

**MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY
AIR QUALITY DIVISION**

August 23, 2019

PERMIT TO INSTALL
143-11A

ISSUED TO
Roseville Crushed Concrete

LOCATED AT
29765 Groesbeck Highway
Roseville, Michigan

IN THE COUNTY OF
Macomb

STATE REGISTRATION NUMBER
N6658

The Air Quality Division has approved this Permit to Install, pursuant to the delegation of authority from the Michigan Department of Environment, Great Lakes, and Energy. This permit is hereby issued in accordance with and subject to Section 5505(1) of Article II, Chapter I, Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. Pursuant to Air Pollution Control Rule 336.1201(1), this permit constitutes the permittee's authority to install the identified emission unit(s) in accordance with all administrative rules of the Department and the attached conditions. Operation of the emission unit(s) identified in this Permit to Install is allowed pursuant to Rule 336.1201(6).

DATE OF RECEIPT OF ALL INFORMATION REQUIRED BY RULE 203: June 4, 2019	
DATE PERMIT TO INSTALL APPROVED: August 23, 2019	SIGNATURE:
DATE PERMIT VOIDED:	SIGNATURE:
DATE PERMIT REVOKED:	SIGNATURE:

PERMIT TO INSTALL

Table of Contents

COMMON ACRONYMS 2
POLLUTANT / MEASUREMENT ABBREVIATIONS..... 3
GENERAL CONDITIONS 4
EMISSION UNIT SPECIAL CONDITIONS..... 6
 EMISSION UNIT SUMMARY TABLE 6
 EUPROCESS 7
 EUTRUCKTRAFFIC..... 10
 EUSTORAGE 12
APPENDIX A 14
APPENDIX B 15

COMMON ACRONYMS

AQD	Air Quality Division
BACT	Best Available Control Technology
CAA	Clean Air Act
CAM	Compliance Assurance Monitoring
CEMS	Continuous Emission Monitoring System
CFR	Code of Federal Regulations
COMS	Continuous Opacity Monitoring System
Department/department/EGLE	Michigan Department of Environment, Great Lakes, and Energy
EU	Emission Unit
FG	Flexible Group
GACS	Gallons of Applied Coating Solids
GC	General Condition
GHGs	Greenhouse Gases
HVLP	High Volume Low Pressure*
ID	Identification
IRSL	Initial Risk Screening Level
ITSL	Initial Threshold Screening Level
LAER	Lowest Achievable Emission Rate
MACT	Maximum Achievable Control Technology
MAERS	Michigan Air Emissions Reporting System
MAP	Malfunction Abatement Plan
MSDS	Material Safety Data Sheet
NA	Not Applicable
NAAQS	National Ambient Air Quality Standards
NESHAP	National Emission Standard for Hazardous Air Pollutants
NSPS	New Source Performance Standards
NSR	New Source Review
PS	Performance Specification
PSD	Prevention of Significant Deterioration
PTE	Permanent Total Enclosure
PTI	Permit to Install
RACT	Reasonable Available Control Technology
ROP	Renewable Operating Permit
SC	Special Condition
SCR	Selective Catalytic Reduction
SNCR	Selective Non-Catalytic Reduction
SRN	State Registration Number
TBD	To Be Determined
TEQ	Toxicity Equivalence Quotient
USEPA/EPA	United States Environmental Protection Agency
VE	Visible Emissions

*For HVLP applicators, the pressure measured at the gun air cap shall not exceed 10 psig

POLLUTANT / MEASUREMENT ABBREVIATIONS

acfm	Actual cubic feet per minute
BTU	British Thermal Unit
°C	Degrees Celsius
CO	Carbon Monoxide
CO ₂ e	Carbon Dioxide Equivalent
dscf	Dry standard cubic foot
dscm	Dry standard cubic meter
°F	Degrees Fahrenheit
gr	Grains
HAP	Hazardous Air Pollutant
Hg	Mercury
hr	Hour
HP	Horsepower
H ₂ S	Hydrogen Sulfide
kW	Kilowatt
lb	Pound
m	Meter
mg	Milligram
mm	Millimeter
MM	Million
MW	Megawatts
NMOC	Non-Methane Organic Compounds
NO _x	Oxides of Nitrogen
ng	Nanogram
PM	Particulate Matter
PM10	Particulate Matter equal to or less than 10 microns in diameter
PM2.5	Particulate Matter equal to or less than 2.5 microns in diameter
pph	Pounds per hour
ppm	Parts per million
ppmv	Parts per million by volume
ppmw	Parts per million by weight
psia	Pounds per square inch absolute
psig	Pounds per square inch gauge
scf	Standard cubic feet
sec	Seconds
SO ₂	Sulfur Dioxide
TAC	Toxic Air Contaminant
Temp	Temperature
THC	Total Hydrocarbons
tpy	Tons per year
µg	Microgram
µm	Micrometer or Micron
VOC	Volatile Organic Compounds
yr	Year

GENERAL CONDITIONS

1. The process or process equipment covered by this permit shall not be reconstructed, relocated, or modified, unless a Permit to Install authorizing such action is issued by the Department, except to the extent such action is exempt from the Permit to Install requirements by any applicable rule. **(R 336.1201(1))**
2. If the installation, construction, reconstruction, relocation, or modification of the equipment for which this permit has been approved has not commenced within 18 months, or has been interrupted for 18 months, this permit shall become void unless otherwise authorized by the Department. Furthermore, the permittee or the designated authorized agent shall notify the Department via the Supervisor, Permit Section, Air Quality Division, Michigan Department of Environment, Great Lakes, and Energy, P.O. Box 30260, Lansing, Michigan 48909-7760, if it is decided not to pursue the installation, construction, reconstruction, relocation, or modification of the equipment allowed by this Permit to Install. **(R 336.1201(4))**
3. If this Permit to Install is issued for a process or process equipment located at a stationary source that is not subject to the Renewable Operating Permit program requirements pursuant to Rule 210 (R 336.1210), operation of the process or process equipment is allowed by this permit if the equipment performs in accordance with the terms and conditions of this Permit to Install. **(R 336.1201(6)(b))**
4. The Department may, after notice and opportunity for a hearing, revoke this Permit to Install if evidence indicates the process or process equipment is not performing in accordance with the terms and conditions of this permit or is violating the Department's rules or the Clean Air Act. **(R 336.1201(8), Section 5510 of Act 451, PA 1994)**
5. The terms and conditions of this Permit to Install shall apply to any person or legal entity that now or hereafter owns or operates the process or process equipment at the location authorized by this Permit to Install. If the new owner or operator submits a written request to the Department pursuant to Rule 219 and the Department approves the request, this permit will be amended to reflect the change of ownership or operational control. The request must include all of the information required by subrules (1)(a), (b), and (c) of Rule 219 and shall be sent to the District Supervisor, Air Quality Division, Michigan Department of Environment, Great Lakes, and Energy. **(R 336.1219)**
6. Operation of this equipment shall not result in the emission of an air contaminant which causes injurious effects to human health or safety, animal life, plant life of significant economic value, or property, or which causes unreasonable interference with the comfortable enjoyment of life and property. **(R 336.1901)**
7. The permittee shall provide notice of an abnormal condition, start-up, shutdown, or malfunction that results in emissions of a hazardous or toxic air pollutant which continue for more than one hour in excess of any applicable standard or limitation, or emissions of any air contaminant continuing for more than two hours in excess of an applicable standard or limitation, as required in Rule 912, to the Department. The notice shall be provided not later than two business days after start-up, shutdown, or discovery of the abnormal condition or malfunction. Written reports, if required, must be filed with the Department within 10 days after the start-up or shutdown occurred, within 10 days after the abnormal conditions or malfunction has been corrected, or within 30 days of discovery of the abnormal condition or malfunction, whichever is first. The written reports shall include all of the information required in Rule 912(5). **(R 336.1912)**
8. Approval of this permit does not exempt the permittee from complying with any future applicable requirements which may be promulgated under Part 55 of 1994 PA 451, as amended or the Federal Clean Air Act.
9. Approval of this permit does not obviate the necessity of obtaining such permits or approvals from other units of government as required by law.
10. Operation of this equipment may be subject to other requirements of Part 55 of 1994 PA 451, as amended and the rules promulgated thereunder.

11. Except as provided in subrules (2) and (3) or unless the special conditions of the Permit to Install include an alternate opacity limit established pursuant to subrule (4) of Rule 301, the permittee shall not cause or permit to be discharged into the outer air from a process or process equipment a visible emission of density greater than the most stringent of the following. The grading of visible emissions shall be determined in accordance with Rule 303 (R 336.1303). **(R 336.1301)**
 - a) A six-minute average of 20 percent opacity, except for one six-minute average per hour of not more than 27 percent opacity.
 - b) A visible emission limit specified by an applicable federal new source performance standard.
 - c) A visible emission limit specified as a condition of this Permit to Install.
12. Collected air contaminants shall be removed as necessary to maintain the equipment at the required operating efficiency. The collection and disposal of air contaminants shall be performed in a manner so as to minimize the introduction of contaminants to the outer air. Transport of collected air contaminants in Priority I and II areas requires the use of material handling methods specified in Rule 370(2). **(R 336.1370)**
13. The Department may require the permittee to conduct acceptable performance tests, at the permittee's expense, in accordance with Rule 1001 and Rule 1003, under any of the conditions listed in Rule 1001. **(R 336.2001)**

EMISSION UNIT SPECIAL CONDITIONS

EMISSION UNIT SUMMARY TABLE

The descriptions provided below are for informational purposes and do not constitute enforceable conditions.

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Flexible Group ID
EUPROCESS	A combination of process equipment (screens, crushers with a maximum rated capacity of 300 tph, feeders, conveyors, etc.) used to reduce larger materials down to smaller sizes, classify and sort materials into various product types, material handling and transporting of material to storage areas. Control methods include equipment enclosures or enclosed within a building, water sprays, drop chutes and/or pant legs for transfer points. This is a permanent installation.	NA
EUTRUCKTRAFFIC	Truck traffic for delivery of material products to customers; truck traffic from processing area and loader traffic associated with processing equipment, storage pile handling and loading delivery trucks. All commercial truck areas and unpaved road portions.	NA
EUSTORAGE	Open area stock piles of various material sizes and product types. Water spray of material products are used when necessary for material storage piles.	NA

Changes to the equipment described in this table are subject to the requirements of R 336.1201, except as allowed by R 336.1278 to R 336.1291.

EUPROCESS EMISSION UNIT CONDITIONS

DESCRIPTION

A combination of process equipment (screens, crushers with a maximum rated capacity of 300 tph, feeders, conveyors, etc.) used to reduce larger materials down to smaller sizes, classify and sort materials into various product types, material handling and transporting of material to storage areas. Control methods include equipment enclosures or enclosed within a building, water sprays, drop chutes and/or pant legs for transfer points. This is a permanent installation.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

Control methods include equipment enclosures or enclosed within a building, water sprays, encrusting agents, drop chutes and/or pant legs for transfer points.

I. EMISSION LIMIT(S)

1. Visible emissions from the drop point and transfer point portions of EUPROCESS shall not exceed 10 percent opacity. **(R 336.1301, 40 CFR 52.21 (c) & (d), 40 CFR 60.672)**

II. MATERIAL LIMIT(S)

1. The permittee shall not process any asbestos tailing or asbestos containing waste materials in EUPROCESS pursuant to the National Emission Standards for Hazardous Air Pollutants, 40 CFR Part 61 Subpart M. **(40 CFR Part 61 Subpart M)**
2. The permittee shall not process more than 3,000 tons of material per day nor 150,000 tons of material through EUPROCESS per 12-month rolling time period as determined at the end of each calendar month. **(R 336.1901, 40 CFR 52.21 (c) & (d))**

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate any portion of EUPROCESS unless each portion of EUPROCESS meets the specific opacity limit listed in Appendix A of this permit. **(R 336.1301, 40 CFR 52.21 (c) & (d), 40 CFR 60.672)**
2. The permittee shall not operate EUPROCESS unless the fugitive dust control plan for all plant roadways, the plant yard, all material storage piles, and all material handling operations specified in Appendix B has been implemented and is maintained. **(R 336.1371, R 336.1901)**
3. The permittee shall comply with all provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60 Subparts A and OOO, as they apply to EUPROCESS. **(40 CFR Part 60 Subparts A & OOO)**
4. The permittee shall immediately cease the input feed to EUPROCESS, consistent with safe operating procedures, upon malfunction of any EUPROCESS equipment's control device specified in SC IV.1. Input feed to EUPROCESS shall not resume until the control device malfunction has been repaired and is operating in a satisfactory manner. **(R 336.1301, R 336.1901, R 336.1910, R 336.1911, 40 CFR 52.21 (c) & (d))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate any portion of EUPROCESS unless the water sprays for each equipment is installed, maintained and operated in a satisfactory manner as listed in Appendix A. **(R 336.1301, R 336.1901, R 336.1910, 40 CFR 52.21 (c) & (d))**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. Within 60 days after achieving the maximum production rate but no later than 180 days after initial startup, each new or additional equipment associated with EUPROCESS that is subject to the federal NSPS Subpart OOO, shall comply with the testing requirements of the federal Standards of Performance for New Stationary Sources 40 CFR Part 60 Subparts A and OOO. The permittee must have prior approval from the AQD for visible emission observation procedures. No less than ten (10) days prior to the anticipated test date, the permittee shall notify the AQD District Supervisor of the test date. If after the anticipated test date has been submitted, there is a delay in conducting the test, the permittee shall submit to the AQD District Supervisor notice of the new test date. This notification shall take place a minimum of three (3) days prior to the rescheduled test taking place. Verification of visible emissions includes the submittal of a complete report of opacity observations to the AQD within 30 days following the last date of the evaluation. **(R 336.1301, R 336.2001, 40 CFR Part 60 Subparts A & OOO)**
2. Upon request of the AQD District Supervisor, the permittee shall comply with federal Standards of Performance for New Stationary Sources which require evaluation of visible emissions from EUPROCESS, at owner's expense, in accordance with 40 CFR Part 60 Subparts A and OOO. Visible emission observation procedures must have prior approval by the AQD Technical Programs Unit and District Office. No less than ten (10) days prior to the anticipated test date, the permittee shall notify the AQD District Supervisor of the test date. If after the anticipated test date has been submitted, there is a delay in conducting the test, the permittee shall submit to the AQD District Supervisor notice of the new test date. This notification shall take place a minimum of three (3) days prior to the rescheduled test taking place. Verification of visible emissions includes the submittal of a complete report of opacity observations to the AQD Technical Programs Unit and District Office within 30 days following the last date of the test. **(R 336.1301, 40 CFR Part 60 Subparts A & OOO)**

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the 15th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d))**
2. The permittee shall keep monthly calculations of the amount of material processed through EUPROCESS by tracking the monthly hours of EUPROCESS equipment operation and using maximum rated capacity of the crusher. Additionally, the permittee shall calculate on a monthly basis, the yearly throughput rate based upon the most recent 12-month rolling time period in a format acceptable to the AQD District Supervisor. The permittee shall keep records of the amount of material processed on file and make them available to the Department upon request. **(40 CFR 52.21 (c) & (d))**
3. The permittee shall keep daily calculations of the amount of material processed through EUPROCESS by tracking the daily hours of EUPROCESS equipment operation and using maximum rated capacity of the crusher in a format acceptable to the AQD District Supervisor. The permittee shall keep records of the amount of material processed on file and make them available to the Department upon request. **(40 CFR 52.21 (c) & (d))**
4. The permittee shall verify compliance with the visible emission limit in SC I.1 by taking six-minute visible emission readings from EUPROCESS a minimum of once per calendar operating day during maximum routine operating conditions. Either a certified or non-certified reader that has been certified within the previous 24 months shall take each visible emission reading during maximum routine operating conditions. If the permittee

observes any visible emissions above the permitted limits, the permittee shall immediately implement the following procedures:

- a) The permittee shall perform the six-minute visible emission readings at least once every 30 minutes until emissions are no longer above the limit or until emissions above the limit have been observed for more than two hours.
 - b) If visible emissions above the limit have been observed for more than two hours, a certified reader shall determine the opacity using Federal Reference Test Method 9D (40 CFR Part 60, Appendix A).
 - c) If the results of the Federal Reference Test Method 9D visible emission observation indicate a violation of the opacity standard specified in SC I.1, the permittee shall immediately cease process operations and initiate corrective actions. **(R 336.1301, R 336.1303, R 336.1901)**
5. The permittee shall perform daily inspections and record the condition of the process equipment and associated control devices prior to process start-up each calendar operating day. **(R 336.1301, R 336.1901, R 336.1910)**
6. The permittee shall keep, in a satisfactory manner (in a format acceptable to the AQD District Supervisor), records of all visible emission observation readings from EUPROCESS. At a minimum, the permittee shall record the date the visible emission readings were conducted, the name of the visible emission observer, the date the observer was certified, and the name of the certifying organization. The permittee shall also record the time, estimated distance to the emission location, approximate wind direction, estimated wind speed, description of the sky condition (presence and color of clouds), and plume background at the time opacity readings are initiated and completed. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1301, R 336.1303, 40 CFR 60.672)**
7. The permittee shall maintain a log of maintenance activities conducted and repairs made to EUPROCESS and control devices. Maintenance and daily inspection records for the EUPROCESS fugitive dust control equipment shall also be included. The permittee shall keep all records (in a format acceptable to the AQD District Supervisor) on file and make them available to the Department upon request. **(R 336.1301, R 336.1910, 40 CFR 52.21 (c) & (d))**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

1. Within 7 days of issuance of this permit, the permittee shall label all equipment using the company ID Numbers in Appendix A, according to a method acceptable to the AQD District Supervisor. Labels shall be in a conspicuous location on the equipment and shall be maintained. Within seven days of completing the labeling, the permittee shall notify the AQD District Supervisor, in writing, as to the date the labeling was completed. **(R 336.1201)**

Footnotes:

¹ This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

EUTRUCKTRAFFIC EMISSION UNIT CONDITIONS

DESCRIPTION

Truck traffic for delivery of material products to customers; truck traffic from processing area and loader traffic associated with processing equipment, storage pile handling and loading delivery trucks. All commercial truck areas and unpaved road portions.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

1. Visible emissions from all wheel loaders and all truck traffic, operated in conjunction with EUTRUCKTRAFFIC, shall not exceed five (5) percent opacity. Compliance shall be demonstrated using Test Method 9D as defined in Section 324.5525(j) of Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Act 451). **(R 336.1301, 40 CFR 52.21(c) & (d))**

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate EUTRUCKTRAFFIC unless the fugitive dust control plan for all plant roadways, the plant yard, all material storage piles, and all material handling operations specified in Appendix B has been implemented and is maintained in a manner that achieves compliance with the opacity limit specified in SC I.1. **(R 336.1371, R 336.1372, Act 451 324.5524)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. Within 180 days after issuance of this permit, the permittee shall evaluate visible emissions from EUTRUCKTRAFFIC, at owner's expense, in accordance 40 CFR Part 60.11(b). Visible emission observation procedures must have prior approval by the AQD Technical Programs Unit and District Office. No less than ten (10) days prior to the anticipated test date, the permittee shall notify the AQD District Supervisor of the test date. If after the anticipated test date has been submitted, there is a delay in conducting the test, the permittee shall submit to the AQD District Supervisor notice of the new test date. This notification shall take place a minimum of three (3) days prior to the rescheduled test taking place. Verification of visible emissions includes the submittal of a complete report of opacity observations to the AQD Technical Programs Unit and District Office within 30 days following the last date of the test. **(R 336.1301, 40 CFR Part 60 Subpart A)**

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall verify compliance with the visible emission limit in SC I.1 by taking six-minute visible emission readings from EUTRUCKTRAFFIC a minimum of once per calendar operating day during maximum

routine operating conditions. Either a certified or non-certified reader that has been certified within the previous 24 months shall take each visible emission reading during maximum routine operating conditions. If the permittee observes any visible emissions above the permitted limits, the permittee shall immediately implement the following procedures:

- a) The permittee shall perform the six-minute visible emission readings at least once every 30 minutes until emissions are no longer above the limit or until emissions above the limit have been observed for more than two hours.
- b) If visible emissions above the limit have been observed for more than two hours, a certified reader shall determine the opacity using Federal Reference Test Method 9D (40 CFR Part 60, Appendix A).
- c) If the results of the Federal Reference Test Method 9D visible emission observation indicate a violation of the opacity standard specified in SC I.1, the permittee shall immediately cease process operations and initiate corrective actions. **(R 336.1301, R 336.1303, R 336.1901)**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

¹ This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

EUSTORAGE EMISSION UNIT CONDITIONS

DESCRIPTION

Open area stock piles of various material sizes and product types.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

Water spray of material products are used when necessary for material storage piles.

I. EMISSION LIMIT(S)

1. Visible emissions from each of the material storage piles maintained under EUSTORAGE shall not exceed five (5) percent opacity. Compliance shall be demonstrated using Test Method 9D as defined in Section 324.5525(j) of Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Act 451). **(R 336.1301, 40 CFR 52.21(c) & (d))**

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate EUSTORAGE unless the fugitive dust control plan for all plant roadways, the plant yard, all material storage piles, and all material handling operations specified in Appendix B has been implemented and is maintained in a manner that achieves compliance with the opacity limit specified in SC I.1. **(R 336.1371, R 336.1372, Act 451 324.5524)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. Within 180 days after issuance of this permit, the permittee shall evaluate visible emissions from each of the material storage piles maintained under EUSTORAGE, at owner's expense, in accordance 40 CFR Part 60.11(b). Visible emission observation procedures must have prior approval by the AQD Technical Programs Unit and District Office. No less than ten (10) days prior to the anticipated test date, the permittee shall notify the AQD District Supervisor of the test date. If after the anticipated test date has been submitted, there is a delay in conducting the test, the permittee shall submit to the AQD District Supervisor notice of the new test date. This notification shall take place a minimum of three (3) days prior to the rescheduled test taking place. Verification of visible emissions includes the submittal of a complete report of opacity observations to the AQD Technical Programs Unit and District Office within 30 days following the last date of the test. **(R 336.1301, 40 CFR Part 60 Subpart A)**

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall verify compliance with the visible emission limit in SC I.1 by taking six-minute visible emission readings from each of the material storage piles maintained under EUSTORAGE a minimum of once

per calendar operating day during maximum routine operating conditions. Either a certified or non-certified reader that has been certified within the previous 24 months shall take each visible emission reading during maximum routine operating conditions. If the permittee observes any visible emissions above the permitted limits, the permittee shall immediately implement the following procedures:

- a) The permittee shall perform the six-minute visible emission readings at least once every 30 minutes until emissions are no longer above the limit or until emissions above the limit have been not observed for more than two hours.
- b) If visible emissions above the limit have been observed for more than two hours, a certified reader shall determine the opacity using Federal Reference Test Method 9D (40 CFR Part 60, Appendix A).
- c) If the results of the Federal Reference Test Method 9D visible emission observation indicate a violation of the opacity standard specified in SC I.1, the permittee shall immediately cease process operations and initiate corrective actions. **(R 336.1301, R 336.1303, R 336.1901)**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

¹ This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

APPENDIX A

Equipment Description	ID Number	Opacity Limit (Percent)	Control Device
Crusher	Eagle Crusher – E1	10	Water Spray
Crusher	Diamond Crusher #2	10	Water Spray
Screen	Simplicity Screen #02 – S02	10	Water Spray
Conveyor	Conveyor #001	10	Water Spray
Conveyor	Conveyor #008	10	Water Spray
Conveyor	Conveyor #003	10	Water Spray
Conveyor	Conveyor #005	10	Water Spray

APPENDIX B

Nuisance Minimization Plan for Fugitive Dust

I. Site Roadways / Plant Yard

- A. The dust on the site roadways and the plant yard shall be controlled by applications of water or calcium chloride, sweeping, vacuuming, or other acceptable and approved fugitive dust control methods. Applications of dust suppressants shall be done as often as necessary to meet all applicable emission limits. This shall occur a minimum of twice per plant operating day or more frequently as dictated by weather conditions and vehicular activity. Unpaved roadways shall be wet at all times. The dust control method shall be acceptable as determined by the District Supervisor.
- B. All paved roadways and the plant yards shall be swept as often as necessary to meet all applicable emission limits between applications. Sweeping and clean up activities shall be done in a manner so as to minimize the reintroduction of dust to the outer air.
- C. Any material spillage on roads shall be cleaned up immediately. Sweeping and clean up activities shall be done in a manner so as to minimize the reintroduction of dust to the outer air.
- D. The speed of vehicles on the site shall be limited to 4 miles per hour or less. Signs will be posted to advise drivers of the speed limitation.
- E. All the delivery and material input roadways on which the material haul vehicles will travel shall be paved with asphalt or concrete by June 30, 2012.
- F. All other surfaces in which vehicles travel, including around the process equipment and material storage piles, shall be paved with crushed concrete by June 30, 2012.
- G. The exit of the roadway shall have rumble strips or other method approved by the AQD District Supervisor, which shall be appropriately designed and maintained to minimize track out. This track out control method shall be in place by June 30, 2012.

II. Plant

The drop distance at each transfer point shall be reduced to the minimum the equipment can achieve.

III. Storage Piles

- A. Stockpiling of all nonmetallic minerals shall be performed to minimize drop distance and control potential dust problems.
- B. Stockpiles shall be watered on an as needed basis in order to meet the opacity limit of 5 percent. Equipment to apply water or dust suppressant shall be available at the site or on call for use at the site within a given operating day. A record (in a format acceptable to the AQD District Supervisor) of all watering/dust suppressant applications shall be kept on file and be made available to the AQD upon request.

IV. Truck Traffic

- A. **OUT-GOING TRUCKS:** All trucks leaving the site with product will be required to cover their loads prior to leaving the site. A sign shall be posted to advise drivers of this requirement.

- B. On-site vehicles shall be loaded to prevent their contents from dropping, leaking, blowing or otherwise escaping. This shall be accomplished by loading so that no part of the load shall come in contact within 6 inches of the top of any side board, side panel or tailgate. Otherwise, the truck shall be tarped.

V. Management of Front-End Loader Operations

The front-end loader operator shall be directed to avoid overfilling the bucket of the loader and the concrete crushing process equipment to prevent spillage, and to minimize the drop height of the material when loading concrete crushing process equipment, haul vehicles or transferring material to stockpiles.

VI. Process Equipment

Any fugitive emissions from malfunction(s) from any transfer system, storage bin, mixer or hopper shall be immediately corrected to prevent further fugitive emissions. The water spray systems (for the crusher unit and for controlling fugitive emissions from material handling) shall be modified or upgraded, as necessary, so that operation of such system is deemed acceptable as determined by the District Supervisor. The modified or upgraded water spray systems shall be in place by June 30, 2012.

VII. Recordkeeping

Daily records (in a format acceptable to the AQD District Supervisor) of the fugitive dust control equipment inspections, dust control activities on travel surfaces and other surfaces where fugitive dust emissions occur shall be kept on file for a period of at least five years and made available to the Department upon request. The records will indicate the date, time, what was observed or the reason for the dust control activity (routine or other), and what action was taken.

VIII. AQD/EGLE Inspection

The provisions and procedures of this plan are subject to adjustment by written notification from the AQD if, following an inspection, the AQD finds the fugitive dust requirements and/or permitted emission limits are not being met.