Introduced by: Councilmembers Reisinger and Clarke, Hory, Purel Juth Gress, you Date: July 11, 2017 Cohen, Prepared by: Department of Legislative Reference HOUSING AND URBAN AFFAIRS Referred to: Committee Stoke S

Dorsey

Also referred for recommendation and report to municipal agencies listed on reverse.

CITY COUNCIL 17 - 0034 P.

A RESOLUTION ENTITLED

A COUNCIL RESOLUTION concerning

Request for State Action - Set a Strong Nitrogen Oxides Limit for the Wheelabrator **Baltimore Incinerator** 

FOR the purpose of urging the Maryland Department of the Environment to set a nitrogen oxides pollution limit for the Wheelabrator Baltimore incinerator that is no higher than the 150 ppm standard on a 24-hour average that has been adopted by Connecticut and New Jersey and proposed in Massachusetts, or, if at all possible, significantly lower than 150 ppm in order to provide maximum air quality benefits to residents of Baltimore.

\*\*The introduction of an Ordinance or Resolution by Councilmembers at the request of any person, firm or organization is a courtesy extended by the Councilmembers and not an indication of their position.

#### Agencies

Other:	Отры:
Other:	Other:
Officer:	Офист:
Wage Commission	
noiszimmoO gninnal¶	Commission on Sustainability
Parking Authority Board	Comm. for Historical and Architectural Preservation
Labor Commissioner	- slandA gainoX bas laqininuM to braca
Fire & Police Employees' Retirement System	Board of Ethics
ьтвоЯ lontino Stanamenting	Board of Estimates
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Other:	Other:
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Other:	Other:
Police Department	Other:
Office of the Mayor	Department of Planning
Mayor's Office of Information Technology	Department of Human Resources
Mayor's Office of Human Services	Department of Housing and Community Development
Mayor's Office of Employment Development	Department of General Services
Health Department	Department of Finance
Fire Department	Department of Audits
Department of Transportation	Comptroller's Office
Department of Recreation and Parks	City Solicitor
NUMBER (BOAL TO TRANSPIRED OF	
Department of Real Estate	Baltimore Development Corporation

#### CITY OF BALTIMORE COUNCIL BILL 17-0034R (Resolution)

Introduced by: Councilmembers Reisinger, Clarke, Henry, Pinkett, Scott, Costello, President Young, Councilmembers Cohen, Middleton, Stokes, Dorsey, Burnett, Sneed, Bullock Introduced and read first time: July 17, 2017

Assigned to: Housing and Urban Affairs Committee

Committee Report: Favorable with amendments

Adopted: October 16, 2017

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#### A COUNCIL RESOLUTION CONCERNING

Request for State Action - Set a Strong Nitrogen Oxides Limit for the Wheelabrator Baltimore Incinerator

FOR the purpose of urging the Maryland Department of the Environment to set a nitrogen oxides pollution limit for the Wheelabrator Baltimore incinerator that is no higher than the 150 ppm standard on a 24-hour average that has been adopted by Connecticut and New Jersey and proposed in Massachusetts, or, if at all possible, significantly lower than 150 ppm in order to provide maximum air quality benefits to residents of Baltimore.

Recitals

Emissions of nitrogen oxides (NOx) contribute to the formation of three pollutants in the ambient (outdoor) air: ground-level ozone, nitrogen dioxide, and fine particulate matter. Each of these pollutants can have adverse effects on human health, including worsening symptoms of asthma in people who already have the condition. Baltimore City has substantially higher rates of asthma hospitalizations and emergency room visits due to asthma than the rest of the State of Maryland.

The Baltimore area, which includes Baltimore City and five additional counties, is designated as a nonattainment area for ground-level ozone by the U.S. EPA, meaning that the area does not meet federal air quality standards for ozone. NOx is the primary pollutant that contributes to the formation of ground-level ozone.

Many factors contribute to Baltimore's ozone problem, including pollution from power plants located in other states. Locally, the municipal solid waste incinerator operated by Wheelebrator Baltimore, L.P. and located in South Baltimore is a major source of NOx emissions.

In 2015, the Baltimore incinerator emitted 1,123 tons of NOx, making it the sixth largest emitter of NOx in the State of Maryland that year. The Baltimore incinerator also emitted more NOx per unit of energy generated in 2015 than any other large power plant in Maryland.

EXPLANATION: <u>Underlining</u> indicates matter added by amendment. Strike out indicates matter stricken by amendment.

The Maryland Department of the Environment is in the process of developing regulations that will establish new NOx emission limits for Maryland's two municipal solid waste incinerators, including the Wheelabrator incinerator in Baltimore. These regulations are part of an air quality plan that Maryland must submit to the EPA under the federal Clean Air Act to show that the state is making progress toward attaining federal ozone standards.

The new NOx limits established under this rulemaking must, at minimum, meet a standard called Reasonably Available Control Technology ("RACT"). The RACT standard is defined as "the lowest emissions limit that a particular source is capable of meeting by the application of control technology that is reasonably available considering technological and economic feasibility."

MDE may not set NOx emission limits that are weaker and less health-protective than the RACT standard. However, MDE has the authority to set NOx emission limits that are stronger and more protective of health than the RACT standard.

Short-term emission limits for incinerators are expressed in parts per million by volume dry at 7% oxygen (hereinafter "ppm"). The limit is frequently assessed based on a 24-hour average. A NOx limit of 150 ppm on a 24-hour basis has been adopted as the RACT standard for municipal solid waste incinerators by the states of Connecticut and New Jersey and has been proposed for adoption in Massachusetts. New Jersey allows facility operators to seek an exception in the form of an alternate limit.

Around 2009, the operator of Maryland's second municipal solid waste incinerator, the Montgomery County Resource Recovery Facility ("MCRRF"), voluntarily installed new NOx pollution controls on that incinerator that reduced its NOx emissions by about half. From 2013 through 2015, MCRRF's annual average NOx emissions were about 85 to 89 ppm on a 24-hour basis.

The Wheelabrator Baltimore's annual average NOx emissions from 2013 through 2015 were 162 to 169 ppm on a 24-hour basis. Its current NOx emissions limit is 205 ppm. Wheelabrator Baltimore, L.P. has proposed that Maryland set a new NOx emissions limit of 170 ppm for the Baltimore incinerator. According to the most recent calculations by the Maryland Department of the Environment, this would reduce annual NOx emissions from the Baltimore incinerator by 60 tons per year.

The Council requests that the Maryland Department of the Environment use its legal authority to go beyond the RACT standard in order to set a nitrogen oxides limit of 45 ppm on a 24-hour basis, which is the limit that would likely be set for a new incinerator.

The Baltimore incinerator receives financial benefits because it is treated as a Tier 1 source of renewable energy under Maryland's Renewable Portfolio Standard. Under this program, Marylanders are supposed to reap benefits from renewable energy resources that include long-term decreased emissions and a healthier environment.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF BALTIMORE, That the Council urges the Maryland Department of the Environment to set a nitrogen oxides pollution limit for the Wheelabrator Baltimore incinerator that is no higher than the 150 ppm standard on a 24-hour average that has been adopted by Connecticut and New Jersey and proposed in

1 2	Massachusetts, or, if at all possible, significantly lower than 150 ppm in order to provide maximum air quality benefits to residents of Baltimore.
3	AND BE IT FURTHER RESOLVED, That a copy of this Resolution be sent to the Governor, the
4	Secretary of the Maryland Department of the Environment, the Director of the Air and Radiation
5	Management Administration, the Division Chief of the Air Quality Regulations Division, the
6	Mayor, and the Mayor's Legislative Liaison to the City Council.



APPROVED FOR THE STYLE, AND TEXTUAL THE DEP'T LEGISLATIVE REFERENCE

### AMENDMENTS TO COUNCIL BILL 17-0034R (1st Reader Copy)

By: The Housing and Urban Affairs Committee {To be offered on the Council Floor}

#### Amendment No. 1

On page 2, after line 27, insert:

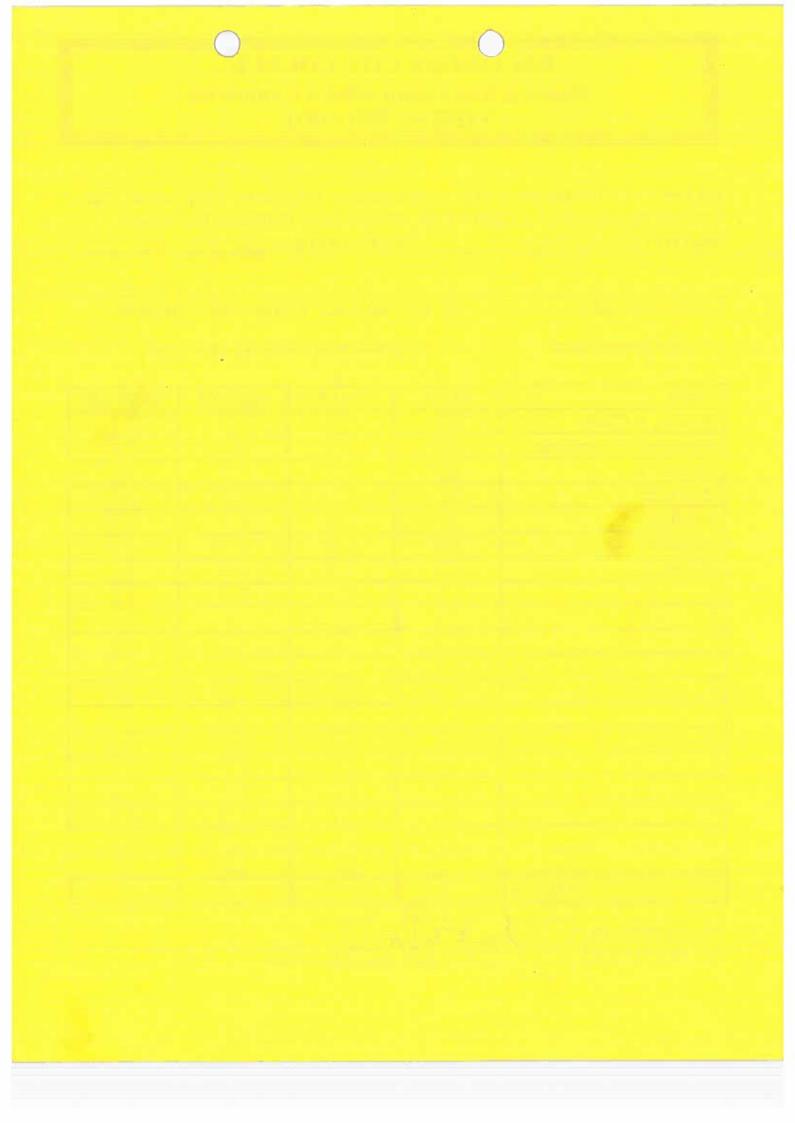
"The Council requests that the Maryland Department of the Environment use its legal authority to go beyond the RACT standard in order to set a nitrogen oxides limit of 45 ppm on a 24-hour basis, which is the limit that would likely be set for a new incinerator.".





# BALTIMORE CITY COUNCIL Housing And Urban Affairs Committee VOTING RECORD

		DATE:		
BILL#CC: 17-0034R BILL TITLE: Resolution - Request for State Action - Set				
a Strong Nitrogen Oxides Li				nerator
MOTION BY: HINLY	SE	CONDED B	Y: DUTSEA	
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UNFAVORABLE	□ wit	HOUT REC	OMMENDAT	ION
NAME	YEAS	NAYS	ABSENT	ABSTAIN
Bullock, J. Chair	X			
Schleifer, I. Vice Chair				
Burnett, K.				
Henry, B.	$\square$			
Sneed ,S.				
Cohen, Z				
Dorsey, R.				
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TOTALS				
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COMMITTEE STAFF: Ric	hard G. Krui	mmerich, Init	tials: /-\	_



## The Baltimore City Department of HOUSING & COMMUNITY DEVELOPMENT

#### **MEMORANDUM**

To: The Honorable President and Members of the Baltimore City Council

c/o Natawna Austin, Executive Secretary

From: Michael Braverman, Housing Commissioner

Chael Braverman, Housing Commissioner

Date: September 21, 2017

Re: City Council Bill 17-0034R - for Request for State Action - Set a Strong Nitrogen Oxides

Limit for the Wheelabrator Baltimore Incinerator

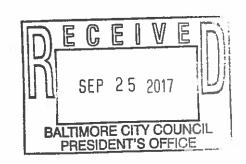
The Department of Housing and Community Development (HCD) has reviewed City Council Bill 17-0034R, for the purpose of urging the Maryland Department of the Environment to set a nitrogen oxides pollution limit for the Wheelabrator Baltimore incinerator that is no higher than the 150 ppm standard on a 24-hour average that has been adopted by Connecticut and New Jersey and proposed in Massachusetts, or, if at all possible, significantly lower than 150 ppm in order to provide maximum air quality benefits to residents of Baltimore.

If enacted, the City would request that the Maryland Department of the Environment set pollution limits on nitrogen oxides from the Baltimore incinerator to assist with improving air quality.

The Department of Housing and Community Development supports the passage of City Council Bill 17-0034R.

MB:sd

cc: Ms. Karen Stokes, Mayor's Office of Government Relations Mr. Kyron Banks, Mayor's Office of Government Relations







IF	Name & Title	Dr. Leana Wen	Health Department	LATA DEPARTA
R O M	Agency Name & Address	Health Department 1001 E. Fayette Street Baltimore, Maryland 21201	МЕМО	
	Subject	17-0034R – Request for State Action – Set a Strong Nitrogen Oxides Limit for the Wheelabrator Baltimore Incinerator		WE MA

To: President and Members

of the City Council c/o 409 City Hall Sept. 21, 2017

The Baltimore City Health Department (BCHD) is pleased to have the opportunity to review 17-0034R - Request for State Action - Set a Strong Nitrogen Oxides Limit for the Wheelabrator Baltimore Incinerator. The purpose of this resolution is to call upon the Maryland Department of the Environment (MDE) to set stronger limits for the emissions of nitrogen oxide (NO2) for the Wheelabrator.

The resolution will not impact BCHD operations, as BCHD does not enforce the standards being recommended for reduction. The positive impact of MDE reducing allowable NO2 emissions for those living in the immediate area is difficult to measure. However, the Environmental Protection Agency's (EPA) recent Integrated Science Assessment (ISA) for Oxides of Nitrogen – Health Criteria (Final Report, 2016) serves to strengthen the cumulative body of evidence that indicates that short-term exposure to NO2 can cause respiratory effects. In particular, these effects are related to asthma exacerbation, a disease that impacts Baltimore's children disproportionately.

Baltimore City suffers from high rates of asthma. The state Department of Health and Mental Hygiene reports 12.4% of Baltimore City adults have asthma, four points higher than the statewide average. Moreover, 1 in 5 children under the age of 18 in Baltimore City suffer from asthma, double the national average. These high rates lead to large losses of productivity through missed school and work days. Reduced air pollution realized through a Zero Waste plan could help the city lower its asthma rates.

BCHD appreciates the opportunity to review issues connected to NO2 emissions at this informational hearings, and to provide information on the potential health benefits of lower emissions.

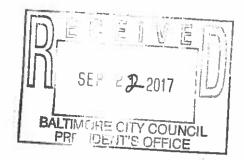
Leana S. Wen, M.D., M.Sc.

Commissioner of Health

**Baltimore City** 

Lenfor

comments





#### CITY OF BALTIMORE

CATHERINE E. PUGH, Mayor



#### DEPARTMENT OF LAW

101 City Hall Baltimore, Maryland 21202

July 27, 2017

The Honorable President and Members of the Baltimore City Council Attn: Executive Secretary Room 409, City Hall 100 N. Holliday Street Baltimore, Maryland 21202

Re: City Council Bill 17-0034R - Request for State Action - Set a Strong Nitrogen Oxides Limit for the Wheelabrator Baltimore Incinerator

Dear President and City Council Members:

The Law Department has reviewed City Council Bill 17-0034R for form and legal sufficiency. This resolution calls on the Maryland Department of the Environment to set certain limits for Nitrogen Oxides at the Baltimore Incinerator.

A resolution is an appropriate way for the City Council of Baltimore to request action from a state agency. See, e.g., Inlet Assocs. v. Assateague House Condominium, 313 Md. 413, 428 (1988). Therefore, the Law Department approves this Resolution for form and legal sufficiency.

Very truly yours,

Hilary Ruley Chief Solicitor

cc: David E. Ralph, Acting City Solicitor

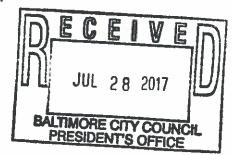
Karen Stokes, Director, Mayor's Office of Government Relations

Kyron Banks, Mayor's Legislative Liaison

Elena DiPietro, Chief Solicitor, General Counsel Division

Victor Tervala, Chief Solicitor

Jennifer Landis, Assistant Solicitor







#### CITY OF BALTIMORE

CATHERINE E. PUGH, Mayor



#### OFFICE OF COUNCIL SERVICES

LARRY E. GREENE, Director 415 City Hall, 100 N. Holliday Street Baltimore, Maryland 21202 410-396-7215 / Fax: 410 545-7596 email: larry.greene@baltimorecity.gov

#### **HEARING NOTES**

City Council Resolution: CC-17-0034R

	Incinerator	Limit for the Wheelabrator Baltimore
Committee: Housing	ng and Urban Affairs	
	ilmember John Bullock	
Hearing Date:	September 28, 2017	
Time (Beginning):		
Time (Ending):	4:20 PM	
Location:	Clarence "Du" Burns Chamber	
Total Attendance:		
Committee Member	s in Attendance:	
John Bullock Zeke (	Cohen	
Isaac "Yitzy" Schleife	er Ryan Dorsey	
Kristerfer Burnett	The figure of the same of the	
Bill Henry		
Sharon Sneed		
Bill Synopsis in the t Attendance sheet in	file?the file?	
Hearing televised or Certification of adve Evidence of notifica Final vote taken at t Motioned by: Seconded by:	***************************************	yes no no n/a yes no n/a yes no n/a yes no n/a

#### Major Issues Discussed

- 1. Chair Bullock continued the 2:00 PM Hearing
- 2. Environmental activists believe that the Wheelabrator Incinerator is harmful to public health of Baltimore, and want the State of Maryland to enforce much stricter standards on emissions.
- 3. Representatives from Wheelabrator testified that the Company is constantly improving its operation and is voluntarily adopting stricter emission standards.
- 4. The Resolution was amended and adopted on a 7-0 vote

	Further Study		a fragita -
Was further study requested?		☐ Yes ⊠ No	
If yes, describe.			and the second
	Committee Vote:		5 5 1
J. Bullock:		Yea	
I. Schleifer:			* **
K. Burnett:			25 38 5
B. Henry:			
S. Sneed:			
Z. Cohen:			N. C. Common Co.
R. Dorsey:			
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*		******	197.19

Date: 9-29-17

Richard G. Krummerich, Committee Staff

cc: Bill File

OCS Chrono File



# CITY COUNCIL HEARING AT CITY OF BALTI

Committee: \* Housing and Urban Affairs

Date: September 28, 2017 Time: 2:15 PM J
Subject: \* - Resolution – Request for State Action – Set a Strong Nitrogen Ox Incinerator

# PLEASE PRINT

	FIRST NAME	LAST NAME	ST.#	ADDRESS/ORGANIZATION N
	John	Doe	100	North Charles Street
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1	Rodette I	Jones		Unika Workers
1-	Taylor 36	Smith-Hams		Cherapeake Climate A
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#### CITY OF BALTIMORE

CATHI RINE E PUGH, Mayor



#### OFFICE OF COUNCIL SERVICES

LARRY E. GREENE, Director 415 City Hall, 100 N. Holliday Street Baltimore, Maryland 21202 410-396-7215 / Fax: 410-545-7596 email: larry.greene@baltimorecity.gov

#### **BILL SYNOPSIS**

Committee: Housing and Urban Affairs

City Council Resolution CC 17-0034R

### Request for State Action – Set a Strong Nitrogen Oxides Limit for the Wheelabrator Baltimore Incinerator

Sponsor: Councilmember Reisinger, et al

Introduced: July 17, 2017

#### Purpose:

For the purpose of urging the Maryland Department of the Environment to set a nitrogen oxides pollution limit for the Wheelabrator Baltimore incinerator that is no higher than the 150 ppm standard on a 24 hour average that has been adopted by Connecticut and New Jersey and proposed in Massachusetts, or, if at all possible, significantly lower than 150 ppm in order to provide maximum air quality benefits to residents of Baltimore.

Effective: Upon enactment

**Hearing Date/Time/Location:** September 28, 2017 at 2:15 PM in the Council Chambers

#### **Agency Reports**

Department of Law
Health Department
Comments
Department of Housing and Community Development
Department of Public Works
Favorable
Favorable

#### Analysis

#### **Current Law**

None

#### Background

The Wheelabrator Incinerator is located at 1801 Annapolis Road in the Westport neighborhood in the Southern Portion of Baltimore City. It was constructed in 1985 and has been operated by several owners. It has a primary function of converting trash to energy.

The facility produces nitrogen oxides (NOx) which are considered by many authorities to be a major health hazard.

State Regulations limit NOx emissions to 205 Parts per million (ppm). In inspections between 2013 and 2015 the facility showed emissions 162-169 ppm. Recent literature suggests this is an unhealthy level.

CC 17-0034R calls on The Maryland Department of the Environment to set a limit on NOx emissions at no more than 150 ppm.

#### **Additional Information**

Fiscal Note: Not Available

Information Source(s): Bill File

Analysis by:

Richard G. Krummerich R

Direct Inquiries to: 410-396-1266

Analysis Date:

9-26-17

#### CITY OF BALTIMORE COUNCIL BILL 17-0034R (Resolution)

Introduced by: Councilmembers Reisinger, Clarke, Henry, Pinkett, Scott, Costello, President Young, Councilmembers Cohen, Middleton, Stokes, Dorsey, Burnett, Sneed, Bullock Introduced and read first time: July 17, 2017

Assigned to: Housing and Urban Affairs Committee

REFERRED TO THE FOLLOWING AGENCIES: City Solicitor, Department of Housing and Community Development, Department of Public Works, Health Department

	A RESOLUTION ENTITLED
1	A COUNCIL RESOLUTION concerning
2 3	Request for State Action - Set a Strong Nitrogen Oxides Limit for the Wheelabrator Baltimore Incinerator
4 5 6 7 8	FOR the purpose of urging the Maryland Department of the Environment to set a nitrogen oxides pollution limit for the Wheelabrator Baltimore incinerator that is no higher than the 150 ppm standard on a 24-hour average that has been adopted by Connecticut and New Jersey and proposed in Massachusetts, or, if at all possible, significantly lower than 150 ppm in order to provide maximum air quality benefits to residents of Baltimore.
9	Recitals
10 11 12 13 14 15	Emissions of nitrogen oxides (NOx) contribute to the formation of three pollutants in the ambient (outdoor) air: ground-level ozone, nitrogen dioxide, and fine particulate matter. Each of these pollutants can have adverse effects on human health, including worsening symptoms of asthma in people who already have the condition. Baltimore City has substantially higher rates of asthma hospitalizations and emergency room visits due to asthma than the rest of the State of Maryland.

The Baltimore area, which includes Baltimore City and five additional counties, is designated as a nonattainment area for ground-level ozone by the U.S. EPA, meaning that the area does not meet federal air quality standards for ozone. NOx is the primary pollutant that contributes to the formation of ground-level ozone.

Many factors contribute to Baltimore's ozone problem, including pollution from power plants located in other states. Locally, the municipal solid waste incinerator operated by Wheelebrator Baltimore, L.P. and located in South Baltimore is a major source of NOx emissions.

In 2015, the Baltimore incinerator emitted 1,123 tons of NOx, making it the sixth largest emitter of NOx in the State of Maryland that year. The Baltimore incinerator also emitted more NOx per unit of energy generated in 2015 than any other large power plant in Maryland.

The Maryland Department of the Environment is in the process of developing regulations that will establish new NOx emission limits for Maryland's two municipal solid waste incinerators, including the Wheelabrator incinerator in Baltimore. These regulations are part of an air quality

> EXPLANATION: Underlining indicates matter added by amendment. Strike out indicates matter deleted by amendment.

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plan that Maryland must submit to the EPA under the federal Clean Air Act to show that the state 1 is making progress toward attaining federal ozone standards. 2 The new NOx limits established under this rulemaking must, at minimum, meet a standard 3 called Reasonably Available Control Technology ("RACT"). The RACT standard is defined as 4 "the lowest emissions limit that a particular source is capable of meeting by the application of 5 control technology that is reasonably available considering technological and economic 6 7 feasibility." MDE may not set NOx emission limits that are weaker and less health-protective than the 8 RACT standard. However, MDE has the authority to set NOx emission limits that are stronger 9 10 and more protective of health than the RACT standard. 11 Short-term emission limits for incinerators are expressed in parts per million by volume dry at 7% oxygen (hereinafter "ppm"). The limit is frequently assessed based on a 24-hour average. 12 A NOx limit of 150 ppm on a 24-hour basis has been adopted as the RACT standard for 13 municipal solid waste incinerators by the states of Connecticut and New Jersey and has been 14 proposed for adoption in Massachusetts. New Jersey allows facility operators to seek an 15 16 exception in the form of an alternate limit. 17 Around 2009, the operator of Maryland's second municipal solid waste incinerator, the Montgomery County Resource Recovery Facility ("MCRRF"), voluntarily installed new NOx 18 pollution controls on that incinerator that reduced its NOx emissions by about half. From 2013 19 through 2015, MCRRF's annual average NOx emissions were about 85 to 89 ppm on a 24-hour 20 basis. 21 The Wheelabrator Baltimore's annual average NOx emissions from 2013 through 2015 were 22 23 162 to 169 ppm on a 24-hour basis. Its current NOx emissions limit is 205 ppm. Wheelabrator Baltimore, L.P. has proposed that Maryland set a new NOx emissions limit of 170 ppm for the 24 Baltimore incinerator. According to the most recent calculations by the Maryland Department of 25 the Environment, this would reduce annual NOx emissions from the Baltimore incinerator by 60 26 tons per year. 27 The Baltimore incinerator receives financial benefits because it is treated as a Tier 1 source of 28 29 renewable energy under Maryland's Renewable Portfolio Standard. Under this program, Marylanders are supposed to reap benefits from renewable energy resources that include 30 long-term decreased emissions and a healthier environment. 31 NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF BALTIMORE, That the 32 Council urges the Maryland Department of the Environment to set a nitrogen oxides pollution 33 limit for the Wheelabrator Baltimore incinerator that is no higher than the 150 ppm standard on a 34 24-hour average that has been adopted by Connecticut and New Jersey and proposed in 35 Massachusetts, or, if at all possible, significantly lower than 150 ppm in order to provide 36 maximum air quality benefits to residents of Baltimore. 37 AND BE IT FURTHER RESOLVED, That a copy of this Resolution be sent to the Governor, the

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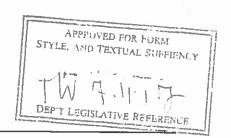
Secretary of the Maryland Department of the Environment, the Director of the Air and Radiation

Management Administration, the Division Chief of the Air Quality Regulations Division, the

Mayor, and the Mayor's Legislative Liaison to the City Council.

#### INTRODUCTORY\*

## CITY OF BALTIMORE COUNCIL BILL \_\_\_\_\_R (Resolution)



Introduced by: Councilmembers Reisinger and Clarke

#### A RESOLUTION ENTITLED

A COUNCIL RESOLUTION concerning

Request for State Action – Set a Strong Nitrogen Oxides Limit for the Wheelabrator
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\* WARNING: THIS IS AN UNOFFICIAL, INTRODUCTORY COPY OF THE BILL.
THE OFFICIAL COPY CONSIDERED BY THE CITY COUNCIL IS THE FIRST READER COPY.

The new NOx limits established under this rulemaking must, at minimum, meet a standard called Reasonably Available Control Technology ("RACT"). The RACT standard is defined as "the lowest emissions limit that a particular source is capable of meeting by the application of control technology that is reasonably available considering technological and economic feasibility."

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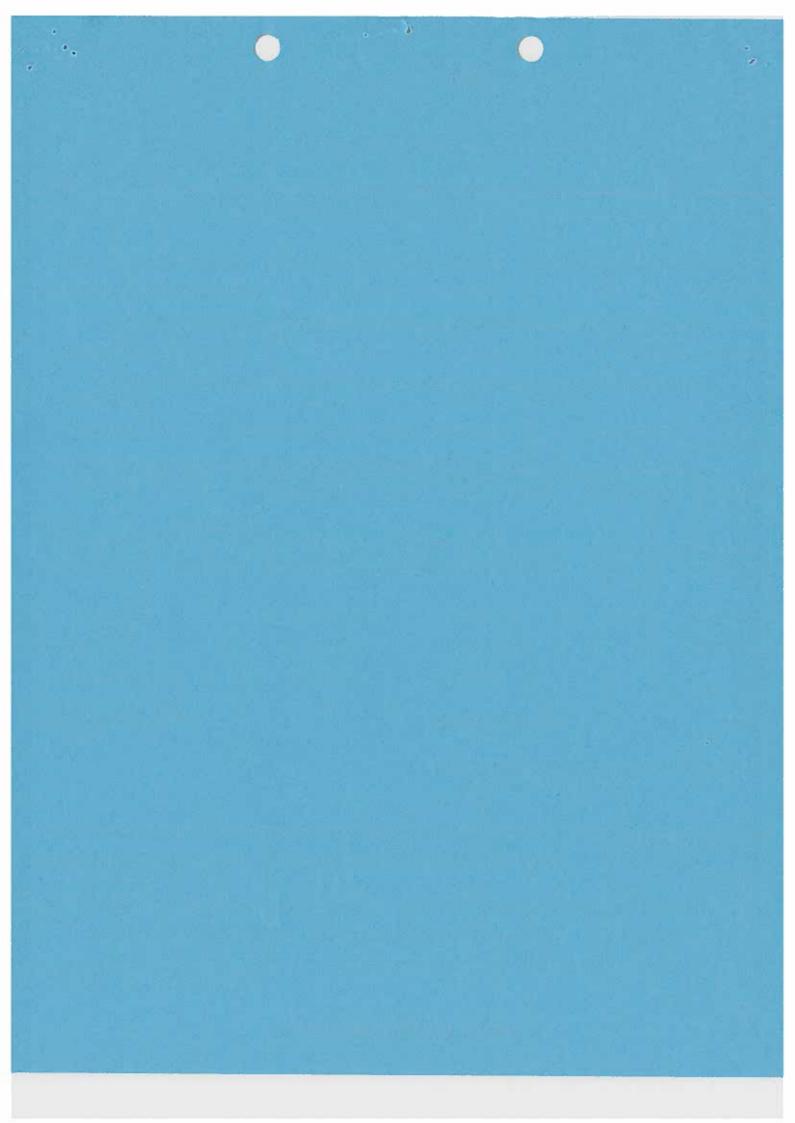
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AND BE IT FURTHER RESOLVED, That a copy of this Resolution be sent to the Governor, the Secretary of the Maryland Department of the Environment, the Director of the Air and Radiation Management Administration, the Division Chief of the Air Quality Regulations Division, the Mayor, and the Mayor's Legislative Liaison to the City Council.



#### ACTION BY THE CITY COUNCIL

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favorable), this City Council bill was (was not) ordered printed	COMP BEADING: The Council's action being favorable (unit
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Chair	
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#### CITY OF BALTIMORE COUNCIL BILL 17-0034R (Resolution)

Introduced by: Councilmembers Reisinger, Clarke, Henry, Pinkett, Scott, Costello, President Young, Councilmembers Cohen, Middleton, Stokes, Dorsey, Burnett, Sneed, Bullock Introduced and read first time: July 17, 2017

Assigned to: Housing and Urban Affairs Committee

Committee Report: Favorable with amendments

Adopted: October 16, 2017

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#### A COUNCIL RESOLUTION CONCERNING

#### Request for State Action – Set a Strong Nitrogen Oxides Limit for the Wheelabrator Baltimore Incinerator

FOR the purpose of urging the Maryland Department of the Environment to set a nitrogen oxides pollution limit for the Wheelabrator Baltimore incinerator that is no higher than the 150 ppm standard on a 24-hour average that has been adopted by Connecticut and New Jersey and proposed in Massachusetts, or, if at all possible, significantly lower than 150 ppm in order to provide maximum air quality benefits to residents of Baltimore.

Recitals

Emissions of nitrogen oxides (NOx) contribute to the formation of three pollutants in the ambient (outdoor) air: ground-level ozone, nitrogen dioxide, and fine particulate matter. Each of these pollutants can have adverse effects on human health, including worsening symptoms of asthma in people who already have the condition. Baltimore City has substantially higher rates of asthma hospitalizations and emergency room visits due to asthma than the rest of the State of Maryland.

The Baltimore area, which includes Baltimore City and five additional counties, is designated as a nonattainment area for ground-level ozone by the U.S. EPA, meaning that the area does not meet federal air quality standards for ozone. NOx is the primary pollutant that contributes to the formation of ground-level ozone.

Many factors contribute to Baltimore's ozone problem, including pollution from power plants located in other states. Locally, the municipal solid waste incinerator operated by Wheelebrator Baltimore, L.P. and located in South Baltimore is a major source of NOx emissions.

In 2015, the Baltimore incinerator emitted 1,123 tons of NOx, making it the sixth largest emitter of NOx in the State of Maryland that year. The Baltimore incinerator also emitted more NOx per unit of energy generated in 2015 than any other large power plant in Maryland.

EXPLANATION: <u>Underlining</u> indicates matter added by amendment, Strike out indicates matter stricken by amendment.

The Maryland Department of the Environment is in the process of developing regulations that will establish new NOx emission limits for Maryland's two municipal solid waste incinerators, including the Wheelabrator incinerator in Baltimore. These regulations are part of an air quality plan that Maryland must submit to the EPA under the federal Clean Air Act to show that the state is making progress toward attaining federal ozone standards.

The new NOx limits established under this rulemaking must, at minimum, meet a standard called Reasonably Available Control Technology ("RACT"). The RACT standard is defined as "the lowest emissions limit that a particular source is capable of meeting by the application of control technology that is reasonably available considering technological and economic feasibility."

MDE may not set NOx emission limits that are weaker and less health-protective than the RACT standard. However, MDE has the authority to set NOx emission limits that are stronger and more protective of health than the RACT standard.

Short-term emission limits for incinerators are expressed in parts per million by volume dry at 7% oxygen (hereinafter "ppm"). The limit is frequently assessed based on a 24-hour average. A NOx limit of 150 ppm on a 24-hour basis has been adopted as the RACT standard for municipal solid waste incinerators by the states of Connecticut and New Jersey and has been proposed for adoption in Massachusetts. New Jersey allows facility operators to seek an exception in the form of an alternate limit.

Around 2009, the operator of Maryland's second municipal solid waste incinerator, the Montgomery County Resource Recovery Facility ("MCRRF"), voluntarily installed new NOx pollution controls on that incinerator that reduced its NOx emissions by about half. From 2013 through 2015, MCRRF's annual average NOx emissions were about 85 to 89 ppm on a 24-hour basis.

The Wheelabrator Baltimore's annual average NOx emissions from 2013 through 2015 were 162 to 169 ppm on a 24-hour basis. Its current NOx emissions limit is 205 ppm. Wheelabrator Baltimore, L.P. has proposed that Maryland set a new NOx emissions limit of 170 ppm for the Baltimore incinerator. According to the most recent calculations by the Maryland Department of the Environment, this would reduce annual NOx emissions from the Baltimore incinerator by 60 tons per year.

The Council requests that the Maryland Department of the Environment use its legal authority to go beyond the RACT standard in order to set a nitrogen oxides limit of 45 ppm on a 24-hour basis, which is the limit that would likely be set for a new incinerator.

The Baltimore incinerator receives financial benefits because it is treated as a Tier 1 source of renewable energy under Maryland's Renewable Portfolio Standard. Under this program, Marylanders are supposed to reap benefits from renewable energy resources that include long-term decreased emissions and a healthier environment.

Now, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF BALTIMORE, That the Council urges the Maryland Department of the Environment to set a nitrogen oxides pollution limit for the Wheelabrator Baltimore incinerator that is no higher than the 150 ppm standard on a 24-hour average that has been adopted by Connecticut and New Jersey and proposed in

1 2	Massachusetts, or, if at all possible, significantly lower than 150 ppm in order to provide maximum air quality benefits to residents of Baltimore.
3 4 5 6	AND BE IT FURTHER RESOLVED, That a copy of this Resolution be sent to the Governor, the Secretary of the Maryland Department of the Environment, the Director of the Air and Radiation Management Administration, the Division Chief of the Air Quality Regulations Division, the Mayor, and the Mayor's Legislative Liaison to the City Council.



### CITY OF BALTIMORE COUNCIL BILL 17-0034R (Resolution)

Introduced by: Councilmembers Reisinger, Clarke, Henry, Pinkett, Scott, Costello, President Young, Councilmembers Cohen, Middleton, Stokes, Dorsey, Burnett, Sneed, Bullock Introduced and read first time: July 17, 2017

Assigned to: Housing and Urban Affairs Committee

REFERRED TO THE FOLLOWING AGENCIES: City Solicitor, Department of Housing and Community Development, Department of Public Works, Health Department

### A RESOLUTION ENTITLED

A COUNCIL RESOLUTION concerning	
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Request for State Action – Set a Strong Nitrogen Oxides Limit for the Wheelabrator Baltimore Incinerator

FOR the purpose of urging the Maryland Department of the Environment to set a nitrogen oxides pollution limit for the Wheelabrator Baltimore incinerator that is no higher than the 150 ppm standard on a 24-hour average that has been adopted by Connecticut and New Jersey and proposed in Massachusetts, or, if at all possible, significantly lower than 150 ppm in order to provide maximum air quality benefits to residents of Baltimore.

Recitals

Emissions of nitrogen oxides (NOx) contribute to the formation of three pollutants in the ambient (outdoor) air: ground-level ozone, nitrogen dioxide, and fine particulate matter. Each of these pollutants can have adverse effects on human health, including worsening symptoms of asthma in people who already have the condition. Baltimore City has substantially higher rates of asthma hospitalizations and emergency room visits due to asthma than the rest of the State of Maryland.

The Baltimore area, which includes Baltimore City and five additional counties, is designated as a nonattainment area for ground-level ozone by the U.S. EPA, meaning that the area does not meet federal air quality standards for ozone. NOx is the primary pollutant that contributes to the formation of ground-level ozone.

Many factors contribute to Baltimore's ozone problem, including pollution from power plants located in other states. Locally, the municipal solid waste incinerator operated by Wheelebrator Baltimore, L.P. and located in South Baltimore is a major source of NOx emissions.

In 2015, the Baltimore incinerator emitted 1,123 tons of NOx, making it the sixth largest emitter of NOx in the State of Maryland that year. The Baltimore incinerator also emitted more NOx per unit of energy generated in 2015 than any other large power plant in Maryland.

The Maryland Department of the Environment is in the process of developing regulations that will establish new NOx emission limits for Maryland's two municipal solid waste incinerators, including the Wheelabrator incinerator in Baltimore. These regulations are part of an air quality

EXPLANATION: <u>Underlining</u> indicates matter added by amendment.

Strike out indicates matter deleted by amendment.

### Council Bill 17-0034R

1 2	plan that Maryland must submit to the EPA under the federal Clean Air Act to show that the state is making progress toward attaining federal ozone standards.
	and the standard

The new NOx limits established under this rulemaking must, at minimum, meet a standard called Reasonably Available Control Technology ("RACT"). The RACT standard is defined as "the lowest emissions limit that a particular source is capable of meeting by the application of control technology that is reasonably available considering technological and economic feasibility."

MDE may not set NOx emission limits that are weaker and less health-protective than the RACT standard. However, MDE has the authority to set NOx emission limits that are stronger and more protective of health than the RACT standard.

Short-term emission limits for incinerators are expressed in parts per million by volume dry at 7% oxygen (hereinafter "ppm"). The limit is frequently assessed based on a 24-hour average. A NOx limit of 150 ppm on a 24-hour basis has been adopted as the RACT standard for municipal solid waste incinerators by the states of Connecticut and New Jersey and has been proposed for adoption in Massachusetts. New Jersey allows facility operators to seek an exception in the form of an alternate limit.

Around 2009, the operator of Maryland's second municipal solid waste incinerator, the Montgomery County Resource Recovery Facility ("MCRRF"), voluntarily installed new NOx pollution controls on that incinerator that reduced its NOx emissions by about half. From 2013 through 2015, MCRRF's annual average NOx emissions were about 85 to 89 ppm on a 24-hour basis.

The Wheelabrator Baltimore's annual average NOx emissions from 2013 through 2015 were 162 to 169 ppm on a 24-hour basis. Its current NOx emissions limit is 205 ppm. Wheelabrator Baltimore, L.P. has proposed that Maryland set a new NOx emissions limit of 170 ppm for the Baltimore incinerator. According to the most recent calculations by the Maryland Department of the Environment, this would reduce annual NOx emissions from the Baltimore incinerator by 60 tons per year.

The Baltimore incinerator receives financial benefits because it is treated as a Tier 1 source of renewable energy under Maryland's Renewable Portfolio Standard. Under this program, Marylanders are supposed to reap benefits from renewable energy resources that include long-term decreased emissions and a healthier environment.

Now, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF BALTIMORE, That the Council urges the Maryland Department of the Environment to set a nitrogen oxides pollution limit for the Wheelabrator Baltimore incinerator that is no higher than the 150 ppm standard on a 24-hour average that has been adopted by Connecticut and New Jersey and proposed in Massachusetts, or, if at all possible, significantly lower than 150 ppm in order to provide maximum air quality benefits to residents of Baltimore.

AND BE IT FURTHER RESOLVED, That a copy of this Resolution be sent to the Governor, the Secretary of the Maryland Department of the Environment, the Director of the Air and Radiation Management Administration, the Division Chief of the Air Quality Regulations Division, the Mayor, and the Mayor's Legislative Liaison to the City Council.

### The Baltimore City Department of HOUSING & COMMUNITY EVELOPMEN

### MEMORANDUM

To: The Honorable President and Members of the Baltimore City Council

c/o Natawna Austin, Executive Secretary

From: Michael Braverman, Housing Commissioner

Date: September 21, 2017

Re: City Council Bill 17-0034R - for Request for State Action - Set a Strong Nitrogen Oxides

Limit for the Wheelabrator Baltimore Incinerator

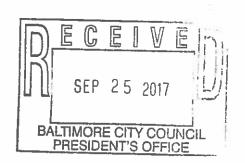
The Department of Housing and Community Development (HCD) has reviewed City Council Bill 17-0034R, for the purpose of urging the Maryland Department of the Environment to set a nitrogen oxides pollution limit for the Wheelabrator Baltimore incinerator that is no higher than the 150 ppm standard on a 24-hour average that has been adopted by Connecticut and New Jersey and proposed in Massachusetts, or, if at all possible, significantly lower than 150 ppm in order to provide maximum air quality benefits to residents of Baltimore.

If enacted, the City would request that the Maryland Department of the Environment set pollution limits on nitrogen oxides from the Baltimore incinerator to assist with improving air quality.

The Department of Housing and Community Development supports the passage of City Council Bill 17-0034R.

MB:sd

cc: Ms. Karen Stokes, Mayor's Office of Government Relations Mr. Kyron Banks, Mayor's Office of Government Relations







F R O M	Name & Title	Dr. Leana Wen	Health Department	STATE OF PARTY AND THE STATE OF
	Agency Name & Address	Health Department 1001 E. Fayette Street Baltimore, Maryland 21201	МЕМО	
	Subject	17-0034R – Request for State Action – Set a Strong Nitrogen Oxides Limit for the Wheelabrator Baltimore Incinerator		

To: President and Members of the City Council c/o 409 City Hall

Sept. 21, 2017

The Baltimore City Health Department (BCHD) is pleased to have the opportunity to review 17-0034R - Request for State Action - Set a Strong Nitrogen Oxides Limit for the Wheelabrator Baltimore Incinerator. The purpose of this resolution is to call upon the Maryland Department of the Environment (MDE) to set stronger limits for the emissions of nitrogen oxide (NO2) for the Wheelabrator.

The resolution will not impact BCHD operations, as BCHD does not enforce the standards being recommended for reduction. The positive impact of MDE reducing allowable NO2 emissions for those living in the immediate area is difficult to measure. However, the Environmental Protection Agency's (EPA) recent Integrated Science Assessment (ISA) for Oxides of Nitrogen – Health Criteria (Final Report, 2016) serves to strengthen the cumulative body of evidence that indicates that short-term exposure to NO2 can cause respiratory effects. In particular, these effects are related to asthma exacerbation, a disease that impacts Baltimore's children disproportionately.

Baltimore City suffers from high rates of asthma. The state Department of Health and Mental Hygiene reports 12.4% of Baltimore City adults have asthma, four points higher than the statewide average. Moreover, 1 in 5 children under the age of 18 in Baltimore City suffer from asthma, double the national average. These high rates lead to large losses of productivity through missed school and work days. Reduced air pollution realized through a Zero Waste plan could help the city lower its asthma rates.

BCHD appreciates the opportunity to review issues connected to NO2 emissions at this informational hearings, and to provide information on the potential health benefits of lower emissions.

Leana S. Wen, M.D., M.Sc.

Commissioner of Health

**Baltimore City** 

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BALTIMORE CITY COUNCIL
PRESIDE TO SEFFICE

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### CITY OF BALTIMORE

CATHERINE E. PUGH, Mayor



### DEPARTMENT OF LAW

101 City Hall Baltimore, Maryland 21202

July 27, 2017

The Honorable President and Members of the Baltimore City Council Attn: Executive Secretary Room 409, City Hall 100 N. Holliday Street Baltimore, Maryland 21202

> Re: City Council Bill 17-0034R - Request for State Action - Set a Strong Nitrogen Oxides Limit for the Wheelabrator Baltimore Incinerator

Dear President and City Council Members:

The Law Department has reviewed City Council Bill 17-0034R for form and legal sufficiency. This resolution calls on the Maryland Department of the Environment to set certain limits for Nitrogen Oxides at the Baltimore Incinerator.

A resolution is an appropriate way for the City Council of Baltimore to request action from a state agency. See, e.g., Inlet Assocs. v. Assateague House Condominium, 313 Md. 413, 428 (1988). Therefore, the Law Department approves this Resolution for form and legal sufficiency.

Very truly yours,

Hilary Ruley Chief Solicitor

David E. Ralph, Acting City Solicitor CC:

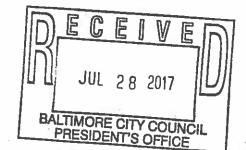
Karen Stokes, Director, Mayor's Office of Government Relations

Kyron Banks, Mayor's Legislative Liaison

Elena DiPietro, Chief Solicitor, General Counsel Division

Victor Tervala, Chief Solicitor

Jennifer Landis, Assistant Solicitor





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### INTRODUCTORY\*

CITY OF BALTIMORE
COUNCIL BILL \_\_\_\_R
(Resolution)

DEPT LEGISLATIVE REFERM

APPEUVED FOR FORM STYLE, AND TEXTUAL SUFFIENCY

Introduced by: Councilmembers Reisinger and Clarke

### A RESOLUTION ENTITLED

A COUNCIL RESOLUTION concerning

Request for State Action – Set a Strong Nitrogen Oxides Limit for the Wheelabrator
Baltimore Incinerator

HUA Law Health HCD

For the purpose of urging the Maryland Department of the Environment to set a nitrogen oxides pollution limit for the Wheelabrator Baltimore incinerator that is no higher than the 150 ppm standard on a 24-hour average that has been adopted by Connecticut and New Jersey and proposed in Massachusetts, or, if at all possible, significantly lower than 150 ppm in order to provide maximum air quality benefits to residents of Baltimore.

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\* WARNING: THIS IS AN UNOFFICIAL, INTRODUCTORY COPY OF THE BILL.
THE OFFICIAL COPY CONSIDERED BY THE CITY COUNCIL IS THE FIRST READER COPY.

The new NOx limits established under this rulemaking must, at minimum, meet a standard called Reasonably Available Control Technology ("RACT"). The RACT standard is defined as "the lowest emissions limit that a particular source is capable of meeting by the application of control technology that is reasonably available considering technological and economic feasibility."

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The Baltimore incinerator receives financial benefits because it is treated as a Tier 1 source of renewable energy under Maryland's Renewable Portfolio Standard. Under this program, Marylanders are supposed to reap benefits from renewable energy resources that include long-term decreased emissions and a healthier environment.

Now, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF BALTIMORE, That the Council urges the Maryland Department of the Environment to set a nitrogen oxides pollution limit for the Wheelabrator Baltimore incinerator that is no higher than the 150 ppm standard on a 24-hour average that has been adopted by Connecticut and New Jersey and proposed in Massachusetts, or, if at all possible, significantly lower than 150 ppm in order to provide maximum air quality benefits to residents of Baltimore.

AND BE IT FURTHER RESOLVED, That a copy of this Resolution be sent to the Governor, the Secretary of the Maryland Department of the Environment, the Director of the Air and Radiation Management Administration, the Division Chief of the Air Quality Regulations Division, the Mayor, and the Mayor's Legislative Liaison to the City Council.

# Judiciary and Legislative Investigations Informational Hearing on Request for State Action – Set a Strong Nitrogen Oxides Limit for the Wheelabrator Baltimore Incinerator Thursday – September 28, 2017

### **Panelists**

Destiny Watford, 2016 Goldman Environmental Prize winner

Mike Ewall, Founder and Director Energy Justice Network

James Alston, Westport Resident and leader within the Westport Community Development Corporation

Dr. Laalitha Surapaneni, Hospitalist at Bayview and public health graduate

Leah Kelly, Environmental Integrity Project

Neil Seldman, co-founder of the Institute for Local Self-Reliance and is a member of ILSR's Board of Directors. (Zero Waste)

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### Krummerich, Richard

From:

Gayle Killen <killchar@gmail.com>

Sent:

Wednesday, September 20, 2017 12:35 PM

To:

Bullock, John; Schleifer, Isaac; Burnett, Kristerfer; Henry, Bill (email); Sneed, Shannon;

Cohen, Zeke; Dorsey, Ryan; Krummerich, Richard

Subject:

Bresco Incinerator and Baltimore Air Quality

Greetings, and thank you for your care and concern over citizen health.

I ask you to emphatically urge the Maryland Department of the Environment to set a nitrogen oxides pollution limit for the Wheelabrator Baltimore incinerator that is no higher than the 150 ppm standard on a 24-hour average that has been adopted by Connecticut and New Jersey and proposed in Massachusetts, or, if at all possible, significantly lower than 150 ppm in order to provide maximum air quality benefits to residents of Baltimore.

Sincere Gratitude, Gayle Killen Ellicott City, MD

Every great advance in natural knowledge has involved the absolute rejection of authority.

~Thomas H. Huxley

Dear Chairman and Council Members.

Thank you for the opportunity to share scientific evidence on the toxic effects of NOx on all of our health. I am a practicing Internal Medicine physician at Johns Hopkins Bayview representing Physicians for Social Responsibility. I am here to speak on behalf of my patients who suffer from Asthma, COPD Heart Disease and Lung Cancer. Everyday I see these patients, struggling with their diseases, taking newer, more expensive medications, sick, in the hospital, missing work and time spent with their families. All of these illnesses have been linked to air pollution and NOx in particular.

Exposure to NOx is associated with higher risk for asthma related hospital visits <sup>1,2</sup>, especially in children.<sup>3</sup> NOx also stunts the growth of lungs in children.<sup>4</sup> Unfortunately, medications via Inhalers do not seem to completely counter the effects of air pollution<sup>5</sup>. Studies done worldwide show that exposure to NOx increases fatalities, (with a study showing that for every 10 microgram per m3 increase in No2, chance of mortality from a cardiovascular cause increases by 13% )<sup>6</sup>. A study done right here in Baltimore shows that NOx disproportionately increases mortality in patients on dialysis<sup>7</sup>

NOx also acts as a source to generate other more dangerous pollutants like ground level ozone and Particulate matter. Higher levels of Ozone were associated with a 3 time higher likelihood of developing asthma in children playing outside for a longer time<sup>8</sup>. Particulate matter is shown to cause increased deaths from cardiovascular causes and is associated with increased heart attacks<sup>9</sup>, strokes<sup>10</sup>, kidney disease<sup>11</sup>, diabetes<sup>12</sup>, infertility stillbirths<sup>13</sup>, and death from cardiovascular disease<sup>14</sup>.

As I appeal to you today, it does not escape me that the air I breathe as a physician living in an upscale walk able neighborhood with green spaces is quite different from the air some of my patients breathe. Studies show that NOx and its copollutants **disproportionally** affect our vulnerable populations- children, elderly<sup>15</sup>, people suffering from pre-existing conditions, racial minorities<sup>16</sup> and city residents living in poverty.<sup>17</sup>

21230 is the area affected most by BRESCO's emissions according to Dr. Gray's modeling report<sup>18</sup>. The asthma emergency room visit rate in zip code 21230 is about 80% higher than the statewide rate. According to the state health data from 2009, we in Baltimore City spend around 23million dollars per year on asthma hospitalizations, 72% of which is paid by public insurance<sup>19</sup>. We do not know that this burden falls entirely on NOx. However, we maintain that decreasing NOx emissions will improve health outcomes for some of these residents and save taxpayer dollars.

The good news is that there is evidence that decreases in NOx levels are translated to health benefits in real time. 2 studies done in California showed decreasing NOx and ozone levels in communities improve lung function in children<sup>20</sup> and reduce

bronchitis episodes in children<sup>21</sup>. This improved lung function translates into adulthood and prevents premature deaths. Studies from Europe show decline in mortality from decreased NOx levels.<sup>22</sup> Studies in the United States also show that decrease in particulate matter increases life expectancy<sup>23</sup>

Today you have the power to save lives. As you enact this set of nitrogen dioxide related regulations, to prevent some Maryland children from missing school from their asthma, to prevent a young never-smoker from getting lung cancer. <sup>24</sup>Because of what you do to set a RACT limit for the BRESCO incinerator that is much lower than 150 ppm on a 24-hour basis, someone's grandma in Maryland will live longer and someone's dad will not have a heart attack. Please take this opportunity to save lives and make Maryland a better place for everyone to live, work and raise a family.

<sup>2</sup> https://www.ncbi.nlm.nih.gov/pubmed/9892028

<sup>3</sup> https://www.ncbi.nlm.nih.gov/pubmed/22763046

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http://journals.lww.com/epidem/Fulltext/2006/11001/Interaction Between Ambient Air Pollution and.748.aspx

Qian, Z., Lin, H., Liao, D., Lehman, E., Chinchilli, V., & Duan, Y. et al. (2006). Interaction Between Ambient Air Pollution and Typical Asthma Medication Regimens on Exhaled Nitric Oxide. *Epidemiology*, 17(Suppl), S287. http://dx.doi.org/10.1097/00001648-200611001-00748

<sup>6</sup> <a href="http://erj.ersjournals.com/content/44/3/744.article-info">http://erj.ersjournals.com/content/44/3/744.article-info</a>
Faustini, A., Rapp, R., & Forastiere, F. (2014). Nitrogen dioxide and mortality: review and meta-analysis of long-term studies. *European Respiratory Journal*, 44(3), 744-753. doi:10.1183/09031936.00114713

<sup>&</sup>lt;sup>1</sup> <a href="http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0138146">http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0138146</a>
Zheng, X., Ding, H., Jiang, L., Chen, S., Zheng, J., & Qiu, M. et al. (2015). Association between Air Pollutants and Asthma Emergency Room Visits and Hospital Admissions in Time Series Studies: A Systematic Review and Meta-Analysis. *PLOS ONE*, 10(9), e0138146. <a href="http://dx.doi.org/10.1371/journal.pone.0138146">http://dx.doi.org/10.1371/journal.pone.0138146</a>

<sup>(2017).</sup> Retrieved 27 September 2017, from http://Emergency room visits of asthmatic children, relation to air pollution, weather, and airborne allergens. Garty BZ1, Kosman E, Ganor E, Berger V, Garty L, Wietzen T, Waisman Y, Mimouni M, Waisel

Vieira, S., Stein, R., Ferraro, A., Pastro, L., Pedro, S., & Lemos, M. et al. (2012). Urban Air Pollutants Are Significant Risk Factors for Asthma and Pneumonia in Children: The Influence of Location on the Measurement of Pollutants. *Archivos De Bronconeumología* (English Edition), 48(11), 389-395. http://dx.doi.org/10.1016/j.arbr.2012.08.002

<sup>&</sup>lt;sup>4</sup> http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0142565 Barone-Adesi, F., Dent, J. E., Dajnak, D., Beevers, S., Anderson, H. R., Kelly, F. J., . . . Whincup, P. H. (2015). Long-Term Exposure to Primary Traffic Pollutants and Lung Function in Children: Gross-Sectional Study and Meta-Analysis. *Plos One*, 10(11). doi:10.1371/journal.pone.0142565



<sup>7</sup> https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4602828/ Lin, J., Yen, T., Weng, C., & Huang, W. (2015). Environmental NO2 Level is Associated with 2-Year Mortality in Patients Undergoing Peritoneal Dialysis. *Medicine*, 94(1). doi:10.1097/md.000000000000368

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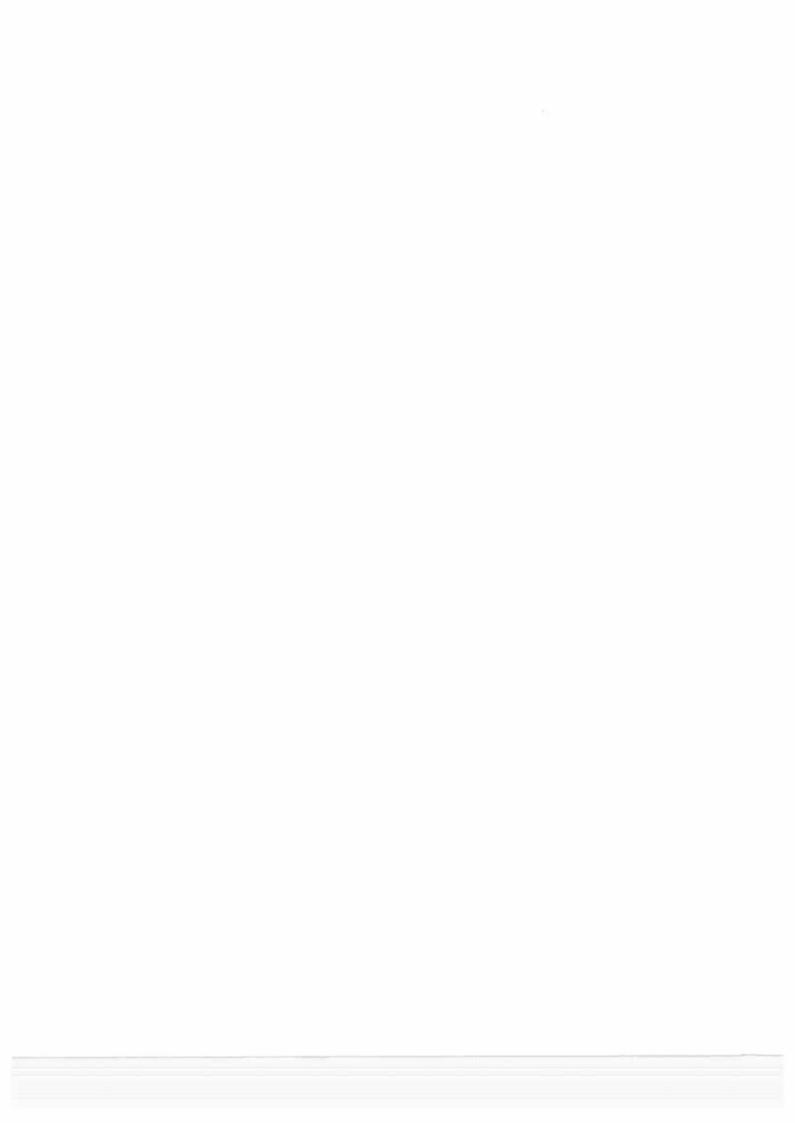


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### Krummerich, Richard

From:

Bullock, John

Sent:

Wednesday, September 27, 2017 11:22 AM

To:

Elizabeth L. Engleman

Subject:

RE: Hearing calling on the Maryland Department of the Environment (MDE) to Lower

Nitrogen Oxides Limits

Good Morning,

Thank you for sharing your perspective. We will add this to the record.

Best Regards,

Dr. John Bullock Councilman, 9th District 100 Holliday Street, Room 516 Baltimore, MD 21202 410-396-4815 john.bullock@baltimorecity.gov

**From:** Elizabeth L. Engleman [vSe304@hotmail.com] **Sent:** Wednesday, September 27, 2017 11:00 AM

To: Bullock, John; Schleifer, Isaac; Burnett, Kristerfer; Henry, Bill (email); Sneed, Shannon; Cohen, Zeke; Dorsey, Ryan Cc: Clarke, Mary Pat; Jennifer Kunze; Reisinger, Edward; Pinkett, Leon; Scott, Brandon; Costello, Eric; City Council

President; Middleton, Sharon; Stokes, Robert; Stephen Cleghorn

Subject: Hearing calling on the Maryland Department of the Environment (MDE) to Lower Nitrogen Oxides Limits

DATE: September 27, 2017

TO: Housing and Urban Affairs Committee

**Baltimore City Council** 

<u>RE 17-0034R</u> Request for State Action - Set a Strong Nitrogen Oxides Limit for the Wheelabrator Baltimore Incinerator For the purpose of urging the Maryland Department of the Environment to set a nitrogen oxides pollution limit for the Wheelabrator Baltimore incinerator that is no higher than the 150 ppm standard on a 24-hour average that has been adopted by Connecticut and New Jersey and proposed in Massachusetts, or, if at all possible, significantly lower than 150 ppm in order to provide maximum air quality benefits to residents of Baltimore.

FROM:

Elizabeth Engleman

4000 N Charles ST, Suite 1610

Baltimore, MD 21218 Cell 863 632 3075

#### Dear Councilmembers:

This is written in support of efforts to set a stricter limit on the BRESCO trash burning incinerator's nitrogen oxide (NOx) pollution limits. NOx mixed with sunlight creates unacceptable ground level ozone. From this, NOx contributes to the region's hazy air, its oxygen-gobbling algal blooms in the Chesapeake Bay and ozone and fine airborne particles that cause asthma and other respiratory disease.

I serve as Co-chair of Peace and Justice Ministry-Environmental Justice Steering Committee for First Unitarian Church of Baltimore. We are a vibrant urban congregation in celebration of our historic Bicentennial year.

Our brief Mission Statement provides the context in which I write:

- -Transforming spirits,
- -Celebrating diversity,
- -Supporting each other,
- -Building a better Baltimore

To be clearer, I shall cite two mandates from our Mission:

- We partner with Baltimore communities to mutually transform
- We challenge injustice, brutality and ignorance with compassion, love and understanding.

This is our **Vision**, " We bring hope as we work with our Baltimore neighbors to heal the wounds of racism, poverty and injustice."

Our Change-for-Change partner, Clean Water Action-Maryland, states our concern in this way, "The BRESCO trash incinerator is the largest air polluter in Baltimore, wastes what could be a valuable resource for local businesses using zero waste practices, and connects with a system of steam pipes that put residents and visitors at risk."

Even though the "waste to energy" industry often touts trash incineration as a source of "green" energy, it's far from that - BRESCO generated more NOx pollution per unit of energy than any power plant in Maryland.

Variable winds provide long term health risks to our members, friends and neighbors. At greatest risk are neighbors who are particularly vulnerable populations such as children, the elderly and individuals with asthma. Although the odor is unbearable at times, that is not the gravest threat.

'In addition to BRESCO's NOx releases, its sulfur dioxide, formaldehyde, mercury and hydrochloric acid emissions are also the highest of any industrial source in the city", according to Michael Ewall, of Energy Justice Network, who reviewed the most recent Environmental Protection Agency data.

"At 3 million pounds annually, the incinerator accounts for more than 37% of all the stationary (non-car) emissions in Baltimore", Ewall said.

Chesapeake Bay Foundation and Environmental Integrity Project has said about BRESCO: "They're getting a fair amount of money for producing ostensibly clean energy...(and) Some of that ought to be reinvested in good pollution controls to protect the lungs of the ratepayers who are subsidizing that."

I concur that 17-0034R is a good start to Request for State Action - Set a Strong Nitrogen Oxides Limit for the Wheelabrator Baltimore Incinerator For the purpose of urging the Maryland Department of the Environment to set a nitrogen oxides pollution limit for the Wheelabrator Baltimore incinerator that is no higher than the 150 ppm standard on a 24-hour average that has been adopted by Connecticut and New Jersey and proposed in Massachusetts, or, if at all possible, significantly lower than 150 ppm in order to provide maximum air quality benefits to residents of Baltimore.

However, I am mandated to ask that no citation of "unbearable cost" be allowed to let BRESCO continue operations as usual. The technology exists to remedy for Nitrogen Oxide limits of 150ppm (standard on a 24-hour average) or less. Life and health emergencies of our members and neighbors demand we should make sure it's polluting as little as possible - and that's a whole lot less than it's polluting now.

I stand with Destiny Watford, student activist, who points to a 2013 Massachusetts Institute of Technology study that found Baltimore has the highest emissions-related mortality rate of all the large cities in the country. Of every 100,000 residents in the city, the study found that 130 were likely to die prematurely each year of causes related to air pollution. This is unacceptable now!

With respect and hope,

Elizabeth Engleman

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### Krummerich, Richard

From:

Thomas Reilly <tmtreilly@gmail.com>

Sent:

Thursday, September 28, 2017 8:26 AM

To:

Bullock, John; Schleifer, Isaac; Burnett, Kristerfer; Henry, Bill (email); Sneed, Shannon;

Cohen, Zeke; Dorsey, Ryan

Cc:

Krummerich, Richard

Subject:

Bresco Incinerator

### Hello all,

I work in the solid waste industry in Anne Arundel County, but live in Baltimore City. I am a registered Professional Engineer (PE) and Board Certified Environmental Engineer (BCEE). I am also a concerned citizen when it comes to our air quality.

I urge you to pressure MDE to set stricter limits on the NOx pollution that is currently escaping the BRESCO incinerator. Some of the harmful effects of NOx pollution (from the EPA website):

- Breathing air with a high concentration of NO2 can irritate airways in the human respiratory system. Such exposures over short periods can aggravate respiratory diseases, particularly asthma, leading to respiratory symptoms (such as coughing, wheezing or difficulty breathing).
- NO2 along with other NOx reacts with other chemicals in the air to form both particulate matter and ozone. Both of these are also harmful when inhaled due to effects on the respiratory system.
- NO2 and other NOx interact with water, oxygen and other chemicals in the atmosphere to form acid rain. Acid rain harms sensitive ecosystems such as lakes and forests.
- The nitrate particles that result from NOx make the air hazy and difficult to see though. This
  affects the many national parks that we visit for the view.

Let's make Baltimore a healthier place to live AND become a shining example for other cities regarding how to manage our pollution.

Thank you for your time.

-Thomas Reilly, P.E., BCEE

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## AMENDMENTS TO COUNCIL BILL 17-0034R (1st Reader Copy)

By: The Housing and Urban Affairs Committee {To be offered on the Council Floor}

### Amendment No. 1

On page 2, after line 27, insert:

"The Council requests that the Maryland Department of the Environment use its legal authority to go beyond the RACT standard in order to set a nitrogen oxides limit of 45 ppm on a 24-hour basis, which is the limit that would likely be set for a new incinerator.".

