Joseph E. Kernan
Governor

Gregory A. Wilson, M.D.
State Health Commissioner

Indiana State
Department of Health

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January 9, 2004

Mr. Ben Berteau
Regulatory Engineer
Ring Industrial Group, EZflow
65 Industrial Park Road
Oakland, TN 38060

Dear Mr. Berteau:

Re: Gravelless Trench Alternative Technology
       EZflow Drainfield Systems EZ1203H, and EZ1203T

The use of EZflow Drainfield Systems EZ1203H and EZ1203T as alternative gravelless trench systems are hereby approved by the Indiana State Department of Health (department) subject to the conditions listed below.

The gravelless system for which you submitted information is a subsurface soil absorption field system which provides an alternative to the use of gravel in subsurface soil absorption field trenches. As stated in your literature, this gravelless system is designed to be installed in any application where a subsurface gravel-filled trench system is allowed. It is not intended for use in areas where subsurface absorption field systems would be prohibited due to poor permeability, high groundwater, or insufficient depth to bedrock or other limitations.

Approval of the use of EZflow Drainfield Systems EZ1203H and EZ1203T are subject to the following conditions:

1.   The EZ1203H and EZ1203T may be used in subsurface trench soil absorption field systems using gravity flow, alternating fields, flood dosing, or pressure distribution.
2.   A permit for each individual system must be obtained from the health department having jurisdiction prior to the start of construction.
3.   The trench excavations for the EZ1203H must be thirty-six (36) inches in width and the trench excavations for the EZ1203T must be twenty-four (24) inches in width.
4.   The absorption field size must be calculated using the design daily flow and the soil loading rates for subsurface absorption systems set by the department in Rule 410 IAC 6-8.1 or 6-10, whichever is applicable. The total square footage of trench bottom of the EZ1203H and the EZ1203T shall equal or exceed the total square footage of trench bottom required by Rule 410 IAC 6-8.1 or 6-10, whichever is applicable.
5.   Each soil absorption field trench must be level throughout its length.
6.   Except for soil absorption fields using pressure distribution, each soil absorption field trench must be individually connected to the distribution box by at least five (5) feet of four (4) inch gravity non-perforated effluent sewer.

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7. Each effluent sewer must connect to the center pipe of the absorption field trench in the EZ1203H system and in the EZ1203T system.

8. Each section of four inch perforated distribution pipe in the absorption field trenches must be connected to the next section of pipe throughout the length of each soil absorption trench.

9. The distal ends of the soil absorption field trenches may not be not manifolded together.

10. The distal end of each of the four inch perforated distribution pipes in the absorption fields must be capped with end caps.

11. The geotextile fabric used as a barrier material must meet the department's minimum specifications for geotextile nonwoven fabric and must extend the full width and length of the trench.

12. The absorption field trenches must be covered with a minimum of twelve (12) inches of soil material. The soil cover must be crowned or sloped over the absorption field so as to promote surface runoff

13. The use of gravelless systems shall meet all other applicable department standards for residential and commercial subsurface soil absorption systems.

14. All determinations for site suitability for subsurface soil absorption systems shall be made using procedures and criteria established by the department.

If you have any questions regarding this approval, please contact Alan Dunn, Chris Bourke, David Ortel, or Ed Miller of my staff by mail, by telephone at 317-233-7177, or by e-mail (adunn@isdh.state.in.us; cbourke@isdh.state.in.us; dortel@isdh.state.in.us; or, emiller@isdh.state.in.us, respectively).

Sincerely,

Howard W. Cundiff

HOWARD W. CUNDIFF, P. E., DIRECTOR
CONSUMER PROTECTION

cc: Onsite staff
    Local Health Departments