

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: 072018-004

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

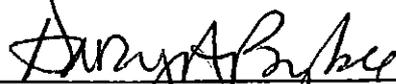
Location Information: Pemiscot County, S3 T18N R12

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 Kolb
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 startup. 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 PM₁₀ 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

Complete: January 22, 2018

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

Pemiscot County, S3 T18N R12

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 1000DQFAS-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

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

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. 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)

Air Pollutant	De Minimis Level/SMAL	Existing Actual Emissions	Potential Emissions of Process Equipment ^a	Potential Emissions of the Application ^b	Conditioned Potential Emissions of the Project
PM	25.0	N/A	90.65	1,194.02	46.96
PM ₁₀	15.0	N/A	48.62	381.39	<15.0
PM _{2.5}	10.0	N/A	33.68	73.58	2.89
SO _x	40.0	N/A	51.84	51.84	2.04
NO _x	40.0	N/A	57.60	57.60	2.27
VOC	40.0	N/A	79.21	79.21	3.12
CO	100.0	N/A	25.58	25.58	1.01
H ₂ S	10.0	N/A	6.63	6.63	0.261
Formaldehyde	10.0/2.0 ^c	N/A	4.30	4.30	0.17
2-methylnaphthalene ^d	10.0/0.01 ^c	N/A	0.24	0.24	0.0095
Lead Compounds	10.0/0.01 ^c	N/A	0.02	0.02	7.75E-04
Total HAPs	25.0	N/A	13.71	13.74	0.54

N/A = Not Applicable

^a Excludes haul road and storage pile emissions

^b Includes site specific haul road and storage pile emissions

^c SMAL (Screen Modeling Action Level)

^d 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

Equipment Description	Stack Height (m)	Stack Inside Diameter (m)	Stack Gas Exit Velocity (m/s)	Stack Gas Exit Temperature (K)	Dispersion Coefficient
Drum Dryer	7.42	1.184	28.6	422	Rural

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

Pollutant	RAL ($\mu\text{g}/\text{m}^3$) ^a	Averaging Time	Maximum Modeled Impact ($\mu\text{g}/\text{m}^3$) ^b
C ₁₁ H ₁₀ ^c	23	24-hour	0.31
C ₁₁ H ₁₀ ^c	2.3	Annual	0.0053

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.
- SO_x 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 PM_{2.5} 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 PM_{2.5} 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 PM₁₀ 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.

APPENDIX A

Abbreviations and Acronyms

%percent	MMBtuMillion British thermal units
°Fdegrees Fahrenheit	MMCFmillion cubic feet
acfmactual cubic feet per minute	MSDSMaterial Safety Data Sheet
BACTBest Available Control Technology	NAAQSNational Ambient Air Quality Standards
BMPsBest Management Practices	NESHAPs ..National Emissions Standards for Hazardous Air Pollutants
BtuBritish thermal unit	NO_xnitrogen oxides
CAMCompliance Assurance Monitoring	NSPSNew Source Performance Standards
CASChemical Abstracts Service	NSRNew Source Review
CEMSContinuous Emission Monitor System	PMparticulate matter
CFRCode of Federal Regulations	PM_{2.5}particulate matter less than 2.5 microns in aerodynamic diameter
COcarbon monoxide	PM₁₀particulate matter less than 10 microns in aerodynamic diameter
CO₂carbon dioxide	ppmparts per million
CO_{2e}carbon dioxide equivalent	PSD . . .Prevention of Significant Deterioration
COMS Continuous Opacity Monitoring System	PTEpotential to emit
CSRCode of State Regulations	RACTReasonable Available Control Technology
dscfdry standard cubic feet	RALRisk Assessment Level
EIQEmission Inventory Questionnaire	SCCSource Classification Code
EPEmission Point	scfmstandard cubic feet per minute
EPAEnvironmental Protection Agency	SDSSafety Data Sheet
EUEmission Unit	SICStandard Industrial Classification
fpsfeet per second	SIPState Implementation Plan
ftfeet	SMALScreening Model Action Levels
GACTGenerally Available Control Technology	SO_xsulfur oxides
GHGGreenhouse Gas	SO₂sulfur dioxide
gpmgallons per minute	SSMstartup, shutdown, & malfunction
grgrains	tphtons per hour
GWPGlobal Warming Potential	tpytons per year
HAPHazardous Air Pollutant	VMTvehicle miles traveled
hrhour	VOCVolatile Organic Compound
hphorsepower	
lbpound	
lbs/hrpounds per hour	
MACTMaximum Achievable Control Technology	
µg/m³micrograms per cubic meter	
m/smeters per second	
Mgal1,000 gallons	
MWmegawatt	
MHDRmaximum hourly design rate	

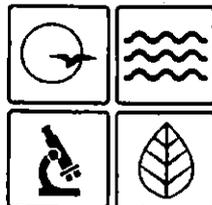
NOTICE: This spreadsheet is for your use only and should be used with caution. MoDNR does not guarantee the accuracy of the information it contains. This spreadsheet is subject to continual revision and updating. It is your responsibility to be aware of the most current, accurate and complete information available. MoDNR is not responsible for errors or omissions in this spreadsheet. Submittal of the information contained in this spreadsheet (workbook) does not relieve the responsible official of the certification statement signed on the first page of the application.

		Pollutant	Justification for Limit	Limit Hours per Year
Hours per day	24.0	PM10	NAAQS	
Days per year	14.4	N/A	N/A	Limit Hours per Year w/ 24 hr day
Hours per year	344.5	PM10	De Minimis	

Pollutant	Potential Emissions of Process Equipment (tons/yr)	Potential Emissions Including fugitives (tons/yr)	Allowable Emissions for 346 hours per year (tons/yr)	De Minimis Thresholds	Plant-wide Composite Emission Factor (lbs/ton)
PM	90.65	1,194.02	46.96		0.9087
PM ₁₀	48.62	381.39	15.00		0.2903
PM _{2.5}	33.68	73.58	2.89		0.0560
SO ₂	51.84	51.84	2.04		0.0395
NO ₂	57.60	57.60	2.27		0.0438
VOC	79.21	79.21	3.12		0.0603
CO	25.58	25.58	1.01		0.0195
H ₂ S	6.63	6.63	0.261		0.0050
CH ₂ O	4.30	4.30	0.17		0.0033
C ₁₁ H ₁₀	0.24	0.24	0.0095		0.0002
Pb	0.02	0.02	7.75E-04		0.0000
HAPs	13.71	13.71	0.54		0.0104
CO ₂	69,561.98	69,561.98	2,735.83		52.9391
CH ₄	5.44	5.44	0.21		0.0041
N ₂ O	0.56	0.56	0.02		0.0004
GHG _{mass}	69,567.98	69,567.98	2,736.06		52.9437
CO ₂ eq	69,863.79	69,863.79	2,747.70		53.1688

Maximum hourly design rate (tons/hr)	300
Distance to property boundary (ft)	210

Tons of product per day	7200.0
Tons of product per year	103,357.5



Missouri Department of dnr.mo.gov

NATURAL RESOURCES

Michael L. Parson, Governor

Carol S. Comer, Director

JUL 10 2018

Mr. Jordan Janet
Regional EHS Coordinator
Delta Asphalt
PO Box 637
Cape Girardeau, MO 63702

RE: New Source Review Permit Number:
Project Number: 2018-01-037; Installation Number: PORT-0764

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.oh.mo.gov/ahc.



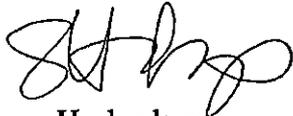
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Mr. Jordan Janet
Page Two

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:kkj

Enclosures

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

Permit Number: 07 2018 - 004

Emission Point Number	Emission Line Number	Description	SCC	Maximum Hourly Design Rate	Units	Control Device Number	Control Type	Control Efficiency (%)	Control Efficiency (%)	Effluent	Emission Factor	Units (pounds per unit shown)	Emission Rate (pounds per hour)	Potential Emissions (pounds per year)	Allocable Emissions (pounds per year)	Nonograph Type (shown by 24-hr conc. then by annual conc.)	Hours Adjusted Annual 24-hr Factor or (pphm)	Emission Adjusted Annual Impact 24-hr Average (pphm)	Annual Impact Average (pphm)
1	1	Aggregate handling line		278.00	ton/hour			N/A	N/A	PM ₁₀	0.0001	ton	0.02	3.04	0.14	None			
								N/A	N/A	PM _{2.5}	0.0011	ton	0.30	1.23	0.05				
								N/A	N/A	PM ₁₀	0.0005	ton	0.08	0.29	0.01				
2	2	Aggregate handling conveyor		678.00	ton/hour			N/A	N/A	PM ₁₀	0.0000	ton	0.00	0.00	0.00	None			
								N/A	N/A	PM _{2.5}	0.0011	ton	0.81	3.00	0.15				
								N/A	N/A	PM ₁₀	0.0005	ton	0.59	2.15	0.10				
3	3	Washing screen		378.00	ton/hour			N/A	N/A	PM ₁₀	0.0000	ton	0.00	0.00	0.00	None			
								N/A	N/A	PM _{2.5}	0.0007	ton	2.45	8.82	0.41				
								N/A	N/A	PM ₁₀	0.0006	ton	0.19	0.71	0.03				
16	16	HAPROAS Choker			ton/hour		Uncontrolled (Washing)			PM ₁₀		ton				None			
										PM _{2.5}		ton							
										PM ₁₀		ton							
4	4	Dryer inlet hot gas separator Waste oil-fired dryer Quartzite oil fuel (PM ₁₀ = 1.00 results) Quartzite Fuel Oil No. 4 Liquid asphalt	3-00-002 (01, 05-05)	300.00 98.00 8.00 24.00	ton/hour ton/hour mgal/hour gpm		Fabric Filter			PM ₁₀	0.0000	ton	0.00	0.00	0.00	AEDSCHEDULE	0.10	0.10	0.00
										PM _{2.5}	0.0000	ton	0.00	0.00	0.00		0.10	0.10	0.25
										CO	18.0000	mgal	11.84	51.8	2.0		0.10	72.00	0.40
										NO _x	20.0000	mgal	13.19	57.8	2.5		0.10	81.00	0.50
										CO	0.0000	mgal	4.73	20.7	0.8		0.10	28.10	0.15
										VOC	0.0000	ton	0.00	0.00	0.00		0.10	0.00	0.00
										CH ₄	0.0000	ton	0.00	0.00	0.00		0.10	0.00	0.00
										CO ₂	168.0000	ton	12.84	57.8	2.5		0.10	9782.22	941.40
										CH ₄	0.0000	ton	1.10	4.0	0.2		0.10	2.10	0.00
										H ₂ O	0.0000	ton	1.00	3.6	0.2		0.10	0.10	0.00
										H ₂ O	0.0000	ton	0.19	0.8	0.0		0.10	0.10	0.00
5	5	Plant lockout Liquid asphalt	3-00-002-14	300.00 24.00	ton/hour ton					PM ₁₀	0.0005	ton	0.18	0.7	0.0	None			
										PM _{2.5}	0.0000	ton	0.18	0.7	0.0				
										CO	0.0018	ton	0.60	2.2	0.1				
										VOC	0.0008	ton	1.17	4.3	0.2				
										CH ₄	0.0000	ton	0.00	0.0	0.0				
										HAPs	0.0001	ton	0.03	0.1	0.0				
										H ₂ S	0.0000	ton	0.00	0.0	0.0				
										CH ₄	0.0000	ton	0.00	0.0	0.0				
6	6	Lock breaking Liquid asphalt	3-00-002-13	300.00 24.00	ton/hour ton					PM ₁₀	0.0000	ton	0.18	0.8	0.0	None			
										PM _{2.5}	0.0000	ton	0.18	0.8	0.0				
										CO	0.0018	ton	0.60	2.2	0.1				
										VOC	0.0008	ton	1.17	4.3	0.2				
										CH ₄	0.0000	ton	0.00	0.0	0.0				
										HAPs	0.0001	ton	0.03	0.1	0.0				
										H ₂ S	0.0000	ton	0.00	0.0	0.0				
										CH ₄	0.0000	ton	0.00	0.0	0.0				

Emission Point Number	Emission Line Number	Description	GCC	Maximum Hourly Discharge Rate	Units	Control Device Number	Control Type	Capture Efficiency (%)	Control Efficiency (%)	Pollutant	Emission Factor	Units (pounds per ton of steam)	Estimate Rate (pounds per hour)	Potential Emissions (tons per year)	Adjusted Emissions (tons per year)	Homogeneity Type (followed by 24-hr work, then by annual cont)	Hours Adjusted Ambient 24-hr For one hr (cont)	Unkwnr Adjusted Ambient (pounds 24-hr Average (pound))	Ambient Impact Annual Average (pound)
7	7	Asphalt heater		30.00	ton/hour ton/hour ton/hour			100%	N/A	PM ₁₀							None		
								100%	N/A	PM _{2.5}									
								100%	N/A	SO ₂									
								100%	N/A	NO _x									
								100%	N/A	CO									
								100%	N/A	VOC									
								100%	N/A	CH ₄									
								100%	N/A	Pb									
								100%	N/A	HAPs									
								100%	N/A	CO ₂									
								100%	N/A	CH ₄									
								100%	N/A	H ₂ O									
								0.0000	ton steam eq	0.34	1.123	0.000							
								0.0100	ton steam eq	0.28	1.103	0.000							
0.0190	ton steam eq	0.28	1.103	0.000															
0.0000	ton steam eq	0.35	16.013	0.000															
0.0176	ton steam eq	0.35	1.500	0.001															
0.0000	ton steam eq	0.00	0.001	0.001															
0.0000	ton steam eq	0.00	0.000	0.000															
0.0000	ton steam eq	0.00	0.110	0.000															
0.0000	ton steam eq	0.00	0.001	0.001															
8	8	Engine Model Year		lb pounds per hour ton/hour				N/A	N/A	PM ₁₀							None		
								N/A	N/A	PM _{2.5}									
								N/A	N/A	SO ₂									
								N/A	N/A	NO _x									
								N/A	N/A	CO									
								N/A	N/A	VOC									
								N/A	N/A	CH ₄									
								N/A	N/A	HAPs									
								N/A	N/A	CO ₂									
								N/A	N/A	H ₂ O									
								N/A	N/A	CH ₄									
								N/A	N/A	PM ₁₀									
								N/A	N/A	PM _{2.5}									
								N/A	N/A	SO ₂									
N/A	N/A	NO _x																	
N/A	N/A	CO																	
N/A	N/A	VOC																	
N/A	N/A	CH ₄																	
N/A	N/A	HAPs																	
N/A	N/A	CO ₂																	
N/A	N/A	H ₂ O																	
N/A	N/A	CH ₄																	
9	9	Engine Model Year		lb pounds per hour ton/hour				N/A	N/A	PM ₁₀							None		
								N/A	N/A	PM _{2.5}									
								N/A	N/A	SO ₂									
								N/A	N/A	NO _x									
								N/A	N/A	CO									
								N/A	N/A	VOC									
								N/A	N/A	CH ₄									
								N/A	N/A	HAPs									
								N/A	N/A	CO ₂									
								N/A	N/A	H ₂ O									
								N/A	N/A	CH ₄									
								N/A	N/A	PM ₁₀									
								N/A	N/A	PM _{2.5}									
								N/A	N/A	SO ₂									
N/A	N/A	NO _x																	
N/A	N/A	CO																	
N/A	N/A	VOC																	
N/A	N/A	CH ₄																	
N/A	N/A	HAPs																	
N/A	N/A	CO ₂																	
N/A	N/A	H ₂ O																	
N/A	N/A	CH ₄																	
10	10	Engine Model Year		lb pounds per hour ton/hour				N/A	N/A	PM ₁₀							None		
								N/A	N/A	PM _{2.5}									
								N/A	N/A	SO ₂									
								N/A	N/A	NO _x									
								N/A	N/A	CO									
								N/A	N/A	VOC									
								N/A	N/A	CH ₄									
								N/A	N/A	HAPs									
								N/A	N/A	CO ₂									
								N/A	N/A	H ₂ O									
								N/A	N/A	CH ₄									
								N/A	N/A	PM ₁₀									
								N/A	N/A	PM _{2.5}									
								N/A	N/A	SO ₂									
N/A	N/A	NO _x																	
N/A	N/A	CO																	
N/A	N/A	VOC																	
N/A	N/A	CH ₄																	
N/A	N/A	HAPs																	
N/A	N/A	CO ₂																	
N/A	N/A	H ₂ O																	
N/A	N/A	CH ₄																	
Combustion #2		Combustion #2		mmBtu mmBtu mmBtu				100%	N/A	PM ₁₀						None			
								100%	N/A	PM _{2.5}									
								100%	N/A	SO ₂									
								100%	N/A	NO _x									
								100%	N/A	CO									
								100%	N/A	VOC									
								100%	N/A	CH ₄									
								100%	N/A	Pb									
								100%	N/A	HAPs									
								100%	N/A	CO ₂									
								100%	N/A	H ₂ O									
								100%	N/A	CH ₄									
								100%	N/A	PM ₁₀									
								100%	N/A	PM _{2.5}									
100%	N/A	SO ₂																	
100%	N/A	NO _x																	
100%	N/A	CO																	
100%	N/A	VOC																	
100%	N/A	CH ₄																	
100%	N/A	Pb																	
100%	N/A	HAPs																	
100%	N/A	CO ₂																	
100%	N/A	H ₂ O																	
100%	N/A	CH ₄																	
Combustion #3		Combustion #3		mmBtu mmBtu mmBtu				100%	N/A	PM ₁₀						None			
								100%	N/A	PM _{2.5}									
								100%	N/A	SO ₂									
								100%	N/A	NO _x									
								100%	N/A	CO									
								100%	N/A	VOC									
								100%	N/A	CH ₄									
								100%	N/A	Pb									
								100%	N/A	HAPs									
								100%	N/A	CO ₂									
								100%	N/A	H ₂ O									
								100%	N/A	CH ₄									
								100%	N/A	PM ₁₀									
								100%	N/A	PM _{2.5}									
100%	N/A	SO ₂																	
100%	N/A	NO _x																	
100%	N/A	CO																	
100%	N/A	VOC																	
100%	N/A	CH ₄																	
100%	N/A	Pb																	
100%	N/A	HAPs																	
100%	N/A	CO ₂																	
100%	N/A	H ₂ O																	
100%	N/A	CH ₄																	

Emislon Point Number	Emislon Unit Number	Description	SCC	Maximum Hourly Design Rate	Unit	Control Device Number	Control Type	Control Efficiency (%)	Control Efficiency (%)	Parameter	Exhaust Factor	Units (pounds per unit shown)	Exhaust Rate (pounds per hour)	Adjusted Emission Rate (pounds per year)	Allowable Emission Rate (pounds per year)	Monograph Type (0=NY control, 1=NY control, 2=NY control)	Hours Adjusted Annual Forecast (QpM)	Emislon Adjusted Annual Forecast (QpM)	Adjusted Annual Average (QpM)	
Pile #1	Lead in	Lead in	108.00	tons per hour				N/A	N/A	PM ₁₀	0.0254	ton	4.72E+00	20.85	4.81					
										PM _{2.5}	0.0120	ton	2.23E+00	9.77	0.38					
										CO	0.0219	ton	3.38E+01	1.48	0.00					
										SO ₂	0.0254	ton	4.72E+00	20.85	0.91					
										NO _x	0.0120	ton	2.23E+00	9.77	0.38					
										PM ₁₀	0.0019	ton	3.38E+01	1.48	0.06					
										PM _{2.5}	0.0019	ton	3.38E+01	1.48	0.06					
Vehicle Activity	VMT per hour	Unpaved, Unobstructed Warehousing					N/A	NONE	PM ₁₀	12.0000	VMT	1.08E+01	43.31	1.82						
									PM _{2.5}	3.4141	VMT	3.41E+00	13.17	0.32						
									CO	0.2414	VMT	2.41E+01	1.25	0.06						
									SO ₂	0.1789	acre-ft	6.82E+02	0.30	0.02						
									NO _x	0.0882	acre-ft	4.48E+02	0.20	0.01						
									PM ₁₀	0.0134	acre-ft	6.88E+02	0.01	0.00						
									PM _{2.5}	0.0134	acre-ft	6.88E+02	0.01	0.00						
Pile #2	Lead in	Lead in	90.00	tons per hour				N/A	N/A	PM ₁₀	0.0221	ton	1.83E+01	8.83	0.03					
										PM _{2.5}	0.0210	ton	8.87E+00	0.36	0.02					
										CO	0.0210	ton	1.84E+02	0.09	0.00					
										SO ₂	0.0210	ton	1.84E+01	0.62	0.00					
										NO _x	0.0210	ton	8.87E+00	0.36	0.02					
										PM ₁₀	0.0221	ton	1.84E+02	0.09	0.00					
										PM _{2.5}	0.0221	ton	1.84E+02	0.09	0.00					
Vehicle Activity	VMT per hour	Unpaved, Unobstructed Warehousing					N/A	NONE	PM ₁₀	12.0000	VMT	6.12E+00	24.43	0.93						
									PM _{2.5}	3.4141	VMT	1.42E+00	6.37	0.25						
									CO	0.2414	VMT	1.71E+01	0.73	0.03						
									SO ₂	0.1789	acre-ft	1.45E+01	0.62	0.02						
									NO _x	0.1449	acre-ft	1.34E+01	0.52	0.01						
									PM ₁₀	0.0217	acre-ft	1.05E+02	0.05	0.00						
									PM _{2.5}	0.0217	acre-ft	1.05E+02	0.05	0.00						
Pile #3	Lead in	Lead in		tons per hour				N/A	N/A	PM ₁₀		ton								
										PM _{2.5}		ton								
										CO		ton								
										SO ₂		ton								
										NO _x		ton								
										PM ₁₀		ton								
										PM _{2.5}		ton								
Vehicle Activity	VMT per hour						N/A	NONE	PM ₁₀		VMT									
									PM _{2.5}		VMT									
									CO		VMT									
									SO ₂		VMT									
									NO _x		VMT									
									PM ₁₀		acre-ft									
									PM _{2.5}		acre-ft									
Pile #4	Lead in	Lead in		tons per hour				N/A	N/A	PM ₁₀		ton								
										PM _{2.5}		ton								
										CO		ton								
										SO ₂		ton								
										NO _x		ton								
										PM ₁₀		ton								
										PM _{2.5}		ton								
Vehicle Activity	VMT per hour						N/A	NONE	PM ₁₀		VMT									
									PM _{2.5}		VMT									
									CO		VMT									
									SO ₂		VMT									
									NO _x		VMT									
									PM ₁₀		acre-ft									
									PM _{2.5}		acre-ft									
Road #1	VMT per hour	Unpaved, Unobstructed Warehousing					N/A	NONE	PM ₁₀	8.7789	VMT	1.03E+02	409.02	19.00						
									PM _{2.5}	2.8864	VMT	3.03E+01	136.49	6.25						
									CO	4.176	VMT	3.84E+02	15.90	0.82						
									SO ₂	0.3789	VMT	1.21E+02	631.83	20.81						
									NO _x	2.8864	VMT	3.30E+01	136.30	6.17						
									PM ₁₀	0.2939	VMT	4.22E+02	16.48	0.73						
									PM _{2.5}	0.2939	VMT	4.22E+02	16.48	0.73						
Road #2	VMT per hour	Unpaved, Unobstructed Warehousing					N/A	NONE	PM ₁₀		VMT									
									PM _{2.5}		VMT									
									CO		VMT									
									SO ₂		VMT									
									NO _x		VMT									
									PM ₁₀		acre-ft									
									PM _{2.5}		acre-ft									
Road #3	VMT per hour						N/A	NONE	PM ₁₀		VMT									
									PM _{2.5}		VMT									
									CO		VMT									
									SO ₂		VMT									
									NO _x		VMT									
									PM ₁₀		acre-ft									
									PM _{2.5}		acre-ft									
Road #4	VMT per hour						N/A	NONE	PM ₁₀		VMT									
									PM _{2.5}		VMT									
									CO		VMT									
									SO ₂		VMT									
									NO _x		VMT									
									PM ₁₀		acre-ft									
									PM _{2.5}		acre-ft									
Road #5	VMT per hour						N/A	NONE	PM ₁₀		VMT									
									PM _{2.5}		VMT									
									CO		VMT									
									SO ₂		VMT									
									NO _x		VMT									
									PM ₁₀		acre-ft									
									PM _{2.5}		acre-ft									
Road #6	VMT per hour						N/A	NONE	PM ₁₀		VMT									
									PM _{2.5}		VMT									
									CO		VMT									
									SO ₂		VMT									
									NO _x		VMT									
									PM ₁₀		acre-ft									
									PM _{2.5}		acre-ft									