



COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
ONE WINTER STREET, BOSTON, MA 02108 617-292-5500

ARGEO PAUL CELLUCCI
Governor

TRUDY COXE
Secretary

August 12, 1998

Kevin Greene
Environmental Specialist
Zabel Environmental Technology
10409 Watterson Trail
Jeffersontown, Kentucky 40299

Re: Approval of Zabel Filtered Pump Vaults
Model Numbers: FPV-H34-A100, FPV-H36-2, FPV-H36-4, FPV-H44-2, FPV-H44-4,
FPV-I36-2, FPV-I36-4, FPV-I44-2, FPV-I44-4.

Dear Mr. Greene:

The Department has received your letter, dated April 10, 1998, requesting approval of the above referenced pump vaults. The Zabel Filtered Pump Vaults are designed to be installed in the pump chamber or septic tank to filter out solids and prevent clogging of the distribution piping. The Department has completed its review of your submittal. The Department does not object to the use of this vault in systems designed in accordance with Title 5 and local boards of health have the authority to approve Title 5 systems designed to include this component, subject to the following conditions:

1. When the Zabel Filtered Pump Vault is used in a septic tank, the septic tank shall be a multiple compartment tank or two tanks in series. The Zabel Filtered Pump Vault shall be installed in the second compartment or tank. The Zabel Filtered Pump Vault may be allowed to be used only in septic tanks which have an existing opening large enough to accept the placement of the vault. The Zabel Filtered Pump Vault may not be allowed to be used where an altered or expanded opening in the septic tank lid must be made.
2. The pump chamber or septic tank, in which the Zabel Filtered Pump Vault is to be installed, shall have a minimum reserve capacity above the working level (i.e. the pump on elevation) equal to the daily design flow. A septic tank in which the Zabel Filtered Pump Vault is to be installed also must have the capacity required by 310 CMR 15.223 below the pump-off elevation.
3. In accordance with 310 CMR 15.221(3), the pump chamber or septic tank in which a Zabel Filtered Pump Vault is to be installed must be equipped with a manhole with a minimum diameter of 20 inches. In addition, the manhole cover must clearly note

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(either painted with non-degradable paint or other permanent, identifiable markings) the system is equipped with a Zabel Filtered Pump Vault.

4. The requirement of 310 CMR 15.231(7), that pumps shall be capable of passing a minimum solid size of 1/4 inch diameter is not applicable to the Zabel Filtered Pump Vault.
5. In any contract for distribution or sale of the Zabel Filtered Pump Vault, the distributor or seller must be required to provide the purchaser of the vault, prior to any sale of the vault, with a copy of this letter. Additionally, any seller of the Zabel Filtered Pump Vault must provide the purchaser of the vault with a copy of this letter prior to sale of the vault.
6. Prior to installation in an existing system, the system owner shall obtain approval from the local approving authority for the proposed modification of the system. If the system is a failed, failing, or nonconforming system, the system shall be upgraded in accordance with 310 CMR 15.404.
7. The owner of a system in which a Zabel Filtered Pump Vault has been installed shall have a septage hauler, licensed by the local Board of Health in accordance with G.L.c. 111 s. 31A and 310 CMR 15.502, clean the filter at least once every year. The system owner shall report, in writing, to the local Board of Health within 30 days of the date of cleaning every time the filter is cleaned.
8. The design and construction of a system in which the vault is installed must comply with the provisions of 310 CMR 15.000.
9. The Department has made no determination as to the extent, if any, that the Zabel Filtered Pump Vault will improve the performance of an on-site sewage disposal system.

Should you have any questions regarding this matter, please do not hesitate to contact Christos Dimisoris at (617) 292-5912.

Sincerely,

Lealdon Langley
Acting Program Director
Watershed Permitting Program

cc: SERO, WERO, CERO, NERO
John Higgins/Millbury office
Local Boards of Health

ZABELFPV.APP