Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

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APPROVAL FOR REMEDIAL USE
Pursuant to Title 5, 310 CMR 15.00

Name and Address of Applicant:

Saneco, Inc.
65 Eastern Avenue
Essex, MA 01929

Trade name of technology: Low Rate Intermittent Sand Filter used in conjunction with a screened pump vault located in the septic tank (hereinafter called the "System"). Schematic Drawings illustrating each System, a design and installation manual, an owner's manual, an operation and maintenance manual, and an inspection checklist are part of this Approval.

Transmittal Number:	W031240
Date of Issuance:	January 14, 2005 (modified March 11, 2008)
Revision date:	November 05, 2012

Authority for Issuance

Pursuant to Title 5 of the State Environmental Code, 310 CMR 15.000, the Department of Environmental, Protection hereby issues this Approval for Remedial Use to: Saneco, Inc., 65 Eastern Avenue, Essex, MA 01929 (hereinafter "the Company"), approving the System described herein for Remedial Use in the Commonwealth of Massachusetts. The sale, design, installation, and use of the System are conditioned on compliance by the Company, the Designer, the Installer, the Service Contractor, and the System Owner with the terms and conditions set forth below. Any noncompliance with the terms or conditions of this Approval constitutes a violation of 310 CMR 15.000.

November 05, 2012

David Ferris, Director
Wastewater Management Program
Bureau of Resource Protection

Date

Technology Description

The System consists of a screened pump vault, which fits into the septic tank, an Intermittent Sand Filter and a pump chamber. The Low-Rate Intermittent Sand Filter consists of a 24-inch layer of sand sandwiched between two layers of stone, the minimum depth of each stone layer is six inches. A distribution manifold embedded in the top layer of stone distributes the screened septic tank effluent over the sand. A four inch perforated pipe embedded in the bottom layer of stone collects the filtered effluent and delivers it to a pump chamber for disposal via pressure distribution in a soil absorption system.

Conditions of Approval

The term "System" refers to the STU in combination with the other components of an on-site treatment and disposal system that may be required to serve a facility in accordance with 310 CMR 15.000.

The term "Approval" refers to the technology-specific Special Conditions, the conditions applicable to all STU's with Remedial Use Approval, the General Conditions of 310 CMR 15.287, and any Attachments.

For Secondary Treatment Units that have been issued Remedial Use Approval for the upgrade or replacement of an existing failed or nonconforming system., the Department authorizes reductions in the effective leaching area (310 CMR 15.242), the depth to groundwater (310 CMR 15.212), and/or the depth of naturally occurring pervious material (310 CMR 15.240(1)) subject to the conditions that apply to all Secondary Treatment Units Approved for Remedial Use and subject to the Special Conditions applicable to the Technology.

Special Conditions

1. The System is Secondary Treatment Unit Approved for Remedial Use. In addition to the Special Conditions contained in this Approval, the System shall comply with all the "Standard Conditions for Secondary Treatment Units Approved for Remedial Use", except where stated otherwise in these Special Conditions.

2. The System is approved for facilities where the local approving authority finds that:
   a) there is no increase in the actual or proposed design flow;
   b) the System is for the upgrade of a failed, failing or nonconforming system; and
   c) a conventional system with a reserve area, designed in accordance with the standards of 310 CMR 15.100 through 15.255, cannot feasibly be built on-site.

3. The loading rate for the Low-Rate Intermittent Sand Filter shall not exceed 1.2 gallons per square foot per day.

4. The System shall be installed in series between a complying Title 5 septic tank that includes a pump vault instead of an effluent tee and the soil absorption system of a standard Title 5 system constructed in accordance with 310 CMR 15.100 - 15.279, subject to the provisions of this Approval.