STATE OF MISSOURI

DEPARTMENT OF NATURAL RESOURCES

MISSOURI AIR CONSERVATION COMMISSION

PERMIT TO CONSTRUCT

Under the authority of RSMo 643 and the Federal Clean Air Act the applicant is authorized to construct the air contaminant source(s) described below, in accordance with the laws, rules and conditions as set forth herein.

Permit Number: 032014-005
Project Number: 2013-12-015
Installation ID: PORT-0655

Parent Company: Metro Materials, Inc.
Parent Company Address: 323 Josephville Road, Wentzville, MO 63385
Installation Name: Metro Materials, Inc. PORT-0655
Installation Address: Miller School Road, Weldon Spring, MO 63304
Location Information: St. Charles County, S28 T46N R3E

Application for Authority to Construct was made for: Installation of a new portable concrete plant. This review was conducted in accordance with Section (5), Missouri State Rule 10 CSR 10-6.060, Construction Permits Required.

☐ Standard Conditions (on reverse) are applicable to this permit.
☐ Standard Conditions (on reverse) and Special Conditions are applicable to this permit.

MAR 17 2014
EFFECTIVE DATE

DIRECTOR OR DESIGNEE
DEPARTMENT OF NATURAL RESOURCES
STANDARD CONDITIONS:

Permission to construct may be revoked if you fail to begin construction or modification within two years from the effective date of this permit. Permittee should notify the Air Pollution Control Program if construction or modification is not started within two years after the effective date of this permit, or if construction or modification is suspended for one year or more.

You will be in violation of 10 CSR 10-6.060 if you fail to adhere to the specifications and conditions listed in your application, this permit and the project review. In the event that there is a discrepancy between the permit application and this permit, the conditions of this permit shall take precedence. Specifically, all air contaminant control devices shall be operated and maintained as specified in the application, associated plans and specifications.

You must notify the Department’s Air Pollution Control Program of the anticipated date of start up of this (these) air contaminant sources(s). The information must be made available within 30 days of actual startup. Also, you must notify the Department of Natural Resources Regional office responsible for the area within which you are located within 15 days after the actual start up of this (these) air contaminant source(s).

A copy of this permit and permit review shall be kept at the installation address and shall be made available to Department of Natural Resources' personnel upon request.

You may appeal this permit or any of the listed special conditions to the Administrative Hearing Commission (AHC), P.O. Box 1557, Jefferson City, MO 65102, as provided in RSMo 643.075.6 and 621.250.3. If you choose to appeal, you must file a petition with the AHC within 30 days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed. If it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the AHC.

If you choose not to appeal, this certificate, the project review and your application and associated correspondence constitutes your permit to construct. The permit allows you to construct and operate your air contaminant sources(s), but in no way relieves you of your obligation to comply with all applicable provisions of the Missouri Air Conservation Law, regulations of the Missouri Department of Natural Resources and other applicable federal, state and local laws and ordinances.

The Air Pollution Control Program invites your questions regarding this air pollution permit. Please contact the Construction Permit Unit at (573) 751-4817. If you prefer to write, please address your correspondence to the Missouri Department of Natural Resources, Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102-0176, attention: Construction Permit Unit.
GENERAL SPECIAL CONDITIONS:
The permittee is authorized to construct and operate subject to the following special conditions:

The special conditions listed in this permit were included based on the authority granted the Missouri Air Pollution Control Program by the Missouri Air Conservation Law (specifically 643.075) and by the Missouri Rules listed in Title 10, Division 10 of the Code of State Regulations (specifically 10 CSR 10-6.060). For specific details regarding conditions, see 10 CSR 10-6.060 paragraph (12)(A)10. “Conditions required by permitting authority.”

1. Equipment Identification Requirement
   Metro Materials, Inc. PORT-0655 shall maintain easily read permanent markings on each component of the plant. These markings shall be the equipment’s serial number or a company assigned identification number that uniquely identifies the individual component. These identification numbers must be submitted to the Air Pollution Control Program no later than 15 days after start-up of the portable concrete plant.

2. Relocation of Portable Concrete Plant
   A. Metro Materials, Inc. PORT-0655 shall not be operated at any location longer than 24 consecutive months except if the Site Specific Special Conditions of this portable plant, PORT-0655, contain a nonroad engine requirement limiting the portable plant’s engine at the site specific location to 12 consecutive months.

   B. A complete “Portable Source Relocation Request” application must be submitted to the Air Pollution Control Program prior to any relocation of this portable concrete plant.
      1) If the portable concrete plant is moving to a site previously permitted, and if the circumstances at the site have not changed, then the application must be received by the Air Pollution Control Program at least seven days prior to the relocation.

      2) If the portable concrete plant is moving to a new site, or if circumstances at the site have changed (e.g. the site was only permitted for solitary operation and now another plant is located at the site), then the application must be received by the Air Pollution Control Program at least 21 days prior to the relocation. The application must include written notification of any concurrently operating plants.

3. Record Keeping Requirement
   Metro Materials, Inc. PORT-0655 shall maintain all records required by this permit for not less than five years and shall make them available to any Missouri Department of Natural Resources’ personnel upon request.

4. Reporting Requirement
   Metro Materials, Inc. PORT-0655 shall report to the Air Pollution Control Program Enforcement Section P.O. Box 176, Jefferson City, MO 65102, no later than 10 days after any exceedances of the limitations imposed by this permit.
SITE SPECIFIC SPECIAL CONDITIONS:
The permittee is authorized to construct and operate subject to the following special conditions:

The special conditions listed in this permit were included based on the authority granted the Missouri Air Pollution Control Program by the Missouri Air Conservation Law (specifically 643.075) and by the Missouri Rules listed in Title 10, Division 10 of the Code of State Regulations (specifically 10 CSR 10-6.060). For specific details regarding conditions, see 10 CSR 10-6.060 paragraph (12)(A)10. "Conditions required by permitting authority."

PORT ID Number: PORT-0655
Site ID Number: 183-0258
Site Name: Weldon Spring
Site Address: Miller School Road, Weldon Spring, MO 63304
Site County: St. Charles County,S28 T46N R3E

1. Best Management Practices Requirement
   Metro Materials, Inc. PORT-0655 shall control fugitive emissions from all of the haul roads and vehicular activity areas at this site by performing BMPs as defined in Attachment AA.

2. Ambient Air Impact Limitation
   A. Metro Materials, Inc. PORT-0655 shall not cause an exceedance of the NAAQS for PM$_{10}$ of 150.0 µg/m$^3$ 24-hour average in ambient air.
   B. Metro Materials, Inc. PORT-0655 shall demonstrate compliance with Special Condition 2.A using Attachment A or other equivalent forms that have been approved by the Air Pollution Control Program, including an electronic form.

3. Moisture Content Testing Requirement
   A. Metro Materials, Inc. PORT-0655 shall verify that the moisture content of the processed rock is greater than or equal to 2.0 percent by weight.
   B. Testing shall be conducted according to the method prescribed by the American Society for Testing Materials (ASTM) D-2216, C-566 or another method approved by the Director.
   C. The initial test shall be conducted no later than 45 days after the start of operation. A second test shall be performed the calendar year following the initial test during the months of July or August.
   D. The test samples shall be taken from rock that has been processed by the plant or from each source of aggregate (e.g. quarry).
   E. The written analytical report shall include the raw data and moisture content of each sample, the test date and the original signature of the individual performing the test. The report shall be filed on-site or at the Metro Materials, Inc. PORT-0655 main office within 30 days of completion of the required test.
F. If the moisture content of either of the two tests is less than the moisture content in Special Condition 3.A, another test may be performed within 15 days of the noncompliant test. If the results of that test also exceed the limit, Metro Materials, Inc. PORT-0655 shall either:
   1) Apply for a new permit to account for the revised information, or
   2) Submit a plan for the installation of wet spray devices to the Compliance/Enforcement Section of the Air Pollution Control Program within 10 days of the second noncompliant test. The wet spray devices shall be installed and operational within 40 days of the second noncompliant test.

G. In lieu of testing, Metro Materials, Inc. PORT-0655 may obtain test results that demonstrate compliance with the moisture content in Special Condition 3.A from the supplier of the aggregate.

4. Control Device Requirement-Baghouse
   A. Metro Materials, Inc. PORT-0655 shall control emissions from the equipment listed below using baghouses as specified in the permit application.
      1) Cement Silo (EP-3)
      2) Supplement Silo (EP-4)
      3) Weigh Hopper (EP-5)
      4) Truck Mix Loadout (shroud vented to baghouse) (EP-6)

   B. The baghouses shall be operated and maintained in accordance with the manufacturer's specifications. The baghouse shall be equipped with a gauge or meter, which indicates the pressure drop across the control device. These gauges or meters shall be located such that Department of Natural Resources employees may easily observe them.

   C. Replacement filters for the baghouses shall be kept on hand at all times. The bags shall be made of fibers appropriate for operating conditions expected to occur (i.e. temperature limits, acidic and alkali resistance, and abrasion resistance).

   D. Metro Materials, Inc. PORT-0655 shall monitor and record the operating pressure drop across the baghouses at least once every 24 hours. The operating pressure drop shall be maintained within the design conditions specified by the manufacturer's performance warranty.

   E. Metro Materials, Inc. PORT-0655 shall maintain a copy of the baghouse manufacturer's performance warranty on site.
SITE SPECIFIC SPECIAL CONDITIONS:
The permittee is authorized to construct and operate subject to the following special conditions:

F. Metro Materials, Inc. PORT-0655 shall maintain an operating and maintenance log for the baghouses which shall include the following:
   1) Incidents of malfunction, with impact on emissions, duration of event, probable cause, and corrective actions; and
   2) Maintenance activities, with inspection schedule, repair actions, and replacements, etc.

5. Minimum Distance to Property Boundary Requirement
   The primary emission point (Truck Loading, EP-6) shall be located at least 130 feet from the nearest property boundary.

6. Concurrent Operation Restriction
   Metro Materials, Inc. PORT-0655 is prohibited from operating whenever other plants are located at the site.

7. Record Keeping Requirement
   Metro Materials, Inc. PORT-0655 shall maintain all records required by this permit for not less than five years and make them available to any Missouri Department of Natural Resources personnel upon request.

8. Reporting Requirement
   Metro Materials, Inc. PORT-0655 shall report to the Air Pollution Control Program Enforcement Section P.O. Box 176, Jefferson City, MO 65102, no later than 10 days after any exceedances of the limitations imposed by this permit.
REVIEW OF APPLICATION FOR AUTHORITY TO CONSTRUCT AND OPERATE
SECTION (5) REVIEW
Project Number: 2013-12-015
Installation ID Number: PORT-0655
Permit Number:

Metro Materials, Inc. PORT-0655 Complete: December 11, 2013
Miller School Road
Weldon Spring, MO 63304

Parent Company:
Metro Materials, Inc.
323 Josephville Road
Wentzville, MO 63385

St. Charles County, S28 T46N R3E

PROJECT DESCRIPTION

This project is for a new portable (PORT-0655) concrete truck mix plant. This portable plant is to be initially located at a site near Weldon Spring, MO (St. Charles County). The new plant is McNeilus Model MTM 12 CY ready mix concrete plant, rated at 150 cubic yards/hour (301.8 tons/hour), S/N C-4422, manufactured in 2004, with dust collectors for each silo and for the cement weigh hopper, and a Model CLPC central dust collector for the truck loading and aggregate/sand weigh hopper. This plant will also have a diesel-fired water heater, rated at 2.8 MMBtu/hr. The portable plant will be powered from the grid. A diesel engine will be brought on site and power the portable plant only if power is interrupted from the grid. The diesel engine meets the definition of non-road engine as defined in 40 CFR 89.2 (1)(i). Therefore, the emissions of the engine were not included. Although a portable plant is allowed to operate at a site for 24 consecutive months, the diesel engine is only allowed to operate at this site for 12 consecutive months in order for the diesel engine to be classified as a non-road engine.

Metro Materials, Inc. plans to operate PORT-0654 (Con-E-Co) (Project 2013-12-009) at Weldon Springs while PORT-0655 (McNeilus) is being set up. These two plants will not operate at the same time. Once PORT-0655 (McNeilus) plant is ready to start up, they will relocate PORT-0654 (Con-E-Co) to a different site, leaving only PORT-0655 (McNeilus) at this site.

Metro Materials, Inc. is using one of the methods described in Attachment AA, “Best Management Practices,” to control emissions from haul roads and vehicular activity areas. They will also conduct moisture content testing of the aggregate to achieve a level of 2% moisture content by weight.

This installation is located in St. Charles County, a nonattainment area for the 8-hour ozone standard and the PM$_{2.5}$ standard and an attainment area for all other criteria pollutants.
This installation is not on the List of Named Installations found in 10 CSR 10-6.020(3)(B), Table 2.

No permits have been issued to Metro Materials, Inc. PORT-0655 from the Air Pollution Control Program.

**TABLES**

The table below summarizes the emissions of this project. The potential emissions of the process equipment, which excluded emissions from haul roads and wind erosion, are not site specific and should not vary from site to site as long as the power source/engine status remains the same. There are no existing actual emissions since this project is for a new portable plant. The potential emissions of the application represent the emissions of all equipment and activities assuming continuous operation (8760 hours per year).

Table 1: Emissions Summary (tons per year)

<table>
<thead>
<tr>
<th>Air Pollutant</th>
<th>De Minimis Level/SMAL</th>
<th>Potential Emissions of Process Equipment (tons/yr)</th>
<th>Existing Actual Emissions</th>
<th>aPotential Emissions Including Fugitives</th>
<th>bConditioned Potential Emissions</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM</td>
<td>25.0</td>
<td>20.13</td>
<td>N/A</td>
<td>69.62</td>
<td>16.54</td>
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<tr>
<td>PM_{10}</td>
<td>15.0</td>
<td>6.38</td>
<td>N/A</td>
<td>22.42</td>
<td>5.33</td>
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<tr>
<td>PM_{2.5}</td>
<td>10.0</td>
<td>4.41</td>
<td>N/A</td>
<td>12.17</td>
<td>2.89</td>
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<tr>
<td>SOX</td>
<td>40.0</td>
<td>0.0</td>
<td>N/A</td>
<td>0.0</td>
<td>0.0</td>
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<td>NOX</td>
<td>40.0</td>
<td>1.20</td>
<td>N/A</td>
<td>1.20</td>
<td>0.29</td>
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<td>VOC</td>
<td>40.0</td>
<td>0.07</td>
<td>N/A</td>
<td>0.07</td>
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<td>CO</td>
<td>100.0</td>
<td>1.01</td>
<td>N/A</td>
<td>1.01</td>
<td>0.24</td>
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<td>CO₂</td>
<td>N/A</td>
<td>1442.82</td>
<td>N/A</td>
<td>1442.82</td>
<td>342.81</td>
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<tr>
<td>CH₄</td>
<td>N/A</td>
<td>0.03</td>
<td>N/A</td>
<td>0.03</td>
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<td>N₂O</td>
<td>N/A</td>
<td>0.026</td>
<td>N/A</td>
<td>0.26</td>
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<td>GHG (CO₂e)</td>
<td>75,000 / 100,000</td>
<td>1525.40</td>
<td>N/A</td>
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<td>362.43</td>
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<td>GHG (mass)</td>
<td>0.0 / 100.0 / 250.0</td>
<td>1442.88</td>
<td>N/A</td>
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<td>342.88</td>
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<tr>
<td>Total HAPs</td>
<td>25.0</td>
<td>0.02</td>
<td>N/A</td>
<td>0.02</td>
<td>0.01</td>
</tr>
</tbody>
</table>

N/A = Not Applicable;

aIncludes site specific haul road and storage pile emissions

bConditioned Potential Emissions are based on control devices and ambient air limit to show compliance with NAAQS

Table 2 summarizes the ambient air quality impact analysis. The maximum modeled impact is the impact of each pollutant when the plant is operating continuously. The 24-hour limited impacts and daily limit are based on compliance with the NAAQS for PM_{10}. 

Page 8
Table 2: Ambient Air Quality Impact Analysis

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>$^a$NAAQS/RAL (µg/m$^3$)</th>
<th>Averaging Time</th>
<th>$^b$Maximum Modeled Impact (µg/m$^3$)</th>
<th>Limited Impact (µg/m$^3$)</th>
<th>Background (µg/m$^3$)</th>
<th>$^c$Daily Limit (tons/day)</th>
</tr>
</thead>
<tbody>
<tr>
<td>$^a$PM$_{10}$ (solitary)</td>
<td>150.0</td>
<td>24-hour</td>
<td>634.72</td>
<td>130.0</td>
<td>20.0</td>
<td>1,710.7</td>
</tr>
</tbody>
</table>

$a$ National Ambient Air Quality Standards (NAAQS)
$b$ Modeled impact at maximum capacity with controls
$c$ Indirect limit based on compliance with NAAQS.
$d$ Concurrent operation is prohibited

EMISSIONS CALCULATIONS

Emissions for the project were calculated using emission factors found in the United States EPA document AP-42 *Compilation of Air Pollutant Emission Factors, Volume 1: Stationary Point and Area Sources*, Fifth Edition (AP-42).

Emissions from the concrete batch plant were calculated using emission factors from AP-42 Section 11.12 “Concrete Batching,” June 2006. This section cites Equation (1) in Section 13.2.4 “Aggregate Handling and Storage Piles,” November 2006 for calculating the emissions from aggregate and sand transfer. The cement and supplement silos are controlled with baghouses, so the controlled emission factors were used. Emissions from the aggregate weigh hopper were calculated using AP-42 Section 13.2.4, Equation (1). These emissions are controlled by a baghouse so a 99% control efficiency was applied to the calculation. Emissions from mix truck loading are controlled by a shroud vented to a baghouse, so the controlled emission factor was used.

The engine emissions were not evaluated for this review as the diesel engine at this site is classified as a nonroad engine. 40 CFR 63 Subpart ZZZZ, “National Emission Standard for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines” and 40 CFR 60 Subpart III, “Standards of Performance for Stationary Compression Ignition Internal Combustion Engines” do not apply. However, if the plant were to remain in one location for longer than 12 consecutive months, it would not be in compliance with this permit because engine emissions were not evaluated. It may also not be in compliance with MACT ZZZZ or NSPS III. The nonroad engine is subject to further applicable requirements in 40 CFR 89 and 40 CFR 1039 which are outside the purview of this program.

Emissions from haul roads and vehicular activity areas were calculated using the predictive equation from AP-42 Section 13.2.2 “Unpaved Roads,” November 2006. A 90% control efficiency for PM and PM$_{10}$ and a 40% control efficiency for PM$_{2.5}$ were applied to the emission calculations for the use of BMPs. Emissions from load-in and load-out of storage piles were calculated using the predictive equation from AP-42 Section 13.2.4. The moisture content of the aggregate is 2.0% by weight. Emissions from wind erosion of storage piles were calculated using an equation found in the Air Pollution Control Program’s Emissions Inventory Questionnaire Form 2.8 “Storage Pile Worksheet.”
AMBIENT AIR QUALITY IMPACT ANALYSIS

An ambient air quality impact analysis (AAQIA) was performed to determine the impact of the pollutants listed in Table 2. The Air Pollution Control Program requires an AAQIA of PM$_{10}$ for all asphalt, concrete and rock-crushing plants regardless of the level of PM$_{10}$ emissions if a permit is required. An AAQIA is required for other pollutants if their emissions exceed their respective de minimis or screening model action level (SMAL). The AAQIA was performed using the Air Pollution Control Program’s generic nomographs and when appropriate the EPA modeling software AERSCREEN. For each pollutant that was modeled, the maximum concentration that occurs at or beyond the site boundary was compared to the NAAQS or RAL for the pollutant. If during continuous operation the modeled concentration of a pollutant is greater than the applicable NAAQS or RAL, the plant’s production is limited to ensure compliance with the standard.

This plant uses BMPs to control emissions from haul roads and vehicular activity areas, so emissions from these sources were not included in the AAQIA. Instead they were addressed as a background concentration of 20 µg/m$^3$ of PM$_{10}$ in accordance with the Air Pollution Control Program’s BMPs interim policy.

Operating Scenarios

The plant is not permitted to operate with other plants located at the site as stated in Site-Specific Special Condition 6.

PERMIT RULE APPLICABILITY

This review was conducted in accordance with Section (5) of Missouri State Rule 10 CSR 10-6.060, Construction Permits Required. Potential emissions of PM, PM$_{10}$, PM$_{2.5}$ are indirectly conditioned to de minimis.

APPLICABLE REQUIREMENTS

Metro Materials, Inc. PORT-0655 shall comply with the following applicable requirements. The Missouri Air Conservation Laws and Regulations should be consulted for specific record keeping, monitoring, and reporting requirements. Compliance with these emission standards, based on information submitted in the application, has been verified at the time this application was approved.

GENERAL REQUIREMENTS

- Submission of Emission Data, Emission Fees and Process Information, 10 CSR 10-6.110.

- Portable plants are exempt from obtaining an Operating Permit.
• Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin, 10 CSR 10-6.170

• Restriction of Emission of Visible Air Contaminants, 10 CSR 10-6.220

• Restriction of Emission of Odors, 10 CSR 10-6.165

SPECIFIC REQUIREMENTS

• None of the New Source Performance Standards (NSPS) apply to the installation.

• None of the National Emission Standards for Hazardous Air Pollutants (NESHAPS) or National Emission Standards for Hazardous Air Pollutants for Source Categories (MACTS) apply to the proposed equipment.

STAFF RECOMMENDATION

On the basis of this review conducted in accordance with Section (5), Missouri State Rule 10 CSR 10-6.060, Construction Permits Required, I recommend this permit be granted with special conditions.

Kathy Kolb
New Source Review Unit

Date

PERMIT DOCUMENTS

The following documents are incorporated by reference into this permit:

• The Application for Authority to Construct form, dated December 7, 2013, received December 11, 2013, designating Metro Materials, Inc. as the owner and operator of the installation.

### Attachment A: Ambient Impact Tracking Sheet

For Solitary Operation

Metro Materials, Inc. PORT-0655

Project Number: 2013-12-015

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**Site Name:** Weldon Spring  
**Site Address:** Miller School Road, Weldon Spring, MO 63304  
**Site County:** St. Charles County, S28 T46N R3E

This sheet covers the period from (Month, Day Year) to (Month, Day Year) (Copy as needed)

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<table>
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<tr>
<th>Date</th>
<th>Metro Materials, Inc. PORT-0655 PORT-0655</th>
<th>Same Owner Plant</th>
<th>Same Owner Plant</th>
<th>Same Owner Plant</th>
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<tr>
<td></td>
<td>Daily Production (tons)</td>
<td>Impact Factor (µg/m³/ton)</td>
<td>Impact¹ (µg/m³)</td>
<td>Impact² (µg/m³)</td>
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<td>1,500</td>
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<td>114.0</td>
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</tbody>
</table>

¹Calculate the impact for PORT-0655 by multiplying the daily production by the impact factor.
²Metro Materials, Inc. is prohibited from concurrent operations at this site.
³Calculate the total impact by adding the applicable impacts and background. A total of 150.0 µg/m³ or less is necessary for compliance.
Attachment AA: Best Management Practices

Haul roads and vehicular activity areas shall be maintained in accordance with at least one of the following options when the plant is operating.

1. Pavement
   A. The operator shall pave the area with materials such as asphalt, concrete or other materials approved by the Air Pollution Control Program. The pavement will be applied in accordance with industry standards to achieve control of fugitive emissions while the plant is operating.
   B. Maintenance and repair of the road surface will be conducted as necessary to ensure that the physical integrity of the pavement is adequate to achieve control of fugitive emissions from these areas while the plant is operating.
   C. The operator shall periodically wash or otherwise clean all of the paved portions of the haul roads as necessary to achieve control of fugitive emissions from these areas while the plant is operating.

2. Application of Chemical Dust Suppressants
   A. The operator shall apply a chemical dust suppressant (such as magnesium chloride, calcium chloride, lignosulfonates, etc.) to unpaved areas.
   B. The quantities of the chemical dust suppressant shall be applied and maintained in accordance with the manufacturer’s recommendation (if available) and in sufficient quantities to achieve control of fugitive emissions from these areas while the plant is operating.
   C. The operator shall record the time, date and the amount of material applied for each application of the chemical dust suppressant agent on the above areas. The operator shall keep these records with the plant for not less than five (5) years and make these records available to Department of Natural Resources personnel upon request.

3. Application of Water-Documented Daily
   A. The operator shall apply water to unpaved areas. Water shall be applied at a rate of 100 gallons per day per 1,000 square feet of unpaved or untreated surface area while the plant is operating.
   B. Precipitation may be substituted for watering if the precipitation is greater than one quarter of one inch and is sufficient to control fugitive emissions.
   C. Watering may also be suspended when the ground is frozen, during periods of freezing conditions when watering would be inadvisable for traffic safety reasons, or when there will be no traffic on the roads.
   D. The operator shall record the date, volume of water application and total surface area of active haul roads or the amount of precipitation that day. The operators shall also record the rational for not watering (e.g. freezing conditions or not operating).
   E. The operator shall keep these records with the plant for not less than five (5) years, and the operator shall make these records available to Department of Natural Resources personnel upon request.
APPENDIX A
Abbreviations and Acronyms

% ............ percent
°F ............ degrees Fahrenheit
acfm ........ actual cubic feet per minute
BACT ....... Best Available Control Technology
BMPs ....... Best Management Practices
Btu......... British thermal unit
CAM ......... Compliance Assurance Monitoring
CAS .......... Chemical Abstracts Service
CEMS ....... Continuous Emission Monitor System
CFR .......... Code of Federal Regulations
CO .......... carbon monoxide
CO₂ .......... carbon dioxide
CO₂e ....... carbon dioxide equivalent
COMS ....... Continuous Opacity Monitoring System
CSR .......... Code of State Regulations
dscf .......... dry standard cubic feet
EIQ .......... Emission Inventory Questionnaire
EP .......... Emission Point
EPA ........ Environmental Protection Agency
EU .......... Emission Unit
fps .......... feet per second
ft .......... feet
GACT ....... Generally Available Control Technology
GHG ......... Greenhouse Gas
gpm .......... gallons per minute
gr .......... grains
GWP ......... Global Warming Potential
HAP .......... Hazardous Air Pollutant
hr .......... hour
hp .......... horsepower
lb .......... pound
lbs/hr ...... pounds per hour
MACT ...... Maximum Achievable Control Technology
µg/m³ .... micrograms per cubic meter
m/s .......... meters per second
Mgal ........ 1,000 gallons
MW .......... megawatt
MHDR ....... maximum hourly design rate

MMBtu .... Million British thermal units
MMCF .... million cubic feet
MSDS ..... Material Safety Data Sheet
NAAQS ... National Ambient Air Quality Standards
NESHAPs .. National Emissions Standards for Hazardous Air Pollutants
NOₓ ......... nitrogen oxides
NSPS ...... New Source Performance Standards
NSR ...... New Source Review
PM .......... particulate matter
PM₁₀ ....... particulate matter less than 10 microns in aerodynamic diameter
PM₂.₅ ....... particulate matter less than 2.5 microns in aerodynamic diameter
ppm .......... parts per million
PSD ....... Prevention of Significant Deterioration
PTE ........ potential to emit
RACT ...... Reasonable Available Control Technology
RAL ....... Risk Assessment Level
SCC ......... Source Classification Code
SCC ......... standard cubic feet per minute
SIC .......... Standard Industrial Classification
SIP ........ State Implementation Plan
SMAL ...... Screening Model Action Levels
SOₓ ......... sulfur oxides
SO₂ ......... sulfur dioxide
tph .......... tons per hour
tpy .......... tons per year
VMT ...... vehicle miles traveled
VOC ...... Volatile Organic Compound
Mr. Jim Lohse, Jr.
Owner
Metro Materials, Inc. PORT-0655
323 Josephville Road
Wentzville, MO 63385

RE: New Source Review Permit - Project Number: 2013-12-015

Dear Mr. Lohse, Jr.:

Enclosed with this letter is your permit to construct. Please study it carefully. Also, note the special conditions on the accompanying pages. The document entitled, "Review of Application for Authority to Construct," is part of the permit and should be kept with this permit in your files. Operation in accordance with these conditions and your new source review permit application is necessary for continued compliance. The reverse side of your permit certificate has important information concerning standard permit conditions and your rights and obligations under the laws and regulations of the State of Missouri.

If you have any questions, please do not hesitate to contact Kathy Kolb at the department’s Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102 or at (573) 751-4817. Thank you for your attention to this matter.

Sincerely,

AIR POLLUTION CONTROL PROGRAM

Susan Heckenkamp
New Source Review Unit Chief

SH:kkl

Enclosures

c: St. Louis Regional Office
PAMS File: 2013-12-015

Permit Number: