SEP 1 7 2019

Ms. Holly Lillig Estimator J.A. Lillig Excavating, Inc. PORT-0794 1615 East 173rd Street Belton, MO 64012

RE: New Source Review Permit - Project Number: 2019-06-022

Dear Ms. Lillig:

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 and your new source review permit application are necessary for continued compliance. In addition, please note that J.A. Lillig Excavating, Inc. PORT-0794 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 regarding this permit, 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:kka

Enclosures

c: Kansas City Regional Office

PAMS File: 2019-06-022

Permit Number:

092019-006



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: 092	019-006	Project Number: Installation ID:		
Parent Company:	J.A. Lillig Excavating, Inc.			
Parent Company Address: 1615 East 173rd Street, Belton, MO 64012				
Installation Name:	J.A. Lillig Excavating, Inc. PO	RT-0794		
Installation Address:	1179 Mexico City Avenue, Kansas City, MO 64153			
Location Information: Platte County, S15 T52N R34				
Application for Authority to Construct was made for: Construction of a new portable rock crusher. 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.				
•	Hum	Afra		

Director or Designee

Effective Date

SEP 1 7 2019

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 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 sources(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 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 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/

Project No. 2019-06-022

Permit No. 092019=0

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 J.A. Lillig Excavating, Inc. PORT-0794 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.

- 2. Relocation of Portable Rock Crushing Plant
 - J.A. Lillig Excavating, Inc. PORT-0794 shall not be operated at any location longer than 24 consecutive months except if the Site Specific Special Conditions of this portable plant, PORT-0794, 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 rock crushing 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 rock crushing plant is moving to a new site, or if circumstances at the site have changed, 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

J.A. Lillig Excavating, Inc. PORT-0794 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.

Reporting Requirement 4.

> J.A. Lillig Excavating, Inc. PORT-0794 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.

Project No. 2019-06-022 Permit No. 092019-066

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 (3)(E). "Conditions required by permitting authority."

PORT ID Number: PORT-0794 Site Name: Kansas City Airport

Site Address: 1179 Mexico City Avenue, Kansas City, MO 64153

Site County: Platte S15 T52N R34

1. Best Management Practices Requirement

J.A. Lillig Excavating, Inc. PORT-0794 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. Annual Emission Limit
 - A. J.A. Lillig Excavating, Inc. PORT-0794 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 in the Table Section of this permit. 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. J.A. Lillig Excavating, Inc. PORT-0794 shall demonstrate compliance with Special Condition 2.A using Attachment A or another equivalent form that has been approved by the Air Pollution Control Program, including an electronic form.
- 3. Primary Equipment Requirement J.A. Lillig Excavating, Inc. PORT-0794 shall process all rock through the primary crusher (EP-02). Bypassing the primary crusher is prohibited.
- 4. Nonroad Engine Requirement
 J.A. Lillig Excavating, Inc. PORT-0794's engine shall not remain at one location within this site longer than 12 consecutive months in order for the engine to meet the definition of a nonroad engine as stated in 40 CFR 89.2. These engines shall be moved with its associated equipment at least once every 12 consecutive months at this site.
- 5. Record Keeping Requirement
 J.A. Lillig Excavating, Inc. PORT-0794 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

Project No. 2019-06-022

Permit No.

092019=006

SITE SPECIFIC SPECIAL CONDITIONS:

The permittee is authorized to construct and operate subject to the following special conditions:

6. Reporting Requirement

J.A. Lillig Excavating, Inc. PORT-0794 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 (5) REVIEW
Project Number: 2019-06-022
Installation ID Number: PORT-0794

Permit Number:

092019-006

J.A. Lillig Excavating, Inc. PORT-0794:

Complete: June 13, 2019

1179 Mexico City Avenue Kansas City, MO 64153

Parent Company: J.A. Lillig Excavating, Inc. 1615 East 173rd Street Belton, MO 64012

Platte County, S15 T52N R34

PROJECT DESCRIPTION

J.A. Lillig Excavating, Inc. is locating their portable rock crushing plant to the Kansas City Airport with the intent to crush concrete generated from the demolition of a KCI Terminal. The anticipated start-up time is September and is estimated to remain at that site for six months. The crusher is a Terex PowerScreen Crusher 320 SR, Serial Number PID320SRPOMGA3105. Trucking companies will be coming with loads of concrete removed from CWS's KCI Terminal Project and dumping the concrete at the designated spot. J.A. Lillig Excavating will load the concrete with their loaders into the portable plant. The crushed product will be reused/recycled for the KCI Terminial Project, loaded up into the dump trucks and taken back as recycle material.

The applicant is using one of the methods described in Attachment AA, "Best Management Practices," to control emissions from haul roads and vehicular activity areas.

This installation is located in Platte County, an attainment/unclassifiable 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. The installation's major source level is 250 tons per year and fugitive emissions are not counted toward major source applicability.

No permits have been issued to J.A. Lillig Excavating, Inc. PORT-0794 from the Air Pollution Control Program.

TABLES

Table 1: Equipment List

Emission Point	Equipment List	MHDR
EP-01	Loading into Grizzly	320 tph
EP-02	Primary Crusher	320 tph
EP-03	Four Conveyors (320 tph each)	1280 tph
EP-04	2 deck screen	320 tph
EP-05a	Load-In Stockpile	320 tph
EP-05b	Load-out Stockpile	320 tph
EP-05c	Vehicular Activity (100 feet)	3.03 VMT
EP-5d	Wind Erosion	0.5 acres
EP-6	Haul Roads (400 feet)	10.0 VMT

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. Since this is a new plant, there are no existing actual emissions. 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 that will limit their production to ensure compliance with the annual PM₁₀ de minimis emission limit.

Table 2: Emissions Summary (tons per year)

Air Pollutant	De Minimis Level/SMAL	a Potential Emissions of Process Equipment	Existing Actual Emissions	bPotential Emissions of the Application	Conditioned Potential Emissions
PM	25.0	59.43	N/A	189.55	39.03
PM ₁₀	15.0	21.72	N/A	72.66	<15.0
PM _{2.5}	10.0	3.19	N/A	12.79	2.63
SOx	40.0	N/D	N/D	N/D	N/D
NOx	40.0	N/D	N/D	N/D	N/D
VOC	40.0	N/D	N/D	N/D	N/D
CO	100.0	N/D	N/D	N/D	N/D
GHG (CO₂e)	N/A	N/D	N/D	N/D	N/D
GHG (mass)	N/A	N/D	N/D	N/D	N/D
Total HAPs	25.0	N/D	N/D	N/D	N/D

N/A = Not Applicable; N/D = Not Determined

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).

^aExcludes site specific haul road and storage pile emissions

blncludes site specific haul road and storage pile emissions

Emissions from the rock-crushing equipment:

- Calculated using emission factors from AP-42 Section 11.19.2 "Crushed Stone Processing and Pulverized Mineral Processing," August 2004.
- The uncontrolled emission factors were used because the inherent moisture content of the crushed rock is less than 1.5 % by weight.

Emissions from aggregate handling:

- Calculated using emission factors from AP-42 Section 11.19.2 "Crushed Stone Processing and Pulverized Mineral Processing," August 2004.
- The uncontrolled emission factors were used because the inherent moisture content of the crushed rock is less than 1.5% by weight.

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 90% control efficiency for PM and PM₁₀ and a 74% control efficiency for PM_{2.5} were applied to the emission calculations for the use of BMPs.

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.
- 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."

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 PM₁₀ are conditioned to de minimis levels. Potential emissions of PM are above de minimis levels, but below major levels.

APPLICABLE REQUIREMENTS

J.A. Lillig Excavating, Inc. PORT-0794 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 installation.
- 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 OOO, "Standards of Performance for Nonmetallic Mineral Processing Plants" 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.

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*, 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 June 11, 2019, received June 11, 2019, designating J.A. Lillig Excavating, Inc. as the owner and operator of the installation.

Attachment A: PM₁₀ 12-Month Rolling Total Emissions Tracking Sheet

J.A. Lillig Excavating, Inc. PORT-0794

Project Number: 2019-06-022
Permit Number: 09 2 0 1 9 - 0 0 6

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

Month	Production (tons)	PM ₁₀ Composite Emission Factor (lb/ton)	Monthly PM ₁₀ Emissions ¹ (lbs)	Startup, Shutdown and Malfunction PM ₁₀ Emissions ² (lbs)	Monthly PM ₁₀ Emissio ns ³ (tons)	12-Month Rolling Total Emissions ⁴ (tons)
Example	75,000	0.0520	3,900	0.0	0.2	1.95 + 11 previous months
		0.0520				previous months
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¹Multiply the monthly production by the PM₁₀ composite emission factor.

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

³Add the monthly PM₁₀ emissions plus the SSM emissions from the same time period and divide by 2000 and ⁴Add 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 PM₁₀ per consecutive 12 months 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	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		
BMPsBest Management Practices	Standards		
BtuBritish thermal unit	NESHAPsNational Emissions Standards for		
CAMCompliance Assurance Monitoring	Hazardous Air Pollutants		
CAS Chemical Abstracts Service	NO_x nitrogen oxides		
CEMS Continuous Emission Monitor System	NSPSNew Source Performance Standards		
CFRCode of Federal Regulations	NSRNew Source Review		
COcarbon monoxide	PMparticulate matter		
CO ₂ carbon dioxide	PM _{2.5} particulate matter less than 2.5 microns		
CO ₂ ecarbon dioxide equivalent	in aerodynamic diameter		
COMSContinuous Opacity Monitoring System	PM ₁₀ particulate matter less than 10 microns in aerodynamic diameter		
CSRCode of State Regulations	ppmparts per million		
dscfdry standard cubic feet	PSD Prevention of Significant Deterioration		
EIQ Emission Inventory Questionnaire	PTEpotential to emit		
EP Emission Point	RACTReasonable Available Control Technology RALRisk Assessment Level		
EPA Environmental Protection Agency			
EUEmission Unit	SCCSource Classification Code		
fpsfeet per second	scfmstandard cubic feet per minute		
ftfeet	SDSSafety Data Sheet		
GACTGenerally Available Control Technology	SICStandard Industrial Classification		
GHGGreenhouse Gas	SIPState Implementation Plan		
gpmgallons per minute	SMALScreening Model Action Levels SO _x sulfur oxides SO ₂ sulfur dioxide SSMstartup, shutdown, & malfunction		
grgrains			
GWPGlobal Warming Potential			
HAPHazardous Air Pollutant			
hr hour	tphtons per hour tpytons per year		
hphorsepower	VMTvehicle miles traveled		
lbpound	VOCVolatile Organic Compound		
lbs/hrpounds per hour	VOCvolatile Organic Compound		
MACTMaximum Achievable Control Technology			
μg/m ³ micrograms per cubic meter			
m/smeters per second			
Mgal 1,000 gallons			

MWmegawatt

MHDRmaximum hourly design rate