

**CHIEF EXECUTIVE APPROVAL 04/2018**  
*Plumbing and Drainage Act 2002, part 5.*

**Approval**

31. The **Econocycle ENP10-2** ("the system") described in the Specifications and Drawings in the attached Schedule and manufactured by **Eco-Septic Pty Ltd** ("the manufacturer") (ABN 086 310 474) has been assessed in accordance with the Queensland Plumbing and Wastewater Code (QPW Code) dated 15 January 2013.
32. Approval is granted for the secondary quality wastewater treatment system, subject to compliance by the manufacturer with the requirements of the *Plumbing and Drainage Act 2002*, part 5 and the conditions of approval detailed below.
33. This approval, the conditions of approval and the Schedule comprise the entire Chief Executive Approval document.
34. 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**

35. The manufacture, installation, operation, service and maintenance of the systems must be in conformity with the conditions of this Chief Executive Approval.
36. The secondary quality wastewater treatment system may only be used on premises that generate per day:
  - (a) a maximum hydraulic loading of 2000L; and
  - (b) a maximum organic loading of 700g BOD<sub>5</sub>
37. For the system to meet the requirements of a secondary quality wastewater treatment system, the system must produce the following effluent quality —
  - (a) 90% of the samples taken must have a BOD<sub>5</sub> less than or equal 20g/m<sup>3</sup> with no sample greater than 30g/m<sup>3</sup>; and
  - (b) 90% of the samples taken must have total suspended solids less than or equal 30g/m<sup>3</sup> with no sample greater than 45g/m<sup>3</sup>; and
  - (c) 90% of the samples taken must have thermotolerant coliform count not exceeding 200 organisms per 100 mL with no sample exceeding 1000 organisms per 100mL.
  - (d) The total chlorine concentration must be greater than or equal to 0.5gm<sup>3</sup> and less than 2.0g/m<sup>3</sup> in four out of five samples taken.
38. Each system must be serviced in accordance with the manufacturers details supplied in the owner's service and maintenance manuals.
39. Each system must be supplied with —
  - (a) a copy of this Chief Executive Approval document;
  - (b) details of the system and ancillary equipment;
  - (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.
40. This approval does not extend, apply to, or include the land application system used in conjunction with an approved system installed on premises.
41. At each anniversary of the Chief Executive Approval date, the manufacturer must submit to the Chief Executive a list of all systems installed in Queensland that they have received an installation and commissioning certificate for during the previous 12 months.
42. Where the Chief Executive is notified of any system failures that are believed to be the result of poor design or faulty manufacture, the Chief Executive may randomly select a number of installed systems for audit. The Chief Executive will notify the National Association of Testing Agencies (NATA) accredited laboratory nominated by the manufacturer, which systems are to be audited for Biochemical Oxygen Demand (BOD<sub>5</sub>) and Total Suspended Solids (TSS). The sampling and testing of the selected systems, if required, is to be done at the manufacturer's expense. The following results must be reported to the Chief Executive;
- (k) Address of premises.
- (l) Date inspected and sampled.
- (m) Sample identification number.
- (n) Biochemical Oxygen Demand (BOD<sub>5</sub>).
- (o) Total Suspended Solids (TSS).
43. The Chief Executive may, by written notice, cancel this approval if the manufacturer fails — to comply with one or more of the conditions of approval; or within 30 days, to remedy a breach, for which a written notice been given by the Chief Executive.
44. This approval may only be assigned with the prior written consent of the Chief Executive.
45. This approval expires on 12 August 2023 unless cancelled earlier in accordance with paragraph 13 above.



**Lindsay Walker**  
**Director**  
**Building Legislation & Policy**

Date approved: 13 August 2018

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**CHIEF EXECUTIVE APPROVAL No. 04/2018**  
*Plumbing and Drainage Act 2002, part 5, division 1, section 93*

**SCHEDULE**

**Attachment 1**

Specifications for the

**Econocycle ENP10-2**

Department of Housing and Public Works	
<b>Chief Executive Approval</b>	
Approval No:	<u>04/2018</u>
Date of Issue:	<u>13/1/18</u>
Delegate Signature:	<u></u>
Building Codes Queensland	

# 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)                     |

Department of Housing and Public Works	
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Building Codes Queensland	

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*Plumbing and Drainage Act 2002, part 5, division 1, section 93*

**SCHEDULE**

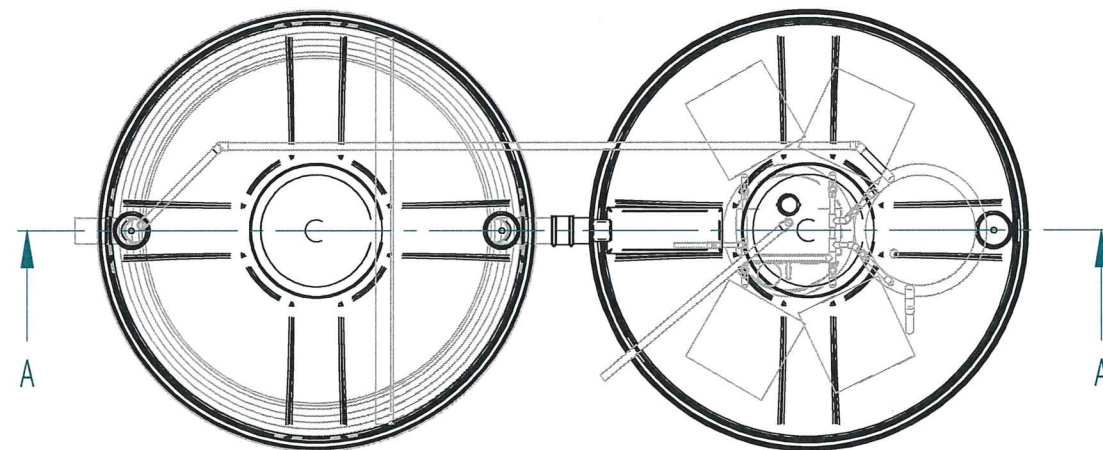
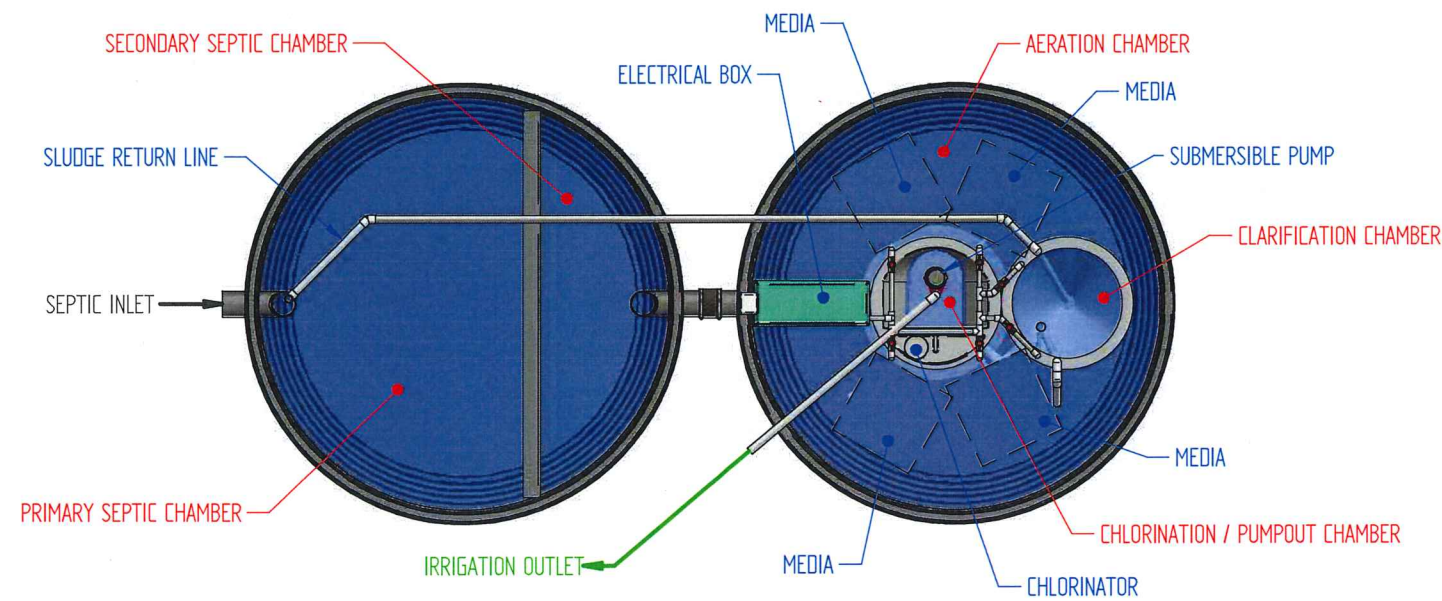
**Attachment 2**

Drawings for the

**Econocycle ENP10-2**

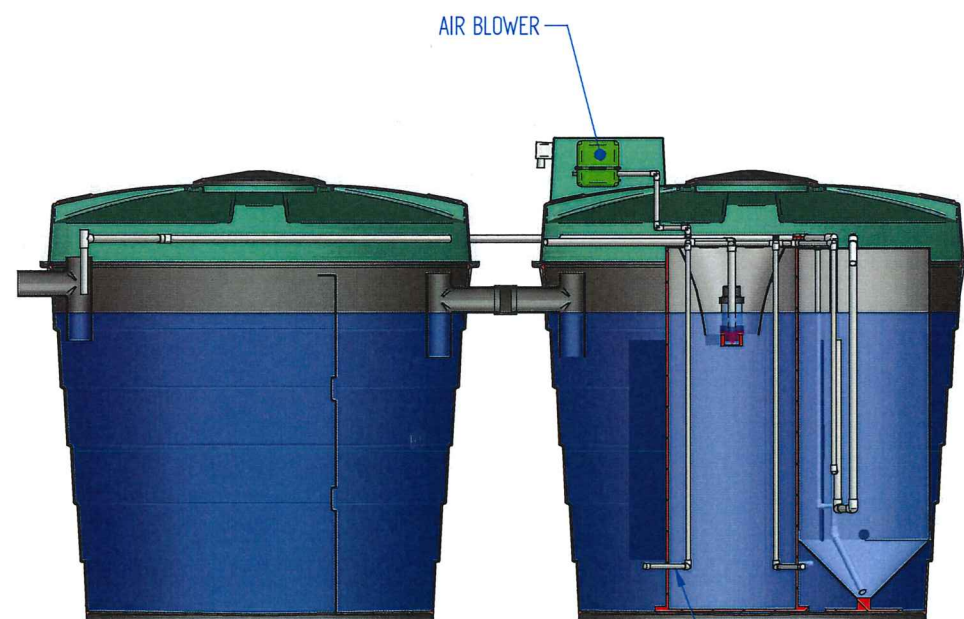
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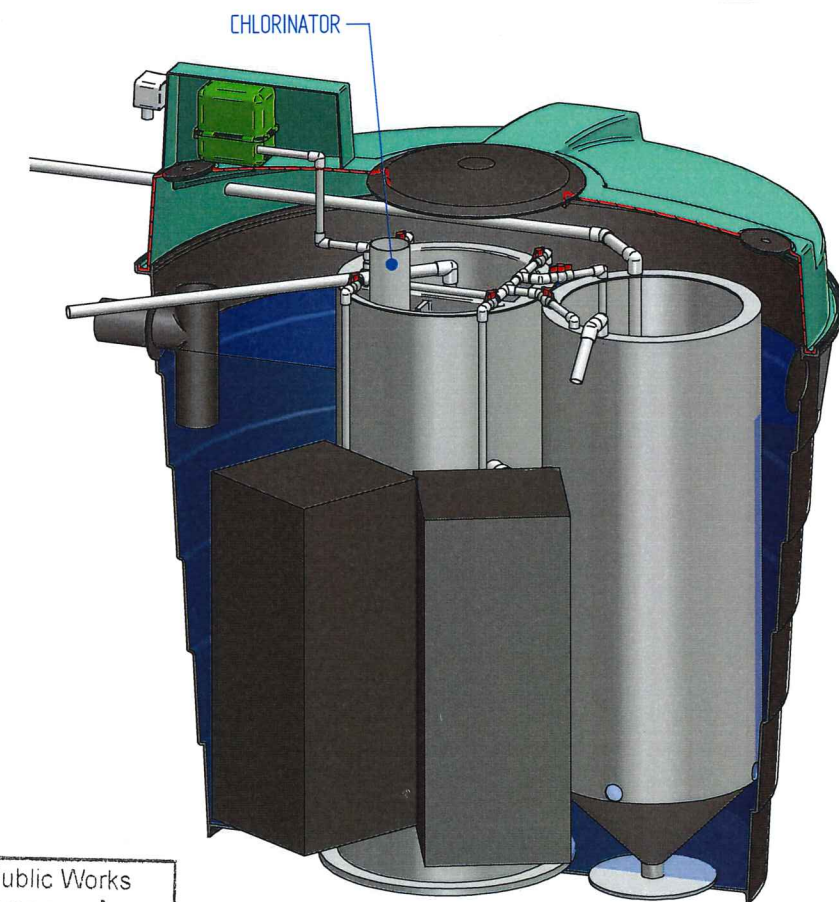


SEPTIC TANK

TREATMENT TANK






SECTION A-A



Department of Housing and Public Works  
**Chief Executive Approval**  
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 Delegate Signature: *[Signature]*  
 Building Codes Queensland

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			PROJECT PLASTIC TWIN TANK	
			TITLE PLASTIC TWIN TANK SYSTEM CERTIFICATION DRAWING	
<div>COPYRIGHT</div> <div>THIS DRAWING AND INFORMATION CONTAINED HEREIN REMAINS THE COPYRIGHT PROPERTY OF ECONOCYCLE AND CANNOT BE COPIED OR REPRODUCED WITHOUT WRITTEN PERMISSION</div>	SCALE DO NOT SCALE	DATE PLOTTED 19/10/2010	COAT/TREAT. —	SHEET SIZE A3
	DRAWN BY P MCKAY	DRAWING LAST MODIFIED BY P MCKAY	PART#  124_2210	
	MODELLED BY P MCKAY	MODEL LAST MODIFIED BY P MCKAY		1 OF 1