

Australian Standard[®]

**Greywater treatment systems for
vessels operated on inland waters**



This Australian Standard® was prepared by Committee WS-037, Greywater Treatment Systems for Vessels Operated on Inland Waters. It was approved on behalf of the Council of Standards Australia on 31 July 2009.
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The following are represented on Committee WS-037:

- Australian Marine Industries Federation
- Boating Industry Association of South Australia
- CSIRO
- Department of Transport, Energy and Infrastructure South Australia
- Environment Protection Authority, South Australia
- Goulburn Murray Water
- Houseboat Hirers Association, South Australia
- Murray–Darling Basin Authority
- NSW Maritime
- South Australian Murray-Darling Basin Natural Resources Management Board

Additional Interests:

- Department of Health, Government of South Australia
 - SA Water
-

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PREFACE

This Standard was prepared by the Standards Australia Committee WS-037, Greywater Treatment Systems for Vessels Operated on Inland Waters.

The objective of this Standard is to provide boat builders, associated system and/or component manufacturers and vessel owners and operators with specifications for greywater treatment systems for vessels operated on inland waters.

This Standard may be adopted as the basis of future standards for vessels operated on other waters.

This Standard is based on ISO 8099, *Small craft—Toilet waste retention systems*, and AS 3542, *Pleasure boats—Toilet waste collection, holding and transfer systems*.

The term ‘normative’ has been used in this Standard to define the application of the Appendix to which it applies. A ‘normative’ appendix is an integral part of a Standard.

Statements expressed in normative terms in notes to tables are deemed to be requirements of this Standard.

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STANDARDS AUSTRALIA

Australian Standard**Greywater treatment systems for vessels operated on inland waters**

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies requirements for the design, construction, installation and operation of greywater treatment systems for vessels operated on inland waters.

This Standard may not be suitable for vessels operated on marine waters.

NOTE: Means for demonstration of compliance with this Standard are given in Appendix C.

1.2 NORMATIVE REFERENCES

The following documents are indispensable to the application of this Standard:

NOTE: Documents referenced for informative purposes are listed in the Bibliography.

AS

- 1319 Safety signs for the occupational environment
- 1345 Identification of the contents of pipes, conduits and ducts
- 3542 Pleasure boats—Toilet waste collection, holding and transfer systems

AS/NZS

- 2243 Safety in laboratories
- 2243.3 Part 3: Microbiological aspects and containment facilities
- 3000 Electrical installations (known as the Australian/New Zealand Wiring Rules)
- 3004 Electrical installations—Marinas and recreational boats
- 3004.2 Part 2: Recreational boats installations
- 3500 Plumbing and drainage
- 3500.2 Part 2: Sanitary plumbing and drainage
- 5667 Water quality—Sampling
- 5667.1 Part 1: Guidance on the design of sampling programs, sampling techniques and the preservation and handling of samples
- 60079 Explosive atmospheres
- 60079.0 Part 0: Equipment—General requirements

1.3 TERMS AND DEFINITIONS

For the purpose of this Standard, the definitions below apply.

1.3.1 Biochemical oxygen demand (BOD)

The amount of dissolved oxygen consumed by microbiological action when a sample is incubated over 5 days at 20°C.

1.3.2 Backflow

Flow in a direction contrary to the normal or intended direction of flow.