



Maryland
Department of
the Environment

Wes Moore, Governor
Aruna Miller, Lt. Governor

Serena McIlwain, Secretary
Suzanne E. Dorsey, Deputy Secretary

Mr. Mark Deluca, Chief
Bureau of Environmental Services
Howard County Department of Public Works
6751 Columbia Gateway Drive, Suite 514
Columbia, MD 21046

JUL 02 2024

Dear Mr. Deluca:

Enclosed please find your Permit to Construct (PTC) for the installation of one (1) horizontal grinder, powered by a diesel-fired internal combustion engine rated at 755 bhp at the Alpha Ridge Landfill, 2350 Marriottsville Road, Marriottsville, MD 21104. The permit contains both general conditions, which apply to all air quality permit holders in Maryland, and specific conditions, which apply to the horizontal grinder with engine that you have proposed to install.

The addition of the horizontal grinder with engine qualifies as an "Off-Permit" change to the facility's Part 70 operating permit. The Department recognizes the PTC application as written notification of the proposed change. Please include the unit in the application for the next renewal of the Part 70 permit.

If you have any questions regarding this Permit, please contact Sam Mrida of my staff, at Shazidul.mrida@maryland.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Suna Yi Sariscak".

Suna Yi Sariscak, Manager
Air Quality Permits Program
Air & Radiation Administration

SYS/jm

Enclosure

Wes Moore
Governor

Serena McIlwain
Secretary

State of



Maryland

DEPARTMENT OF THE ENVIRONMENT

Air and Radiation Administration
1800 Washington Boulevard, Suite 720
Baltimore, MD 21230

Construction Permit

Operating Permit

PERMIT NO. 027-0364-9-0490

DATE ISSUED JUL 02 2024

PERMIT FEE \$500.00 (Paid)

EXPIRATION DATE In accordance with COMAR 26.11.02.04B

LEGAL OWNER & ADDRESS

Howard County Department of Public Works
6751 Columbia Gateway Drive, Suite 514
Columbia, MD 21046
Attn: Mr. Mark DeLuca, Chief
Bureau of Environmental Services

SITE

Alpha Ridge Landfill
2350 Marriottsville Road
Marriottsville, MD 21104
Premises No. 027-0364
AI # 1357

SOURCE DESCRIPTION

This Permit authorizes the installation of one (1) horizontal grinder, powered by a diesel-fired internal combustion engine rated at 755 bhp.

This source is subject to the conditions described on the attached pages.

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Program Manager

Director, Air and Radiation Administration

**HOWARD COUNTY ALPHA RIDGE LANDFILL
PERMIT TO CONSTRUCT CONDITIONS
PERMIT No. 027-0364-9-0490**

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- Part B – Applicable Regulations
- Part C – Construction and Operating Conditions
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Part A – General Provisions

(1) The following Air and Radiation Administration (ARA) permit-to-construct application and supplemental information are incorporated into this permit by reference:

- (a) Air Quality Permit to Construct Application for Internal Combustion Engines (Form 44) received on April 23, 2024, for the installation of one (1) horizontal wood grinder (Diamond Z, Model DZH4000) powered by a 755 Hp (Caterpillar, C-18) diesel-fired internal combustion engine to power wood waste grinding equipment.
- (b) Supplemental Information – Vendor Emissions Specifications and engine certification information received April 23, 2024.

If there are any conflicts between representations in this permit and representations in the applications, the representations in the permit shall govern. Estimates of dimensions, volumes, emissions rates, operating rates, feed rates and hours of operation included in the applications do not constitute enforceable numeric limits beyond the extent necessary for compliance with applicable requirements.

(2) Upon presentation of credentials, representatives of the Maryland Department of the Environment (“MDE” or the “Department”) and the Howard County Health Department shall at any reasonable time be granted, without delay and without prior notification, access to the Permittee’s property and permitted to:

- (a) inspect any construction authorized by this permit;
- (b) sample, as necessary to determine compliance with requirements of this permit, any materials stored or processed on-site, any waste materials, and any discharge into the environment;
- (c) inspect any monitoring equipment required by this permit;

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- (d) review and copy any records, including all documents required to be maintained by this permit, relevant to a determination of compliance with requirements of this permit; and
 - (e) obtain any photographic documentation or evidence necessary to determine compliance with the requirements of this permit.
- (3) The Permittee shall notify the Department prior to increasing quantities and/or changing the types of any materials referenced in the application or limited by this permit. If the Department determines that such increases or changes constitute a modification, the Permittee shall obtain a permit-to-construct prior to implementing the modification.
- (4) Nothing in this permit authorizes the violation of any rule or regulation or the creation of a nuisance or air pollution.
- (5) If any provision of this permit is declared by proper authority to be invalid, the remaining provisions of the permit shall remain in effect.
- (6) The installation of the one (1) horizontal wood grinder powered by a 755 Hp diesel-fired internal combustion engine, qualifies as an "Off Permit" change to the facility's Part 70 Operating Permit. The Department recognizes the permit to construct application as written notification of the proposed change and should be included in the application for the next renewal of the Part 70 permit.

Part B – Applicable Regulations

- (1) This source is subject to all applicable federal air pollution control requirements.
- (2) This source is subject to all applicable federally enforceable State air pollution control requirements including, but not limited to, the following regulations:
- (a) COMAR 26.11.02.04B, which states that a permit to construct or an approval expires if, as determined by the Department:
 - (i) Substantial construction or modification is not commenced within 18 months after the date of issuance of the permit or approval, unless the Department specifies a longer period in the permit or approval;
 - (ii) Construction or modification is substantially discontinued for a period of 18 months after the construction or modification has commenced; or

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PERMIT TO CONSTRUCT CONDITIONS
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- (iii) The source for which the permit or approval was issued is not completed within a reasonable period after the date of issuance of the permit or approval.
 - (b) COMAR 26.11.02.09A, which requires that the Permittee obtain a permit-to-construct if an installation is to be modified in a manner that would cause changes in the quantity, nature, or characteristics of emissions from the installation as referenced in this permit.
 - (c) COMAR 26.11.09.05E(2), Emissions During Idle Mode: The Permittee may not cause or permit the discharge of emissions from any engine, operating at idle, greater than 10 percent opacity.
 - (d) COMAR 26.11.09.05E(3), Emissions During Operating Mode: The Permittee may not cause or permit the discharge of emissions from any engine, operating at other than idle conditions, greater than 40 percent opacity.
 - (e) COMAR 26.11.09.07A(2), which limits the sulfur content of distillate fuel oils to not more than 0.3 percent by weight.
- (3) This source is subject to all applicable State-only enforceable air pollution control requirements including, but not limited to, the following regulations:
- (a) COMAR 26.11.06.08 and 26.11.06.09, which generally prohibit the discharge of emissions beyond the property line in such a manner that a nuisance or air pollution is created.

Part C – Construction and Operating Conditions

- (1) Except as otherwise provided in this permit, one (1) horizontal wood grinder powered by a 755 Hp diesel-fired internal combustion engine shall be constructed and operated in accordance with specifications included in the application and any operating procedures recommended by equipment vendors unless the Permittee obtains from the Department written authorization for alternative operating procedures.
- (2) The Permittee shall only burn diesel fuel in the 755 Hp engine unless the Permittee applies for and receives an approval or permit from the Department to burn an alternative fuel.
- (3) The Permittee shall properly operate and maintain the engine powering the horizontal grinder in a manner to prevent visible emissions.

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- (4) The engines shall be operated as nonroad engines, as defined in 40 CFR §1068.30, unless the Permittee complies with the stationary engine requirements of 40 CFR 60, Subpart IIII and 40 CFR 63, Subpart ZZZZ, as applicable.

Part D – Record Keeping and Reporting

The Permittee shall maintain for at least five (5) years, and shall make available to the Department upon request, records of the following information:

- (a) Operating hours for the engine powering the horizontal grinder.
- (b) The Permittee shall report the amount of fuel oil combusted and engine operating hours as part of the annual emission certification.
- (c) Fuel supplier's certification or sulfur on the fuel analyses.