



Missouri Department of Health and Senior Services

P.O. Box 570, Jefferson City, MO 65102-0570 Phone: 573-751-6400 FAX: 573-751-6010
RELAY MISSOURI for Hearing and Speech Impaired and Voice dial: 711

Donald G. Kauerauf
Director



Michael L. Parson
Governor

November 19, 2021

Gig Brewery
RioVation
188 Hillside Drive
Longview, TX 75605

Re: Approval of BioMaze Fixed Film Media Aerobic Treatment Unit Conversion Kit

Mr. Drewery:

Thank you for contacting the Missouri Department of Health and Senior Services (DHSS) regarding the introduction of the BioMaze Fixed Film Media Aerobic Treatment Unit Conversion Kit (BioMaze ATU Kit). The following information should provide you with clear and precise information regarding the use of the BioMaze ATU Kit in Missouri.

Missouri Regulation 19 CSR 20-3.060(E)(3)3 requires all aeration units (ATU) to comply with the National Sanitation Foundation (NSF) Standard 40 and be able to treat a minimum of 120 gallons per bedroom or 500 gallons per day, whichever is greater. Due to the fact that the BioMaze ATU Kit has not been tested and approved by NSF to verify the product meets these requirements, DHSS does not recognize this unit as being compliant with the regulations. Therefore, the BioMaze ATU Kit is not approved to be used:

- For new construction of wastewater systems where a permit is required by the administrative authority;
- For the replacement of wastewater systems where a permit is required by the administrative authority; or
- To abate a nuisance once a Notice of Violation has been issued by the administrative authority to the property owner or user of the wastewater system on any property in Missouri.

However, DHSS does recognize that property owners are allowed to use products that can assist with prolonging the life of their wastewater system. For example; when a property owner is concerned about damp spots in the soil treatment area (STA) and is looking for a product to abate the issue. When this happens, property owners are able to try different remedies to rejuvenate their STA provided they do not perform a major modification to the system such as changing tanks or adding/replacing the lateral field. While you advertise that this product will rejuvenate the STA, DHSS does not recognize/promote the total rejuvenation of the STA for any product.

The use of your product in Missouri is dependent on the type of facility, the wastewater generated from the facility, and the size of the property. Therefore, this letter is only referring to property that is under the jurisdiction of DHSS as defined in Missouri statutes 707.015 – 701.059. For clarification, the use of the product would be approved:

- For new construction of wastewater systems where a permit is not required by the administrative authority;
- For the replacement of wastewater systems where a permit is not required by the administrative authority; or

www.health.mo.gov

Healthy Missourians for life.

The Missouri Department of Health and Senior Services will be the leader in promoting, protecting and partnering for health.

AN EQUAL OPPORTUNITY / AFFIRMATIVE ACTION EMPLOYER: Services provided on a nondiscriminatory basis.

- For situations when a property owner is looking to find a solution to damp spots in the STA provided a violation notice has not been issued by the administrative authority to the property owner or user of the wastewater system.
 - **Local county ordinances can be more restrictive than the State Minimum Construction Standards and therefore prohibit the use of the BioMaze ATU Kit.**

Again, thank you for notifying DHSS regarding the approval and use of the BioMaze ATU Kit. We look forward to continuously working with manufacturers in the wastewater industry as the science continues to improve. If you have any questions, please do not hesitate to contact us.

Sincerely,

A handwritten signature in black ink, appearing to read "Eric Hueste", with a stylized flourish at the end.

Eric Hueste, Chief
Bureau of Environmental Health
Missouri Department of Health and Senior Services