



Missouri Department of Health and Senior Services

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TO: Local Public Health Agencies and other local Onsite Sewage Agencies
Environmental Public Health Specialist V's

THROUGH: Mark Jenkerson, Chief
Bureau of Environmental Health Services

FROM: James Gaughan, P.E.
Onsite Wastewater Treatment Program

SUBJECT: Experimental Protocol for AES Wastewater Treatment Systems

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The Department of Health and Senior Services, Onsite Wastewater Treatment Program has reviewed and accepted the Presby Environmental, Inc. (PEI) proposed innovative/experimental system protocol for treatment and soil dispersal systems using the Advanced Enviro-Septic (AES) system. A copy of the experimental protocol is available from the Onsite Wastewater Treatment Program. The AES system is described as providing combined treatment and dispersal of wastewater that has received primary treatment in a septic tank. The main system component is the patented AES pipe, which is a high-density plastic pipe that is ridged and perforated. A layer of geo-textile fabric partially surrounds the outer surface along the bottom of the pipe. A mat of coarse, randomly-oriented, plastic fibers surrounds the outside of the pipe, and another layer of geo-textile fabric surrounds the pipe and is stitched together to hold the fiber mat in place. The system is installed within a bed or trench of specified system sand. Systems include ventilation to maintain aerobic conditions in the AES system. Installation of up to 200 AES systems is allowed under this protocol. Following are general guidelines for considering proposed AES systems.

System design and installation must follow the AES Missouri Experimental Design and Installation Manual and each system is subject to review and construction permit approval by the local administrative authority. PEI requires all AES designers and installers to be certified by completing an AES certification course. A DHSS registered advanced system installer, trained and certified by AES, must install AES systems. AES training will be available, and is recommended, for individuals involved in permitting or inspecting AES systems.

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AES will notify property owners regarding the experimental status of AES systems and will warrantee the product. Under the innovative/experimental protocol, monitoring will be performed for 25 systems about one year after installation. Monitoring will be performed a second time for at least 10 of these systems after about one more year. Evidence of any system malfunction and any potential warranty issue related to systems installed under this protocol must be reported to the Onsite Wastewater Treatment Program.

DHSS does not endorse any brand or specific product model. However, a system using the AES product may be approved by local administrative authorities as part of an onsite wastewater treatment system when the proposed system design complies with the AES Missouri Design and Installation Manual and the requirements of the state minimum standards, or local standards, which can be more stringent. Approval may be discontinued at any time, if warranted by subsequent field experience with installed systems.