

**TREATMENT PLANT APPROVAL 18/2021**  
*Plumbing and Drainage Act 2018*

**Approval**

1. The **Econocycle ENP 10-2** (“the system”) described in the Specifications and Drawings in the attached Schedule and manufactured by **Eco Septic Pty Ltd** (ABN 086 310 474) (“the manufacturer”) has been assessed in accordance with the Queensland Plumbing and Wastewater Code (QPW Code) dated 26 October 2017.
2. Approval is granted for the secondary quality wastewater treatment system, subject to compliance by the manufacturer with the requirements of the *Plumbing and Drainage Regulation 2018*, and the conditions of approval detailed below.
3. This approval, the conditions of approval and the Schedule comprise the entire Treatment Plant Approval document.
4. Any modification by the manufacturer to the design, drawings or specifications scheduled to this approval must be approved by the Chief Executive.

**Conditions of approval**

5. The manufacture, installation, operation, service and maintenance of the systems must be in conformity with the conditions of this Treatment Plant Approval.
6. The secondary quality wastewater treatment system, which is an example of the approved systems, may only be used on premises that generate per day:
  - (a) a maximum hydraulic loading of 2,000 litres; and
  - (b) a maximum organic loading of 700g BOD<sup>5</sup>
7. The system must continue to meet the requirements of secondary quality wastewater treatment system, producing the following effluent quality:
  - (a) 90% of the samples taken must have a BOD<sup>5</sup> less than or equal to 20 g/m<sup>3</sup> with no sample greater than 30g/m<sup>3</sup>.
  - (b) 90% of the samples taken must have total suspended solids less than or equal to 30g/m<sup>3</sup> with no sample greater than 45g/m<sup>3</sup>.
  - (c) 90% of the samples taken must have a thermotolerant coliform count not exceeding 200 organisms per 100 mL with no sample exceeding 1000 organisms per 100 mL.
  - (d) Total chlorine concentration must be between 0.5g/m<sup>3</sup> and 2.0 g/m<sup>3</sup> in four out of five samples taken.
8. Each system must be serviced in accordance with the details supplied in the owner’s operation and maintenance manual.
9. This approval does not extend, apply to, or include the land application system used in conjunction with an approved system installed on premises.

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Delegated Authority  
Department of Energy & Public Works



10. Each system must be supplied with —

- (a) a copy of this Treatment Plant Approval document;
- (b) details of the system;
- (c) instructions for authorised persons for its installation;
- (d) a copy of the owner's manual to be given to the owner at the time of installation; and
- (e) detailed instructions for authorised service personal for its operation and maintenance.

11. At each anniversary of the Treatment Plant Approval date, the supplier must submit to the Chief Executive a list of all systems installed in Queensland during the previous 12 months. Where the Chief Executive is notified of any system failures the Chief Executive may randomly select a number of installed systems for audit. The Chief Executive will notify the supplier's nominated NATA accredited laboratory which systems are to be audited for BOD<sup>5</sup> and TSS. The sampling and testing of the selected systems, if required, is to be done at the supplier's expense. The following results must be reported to the Chief Executive;

- a)Address of premises;
- b)Date inspected and sampled;
- c)Sample identification number;
- d)BOD<sup>5</sup> for influent and effluent; and
- e)TSS for influent and effluent.

12. The Chief Executive may, by written notice, cancel this approval if the manufacturer/supplier fails —

- a)to comply with one or more of the conditions of approval; or
- b)within 30 days, to remedy a breach, for which a written notice been given by the Chief Executive.

13. This approval may only be assigned with the prior written consent of the Chief Executive.

14. This approval expires on 01 January 2024 unless cancelled earlier in accordance with paragraph 12 above.

**Stacey McInnes**

**A/Director  
Plumbing, Drainage and Special Projects  
Building Legislation and Policy**

Date approved: 07 April 2021

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**SCHEDULE**

**Attachment 1**

Drawings and Specifications for the

**Econocycle ENP 10-2**

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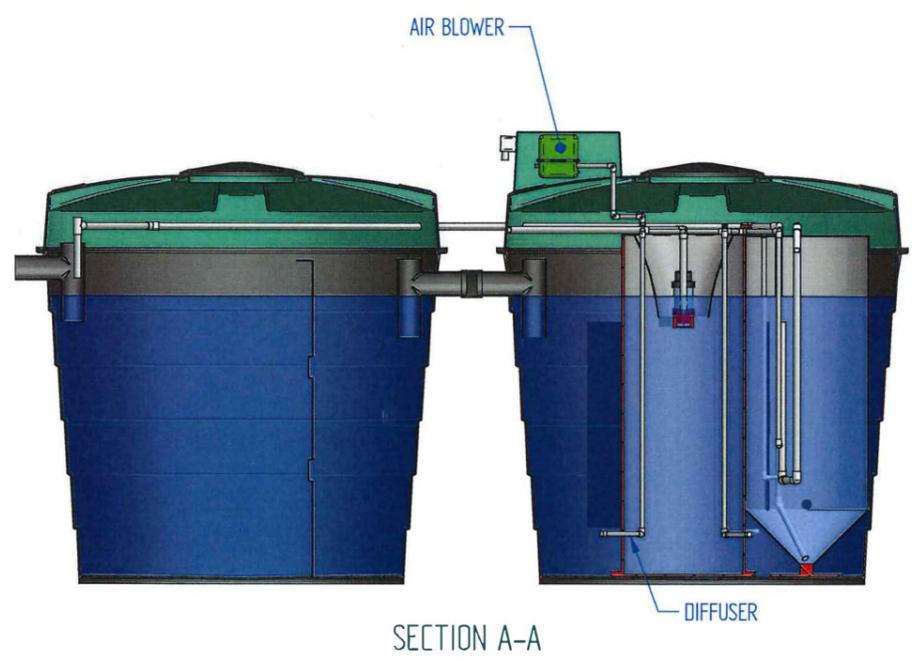
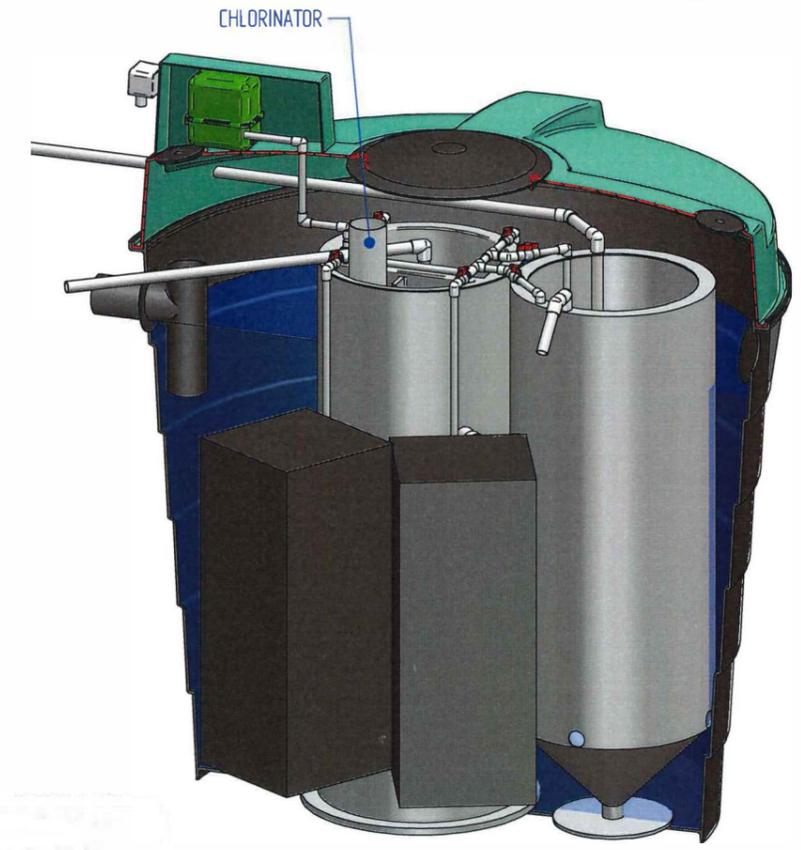
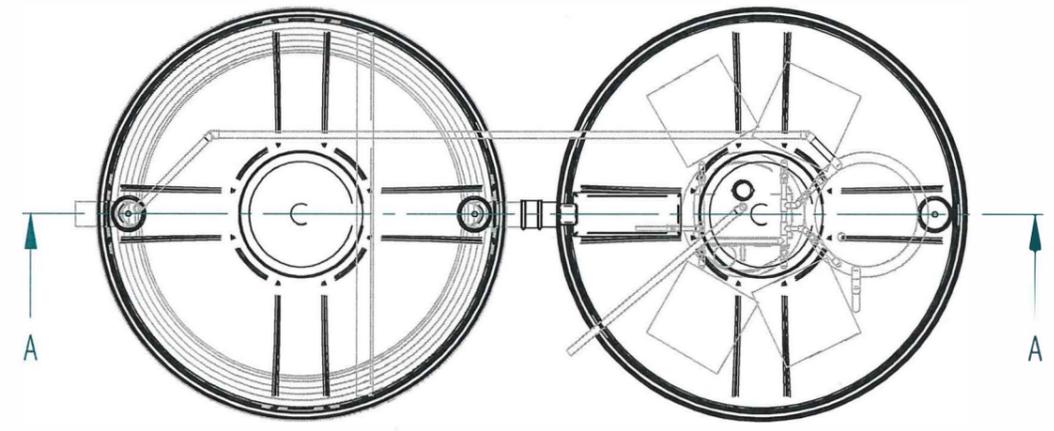
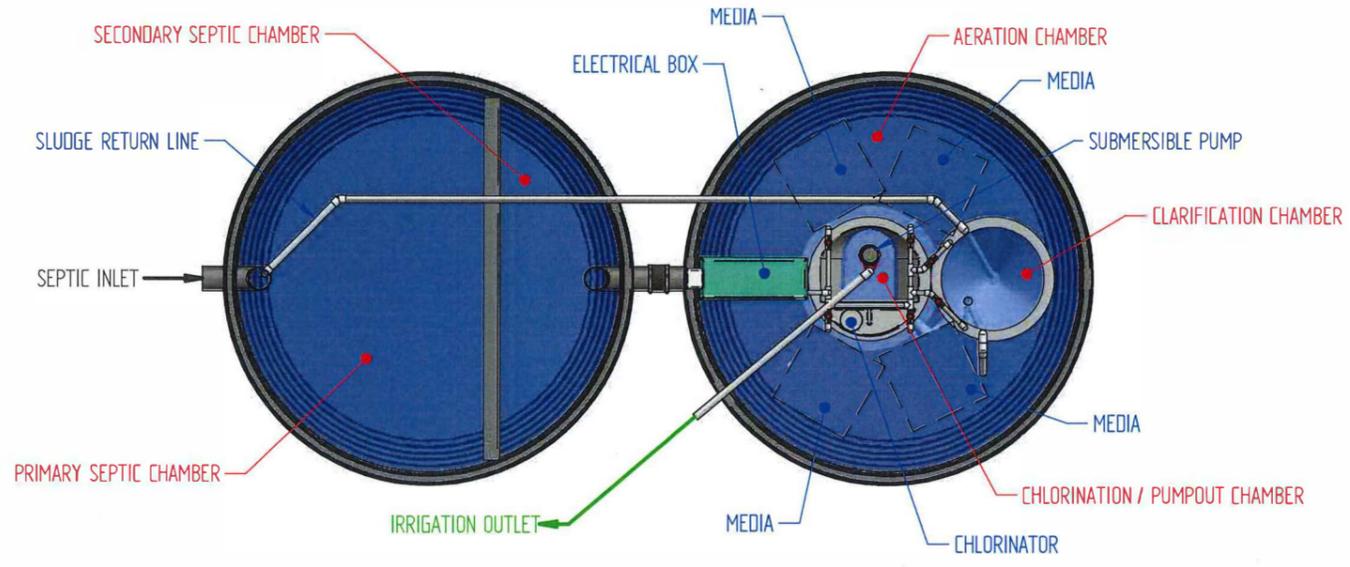
# MODEL ENP10-2 SPECIFICATION

- |                                     |   |
|-------------------------------------|---|
| 1) Number of persons                | 10  |
| 2) Temperature & Humidity range     | -2°C - 45°C<br>12% - 95%  |
| 3) Tanks                            | Twin 3000 litres - Everhard Plastic Tanks /<br>3200 litres - ReIn Plastic Tanks |
| 4) Blower                           | 80 litres per minute  |
| 5) Irrigation Pump                  | 7.5 metre head automatic start  |
| 6) Septic Section                   | 3000 litres. Tank with baffle at 2/3 - 1/3 position                             |
| 7) Aeration Section                 | 2100 litres of aeration divided into two sections                               |
| 8) Clarifier                        | 0.3m <sup>2</sup> / 0.03m <sup>2</sup> per person / 383 litres                  |
| 9) Chlorine contact & Pump-Out Tank | 330 litres. Tank with internal pump out section                                 |
| 10) Media                           | 50m <sup>2</sup> (4 packs x 500 x 500 x 800mm)<br>Aqua Cool CF1900              |
| 11) Diffusers                       | 4 x 500mm   |
| 12) Chlorinator                     | 1 Chlorine Canister (space for 2 <sup>nd</sup> if required)                     |

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**NOTES:**  
 1. PARTS AND/OR CONFIGURATIONS MAY CHANGE WITHOUT NOTICE.  
 2. SEPTIC TANKS MANUFACTURED AND TESTED IN ACCORDANCE WITH AS/NZS 1546.1:2008

 <b>Econocycle</b> AERATED WASTEWATER TREATMENT SYSTEMS	 UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN MM	PROJECT	PLASTIC TWIN TANK		
		TITLE	PLASTIC TWIN TANK SYSTEM CERTIFICATION DRAWING		
<b>COPYRIGHT</b> <small>THIS DRAWING AND INFORMATION CONTAINED HEREIN REMAINS THE EXCLUSIVE PROPERTY OF ECONOCYCLE AND CANNOT BE COPIED OR REPRODUCED WITHOUT A WRITTEN PERMISSION</small>	SCALE	DATE PLOTTED	19/10/2010	SHEET SIZE	A3
	DO NOT SCALE	DRAWING LAST MODIFIED BY	P. MCKAY	REVISION	A.3
	DRAWN BY	P. MCKAY	PART#	124_2210	SHEET No.
	MODELLED BY	P. MCKAY			1 OF 1