



PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air State Facility
Permit ID: 2-6403-00031/00033
Effective Date: 12/15/2016 Expiration Date: 12/14/2026

Permit Issued To: VANBRO CORPORATION
1900M SOUTH AVE
P O BOX 140721
STATEN ISLAND, NY 10314-3605

Contact: CORNELIUS VANDERBILT, JR
VANBRO CORPORATION
1900 SOUTH AVE
STATEN ISLAND, NY 10314
(718) 698-1100

Facility: VANBRO CORPORATION
1900 SOUTH AVE|B:1801, L:35,75
STATEN ISLAND, NY 10314-3605

Contact: CORNELIUS VANDERBILT, JR
VANBRO CORPORATION
1900 SOUTH AVE
STATEN ISLAND, NY 10314
(718) 698-1100

Description:

Vanbro Corporation is located at 1900 South Ave in Staten Island, New York. The facility is approximately 50 acres and is bordered by wetlands to the north, Prall's River to the east and commercial properties to the south and west.

The primary activity at the facility is to manufacture and produce asphalt, along with concrete and rock crushing operations. The facility produces and supplies hot-mix asphalt, ready-mix concrete, and aggregate. Raw materials, such as cement, sand, aggregate and recycled concrete and asphalt are off-loaded from barges and trucks. The material is transferred to various storage areas, including silos and bins. The recycled concrete, asphalt and aggregate are crushed, screened, sorted and stored on-site. To produce the hot mix asphalt the aggregate that has been sorted, weighed and dried is mixed with liquid asphalt cement. To produce the ready-mixed concrete, sand, aggregate and cement are mixed. If requested by the customer, water is added to the cement mixture to produce "plastic" cement. The hot mix asphalt, dry cement mix and plastic cement are loaded onto trucks and hauled to construction sites. Other activities at the facility include internal combustion engines, which are used to power various operations at the facility such as the crushers and conveyors. The recycled asphalt will come from residential driveways, commercial parking lots and entrances, and NYC streets.

The Vanbro Corporation proposes to modify the existing Air State Facility permit to add one 795 kW diesel engine generator, in addition to using one 1500 kW diesel engine as main source



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engine. The 400 kW diesel engine generator will now operate as an emergency generator only (operated no more than 500 hours per year).

The asphalt production rate is 200 tons of asphalt per hour.
The asphalt annual production limit is 350,000 tons per year.

The annual facility nitrogen oxides (NOx) emissions are limited to 24.9 tons per year.

Records demonstrating compliance with these caps will be kept in accordance with the permit special conditions.

The facility is subject to the provisions of State Facility requirements specified under 6NYCRR 201-7.

The Air State Facility permit contains a listing of the applicable federal, state, and compliance monitoring requirements for the facility.

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: STEPHEN A WATTS
 47-40 21ST ST
 LONG ISLAND CITY, NY 11101-5401

Authorized Signature: _____ Date: ____ / ____ / _____



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.



LIST OF CONDITIONS

DEC GENERAL CONDITIONS

General Provisions

- Facility Inspection by the Department
- Relationship of this Permit to Other Department Orders and Determinations
- Applications for permit renewals, modifications and transfers
- Permit modifications, suspensions or revocations by the Department

Facility Level

- Submission of application for permit modification or renewal -
REGION 2 HEADQUARTERS



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.



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 2
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 2 Headquarters
Division of Environmental Permits
1 Hunters Point Plaza, 4740 21st Street
Long Island City, NY 11101-5407
(718) 482-4997

New York State Department of Environmental Conservation

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Permit Under the Environmental Conservation Law (ECL)

**ARTICLE 19: AIR POLLUTION CONTROL - AIR STATE FACILITY
PERMIT**

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Facility: VANBRO CORPORATION
1900 SOUTH AVE|B:1801, L:35,75
STATEN ISLAND, NY 10314-3605

Authorized Activity By Standard Industrial Classification Code:
2951 - PAVING MIXTURES AND BLOCKS
3273 - READY-MIXED CONCRETE
3295 - MINERALS, GROUND OR TREATED

Permit Effective Date: 12/15/2016

Permit Expiration Date: 12/14/2026



LIST OF CONDITIONS

FEDERALLY ENFORCEABLE CONDITIONS

Facility Level

- 1 6 NYCRR 202-1.1: Required Emissions Tests
- 2 6 NYCRR Subpart 201-7: Facility Permissible Emissions
- *3 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- 4 6 NYCRR 202-1.2: Notification
- 5 6 NYCRR 202-1.3: Acceptable procedures
- 6 6 NYCRR 211.1: Air pollution prohibited
- 7 6 NYCRR 225-1.2 (g): Compliance Demonstration
- 8 6 NYCRR 225-1.2 (h): Compliance Demonstration
- 9 6 NYCRR 225-1.6 (f): Compliance Demonstration
- 10 6 NYCRR 227-1.3 (a): Compliance Demonstration
- 11 40CFR 60, NSPS Subpart IIII: Compliance and Enforcement
- 12 40CFR 63, Subpart ZZZZ: Compliance and Enforcement

Emission Unit Level

EU=U-ASPHT

- 13 6 NYCRR 202-1.1: Required emission tests
- 14 6 NYCRR 212-1.6 (a): Compliance Demonstration
- 15 6 NYCRR 212-4.1 (a) (1): Compliance Demonstration
- 16 6 NYCRR 212-4.1 (a) (2): Compliance Demonstration
- 17 6 NYCRR 212-4.1 (b): Compliance Demonstration
- 18 40CFR 60.92(a)(2), NSPS Subpart I: Compliance Demonstration

EU=U-ASPHT,EP=AS001

- 19 40CFR 60.92(a)(1), NSPS Subpart I: Compliance Demonstration

STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

- 20 ECL 19-0301: Contaminant List
- 21 6 NYCRR 201-1.4: Malfunctions and start-up/shutdown activities
- 22 6 NYCRR Subpart 201-5: Emission Unit Definition
- 23 6 NYCRR 201-5.2 (c): Renewal deadlines for state facility permits
- 24 6 NYCRR 201-5.3 (c): Compliance Demonstration
- 25 6 NYCRR 211.2: Visible Emissions Limited

Emission Unit Level

- 26 6 NYCRR Subpart 201-5: Emission Point Definition By Emission Unit
- 27 6 NYCRR Subpart 201-5: Process Definition By Emission Unit

NOTE: * preceding the condition number indicates capping.



FEDERALLY ENFORCEABLE CONDITIONS

****** 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,



required to operate such device effectively.

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

If an existing emission source was subject to the permitting requirements of 6 NYCRR Part 201 at the time of construction or modification, and the owner and/or operator failed to apply for a permit for such emission source then the following provisions apply:

(a) The owner and/or operator must apply for a permit for such emission source or register the facility in accordance with the provisions of Part 201.

(b) The emission source or facility is subject to all regulations that were applicable to it at the time of construction or modification and any subsequent requirements applicable to existing sources or facilities.

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



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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otherwise be subject to:

6 NYCRR Subpart 201-6

6 NYCRR Subpart 231-2

Item 3.2:

Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

Item 3.3:

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.

Item 3.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 3.5:

The emission of pollutants that exceed the applicability thresholds for an applicable requirement, for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of the Act.

Item 3.6:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 3.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

The NO_x (oxides of nitrogen) emissions are capped at 24.9 tons per year.

The owner or operator shall maintain a record of the quantity of hot mix asphalt produced at the facility, and a record of the quantity of each fuel fired at the facility. Also, the owner or operator shall calculate (based on the asphalt produced and fuel fired) using the following formula:

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$a1 \times 0.025 + a2 \times 0.12 + e1(0.44) + e2(0.6) + e3(0.11) < 49,800$ lbs/yr of Oxides of Nitrogen emissions.

Where:

a1 - 12-month rolling total production rate of HMA produced (when burning natural gas), in tons per year
0.025 lb/ton of NOx - AP-42 emission factor for batch mix asphalt plant firing natural gas (AP-42 Table 11.1-5);

a2 - 12-month rolling total production rate of HMA produced (when burning No. 2 fuel oil), in tons per year
0.12 lb/ton of NOx - AP-42 emission factor for batch mix asphalt plant firing No. 2 fuel oil (AP-42 Table 11.1-5);

e1 = 12-month rolling total of diesel fuel fired in large engines (1500 kW engine), in gal/yr
0.44 lb/gal - AP-42, Table 3.4-1, NOx emission factor = 3.2 lb/mmBtu (0.44 lb/gal);

e2 = 12-month rolling total of diesel fuel fired in small engines (400 kW engine), in gal/yr
0.6 lb/gal - AP-42, Table 3.3-1, NOx emission factor = 4.41 lb/mmBtu (0.6 lb/gal);

e3 = 12-month rolling total of diesel fuel fired in 2011 model year engine (795 kW engine), in gal/yr
0.11 lb/gal - 40CFR 1039.102 (Table 7), NOx emission standard = 3.5 g/kW.hr.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 49800 pounds per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

Subsequent reports are due every 12 calendar month(s).

Condition 4: Notification

Effective between the dates of 12/15/2016 and 12/14/2026

Applicable Federal Requirement: 6 NYCRR 202-1.2

Item 4.1:

A person who is required by the commissioner to submit a stack test report shall notify the commissioner, in writing, not less than 30 days prior to the test, of the time and date of the test.

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Such notification shall also include the acceptable procedures to be used to stack test including sampling and analytical procedures. Such person shall allow the commissioner, or his representative, free access to observe stack testing being conducted by such person.

Condition 5: Acceptable procedures
Effective between the dates of 12/15/2016 and 12/14/2026

Applicable Federal Requirement:6 NYCRR 202-1.3

Item 5.1:

Emission testing, sampling, and analytical determinations to ascertain compliance with this Subpart shall be conducted in accordance with test methods acceptable to the commissioner.

Condition 6: Air pollution prohibited
Effective between the dates of 12/15/2016 and 12/14/2026

Applicable Federal Requirement:6 NYCRR 211.1

Item 6.1:

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. 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 7: Compliance Demonstration
Effective between the dates of 12/15/2016 and 12/14/2026

Applicable Federal Requirement:6 NYCRR 225-1.2 (g)

Item 7.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 7.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Owners and/or operators of a stationary combustion installation that fires distillate oil other than number two heating oil are limited to the purchase of distillate oil with 0.0015 percent sulfur by weight or less on or after July 1, 2014. Compliance with this limit will be based on vendor certifications.

Data collected pursuant to this Subpart must be tabulated and summarized in a form acceptable to the Department, and must be retained for at least five years. The owner of a

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TIME (INSTANTANEOUS/DISCRETE OR GRAB)
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 9: Compliance Demonstration
Effective between the dates of 12/15/2016 and 12/14/2026

Applicable Federal Requirement:6 NYCRR 225-1.6 (f)

Item 9.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 9.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Facility owners subject to this Subpart must submit a written report of the fuel sulfur content exceeding the applicable sulfur-in-fuel limitation, measured emissions exceeding the applicable sulfur-in-fuel limitation, measured emissions exceeding the applicable equivalent emission rate, and the nature and cause of such exceedances if known, for each calendar quarter, within 30 days after the end of any quarterly period in which an exceedance takes place.

Data collected pursuant to this Subpart must be tabulated and summarized in a form acceptable to the Department, and must be retained for at least five years. The owner of a Title V facility must furnish to the Department such records and summaries, on a semiannual calendar basis, within 30 days after the end of the semiannual period. All other facility owners or distributors must submit these records and summaries upon request of the Department.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 10: Compliance Demonstration
Effective between the dates of 12/15/2016 and 12/14/2026

Applicable Federal Requirement:6 NYCRR 227-1.3 (a)

Item 10.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 10.2:

Compliance Demonstration shall include the following monitoring:



**** Emission Unit Level ****

Condition 13: Required emission tests
Effective between the dates of 12/15/2016 and 12/14/2026

Applicable Federal Requirement:6 NYCRR 202-1.1

Item 13.1:
This Condition applies to Emission Unit: U-ASPHT

Item 13.2:
An acceptable report of measured emissions shall be submitted, if requested by the commissioner, to ascertain compliance or noncompliance with any air pollution code, rule, or regulation.

Condition 14: Compliance Demonstration
Effective between the dates of 12/15/2016 and 12/14/2026

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

Item 14.1:
The Compliance Demonstration activity will be performed for:

Emission Unit: U-ASPHT

Item 14.2:
Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

No facility owner or operator shall cause or allow emissions having an average opacity during any six consecutive minutes of 20 percent or greater from any process emission source or emission point, except for the emission of uncombined water.

Parameter Monitored: OPACITY
Upper Permit Limit: 20 percent
Reference Test Method: Method 9
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION
Averaging Method: 6-MINUTE AVERAGE (METHOD 9)
Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 15: Compliance Demonstration

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Applicable Federal Requirement:6 NYCRR 212-4.1 (a) (1)

Item 15.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-ASPHT

Item 15.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

A tune-up must be performed on the dryer burner on an annual basis at any hot mix asphalt production plant that is in operation during that calendar year.

Monitoring Frequency: ANNUALLY

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 16: Compliance Demonstration

Effective between the dates of 12/15/2016 and 12/14/2026

Applicable Federal Requirement:6 NYCRR 212-4.1 (a) (2)

Item 16.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-ASPHT

Item 16.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility must have a plan which details the introduction or continuation of methods by which to reduce the moisture content of the aggregate stockpile(s). The facility shall perform self-inspections to monitor compliance with the plan.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 17: Compliance Demonstration

Effective between the dates of 12/15/2016 and 12/14/2026



Applicable Federal Requirement:6 NYCRR 212-4.1 (b)

Item 17.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-ASPHT

Item 17.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

(1) When the burner is to be replaced, and a low NOx burner is not the unit of choice, the owner or operator of a hot mix asphalt plant must provide the Department with an economic feasibility analysis that justifies their decision. The economic analysis must follow an approach acceptable to the Department.

(2) By January 1, 2020, all owners or operators of active plants which have not installed a low NOx burner must have submitted an economic feasibility analysis. A low NOx burner must be installed for that operating year in all instances in which it proves feasible.

(3) Hot mix asphalt production plants which are in a state of inactivity on January 1, 2020, and have not otherwise complied with the requirements of this subdivision by that date must do so prior to continued operation.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Condition 18: Compliance Demonstration
Effective between the dates of 12/15/2016 and 12/14/2026**

Applicable Federal Requirement:40CFR 60.92(a)(2), NSPS Subpart I

Item 18.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-ASPHT

Item 18.2:

Compliance Demonstration shall include the following monitoring:

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

New York State Department of Environmental Conservation

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Facility DEC ID: 2640300031



Monitoring Description:

No person shall cause or allow emissions having an average opacity during any six consecutive minutes of 20 percent or greater. Performance testing to demonstrate the compliance status of this emission source shall be performed at the monitoring frequency shown below.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: EPA RM 9

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 19: Compliance Demonstration
Effective between the dates of 12/15/2016 and 12/14/2026

Applicable Federal Requirement:40CFR 60.92(a)(1), NSPS Subpart I

Item 19.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-ASPHT

Emission Point: AS001

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 19.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Emissions of solid particulates are limited to less than 0.04 (90 mg/dscm) grains of particulates per cubic foot of exhaust gas, expressed at standard conditions on a dry gas basis.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.04 grains per dscf

Reference Test Method: EPA Method 5

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY



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 by 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 be demonstrated 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 permitted facility causing the emergency was at the time being properly operated and maintained;

(3) During the period of the emergency the facility owner or operator took all reasonable steps to minimize 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 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 upset 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 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 20: Contaminant List
Effective between the dates of 12/15/2016 and 12/14/2026

Applicable State Requirement:ECL 19-0301

Item 20.1:

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

CAS No: 0NY075-00-0
Name: PARTICULATES

CAS No: 0NY210-00-0
Name: OXIDES OF NITROGEN

Condition 21: Malfunctions and start-up/shutdown activities
Effective between the dates of 12/15/2016 and 12/14/2026

Applicable State Requirement:6 NYCRR 201-1.4



Item 21.1:

(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 malfunctions, maintenance, or start-up/shutdown activities when they can be expected to result in an exceedance of any applicable emission standard, and shall submit a report of such activities to the department when requested to do so, or when so required by a condition of a permit issued for the corresponding air contamination source. Such reports shall state whether any violations occurred and, if so, whether they were unavoidable, include the time, frequency and duration of the maintenance and/or start-up/shutdown activities, 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 stack monitoring and quarterly reporting requirements need not submit additional reports for equipment maintenance or start-up/shutdown activities for the facility to the department.

(c) In the event that emissions of air contaminants in excess of any emission standard in this Subchapter occur due to a malfunction, the facility owner or operator shall compile and maintain records of the malfunction and 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. 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, identification of air contaminants, and an estimate of the emission rates.

(d) The department may also require the 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 22: Emission Unit Definition
Effective between the dates of 12/15/2016 and 12/14/2026

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 22.1:

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

Emission Unit: U-ASPHT

Emission Unit Description:

Emission unit represents a batch mix hot mix asphalt plant capable of maximum production of 200 tons per hour of asphalt. The hot mix batch plant consists of A ESO/G 100 HAUCK manufacturing low NOx burner capable of firing

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natural gas (primary fuel) or distillate oil. The facility also includes elevated storage bins, weigh hoppers, an ULTRA MAX 50000-05 portable three-in-one recycle plant, above ground storage tanks and associated conveyor system.

Item 22.2:

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

Emission Unit: U-GENER

Emission Unit Description:

This emission unit represents the two internal combustion engines utilized at the facility: a 1,500 kW diesel Cummins/Onan engine and 795 kW diesel fired Caterpillar C27 engine. A third engine generator, a 400 kW diesel fuel fired engine is utilized as an emergency generator and is operated no more than 500 hours per year.

**Condition 23: Renewal deadlines for state facility permits
Effective between the dates of 12/15/2016 and 12/14/2026**

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

Item 23.1:

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 24: Compliance Demonstration
Effective between the dates of 12/15/2016 and 12/14/2026**

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

Item 24.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 24.2:

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 2
47-40 21st St.
Long Island City, NY 11101

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

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DESCRIPTION
Averaging Method: AVERAGING METHOD - SEE MONITORING
DESCRIPTION
Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 25: Visible Emissions Limited
Effective between the dates of 12/15/2016 and 12/14/2026

Applicable State Requirement:6 NYCRR 211.2

Item 25.1:

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 26: Emission Point Definition By Emission Unit
Effective between the dates of 12/15/2016 and 12/14/2026

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 26.1:

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

Emission Unit: U-ASPHT

Emission Point: AS001

Height (ft.): 30

Diameter (in.): 48

NYTMN (km.): 4495.2

NYTME (km.): 568.1

Item 26.2:

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

Emission Unit: U-GENER

Emission Point: 00795

Height (ft.): 10

Diameter (in.): 6

NYTMN (km.): 4495.2

NYTME (km.): 568.1

Emission Point: 01500

Height (ft.): 30

Diameter (in.): 14

NYTMN (km.): 4495.2

NYTME (km.): 568.1

Condition 27: Process Definition By Emission Unit
Effective between the dates of 12/15/2016 and 12/14/2026

Applicable State Requirement:6 NYCRR Subpart 201-5



Item 27.1:

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

Emission Unit: U-ASPHT

Process: GAA

Source Classification Code: 3-05-002-06

Process Description:

Natural gas used for hot mix asphalt batch plant. The hot mix asphalt paving material is produced by combining liquid asphalt cement with various sized aggregate and recycled asphalt pavement. The aggregate and recycled asphalt pavement is stored in various stockpiles on-site. The liquid asphalt cement is stored in heated above ground storage tanks. The aggregate is transferred from the stockpiles to the appropriate bins by conveyor. From the storage bins the aggregate material is placed onto the conveyor and transported to the rotary dryer. The aggregate is dried and transported to the mixer where the dried aggregate is mixed with the liquid asphalt cement. The hot-mix paving material asphalt is transferred to the storage silos or loaded onto trucks and taken to the construction site.

Emission Source/Control: HAUCK - Combustion

Design Capacity: 100 million Btu per hour

Emission Source/Control: ASBAG - Control

Control Type: FABRIC FILTER

Item 27.2:

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

Emission Unit: U-ASPHT

Process: OIA

Source Classification Code: 3-05-002-08

Process Description:

Distillate oil used for hot mix asphalt batch plant. The hot mix asphalt paving material is produced by combining liquid asphalt cement with various sized aggregate and recycled asphalt pavement. The aggregate and recycled asphalt pavement is stored in various areas on-site. The liquid asphalt cement is stored in heated above ground storage tanks. The aggregate is transferred from the various areas to the appropriate bins by conveyor. From the storage bins the aggregate material is placed onto the conveyor and transported to the rotary dryer. The aggregate is dried and transported to the mixer where the dried aggregate is mixed with the liquid asphalt cement. The hot-mix asphalt paving material is transferred to the storage silos or loaded onto trucks and taken to the construction site.

Emission Source/Control: HAUCK - Combustion

Design Capacity: 100 million Btu per hour

