

MUSIC-*link* Report

Project Details		Company Details	
Project:	E293145 - No.104-108 Lethbridge Street, Penrith	Company:	Donovan Associates
Report Export Date:	13/04/2017	Contact:	Scott Sharma
Catchment Name:	E293145 - No.104-108 Lethbridge Street	Address:	15 Parkes Street, Parramatta
Catchment Area:	0.184ha	Phone:	02 9806 3000
Impervious Area*:	60.32%	Email:	scott@donovanassociates.com.au
Rainfall Station:	67113 PENRITH		
Modelling Time-step:	6 Minutes		
Modelling Period:	1/01/1999 - 31/12/2008 11:54:00 PM		
Mean Annual Rainfall:	691mm		
Evapotranspiration:	1158mm		
MUSIC Version:	6.1.0		
MUSIC-link data Version:	6.0		
Study Area:	Penrith		
Scenario:	Penrith Development		

* takes into account area from all source nodes that link to the chosen reporting node, excluding Import Data Nodes

Treatment Train Effectiveness		Treatment Nodes		Source Nodes	
Node: Receiving Node	Reduction	Node Type	Number	Node Type	Number
Flow	15.7%	Rain Water Tank Node	1	Urban Source Node	8
TSS	89.9%	Bio Retention Node	1		
TP	70.2%	Swale Node	2		
TN	59.1%	GPT Node	1		
GP	100%				

Comments

failing parameters due to Stormwater 360 approved node parameters

Passing Parameters

Node Type	Node Name	Parameter	Min	Max	Actual
Bio	15m◆ Bioretention	Hi-flow bypass rate (cum/sec)	None	99	99
Bio	15m◆ Bioretention	PET Scaling Factor	2.1	2.1	2.1
GPT	1 x Enviropod 200 (BCC 2015)	Hi-flow bypass rate (cum/sec)	None	99	0.02
Receiving	Receiving Node	% Load Reduction	None	None	15.7
Receiving	Receiving Node	GP % Load Reduction	90	None	100
Receiving	Receiving Node	TN % Load Reduction	45	None	59.1
Receiving	Receiving Node	TP % Load Reduction	60	None	70.2
Receiving	Receiving Node	TSS % Load Reduction	85	None	89.9
Swale	Eastern BDY Swale	Bed slope	0.01	0.05	0.015
Swale	Rear BDY Swale	Bed slope	0.01	0.05	0.01
Urban	Driveway Area- 22m◆ (100% Imp.)	Area Impervious (ha)	None	None	0.002
Urban	Driveway Area- 22m◆ (100% Imp.)	Area Pervious (ha)	None	None	0
Urban	Driveway Area- 22m◆ (100% Imp.)	Total Area (ha)	None	None	0.002
Urban	Landscaped area- 208m◆ (100% Perv.)	Area Impervious (ha)	None	None	0
Urban	Landscaped area- 208m◆ (100% Perv.)	Area Pervious (ha)	None	None	0.021
Urban	Landscaped area- 208m◆ (100% Perv.)	Total Area (ha)	None	None	0.021
Urban	Landscaped area Bypass- 140m◆ (100% Perv.)	Area Impervious (ha)	None	None	0
Urban	Landscaped area Bypass- 140m◆ (100% Perv.)	Area Pervious (ha)	None	None	0.014
Urban	Landscaped area Bypass- 140m◆ (100% Perv.)	Total Area (ha)	None	None	0.014
Urban	Landscaping - 15m◆ (100% Perv.)	Area Impervious (ha)	None	None	0
Urban	Landscaping - 15m◆ (100% Perv.)	Area Pervious (ha)	None	None	0.001
Urban	Landscaping - 15m◆ (100% Perv.)	Total Area (ha)	None	None	0.001
Urban	Paved Area Bypass- 40m◆ (100% Imp.)	Area Impervious (ha)	None	None	0.004
Urban	Paved Area Bypass- 40m◆ (100% Imp.)	Area Pervious (ha)	None	None	0
Urban	Paved Area Bypass- 40m◆ (100% Imp.)	Total Area (ha)	None	None	0.004
Urban	Paved Area/Balcony - 140m◆ (100% Imp.)	Area Impervious (ha)	None	None	0.014
Urban	Paved Area/Balcony - 140m◆ (100% Imp.)	Area Pervious (ha)	None	None	0
Urban	Paved Area/Balcony - 140m◆ (100% Imp.)	Total Area (ha)	None	None	0.014
Urban	Roof- 910m◆ (100% Imp.)	Area Impervious (ha)	None	None	0.091
Urban	Roof- 910m◆ (100% Imp.)	Area Pervious (ha)	None	None	0
Urban	Roof- 910m◆ (100% Imp.)	Total Area (ha)	None	None	0.091
Urban	Swaled Landscaped area- 367m◆ (100% Perv.)	Area Impervious (ha)	None	None	0
Urban	Swaled Landscaped area- 367m◆ (100% Perv.)	Area Pervious (ha)	None	None	0.037
Urban	Swaled Landscaped area- 367m◆ (100% Perv.)	Total Area (ha)	None	None	0.037

Only certain parameters are reported when they pass validation

NOTE: A successful self-validation check of your model does not constitute an approved model by Penrith City Council
MUSIC-*link* now in MUSIC by eWater – leading software for modelling stormwater solutions

Failing Parameters

Node Type	Node Name	Parameter	Min	Max	Actual
GPT	1 x Enviropod 200 (BCC 2015)	TN % Load Reduction	0	0	20.64
GPT	1 x Enviropod 200 (BCC 2015)	TP % Load Reduction	0	0	29.45
GPT	1 x Enviropod 200 (BCC 2015)	TSS % Load Reduction	0	0	52.5251

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