry		121115 1748	121815 1250	APS	EPA 6010B	
Thallium	ND	13	mg/kg dry		121115 1748	121815 1250	APS	EPA 6010B	
Vanadium	ND	3.1	mg/kg dry		121115 1748	121815 1250	APS	EPA 6010B	
Zinc	ND	3.1	mg/kg dry		121115 1748	121815 1250	APS	EPA 6010B	
TCLP Extraction by EPA 1311									
TCLP Extraction	**COMPLETED**		N/A		120815 1924	121015 1236	TRB	EPA 1311	Q25, Z10e
TCLP Metals by 6000/7000 Series Methods									
Arsenic	ND	0.20	mg/L	5.0	121015 1915	121415 1125	APS	EPA 6010B	
Barium	ND	0.50	mg/L	100	121015 1915	121415 1125	APS	EPA 6010B	
Cadmium	ND	0.20	mg/L	1.0	121015 1915	121415 1125	APS	EPA 6010B	
Chromium	ND	0.20	mg/L	5.0	121015 1915	121415 1125	APS	EPA 6010B	
Lead	ND	0.20	mg/L	5.0	121015 1915	121415 1125	APS	EPA 6010B	
Mercury	ND	0.0020	mg/L	0.20	121015 1101	121015 1646	FAK	EPA 7470A	
Selenium	ND	0.20	mg/L	1.0	121015 1915	121415 1125	APS	EPA 6010B	
Silver	ND	0.20	mg/L	5.0	121015 1915	121415 1125	APS	EPA 6010B	

Microbac Laboratories, Inc. - Baltimore

Kimberley Mack

Kimberley M. Mack, Project Manager

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25100 Chalk Point Road	Project Number: Chalk Pt-FGD Special Yearly	Reported: 01/20/2016 14:59
Aquasco, MD 20608	Project Manager: Glenn St. Clair	

89-120115-Fly Ash

15L0433-02 (Solid) Sampled: 12/01/2015 12:00; Type: Grab

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
Microbac Laboratories, Inc. - Baltimore									
Wet Chemistry									
% Solids	**100.0**	0.05	% by Weight		121115 1530	121315 0920	LCR	SM 2540 G-11	
Chloride	**120**	10	mg/kg dry		120815 1412	120815 1651	PPM	SW-846 9056A	
pH	**2.39**	0.100	pH Units		121315 0750	121315 0930	LCR	SW-846 9045D	Z10d
Sulfate as SO4	**87000**	1000	mg/kg dry		120815 1412	120915 1426	PPM	SW-846 9056A	
General Chemistry									
Paint Filter Free Liquid	**NEGATIVE**		P/A		120815 1202	120815 1212	VAS	SW-846 9095B	
Mercury, Total by EPA 7000 Series Methods									
Mercury	**0.14**	0.024	mg/kg dry		120915 1323	120915 1828	FAK	EPA 7471A	
Metals, Total by EPA 6000/7000 Series Methods									
Aluminum	**24000**	11	mg/kg dry		121115 1748	121815 1254	APS	EPA 6010B	
Antimony	ND	8.5	mg/kg dry		121115 1748	121815 1254	APS	EPA 6010B	
Arsenic	**181**	21.1	mg/kg dry		121115 1748	010716 1814	APS	EPA 6020	
Barium	**260**	2.1	mg/kg dry		121115 1748	121815 1254	APS	EPA 6010B	
Beryllium	**5.5**	0.85	mg/kg dry		121115 1748	121815 1254	APS	EPA 6010B	
Cadmium	**0.98**	0.42	mg/kg dry		121115 1748	121815 1254	APS	EPA 6010B	
Chromium	**81**	2.1	mg/kg dry		121115 1748	121815 1254	APS	EPA 6010B	
Cobalt	**15**	2.1	mg/kg dry		121115 1748	121815 1254	APS	EPA 6010B	
Copper	**5.6**	2.1	mg/kg dry		121115 1748	121815 1254	APS	EPA 6010B	
Iron	**61000**	85	mg/kg dry		121115 1748	121815 1512	APS	EPA 6010B	
Lead	**31**	4.2	mg/kg dry		121115 1748	121815 1254	APS	EPA 6010B	
Magnesium	**1600**	21	mg/kg dry		121115 1748	121815 1254	APS	EPA 6010B	
Manganese	ND	2.1	mg/kg dry		121115 1748	121815 1254	APS	EPA 6010B	
Nickel	**21**	4.2	mg/kg dry		121115 1748	121815 1254	APS	EPA 6010B	
Potassium	**3300**	21	mg/kg dry		121115 1748	121815 1254	APS	EPA 6010B	
Selenium	**42**	42	mg/kg dry		121115 1748	121815 1512	APS	EPA 6010B	

Microbac Laboratories, Inc. - Baltimore

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Kimberley Mack

Kimberley M. Mack, Project Manager

Original Report

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CERTIFICATE OF ANALYSIS

NRG Energy - Chalk Point Gen. Sta.	Project: Chalk Point-FGD Special Yearly	Report: 15L0433
25100 Chalk Point Road	Project Number: Chalk Pt-FGD Special Yearly	Reported: 01/20/2016 14:59
Aquasco, MD 20608	Project Manager: Glenn St. Clair	

89-120115-Fly Ash

15L0433-02 (Solid) Sampled: 12/01/2015 12:00; Type: Grab

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
Microbac Laboratories, Inc. - Baltimore									
Metals, Total by EPA 6000/7000 Series Methods									
Silver	ND	2.1	mg/kg dry		121115 1748	121815 1254	APS	EPA 6010B	
Sodium	**2200**	420	mg/kg dry		121115 1748	121815 1254	APS	EPA 6010B	
Thallium	ND	8.5	mg/kg dry		121115 1748	121815 1254	APS	EPA 6010B	
Vanadium	**160**	2.1	mg/kg dry		121115 1748	121815 1254	APS	EPA 6010B	
Zinc	**90**	2.1	mg/kg dry		121115 1748	121815 1254	APS	EPA 6010B	
TCLP Extraction by EPA 1311									
TCLP Extraction	**COMPLETED**		N/A		120815 1924	121015 1236	TRB	EPA 1311	Q25, Z10e
TCLP Metals by 6000/7000 Series Methods									
Arsenic	**2.9**	0.20	mg/L	5.0	121015 1915	121415 1129	APS	EPA 6010B	
Barium	ND	0.50	mg/L	100	121015 1915	121415 1129	APS	EPA 6010B	
Cadmium	ND	0.20	mg/L	1.0	121015 1915	121415 1129	APS	EPA 6010B	
Chromium	**1.7**	0.20	mg/L	5.0	121015 1915	121415 1129	APS	EPA 6010B	
Lead	ND	0.20	mg/L	5.0	121015 1915	121415 1129	APS	EPA 6010B	
Mercury	ND	0.0020	mg/L	0.20	121015 1101	121015 1648	FAK	EPA 7470A	
Selenium	**0.64**	0.20	mg/L	1.0	121015 1915	121415 1129	APS	EPA 6010B	
Silver	ND	0.20	mg/L	5.0	121015 1915	121415 1129	APS	EPA 6010B	

Microbac Laboratories, Inc. - Baltimore

Kimberley Mack

Kimberley M. Mack, Project Manager

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Baltimore Division
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CERTIFICATE OF ANALYSIS

NRG Energy - Chalk Point Gen. Sta.	Project: Chalk Point-FGD Special Yearly	Report: 15L0433
25100 Chalk Point Road	Project Number: Chalk Pt-FGD Special Yearly	Reported: 01/20/2016 14:59
Aquasco, MD 20608	Project Manager: Glenn St. Clair	

89-120115-Bottom Ash

15L0433-03 (Solid) Sampled: 12/01/2015 12:00; Type: Grab

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
Microbac Laboratories, Inc. - Baltimore									
Wet Chemistry									
% Solids	**99.42**	0.05	% by Weight		121115 1530	121315 0920	LCR	SM 2540 G-11	
Chloride	**13**	9.8	mg/kg dry		120815 1412	120815 1715	PPM	SW-846 9056A	
pH	**4.15**	0.100	pH Units		121315 0750	121315 0930	LCR	SW-846 9045D	Z10c
Sulfate as SO4	**20**	9.8	mg/kg dry		120815 1412	120815 1715	PPM	SW-846 9056A	
General Chemistry									
Paint Filter Free Liquid	**NEGATIVE**		P/A		120815 1202	120815 1212	VAS	SW-846 9095B	
Mercury, Total by EPA 7000 Series Methods									
Mercury	ND	0.025	mg/kg dry		120915 1323	120915 1829	FAK	EPA 7471A	
Metals, Total by EPA 6000/7000 Series Methods									
Aluminum	**640**	9.8	mg/kg dry		121115 1748	121815 1258	APS	EPA 6010B	
Antimony	ND	7.8	mg/kg dry		121115 1748	121815 1258	APS	EPA 6010B	
Arsenic	ND	7.8	mg/kg dry		121115 1748	122215 1035	APS	EPA 6010B	
Barium	**3.0**	2.0	mg/kg dry		121115 1748	121815 1258	APS	EPA 6010B	
Beryllium	ND	0.78	mg/kg dry		121115 1748	121815 1258	APS	EPA 6010B	
Cadmium	ND	0.39	mg/kg dry		121115 1748	121815 1258	APS	EPA 6010B	
Chromium	**2.4**	2.0	mg/kg dry		121115 1748	121815 1258	APS	EPA 6010B	
Cobalt	ND	2.0	mg/kg dry		121115 1748	121815 1258	APS	EPA 6010B	
Copper	ND	2.0	mg/kg dry		121115 1748	121815 1258	APS	EPA 6010B	
Iron	**4800**	7.8	mg/kg dry		121115 1748	121815 1258	APS	EPA 6010B	
Lead	ND	3.9	mg/kg dry		121115 1748	121815 1258	APS	EPA 6010B	
Magnesium	**59**	20	mg/kg dry		121115 1748	121815 1258	APS	EPA 6010B	
Manganese	ND	2.0	mg/kg dry		121115 1748	121815 1258	APS	EPA 6010B	
Nickel	ND	3.9	mg/kg dry		121115 1748	121815 1258	APS	EPA 6010B	
Potassium	**32**	20	mg/kg dry		121115 1748	121815 1258	APS	EPA 6010B	
Selenium	ND	3.9	mg/kg dry		121115 1748	121815 1258	APS	EPA 6010B	

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Kimberley Mack

Kimberley M. Mack, Project Manager

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NRG Energy - Chalk Point Gen. Sta.	Project: Chalk Point-FGD Special Yearly	Report: 15L0433
25100 Chalk Point Road	Project Number: Chalk Pt-FGD Special Yearly	Reported: 01/20/2016 14:59
Aquasco, MD 20608	Project Manager: Glenn St. Clair	

89-120115-Bottom Ash

15L0433-03 (Solid) Sampled: 12/01/2015 12:00; Type: Grab

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
Microbac Laboratories, Inc. - Baltimore									
Metals, Total by EPA 6000/7000 Series Methods									
Silver	ND	2.0	mg/kg dry		121115 1748	121815 1258	APS	EPA 6010B	
Sodium	ND	390	mg/kg dry		121115 1748	121815 1258	APS	EPA 6010B	
Thallium	ND	7.8	mg/kg dry		121115 1748	121815 1258	APS	EPA 6010B	
Vanadium	**3.2**	2.0	mg/kg dry		121115 1748	121815 1258	APS	EPA 6010B	
Zinc	**69**	2.0	mg/kg dry		121115 1748	121815 1258	APS	EPA 6010B	
TCLP Extraction by EPA 1311									
TCLP Extraction	**COMPLETED**		N/A		120815 1924	121015 1236	TRB	EPA 1311	Q25, Z10e
TCLP Metals by 6000/7000 Series Methods									
Arsenic	ND	0.20	mg/L	5.0	121015 1915	121415 1140	APS	EPA 6010B	
Barium	ND	0.50	mg/L	100	121015 1915	121415 1140	APS	EPA 6010B	
Cadmium	ND	0.20	mg/L	1.0	121015 1915	121415 1140	APS	EPA 6010B	
Chromium	ND	0.20	mg/L	5.0	121015 1915	121415 1140	APS	EPA 6010B	
Lead	ND	0.20	mg/L	5.0	121015 1915	121415 1140	APS	EPA 6010B	
Mercury	ND	0.0020	mg/L	0.20	121015 1101	121015 1649	FAK	EPA 7470A	
Selenium	ND	0.20	mg/L	1.0	121015 1915	121415 1140	APS	EPA 6010B	
Silver	ND	0.20	mg/L	5.0	121015 1915	121415 1140	APS	EPA 6010B	

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Kimberley Mack

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NRG Energy - Chalk Point Gen. Sta.	Project: Chalk Point-FGD Special Yearly	Report: 15L0433
25100 Chalk Point Road	Project Number: Chalk Pt-FGD Special Yearly	Reported: 01/20/2016 14:59
Aquasco, MD 20608	Project Manager: Glenn St. Clair	

89-120115-WWTP Fines

15L0433-04 (Solid) Sampled: 12/01/2015 12:00; Type: Grab

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
Microbac Laboratories, Inc. - Baltimore									
Wet Chemistry									
% Solids	**87.46**	0.05	% by Weight		121115 1530	121315 0920	LCR	SM 2540 G-11	
Chloride	**640**	11	mg/kg dry		120815 1412	120815 1740	PPM	SW-846 9056A	R1
pH	**6.00**	0.100	pH Units		121315 0750	121315 0930	LCR	SW-846 9045D	Z10b
Sulfate as SO4	**26000**	570	mg/kg dry		120815 1412	120915 1450	PPM	SW-846 9056A	
General Chemistry									
Paint Filter Free Liquid	**NEGATIVE**		P/A		120815 1202	120815 1212	VAS	SW-846 9095B	
Mercury, Total by EPA 7000 Series Methods									
Mercury	**33**	2.8	mg/kg dry		120915 1323	120915 1853	FAK	EPA 7471A	
Metals, Total by EPA 6000/7000 Series Methods									
Aluminum	**6700**	14	mg/kg dry		121115 1748	121815 1309	APS	EPA 6010B	
Antimony	ND	11	mg/kg dry		121115 1748	121815 1309	APS	EPA 6010B	
Arsenic	ND	11	mg/kg dry		121115 1748	122215 1039	APS	EPA 6010B	
Barium	**150**	2.8	mg/kg dry		121115 1748	121815 1309	APS	EPA 6010B	
Beryllium	ND	1.1	mg/kg dry		121115 1748	121815 1309	APS	EPA 6010B	
Cadmium	**0.59**	0.56	mg/kg dry		121115 1748	121815 1309	APS	EPA 6010B	
Chromium	**37**	2.8	mg/kg dry		121115 1748	121815 1309	APS	EPA 6010B	
Cobalt	**4.9**	2.8	mg/kg dry		121115 1748	121815 1309	APS	EPA 6010B	
Copper	**12**	2.8	mg/kg dry		121115 1748	121815 1309	APS	EPA 6010B	
Iron	**18000**	11	mg/kg dry		121115 1748	121815 1309	APS	EPA 6010B	
Lead	ND	5.6	mg/kg dry		121115 1748	121815 1309	APS	EPA 6010B	
Magnesium	**3600**	28	mg/kg dry		121115 1748	121815 1309	APS	EPA 6010B	
Manganese	**780**	2.8	mg/kg dry		121115 1748	121815 1309	APS	EPA 6010B	
Nickel	**80**	5.6	mg/kg dry		121115 1748	121815 1309	APS	EPA 6010B	
Potassium	**4300**	28	mg/kg dry		121115 1748	121815 1309	APS	EPA 6010B	
Selenium	**98**	56	mg/kg dry		121115 1748	121815 1516	APS	EPA 6010B	

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Kimberley M. Mack, Project Manager

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CERTIFICATE OF ANALYSIS

NRG Energy - Chalk Point Gen. Sta.	Project: Chalk Point-FGD Special Yearly	Report: 15L0433
25100 Chalk Point Road	Project Number: Chalk Pt-FGD Special Yearly	Reported: 01/20/2016 14:59
Aquasco, MD 20608	Project Manager: Glenn St. Clair	

89-120115-WWTP Fines

15L0433-04 (Solid) Sampled: 12/01/2015 12:00; Type: Grab

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
Microbac Laboratories, Inc. - Baltimore									
Metals, Total by EPA 6000/7000 Series Methods									
Silver	ND	2.8	mg/kg dry		121115 1748	121815 1309	APS	EPA 6010B	
Sodium	ND	560	mg/kg dry		121115 1748	121815 1309	APS	EPA 6010B	
Thallium	ND	11	mg/kg dry		121115 1748	121815 1309	APS	EPA 6010B	
Vanadium	**9.2**	2.8	mg/kg dry		121115 1748	121815 1309	APS	EPA 6010B	
Zinc	**45**	2.8	mg/kg dry		121115 1748	121815 1309	APS	EPA 6010B	
TCLP Extraction by EPA 1311									
TCLP Extraction	**COMPLETED**		N/A		120815 1924	121015 1236	TRB	EPA 1311	Q25, Z10e
TCLP Metals by 6000/7000 Series Methods									
Arsenic	ND	0.20	mg/L	5.0	121015 1915	121415 1144	APS	EPA 6010B	
Barium	ND	0.50	mg/L	100	121015 1915	121415 1144	APS	EPA 6010B	
Cadmium	ND	0.20	mg/L	1.0	121015 1915	121415 1144	APS	EPA 6010B	
Chromium	ND	0.20	mg/L	5.0	121015 1915	121415 1144	APS	EPA 6010B	
Lead	ND	0.20	mg/L	5.0	121015 1915	121415 1144	APS	EPA 6010B	
Mercury	ND	0.0020	mg/L	0.20	121015 1101	121015 1658	FAK	EPA 7470A	
Selenium	ND	0.20	mg/L	1.0	121015 1915	121415 1144	APS	EPA 6010B	
Silver	ND	0.20	mg/L	5.0	121015 1915	121415 1144	APS	EPA 6010B	

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Kimberley Mack

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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: 15L0433 Reported: 01/20/2016 14:59

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	04/30/2017
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	06/30/2016
WV	West Virginia	054	09/30/2016
Microbac Laboratories, Inc. - Richmond			
VA-R	Commonwealth of Virginia (NELAC) - Richmond	460022	06/14/2016

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NRG Energy - Chalk Point Gen. Sta.	Project: Chalk Point-FGD Special Yearly	Report: 15L0433
25100 Chalk Point Road	Project Number: Chalk Pt-FGD Special Yearly	Reported: 01/20/2016 14:59
Aquasco, MD 20608	Project Manager: Glenn St. Clair	

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

Z10e	Sample tumbled 17 hours.
Z10d	pH@22.4°C
Z10c	pH@20.9°C
Z10b	pH@20.6°C
Z10a	pH@20.2°C
R1	Sample Duplicate RPD was out of acceptance limits.
Q25	TCLP extract temperature was not in 21-25°C ranged during the entire extraction period.

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Cooler Receipt Log

Cooler ID: Default Cooler **Cooler Temp:** 4.10°C **Work Order:** 15L0433

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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Work Order Number:

Chain of Custody Record

Page 1 of 1

Instructions for completing the Chain of Custody Record on back.

Client Name NRG Energy-Chalk Pt. Gen Sta	Project FGD SPECIAL-Yearly	**Turnaround Time**	**QC and EDD Type (Required)**
Address 25100 Chalk Point Road	Location CP FGD-Special Yrly	[x] Standard (7 Business Days)	[ ] Level I (NAC) [ ] EDD
City, State, Zip Aquasco MD 20608	PO #	[ ] RUSH* Needed By: _____	[ ] Level II** Format: _____
Contact Glenn St Clair	Compliance Monitoring? [x] Yes [ ] No	* *Please notify lab prior to drop off.*	[ ] Level III** Comments:
Telephone # 301-843-4172	(1)Agency/Program		[ ] Level IV**

Sampled by (PRINT) Milton Newman Sampler Signature _____ Sampler Phone # 301-843-4170 Sampler (DW)Cert# _____

Send Report via [x] e-mail (address) glenn.stclair@nrg.com [ ] Mail [ ] Telephone [x] Fax (fax #) 301-843-4475

*** Matrix Types: Air(A), Childrens Product(CP), Food(F), Paint(P), Soil/Solid (S), Oil(O), 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: Chloride	Sulfate as SO4	pH (As received, Tot-P-As, Ba, Cd, Cr, Pb, Se, Hg)	Total Metals	Paint Filter test	Sulfate Method for Coal	Comments
89-120115 - Gypsum		✓			12-1-15	1200	1	✓	✓	✓	✓	✓	✓	SM(20) 4500Cl-C(m)
89-120115 - Flyash		✓			12-1-15	1200	1	✓	✓	✓	✓	✓	✓	ASTM D516-02(m)
89-120115 - Bottom Ash		✓			12-1-15	1200	1	✓	✓	✓	✓	✓	✓	EPA 9045
89-120115 - WWTP Fines		✓			12-1-15	1200	1	✓	✓	✓	✓	✓	✓	EPA 1010A/SW846 7471
														COMAR 26.21.04.05
														EPA 9095
														ASTM D2492

15L0433

Possible Hazard Identification [ ] Hazardous [ ] Non-Hazardous [ ] Radioactive **Sample Disposition** [x] Dispose as appropriate [ ] Return [ ] Archive

Number of Containers: 4	Relinquished By (signature)	Printed Name/Affiliation	Date/Time	Received By (signature)	Printed Name/Affiliation
Cooler Number:		Milton Newman	12-1-15 / 1200		
Temp upon receipt(°C):	Relinquished By (signature)	Printed Name/Affiliation	Date/Time	Received By (signature)	Printed Name/Affiliation
Sample Received on Ice (Yes / No)			12/3/15 10:15		Ryan Stanley
Refrigerated from Client (Yes / No)	Relinquished By (signature)	Printed Name/Affiliation	Date/Time	Received for Lab By (signature)	Printed Name/Affiliation
Radiation Scan Acceptable Yes / No		Ryan Stanley	12/3/15 13:40		TW Dillinger

Page 14 of 15

501 12.11 ** Surcharge May Apply to Add'l QC Packages** WHITE - ORIGINAL LAB YELLOW - RECEIPT

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
Client: NRG Chalk Point
Form Completed By: Matt Bocian

Receipt Date / Time: 12/03/15 1340
Work Order # 15L0343

Shipper: ☑ Microbac ☐ Client ☐ UPS ☐ FedEx
Custody Tape Intact: (YES) / NO / NA
Containers Intact: (YES) / NO
Sample Received on Ice or refrigerated: (YES) / NO
Infrared (IR) Temperature: 4.1 °C
Radiation Scan: ☐ Negative or _____ mR/hr
Chain of Custody Present with shipment: (YES) / NO
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 - 1	Unpreserved 1	H2SO4 1	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 - 2	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)

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

Ziploc Bags

Describe preservation requirements not met:
All Acid preserved <2 pH *NaOH preserved >12 pH* *All others >2 and <10 (usually 4-8)*

Sample ID: _____ H_2SO_4 HNO_3 NaOH _____ mls added
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H_2SO_4 – Sulfuric Acid, HNO_3 – Nitric Acid, NaOH – Sodium Hydroxide, ASC – Ascorbic Acid, NaTHIO – Sodium Thiosulfate

Describe Anomalies: _____

Contact information / Summary of Actions:
Date / Time: _____ Contact: _____ Contact By: _____
Comments: _____