

Facility DEC ID: 9291200236

PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air State Facility
Permit ID: 9-2912-00236/00002
Effective Date: 06/26/2025 Expiration Date: 06/25/2035

Permit Issued To: CALGON CARBON CORPORATION
3000 GSK Dr
Moon Twp, PA 15108

Contact: David McAdams
Calgon Carbon Corporation
3000 GSK Dr
Moon Township, PA 15108
(412) 787-6700

Facility: Calgon Carbon Corporation
830 RIVER RD
North Tonawanda, NY 14120

Description:

This is a renewal of the Air State Facility permit issued to Calgon Carbon Corporation under DEC ID: 9291200236. Calgon Carbon leases and operates an activated carbon regeneration furnace owned by the City of North Tonawanda. The facility processes spent carbon from municipal water treatment, other food grade, or potable water application sources. This permit does not authorize the use of the sewage sludge incinerator located on-site.

The facility operates two (2) emission points. One emission point is associated with the activated carbon regeneration furnace (emission point 00001), and one emission point is associated with the baghouse for carbon loading and unloading activities (emission point 00003). The activated carbon regeneration furnace is vented to a venturi scrubber and 2-stage impingement scrubber with a mist eliminator for particulate and acid gas control.

Particulate emissions from the spent reactivated carbon loading, unloading and handling operations are directed to a baghouse which is exhausted to atmosphere through emission point 00003. As per 6 NYCRR Part 212-2.4(b), particulate emissions from this source shall not exceed 0.05 grains/dscf on a dry gas basis. The facility shall demonstrate compliance with this subpart by maintaining the pressure drop across the baghouse between 1"-6" w.c.. The baghouse pressure drop shall be observed and recorded at least once per day. Readings outside the normal operating range require inspection and maintenance of the baghouse system. The pressure gauge shall be inspected and calibrated at least twice per year.

The facility is subject to 6 NYCRR Part 212-1.6(a) and shall not cause or allow emissions having an average opacity during any six consecutive minutes of 20 percent

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or greater from any process emission source, except only the emission of uncombined water. The facility shall demonstrate compliance by performing monthly visible emission checks.

Particulate emissions generated from the carbon regeneration furnace may consist of hazardous air pollutants and are therefore assigned an 'A' environmental rating. In accordance with Table 4 of 6 NYCRR Part 212-2.3(b), a minimum overall control efficiency of 90 percent is required for particulate matter. The facility demonstrated compliance with a stack test performed July 23, 2014 that showed the scrubber achieved 99% removal of particulate matter.

To demonstrate ongoing compliance with 6 NYCRR Part 212 requirements, the facility shall monitor the following parameters to verify the furnace and scrubber systems are running properly; temperature of the furnace O-hearth (minimum 1300F), pressure drop across the venturi scrubber (minimum 12.5" w.c.), and water flow rate (minimum 140 gpm) of the impingement scrubber. The monitoring devices and any recorders shall be calibrated or serviced and replaced as needed and operated in accordance with the manufacturer's recommendations, instructions and operating manuals.

The facility performs analysis of incoming spent carbon from each source. The facility shall maintain records showing the analysis of spent carbon from each source and the amount of carbon processed from each source. Any new source of spent carbon shall be sampled and analyzed for the concentration of chlorinated hydrocarbons and metals.

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, the General Conditions specified and any Special Conditions included as part of this permit.

Permit Administrator: MICHELLE R WOZNICK
NYSDEC - REGION 9
700 DELAWARE AVE
BUFFALO, NY 14209

Authorized Signature: _____ Date: ____ / ____ / ____

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Notification of Other State Permittee Obligations**Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification**

The permittee expressly agrees to indemnify and hold harmless the Department of Environmental Conservation of the State of New York, its representatives, employees and agents ("DEC") for all claims, suits, actions, and damages, to the extent attributable to the permittee's acts or omissions in connection with the compliance permittee's undertaking of activities in connection with, or operation and maintenance of, the facility or facilities authorized by the permit whether in compliance or not in any compliance with the terms and conditions of the permit. This indemnification does not extend to any claims, suits, actions, or damages to the extent attributable to DEC's own negligent or intentional acts or omissions, or to any claims, suits, or actions naming the DEC and arising under article 78 of the New York Civil Practice Laws and Rules or any citizen suit or civil rights provision under federal or state laws.

Item B: Permittee's Contractors to Comply with Permit

The permittee is responsible for informing its independent contractors, employees, agents and assigns of their responsibility to comply with this permit, including all special conditions while acting as the permittee's agent with respect to the permitted activities, and such persons shall be subject to the same sanctions for violations of the Environmental Conservation Law as those prescribed for the permittee.

Item C: Permittee Responsible for Obtaining Other Required Permits

The permittee is responsible for obtaining any other permits, approvals, lands, easements and rights-of-way that may be required to carry out the activities that are authorized by this permit.

Item D: No Right to Trespass or Interfere with Riparian Rights

This permit does not convey to the permittee any right to trespass upon the lands or interfere with the riparian rights of others in order to perform the permitted work nor does it authorize the impairment of any rights, title, or interest in real or personal property held or vested in a person not a party to the permit.

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DEC GENERAL CONDITIONS

**** General Provisions ****

GENERAL CONDITIONS - Apply to ALL Authorized Permits.**Condition 1: Facility Inspection by the Department****Applicable State Requirement: ECL 19-0305****Item 1.1:**

The permitted site or facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the permittee is complying with this permit and the ECL. Such representative may order the work suspended pursuant to ECL 71-0301 and SAPA 401(3).

Item 1.2:

The permittee shall provide a person to accompany the Department's representative during an inspection to the permit area when requested by the Department.

Item 1.3:

A copy of this permit, including all referenced maps, drawings and special conditions, must be available for inspection by the Department at all times at the project site or facility. Failure to produce a copy of the permit upon request by a Department representative is a violation of this permit.

Condition 2: Relationship of this Permit to Other Department Orders and Determinations**Applicable State Requirement: ECL 3-0301 (2) (m)****Item 2.1:**

Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination previously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.

Condition 3: Applications for permit renewals, modifications and transfers**Applicable State Requirement: 6 NYCRR 621.11****Item 3.1:**

The permittee must submit a separate written application to the Department for renewal, modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing.

Item 3.2:

The permittee must submit a renewal application at least 180 days before the expiration of permits for Title V and State Facility Permits.

Item 3.3

Permits are transferrable with the approval of the department unless specifically prohibited by the statute, regulation or another permit condition. Applications for permit transfer should be submitted prior to actual transfer of ownership.

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Condition 4: Permit modifications, suspensions or revocations by the Department
Applicable State Requirement: 6 NYCRR 621.13

Item 4.1:

The Department reserves the right to exercise all available authority to modify, suspend, or revoke this permit in accordance with 6NYCRR Part 621. The grounds for modification, suspension or revocation include:

- a) materially false or inaccurate statements in the permit application or supporting papers;
- b) failure by the permittee to comply with any terms or conditions of the permit;
- c) exceeding the scope of the project as described in the permit application;
- d) newly discovered material information or a material change in environmental conditions, relevant technology or applicable law or regulations since the issuance of the existing permit;
- e) noncompliance with previously issued permit conditions, orders of the commissioner, any provisions of the Environmental Conservation Law or regulations of the Department related to the permitted activity.

****** Facility Level ******

Condition 5: Submission of application for permit modification or renewal-REGION 9 HEADQUARTERS
Applicable State Requirement: 6 NYCRR 621.6 (a)

Item 5.1:

Submission of applications for permit modification or renewal are to be submitted to:
 NYSDEC Regional Permit Administrator
 Region 9 Headquarters
 Division of Environmental Permits
 700 Delaware Ave.,
 Buffalo, NY 14209
 (716) 851-7130

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Permit Under the Environmental Conservation Law (ECL)

ARTICLE 19: AIR POLLUTION CONTROL - AIR STATE FACILITY PERMIT

IDENTIFICATION INFORMATION

Permit Issued To: CALGON CARBON CORPORATION
3000 GSK Dr
Moon Twp, PA 15108

Facility: Calgon Carbon Corporation
830 RIVER RD
North Tonawanda, NY 14120

Authorized Activity By Standard Industrial Classification Code:
2869 - INDUSTRIAL ORGANIC CHEMICALS, NEC

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FEDERALLY ENFORCEABLE CONDITIONS

FINAL

**** Facility Level ****

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

This section contains terms and conditions which are federally enforceable. Permittees may also have other obligations under regulations of general applicability

Item A: Sealing - 6 NYCRR 200.5

The Commissioner may seal an air contamination source to prevent its operation if compliance with 6 NYCRR Chapter III is not met within the time provided by an order of the Commissioner issued in the case of the violation. Sealing means labeling or tagging a source to notify any person that operation of the source is prohibited, and also includes physical means of preventing the operation of an air contamination source without resulting in destruction of any equipment associated with such source, and includes, but is not limited to, bolting, chaining or wiring shut control panels, apertures or conduits associated with such source.

No person shall operate any air contamination source sealed by the Commissioner in accordance with this section unless a modification has been made which enables such source to comply with all requirements applicable to such modification.

Unless authorized by the Commissioner, no person shall remove or alter any seal affixed to any contamination source in accordance with this section.

Item B: Acceptable Ambient Air Quality - 6 NYCRR 200.6

Notwithstanding the provisions of 6 NYCRR Chapter III, Subchapter A, no person shall allow or permit any air contamination source to emit air contaminants in quantities which alone or in combination with emissions from other air contamination sources would contravene any applicable ambient air quality standard and/or cause air pollution. In such cases where contravention occurs or may occur, the Commissioner shall specify the degree and/or method of emission control required.

Item C: Maintenance of Equipment - 6 NYCRR 200.7

Any person who owns or operates an air contamination source which is equipped with an emission control device shall operate such device and keep it in a satisfactory state of maintenance and repair in accordance with ordinary and necessary practices, standards and procedures, inclusive of manufacturer's specifications,

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required to operate such device effectively.

Item D: Unpermitted Emission Sources - 6 NYCRR 201-1.2

(a) Except as otherwise provided by this Part, construction or operation of a new, modified or existing air contamination source without a registration or permit issued pursuant to this Part is prohibited.

(b) If an existing facility or emission source was subject to the permitting requirements of this Part at the time of construction or modification, and the owner or operator failed to apply for a permit or registration as described in this Part, the owner or operator must apply for a permit or registration in accordance with the provisions of this Part. The facility or emission source is subject to all regulations that were applicable to it at the time of construction or modification and any subsequent requirements applicable to existing emission sources.

Item E: Recycling and Salvage - 6 NYCRR 201-1.7

Where practical, any person who owns or operates an air contamination source shall recycle or salvage air contaminants collected in an air cleaning device according to the requirements of 6 NYCRR.

Item F: Prohibition of Reintroduction of Collected Contaminants to the Air - 6 NYCRR 201-1.8

No person shall unnecessarily remove, handle, or cause to be handled, collected air contaminants from an air cleaning device for recycling, salvage or disposal in a manner that would reintroduce them to the outdoor atmosphere.

Item G: Proof of Eligibility for Sources Defined as Exempt Activities - 6 NYCRR 201-3.2 (a)

The owner and/or operator of an emission source or unit that is eligible to be exempt, may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request.

Department representatives must be granted access to any facility which contains emission sources or units subject to 6 NYCRR Subpart 201-3, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

Item H: Proof of Eligibility for Sources Defined as Trivial

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Activities - 6 NYCRR 201-3.3 (a)

The owner and/or operator of an emission source or unit that is listed as being trivial in 6 NYCRR Part 201 may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility which contains emission sources or units subject to 6 NYCRR Subpart 201-3, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

Item I: Required Emission Tests - 6 NYCRR 202-1.1

An acceptable report of measured emissions shall be submitted, as may be required by the Commissioner, to ascertain compliance or noncompliance with any air pollution code, rule, or regulation. Failure to submit a report acceptable to the Commissioner within the time stated shall be sufficient reason for the Commissioner to suspend or deny an operating permit. Notification and acceptable procedures are specified in 6 NYCRR Subpart 202-1.

Item J: Open Fires Prohibitions - 6 NYCRR 215.2

Except as allowed by section 215.3 of 6 NYCRR Part 215, no person shall burn, cause, suffer, allow or permit the burning of any materials in an open fire.

Item K: Permit Exclusion - ECL 19-0305

The issuance of this permit by the Department and the receipt thereof by the Applicant does not and shall not be construed as barring, diminishing, adjudicating or in any way affecting any legal, administrative or equitable rights or claims, actions, suits, causes of action or demands whatsoever that the Department may have against the Applicant for violations based on facts and circumstances alleged to have occurred or existed prior to the effective date of this permit, including, but not limited to, any enforcement action authorized pursuant to the provisions of applicable federal law, the Environmental Conservation Law of the State of New York (ECL) and Chapter III of the Official Compilation of the Codes, Rules and Regulations of the State of New York (NYCRR). The issuance of this permit also shall not in any way affect pending or future enforcement actions under the Clean Air Act brought by the United States or any person.

Item L: Federally Enforceable Requirements - 40 CFR 70.6 (b)

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All terms and conditions in this permit required by the Act or any applicable requirement, including any provisions designed to limit a facility's potential to emit, are enforceable by the Administrator and citizens under the Act. The Department has, in this permit, specifically designated any terms and conditions that are not required under the Act or under any of its applicable requirements as being enforceable under only state regulations.

FEDERAL APPLICABLE REQUIREMENTS
The following conditions are federally enforceable.

Condition 1: Visible Emissions Limited
Effective between the dates of 06/26/2025 and 06/25/2035

Applicable Federal Requirement: 6 NYCRR 211.2

Item 1.1:

Except as permitted by a specific part of this Subchapter and for open fires for which a restricted burning permit has been issued, no person shall cause or allow any air contamination source to emit any material having an opacity equal to or greater than 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent opacity.

****** Emission Unit Level ******

Condition 2: Compliance Demonstration
Effective between the dates of 06/26/2025 and 06/25/2035

Applicable Federal Requirement: 6 NYCRR 212-2.3 (b)

Item 2.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-CARBR

Item 2.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The carbon regeneration furnace shall only operate in conjunction with a fully functional scrubber. All surrogate monitoring parameters cited elsewhere in this permit must meet the stated requirements at all times during furnace operation. All deviations are subject to

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the recordkeeping and reporting requirements of 6 NYCRR
Part 201-1.4 and Permit Condition 11.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 3: Compliance Demonstration
Effective between the dates of 06/26/2025 and 06/25/2035

Applicable Federal Requirement: 6 NYCRR 212-2.3 (b)

Item 3.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-CARBR

Item 3.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The carbon regeneration furnace shall not process any raw material which contains chlorinated dioxins, dibenzofurans, or acrylonitrile. No hazardous waste as defined by 6 NYCRR Part 373 may be handled or processed at the facility.

The permittee shall maintain records of the amount of carbon treated and a representative analysis of incoming spent carbon received which demonstrates the characteristics of the waste carbon. These records shall be made available to NYSDEC upon request.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 4: Compliance Demonstration
Effective between the dates of 06/26/2025 and 06/25/2035

Applicable Federal Requirement: 6 NYCRR 212-2.3 (b)

Item 4.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-CARBR

Item 4.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL

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DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

The flow rate across the impingement plate scrubber shall be maintained at a minimum of 140 gallons per minute (gpm). The scrubber water flow rate, in gpm, shall be monitored and recorded daily. The monitoring devices and any recorders shall be calibrated or serviced and replaced as needed and operated in accordance with the manufacturer's recommendations, instructions and operating manuals.

Records of daily scrubber flow readings and other data recorded during inspections of the scrubbers shall be maintained on-site for five years from the latest entry and be made available to NYSDEC upon request.

Parameter Monitored: FLOW RATE

Lower Permit Limit: 140 gallons per minute

Monitoring Frequency: DAILY

Averaging Method: MINIMUM-NOT TO FALL BELOW EXCEPT DURING STARTUP/SHUTDOWN

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 5: Compliance Demonstration
Effective between the dates of 06/26/2025 and 06/25/2035

Applicable Federal Requirement: 6 NYCRR 212-2.3 (b)

Item 5.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-CARBR

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 5.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Particulate emissions at the facility have an estimated Emission Rate Potential of 0.15 lbs/hr. Particulate emissions generated from the carbon regeneration furnace may consist of hazardous air pollutants and therefore shall be assigned an 'A' environmental rating.

Per Table 4 - degree of air cleaning required for non-criteria air contaminants in 6 NYCRR 2.3(b), the facility is required to demonstrate a minimum Degree of Air Cleaning of 90%. Compliance with the minimum degree of

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air cleaning requirement was demonstrated with a stack test conducted on July 23, 2014, which demonstrated the overall removal efficiency of the scrubber system to be greater than 99% for particulate matter.

NYSDEC reserves all rights to require a stack test in accordance with this permit condition. If a stack test is conducted, a stack test protocol must be submitted for NYSDEC review and approval at least 30 days before testing begins.

Parameter Monitored: DEGREE OF AIR CLEANING

Lower Permit Limit: 90 percent reduction

Reference Test Method: EPA Method 5

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: MINIMUM - NOT TO FALL BELOW STATED VALUE - SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 6: Compliance Demonstration
Effective between the dates of 06/26/2025 and 06/25/2035

Applicable Federal Requirement: 6 NYCRR 212-2.3 (b)

Item 6.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-CARBR

Item 6.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility shall implement and maintain a Preventative Maintenance & Inspection (PM) plan for the impingement plate scrubber and venturi scrubber used to control emissions from the carbon regeneration furnace. This plan shall be in accordance with the manufacturer's recommendations. The impingement scrubber and venturi scrubber PM plan shall include, at minimum, quarterly inspection and recording of:

- a.) visible liquid leaks;
- b.) system gas leaks;
- c.) pressure drop across scrubber;
- d.) water flow; and
- e.) pressure drop.

An internal inspection for abrasion, corrosion or buildup

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on fans, ducts, and pipes shall be conducted annually.

Records for quarterly and annual inspections shall be kept on site for 5 years from the latest inspection and be made available to NYSDEC upon request.

Monitoring Frequency: QUARTERLY

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 7: Compliance Demonstration
Effective between the dates of 06/26/2025 and 06/25/2035

Applicable Federal Requirement: 6 NYCRR 212-2.3 (b)

Item 7.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-CARBR

Item 7.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

The pressure drop across the scrubber is continuously maintained at a minimum 12.5" w.c. across the venturi when the regeneration furnace is in operation. The venturi throat area is controlled automatically depending on the gas flow to maintain the required pressure drop. The venturi gases are directed to an impingement plate scrubber followed by a mist eliminator.

The monitoring devices and any recorders shall be calibrated or serviced and replaced as needed and operated in accordance with the manufacturer's recommendations, instructions and operating manuals.

The permittee shall record the pressure drop across the scrubber, in inches of water, each day. Records of pressure drop readings across the scrubber shall be kept on site for 5 years from the latest entry and be made available to NYSDEC upon request.

Parameter Monitored: PRESSURE DROP

Lower Permit Limit: 12.5 inches of water

Monitoring Frequency: DAILY

Averaging Method: MINIMUM - NOT TO FALL BELOW STATED
VALUE - SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

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Condition 8: Compliance Demonstration
Effective between the dates of 06/26/2025 and 06/25/2035

Applicable Federal Requirement: 6 NYCRR 212-2.3 (b)

Item 8.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-CARBR

Item 8.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

The temperature of the furnace O-Hearth, which is used to control VOC emissions, shall operate at a minimum of 1300 degrees F. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the regeneration furnace O-Hearth. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations. The temperature recorder shall be calibrated or serviced or replaced, as needed, at a minimum of twice per year.

Records shall be maintained of the date of calibration and any maintenance of the temperature recorder. These records are to be kept on-site for five years and shall be made available to any NYSDEC representative for review during normal business hours.

Parameter Monitored: TEMPERATURE

Lower Permit Limit: 1300 degrees Fahrenheit

Monitoring Frequency: CONTINUOUS

Averaging Method: MINIMUM - NOT TO FALL BELOW STATED
VALUE AT ANY TIME

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 9: Compliance Demonstration
Effective between the dates of 06/26/2025 and 06/25/2035

Applicable Federal Requirement: 6 NYCRR 212-2.4 (b)

Item 9.1:

The Compliance Demonstration activity will be performed for:

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Facility DEC ID: 9291200236

Emission Unit: 1-CARBR

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 9.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

Particulate emissions from the spent reactivated carbon loading, unloading and handling operations are directed to a baghouse which is exhausted to atmosphere through emission point 00003. Per 6 NYCRR Part 212-2.4(b), particulate emissions from this source shall not exceed 0.05 grains/dscf on a dry gas basis.

The facility shall demonstrate compliance with this subpart by maintaining the pressure drop across the baghouse between 1 to 6 inches of water. The baghouse pressure drop shall be observed and recorded at least once per day. Readings outside the normal operating range require inspection and maintenance of the baghouse system. The pressure gauge shall be inspected and calibrated at least twice per year.

A record of all baghouse pressure drop readings, inspections and maintenance work performed along with the completion date shall be kept on-site for five years from the latest entry and be made available to NYSDEC upon request.

Parameter Monitored: PRESSURE DROP

Lower Permit Limit: 1 inches of water

Upper Permit Limit: 6 inches of water

Monitoring Frequency: DAILY

Averaging Method: RANGE - NOT TO FALL OUTSIDE OF STATED
RANGE AT ANY TIME

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

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STATE ONLY ENFORCEABLE CONDITIONS

**** Facility Level ****

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

This section contains terms and conditions which are not federally enforceable. Permittees may also have other obligations under regulations of general applicability

Item A: Emergency Defense - 6 NYCRR 201-1.5

An emergency, as defined in 6 NYCRR subpart 201-2, constitutes an affirmative defense to penalties sought in an enforcement action brought by the department for noncompliance with emissions limitations or permit conditions for all facilities in New York State.

(a) The affirmative defense of emergency shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

(1) an emergency occurred and that the facility owner or operator can identify the cause(s) of the emergency;

(2) the equipment at the facility was being properly operated and maintained;

(3) during the period of the emergency the facility owner or operator took all reasonable steps to minimize the levels of emissions that exceeded the emission standards, or other requirements in the permit; and

(4) the facility owner or operator notified the department within two working days after the event occurred. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and any corrective actions taken.

(b) In any enforcement proceeding, the facility owner or operator seeking to establish the occurrence of an emergency has the burden of proof.

(c) This provision is in addition to any emergency or malfunction provision contained in any applicable requirement.

Item B: Public Access to Recordkeeping for Facilities With State Facility Permits - 6 NYCRR 201-1.10 (a)

Where facility owners and/or operators keep records pursuant to compliance with the requirements of 6 NYCRR Subpart 201-5.4, and/or the emission capping requirements of 6 NYCRR Subpart 201-7, the Department will make such records available to the public upon request in accordance

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with 6 NYCRR Part 616 - Public Access to Records.
Facility owners and/or operators must submit the records
required to comply with the request within sixty working
days of written notification by the Department.

**Item C: General Provisions for State Enforceable Permit Terms and
Condition - 6 NYCRR Part 201-5**

Any person who owns and/or operates stationary sources
shall operate and maintain all emission units and any
required emission control devices in compliance with all
applicable Parts of this Chapter and existing laws, and
shall operate the facility in accordance with all
criteria, emission limits, terms, conditions, and
standards in this permit. Failure of such person to
properly operate and maintain the effectiveness of such
emission units and emission control devices may be
sufficient reason for the Department to revoke or deny a
permit.

The owner or operator of the permitted facility must
maintain all required records on-site for a period of five
years and make them available to representatives of the
Department upon request. Department representatives must
be granted access to any facility regulated by this
Subpart, during normal operating hours, for the purpose of
determining compliance with this and any other state and
federal air pollution control requirements, regulations or
law.

STATE ONLY APPLICABLE REQUIREMENTS

The following conditions are state only enforceable.

Condition 10: Contaminant List

Effective between the dates of 06/26/2025 and 06/25/2035

Applicable State Requirement: ECL 19-0301

Item 10.1:

Emissions of the following contaminants are subject to contaminant specific requirements in
this permit (emission limits, control requirements or compliance monitoring conditions).

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Name: PARTICULATES

Condition 11: Malfunctions and Start-up/Shutdown Activities

Effective between the dates of 06/26/2025 and 06/25/2035

Applicable State Requirement: 6 NYCRR 201-1.4

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Item 11.1:

(a) The facility owner or operator shall take all necessary and appropriate actions to prevent the emission of air pollutants that result in contravention of any applicable emission standard during periods of start-up, shutdown, or malfunction.

(b) The facility owner or operator shall compile and maintain records of all equipment maintenance and start-up/shutdown activities when they are expected to result in an exceedance of any applicable emission standard, and shall submit a report of such activities to the department when required by a permit condition or upon request by the department. Such reports shall state whether an exceedance occurred and if it was unavoidable, include the time, frequency and duration of the exceedance, and an estimate of the emission rates of any air contaminants released. Such records shall be maintained for a period of at least five years and made available for review to department representatives upon request. Facility owners or operators subject to continuous monitoring and quarterly reporting requirements need not submit additional reports of exceedances to the department.

(c) In the event that air contaminant emissions exceed any applicable emission standard due to a malfunction, the facility owner or operator shall notify the department as soon as possible during normal working hours, but not later than two working days after becoming aware that the malfunction occurred. In addition, the facility owner or operator shall compile and maintain a record of all malfunctions. Such records shall be maintained at the facility for a period of at least five years and must be made available to the department upon request. When requested by the department, the facility owner or operator shall submit a written report to the department describing the malfunction, the corrective action taken, the air contaminants emitted, and the resulting emission rates and/or opacity.

(d) The department may also require the facility owner or operator to include, in reports described under Subdivisions (b) and (c) of this Section, an estimate of the maximum ground level concentration of each air contaminant emitted and the effect of such emissions.

(e) A violation of any applicable emission standard resulting from start-up, shutdown, or malfunction conditions at a permitted or registered facility may not be subject to an enforcement action by the department and/or penalty if the department determines, in its sole discretion, that such a violation was unavoidable. The actions and recordkeeping and reporting requirements listed above must be adhered to in such circumstances.

Condition 12: Emission Unit Definition**Effective between the dates of 06/26/2025 and 06/25/2035****Applicable State Requirement: 6 NYCRR Subpart 201-5****Item 12.1:**

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: 1-CARBR

Emission Unit Description:

This emission unit describes the activated carbon regeneration furnace and baghouse associated with carbon loading and unloading activities. The activated carbon

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regeneration furnace is vented to a venturi scrubber and a 2-stage impingement scrubber with a mist eliminator for particulate and acid gas control.

Building(s): CALGON
CARBON

Condition 13: Renewal deadlines for state facility permits
Effective between the dates of 06/26/2025 and 06/25/2035

Applicable State Requirement:6 NYCRR 201-5.2 (c)

Item 13.1:

The owner or operator of a facility having an issued state facility permit shall submit a complete application at least 180 days, but not more than eighteen months, prior to the date of permit expiration for permit renewal purposes.

Condition 14: Compliance Demonstration
Effective between the dates of 06/26/2025 and 06/25/2035

Applicable State Requirement:6 NYCRR 201-5.3 (c)

Item 14.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 14.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Any reports or submissions required by this permit shall be submitted to the Regional Air Pollution Control Engineer (RAPCE) at the following address:

Division of Air Resources
NYS Dept. of Environmental Conservation
Region 9
700 Delaware Ave.,
Buffalo, N.Y. 14209

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 15: Air pollution prohibited
Effective between the dates of 06/26/2025 and 06/25/2035

Applicable State Requirement:6 NYCRR 211.1

Item 15.1:

No person shall cause or allow emissions of air contaminants to the outdoor atmosphere of such quantity, characteristic or duration which are injurious to human, plant or animal life or to property, or which unreasonably interfere with the comfortable enjoyment of life or property.

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Notwithstanding the existence of specific air quality standards or emission limits, this prohibition applies, but is not limited to, any particulate, fume, gas, mist, odor, smoke, vapor, pollen, toxic or deleterious emission, either alone or in combination with others.

Condition 16: Compliance Demonstration**Effective between the dates of 06/26/2025 and 06/25/2035****Applicable State Requirement: 6 NYCRR 211.1****Item 16.1:**

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

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Item 16.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The permittee shall immediately address any carbon spills outside the facility including but not limited to outside storage areas, parking lots, roadways, and loading docks. The main public road at the driveway from the facility shall at all times be kept clean of dust/dirt which may be tracked off-site by trucks.

The permittee will maintain the level of housekeeping in the process areas so that fugitive emissions are not emitted from the building.

Monitoring Frequency: CONTINUOUS

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

****** Emission Unit Level ********Condition 17: Emission Point Definition By Emission Unit****Effective between the dates of 06/26/2025 and 06/25/2035****Applicable State Requirement: 6 NYCRR Subpart 201-5****Item 17.1:**

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 1-CARBR

Emission Point: 00001

Height (ft.): 56

Diameter (in.): 24

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NYTMN (km.): 4772.82 NYTME (km.): 183.129 Building: CARBON
 Emission Point: 00003
 Height (ft.): 55 Length (in.): 85 Width (in.): 20
 NYTMN (km.): 4772.82 NYTME (km.): 183.1 Building: CALGON

Condition 18: Process Definition By Emission Unit
Effective between the dates of 06/26/2025 and 06/25/2035

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 18.1:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-CARBR
 Process: 01A Source Classification Code: 3-90-006-99
 Process Description:
 The natural gas-fired activated carbon regeneration furnace receives spent activated carbon from off-site water treatment facilities for regeneration. The furnace is vented to a venturi scrubber followed by a 2-stage impingement scrubber with mist eliminator for particulate and acid gas control.

Emission Source/Control: IMPIN - Control
 Control Type: IMPINGEMENT PLATE SCRUBBER

Emission Source/Control: VENTS - Control
 Control Type: VENTURI SCRUBBER

Emission Source/Control: ACFR1 - Process

Item 18.2:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-CARBR
 Process: 01B Source Classification Code: 3-05-105-99
 Process Description:
 Spent carbon is trucked in sacks where it is off-loaded into a hopper system for the activated carbon regeneration furnace. Once the spent activated carbon has been regenerated, the product is directed to a bagger system to place the regenerated carbon sacks. These sacks are temporarily stored within the building until they are trucked off-site for commercial sale. The loading, unloading and general handling activities are vented to a fabric filter baghouse for particulate control and to atmosphere through emission point 00003.

Emission Source/Control: BAGH1 - Control
 Control Type: FABRIC FILTER

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Emission Source/Control: BAGA1 - Process

Emission Source/Control: UNLA1 - Process

Condition 19: Compliance Demonstration
Effective between the dates of 06/26/2025 and 06/25/2035

Applicable State Requirement: 6 NYCRR 212-1.6 (a)

Item 19.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-CARBR

Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES

Item 19.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

The carbon regeneration furnace and baghouse are subject to 6 NYCRR Part 212 – Process Operations. Under 6 NYCRR 212-1.6(a), these sources shall not be operated with greater than 20 percent opacity (based on a six-minute average). NYSDEC reserves the right to perform or require the performance of a Method 9 opacity evaluation at any time during facility operation.

The facility shall conduct a monthly visible emissions (VE) survey of the furnace stack and baghouse exhaust while operating. Normal operation of these processes should not result in visible emissions. If visible emissions are observed, corrective actions shall be taken to address the visible emissions. After corrective actions are complete, an additional visual observation of the emission point shall be made the following calendar day to see if visible emissions are still occurring. If visible emissions (other than condensing moisture or steam) are observed for 2 consecutive calendar days, a Method 9 test shall be conducted within the next operating day of the sources associated with the potential noncompliance to determine the degree of opacity. The facility shall notify NYSDEC if the Method 9 test indicates that the opacity standard is not met.

Records of visible emissions observations (or any follow-up Method 9 tests), investigations and corrective actions will be kept on-site in a bound logbook and include the date, time, observer's name, weather

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conditions and a description of the observations (steam, visible emissions, etc.). These records shall be kept on site for a period of 5 years from the date of the last entry. Should NYSDEC determine that the record keeping format is inadequate to demonstrate compliance, it shall provide written notice stating the inadequacies, the facility shall have 90 days to revise its prospective record keeping format in a manner acceptable to NYSDEC.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: EPA Method 9

Monitoring Frequency: MONTHLY

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 20: Compliance Demonstration**Effective between the dates of 06/26/2025 and 06/25/2035****Applicable State Requirement: 6 NYCRR 212-2.2****Item 20.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-CARBR

Item 20.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

High toxicity air contaminants (HTACs) may be emitted from the carbon regeneration process based on the source of the spent carbon. The facility demonstrated that all HTAC emissions were below the respective mass emission limits (MELs) established in Table 2 of 6 NYCRR Part 212-2.2 with emission calculations submitted to NYSDEC on May 19th, 2025.

To demonstrate ongoing compliance with the requirements of 6 NYCRR Part 212-2.2, the facility shall analyze any new sources of spent carbon before processing any carbon from that source. At a minimum, all new sources of spent carbon shall be analyzed for the concentrations of carbon tetrachloride, 1,2-dichloroethane, tetrachloroethylene, trichloroethylene, lead, mercury, arsenic, beryllium, cadmium, chromium, chromium VI, manganese, and nickel.

The facility shall maintain on-site records of the amount of spent carbon treated from each source and a representative analysis of incoming spent carbon from each

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source. The facility shall use these records to evaluate the actual emissions of each individual HTAC.

The facility shall maintain records of actual emissions of each HTAC compound to ensure the facility-wide actual annual emissions (based on calendar year) do not exceed the mass emission limit listed for the individual HTAC in Table 2 of 6 NYCRR Part 212-2.2. Actual HTAC emissions shall be calculated by totaling the amount of HTAC emissions from each carbon source. HTAC emissions from each carbon source shall be determined by using the most recent analysis of carbon from that source and the throughput of carbon from that source. These records shall be maintained on-site for five years from the latest entry and be made available to NYSDEC upon request.

NYSDEC reserves the right to require sampling of any incoming spent carbon.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

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