

Colgate University  
Facilities Department  
13 Oak Drive • Hamilton, NY 13346-1398  
(315) 228-7130 • (315) 228-7131

## *Annual Report Cover Letter*

January 26, 2017

Mr. Reggie Parker, P.E.  
NYS Department of Environmental Conservation  
Division of Air Resources, Region 7  
615 Erie Blvd West  
Syracuse, NY 13204

**Re: Air State Facility Permit ID 7-2532-00002/00003  
Colgate University  
Annual Capping Certification Report  
Reporting Period January 1, 2016 – December 31, 2016**

Dear Mr. Parker:

This letter and the enclosed forms are submitted to meet the annual capping certification report requirements for Colgate University as required by 6 NYCRR 201-7.2 and permit conditions of the referenced Air State Facility Permit.

### **Certification of Truth, Accuracy, and Completeness**

A completed "Certification of Truth, Accuracy, and Completeness" form is attached.

### **Annual Capping Certification Forms**

Completed forms are attached for each of the following contaminants:

CAS # 000630-08-0	CARBON MONOXIDE
CAS # 0NY210-00-0	OXIDES OF NITROGEN
CAS # 007446-09-5	SULFUR DIOXIDE
CAS # 0NY075-00-0	PM-10

### **Opacity Monitoring**

In-house opacity monitoring is now conducted through a continuous monitoring system. Jan through Mar events were on a trail period. Apr through Sep Boiler 4 was off line. Oct through Dec monitoring showed 22 events over 6 minute average limit. Monitoring forms and smoke school certifications enclosed.

### **Fuel Oil Sulfur Content**

A log of fuel oil sulfur content per delivery is attached. The recorded sulfur content for each delivery was .0015 percent by weight, in compliance with the permit maximum limit of .0015 weight percent.

**Summary**

This facility has operated well below emissions limits set forth in the permit for the reporting period of January 1, 2016 through December 31, 2016.

If any additional information is required by NYSDEC, please don't hesitate to call.

Sincerely,

A handwritten signature in black ink, appearing to read "Dan McCoach". The signature is fluid and cursive, with the first name "Dan" written in a larger, more prominent style than the last name "McCoach".

Dan McCoach

Cc: Thomas Vigneault, P.E., NYSDEC

Attachments

CERTIFICATE OF TRUTH, ACCURACY, AND COMPLETENESS

Report Type: Annual 2016 Reporting Period: 1/1/2016 To: 12/31/2016

DECID: 7-2532-00002

Facility Name: Colgate University

Address: 13 Oak Drive

Hamilton, NY 13346

**FACILITY CONTACT:**

Name: Dan McCoach

Title: Architectural Trades Manager

Telephone/Facsimile Number: (315) 228-6046 / (315) 941-6725

**RESPONSIBLE OFFICIAL:**

Name: Dan McCoach

Title: Architectural Trades Manager

Address: 13 Oak Drive

Hamilton, NY 13346

Telephone/Facsimile Number: (315) 228-6046 / (315) 941-6725

*The Responsible Official must sign this statement after the applicable report form is completed.*

I certify, under penalty of law, that based on information and belief formed after reasonable inquiry, the statements and information contained in these documents are true, accurate and complete.

Signature of Responsible Official:



Date:

26 JAN 2017


NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
Division of Air Resources

ANNUAL CAPPING CERTIFICATION  
FOR FACILITIES ISSUED FEDERALLY ENFORCEABLE EMISSION CAPS  
SUBJECT TO 6 NYCRR PART 201-7

FACILITY NAME: Colgate University REPORTING PERIOD: 1/1/2016 to 12/31/2016  
 FACILITY DECID#: 7-2532-00002 REGULATION CAPPED: 6 NYCRR 201-7  
 CONTAMINANT: Carbon Monoxide CAS#: 000630-08-0  
 CAPPING PARAMETER/LIMIT: Carbon Monoxide / 95 tons per year  
 PERMIT LEVEL: Facility  
 METHOD USED TO DETERMINE EMISSIONS: Fuel usage records and emission factors per Condition 1-4

MONTH/YEAR	MONTHLY TOTAL (TON)	12 MONTH ROLLING TOTAL (TON)
January 2016	4.2	47.4
February 2016	3.6	42.8
March 2016	2.5	39.7
April 2016	1.3	35.1
May 2016	0.4	30.1
June 2016	0.2	28.0
July 2016	0.3	27.9
August 2016	0.0	27.8
September 2016	0.4	27.6
October 2016	1.1	25.5
November 2016	1.9	22.1
December 2016	4.2	19.4

I certify that the above mentioned facility was in compliance with the permitted limit on a twelve month rolling basis.



Signature of Responsible Official

26 JAN 2017

Date

NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
Division of Air Resources

ANNUAL CAPPING CERTIFICATION  
FOR FACILITIES ISSUED FEDERALLY ENFORCEABLE EMISSION CAPS  
SUBJECT TO 6 NYCRR PART 201-7

FACILITY NAME: Colgate University REPORTING PERIOD: 1/1/2016 to 12/31/2016  
 FACILITY DECID#: 7-2532-00002 REGULATION CAPPED: 6 NYCRR 201-7  
 CONTAMINANT: Oxides of Nitrogen CAS#: 0NY210-00-0  
 CAPPING PARAMETER/LIMIT: Oxides of Nitrogen / 95 tons per year  
 PERMIT LEVEL: Facility  
 METHOD USED TO DETERMINE EMISSIONS: Fuel usage records and emission factors per Condition 1-3

MONTH/YEAR	MONTHLY TOTAL (TON)	12 MONTH ROLLING TOTAL (TON)
January 2016	2.3	23.0
February 2016	2.3	21.2
March 2016	1.5	19.9
April 2016	1.0	18.0
May 2016	0.5	16.2
June 2016	0.2	15.6
July 2016	0.3	15.5
August 2016	0.0	15.5
September 2016	0.5	15.1
October 2016	1.0	14.6
November 2016	1.0	13.5
December 2016	2.1	12.4

I certify that the above mentioned facility was in compliance with the permitted limit on a twelve month rolling basis.

  
 Signature of Responsible Official

26 Jan 2017  
 Date

NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
Division of Air Resources

ANNUAL CAPPING CERTIFICATION  
FOR FACILITIES ISSUED FEDERALLY ENFORCEABLE EMISSION CAPS  
SUBJECT TO 6 NYCRR PART 201-7

FACILITY NAME: Colgate University REPORTING PERIOD: 1/1/2016 to 12/31/2016  
 FACILITY DECID#: 7-2532-00002 REGULATION CAPPED: 6 NYCRR 201-7  
 CONTAMINANT: Particulate Matter - 10 micron (PM-10) CAS#: 0NY075-00-5  
 CAPPING PARAMETER/LIMIT: Particulate Matter - 10 micron (PM-10) / 95 tons per year  
 PERMIT LEVEL: Facility  
 METHOD USED TO DETERMINE EMISSIONS: Fuel usage records and emission factors

MONTH/YEAR	MONTHLY TOTAL (TON)	12 MONTH ROLLING TOTAL (TON)
January 2016	3.0	36.5
February 2016	2.5	32.6
March 2016	1.8	30.1
April 2016	0.6	26.3
May 2016	0.0	21.9
June 2016	0.0	19.9
July 2016	0.0	19.9
August 2016	0.0	19.9
September 2016	0.0	19.9
October 2016	0.5	17.9
November 2016	1.4	14.8
December 2016	3.2	12.7

I certify that the above mentioned facility was in compliance with the permitted limit on a twelve month rolling basis.



Signature of Responsible Official

26 JAN 2017

Date

NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
Division of Air Resources

ANNUAL CAPPING CERTIFICATION  
FOR FACILITIES ISSUED FEDERALLY ENFORCEABLE EMISSION CAPS  
SUBJECT TO 6 NYCRR PART 201-7

FACILITY NAME: Colgate University REPORTING PERIOD: 1/1/2016 to 12/31/2016  
 FACILITY DECID#: 7-2532-00002 REGULATION CAPPED: 6 NYCRR 201-7  
 CONTAMINANT: Sulfur Dioxide (SO2) CAS#: 007446-09-5  
 CAPPING PARAMETER/LIMIT: Sulfur Dioxide (SO2) / 95 tons per year  
 PERMIT LEVEL: Facility  
 METHOD USED TO DETERMINE EMISSIONS: Fuel usage records and emission factors

MONTH/YEAR	MONTHLY TOTAL (TON)	12 MONTH ROLLING TOTAL (TON)
January 2016	0.007	0.05
February 2016	0.009	0.04
March 2016	0.005	0.04
April 2016	0.005	0.04
May 2016	0.003	0.04
June 2016	0.002	0.05
July 2016	0.002	0.05
August 2016	0.000	0.04
September 2016	0.003	0.04
October 2016	0.005	0.05
November 2016	0.002	0.05
December 2016	0.005	0.05

I certify that the above mentioned facility was in compliance with the permitted limit on a twelve month rolling basis.

  
Signature of Responsible Official

26 JAN 2017  
Date

Date	Time	6 Minute Avg over 20%	6 Minute Avg over 27%	Reason over %	Corrective Action
1/2/2016	8:45		33%	Blow down of tubes	Slowing down process of blowing down tubes
1/4/2016	16:15		37%	Boiler coming off line	
1/7/2016	12:15		44%	Boiler coming online	
1/8/2016	0:15		36%	Boiler rake down	Boiler still coming back on line, after this rakedown fully online
1/9/2016	9:00		62%	Rakedown, blow tubes	Slowing down process of blowing down tubes
1/10/2016	0:20	21%		Rakedown, blow tubes	Slowing down process of blowing down tubes
1/19/2016	15:30	26%		Controller Malfuction	Fixed controller
1/20/2016	17:35		over 75%	Controller Malfuction	Fixed controller; over fed firebox with wood, took 1 hr to get opacity down
1/21/2016	1:15		over 75%	Controller Malfuction	Fixed controller; over fed firebox with wood, took 1 hr to get opacity down
1/21/2016	9:30		80%	Rakedown, blow tubes	Slowing down process of blowing down tubes
1/22/2016	17:30		53%	Rakedown, blow tubes	Slowing down process of blowing down tubes
1/23/2016	8:15		59%	Rakedown, blow tubes	Slowing down process of blowing down tubes
1/23/2016	9:30		63%	Fire box over feed	While bringing boiler back up after rakedown, firebox overfed
1/23/2016	10:30		over 75%	Fire box over feed	While bringing boiler back up after rakedown, firebox overfed
1/23/2016	17:30	24%		Rakedown, blow tubes	Slowing down process of blowing down tubes
1/27/2016	11:30		48%	Controller Malfuction	Fixed controller, firebox over fed.
1/27/2016	15:10		30%	Controller Malfuction	Fixed controller, firebox over fed.
1/27/2016	16:15		50%	Controller Malfuction	Fixed controller, firebox over fed.
1/27/2016	18:00		30%	Controller Malfuction	Fixed controller, firebox over fed.
1/31/2016	16:30		28%	Rakedown, blow tubes	Slowing down process of blowing down tubes































# AeroMet

Engineering, Inc.

*Solutions for a Changing Environment*

## Certification of Visible Opacity Reading

**Daniel McCoach**

qualified to conduct EPA Method 9 Tests for visible opacity in accordance with the methods established for such qualification in 40 CFR Part 60 Appendix A.

Certification Date: October 01, 2015

Expiration Date: April 01, 2016

AeroMet Instructor: Trey Beauchamp



# AeroMet

Engineering, Inc.

*Solutions for a Changing Environment*

## Certification of Visible Opacity Reading

**Daniel McCoach**

qualified to conduct EPA Method 9 Tests for visible opacity in accordance with the methods established for such qualification in 40 CFR Part 60 Appendix A.

Certification Date: March 31, 2016

Expiration Date: October 01, 2016

AeroMet Instructor: Trey Beauchamp



# AeroMet

Engineering, Inc.

*Solutions for a Changing Environment*

## Certification of Visible Opacity Reading

**Daniel McCoach**

qualified to conduct EPA Method 9 Tests for visible opacity in accordance with the methods established for such qualification in 40 CFR Part 60 Appendix A.

Certification Date: September 29, 2016

Expiration Date: March 29, 2017

AeroMet Instructor: Trey Beauchamp



# AeroMet

Engineering, Inc.

Solutions for a Changing Environment

## Certification of Visible Opacity Reading

**Howard Lewis**

qualified to conduct EPA Method 9 Tests for visible opacity in accordance with the methods established for such qualification in 40 CFR Part 60 Appendix A.

Certification Date: September 29, 2016

Expiration Date: March 29, 2017

AeroMet Instructor: Trey Beauchamp