



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL  
HAMILTON COUNTY**

**CERTIFIED MAIL**

Street Address:

122 S. Front Street

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center  
P.O. Box 1049

**Application No: 14-05767**

**Fac ID: 1431474045**

**DATE: 10/25/2005**

Hanson Aggregates Davon Inc  
Todd Ernst  
5730 State Route 128  
Cleves, OH 45002

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission  
309 South Fourth Street, Room 222  
Columbus, Ohio 43215

Sincerely,

*Michael W. Ahern*

Michael W. Ahern, Manager  
Permit Issuance and Data Management Section  
Division of Air Pollution Control

CC: USEPA

HCDES



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**Permit To Install  
Terms and Conditions**

**Issue Date: 10/25/2005  
Effective Date: 10/25/2005**

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**FINAL PERMIT TO INSTALL 14-05767**

Application Number: 14-05767  
Facility ID: 1431474045  
Permit Fee: **\$1300**  
Name of Facility: Hanson Aggregates Davon Inc  
Person to Contact: Todd Ernst  
Address: 5730 State Route 128  
Cleves, OH 45002

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**7000 Dry Fork Rd  
Cleves, Ohio**

Description of proposed emissions unit(s):  
**Plant roadways and parking areas, aggregate storage piles and aggregate processing.**

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

## Part I - GENERAL TERMS AND CONDITIONS

### A. Permit to Install General Terms and Conditions

#### 1. Compliance Requirements

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

#### 2. Reporting Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or record keeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and record keeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

#### 3. Records Retention Requirements

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

#### 4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon

Hanson Aggregates Davon Inc  
PTI Application: 14-05767  
Issued: 10/25/2005

Facility ID: 1431474045

the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

**5. Scheduled Maintenance/Malfunction Reporting**

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

**6. Permit Transfers**

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

**7. Air Pollution Nuisance**

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

**8. Termination of Permit to Install**

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

**9. Construction of New Sources(s)**

**Hanson Aggregates Davon Inc**  
**PTI Application: 14-05767**  
**Issued: 10/25/2005**

**Facility ID: 1431474045**

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

#### **10. Public Disclosure**

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

#### **11. Applicability**

This Permit To Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

#### **12. Best Available Technology**

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

Hanson Aggregates Davon Inc  
 PTI Application: 14-05767  
 Issued: 10/25/2005

Facility ID: 1431474045

**13. Source Operation and Operating Permit Requirements After Completion of Construction**

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the emissions unit(s) covered by this permit.

**14. Construction Compliance Certification**

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

**15. Fees**

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

**B. Permit to Install Summary of Allowable Emissions**

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

**SUMMARY (for informational purposes only)  
 TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS**

<u>Pollutant</u>	<u>Tons Per Year</u>
PE	36.29
PM10	12.75

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	unpaved roadways and parking areas	<u>Applicable Rules/Requirements</u>
F001 - plant roadways and parking areas		
paved roadways and parking areas		OAC rule 3745-31-05(A)(3)
		OAC rule 3745-17-07 (B)
		OAC rule 3745-17-08(B)

Applicable Emissions  
Limitations/Control Measures

OAC rule 3745-31-05(A)(3)

Particulate emissions (PE) shall not exceed 3.96 tons per year (TPY) Particulate matter emissions 10 microns and less in diameter shall not exceed 0.77 TPY.

There shall be no visible PE except for one minute during any 60-minute period.

OAC rule 3745-17-07 (B)

The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-08(B).

OAC rule 3745-17-08(B)

The emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3).

best available control measures that are sufficient to minimize or eliminate visible PE of fugitive dust (See Sections A.I.2.a through A.I.2.f.)

Particulate emissions (PE) shall not exceed 12.37 tons per year (TPY) Particulate matter emissions 10 microns and less in diameter shall not exceed 3.42 TPY.

There shall be no visible PE except for 3 minutes during any 60-minute period.

The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-08(B).

The emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3).

best available control measures that are sufficient to minimize or eliminate visible PE of fugitive dust (See Sections A.I.2.a through A.I.2.f.)

## 2. Additional Terms and Conditions

- 2.a The paved and unpaved roadways that are covered by this permit and subject to the above-mentioned requirements are listed below:

paved and unpaved roadways:

all

- 2.b The permittee shall employ best available control measures on all paved and unpaved roadways for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the paved roadways by water flushing and the unpaved roadways by watering at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.c The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for a paved or unpaved roadway that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.
- 2.d The permittee shall promptly remove, in such a manner as to minimize or prevent resuspension, earth and/or other material from paved streets onto which such material has been deposited by trucking or earth moving equipment or erosion by water or other means.
- 2.e Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary for the materials being transported.
- 2.f Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the best available technology requirements of OAC rule 3745-31-05.

## B. Operational Restrictions

None

### C. Monitoring and/or Record keeping Requirements

1. Except as otherwise provided in this section, the permittee shall perform inspections of the paved and unpaved roadways in accordance with the following frequencies:

<u>paved and unpaved roadways:</u>	<u>minimum inspection frequency:</u>
all	daily

2. The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.
3. The permittee may, upon receipt of written approval from the Hamilton County Department of Environmental Services, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
4. The permittee shall maintain records of the following information:
  - a. The date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
  - b. The date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
  - c. The dates the control measures were implemented; and
  - d. On a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

The information required in 4.d shall be updated on a calendar quarter basis

within 30 days after the end of each calendar quarter.

#### D. Reporting Requirements

1. The permittee shall submit deviation reports that identify any of the following occurrences:
  - a. Each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
  - b. Each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.
2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

#### E. Testing Requirements

1. Compliance with the emissions limitation(s) in Section A.1 of these terms and conditions shall be determined in accordance with the following method(s):

Emissions Limitations:

3.96 tons PE/yr for paved roadways;  
 0.77 tons PM10/yr for paved roadways;  
 12.37 tons PE/yr for unpaved roadways; and  
 3.42 tons PM10/yr for unpaved roadways.

Applicable Compliance Method:

Particulate emissions shall be calculated and compliance determined using the following equations.

$$\text{tons PE/PM10/yr} = (A) \times (B) \times (1 - C) \times 1 \text{ ton}/2000 \text{ lbs}$$

where,

A = lb PE/PM10 per vehicle mile traveled, calculated from AP-42, Sections 13.2.1 and 13.2.2 (December, 2003).

B = total annual vehicle miles traveled, for paved or unpaved roadways.

C = control efficiency (0.80 for paved and unpaved roadways).

**Emissions Limitation:**

No visible PE except for one minute during any 60-minute period from paved roadways and parking areas.

**Applicable Compliance Method:**

If required, compliance with the visible PE limitation listed above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources").

**Emissions Limitation:**

No visible PE except for three minutes during any 60-minute period from unpaved roadways and parking areas.

**Applicable Compliance Method:**

If required, compliance with the visible PE limitation listed above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources").

**F. Miscellaneous Requirements**

1. The terms and conditions listed in this permit to install shall supersede all the air pollution control requirements contained in permit to install 14-04846 as issued on February 9, 2000.

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. Applicable Emissions Limitations and/or Control Requirements**

- The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F002 - load-in and load-out of storage piles, and wind erosion from storage piles	OAC rule 3745-31-05(A)(3)	Particulate emissions (PE) shall not exceed 10.46 tons per year (TPY.) Particulate matter emissions 10 microns and less in diameter shall not exceed 5.23 TPY.  No visible particulate emissions, except for a total of one minute, during any 60 minute observation period.  Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see terms and conditions A.2.b - A.2.d)
	OAC rule 3745-17-07(B)(6)	See term and condition B.1
	OAC rule 3745-17-08(B)	The emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3).  The emissions limitation specified

by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3).

## **2. Additional Terms and Conditions**

- 2.a** The storage piles that are covered by this permit and subject to the above-mentioned requirements are listed below:

All

- 2.b** The permittee shall employ best available control measures on all load-in and load-out operations associated with the storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to maintain minimal drop heights for the stackers and front-loaders and utilize wet suppression at sufficient treatment frequencies in order to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.c** The permittee shall employ best available control measures for wind erosion from the surfaces of all storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee shall maintain the material's moisture content in order to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.d** The above-mentioned control measure(s) shall be employed for wind erosion from each pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Implementation of the control measure(s) shall not be necessary for a storage pile that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements.
- 2.e** Compliance with the emissions and opacity limitations and the annual production limitation in term and condition B.1, and implementation of the above-mentioned

control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05(A)(3).

**B. Operational Restrictions**

- 1. The maximum annual sand and gravel throughput for this emissions unit shall not exceed 1,500,000 tons per year.

**C. Monitoring and/or Record keeping Requirements**

- 1. Except as otherwise provided in this section, the permittee shall perform inspections of each load-in operation at each storage pile in accordance with the following frequencies:

<u>storage pile identification</u>	<u>minimum load-in inspection frequency</u>
all	daily

- 2. Except as otherwise provided in this section, the permittee shall perform inspections of each load-out operation at each storage pile in accordance with the following frequencies:

<u>storage pile identification</u>	<u>minimum load-out inspection frequency</u>
all	daily

- 3. Except as otherwise provided in this section, the permittee shall perform inspections of the wind erosion from pile surfaces associated with each storage pile in accordance with the following frequencies:

storage pile identification

minimum wind erosion inspection frequency

all

daily

4. No inspection shall be necessary for wind erosion from the surface of a storage pile when the pile is covered with snow and/or ice and for any storage pile activity if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.
5. The purpose of the inspections is to determine the need for implementing the control measures specified in this permit for load-in and load-out of a storage pile, and wind erosion from the surface of a storage pile. The inspections shall be performed during representative, normal storage pile operating conditions.
6. The permittee shall maintain records of the following information:
  - a. The date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
  - b. The date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
  - c. The dates the control measures were implemented; and
  - d. On a calendar quarter basis, the total number of days the control measures were implemented and, for wind erosion from pile surfaces, the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measure(s).

The information required in 6.d. shall be kept separately for (i) the load-in operations, (ii) the load-out operations, and (iii) the pile surfaces (wind erosion), and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

7. The permittee shall maintain monthly records of the amount of sand and gravel throughput in this emissions unit.

#### **D. Reporting Requirements**

1. The permittee shall submit quarterly deviation reports that identify any of the following occurrences:
  - a. Each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
  - b. Each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.
2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.
3. The permittee shall submit annual reports to Hamilton County Department of Environmental Services that identify any exceedances of the throughput limit in term and condition B.1 as well as the corrective actions that were taken to achieve compliance. If no exceedances occurred, then the permittee shall state so in the report. These reports shall be submitted by January 31 of each year.

#### **E. Testing Requirements**

1. Compliance with the emissions limitation(s) in term and condition A.1 shall be determined in accordance with the following method(s):

Emissions Limitation:

No visible particulate emissions, except for a total of one minute, during any 60 minute

observation period.

Applicable Compliance Method:

If required, compliance shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources.")

**2. Emissions Limitation:**

10.46 tons PE/yr; 5.23 tons PM10/yr

Applicable Compliance Method:

Emissions shall be calculated and compliance determined by using the following equations:

$$\begin{aligned} \text{tons PE/yr} &= [(A) * (C) * (D) * 0.0005] + [(B) * (C) * (D) * 0.0005] + [(E) * (G) * (D)] \\ \text{tons PM10/yr} &= [(H) * (C) * (D) * 0.0005] + [(I) * (C) * (D) * 0.0005] + [(F) * (G) * (D)] \end{aligned}$$

where,

- A = PM (particulate matter) emissions factor for storage pile load-in, pounds per ton of material handled, calculated from AP-42, Section 13.2.4, (January, 1995).
- B = PM emissions factor for storage pile load-out, pounds per ton of material handled, calculated from AP-42, Section 13.2.4, (January, 1995).
- C = Total annual tons material handled
- D = Total control efficiency of 50 percent, expressed as a decimal, from wet suppression.
- E = Annual PM emissions from wind erosion, tons, calculated from AP-42, Section 13.2.5 (January, 1995).
- F = Annual PM10 emissions from wind erosion, tons, calculated from AP-42, Section 13.2.5 (January, 1995).
- G = Number of storage piles.
- H = PM10 emissions factor for storage pile load-in, pounds per ton of material handled, calculated from AP-42, Section 13.2.4, (January, 1995).
- I = PM10 emissions factor for storage pile load-out, pounds per ton of material handled, calculated from AP-42, Section 13.2.4, (January, 1995).

**3. Compliance with the annual throughput restriction in term and condition B.1 shall be determined by the record keeping requirements in term and condition C.7.**

**F. Miscellaneous Requirements**

1. The terms and conditions listed in this permit to install shall supersede all the air pollution control requirements contained in permit to install 14-04846 as issued on February 9, 2000.

## PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

### A. Applicable Emissions Limitations and/or Control Requirements

- The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F003 - aggregate processing	OAC rule 3745-31-05(A)(3)	Particulate emissions (PE) shall not exceed 7.5 pounds per hour and 9.40 tons per year (TPY.) Particulate matter emissions 10 microns and less in diameter shall not exceed 2.7 pounds per hour and 3.33 tons per year (TPY.)
		See term B.1
	40 CFR Part 60, Subpart OOO	The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart OOO.
	OAC rule 3745-17-07(B)	The emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-08(B)	The emissions limitation specified by this rule is less stringent than the emissions limitation

established pursuant to OAC  
rule 3745-31-05(A)(3).

## **2. Additional Terms and Conditions**

- 2.a** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the wet suppression, opacity limitations, emissions limitations and annual production limitation.
- 2.b** Fugitive particulate emissions from any transfer point on belt conveyors and from any other emissions point (excluding crushers and truck dumping) where process materials are not saturated, shall not exceed 10% opacity, except as provided by rule 40 CFR 60.672.
- 2.c** Fugitive particulate emissions from any crusher shall not exceed 15% opacity.
- 2.d** Fugitive particulate emissions from wet screening operations and subsequent screening operations, bucket elevators, and belt conveyors that process saturated material in the production line up to the next crusher, grinding mill or storage bin shall not exceed 0% opacity.
- 2.e** Fugitive particulate emissions from screening operations, bucket elevators, and belt conveyors in the production line downstream of wet mining operations, where such screening operations, bucket elevators, and belt conveyors process saturated materials up to the first crusher, grinding mill, or storage bin in the production line shall not exceed 0% opacity.
- 2.f** The hourly emissions limitations outlined in term and condition A.1 are based upon the emissions unit's potential to emit. Therefore, no hourly records are required to demonstrate compliance with these limits.
- 2.g** The application and enforcement of the provisions of the New Source Performance Standards (NSPS), as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency. The requirements of 40 CFR Part 60 are also federally enforceable.

## **B. Operational Restrictions**

Emissions Unit ID: **F003**

1. Water sprays shall be operated at points necessary to ensure compliance with the visible emission limitations specified in terms A.2.b and A.2.c for crushing and screening operations.
2. Aggregate product loaded onto trucks shall have a moisture content sufficient to minimize visible emissions of fugitive dust and the loading drop height shall not exceed fifteen (15) feet.
3. The maximum annual sand and gravel production rate for emissions unit F003 shall not exceed 1,500,000 tons per year.

**C. Monitoring and/or Record keeping Requirements**

1. The permittee shall maintain monthly records of the amount of sand and gravel produced in this emissions unit.

**D. Reporting Requirements**

1. The permittee shall submit annual reports to Hamilton County Department of Environmental Services that identify any exceedances of the annual sand and gravel production limitation as well as the corrective actions that were taken to achieve compliance. If no exceedances occurred, then the permittee shall state so in the report. These reports shall be submitted by January 31 of each year.
2. A screening operation, bucket elevator, or belt conveyor that processes saturated material and is subject to 40 CFR 60.672(h) and subsequently processes unsaturated material shall submit a report of this change within 30 days following such change to the Hamilton County Department of Environmental Services. This screening operation, bucket elevator, or belt conveyor is then subject to the 10% opacity limit in 40 CFR 60.672(b) and the emissions test requirements of 40 CFR 60.11 and 60.675. A screening operation, bucket elevator, or belt conveyor that processes unsaturated material but subsequently processes saturated material shall submit a report of this change within 30 days following such change. This screening operation, bucket elevator, or belt conveyor is then subject to the no visible emissions limit in 40 CFR 60.672(h).
3. Pursuant to the NSPS, the source owner-operator is hereby advised of the requirement to report the following at the appropriate times:
  - a. Construction date (no later than 30 days after such date),

**Hans**  
**PTI A**  
**Issued: 10/25/2005**

Emissions Unit ID: **F003**

- b. Anticipated start-up date (not more than 60 days or less than 30 days prior to such date),
- c. Actual start-up date (within 15 days after such date), and
- d. Date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency  
DAPC - Permit Management Unit  
P.O. Box 163669  
Columbus, OH 43216-3669

and

Hamilton County Department of Environmental Services  
250 William Howard Taft Road  
Cincinnati, OH 45219

- 4.** The permittee shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards in 40 CFR 60.672 of Subpart OOO, including reports of observations using Method 9 to demonstrate compliance with term and condition A.2.b, A.2.c, A.2.d and A.2.e of this permit.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Hamilton County Department of Environmental Services within 30 days following completion of the test(s).

## **E. Testing Requirements**

- 1.** Compliance with the emissions limitation(s) in term and condition A.1 of these terms and conditions shall be determined in accordance with the following method(s):
- a. Emissions Limitations:  
  
9.40 tons/yr PE; 3.33 tons/yr PM10  
  
Applicable Compliance Method:

Emissions shall be calculated and compliance determined by using the following equations:

$$\begin{aligned} \text{tons PE/yr} &= [(A) * (D) * 0.0005] + [(B) * (D) * 0.0005] + [(C) * (D) * 0.0005] \\ \text{tons PM}_{10}/\text{yr} &= [(E) * (D) * 0.0005] + [(F) * (D) * 0.0005] + [(G) * (D) * 0.0005] \end{aligned}$$

where,

- A = PM emission factor for controlled conveyor transfer point, pounds per ton of material throughput, from AP-42, Section 11.19.2, (August, 2004).
- B = PM emission factor for controlled screening, pounds per ton of material throughput, from AP-42, Section 11.19.2, (August, 2004).
- C = PM emission factor for controlled tertiary crushing, pounds per ton of material throughput, from AP-42, Section 11.19.2, (August, 2004).
- D = Total annual throughput, tons.
- E = PM<sub>10</sub> emission factor for controlled conveyor transfer point, pounds per ton of material throughput, from AP-42, Section 11.19.2, (August, 2004).
- F = PM<sub>10</sub> emission factor for controlled screening, pounds per ton of material throughput, from AP-42, Section 11.19.2, (August, 2004).
- G = PM<sub>10</sub> emission factor for controlled tertiary crushing, pounds per ton of material throughput, from AP-42, Section 11.19.2, (August, 2004).

b. Emissions Limitations:

7.52 lbs/hr, 2.67 lbs/hr

Applicable Compliance Method:

Emissions shall be calculated and compliance determined by using the following equations:

$$\begin{aligned} \text{lbs PE/hr} &= [(A) * (D) ] + [(B) * (D) ] + [(C) * (D) ] \\ \text{lbs PM}_{10}/\text{hr} &= [(E) * (D) ] + [(F) * (D) ] + [(G) * (D) ] \end{aligned}$$

where,

- A = PM emission factor for controlled conveyor transfer point, pounds per ton of material throughput, from AP-42, Section 11.19.2, (August, 2004).
- B = PM emission factor for controlled screening, pounds per ton of material throughput, from AP-42, Section 11.19.2, (August, 2004).

- C = PM emission factor for controlled tertiary crushing, pounds per ton of material throughput, from AP-42, Section 11.19.2, (August, 2004).
- D = Total hourly throughput, tons.
- E = PM10 emission factor for controlled conveyor transfer point, pounds per ton of material throughput, from AP-42, Section 11.19.2, (August, 2004).
- F = PM10 emission factor for controlled screening, pounds per ton of material throughput, from AP-42, Section 11.19.2, (August, 2004).
- G = PM10 emission factor for controlled tertiary crushing, pounds per ton of material throughput, from AP-42, Section 11.19.2, (August, 2004).

2. The permittee shall conduct, or have conducted, fugitive emissions testing for this emissions unit in accordance with the following requirements:
  - a. The emissions testing shall be conducted within 60 days after achieving maximum production but no later than 180 days after start-up.
  - b. The emissions testing shall be conducted to demonstrate compliance with 40 CFR 60, Subpart OOO.
  - c. Compliance with the opacity limits of this permit shall be determined by using US EPA Reference Test Method 9. The minimum distance between the observer and the emissions source shall be 4.57 meters (15 feet).
  - d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Hamilton County Department of Environmental Services.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Hamilton County Department of Environmental Services.

The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Hamilton County Department's of Environmental Services refusal to accept the results of the emissions test(s).

Personnel from the Hamilton County Department of Environmental Services shall be permitted to witness the test(s), examine the testing equipment, and acquire data and

**Hanson Aggregates Davon Inc**  
**PTI Application: 14-05767**  
**Issue**

**Facility ID: 1431474045**

**Emissions Unit ID: F003**

information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the test(s) and submitted to the Hamilton County Department of Environmental Services within 30 days following completion of the test(s).

3. Compliance with the opacity limitations in terms and conditions A.2.b. through A.2.e. shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources.")
4. Compliance with the production limitation in term and condition B.3 shall be determined by the recordkeeping in term and condition C.1.

#### **F. Miscellaneous Requirements**

1. The terms and conditions listed in this permit to install shall supersede all the air pollution control requirements contained in permit to install 14-04846 as issued on February 9, 2000.

Emissions Unit ID: F003

SIC CODE 1442 SCC CODE 3-05-025-04 EMISSIONS UNIT ID F001  
 EMISSIONS UNIT DESCRIPTION plant roadways and parking areas  
 DATE INSTALLED not begun

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	attainment		16.33		16.33
PM <sub>10</sub>	attainment		4.19		4.19
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? \_\_\_\_\_ NESHAP? \_\_\_\_\_ PSD? \_\_\_\_\_ OFFSET POLICY? \_\_\_\_\_

**WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?**  
 Water flushing of paved roadways, watering of unpaved roadways, visible emissions limitations, compliance with specified emissions limits.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No  
 OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ \_\_\_\_\_

**TOXIC AIR CONTAMINANTS**

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED\*? \_\_\_\_\_ YES X NO

IDENTIFY THE AIR CONTAMINANTS: \_\_\_\_\_

Emissions Unit ID: F003

SIC CODE 1442 SCC CODE 3-05-025-07 EMISSIONS UNIT ID F002  
 EMISSIONS UNIT DESCRIPTION aggregate storage piles  
 DATE INSTALLED not begun

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	attainment		10.46		10.46
PM <sub>10</sub>	attainment		5.23		5.23
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? \_\_\_\_\_ NESHAP? \_\_\_\_\_ PSD? \_\_\_\_\_ OFFSET POLICY? \_\_\_\_\_

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Wet suppression of aggregate material, visible emissions limitation, production limitation.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ \_\_\_\_\_

**TOXIC AIR CONTAMINANTS**

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED\*? \_\_\_\_\_ YES X NO

IDENTIFY THE AIR CONTAMINANTS: \_\_\_\_\_

**Hanson Aggregates Davon Inc**  
**PTI Application: 14-05767**  
**Issued: 10/25/2005**

**Facility ID: 1431474045**

Emissions Unit ID: **F003**

SIC CODE 1442 SCC CODE 3-05-025-10 EMISSIONS UNIT ID F003

EMISSIONS UNIT DESCRIPTION aggregate processing

DATE INSTALLED not begun

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Pounds per Hour	Tons Per Year	Pounds per Hour	Tons Per Year
Particulate Matter	attainment	3.76	4.70	7.52	9.40
PM <sub>10</sub>	attainment	1.33	1.67	2.67	3.33
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? **Subpart OOO**

NESHAP?

PSD?

OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Wet suppression, compliance with the opacity limitations, emissions limitations and an annual production limitation.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT?

\$

### **TOXIC AIR CONTAMINANTS**

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED\*?

YES

X

NO

IDENTIFY THE AIR CONTAMINANTS: