

1.4.2.3 Gravelless System Product Approvals

Manufacturers seeking approval of a gravelless system product (e.g., chamber or synthetic media) as an alternative to drainfield aggregate shall submit product information to the DEQ on-site wastewater coordinator for review by DEQ and TGC. In addition to product information described in section 1.4, manufacturers must submit NSF/ANSI Standard 240 approvals, reports, and associated data. Any additional third-party standards evaluated for the gravelless system product must also be submitted including approvals, disapprovals, reports, and associated data.

DEQ will issue gravelless system product approval with associated sizing reduction allowances. Sizing reductions will be determined by analyzing the open trench bottom area, associated sidewall area, and storage capacity in comparison to a standard trench. Each component will be analyzed independently and compared to a standard trench, taking into account NSF/ANSI Standard 240 data. Reductions provided may be allowed up to a maximum of 25%.

Approval of products that have not undergone NSF/ANSI Standard 240 will not be considered for sizing reductions.

1.4.2.4 Proprietary Wastewater Treatment Product Approval Policy

Proprietary wastewater treatment products (PWTP) for subsurface sewage disposal are produced by a manufacturer to provide secondary wastewater treatment. PWTPs shall be considered on a case-by-case basis by the TGC. The manufactured product must have treatment characteristics similar to single-pass or recirculating media filters to be classified as a proprietary wastewater treatment product. Products requiring mechanical components in excess of a single-pass or recirculating media filter or that may allow wastewater to pass through the system untreated by design will not be considered for proprietary approval.

PWTP manufacturers must obtain approval from DEQ before permitting and installation. To obtain approval, the manufacturer must submit the required information listed in section 1.4 of this manual to DEQ's on-site wastewater coordinator. To justify the product's effectiveness for wastewater treatment, the manufacturer must also submit the final evaluation report on the product from NSF International under the provisions of NSF/ANSI Standard 40 or another equivalent third-party standard. The NSF/ANSI Standard 40 report is required to obtain the same drainfield sizing reduction and separation distance reduction to limiting layers for the product as intermittent sand or recirculating gravel filters. If the manufacturer wants to obtain approval for TN reduction, they must submit the final evaluation report on the product from NSF International under the provisions of NSF/ANSI Standard 245 or another equivalent third-party standard. The NSF/ANSI Standard 245 report is required to obtain the same TN reduction as the recirculating gravel filter. Equivalency of third-party standards will be made by DEQ on a case-by-case basis.

Approval of PWTPs must be recommended to DEQ by the TGC. Approval of a PWTP may be required to undergo the same two-level approval process as ETSPs (section 1.4.2.2) depending on the system design and effluent reduction approvals sought. Approval processes and minimum installation requirements for PWTPs shall be determined on a case-by-case basis by the TGC. PWTPs submitted for approval that have not been evaluated under NSF/ANSI Standard 40 and/or 245, or another equivalent third-party standard shall not be considered for reduction in

drainfield disposal area or for separation reductions to limiting layers. All approved PWTPs shall be installed by a permitted complex installer. Approved PWTPs are listed in section 5.14.

PWTPs may also require periodic operation and maintenance. The O&M provider for all PWTPs shall be determined on a case-by-case basis by the TGC and may be a property owner or an approved service provider. If a PWTP is approved, permitted, and installed with a nitrogen reduction limit that exceeds the nitrogen reduction limit of a recirculating gravel filter, the O&M provider for the PWTP shall be an approved service provider, and the system shall follow the same operation, maintenance, monitoring, and reporting requirements as ETSPs. If a nitrogen reduction limit is approved for a PWTP, it shall be listed in section 5.14.

1.4.2.5 All Other Product Approvals

All other wastewater products intended for installation in a subsurface sewage disposal system shall follow the process outlined in section 1.4 of this manual. If a product has been evaluated and meets a standard developed by NSF/ANSI, the product may be reviewed and approved for use by DEQ without TGC recommendation. For products that have not undergone NSF testing and certification, the necessary materials as described in section 1.4 must be submitted to DEQ for review by the TGC for approval recommendation.

1.5 Installer's Registration Permit

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An installer is considered any person, corporation, or firm engaged in the business of excavation for, or the construction of, subsurface sewage disposal systems (IDAPA 58.01.03.003.19). Per IDAPA 58.01.03.006.01, all installers must obtain either a standard/basic or complex installer's registration permit. These permits may be obtained from any health district in the state and may be used for installing subsurface sewage disposal systems throughout the state regardless of the health district through which the registration permit was obtained. Standard/basic installer's registration permit holders are limited in the type of subsurface sewage disposal systems that may be installed. Complex alternative installer's registration permit holders may install all systems that are allowed by the standard/basic registration permit and all of the following complex alternative systems:

- At-grade soil absorption system
- Drip distribution systems
- Evapotranspiration and evapotranspiration/infiltrative systems
- Experimental systems
- Extended treatment package systems
- Pressurized grey water systems
- Individual lagoons
- Pressure distribution or transport systems
- Recirculating gravel filters
- Intermittent sand filters
- Enveloped in-trench sand filters
- Pressurized in-trench sand filters