1.4.2.2 Extended Treatment Package System Approvals

Extended treatment package systems (ETPS) are required to undergo two levels of approval in Idaho (IDAPA 58.01.03.009.03). The first level of approval is provisional approval based upon a manufacturer's submitted literature and data that support the treatment claims for the product. The second level of approval is general approval based upon a manufacturer's proven performance after installation and operation in Idaho. Upon receiving provisional approval, a manufacturer must proceed to obtain general approval within a specified timeframe otherwise the product will be disapproved.

1.4.2.2.1 Provisional ETPS Approval

Provisional ETPS approval allows a manufacturer's unit to be installed on a property, but the system must undergo annual operation, maintenance, monitoring, and reporting performed by an approved service provider and third-party tester. Operation, maintenance, monitoring, and reporting are the responsibility of the manufacturer under provisional approval.

Manufacturers seeking provisional approval of ETPS technology shall submit product information to DEQ's on-site wastewater coordinator for review by DEQ. In addition to product information (i.e., engineering designs and product manuals), manufacturers seeking approval on ETPS units for reducing total suspended solids (TSS) and carbonaceous biological oxygen demand ($CBOD_5$) must submit NSF/ANSI Standard 40 approvals, reports, and associated data or equivalent third-party standards. Manufacturers also seeking approval on the ETPS units for reduction of total nitrogen (TN) must submit NSF Standard 245 approvals, reports, and associated data or equivalent third-party standards. Equivalency determinations of third-party standards shall be made by DEQ on a case-by-case basis. All third-party standards evaluated for the ETPS model must be submitted including approvals, disapprovals, reports, and associated data. ETPS units that have not undergone third-party testing and wish to be approved for reduction in TSS, $CBOD_5$, and TN must be permitted and installed under the guidance in Section 4.7, "Experimental System."

As part of their request for provisional approval, manufacturer shall submit a quality assurance project plan to document how sampling and analysis will occur under provisional approval and identify who will perform both the sampling and analysis. All operation and maintenance performed during the provisional approval stage shall be done by a service provider approved by DEQ. All effluent testing performed during the provisional approval stage shall be done by a third-party contracted by the manufacturer with experience in wastewater sampling. The service provider and effluent tester may not be the same individual or work for the same company. The manufacturer seeking approval and third-party tester will be responsible for obtaining property access for testing of their system's effluent during the provisional approval stage. The manufacturer shall also be responsible for effluent testing costs.

All ETPS manufacturers that obtain provisional approval for one of their products must attempt to gain general approval and shall follow the minimum operation, maintenance, and effluent-testing procedures outlined in section 1.9. Upon receiving provisional approval for an ETPS model, a manufacturer must install that specific ETPS model within 2 years. If installation of the provisionally approved product does not occur within 2 years of the provisional approval, the ETPS model shall be disapproved (IDAPA 58.01.03.009.04). Once a manufacturer's ETPS

model is installed under provisional approval, operation, maintenance, and monitoring (OMM) of that unit as described in the manufacturer's quality assurance project plan and section 1.9 must begin that same reporting year unless the system was installed less than 3 weeks before the reporting deadline. Additionally, if OMM of the provisionally approved unit are not submitted to DEQ for any year after initial installation under provisional approval, the ETPS model shall be disapproved. Installed products under provisional approval that are disapproved shall be replaced by the manufacturer with a system that meets the installation requirements of the specific site where the ETPS model is installed.

ETPS with initial provisional approval effective July 1, 2016, must meet the requirements of section 1.4.2.2.2 for general approval by July 1, 2018, or may be considered a disapproved product.

1.4.2.2.2 General ETPS Approval

General ETPS approval allows a manufacturer's unit to be installed on a property without the requirement to sample effluent on an annual basis for systems that are not required to obtain a TN level <27 milligrams per liter (mg/L). The property owner must still have their ETPS unit undergo annual operation, maintenance, and reporting performed by an approved service provider.

To obtain general approval, or to lower reduction levels from those set in a general approval for any constituent, the EPTS model manufacturer must submit data from the ETPS models installed in Idaho. The data submitted must be obtained through OMM protocols described in section 1.4.2.2.1 under a DEQ-accepted quality assurance project plan. Data from other states will not be considered under this approval process. Any data submitted must be specific to a particular ETPS make and model. Data submission must include information on 30 installations with a minimum of 3 full years of operational data on each system, or the equivalent number of data points obtained on an annual basis for a lesser number of installations. All maintenance and effluent testing records, as described in section 1.9, obtained over this period must be submitted for review.

DEQ will issue general approval of an ETPS product in conjunction with associated reduction levels for TSS, $CBOD_5$, and TN. TSS and $CBOD_5$ reduction levels will be set at less than or equal to 45 mg/L and 40 mg/L, respectively, based on the data showing that 90% of the installed units have successfully maintained effluent reduction levels at, or below, 45 mg/L TSS and 40 mg/L $CBOD_5$. TN reduction levels will be determined through statistical analysis of the data submitted. The submitted data will be statistically evaluated to determine a resulting value that corresponds to a 95% upper confidence limit. The resulting value that corresponds to the 95% upper confidence limit will be used as the system's TN performance limit. Third-party report average reduction values will not be accepted to establish system performance approvals for any constituent.

For an adjustment in reduction levels of effluent constituents to be approved from a current general approval, a manufacturer must submit data that were obtained through a DEQ-accepted quality assurance project plan as described in section 1.4.2.2.1. Adjustments shall be made based on data analysis described in section 1.4.2.2.2 except that the data must be obtained over a period