

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION**

March 25, 2015

PERMIT TO INSTALL
612-91D

ISSUED TO
Carmeuse Lime and Stone Inc.

LOCATED AT
15 West County Road 432
Gulliver, Michigan

IN THE COUNTY OF
Schoolcraft

STATE REGISTRATION NUMBER
SRN

The Air Quality Division has approved this Permit to Install, pursuant to the delegation of authority from the Michigan Department of Environmental Quality. 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: March 10, 2015	
DATE PERMIT TO INSTALL APPROVED: March 25, 2015	SIGNATURE:
DATE PERMIT VOIDED:	SIGNATURE:
DATE PERMIT REVOKED:	SIGNATURE:

PERMIT TO INSTALL

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Common Abbreviations / Acronyms

Common Acronyms		Pollutant / Measurement Abbreviations	
AQD	Air Quality Division	BTU	British Thermal Unit
BACT	Best Available Control Technology	°C	Degrees Celsius
CAA	Clean Air Act	CO	Carbon Monoxide
CEM	Continuous Emission Monitoring	dscf	Dry standard cubic foot
CFR	Code of Federal Regulations	dscm	Dry standard cubic meter
CO ₂ e	Carbon Dioxide Equivalent	°F	Degrees Fahrenheit
COM	Continuous Opacity Monitoring	gr	Grains
EPA	Environmental Protection Agency	Hg	Mercury
EU	Emission Unit	hr	Hour
FG	Flexible Group	H ₂ S	Hydrogen Sulfide
GACS	Gallon of Applied Coating Solids	hp	Horsepower
GC	General Condition	lb	Pound
GHGs	Greenhouse Gases	kW	Kilowatt
HAP	Hazardous Air Pollutant	m	Meter
HVLP	High Volume Low Pressure *	mg	Milligram
ID	Identification	mm	Millimeter
LAER	Lowest Achievable Emission Rate	MM	Million
MACT	Maximum Achievable Control Technology	MW	Megawatts
MAERS	Michigan Air Emissions Reporting System	ng	Nanogram
MAP	Malfunction Abatement Plan	NO _x	Oxides of Nitrogen
MDEQ	Michigan Department of Environmental Quality (Department)	PM	Particulate Matter
MSDS	Material Safety Data Sheet	PM10	PM with aerodynamic diameter ≤10 microns
NESHAP	National Emission Standard for Hazardous Air Pollutants	PM2.5	PM with aerodynamic diameter ≤ 2.5 microns
NSPS	New Source Performance Standards	pph	Pounds per hour
NSR	New Source Review	ppm	Parts per million
PS	Performance Specification	ppmv	Parts per million by volume
PSD	Prevention of Significant Deterioration	ppmw	Parts per million by weight
PTE	Permanent Total Enclosure	psia	Pounds per square inch absolute
PTI	Permit to Install	psig	Pounds per square inch gauge
RACT	Reasonably Available Control Technology	scf	Standard cubic feet
ROP	Renewable Operating Permit	sec	Seconds
SC	Special Condition	SO ₂	Sulfur Dioxide
SCR	Selective Catalytic Reduction	THC	Total Hydrocarbons
SRN	State Registration Number	tpy	Tons per year
TAC	Toxic Air Contaminant	µg	Microgram
TEQ	Toxicity Equivalence Quotient	VOC	Volatile Organic Compound
VE	Visible Emissions	yr	Year

* For High Volume Low Pressure (HVLP) applicators, the pressure measured at the HVLP gun air cap shall not exceed ten (10) pounds per square inch gauge (psig).

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 Environmental Quality, 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 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 R 336.1219 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 R 336.1219 and shall be sent to the District Supervisor, Air Quality Division, Michigan Department of Environmental Quality. **(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 R 336.1301, 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 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 R 336.1370(2). **(R 336.1370)**

13. The Department may require the permittee to conduct acceptable performance tests, at the permittee's expense, in accordance with R 336.2001 and R 336.2003, under any of the conditions listed in R 336.2001. **(R 336.2001)**

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 (Process Equipment & Control Devices)	Installation Date / Modification Date	Flexible Group ID
EUHICAL	A high-calcium limestone processing plant: it consists of a combination of equipment (screens, crushers, feeders, conveyors, etc.) used to reduce larger materials down to smaller sizes, classify and sort materials into various product types, material handling and transportation to storage areas. Control methods include equipment enclosures or enclosed within a building, a baghouse, water sprays, drop chutes and/or pant legs for transfer points.	8/1991, 4/1997, 4/2005, 1/2010, 3/2015	NA
EUROCKDRILLS	Rock drills and their associated baghouse/fabric filters.	8/1991, 4/1997, 4/2005, 1/2010	NA
EUTRUCKTRAFFIC	Truck traffic for delivery of limestone products to customers, truck traffic from quarry pit to processing area and loader traffic associated with processing equipment, storage pile handling and loading delivery trucks. All commercial truck areas and unpaved road portions from the quarry pit to the process area.	8/1991, 4/1997, 4/2005, 1/2010	NA
EUSTORAGE	Open area stock piles of various limestone sizes and product types. Dust control is achieved by spraying water onto the materials when necessary.	8/1991, 4/1997, 4/2005, 1/2010, 3/2015	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 336.1290.

The following conditions apply to:
EUHICAL

DESCRIPTION: A high-calcium limestone processing plant: it consists of a combination of equipment (screens, crushers, feeders, conveyors, etc.) used to reduce larger materials down to smaller sizes, classify and sort materials into various product types, material handling and transportation to storage areas.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT: Control methods include equipment enclosures or enclosed within a building, a baghouse, water sprays, drop chutes and/or pant legs for transfer points.

I. EMISSION LIMITS

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. PM	0.04 lbs per 1000 lbs of exhaust gasses ^a	Test Protocol*	VF-30-120 VF-30-121 CR-30-130 CR-30-131 CB-30-140 CB-30-145	GC 13	R 336.1331, 40 CFR 52.21 (c) & (d)
2. PM	0.03 lbs per 1000 lbs of exhaust gasses ^a	Test Protocol*	CB-30-440 CR-30-430 CR-30-360	GC 13	R 336.1331, 40 CFR 52.21 (c) & (d)
3. PM-10	4.3 lbs per hour	Test Protocol*	VF-30-120 VF-30-121 CR-30-130 CR-30-131 CB-30-140 CB-30-145	GC 13	R 336.1331, 40 CFR 52.21 (c) & (d)
4. PM-10	3.0 lbs per hour	Test Protocol*	CB-30-440 CR-30-430 CR-30-360	GC 13	R 336.1331, 40 CFR 52.21 (c) & (d)
5. PM-10	13.2 tons per year	Test Protocol*	VF-30-120 VF-30-121 CR-30-130 CR-30-131 CB-30-140 CB-30-145	GC 13	R 336.1331, 40 CFR 52.21 (c) & (d)
6. PM-10	9.0 tons per year	Test Protocol*	CB-30-440 CR-30-430 CR-30-360	GC 13	R 336.1331, 40 CFR 52.21 (c) & (d)

^a Calculated on a dry gas basis

* Test protocol shall specify averaging time

7. Visible emissions from the drop point and transfer point portions of EUHICAL shall not exceed 10 percent opacity. **(R 336.1301, 40 CFR 52.21 (c) & (d), 40 CFR 60.670)**

II. MATERIAL LIMITS

1. The permittee shall not process any asbestos tailing or asbestos containing waste materials in EUHICAL 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 15,000,000 tons of limestone per 12-month rolling time period as determined at the end of each calendar month. **(40 CFR 52.21 (c) & (d))**

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee shall not operate EUHICAL unless the program for continuous fugitive emissions control 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)**
2. 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 EUHICAL. **(40 CFR Part 60 Subparts A & OOO)**
3. The permittee shall not operate any portion of EUHICAL unless each portion of EUHICAL meets the specific opacity limit listed in Appendix A of this permit. **(R 336.1301, 40 CFR 52.21 (c) & (d), 40 CFR 60.670)**
4. The permittee shall not operate EUHICAL for more than 6100 hours per 12-month rolling time period as determined at the end of each calendar month. **(R 336.1205(1) and (3))**

IV. DESIGN/EQUIPMENT PARAMETERS

1. The permittee shall not operate any portion of EUHICAL unless the equipment's specified control device is installed, maintained and operated in a satisfactory manner as listed in Appendix A. **(R 336.1910, 40 CFR 52.21 (c) & (d))**
2. The permittee shall install and maintain a belt scale on the transfer conveyor portion of EUHICAL which continuously shows the daily throughput rate for the conveyor. **(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 maximum production rate, but not later than 180 days after commencement of trial operation, the permittee shall evaluate visible emissions from EUHICAL, at owner's expense, in accordance with federal Standards of Performance for New Stationary Sources 40 CFR Part 60 Subparts A and OOO. Equipment previously certified as compliant under Subparts A and OOO are excluded from this requirement. The permittee must have prior approval from the AQD for visible emission observation procedures. Verification of visible emissions includes the submittal of a complete report of opacity observations to the AQD within 45 days following the last date of the evaluation. **(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 keep monthly records of the amount of limestone processed through EUHICAL. Further the permittee shall calculate on a monthly basis, the yearly throughput rate based upon the most recent 12-month rolling time period. Records of the amount of limestone processed shall be kept on file for a period of at least five years and made available to the Air Quality Division upon request. **(40 CFR 52.21 (c) & (d))**
2. The permittee shall keep the following information on a monthly basis for EUHICAL:
 - a) Hours of operation.
 - b) Hours of operation for the 12-month rolling time period as determined at the end of each calendar month.

The permittee shall keep the records on file at the facility, in a format acceptable to the AQD District Supervisor, and make them available to the Department upon request. **(40 CFR 52.21(c) & (d))**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTIONS

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

Stack & Vent ID	Maximum Exhaust Diameter/Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVSTACK1	48	15	40 CFR 52.21 (c) & (d)

IX. OTHER REQUIREMENTS

NA

The following conditions apply to:
EUROCKDRILLS

DESCRIPTION: Rock drills.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT: Associated baghouse/fabric filters.

I. EMISSION LIMITS

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. PM	3 lbs per 1000 lbs of exhaust gasses ^a	Test Protocol*	EUROCKDRILLS	GC 13	R 336.1331, 40 CFR 52.21 (c) & (d)
^a Calculated on a dry gas basis * Test protocol shall specify averaging time					

2. Visible emissions from each individual rock drill in EUROCKDRILLS shall not exceed 5 percent opacity. **(R 336.1301, 40 CFR 52.21(c) & (d))**

II. MATERIAL LIMITS

NA

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee shall not operate more than three rock drills simultaneously. **(40 CFR 52.21(c) & (d))**
2. The permittee shall not operate EUROCKDRILLS for more than 19,000 total hours per 12-month rolling time period as determined at the end of each calendar month. **(40 CFR 52.21(c) & (d))**

IV. DESIGN/EQUIPMENT PARAMETERS

1. The permittee shall not operate EUROCKDRILLS unless all respective exhaust filters are installed, maintained and operated in a satisfactory manner. **(R 336.1371, 40 CFR 52.21(c) & (d))**

V. TESTING/SAMPLING

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall keep the following information on a monthly basis for EUROCKDRILLS:
 - a) Hours of operation for each individual rock drill.
 - b) Hours of operation for all rock drills.
 - c) Hours of operation for all rock drills for the 12-month rolling time period as determined at the end of each calendar month.

The permittee shall keep the records on file at the facility, in a format acceptable to the AQD District Supervisor, and make them available to the Department upon request. **(40 CFR 52.21(c) & (d))**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTIONS

NA

IX. OTHER REQUIREMENTS

NA

The following conditions apply to:
EUTRUCKTRAFFIC

DESCRIPTION: Truck traffic for delivery of limestone products to customers, truck traffic from quarry pit to processing area and loader traffic associated with processing equipment, storage pile handling and loading delivery trucks. All commercial truck areas and unpaved road portions from the quarry pit to the process area.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT: Dust control is achieved by spraying water on roadways as necessary.

I. EMISSION LIMITS

1. Visible emissions from all wheel loaders and all truck traffic, operated in conjunction with EUTRUCKTRAFFIC, shall not exceed 5 percent opacity. **(R 336.1301, 40 CFR 52.21(c) & (d))**

II. MATERIAL LIMITS

NA

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee shall not operate EUTRUCKTRAFFIC unless the program for continuous fugitive emissions control 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 336.1372, Act 451 324.5524)**

IV. DESIGN/EQUIPMENT PARAMETERS

NA

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

NA

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTIONS

NA

IX. OTHER REQUIREMENTS

NA

The following conditions apply to:
EUSTORAGE

DESCRIPTION: Open area stock piles of various limestone sizes and product types.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT: Dust control is achieved by spraying water onto the materials when necessary.

I. EMISSION LIMITS

1. Visible emissions from each of the material storage piles maintained under EUSTORAGE shall not exceed 5 percent opacity. **(R 336.1301, 40 CFR 52.21(c) & (d))**

II. MATERIAL LIMITS

NA

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee shall not operate EUSTORAGE unless the program for continuous fugitive emissions control 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 336.1372, Act 451 324.5524)**

IV. DESIGN/EQUIPMENT PARAMETERS

NA

V. TESTING/SAMPLING

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

NA

VI. MONITORING/RECORDKEEPING

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

NA

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTIONS

NA

IX. OTHER REQUIREMENTS

NA

APPENDIX A

Opacity Emission Limits For Specific Equipment

Equipment Description	ID Number	Opacity Limit	Control Device
5x24 Grizzly Feeder	VF-30-120	7%	Baghouse
5x24 Grizzly Feeder	VF-30-121	7%	Baghouse
Horizontal Impact Crusher	CR-30-130	7%	Baghouse
Horizontal Impact Crusher	CR-30-131	7%	Baghouse
60" Conveyor	CB-30-140	7%	Baghouse
60" Conveyor	CB-30-145	7%	Baghouse
60" Conveyor	CB-30-150	10%	Water Sprays
Dust Collector	DC-30-160		
Dust Collector Fan	FAN-30-161		
Rotary Air Lock	RAL-30-163		
60" Conveyor	CB-30-170	10%	Water Sprays
36" Conveyor Recycle Hopper	CB-30-210	10%	Water Sprays
36" Conveyor Recycle Hopper	CB-30-211	10%	Water Sprays
Vibratory Feeder	VF-30-201	10%	Tunnel
Vibratory Feeder	VF-30-220	10%	Tunnel
Vibratory Feeder	VF-30-229	10%	Tunnel
Vibratory Feeder	VF-30-239	10%	Tunnel
60" Conveyor	CB-30-230	10%	Tunnel
60" Conveyor	CB-30-240	10%	Water Sprays
30" Conveyor	CB-30-260	10%	
30" Conveyor	CB-30-261	10%	
Gyratory Crusher	CR-30-245	15%	Water Sprays
48" Conveyor	CB-30-246	10%	Water Sprays
48" Conveyor	CB-30-247	10%	Water Sprays
60" Conveyor	CB-30-250	10%	Water Sprays
8x20 Triple Deck	SCN-30-310	10%	Water Sprays
8x20 Triple Deck	SCN-30-320	10%	Water Sprays
Vibratory Feeder	VF-30-350	10%	Water Sprays
Tertiary Crusher	CR-30-360	7%	Baghouse or Water Sprays
8x24 Triple Deck	SCN-30-370	10%	Water Sprays
8x24 Triple Deck	SCN-30-380	10%	Water Sprays
Vibratory Feeder	VF-30-420	10%	Water Sprays
Tertiary Crusher	CR-30-430	7%	Baghouse or Water Sprays
42" Conveyor	CB-30-440	7%	Baghouse or Water Sprays
36" Conveyor	CB-30-450	10%	Water Sprays
36" Conveyor	CB-30-501	10%	Wet Product
36" Conveyor	CB-30-510	10%	Wet Product
36" Conveyor	CB-30-520	10%	Wet Product
36" Conveyor	CB-30-539	10%	Wet Product
36" Conveyor	CB-30-540	10%	Wet Product
36" Conveyor	CB-30-550	10%	Wet Product

Equipment Description	ID Number	Opacity Limit	Control Device
36" Conveyor	CB-30-560	10%	Wet Product
36" Conveyor	CB-30-570	10%	Wet Product
36" Conveyor	CB-30-580	10%	Wet Product
36" Conveyor	CB-30-590	10%	Wet Product
36" Conveyor	CB-30-600	10%	Wet Product
36" Conveyor	CB-30-610	10%	Wet Product
36" Conveyor	CB-30-620	10%	Wet Product
8x20 Double Deck Scalping Screen	SCN-30-660	10%	Water Sprays
36" Conveyor	CB-40-140	10%	Wet Product
36" Conveyor	CB-40-160	10%	Wet Product
42" Conveyor	CB-40-170	10%	Wet Product
48" Conveyor	CB-40-180	10%	Wet Product
48" Conveyor	CB-40-190	10%	Wet Product
42" Conveyor	CB-40-210	10%	Wet Product
48" Conveyor	CB-40-220	10%	Wet Product
42" Conveyor	CB-40-260	10%	Wet Product
48" Conveyor	CB-40-270	10%	Wet Product
42" Conveyor	CB-40-280	10%	Wet Product
48" Conveyor	CB-40-290	10%	Wet Product
48" Conveyor	T1N	10%	Tunnel
48" Conveyor	T1S	10%	Tunnel
48" Conveyor	T2N	10%	Tunnel
48" Conveyor	T2S	10%	Tunnel
48" Conveyor	T3N	10%	Tunnel
48" Conveyor	T3S	10%	Tunnel
48" Conveyor	T4N	10%	Tunnel
48" Conveyor	T4S	10%	Tunnel
48" Conveyor	T5N	10%	Tunnel
48" Conveyor	T5S	10%	Tunnel
48" Conveyor	T6N	10%	Tunnel
48" Conveyor	T6S	10%	Tunnel
48" Conveyor	T7SW	10%	Tunnel
48" Conveyor	T8	10%	Tunnel
60" Conveyor	D3	10%	Tunnel
60" Conveyor	E1	10%	Building Enclosure
60" Conveyor	E3	10%	Water Sprays
36" Conveyor	Short Waste	10%	Building Enclosure
36" Conveyor	Car Waste	10%	Building Enclosure
36" Conveyor	Long Waste	10%	Water Sprays
30" Conveyor	Ag Lime	10%	
42" Conveyor	CB-30-432	7%	Water Sprays
Vibrating Feeder	VF-30-436	7%	Water Sprays
McLanahan 36" x 72" Roll Crusher	CR-30-438	12%	Water Sprays
Cyclone	CY-800	10%	Wet Product 150 tons per hour
Cyclone	CY-801	10%	Wet Product 150 tons per hour
8x20 Triple Deck	SCN-30-810	10%	Water Sprays 300 tons per hour

Equipment Description	ID Number	Opacity Limit	Control Device
Double Screw Classifier	SCC-30-840	10%	Wet Product
36" Conveyor	CB-36-820	7%	Wet Product 100 tons per hour
36" Conveyor	CB-36-830	7%	Wet Product 100 tons per hour
36" Conveyor	CB-36-850	10%	Wet Product 200 tons per hour
8x20 Screen	Boat End Screen	10%	Wet Product 4000 tons per hour
Tunnel Drag Chain	Tunnel Drag	10%	Wet Product 10 tons per hour

APPENDIX B

Fugitive Dust Control Plan

I. Site Roadways / Plant Yard

- A. The dust on the site roadways/plant yard shall be controlled by applications of water, calcium chloride or other acceptable and approved fugitive dust control compounds. Applications of dust suppressants shall be done as often as necessary to meet all applicable emission limits.
- B. Applicant shall equip and maintain a dedicated water tank truck with a spray bar for application of water for fugitive dust control.
- C. All paved roadways/plant yards shall be swept as needed between applications of dust suppressants.
- D. Any material spillage on roads shall be cleaned up immediately.
- E. A record of all applications of dust suppressants and roadway and the plant yard sweepings shall be kept on file for the most recent five year period and be made available to the AQD upon request.

II. Plant

- A. 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 five percent. Also, 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 of all watering shall be kept on file and be made available to the AQD upon request.

IV. Truck Traffic

- A. On-site commercial trucks: 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 tail gate, otherwise, the truck shall be tarped.

V. AQD/MDEQ Inspection

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