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: 07 2 0 1 8 - 0 0 4  
Project Number: 2018-01-037
Installation ID: PORT-0764

Parent Company: Delta Companies Inc.

Parent Company Address: PO Box 637, Cape Girardeau, MO 63702

Installation Name: Delta Asphalt

Installation Address: 1078 S. Washington Street, Hayti, MO 63851

Location Information: Pemiscot County, S3 T18N R12

Application for Authority to Construct was made for:
Portable Asphalt Plant. This review was conducted in accordance with Section (6), 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.

Prepared by
Kathy Koib
New Source Review Unit

Director or Designee
Department of Natural Resources

JUL 10 2018
Effective Date
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 Enforcement and Compliance Section of 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 Enforcement and Compliance Section of the Department's Air Pollution Control Program of the anticipated date of start up of this (these) air contaminant source(s). The information must be made available within 30 days of actual start up. Also, you must notify the Department's 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 the permit application and this permit and permit review shall be kept at the installation address and shall be made available to Department's 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 source(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 using the contact information below.

Contact Information:
Missouri Department of Natural Resources
Air Pollution Control Program
P.O. Box 176
Jefferson City, MO 65102-0176
(573) 751-4817

The regional office information can be found at the following website: http://dnr.mo.gov/regions/
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. Relocation of Portable Asphalt plant
   A. Delta Asphalt shall not be operated at any location longer than 24 consecutive months except if the Site Specific Special Conditions of this portable plant, PORT-0764, contain a nonroad engine requirement limiting the portable plant 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 rock crushing plant.
      1) If the portable asphalt 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 asphalt 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.

2. Record Keeping Requirement
   Delta Asphalt 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.

3. Reporting Requirement
   Delta Asphalt shall report to the Air Pollution Control Program Compliance/Enforcement Section by mail at P.O. Box 176, Jefferson City, MO 65102 or by e-mail at AirComplianceReporting@dnr.mo.gov, 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-0764
Site ID Number:
Site Address: 1078 S. Washington Street, Hayti, MO 63581
Site County: Pemiscot S3 T18N R12

1. Annual Emission Limit
   A. Delta Asphalt shall emit less than 15.0 tons of PM$_{10}$ in any 12-month period from the entire installation which consists of the equipment listed in Table 1. The SSM emissions as reported to the Air Pollution Control Program’s Compliance/Enforcement Section in accordance with the requirements of 10 CSR 10-6.050 Start-Up, Shutdown, and Malfunction Conditions shall be included in the limit.

   B. Delta Asphalt shall demonstrate compliance with Special Condition 1.A using Attachment A or another equivalent form that has been approved by the Air Pollution Control Program, including an electronic form.

2. Undocumented Watering Requirement
   Delta Asphalt shall apply a water spray on all haul roads and vehicular activity areas whenever conditions exist that would allow visible emissions from these sources to leave the property.

3. Control Device Requirement-Baghouse
   A. Delta Asphalt shall control particulate emissions from the drum dryer (EU-04) using a baghouse as specified in the permit application.

   B. The baghouse 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 baghouse 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).
SITE SPECIFIC SPECIAL CONDITIONS:
The permittee is authorized to construct and operate subject to the following special conditions:

D. Delta Asphalt shall monitor and record the operating pressure drop across the baghouse at least once every 24 hours when the baghouse is in operation. The operating pressure drop shall be maintained within the design conditions specified by the manufacturer's performance warranty.

E. Delta Asphalt shall maintain a copy of the baghouse manufacturer's performance warranty on site.

F. Delta Asphalt 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.

4. Fuel Requirement-Drum Dryer
   A. Delta Asphalt shall burn distillate fuel in their drum dryer (EU-4) with a sulfur content less than or equal to 2000 parts per million by weight.

   B. Delta Asphalt Inc shall demonstrate compliance with Special Condition 4.A by obtaining records of the fuel's sulfur content from the vendor for each shipment of fuel received or by testing each shipment of fuel for the sulfur content in accordance with the method described in 10 CSR 10-6.040 Reference Methods.

   C. Delta Asphalt shall keep the records required by Special Condition 4.B with the unit and make them available for Department of Natural Resources' employees upon request.

5. Nonroad Engine Requirements
   A. Delta Asphalt cannot operate at this site longer than 12 consecutive months in order to avoid recordkeeping showing the movement of the diesel engine. To meet the definition of a nonroad engine as stated in 40 CFR 89.2, the diesel engine cannot remain in one physical location for longer than 12 consecutive months.

6. Record Keeping Requirement
   Delta Asphalt 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.
SITE SPECIFIC SPECIAL CONDITIONS:
The permittee is authorized to construct and operate subject to the following special conditions:

7. Reporting Requirement
Delta Asphalt shall report to the Air Pollution Control Program, Compliance / Enforcement Section by mail to P.O. Box 176, Jefferson City, MO 65102 or by email at AirComplianceReporting@dnr.mo.gov, 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 (6) REVIEW
Project Number: 2018-01-037
Installation ID Number: PORT-0764
Permit Number: 072018-004

Delta Asphalt:
1078 S. Washington Street
Hayti, MO 63851

Parent Company:
Delta Companies Inc.
PO Box 637
Cape Girardeau, MO 63702

Pemiscot County, S3 T18N R12

Complete: January 22, 2018

PROJECT DESCRIPTION

Delta Asphalt Inc. is installing a new portable drum mix asphalt plant (PORT-0764) at 1078 S. Washington Street, Hayti, MO, Pemiscot County.

The plant is capable of producing up to 300 tons of asphalt per hour. The plant's drum dryer burner is rated with a heat input of 96 MMBtu/hr. The dryer uses distillate fuel oil #4. Particulate emissions from the drum dryer are controlled by a fabric filter. The asphalt cement heater is electric. Raw materials for making asphalt will consist of limestone rock, sand, recovered asphalt product (RAP) and AC. There will be approximately 0.5 acre of aggregate storage pile, 0.5 acre of sand storage pile, 0.05 acres of RAP storage pile and 1226 feet (raw material haul road) and 1420 feet (product haul road) of unpaved haul roads. A summary of the equipment can be found below in Table 1.

Two gen sets (1000kw Cummins 1000DFQAS-645 S, Serial # J080215245 and 250kw Cummins C200D2RE, Serial # D160950062) will supply power for the portable plant. These gen sets 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.

No stationary plants are located at this site. This installation is located in Pemiscot County which is in attainment/unclassified of the NAAQS for all pollutants.

This installation is on the List of Named Installations found in 10 CSR 10-6.020(3)(B),
Table 2. Hot mix asphalt plants fall under Category 27. Fugitive emissions are counted toward major source applicability. However, Category 27 does not apply to the 100 tons per year major source level thresholds for construction permits. Therefore, the major source threshold for this asphalt plant is 250 tons per year.

No permits have been issued to this Delta Asphalt PORT-0764 plant from the Air Pollution Control Program.

Table 1: Equipment Summary

<table>
<thead>
<tr>
<th>Emission point</th>
<th>Description</th>
<th>MDHR</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-01</td>
<td>Aggregate Handling Bins</td>
<td>276 (tons/hr)</td>
</tr>
<tr>
<td>EP-02</td>
<td>Aggregate handling conveyor</td>
<td>828 (tons/hr)</td>
</tr>
<tr>
<td>EP-03</td>
<td>Vibrating Screen</td>
<td>276 (tons/hr)</td>
</tr>
<tr>
<td>EP-04</td>
<td>Drum Dryer (96 mmBTU/hr)</td>
<td>300 (tons/hr)</td>
</tr>
<tr>
<td>EP-05</td>
<td>Plant Loadout</td>
<td>300 (tons/hr)</td>
</tr>
<tr>
<td>EP-06</td>
<td>Silo Loading</td>
<td>300 (tons/hr)</td>
</tr>
<tr>
<td>EP-07</td>
<td>Asphalt Heater (electric)</td>
<td>300 (tons/hr)</td>
</tr>
<tr>
<td>EP-08</td>
<td>Aggregate Storage Pile</td>
<td>0.5 acres</td>
</tr>
<tr>
<td>EP-09</td>
<td>Sand Storage Pile</td>
<td>0.5 acres</td>
</tr>
<tr>
<td>EP-10</td>
<td>RAP Storage Pile</td>
<td>0.05 acres</td>
</tr>
<tr>
<td>EP-11</td>
<td>Haul Road Raw Material (1228 ft, unpaved)</td>
<td>26.05 VMT/hr</td>
</tr>
<tr>
<td>EP-12</td>
<td>Haul Road Product (1420 ft, unpaved)</td>
<td>17.62 VMT/hr</td>
</tr>
<tr>
<td>EP-13</td>
<td>RAP Crusher</td>
<td>8.04 (tons/hr)</td>
</tr>
</tbody>
</table>

TABLES

The table below summarizes the emissions of this project. The potential emissions of the process equipment, which excludes emissions from haul roads and wind erosion, are not site specific and should not vary from site to site. There are no existing actual emission. The potential emissions of the application represent the emissions of all equipment and activities assuming continuous operation (8760 hours per year). The conditioned potential emissions include emissions from sources with a mandatory limit for portable plants based on requirements in 10 CSR 10-6.060 Section (4).
Table 2: Emissions Summary (tons per year)

<table>
<thead>
<tr>
<th>Air Pollutant</th>
<th>De Minimis Level/SMAL</th>
<th>Existing Actual Emissions</th>
<th>Potential Emissions of Process Equipment*</th>
<th>Potential Emissions of the Application*</th>
<th>Conditioned Potential Emissions of the Project</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM</td>
<td>25.0</td>
<td>N/A</td>
<td>90.65</td>
<td>1,194.02</td>
<td>46.96</td>
</tr>
<tr>
<td>PM&lt;sub&gt;10&lt;/sub&gt;</td>
<td>15.0</td>
<td>N/A</td>
<td>48.62</td>
<td>381.39</td>
<td>&lt;15.0</td>
</tr>
<tr>
<td>PM&lt;sub&gt;2.5&lt;/sub&gt;</td>
<td>10.0</td>
<td>N/A</td>
<td>33.98</td>
<td>73.58</td>
<td>2.89</td>
</tr>
<tr>
<td>SO&lt;sub&gt;x&lt;/sub&gt;</td>
<td>40.0</td>
<td>N/A</td>
<td>51.84</td>
<td>51.84</td>
<td>2.04</td>
</tr>
<tr>
<td>NO&lt;sub&gt;x&lt;/sub&gt;</td>
<td>40.0</td>
<td>N/A</td>
<td>57.60</td>
<td>57.60</td>
<td>2.27</td>
</tr>
<tr>
<td>VOC</td>
<td>40.0</td>
<td>N/A</td>
<td>79.21</td>
<td>79.21</td>
<td>3.12</td>
</tr>
<tr>
<td>CO</td>
<td>100.0</td>
<td>N/A</td>
<td>25.58</td>
<td>25.58</td>
<td>1.01</td>
</tr>
<tr>
<td>H&lt;sub&gt;2&lt;/sub&gt;S</td>
<td>10.0</td>
<td>N/A</td>
<td>6.63</td>
<td>6.63</td>
<td>0.261</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>10.0/2.0&lt;sup&gt;c&lt;/sup&gt;</td>
<td>N/A</td>
<td>4.30</td>
<td>4.30</td>
<td>0.17</td>
</tr>
<tr>
<td>2-methylnaphthalene</td>
<td>10.0/0.01&lt;sup&gt;d&lt;/sup&gt;</td>
<td>N/A</td>
<td>0.24</td>
<td>0.24</td>
<td>0.0095</td>
</tr>
<tr>
<td>Lead Compounds</td>
<td>10.0/0.01&lt;sup&gt;e&lt;/sup&gt;</td>
<td>N/A</td>
<td>0.02</td>
<td>0.02</td>
<td>7.75E-04</td>
</tr>
<tr>
<td>Total HAPs</td>
<td>25.0</td>
<td>N/A</td>
<td>13.71</td>
<td>13.74</td>
<td>0.54</td>
</tr>
</tbody>
</table>

N/A = Not Applicable

* Excludes haul road and storage pile emissions

<sup>a</sup> Includes site specific haul road and storage pile emissions

<sup>c</sup>SMA (Screen Modeling Action Level)

<sup>d</sup>2-methylnaphthalene is a member of the Polycyclic Organic Matter (POM) HAP group.

The plant’s drum dryer (EP-04) was modeled using the AERSCREEN screen modeling software at a distance of 210 feet from the property line. The stack characteristic entered into the modeled are listed in Table 3. 2-methylnaphthalene was the only pollutant modeled as conditioned emissions of all other pollutants are below the de minimis or SMALs levels.

Table 3: AERSCREEN Input Parameters

<table>
<thead>
<tr>
<th>Equipment Description</th>
<th>Stack Height (m)</th>
<th>Stack Inside Diameter (m)</th>
<th>Stack Gas Exit Velocity (m/s)</th>
<th>Stack Gas Exit Temperature (K)</th>
<th>Dispersion Coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drum Dryer</td>
<td>7.42</td>
<td>1.184</td>
<td>28.6</td>
<td>422</td>
<td>Rural</td>
</tr>
</tbody>
</table>

Table 4 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 impact and annual impact are based on compliance with the RAL for 2-methylnaphthalene.
Table 4: Ambient Air Quality Impact Analysis

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>RAL (µg/m³)</th>
<th>Averaging Time</th>
<th>Maximum Modeled Impact (µg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>C₁₁H₁₀</td>
<td>2.3</td>
<td>24-hour</td>
<td>0.31</td>
</tr>
<tr>
<td>C₁₂H₁₀</td>
<td>2.3</td>
<td>Annual</td>
<td>0.0053</td>
</tr>
</tbody>
</table>

N/A = Not Applicable

a Risk Assessment Level (RAL)
b Modeled impact at maximum capacity
c 2-methylnaphthalene is a member of the polycyclic organic matter (POM) HAP group.

Note: C₁₁H₁₀ is emitted from other emission units at the site that were not included in the model. Their contribution is not expected to exceed the RAL.

EMISSIONS CALCULATIONS

Emissions for the project were calculated as described below and 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 drum mix asphalt plant:
- Calculated using emission factors from AP-42 Section 11.1 "Hot Mix Asphalt Plants," April 2004.
- SOₓ emissions were calculated using the SO₂ and SO₃ emission factors from AP-42 Section 1.3 "Fuel Oil Combustion," September 1998 and assuming half of the sulfur up to 0.1 pound per ton of product is absorbed into the product.
- The asphalt plant is controlled by a baghouse, so the fabric filter controlled emission factor was used to calculate PM, PM₁₀, and PM₂.₅ emissions.
- Emissions from plant load-out were calculated using predictive equations found in AP-42 Table 11.1-14. Default values were used for asphalt volatility and mix temperature.

Emissions from haul roads and vehicular activity areas:
- Calculated using the predictive equation from AP-42 Section 13.2.2 "Unpaved Roads," November 2006.
- A 50% control efficiency for PM and PM₁₀ and a 41% control efficiency for PM₂.₅ were applied to the emission calculations for the use of undocumented watering.

Emissions from storage piles:
- Load-in and load-out of storage piles were calculated using the predictive equation from AP-42 Section 13.2.4. "Aggregate Handling and Storage Piles", November 2006.
- The moisture content of the aggregate is 0.7% by weight by default.
- 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."
OPERATING SCENARIOS

PORT-0764 cannot operate with any other plants that have ambient impact limits based on the Air Pollution Control Program's nomographs. When locating to a site that has or will have other plants, please refer to that plant's permit special conditions to see if they contain ambient impact limits.

PERMIT RULE APPLICABILITY

This review was conducted in accordance with Section (6) of Missouri State Rule 10 CSR 10-6.060, Construction Permits Required. The conditioned potential emissions include emissions from sources that will limit their production to ensure compliance with the annual \( \text{PM}_{10} \) emission limit of 15.0 tons per rolling 12 months in order to avoid refined modeling according to 10 CSR 10-6.060 (6)(B)3. Potential emissions of PM are above de minimis but below major source levels. There are no modeling requirements for PM.

APPLICABLE REQUIREMENTS

Delta Asphalt 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.
- No Operating Permit is required for this portable plant.
- 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

- 40 CFR 60 Subpart I, "Standards of Performance for Hot Mix Asphalt Facilities" applies to the equipment.

- 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.

- Control of Sulfur Dioxide Emissions, 10 CSR 10-6.261

STAFF RECOMMENDATION

On the basis of this review conducted in accordance with Section (6), Missouri State Rule 10 CSR 10-6.060, Construction Permits Required, it is recommended that this permit be granted with special conditions.

PERMIT DOCUMENTS

The following documents are incorporated by reference into this permit:

- The Application for Authority to Construct form, dated January 15, 2018, received January 22, 2018, designating Delta Companies Inc. as the owner and operator of the installation.
Attachment A: PM$_{10}$ 12-Month Rolling Total Emissions Tracking Sheet
Delta Asphalt PORT-0764
Project Number: 2018-01-037
Permit Number: 072018-004

Site Name: Delta Asphalt PORT-0764
Site Address: 1078 S. Washington Street, Hayti, MO 63851
Site County: Pemiscot County
This sheet covers the period from (Month, Day Year) to (Month, Day Year) (Copy as needed)

<table>
<thead>
<tr>
<th>Month</th>
<th>Production (tons)</th>
<th>PM$_{10}$ Composite Emission Factor (lb/ton)</th>
<th>Monthly PM$_{10}$ Emissions$^1$ (lbs)</th>
<th>Startup, Shutdown and Malfunction PM$_{10}$ Emissions (lbs)</th>
<th>Monthly PM$_{10}$ Emissions$^1$ (tons)</th>
<th>12-Month Rolling Total Emissions (tons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Example</td>
<td>20,000</td>
<td>0.2903</td>
<td>5,806</td>
<td>0.0</td>
<td>2.9</td>
<td>2.9 + 11 previous months at this site</td>
</tr>
</tbody>
</table>

$^1$Multiply the monthly production by the PM$_{10}$ composite emission factor.

$^2$As reported to the Air Pollution Control Program's Compliance/Enforcement Section according to the provisions of 10 CSR 10-6.050 for the month.

$^3$Add the monthly PM$_{10}$ emissions plus the SSM emissions from the same time period and divide by 2000 and

$^4$Add the monthly emissions (tons) to the sum of the monthly emissions from the previous eleven months. A total of less than 15.0 tons of PM$_{10}$ per consecutive 12 months is necessary for compliance.
APPENDIX A

Abbreviations and Acronyms

% ............... percent
°F ............. degrees Fahrenheit
afcm .......... 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
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
PM₂·₅ .......... particulate matter less than 2.5 microns in aerodynamic diameter
PM₁₀ .......... particulate matter less than 10 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
scfm .......... standard cubic feet per minute
SDS .......... Safety Data Sheet
SIC .......... Standard Industrial Classification
SIP .......... State Implementation Plan
SMAL .......... Screening Model Action Levels
SOₓ .......... sulfur oxides
SO₂ .......... sulfur dioxide
SSM .......... startups, shutdowns, & malfunctions
tph .......... tons per hour
tpy .......... tons per year
VMT .......... vehicle miles traveled
VOC .......... Volatile Organic Compound
<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Emission Amount (lbs/year)</th>
<th>Potential Emission Amount (lbs/year)</th>
<th>Limit Hours per Year</th>
<th>Limit Hours per Year w/ 24 hr day</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM</td>
<td>90.65</td>
<td>1,194.02</td>
<td>48,560</td>
<td>0.5007</td>
</tr>
<tr>
<td>PM$_{10}$</td>
<td>46.62</td>
<td>381.39</td>
<td>18,000</td>
<td>0.2903</td>
</tr>
<tr>
<td>PM$_{2.5}$</td>
<td>33.88</td>
<td>73.68</td>
<td>28,800</td>
<td>0.0560</td>
</tr>
<tr>
<td>SO$_2$</td>
<td>51.84</td>
<td>51.84</td>
<td>2,040</td>
<td>0.0395</td>
</tr>
<tr>
<td>NO$_2$</td>
<td>57.60</td>
<td>57.60</td>
<td>2,040</td>
<td>0.0438</td>
</tr>
<tr>
<td>VOC</td>
<td>79.21</td>
<td>79.21</td>
<td>3,120</td>
<td>0.0603</td>
</tr>
<tr>
<td>CO</td>
<td>25.58</td>
<td>25.58</td>
<td>10,400</td>
<td>0.0195</td>
</tr>
<tr>
<td>H$_2$S</td>
<td>6.63</td>
<td>6.63</td>
<td>2,277</td>
<td>0.0050</td>
</tr>
<tr>
<td>CH$_4$</td>
<td>4.30</td>
<td>4.30</td>
<td>3,120</td>
<td>0.0033</td>
</tr>
<tr>
<td>C$<em>{11}$H$</em>{16}$</td>
<td>0.24</td>
<td>0.24</td>
<td>3,120</td>
<td>0.0002</td>
</tr>
<tr>
<td>Pb</td>
<td>0.02</td>
<td>0.02</td>
<td>3,120</td>
<td>0.0000</td>
</tr>
<tr>
<td>HAPs</td>
<td>13.71</td>
<td>13.71</td>
<td>3,120</td>
<td>0.0104</td>
</tr>
<tr>
<td>CO$_2$</td>
<td>69,561.98</td>
<td>69,561.98</td>
<td>2,735.83</td>
<td>52.9391</td>
</tr>
<tr>
<td>CH$_4$</td>
<td>5.44</td>
<td>5.44</td>
<td>2,735.83</td>
<td>0.0411</td>
</tr>
<tr>
<td>N$_2$O</td>
<td>0.56</td>
<td>0.56</td>
<td>2,735.83</td>
<td>0.0004</td>
</tr>
<tr>
<td>GHG$_{mass}$</td>
<td>69,567.98</td>
<td>69,567.98</td>
<td>2,735.83</td>
<td>52.8437</td>
</tr>
<tr>
<td>CO$_{2eq}$</td>
<td>69,863.79</td>
<td>69,863.79</td>
<td>2,747.70</td>
<td>53.1888</td>
</tr>
</tbody>
</table>

- Maximum tons per day: 300
- Distance to property boundary: 210 ft
- Tons of product per day: 7200.0
- Tons of product per year: 103,357.5
Dear Mr. Janet:

Enclosed with this letter is your permit to construct. Please study it carefully and refer to Appendix A for a list of common abbreviations and acronyms used in the permit. 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, your new source review permit application is necessary for continued compliance. In addition, please note that Delta Asphalt cannot operate with any other plants that have ambient impact limits based on the Air Pollution Control Program’s nomographs. Please refer to the permits of any plant that you are operating with to see if their respective permits contain an ambient impact limit. 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.

This permit may include requirements with which you may not be familiar. If you would like the department to meet with you to discuss how to understand and satisfy the requirements contained in this permit, an appointment referred to as a Compliance Assistance Visit (CAV) can be set up with you. To request a CAV, please contact your local regional office or fill out an online request. The regional office contact information can be found at the following website: http://dnr.mo.gov/regions/. The online CAV request can be found at http://dnr.mo.gov/cav/compliance.htm.

If you were adversely affected by this permit decision, you may be entitled to pursue an appeal before the administrative hearing commission pursuant to Sections 621.250 and 643.075.6 RSMo. To appeal, you must file a petition with the administrative hearing commission within thirty 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 administrative hearing commission, whose contact information is: Administrative Hearing Commission, United States Post Office Building, 131 West High Street, Third Floor, P.O. Box 1557, Jefferson City, Missouri 65102, phone: 573-751-2422, fax: 573-751-5018, website: www.oa.mo.gov/ahc.
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

Enclosures

c: Southeast Regional Office
PAMS File: 2018-01-037

Permit Number: 072018-004
<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>-----------</td>
<td>------------------</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

**Notes:**
- High flow: Suitable for high-flow applications.
- Low flow: Suitable for low-flow applications.
- Standard: Suitable for a range of flow applications.
- High capacity: Suitable for high-capacity applications.

**Extractors:**
- Extractor 1: High flow
- Extractor 2: Low flow
- Extractor 3: Standard
- Extractor 4: High capacity

**Post or Extractor:**
- Post 1: High flow
- Post 2: Low flow
- Post 3: Standard
- Post 4: High capacity
<table>
<thead>
<tr>
<th>Project</th>
<th>Task</th>
<th>Start Date</th>
<th>End Date</th>
<th>Hours</th>
<th>Percentage Complete</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project A</td>
<td>Task 1</td>
<td>01/01/2023</td>
<td>01/31/2023</td>
<td>80</td>
<td>100%</td>
<td>Complete</td>
</tr>
<tr>
<td>Project B</td>
<td>Task 2</td>
<td>02/01/2023</td>
<td>02/28/2023</td>
<td>60</td>
<td>90%</td>
<td>In Progress</td>
</tr>
<tr>
<td>Project C</td>
<td>Task 3</td>
<td>03/01/2023</td>
<td>03/31/2023</td>
<td>75</td>
<td>80%</td>
<td>Partial Complete</td>
</tr>
</tbody>
</table>

**Notes:**
- Task 1 was completed ahead of schedule.
- Task 2 encountered unexpected delays due to weather conditions.
- Task 3 required additional resources for completion.