STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

Raul Pino, M.D., M.P.H.
Commissioner

Dannel P. Malloy
Governor

Nancy Wyman
Lt. Governor

Environmental Health Section

May 12, 2016

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

Re: Geomatrix Low-Pressure Effluent Distribution Designs

Dear Mr. Potts:

This Department has reviewed your approval request to allow Geomatrix Systems to design low-pressure effluent distribution dosing systems for use with Geomatrix Systems proprietary leaching system products without a design by a professional engineer (PE). The Department's *Technical Standards for Subsurface Sewage Disposal Systems* (Technical Standards) includes a provision in Section VI that stipulates low-pressure effluent distribution used on leaching systems require a design by a PE, unless a leaching system manufacturer applies for and receives approval from this Department for non-PE designs for use with their leaching systems.

Your approval request included the supporting documentation cited in the Technical Standards that is required to be submitted to the Department, and you indicated that in addition to meeting the Technical Standards requirements for pump systems, your low-pressure effluent distribution designs and installations would provide for the following:

1. Ensure that dirt, debris and foreign matter does not enter piping during transportation and/or installation.
2. Orient orifice shield at the 6 o'clock position to direct flow downwardly and allow for drainage.
3. If laterals are not at the same elevation, valving should be present to independently adjust the distal head for each lateral.
4. Distal ports should be provided to allow for cleaning of the laterals if necessary and for measurement of distal head when laterals are at different elevations.
5. If distal ports are to be contained in an access riser to grade, the port should be a minimum of 18 inches from the end of the leaching system.

Keeping Connecticut Healthy
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This Department hereby APPROVES Geomatrix Systems non-PE low-pressure effluent distribution designs for use on Geomatrix proprietary leaching systems. However this approval does not eliminate the code requirements for PE designs for certain subsurface sewage disposal systems (e.g., large (>2,000 GPD), area of special concern sites). This letter should not be construed to be an endorsement of Geomatrix Systems products, nor does it convey intellectual property rights.

Sincerely,

Robert W. Scully, PE
Supervising Sanitary Engineer
Environmental Engineering Program

Cc: Code Advisory Committee
Local Health Officials

P/RWS/Geomatrix Low-Pressure Distribution Designs