### **TREATMENT PLANT APPROVAL 10/2023**

Plumbing and Drainage Regulation 2019, part 4.



#### **Approval**

- 1. The **Arris ABSORBS Lined Sand Filter** ("the system") described in the Specifications and Drawings in the attached Schedule and manufactured by **Arris Pty Ltd** (ACN 092 739 574) ("the manufacturer") has been assessed in accordance with the Queensland Plumbing and Wastewater Code (QPW Code).
- 2. Approval is granted for the system as an advanced secondary quality wastewater treatment system, subject to compliance by the manufacturer with the requirements of the *Plumbing and Drainage Regulation 2019*, part 4 and the conditions of approval detailed below.
- 3. This approval, the conditions of approval and the Schedule comprise the entire Chief Executive 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 8EP/1200L level and must continue to meet the following requirements:

#### TABLE 2.1 (AS1546.3:2017)

TABLE 2.1
EFFLUENT COMPLIANCE CRITERIA FOR AN STS WITH NO NUTRIENT REDUCTION FACILITIES

Damamatan	Secondary ef	fluent	Advanced secondary effluent		
Parameter	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	
E. coli *	≤ 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	10 NTU	

Where disinfection is required.

- † Where chlorine disinfection is used.
- 1 Minimum level, not 90% of samples.
- § Where UV light is used for disinfection (see Paragraph B3.1).
- 7. Each system must be serviced in accordance with the accreditation certificate issued by SAI Global on 23 November 2021, and details supplied in the owner's operation and maintenance manual.
- 8. Each system must be supplied with
  - (a) a copy of this Treatment Plant Approval document;
  - (b) details of the system;

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



- (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 Chie 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) BOD⁵ 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 24 March 2028 unless cancelled earlier in accordance with paragraph 10 above.

#### Lindsay Walker

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



**Director** 

Plumbing, Drainage and Special Projects Date approved:

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

Telephone +61 7 3008 2557 Facsimile +61 7 3237 1248 Website www.hpw.qld.gov.au

ABN 61 331 950 314



# **TREATMENT PLANT APPROVAL No. 10/2023**Plumbing and Drainage Regulation 2019, part 4

#### **SCHEDULE**

## **Attachment 1**

Specifications & Drawings for the

**Arris ABSORBS Lined Sand Filter** 





# SAI Global hereby grants:

# **Hydroscape**

ABN 15 150 605 282

37 Charles Sturt Avenue, Grange, SA 5022, Australia

#### StandardsMark Licence

Manufactured to:

AS 1546.3:2017 - On-site domestic wastewater treatment units - Secondary treatment systems

"the StandardsMark Licensee" the right to use the STANDARDSMARK as shown below only in respect of the goods described and detailed in the Schedule which are produced by the Licensee or on behalf of the Licensee\* and which comply with the appropriate Standard referred to above as from time to time amended. The Licence is granted subject to the rules governing the use of the STANDARDSMARK and the Terms and Conditions for certification and licence. The Licensee covenants to comply with all the Rules and Terms and Conditions.

Licence No: SMK41128

**Issued**: 23 November 2021 **Expires**: 28 October 2026

Originally Certified: 29 October 2021 Current Certification: 23 November 2021

Frank Camasta Global Head of Technical Services SAI Global Assurance





# SCHEDULE TO STANDARDSMARK LICENCE

# SAI Global hereby grants:

# **Hydroscape**

37 Charles Sturt Avenue, Grange, SA 5022, Australia

StandardsMark Licence

Manufactured to:

AS 1546.3:2017 - On-site domestic wastewater treatment units - Secondary treatment systems

Model identification of the goods on which the STANDARDSMARK may be used:

Brand Name & Model ID	Treatment Capacity (Litre / Day)	Treatment Type	Compliance Type	Disinfection Method	Tank Types and Capacities	Service Interval	Date Endorsed
Absorbs	1200 L/day	Sand Filter (note: tested with liner but not required for normal use)	Advanced Secondary	None	Certified septic tank with baffle and outlet filter (Test tank 3100L with additional 900L pump chamber.	6 months or as required by inspection. (septic desludge every 4 years)	23 Nov 2021

**End of Record** 

Licence No: SMK41128 Issued Date: 23 November 2021

This schedule supersedes all previously issued schedules

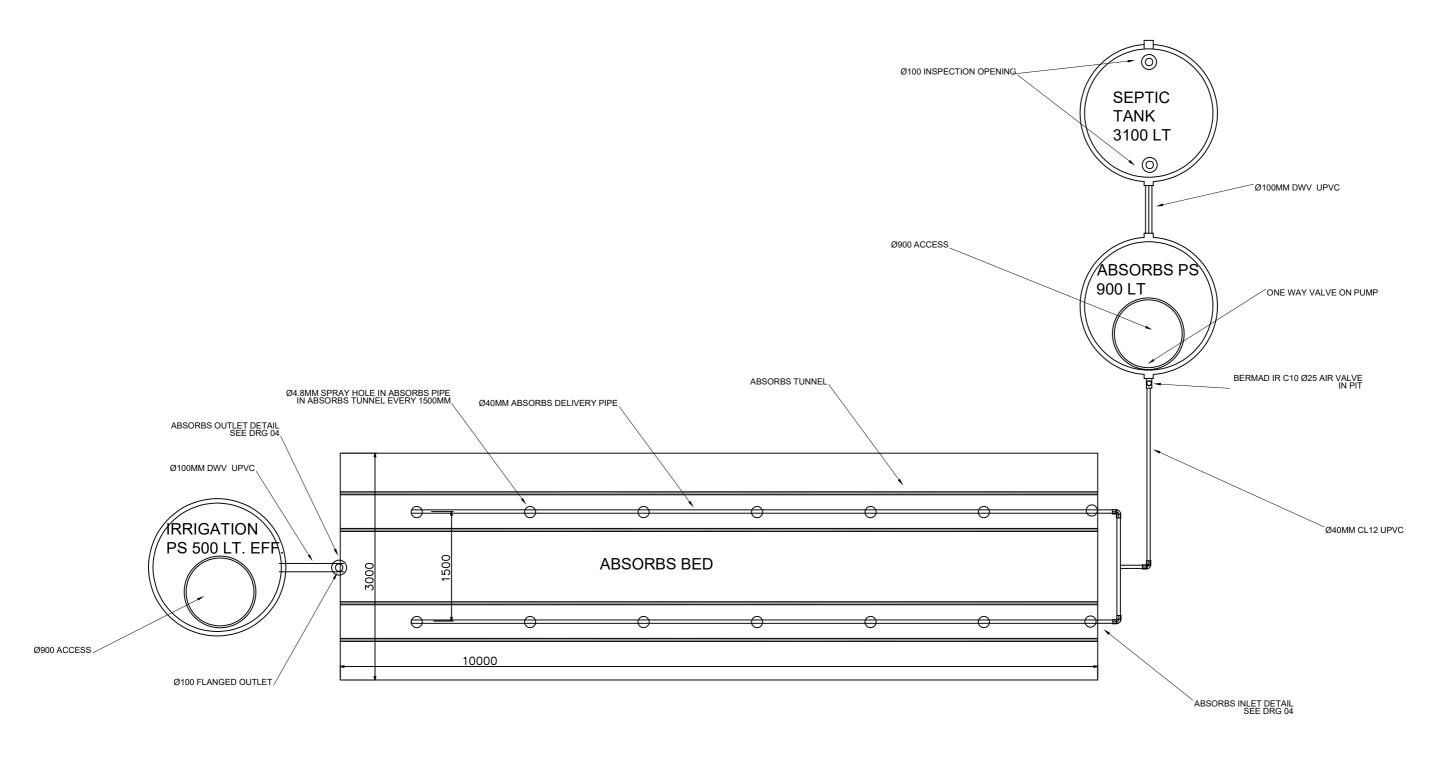


The STANDARDSMARK is a registered certification trademark of SAI Global Pty Limited (A.C.N. 050 644 642) and is issued under licence by SAI Global Certification Services Pty Limited (ACN 108 716 669) ("SAI Global") 680 George Street, Sydney NSW 2000, GPO Box 5420 Sydney NSW 2001. This certificate remains the property of SAI Global and must be returned to SAI Global upon its request. Refer to the Schedule for the list of product models.

<sup>\*</sup> For details of manufacture, refer to the licensee

## NOTES

- 1. ABSORBS PUMP TO BE A PEDROLLO DM30N 1.1KW 1 PHASE OR APPROVED EQUIVALENT.
- 2. ALL PIPEWORK TO BE SCJ LILAC UPVC.
- 3. IRRIGATION SYSTEM TO COMPLY TO AS1547 2012



					DESIGN BY	M SHORT	14/02/2022	~- ~	S		DRAWING TITLE	Project No.
					DRAWN BY	C FARRELL	15/2/2022	$\mathbb{I}(\mathbb{I}\mathbb{R}(\mathbb{I})\mathbb{M}_{-})$	-	Head Office – Queensland 44 Wentworth Terrace	LAYOUT	15022
					DRAFTING CHECK	MICHAEL SHORT	15/2/2022	O I ( O IVI ENG		Rockhampton QLD 4700		Drawing No.
3	19/12/2	22 CF	MS	SEPTIC SIZE	DESIGN CHECK	C FARRELL	14/2/2022		water treatment	Australia		
2	20/4/2	22 CF	MS	DIMENSION	FINAL APPROVAL			152 CECIL ST.	& technology		SEWAGE TREATMENT	01 A3
1	9/3/202	22 CF	MS	VALVES SHOWN	1 11012 711 710 7712			SOUTH MELBOURNE VIC 3205	HOR O	Scale 1:50 2.5 m		REV
REV	DATE	BY	APP.	AMENDMENT DETAILS				PHONE 03 9645 0025	VER 0	2.5 m Scale 1:50	Status: FOR APPROVAL	3

