Stormwater Quality Improvement Device Evaluation Protocol (SQIDEP)

VERIFICATION CERTIFICATE

Applicant Information

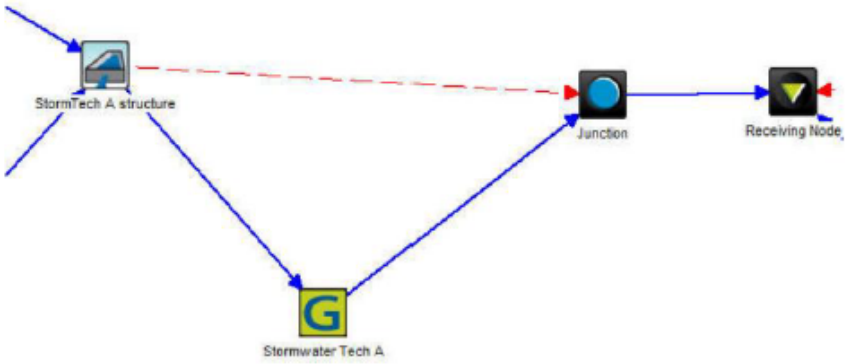
Applicant Name	**Example Pty Ltd**
Applicant Address	**1 Puddles Way, QLD 4000**
Phone Number	**+61 1234 5678**
Email	**Example@example.com.au**
Website	**www.example.com.au**

Verified Technology	**Stormwater Technology A**
Issue Date	**DD Mmmm YYY**
Reviewed Documents	• Quality Assurance Project Plan, Stormwater Technology A, Consultant A, 2025 • Quality Assurance Project Plan Approval, Stormwater Technology A, Stormwater Australia, 2025 • Detailed Performance Report, Stormwater Technology A, Consultant A, 2028 • Laboratory Report, Stormwater Technology A – University X, 2021 • Statutory Declaration, Consultant A, 2025 • Calibrated MUSIC model file, Consultant A, 2025

Technology Information

Applicant's Verified Performance Claims	Total Suspended Solids (TSS)	70 %
	Total Phosphorus (TP)	30 %
	Total Nitrogen (TN)	30 %
	Total Petroleum Hydrocarbons	Nil %
	Gross Pollutants	Nil %

Maintenance performed during monitoring	• Stormwater Technology A was maintained once per annum over the X year monitoring period; • This maintenance included complete replacement of the technology cartridge; • No other maintenance was performed during the monitored period; • This was verified with a Statutory Declaration from the maintenance company.

Verified method to model in MUSIC	• The monitoring program included information on the performance of the technology as well as the structure it was housed within, to account for scour and settling;
	• The submitted MUSIC model and DPR provides design guidelines for maximum and minimum structures, and calibrated k values for the structure;
	• The submitted, calibrated MUSIC model provides a method of modelling the technology with 3 nodes and primary and secondary links as per the image below;
	 
	• The input criteria for each node are;
	  ○ Structure node
	  ▪ high flow bypass = X m^3/s
	  ▪ Area = Y m^2
	  ▪ Depth = Z m
	  ▪ Orifice diameter = W mm
	  ▪ Weir length = V m
	  ▪ Footprint to be scaled according to 100 m^3 per 10 units of Stormwater Technology A
	  ○ Generic node
	  ▪ high flow bypass = X m^3/s
	  ▪ TSS reduction = 70 %
	  ▪ TP reduction = 30 %
	  ▪ TN reduction = 30 %

Conditions	The verification of these Claims is conditional upon; • the application of Stormwater Technology A in Residential and Commercial catchments; • The number of Stormwater Technology A implemented reflects 3,000 units per hectare of catchment area; • The footprint of the housing structure must be between 100 m^3 ± 10% per 10 units of Stormwater Technology A; • Maintenance must be scheduled and completed annually as per that described in the DPR; • The 3 month design flowrate per unit of Stormwater Technology A is 250 L/s; • An external bypass for flows greater than the design TFR is implemented, and modelled appropriately in MUSIC; • MUSIC models being prepared in accordance with the detail above.