

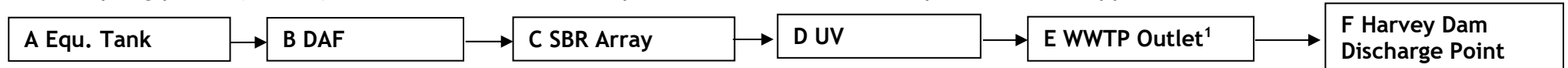


Harvey Fresh Recycled Water Scheme

Water Quality Sampling Program

Validation Process Onsite Wastewater Treatment Plant

The sampling points (in bold) are based on information provided on the treatment process in the application



	Potential End Uses	Parameter	Product Water Compliance Value	Minimum of six consecutive samples over a six weeks period ⁴					
				A	B	C	D	E	F
High	End uses with a high level of human contact, including: <ul style="list-style-type: none"> - Multi-unit dwellings, internal use and external surface irrigation access and application - Agricultural irrigation – unprocessed foods (e.g. salad crops) - Urban irrigation with unrestricted access and application - Communal use – flushing toilets and designated cold tap washing machine 	E.coli	< 1 MPN or cfu/100 mL	Weekly	Not required	Weekly ³	Not required	Weekly	Not required
		BOD	< 20 mg/L	Not required	Not required	Not required	Not required	Weekly	Not required
		SS	< 20 mg/L	Not required	Not required	Not required	Not required	Weekly	Not required
		pH	6.5 -8.5	Weekly	Not required	Not required	Not required	Continuous online	Not required
		Disinfection	Cl: 0.2-2.0 mg/L Free chlorine residual	NA	NA	NA	Not required	Continuous online	Continuous online
		Turbidity	<2 NTU (95%ile) <5 NTU	Weekly	Not required	Not required	Not required	Continuous online	Not required
		UV ²	Intensity Drop <25% at 254 nm UVT > 75% UV dose 40-70mJ/cm ²	NA	NA	NA	Continuous online	N/A	NA
		Coliphages	<1 pfu/100 mL	Fortnightly	Not required	Fortnightly	Not required	Weekly	Not required
Clostridia	< 1 cfu/100 mL	Fortnightly	Not required	Fortnightly	Not required	Weekly	Not required		

Continual Verification Monitoring

Exposure Risk Level	Potential End Uses	Continual Monitoring Frequency				
		Parameter	Effluent Compliance Value	D	E*	F
High	End uses with a high level of human contact, including: - Multi-unit dwellings, internal use and external surface irrigation access and application - Agricultural irrigation – unprocessed foods (e.g. salad crops) - Urban irrigation with unrestricted access and application - Communal use – flushing toilets and designated cold tap washing machines	E.coli	< 1 MPN or cfu/100 mL	Not required	Monthly	Not required
		BOD	< 20 mg/L	Not required	Not required	Not required
		SS	< 20 mg/L	Not required	Not required	Not required
		pH	6.5 -8.5	Not required	Continuous online	Not required
		Disinfection	Cl: 0.2-2.0 mg/L Free chlorine residual	Not required	Continuous online	Continuous online
		Turbidity	<2 NTU (95%ile) <5 NTU	Not required	Continuous online	Not required
		UV**	Intensity Drop <25% at 254 nm UVT > 75% UV dose 40-70mJ/cm ²	Continuous online	N/A	N/A
		Coliphages	<1 pfu/100 mL	Not required	Monthly	Not required
		Clostridia	< 1 cfu/100 mL	Not required	Monthly	Not required

1 - Additional monitoring of WWTP outlet may be required by DWER

2 - UV validation and monitoring as per agreed method

3 - Microbiological monitoring of SBR Array required due to evidence of being a source of faecal contamination

4 - More frequent monitoring during the validation process can be agreed with DoH provided the required water quality objectives are achieved on 6 consecutive sampling events

Tables derived from Table 7 and Table 8 Guidelines for the Non-potable Uses of Recycled Water in Western Australia 2011

More Information

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