



RECYCLED WATER

Recycled Water Class Definitions



Recycled Water is produced from Water Reclamation Plants (WRP) at a standard appropriate for its intended use. It must be 'fit for purpose' and treated according to the Environment Protection Authority's *Guidelines for Environmental Management – Use of Reclaimed Water 2003 and Dual Pipe Water Recycling Schemes 2005*.

These describe four classes of recycled water, their quality parameters and their acceptable use.

Class	Water Quality Objectives	Treatment Process ¹	Acceptable Uses ²	
A	<ul style="list-style-type: none"> <10 <i>E coli</i> org/100mL pH 6-9 7 – log virus reduction 6 – log protozoa reduction 	Tertiary treatment & pathogen reduction with sufficient log reduction to achieve bacteriological parameters	<ul style="list-style-type: none"> Raw human food crops exposed to the recycled water (eg. tomatoes, lettuce) Livestock drinking (excluding pigs) Dairy cattle grazing/fodder Cooked/processed human food or selected crops not directly exposed to the recycled water Grazing and fodder for cattle, sheep, horses, goats, alpacas etc (excluding pigs) 	<ul style="list-style-type: none"> Non-food crops eg. woodlots, turf, flowers Residential uses eg. toilet flushing, washing machine, gardens Unrestricted public access areas eg. sporting facilities, botanical gardens, water features, golf courses Open industrial systems eg. industrial laundry, carwashes Road construction
B	<ul style="list-style-type: none"> <100 <i>E coli</i> org/100mL <20mg/L BOD <30mg/L suspended solids pH 6-9 	Secondary treatment & pathogen reduction	<ul style="list-style-type: none"> Livestock drinking (excluding pigs) Dairy cattle grazing/fodder Cooked/processed human food or selected crops not directly exposed to the recycled water Grazing and fodder for cattle, sheep, horses, goats, alpacas etc (excluding pigs) 	<ul style="list-style-type: none"> Non food crops eg. woodlots, turf, flowers Restricted public access areas eg. sporting facilities, golf courses (4 hour drying period before public access) Closed industrial systems Road construction
C	<ul style="list-style-type: none"> <1000 <i>E coli</i> org/100mL <20mg/L BOD <30mg/L suspended solids pH 6-9 	Secondary treatment & pathogen reduction	<ul style="list-style-type: none"> Cooked/processed human food or selected crops not directly exposed to the recycled water Grazing and fodder for cattle, sheep, horses, goats, alpacas etc (excluding dairy cattle & pigs) 	<ul style="list-style-type: none"> Non food crops eg. woodlots, turf, flowers Restricted public access areas eg. sporting facilities, golf courses (4 hour drying period before public access) Closed industrial systems Road construction
D	<ul style="list-style-type: none"> <10000 <i>E coli</i> org/100mL <20mg/L BOD <30mg/L suspended solids pH 6-9 	Secondary treatment	<ul style="list-style-type: none"> Non food crops eg. woodlots, turf, flowers 	



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Recycled Water Production

Bendigo

- › The Bendigo Water Reclamation Plant (WRP) produces, Class A, Class B and Class C recycled water.
- › Class A is produced in the recycled water factory and is available via the pipeline, standpipe and some rural channels. Customers include City of Greater Bendigo for its sporting facilities, parks and gardens, schools, rural customers and commercial customers (for dust suppression, carwash and road works).
- › Class B is produced prior to the recycled water factory. It can be used for dust suppression, road construction purposes and other commercial uses approved by Coliban Water and the Environment Protection Authority.

This class water is also supplied to the Fosterville gold mine.

- › Class C is produced from the lagoons and is used for irrigation on site and off site.

Kyneton

- › The Kyneton WRP produces Class B and Class C recycled water, which is used for onsite agricultural use and also supplied to the Kyneton Racecourse and Macedon Ranges Shire Council for watering sports ovals and the Botanic Gardens.

Castlemaine

- › The Castlemaine WRP produces Class C recycled water, which is supplied to the Castlemaine Golf Course via a pipeline and to earthworks companies for dust suppression and construction works.

Heathcote

- › The Heathcote WRP produces Class C recycled water, which is supplied to the Heathcote Golf Club for irrigation use.

Axedale

- › The Axedale WRP produces Class B recycled water, which is supplied to the Axedale Golf Club for irrigation use.

Echuca

- › The Echuca WRP is managed by Water Infrastructure Group. Under the Campaspe Water Reclamation Scheme, all of Echuca's wastewater is treated to Class B standard and is recycled to irrigation farmers in the Rochester Irrigation District.

Other sites

All of our other WRP's produce Class C recycled water, which is fully committed to irrigators or used on site.

Footnotes to definitions table:

1. For further information on treatment processes, refer to EPA Publication 730.1 *Guidelines for Environmental Management; Disinfection of Reclaimed Water 2003*.
2. For further information on acceptable uses and management requirements, refer to EPA Publication 464.2 *Guidelines for Environmental Management; Use of Reclaimed Water, 2003* and EPA Publication 1015 *Guidelines for Environmental Management – Dual Pipe Water Recycling Schemes, October 2003*.

Further information

If you have questions about recycled water, please contact our Recycled Water Officer on 1300 363 200.

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Disclaimer: Information contained in this document was correct at the time of printing (June 2012). Coliban Water reserves the right to alter information, as deemed necessary.