

PERMIT NO. 1423-777-0182-B-01-0
ISSUANCE DATE: 12/13/2018



GEORGIA

DEPARTMENT OF NATURAL RESOURCES

ENVIRONMENTAL PROTECTION DIVISION

Air Quality Permit

In accordance with the provisions of the Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq and the Rules, Chapter 391-3-1, adopted pursuant to and in effect under that Act,

Facility Name: C&H Paving, Inc. - Statewide Portable Crushing Plant #1
Facility Address: Mobile Crushing Facility Statewide (See Permit Condition 7.1)
Mailing Address: 204 Main Street
Thomson, Georgia 30824
Facility AIRS Number: 04-13-777-00182

is issued a Permit for the following:

The operation of a mobile nonmetallic mineral crushing plant consisting of a 330 tons per hour (TPH) portable jaw crusher and associated feeders, conveyors, other material handling equipment, and air pollution control systems.

This Permit is conditioned upon compliance with all provisions of The Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq, the Rules, Chapter 391-3-1, adopted and in effect under that Act, or any other condition of this Permit.

This Permit may be subject to revocation, suspension, modification or amendment by the Director for cause including evidence of noncompliance with any of the above; or for any misrepresentation made in Application No. 26767 dated October 11, 2018; any other applications upon which this Permit is based; supporting data entered therein or attached thereto; or any subsequent submittals or supporting data; or for any alterations affecting the emissions from this source.

This Permit is further subject to and conditioned upon the terms, conditions, limitations, standards, or schedules contained in or specified on the attached 9 pages.



[Signed]

Richard E. Dunn, Director
Environmental Protection Division

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1. General Requirements

- 1.1 At all times, including periods of startup, shutdown, and malfunction, the Permittee shall maintain and operate this source, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Division which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection or surveillance of the source.
- 1.2 The Permittee shall not build, erect, install or use any article, machine, equipment or process the use of which conceals an emission which would otherwise constitute a violation of an applicable emission standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard that is based on the concentration of a pollutant in the gases discharged into the atmosphere.
- 1.3 The Permittee shall submit a Georgia Air Quality Permit application to the Division prior to the commencement of any modification, as defined in 391-3-1-.01(pp), which may result in air pollution and which is not exempt under 391-3-1-.03(6). Such application shall be submitted sufficiently in advance of any critical date involved to allow adequate time for review, discussion, or revision of plans, if necessary. The application shall include, but not be limited to, information describing the precise nature of the change, modifications to any emission control system, production capacity and pollutant emission rates of the plant before and after the change, and the anticipated completion date of the change.
- 1.4 Unless otherwise specified, all records required to be maintained by this Permit shall be recorded in a permanent form suitable for inspection and submission to the Division and shall be retained for at least five (5) years following the date of entry.
- 1.5 In cases where conditions of this Permit conflict with each other for any particular source or operation, the most stringent condition shall prevail.

2. Allowable Emissions

- 2.1 Except as may be specified in other rules of Georgia Air Quality Control Rule 391-3-1-.02, the Permittee shall comply with the provisions of Georgia Air Quality Control Rule 391-3-1-.02(2)(e), "*Particulate Emissions from Manufacturing Processes*". The Permittee shall not cause, let, suffer, permit, or allow the emission from any source, particulate matters (PM) in total quantities equal to or exceeding the allowable rate as calculated using the applicable equation below, unless otherwise specified in this Permit:

[391-3-1-.02(2)(e)]

- a. For equipment in operation or extensively altered after July 2, 1968:

- i. $E = 4.1P^{0.67}$, for process input weight rate up to and including 30 tons per hour;

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ii. $E = 55P^{0.11} - 40$, for process input weight rate in excess of 30 tons per hour.

b. For equipment in operation or under construction contract on or before July 2, 1968:

$$E = 4.1P^{0.67}$$

Where:

E = allowable emission rate in pounds per hour;

P = process input weight rate in tons per hour.

2.2 The Permittee shall not discharge, or cause the discharge, into the atmosphere from any process units at this facility, any visible emissions which exhibit opacity equal to or greater than forty (40) percent.

[391-3-1-.02(2)(b)]

2.3 The Permittee shall comply with the applicable provisions of 40 CFR, Part 60 Subpart OOO, “Standards of Performance of Nonmetallic Mineral Processing Plants” as amended on April 28, 2009 for all subject equipment when this facility processes any “nonmetallic minerals” as specified in 40 CFR 60.671. In particular, the Permittee shall not discharge, or cause the discharge, into the atmosphere,

a. from any crusher, at which a capture system is not used, any fugitive emissions, which exhibit greater than 15 percent opacity. For crushers constructed, modified or reconstructed on or after April 22, 2008 the opacity limit is 12 percent.

b. from any screening operation, belt conveyor transfer point, bagging operation, storage bin, enclosed truck or railcar loading station, or from any other affected facility any fugitive emissions, which exhibit greater than 10 percent opacity. For affected facilities constructed, modified or reconstructed on or after April 22, 2008 the opacity limit is 7 percent.

Note: Truck dumping of nonmetallic minerals into any screening operation, feed hopper, or crusher is exempt from the requirements of this condition.

3. Fugitive Emissions

3.1 The Permittee shall take all reasonable precautions to prevent fugitive dust from becoming airborne from any operation, process, handling, and transportation or storage facility. The opacity from any fugitive dust source shall not equal or exceed twenty percent. Reasonable precautions that should be taken to prevent dust from becoming airborne include, but are not limited to, the following:

[391-3-1-.02(2)(n)] [Vault GA-003-EL, 02/10]

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- a. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads or the clearing of land;
 - b. Application of asphalt, water, or suitable chemicals on dirt roads, materials, stockpiles, and other surfaces that can give rise to airborne dusts;
 - c. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty materials. Adequate containment methods can be employed during sandblasting or other similar operations;
 - d. Covering, at all times when in motion, open-bodied trucks, transporting materials likely to give rise to airborne dust; and
 - e. The prompt removal of earth or other material from paved streets onto which earth or other material has been deposited.
- 3.2 The Permittee shall have, maintain and use at all times the crushing plant and/or the screening plant are operating a water-spray control system(s), except during natural wet conditions. The Permittee shall only operate the crushing plant and/or the screening plant when there is sufficient water and water pressure to adequately supply the dust control devices specified.
[391-3-1-.02(2)(n)]
- 3.3 Fugitive dust from any operation, process, handling, transportation or storage facility shall not equal or exceed 20% opacity.
[391-3-1-.02(2)(n)]
- 3.4 The Permittee shall take whatever steps are necessary to encourage drivers of trucks carrying dusty materials on or off property to use cover adequate to prevent dust emissions and to take steps to assure that the truck bodies are not covered with dust when leaving plant property.
[391-3-1-.02(2)(n)]

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4. Process & Control Equipment

4.1 Routine maintenance shall be performed on all air pollution control equipment. Maintenance records shall be in a form suitable for inspection or submittal to the Division and shall be maintained for a period of five (5) years from date of entry.

[391-3-1-.02(6)(b)1 and 391-3-1-.03(2)(c)]

4.2 The Permittee shall maintain a critical spare parts inventory for all control equipment. Critical spare parts include those which are most probable to fail under normal operating conditions of the control equipment and which can be practically inventoried and installed by the Permittee.

[391-3-1-.02(6)(b)1 and 391-3-1-.03(2)(c)]

5. Monitoring

5.1 The Permittee shall perform the following daily operation and maintenance checks on each water spray system. The inspection shall be conducted at least once per each day of operation. If a device is found to be operating improperly, or in a manner inconsistent with the following criteria, a description of the corrective actions taken shall be recorded. A daily record of the conditions found and any corrective actions taken shall be retained for at least five years following the date of such record (a checklist or other similar log may be used for this purpose). The records shall be recorded in a permanent form which is suitable and available for inspection by the Division.

[391-3-1-.02(6)(b)1 and 391-3-1-.03(2)(c)]

a. Visually inspect water sprays to ensure that the designed nozzle water spray pattern is produced (i.e. - a fine, conical mist).

b. Check water sprays to ensure that they are properly directed.

c. Check nozzles to ensure none are clogged, and that there is proper and adequate water flow sufficient to wet the surface area of the material

6. Performance Testing

6.1 The Permittee shall cause to be conducted a performance test at any specified emission point when so directed by the Division. The following provisions shall apply with regard to such tests:

a. All tests shall be conducted and data reduced in accordance with applicable procedures and methods specified in the Division's Procedures for Testing and Monitoring Sources of Air Pollutants.

b. All test results shall be submitted to the Division within sixty (60) days of the completion of testing.

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- c. The Permittee shall provide the Division thirty (30) days prior written notice of the date of any performance test(s) to afford the Division the opportunity to witness and/or audit the test, and shall provide with the notification a test plan in accordance with Division guidelines.
 - d. All monitoring systems and/or monitoring devices required by the Division shall be installed, calibrated and operational prior to conducting any performance test(s). For any performance test, the Permittee shall, using the monitoring systems and/or monitoring devices, acquire data during each performance test run. All monitoring system and/or monitoring device data acquired during the performance testing shall be submitted with the performance test results.
- 6.2 In accordance with the provisions of 40 CFR 60.8, for any equipment constructed or modified at the facility, the Permittee shall conduct a performance test within 60 days after achieving the maximum production rate at which the equipment will be operated, but no later than 180 days after initial startup, unless the equipment is specifically exempt from testing in the applicable subpart of 40 CFR Part 60. The tests shall be conducted using the test methods and procedures as specified in the applicable subpart of 40 CFR Part 60.
[40 CFR 60.8 and 40 CFR 60.675]
- 6.3 In accordance with 40 CFR 60.11 and 40 CFR 60.675 a repeat test shall be performed within five (5) years from the previous performance test for fugitive emissions from an affected facility without water sprays when this mobile facility processes any “nonmetallic minerals” as specified in 40 CFR 60.671. Affected facilities controlled by water carryover from upstream water sprays that are inspected according to the requirements in 40 CFR 60.674(b) and 60.676(b) are exempt from this 5 year repeat testing requirement.
[40 CFR 60.11 and 40 CFR 60.675]

7. Notification, Reporting and Record Keeping Requirements

- 7.1 The Permittee shall furnish the Division advance written notification each time this mobile facility is located or relocated within the State of Georgia, not less than 5 business days prior to startup at the new location. The notification shall include the following information: the new location, the anticipated date of startup, the expected period of time the plant will remain at the new location, a description of the crushing required at the new location, and a map with sufficient information to allow Division personnel to locate the plant for inspection. When the anticipated period of operation at a new location is greater than 180 days, the Permittee shall provide an explanation of how the crushing activity may or may not be considered as part of a quarry operation.
[40 CFR 60.7(a)(3)]

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8. Modification

8.1 The Permittee shall give written notification to the Division when there is any modification to this source. This notice shall be submitted sufficiently in advance of any critical date involved to allow sufficient time for review, discussion and revision of plans, if necessary. Such notice shall include, but not to be limited to, information describing the precise nature of the change, modifications to any emission control system, production capacity and pollutant emission rates of the plant before and after the change and a completed application for any modification not exempted under paragraph 391-3-1-.03(6) of the Georgia Rules for Air Quality Control.

8.2 The Permittee shall comply with the detailed reporting and recordkeeping provisions of 40 CFR, Part 60, Subpart OOO, "*Standards of Performance for Nonmetallic Mineral Processing Plants*" when replacing existing equipment with a new piece of equipment of equal or smaller size that has the same function. The new equipment used to replace the existing equipment is deferred from having to comply with the NSPS emission limits and testing requirements until all of the existing equipment in a production line has been replaced. The Permittee shall submit the following information about the existing equipment being replaced and the replacement piece of equipment:

[40 CFR 60.670(d) and 60.676(a)]

- a. For a crusher, grinding mill, bucket elevator, bagging operation, or enclosed truck or railcar loading station:
 - i. the rated capacity in tons per hour of the existing equipment being replaced and
 - ii. the rated capacity in tons per hour of the replacement equipment.
- b. For a screening operation:
 - i. the total surface area of the top screen of the existing screening operation being replaced and
 - ii. the total surface area of the top screen of the replacement screening operation.
- c. For a conveyor belt:
 - i. the width of the existing belt being replaced and
 - ii. the width of the replacement conveyor belt.
- d. For a storage bin:
 - i. the rated capacity in tons of the existing storage bin being replaced and

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- ii. the rated capacity in tons of replacement storage bin.
- e. For all equipment being replaced in accordance with this condition, the Permittee shall provide a certification that the equipment being replaced is existing equipment with a statement of the original construction date for each piece of equipment being replaced. The Permittee shall provide a certification that there is at least one piece of existing equipment in the relevant production line that has not been replaced along with a statement of the oldest piece of existing equipment remaining in that process line.
- f. When the last piece of existing equipment in the process line is replaced, the Permittee shall submit a test plan identifying all of the existing equipment within that process line, which has been replaced within 30 days after the final replacement.

For this condition, “existing equipment” is any crusher, grinding mill, screening operation, bucket elevator, belt conveyor bagging operation, storage bin, enclosed truck or railcar loading station constructed on or before August 31, 1983, which has not been modified as described in 40 CFR 60.14 or reconstructed as described in 40 CFR 60.673 and 40 CFR 60.15.

- 8.3 The Permittee may make minor modifications and/or additions that are not addressed or prohibited by this Permit, which will automatically be covered by this permit, provided the following requirements are met:

[391-3-1-.03(6) and 391-3-1-.03(10)(b)5(i) and 40 CFR 60.670(d)(1)]

- a. The process is similar in function and has control system similar to permitted equipment already on site (e.g. storage bin with baghouse).
- b. The change is otherwise exempt from State permit review requirements under Rule 391-3-1-.03(6).
- c. When calculating particulate matter PTE (Potential To Emit), NSPS (New Source Performance Standard) grain loading emission limits and/or emission factors from AP-42 [The U. S. EPA AP-42 document "Compilation of Air Pollutants Emissions Factors," as revised,] should be used whenever possible. In no event may a control efficiency greater in value than estimated by AP-42 for similar equipment be used in calculating potential emissions. Any process or control equipment assumed when calculating PTE must be installed and operated in a manner consistent with good operating practices, and any requirements of this permit relating to the type of equipment used.
- d. All applicable NSPS requirements as well as any special conditions of this permit for Testing, Monitoring, Notification and Record Keeping are met.

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- e. For each such change, the Permittee's written notification shall be submitted well in advance, but not less than seven (7) days in advance, of such change and shall include a brief description of the change within the permitted facility, the date on which the change is proposed to occur, an updated Section 3.1 and/or Attachment B, and calculations showing the combined particulate matter PTE increase for all cumulative modifications not covered by the existing permit reviewed by EPD. The Permittee shall maintain a copy of such notice at the facility and shall attach it to this Permit.

- f. Any control system assumed in calculating the combined particulate matter PTE increase shall become the minimum required control system and shall become a requirement of this Permit.

9. Special Conditions

- 9.1 At any time that the Division determines that additional control of emissions from the facility may reasonably be needed to provide for the continued protection of public health, safety and welfare, the Division reserves the right to amend the provisions of this Permit pursuant to the Division's authority as established in the Georgia Air Quality Act and the rules adopted pursuant to that Act.
[391-3-1-.03(3)]

- 9.2 The Permittee shall calculate and pay an annual Permit fee to the Division. The amount of the fee shall be determined each year in accordance with the "*Procedures for Calculating Air Permit Fees.*"
[391-3-1-.03(9)]

- 9.3 This Permit does not authorize collocation of this mobile nonmetallic mineral crushing plant at any quarry site.
[391-3-1-.02(4)]

- 9.4 The Permittee shall keep, at the permitted facility, the originals or complete copies of this Air Quality Permit and any subsequent Permit Amendments.

- 9.5 The Portable Crushing Plant shall not remain in one location for more than 12-consecutive months.

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**Table 1 – Equipment List
C&H Paving, Inc. - Statewide Portable Crushing Plant #1**

SOURCE	SOURCE CODE	Controls	NSPS APPLICABILITY
Portable Dump Hopper 1	PH1	None	YES
Portable Grizzly Feeder	PF1	Water Spray	YES
Portable Conveyor 1	PC1	None	YES
Portable Jaw Crusher	PJC1	Water Spray	YES
Portable Conveyor 2	PC2	Water Spray	YES
Portable Dump Hopper 2	PH2	Control Carry	YES
Portable Belt Feeder	PC3	Control Carry	YES
Portable Double Deck Screen	PS1	Control Carry	YES
Portable Conveyor 4	PC4	None	YES
Portable Conveyor 5	PC5	None	YES
Portable Conveyor 6	PC6	None	YES
Portable Conveyor 7	PC7	Water Spray	YES
Portable Dump Hopper 3	PH3	Control Carry	YES
Portable Belt Feeder	PC8	Control Carry	YES
Portable Cone Crusher 1	PCC1	Water Spray	YES
Portable Conveyor 9	PC9	Water Spray	YES
Portable Dump Hopper 4	PH4	Control Carry	YES
Portable Belt Feeder	PC10	Control Carry	YES
Portable Triple Deck Screen	PS2	Wet Process	YES
Portable Conveyor 11	PC11	Control Carry	YES
Portable Dump Hopper 5	PH5	Control Carry	YES
Portable Belt Feeder	PC12	Control Carry	YES
Portable Cone Crusher 2	PCC2	Water Spray	YES
Portable Conveyor 13	PC13	Water Spray	YES
Portable Conveyor 14	PC14	Wet Process	YES
Portable Sand Screw	PSS	Wet Process	YES
Portable Conveyor 15	PC15	Wet Process	YES
Portable Conveyor 16	PC16	Wet Process	YES
Portable Conveyor 17	PC17	Wet Process	YES