



Health

Certificate of Accreditation

Sewage Management Facility

Aerated Wastewater Treatment System

This Certificate of Accreditation is issued by the Secretary of the NSW Ministry of Health pursuant to Clause 41(1) of the Local Government (General) Regulation 2005.

System: BioSeptic Performa AWTS

Manufacturer: BioSeptic Pty Ltd

*Of: 67 Smeaton Grange Road,
Smeaton Grange, NSW, 2567*

The BioSeptic Performa AWTS as described in Schedule 1, has been accredited as a sewage management facility for use in a single domestic premises in NSW. This accreditation is subject to the conditions of accreditation and permitted uses specified in Schedule 2.

*A/Director, Environmental Health
for Secretary (delegation PH335)*

Issued: 17 November 2015

Certificate No: AWTS 007

Expires: 31 December 2020

Schedule 1: Specification

BioSeptic Performa Aerated Wastewater Treatment System

General Description

The BioSeptic Performa Aerated Wastewater Treatment System (AWTS) is designed to treat the wastewater from a residential dwelling occupied by a maximum of 10 persons. The BioSeptic Performa AWTS is contained in a vertical axis type cylindrical precast concrete septic tank and collection well with design capacities of 3550 litres and 3750 litres respectively. The operational water level in the system is 1485 mm. The system consists of:

- A primary treatment/septic tank with a capacity of 3550 litres;
- A secondary treatment/collection well with a capacity of 3750 litres and containing:
 - Two aeration chambers with a total capacity of 2500 litres;
 - A clarification chamber with a capacity of 500 litres;
 - A chlorine contact and irrigation pump well chamber with a capacity of 400 litres;
- A chlorine disinfection unit installed on the outlet of the clarifying chamber;
- Air is supplied to the aeration chambers by an air blower with a nominal 80 capacity of 80 litres/minute;
- An automatic, submersible irrigation pump with a minimum 7 metre head.

Schedule 2: Conditions of Accreditation

1.0 General

- 1.1 For each installation the owner/occupier of the premises shall make an application to the local council to install a BioSeptic Performa AWTS as a sewage management facility in accordance with Section 68, Part C of the Local Government Act 1993 and Clause 26 of the Local Government (General) Regulation 2005.
- 1.2 The BioSeptic Performa AWTS shall be supplied, constructed and installed in accordance with the design as submitted and accredited by the NSW Ministry of Health.
- 1.3 Any modification or variations to the accredited design of the BioSeptic Performa AWTS shall be submitted for separate consideration and variation of the Certificate of Accreditation by the Secretary of the NSW Ministry of Health.
- 1.4 Each BioSeptic Performa AWTS shall be permanently and legibly marked on a non-corrosive metal plaque or equivalent, attached to the lid with the following information:
 - The brand name of the system;
 - The manufacturer's name or registered trademark;
 - The month and year of manufacture.
- 1.5 The manufacturer shall supply with each BioSeptic Performa AWTS an owner's manual, which sets out the care, operation, maintenance and on-going management requirements of the system.
- 1.6 The manufacturer shall provide the following information to each local authority where it is intended to install an AWTS in their area once Departmental accreditation has been obtained:

<ul style="list-style-type: none">• Statement of warranty• Statement of service life• Quality Assurance Certification• Installation Manual• Service Manual• Accreditation documentation from NSW Health.	<ul style="list-style-type: none">• Owner's Manual• Service Report Form• Engineering Drawings on A3 format• Detailed Specifications• A4 Plans
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2.0 Installation and Commissioning

- 2.1 The local council should require that on completion of the installation of the BioSeptic Performa AWTS, the system is inspected and checked by the manufacturer or the manufacturer's agent. The

manufacturer or the agent is to certify that the system has been installed and commissioned in accordance with its design, conditions of accreditation and any additional requirements of the local council.

- 2.2 The local council should require that all electrical work must be carried out by a licensed electrician and in accordance with the relevant provisions of AS/NZS 3000.

3.0 Maintenance

- 3.1 The local council shall require the owner/occupier of a premises to enter into an annual service contract with a representative of BioSeptic Pty Ltd or a service contractor or company acceptable to the Council.
- 3.2 The BioSeptic Performa AWTS shall be serviced at three monthly intervals in accordance with the details set out in the owner's and service manual.
- 3.3 Each three monthly service shall include a check on all mechanical, electrical and functioning parts of the system including:
- The chlorinator and replenishment of the disinfectant,
 - Pumps, air blower, fan or air venturi,
 - The alarm system,
 - Slime growth on the filter media,
 - Operation of the sludge return system,
 - The effluent irrigation area,
 - On-site testing for free residual chlorine, pH and dissolved oxygen.
- 3.4 The local council should require that a service report sheet, in triplicate, is completed for each service. The original shall be given to the owner, the duplicate forwarded to the local council and the triplicate retained by the service contractor.

4.0 On-going Management

- 4.1 The owner's manual prepared by the manufacturer shall contain a plan for the on-going management of the BioSeptic Performa AWTS. The plan shall include details of:
- the treatment process,
 - procedures to be followed in the event of a system failure,
 - emergency contact numbers,
 - maintenance requirements,
 - inspection and sampling procedures to be followed as part of the on-going monitoring program developed by the local authority.
- 4.2 Effluent from the BioSeptic Performa AWTS taken in any random grab sample shall comply with the following standard:
- | | |
|--------------------------|---|
| • BOD ⁵ | less than 30 mg/L |
| • TSS | less than 45 mg/L |
| • E. coli | less than 100 cfu/100 ml |
| • Free residual chlorine | greater than 0.2 and less than 2.0 mg/L |

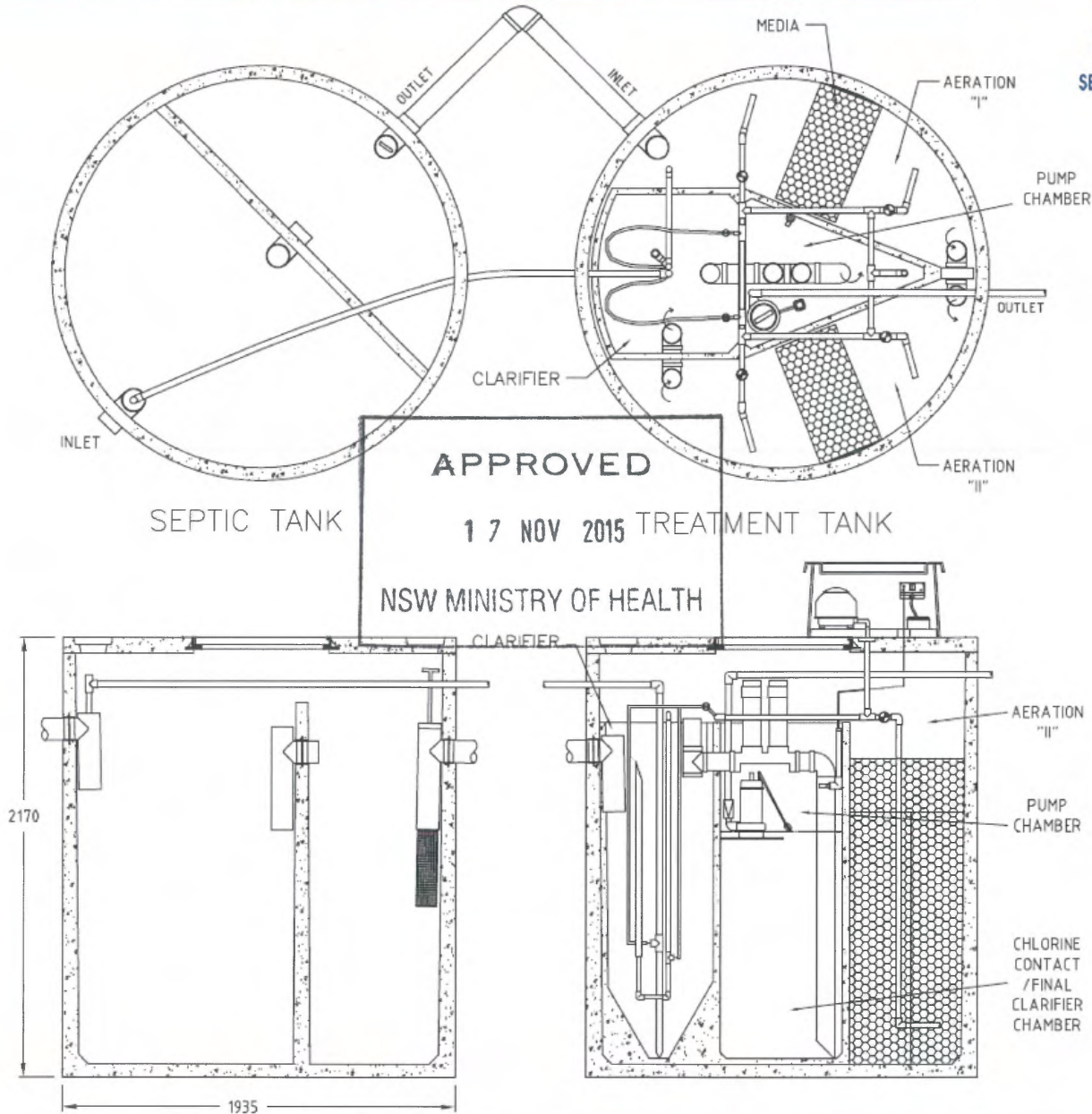
5.0 Permitted uses

- 5.1 The effluent is suitable for re-use for garden purposes by way of any of the forms of irrigation as described in AS/NZS 1547:2000:
- above ground spray irrigation; or
 - surface drip irrigation covered by mulch; or
 - sub-surface drip irrigation installed at around 100 mm depth.

Each of the three forms of irrigation is subject to the approval of the Council.

BioSeptic PERFORMA 10 Person AWTS

NSW Health Certificate of Accreditation - 007



DESCRIPTION

- The BioSeptic Performa is a ten person aerated wastewater treatment system (AWTS)
- The BioSeptic Performa AWTS uses concrete tanks and chambers and has been in production since 1993.
- NSW Health Department Certificate of Accreditation – 007
- BioSeptic holds SAI Global third party accreditation for Product Certification to:
 - NSW Health Department aerated wastewater treatment systems (AWTS) Approval Guideline Part 3
 - AS/NZS1546.3 – On site domestic wastewater treatment systems
 - AS/NZS1546.1 – On site wastewater treatment systems
 - Part 1 septic tanks

Septic Tank	3550L
Aeration 1	1250 L
Aeration 2	1250 L
Clarifier	500 L
Chlorine Contact Chamber	300 L
Pump Chamber	100 L
Surcharge Volume	1050L
Tested at	2137 L/day



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