



**RHODE ISLAND**  
**DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**

**OFFICE OF WATER RESOURCES**  
235 Promenade Street, Providence, Rhode Island 02908

**Alternative and Experimental OWTS Technology Program**

**Vendor Information**

Geomatrix Systems, LLC  
114 Mill Road East  
Old Saybrook, CT 06475

**Contacts:**

David Potts  
Phone: 860-510-0730  
Fax: 860-510-0735  
Web: <http://www.geomatrixsystems.com/>

**Technology Name:**

HyAir™ Models:  
HA47  
HA71  
HA138  
HA239  
HA1000

**Technology Type:**

Alternative Component - Class Two

**Certification Date:**

**Issued:** March 29, 2019  
**Expires:** March 29, 2024

**CERTIFICATION**

The RI Department of Environmental Management (RIDEM) has reviewed the Alternative Component application submitted by Geomatrix Systems, LLC, hereafter referred to as the "Vendor", for HyAir™, hereafter referred to as the "Component". Based upon information contained in the application the RIDEM hereby accepts the Component for listing on the RIDEM Alternative and Experimental (A/E) Technology List as a Class Two Component.

The Component is a fiberglass vessel which uses air pressure to lift, or distribute wastewater. It is installed after a septic tank, or treatment system directly in an excavation prepared for it. A level sensor activates the pump when a dose of wastewater is accumulated. The pump increases air pressure until it is sufficient to overcome total dynamic head. When the dose of wastewater has been evacuated, air flow purges the piping of water. If the water level within the Component doesn't drop, an alarm is activated. HyAir can have an optional 12-volt battery backup enabling it to run for two days at design flow.

Design and installation of the Component shall be in accordance with the following terms and conditions:

**I. General Design Requirements**

1. The Component may be installed with any system to lift wastewater, or dose a leachfield; it shall not be installed with cesspools.
2. Design and installation shall be in strict conformance with the RIDEM-approved Component Design, Installation, and Operation and Maintenance Manual dated: **March 29, 2019**.
3. Each Component design and installation shall meet all applicable OWTS standards and receive approval by the RIDEM pursuant to the Rules in effect at the time of application. OWTS Rules for pump tanks are not applicable to the Component.
4. The Component must dose the entire leachfield zone with each cycle.

## **II. Training**

1. The Vendor shall make training available for Designers, Installers, and Service Providers.
2. The Vendor shall make available to the public, a means of verifying individuals, by name and category, who have received training and are authorized in writing by the Vendor to design, install, and maintain the Component.

## **III. General Certification Requirements**

1. The Vendor shall submit a manual(s) detailing design, installation, operation and maintenance requirements for the Component.
2. The Vendor is responsible for providing any revisions to the design, installation, operation and maintenance manual(s) for all models applicable to this certification to RIDEM for review and approval within thirty (30) days of RIDEM request or one hundred and eighty (180) days prior to the expiration date of this Certification. All manuals must be provided to the RIDEM in electronic portable document format (pdf).
3. This Class Two Certification shall be effective until its expiration, and may be renewed according to the provisions of the latest OWTS Rules.
4. The Vendor shall notify the RIDEM in writing of any changes to the Component, including its discontinuation. Modifications deemed by the RIDEM to be substantial, may require re-application to the A/E program.
5. The Vendor shall notify the RIDEM at least thirty (30) days prior to any proposed transfer of ownership of the Component technology. Notification shall include the name and address of the new owner and a written agreement between the existing and new owner specifying a date for transfer of ownership, responsibility, and liability for the Component. All provisions of this Certification shall be applicable to any new owners.
6. The Vendor shall provide any purchaser of the Component with a copy of this Certification prior to the sale of the Component.

## **IV. Operation and Maintenance (O&M)**

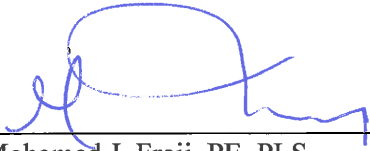
1. Operation and maintenance of the Component shall be performed in strict conformance with the RIDEM approved Component Design, Installation, and Operation and Maintenance Manual dated: **March 29, 2019**.
2. The RIDEM-approved O&M Manual shall be provided to the Owner/Operator.
3. The Component shall be maintained according to the Vendor's specifications.
4. Properly trained system owners may perform O&M on their own Component.
5. The Vendor shall have an inventory of Component replacement parts available locally.

## **V. Rights of the RIDEM**

1. The RIDEM may suspend, modify or revoke this Certification for cause, including but not limited to: Non-compliance with any of the provisions or conditions of this Certification, misrepresentation or failure to fully disclose all relevant data, or receipt of new information indicating the use of the Component is contrary to the public interest, public health or the environment.
2. The design, installation, and operation and maintenance manuals referenced herein are approved upon the date of approval of this Certification.
3. The RIDEM reserves the right to suspend or revoke this Certification if updated design, installation, and O&M manuals are not provided to the RIDEM within thirty (30) days of

RIDEM request or one hundred and eighty (180) days prior to the expiration date of this Certification. All revisions must be reviewed and approved by the RIDEM prior to re-Certification.

4. This Certification does not represent an endorsement of the Component by the RIDEM. This Certification may be reproduced only in its entirety.



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Mohamed J. Freij, PE, PLS  
Supervising Sanitary Engineer  
RIDEM – Office of Water Resources  
Onsite Wastewater Treatment Systems

3.29.19

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Issuance Date