

# PERMIT BOOK



Jeremiah W. (Jay) Nixon, Governor • Sara Parker Pauley, Director

## DEPARTMENT OF NATURAL RESOURCES

[www.dnr.mo.gov](http://www.dnr.mo.gov)

**OCT 17 2014**

Mr. Casey Kelley  
Manager  
Riverside Composting and Recycling  
300 N. Church Road  
Liberty, MO 64068

RE: New Source Review Temporary Permit Request - Project Number: 2014-09-025  
Installation ID Number: 101-0065  
Temporary Permit Number: **102014-012**  
Expiration Date: December 1, 2014

Dear Mr. Kelley:

The Missouri Department of Natural Resources' Air Pollution Control Program has completed a review of your request to relocate your portable rock-crushing track mounted plant, Terex Pegson 14123. The Air Pollution Control Program is hereby granting your request to conduct this temporary operation at this location in accordance with Missouri State Rule 10 CSR 10-6.060(3).

Riverside Composting and Recycling is locating their portable crusher (PORT-0527) to Whiteman Air Force Base (AFB), Missouri to crush tarmac debris. The portable crusher is a track mounted Terex Pegson model 14123. According to the manufacturer, the crusher is rated at 550 tons per hour. Debris is already located in storage piles at the site. It will be loaded into the crusher's hopper by a front-end loader, processed to size, and conveyed into finished storage piles. The portable crusher consists of a hopper, grizzly feeder, impact crusher, screen, various internal conveyors, and a discharge conveyor. The unit is powered by a diesel engine. However, the engine meets the definition of non-road and was not evaluated in this review.

PORT-0527 received a temporary permit (Project Number 2012-02-034) to operate at Whiteman AFB to crush tarmac debris. This project is the same scenario and the job is expected to be completed by December 1, 2014.

PORT-0527 has been permitted as the portable track mounted crusher, a separate diesel powered tub grinder, and a separate diesel powered screen. Only the portable track mounted crusher is being located to the site. The screening unit and tub grinder will be placed in storage.



Recycled Paper

Riverside Composting and Recycling is authorized to construct and operate subject to the following special conditions:

1. Application of Water-Documented Daily
  - a. Riverside Composting and Recycling 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. Riverside Composting and Recycling shall record the date and volume of water application or the amount of precipitation that day. The operators shall also record the rationale for not watering (e.g. freezing conditions or not operating).
  - e. Riverside Composting and Recycling shall keep these records with the plant for not less than five years, and the operator shall make these records available to Department of Natural Resources' personnel upon request
2. Riverside Composting and Recycling shall install and operate wet spray devices on the crusher. Watering may be suspended during periods of freezing condition, when use of the wet spray devices may damage the equipment. During these conditions, Riverside Composting and Recycling shall adjust the production rate to control emissions from these units. Riverside Composting and Recycling shall record a brief description of such events.
3. Once the broken concrete is crushed, the portable crusher shall be removed from this site, in any case, no later than December 1, 2014.
4. Riverside shall not exceed 480 hours of operation. They shall keep records of the days operated with hours of operation at this site.

Emissions for the project were calculated using emission factors found in the United States Environmental Protection Agency (EPA) document AP-42, *Compilation of Air Pollutant Emission Factors, Volume 1: Stationary Point and Area Sources*, Fifth Edition (AP-42). Emissions from the rock-crushing equipment were calculated using emission factors from AP-42 Section 11.19.2 "Crushed Stone Processing and Pulverized Mineral Processing," August 2004.

Permission to operate the portable crusher at this site is granted for the time period between September 17, 2014 and December 1, 2014 resulting in a maximum potential operating time of 480 hours. Potential emissions were calculated assuming hours of operation to be 480 hours. Potential emissions for this project are summarized in Table 1 below:

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Table 1: Potential Emissions Summary (tons)

PM	PM <sub>10</sub>	PM <sub>2.5</sub>
2.85	1.14	.407

Given that the potential emissions are well below 100 tons for each pollutant, and ambient air quality standards are expected to be maintained, the proposed temporary permit is granted according to the provisions of Missouri State Rule 10 CSR 10-6.060(3). Subsequent notification should be made to the Air Pollution Control Program within two weeks once the portable crusher (PORT-0527) is no longer located at the facility.

You are still obligated to meet all applicable air pollution control rules, Department of Natural Resources' rules, or any other applicable federal, state, or local agency regulations. Specifically, you should avoid violating 10 CSR 10-6.045 *Open Burning Requirements*, 10 CSR 10-6.220, *Restriction of Emission of Visible Air Contaminants*, 10 CSR 10-6.165, *Restriction of Emission of Odors*, 10 CSR 10-6.170 *Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin*.

A copy of this letter should be kept with the unit and be made available to Department of Natural Resources' personnel upon request. If you have any questions regarding this determination, please do not hesitate to contact Kathy Kolb at the Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102 or by telephone at (573) 751-4817. Thank you for your time and attention to this matter.

Sincerely,

AIR POLLUTION CONTROL PROGRAM



Kyra L. Moore  
Director

KLM:kk1

c: PAMS File: 2014-09-025  
Kansas City Regional Office