

## TREATMENT PLANT APPROVAL 05/2020

### *Plumbing and Drainage Act 2018*

#### Approval

1. The **Eco Pro AWTS (10EP/1500L)** ("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 March 2019.
2. Approval is granted for the advanced 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 system when tested by a certification accreditation body in accordance with AS1546.3:2017 was found to comply with the advanced secondary 10EP/1500L level without nutrient reduction effluent criteria and must continue to meet the following requirements:

**TABLE 2.1 (AS1546.3:2017)**  
**EFFLUENT COMPLIANCE CRITERIA**  
**FOR AN STS WITH NO NUTRIENT**  
**REDUCTION FACILITIES**

Parameter	Secondary effluent		Advanced secondary effluent	
	90% of samples	Maximum	90% of samples	Maximum
BOD <sub>5</sub>	≤20 mg/L	30 mg/L	≤10 mg/L	20 mg/L
TSS	≤30 mg/L	45 mg/L	≤10 mg/L	20 mg/L
<i>E. coli</i> *	≤10 cfu/100 mL	30 cfu/100 mL	≤10 cfu/100 mL	30 cfu/100 mL
FAC	Minimum 0.5 mg/L†	N/A	Minimum 0.5 mg/L†	N/A
Turbidity	N/A	N/A	N/A	5 NTU

\* Where disinfection is required.

† Minimum level, not 90% of samples.

7. Each system must be serviced in accordance with the accreditation certificate and details supplied in the owner's operation and maintenance manual.

**Treatment Plant Approval**

Approved by: Lindsay Walker

Delegated Authority

Department of Housing & Public Works

8. 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.
9. 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.
10. 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.
11. This approval may only be assigned with the prior written consent of the Chief Executive.
12. This approval expires on 17 September 2025 unless cancelled earlier in accordance with paragraph 10 above.

**Treatment Plant Approval**

Approved by: Lindsay Walker

Delegated Authority

Department of Housing & Public Works



Lindsay Walker

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

Date approved: 18 September 2020

Level 7,  
63 George Street Brisbane  
GPO Box 2457, Brisbane Qld 4001

Telephone +61 7 3008 2557

Facsimile +61 7 3237 1248

Website [www.hp.w.qld.gov.au](http://www.hp.w.qld.gov.au)

ABN 61 331 950 314

**TREATMENT PLANT APPROVAL No. 05/2020**  
*Plumbing and Drainage Act 2018*

**SCHEDULE**

**Attachment 1**

Drawings and Specifications for the

**Eco Pro AWTS (10EP/1500L)**

**Treatment Plant Approval**

Approved by: Lindsay Walker

Delegated Authority

Department of Housing & Public Works

# PRODUCT CERTIFICATE OF REGISTRATION



## Global Certification Pty Ltd

Number 517

Product Performance Testing

**AS 1546.3:2017**

**Advanced Secondary 10EP Level  
without Nutrient Reduction**

Issued to

**ECO – Septic Pty Ltd T/as Econocycle**

65 – 67 Warradale Road, Warragamba, NSW 2752

**Certification Date: - 3/11/2019      Expiry Date: - 3/11/2024**

### Product Certified:

Model	Disinfection	Average Results over the Test Period	Servicing Frequency	Discharge	Manufactured and assembled
Ecoseptic model Eco Pro AWTS	Yes	TSS 7.14mg/l BOD <sub>5</sub> <2mg/l Turbidity 16.39NTU E coli <1CFU/100ml	3 Monthly Service  3.2 yearly sedimentation pump out or as required	Pumped via disinfection/pump chamber with chlorine dispenser	Manufactured and Assembled: 65 Warradale Road, Warragamba NSW 2752
The system took 5 weeks to meet the advanced secondary standard.					

**NACE CODES: 3700**

This Certificate of Conformance to the Product Certificate Scheme for "Domestic Wastewater Treatment Units (Septic Tanks) and Rainwater Tanks" remains the property of Global Certification Pty. Ltd. and is granted subject to the terms and conditions of the Contract Application, in respect of the Product certified on this page and the attached schedule to the Certification of Conformance, bearing the same number as this certificate.

Date of Issue: 3<sup>rd</sup> November 2019      **Bruce Smith Director**



[www.jas-anz.com.au/register](http://www.jas-anz.com.au/register)

Signed for and on behalf of Global Certification Pty Ltd  
PO Box 195, Morayfield QLD 4506

**Treatment Plant Approval**  
Approved by: Lindsay Walker  
Delegated Authority  
Department of Housing & Public Works



# PRODUCT CERTIFICATE OF REGISTRATION



## Global Certification Pty Ltd

Number 630

Product Performance Testing

**AS 1546.3:2017**

**Advanced Secondary 1500 L/day 10EP Level  
without Nutrient Reduction**

Issued to

**ECO – Septic Pty Ltd T/as Econocycle**

65 – 67 Warradale Road, Warragamba, NSW 2752

**Certification Date: - 3/11/2019      Expiry Date: - 3/11/2024**

### Product Certified:

Model	Disinfection	Average Results over the Test Period	Servicing Frequency	Discharge	Manufactured and assembled
Ecoseptic model Eco Pro Poly 1500	Yes	TSS 7.14mg/l BOD <sub>5</sub> <2mg/l Turbidity 16.39NTU E coli <1CFU/100ml	3 Monthly Service  3.2 yearly sedimentation pump out or as required	Pumped via disinfection/pump chamber with chlorine dispenser	Manufactured and Assembled: 65 Warradale Road, Warragamba NSW 2752
The system took 5 weeks to meet the advanced secondary standard.					

**NACE CODES: 3700**

*This Certificate of Conformance to the Product Certificate Scheme for "Domestic Wastewater Treatment Units (Septic Tanks) and Rainwater Tanks" remains the property of Global Certification Pty. Ltd. and is granted subject to the terms and conditions of the Contract Application, in respect of the Product certified on this page and the attached schedule to the Certification of Conformance, bearing the same number as this certificate.*

Date of Issue: 29<sup>th</sup> August 2020      **Bruce Smith Director**



[www.jas-anz.com.au/register](http://www.jas-anz.com.au/register)

Signed for and on behalf of Global Certification Pty Ltd  
PO Box 953 Belconnen ACT 2616

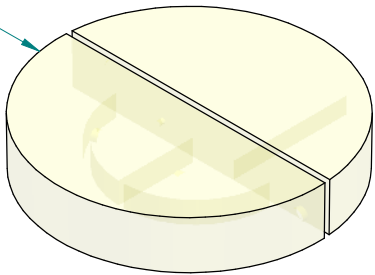
### Treatment Plant Approval

Approved by: Lindsay Walker  
Delegated Authority  
Department of Housing & Public Works



TITLE	VOLUME
FREEBOARD VOLUME	1976 L
TREATMENT CHAMBER 1 VOLUME	2000 L
TREATMENT CHAMBER 2 VOLUME	1000 L
TREATMENT CHAMBER 3 VOLUME	2231 L
TREATMENT CHAMBER 4 VOLUME	465 L
TREATMENT CHAMBER 5 VOLUME	370 L

TOTAL FREEBOARD CHAMBER VOLUME: 1976 L



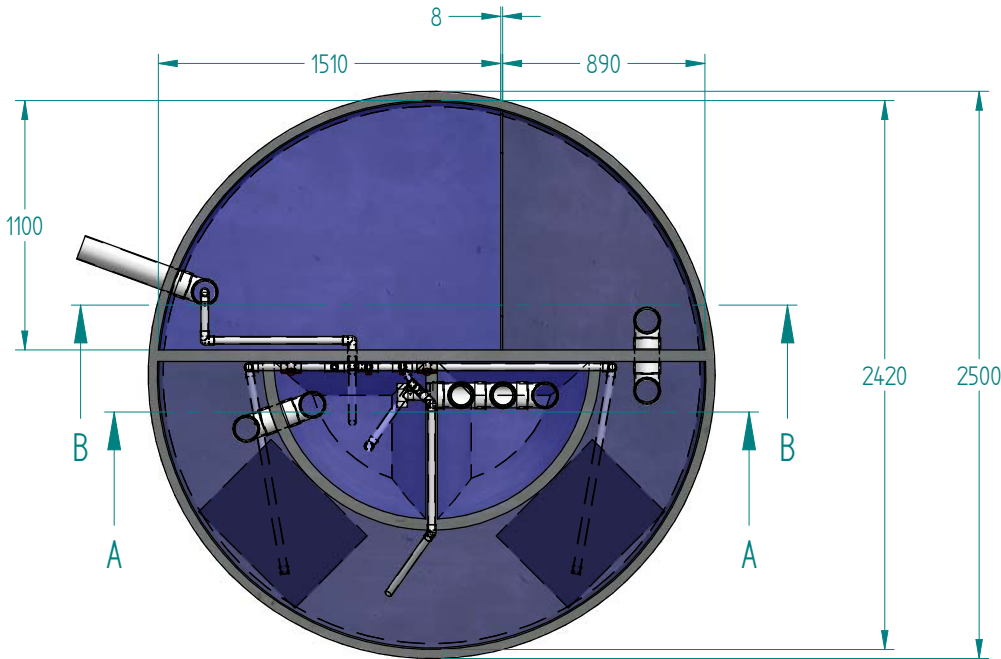
CHAMBER VOLUME: 2000 L

FREEBOARD VOLUME ABOVE  
INLET INVERT: 1976 L

CHAMBER VOLUME: 2231 L

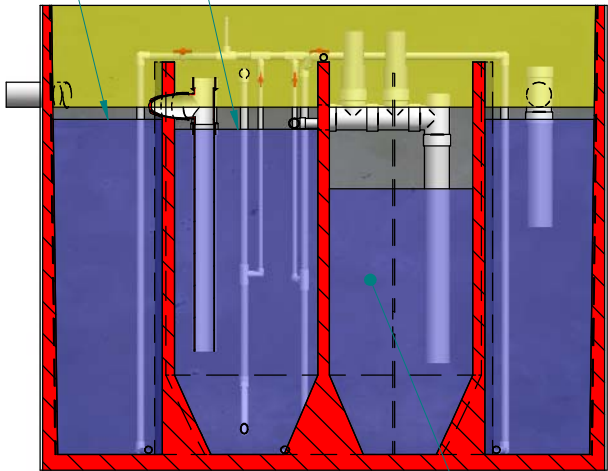
CHAMBER VOLUME: 465 L

CHAMBER VOLUME: 1000 L



CHAMBER VOLUME: 465 L

CHAMBER VOLUME: 2231 L



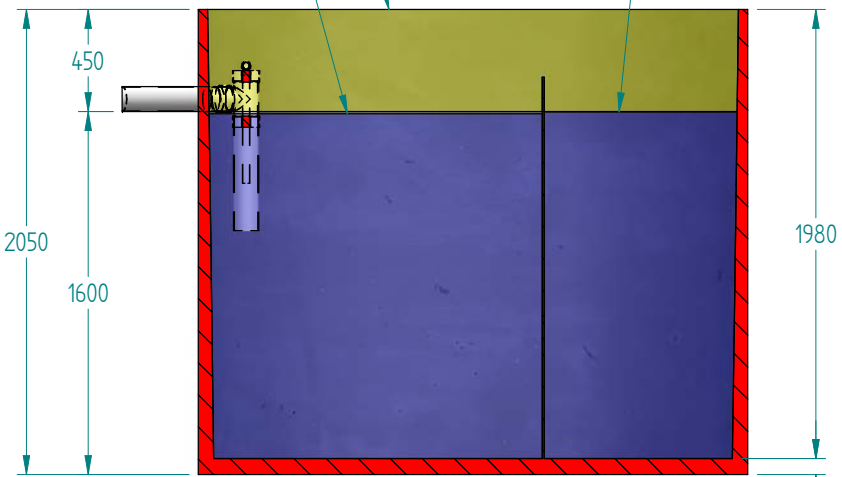
CHAMBER VOLUME: 370 L

SECTION A-A

CHAMBER VOLUME: 1976 L

CHAMBER VOLUME: 2000 L

CHAMBER VOLUME: 1000 L



SECTION B-B



PM	02/12/2019	LOGO CHANGE	5
PM	30/10/2019	ANNOTATION CHANGE	4
PM	14/10/2019	RELEASED	3
PM	01/05/2019	ISSUED FOR REVIEW	2
BY	DATE	REVISION DETAIL	REV

**Treatment Plant Approval**  
Approved by: Lindsay Walker  
Delegated Authority  
Department of Housing & Public Works



**ECO-SEPTIC**

**COPYRIGHT**

THIS DRAWING AND INFORMATION CONTAINED  
WITHIN REMAINS THE COPYRIGHT PROPERTY  
OF ECOSEPTIC AND CANNOT BE COPIED OR  
REPRODUCED WITHOUT WRITTEN PERMISSION



UNLESS OTHERWISE SPECIFIED  
ALL DIMENSIONS ARE IN MM

DATE PLOTTED 2/12/2019

SCALE: DO NOT SCALE

DRAWING LAST MODIFIED BY  
Peter McKay

PROJECT ECO PRO AWTS

TITLE TREATMENT TANK

COAT/TREAT. NONE

PART#

2500x2050-TT

VERSION

5

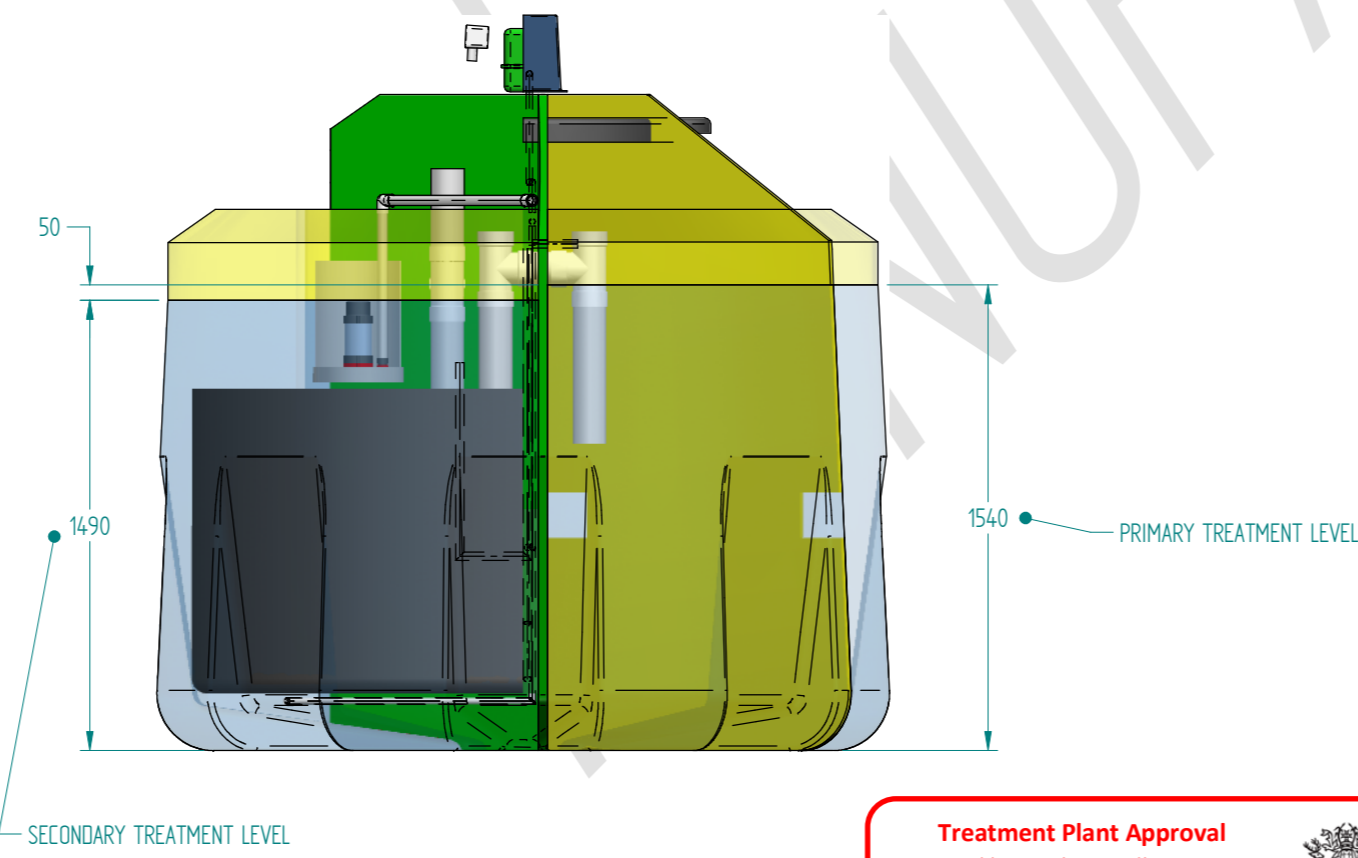
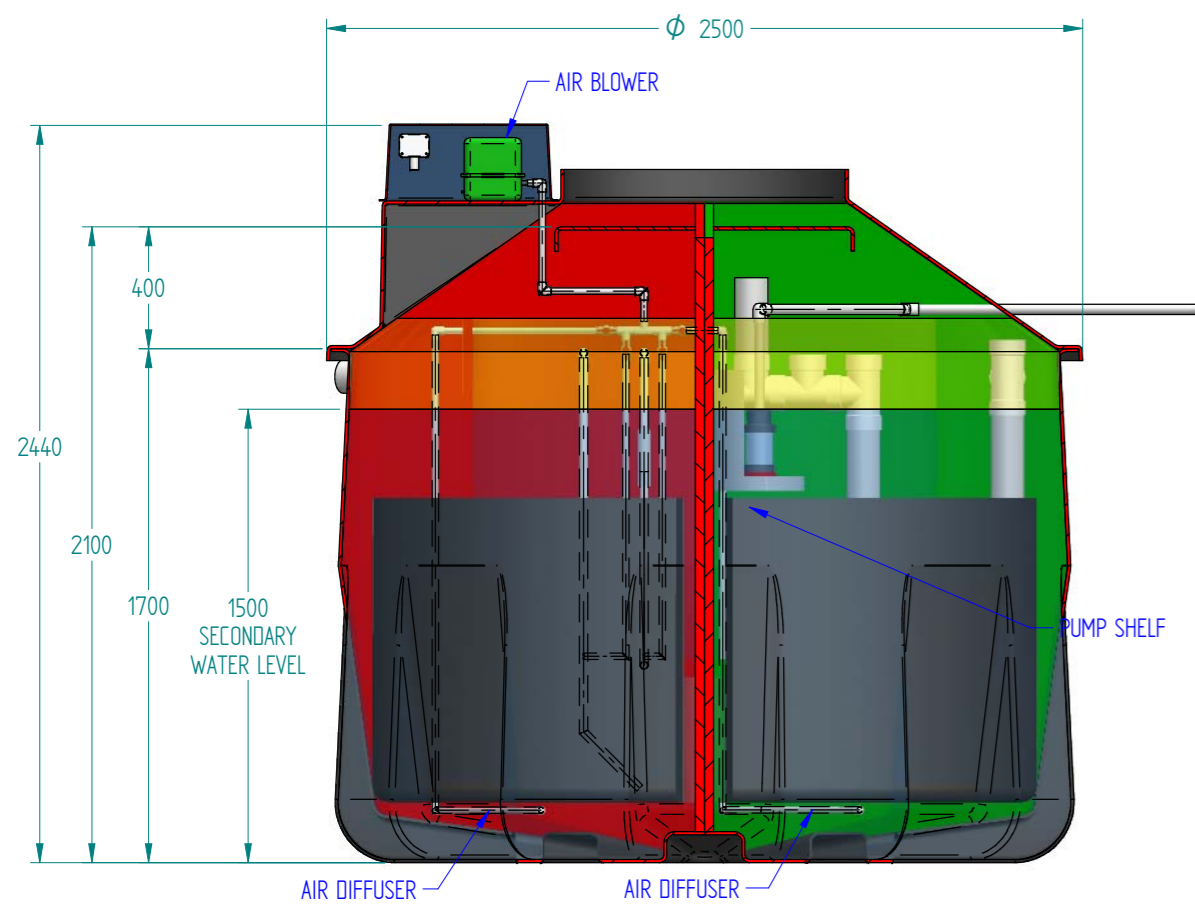
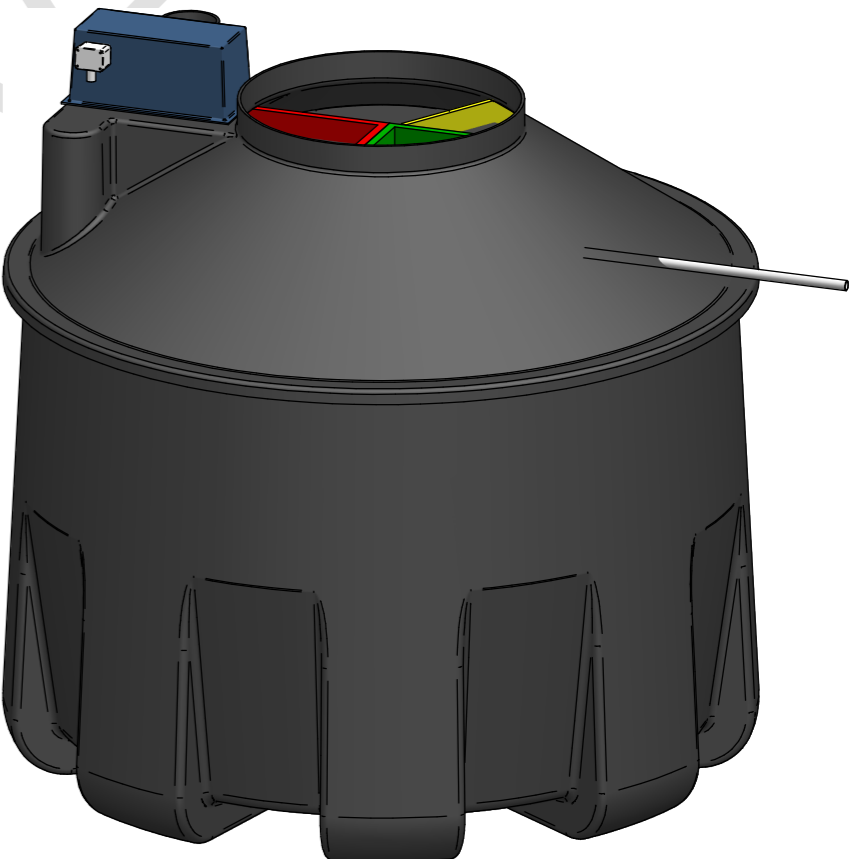
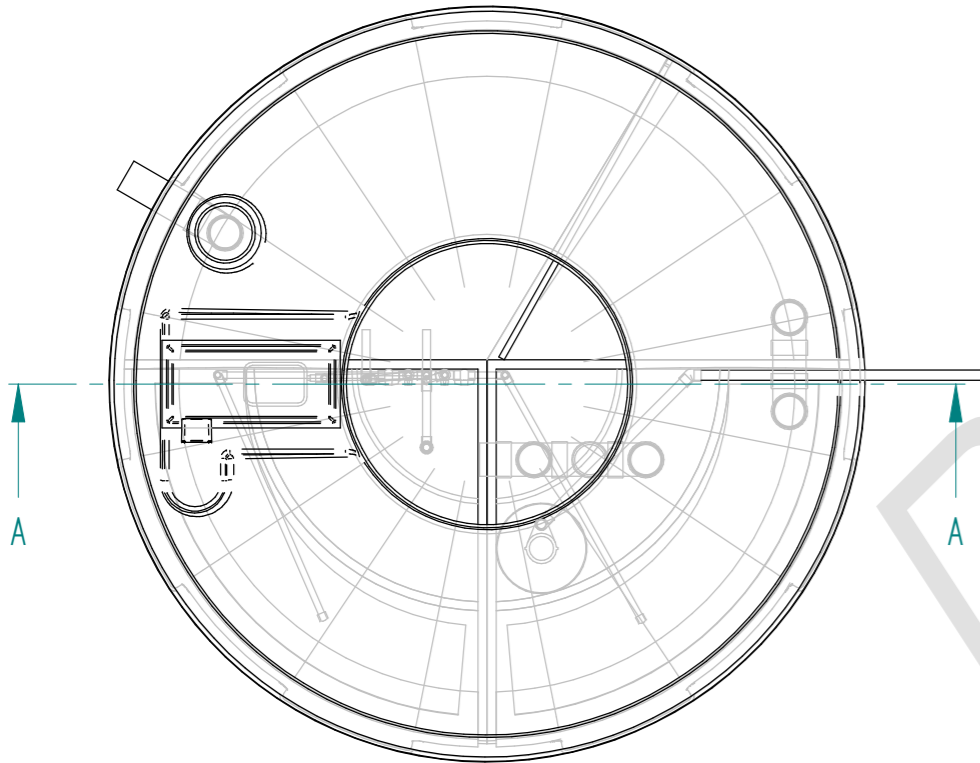
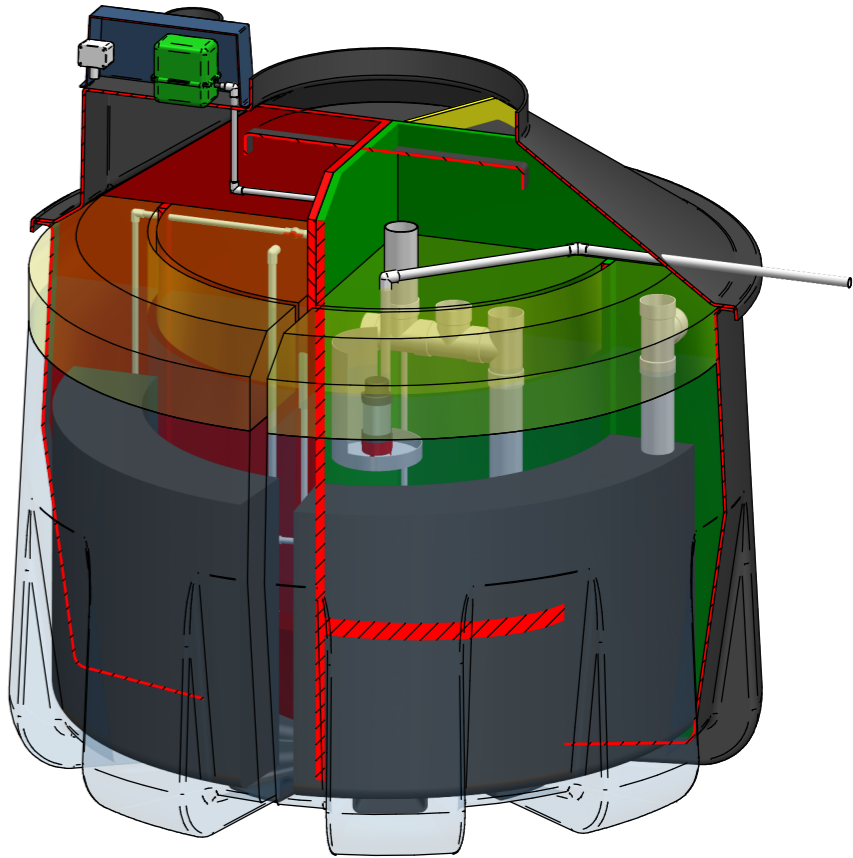
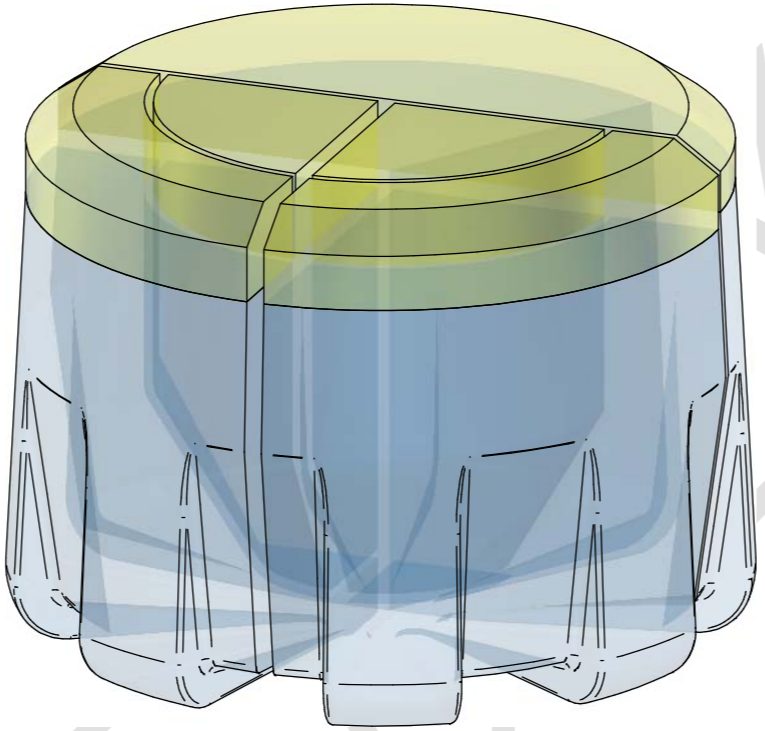
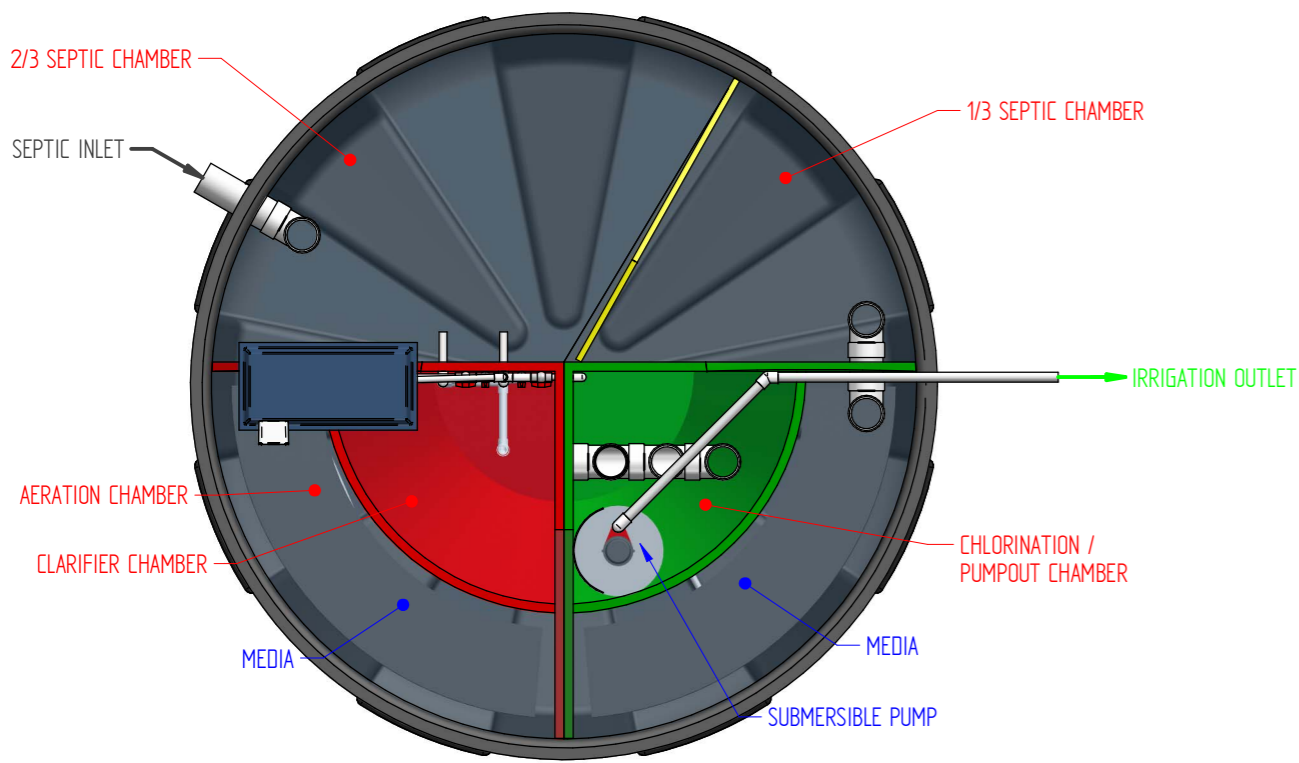
SHEET SIZE

A3

SHEET No.

1 OF 1

TITLE	VOLUME
VOLUME 1-SEPTIC 2/3rds	1996 L
VOLUME 2-SEPTIC 1/3rds	996 L
VOLUME 3-AERATION	2196 L
VOLUME 4-CLARIFICATION	462 L
VOLUME 5-IRRIGATION	462 L
VOLUME 6-FREEBOARD	1076 L



**Treatment Plant Approval**  
Approved by: Lindsay Walker  
Delegated Authority  
Department of Housing & Public Works



GENERAL TOLERANCES UNLESS OTHERWISE STATED:		
HOLES:	+0.3 -0.0	
FOLDING:	+0.5 -0.5	
LENGTH		TOLERANCE:
-6	6	0.1
6	30	0.2
30	120	0.3
120	315	0.5
315	1000	0.8
1000	>1000	1.0
ALL ANGLES:		0.5°



**COPYRIGHT**  
THIS DRAWING AND INFORMATION CONTAINED HEREIN REMAINS THE COPYRIGHT PROPERTY OF ECONOCYCLE AND CANNOT BE COPIED OR REPRODUCED WITHOUT WRITTEN PERMISSION.

SCALE  
DO NOT SCALE  
DRAWN BY  
Peter McKay  
MODELLED BY  
Peter McKay

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN MM  
DATE PLOTTED  
1/07/2020  
DRAWING LAST MODIFIED BY  
Peter McKay  
MODEL LAST MODIFIED BY  
Peter McKay

PROJECT	ENC10-1	SHEET SIZE A2	
TITLE	TANK ASSY		
PROCESS	ASSEMBLE	1124-4400 v6 1 OF 1	
COAT/TREAT:	NONE		
PART#		REVISION	

PM	17/09/2010	ISSUED FOR REVIEW	1B
BY	DATE	REVISION DETAIL	REV