



# Appendix G

## MUSIC Modelling Data

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## G.1 Constructed Wetland Properties

### *Inlet Properties:*

Low Flow Bypass:	0 m <sup>3</sup> /s
High Flow Bypass:	100 m <sup>3</sup> /s
Inlet Pond Volume:	0 m <sup>3</sup>

### *Storage Properties:*

Surface Area:	1,020 m <sup>2</sup>
Extended Detention Depth:	0.30 m
Permanent Pool Volume:	200.0 m <sup>3</sup>
Exfiltration Rate:	0.0 mm/hour
Evaporative Loss as % of PET:	125.00 (MUSIC default rate to represent the additional losses likely to occur through transpiration by the wetland vegetation)

### *Outlet Properties:*

Equivalent Pipe Diameter:	37 mm (this may not be the diameter of the pipe itself, but the equivalent diameter of its orifices or outlet structure. The sizing has been selected to provide a detention period of approximately 48 hours in the wetland)
Overflow weir width:	15.0 m
Notional Detention Time:	48.7 hours

## G.2 Swale Properties

### *Inlet Properties:*

Low Flow Bypass:	0 m <sup>3</sup> /s
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### *Storage Properties:*

Length (m):	varies
Bed Slope:	1.0 %
Base Width:	0.3 m
Top Width:	3.0 m
Depth:	0.2 m
Vegetation Height (m):	0.05 m
Seepage Loss:	0.0 mm/hour

## G.3 Rainwater Tanks

### *Inlet Properties:*

Low Flow Bypass:	0 m <sup>3</sup> /s
High Flow Bypass:	100 m <sup>3</sup> /s

### *Storage Properties:*

Volume Below Overflow Pipe:	3.0 kL per cabin
Depth Above Overflow:	0.01 m
Surface Area:	0.3 m <sup>2</sup>

### *Outlet Properties:*

Overflow Pipe Diameter:	100 mm
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*Reuse Properties:*

Daily Demand

46 L/person/day with an average occupancy of 1 person for each 1 bedroom cabin and 2 people per 2-bedroom cabin

Monthly distribution of annual demand is shown in the graph below.

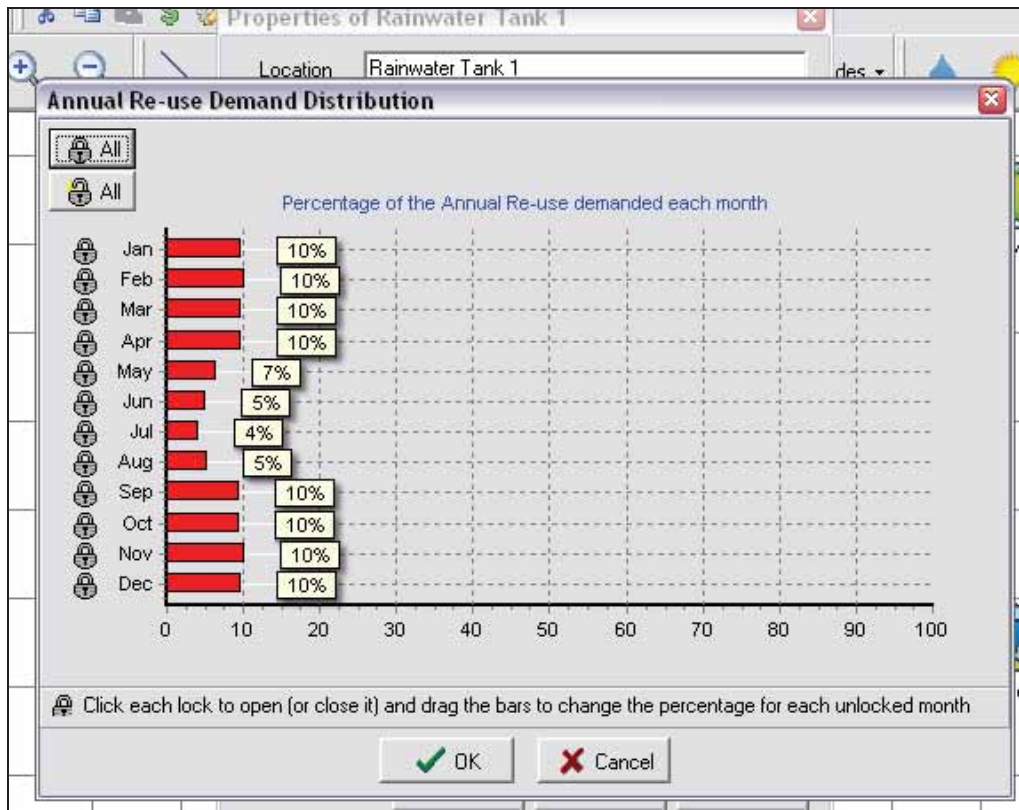


Plate G1: MUSIC 'Screen shot' of monthly distribution of annual demand for rainwater tanks

## G.4 Buffer

*Treatment Properties:*

Percentage of upstream area buffered: 100 %

Buffer Area (% of upstream impervious area): 50%

Exfiltration Rate: 0.0 mm/hour