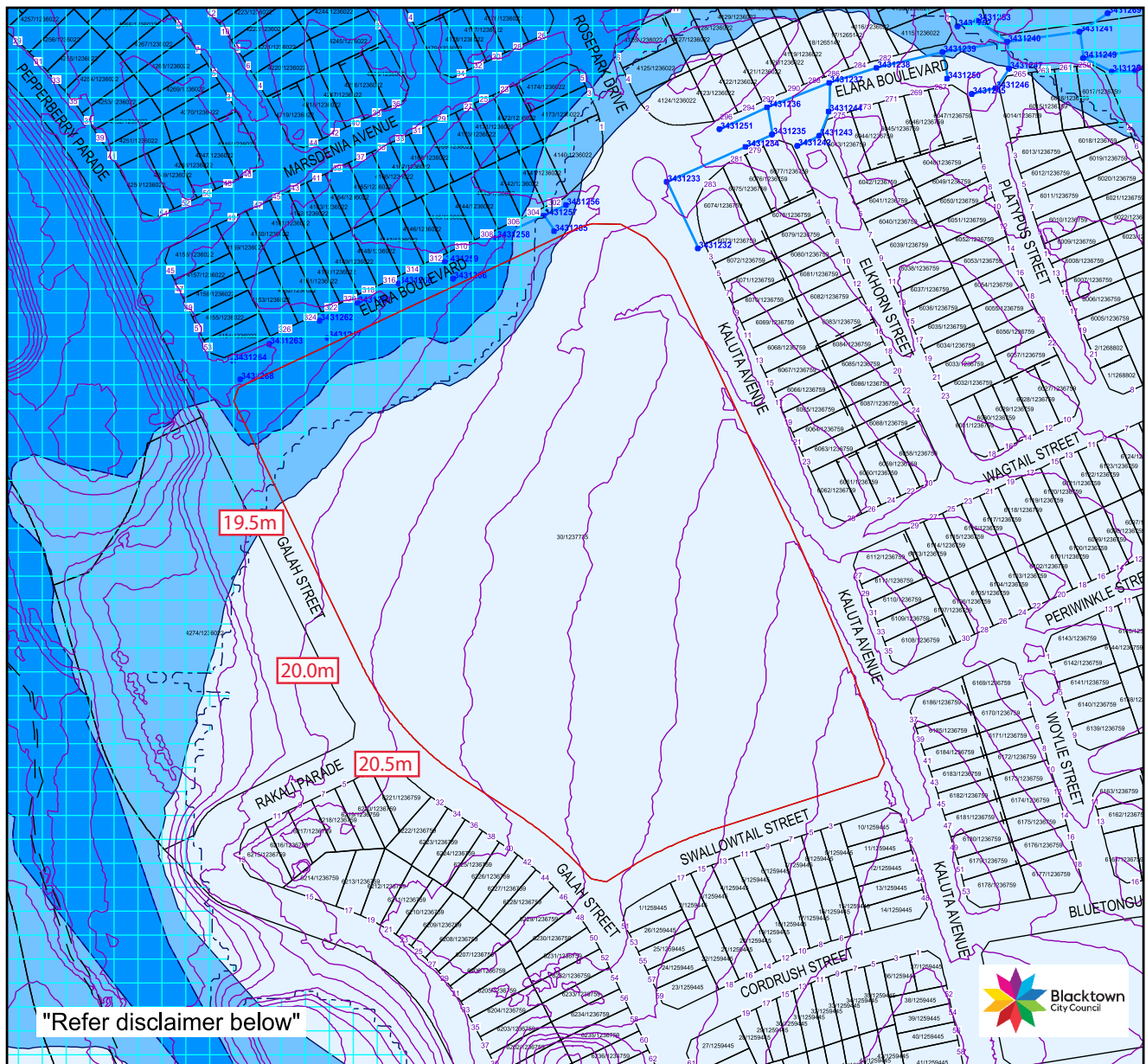




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Plot Date: 26/05/2022

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BLACKTOWN CITY COUNCIL Flood Risk Map

This is Council's current flood map. However Council is currently reviewing the flood modelling in this area. Finalisation of this modelling work may result in a variation to the quoted flood levels and amendments to Council's current flood mapping extents.

DISCLAIMER: The flood risk precincts shown are based on information available to Council and should be regarded as an indicative guide only. A more accurate indication of the extent of the respective flood risk precincts can be determined by relating surveyed ground levels at Australian Height Datum (AHD) to the hydraulic and/or flood level criteria determining flood risk precinct boundaries. This information may be obtained by a written request to Council accompanied by a ground level survey to AHD prepared by a Registered Surveyor. Should flood risk precinct extents be required for the purpose of a financial transaction of any nature, then the parties to that transaction should apply to Council for formal certification and/or seek independent legal or professional advice.



Scale 1:3500

Parcel Extent, Torrens Title Extent	DTM Contour, 13.5m Contour	DTM Contour, 19.5m Contour
Parcel LPI Extent, Torrens Title Extent	DTM Contour, 14.0m Contour	DTM Contour, 20.0m Contour
Easement Segment, Extent	DTM Contour, 14.5m Contour	DTM Contour, 20.5m Contour
Local Government Area, Gazetted Boundary	DTM Contour, 15.0m Contour	DTM Contour, 21.0m Contour
Waterway, Extent	DTM Contour, 15.5m Contour	DTM Contour, 21.5m Contour
Drainage Conduit, Route	DTM Contour, 16.0m Contour	DTM Contour, 22.0m Contour
Drainage Node, Location	DTM Contour, 16.5m Contour	DTM Contour, 22.5m Contour
EP-FLD Flooding Planning, Flood Prone SEPP Extent	DTM Contour, 17.0m Contour	DTM Contour, 23.0m Contour
Flood Extents, High Flood Risk Precinct	DTM Contour, 17.5m Contour	DTM Contour, 23.5m Contour
Flood Extents, Medium Flood Risk Precinct	DTM Contour, 18.0m Contour	DTM Contour, 24.0m Contour
Flood Extents, Low Flood Risk Precinct	DTM Contour, 18.5m Contour	DTM Contour, 24.5m Contour
DTM Contour, 13.0m Contour	DTM Contour, 19.0m Contour	DTM Contour, 25.0m Contour

Appendix D

Warragamba Dam Raising EIS – Chapter 15: Flooding and Hydrology, 2021 Excerpt

15.14.2.4 Downstream: 1 in 100 chance in a year

Figure 15-72. Downstream flood extent: 1 in 100 chance in a year event

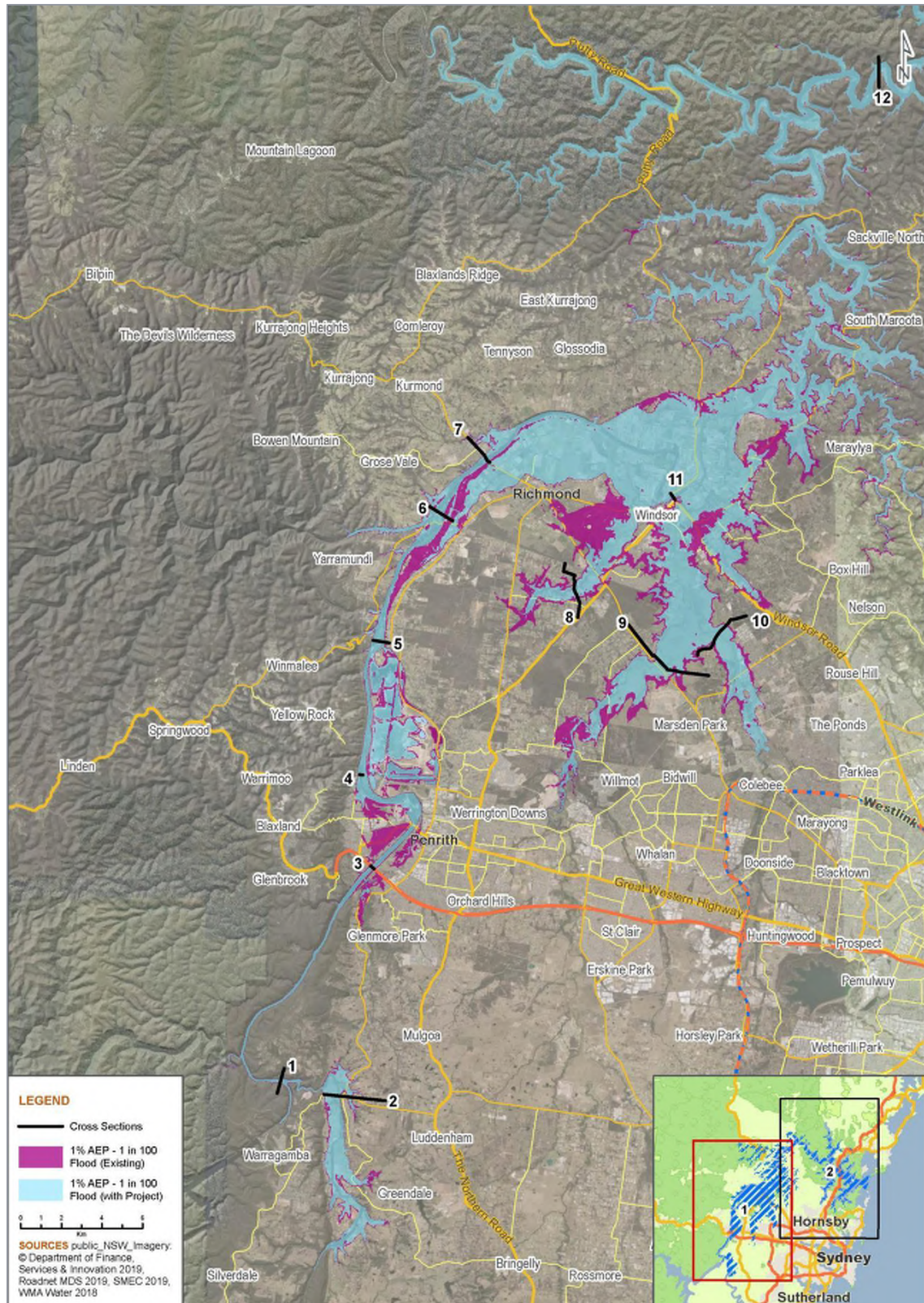
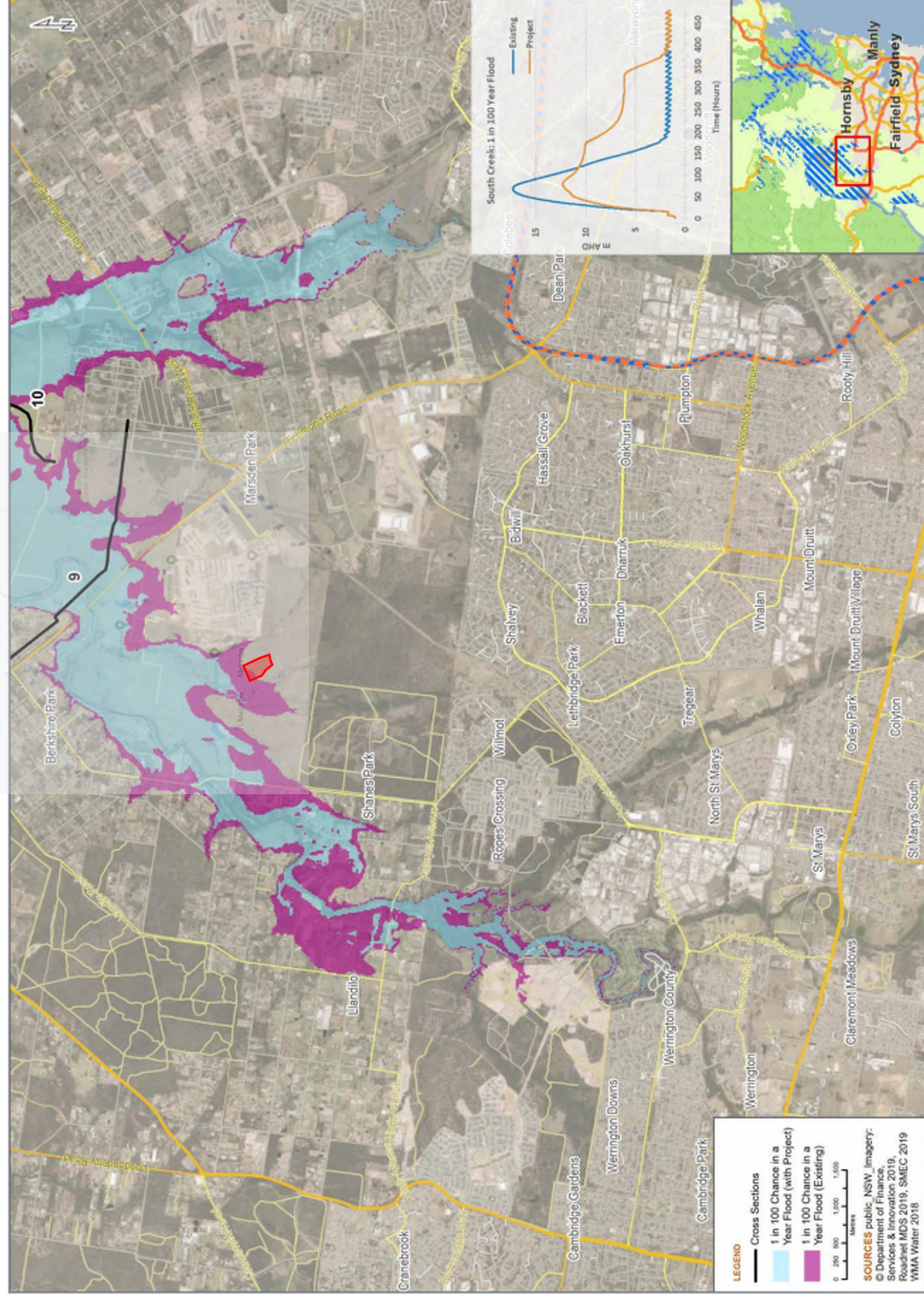
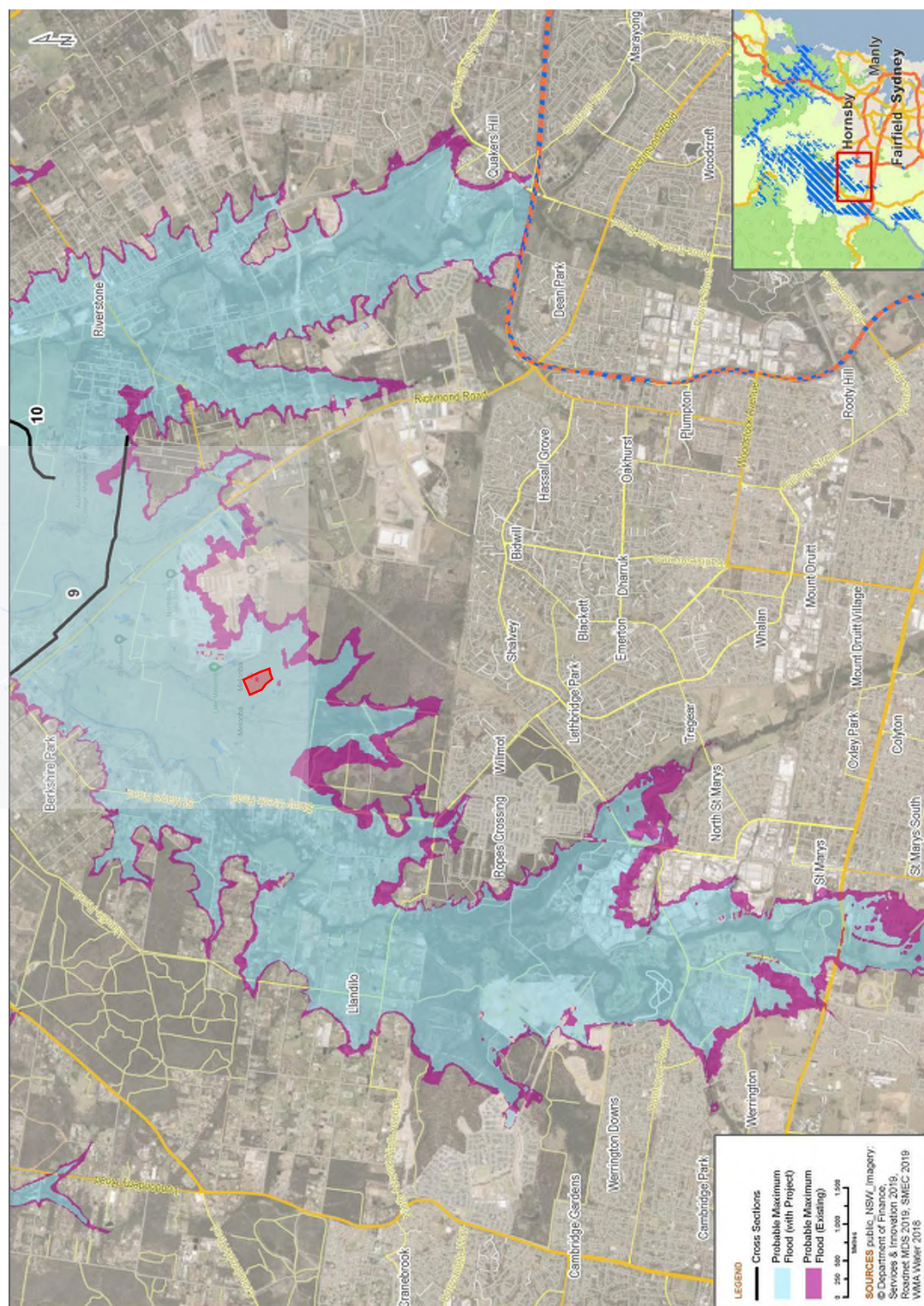


Figure 15-76. South Creek: 1 in 100 chance in a year event





Appendix E

Catchment Plans

Appendix F

MUSIC-Link Report

MUSIC-link Report

Project Details		Company Details	
Project:	Marsden Park High School & Melonba Primary School Development	Company:	Taylor Thompson Whitting
Report Export Date:	18/01/2023	Contact:	Mitchell Leighton
Catchment Name:	BCC Test Run	Address:	Level 6, 73 Miller Street, North Sydney
Catchment Area:	5.705999999999999ha	Phone:	0459927925
Impervious Area*:	126.0%	Email:	Mitchell.Leighton@ttw.com.au
Rainfall Station:	67035 LIVERPOOL(WHITLAM)		
Modelling Time-step:	6 Minutes		
Modelling Period:	1/01/1967 - 31/12/1976 11:54:00 PM		
Mean Annual Rainfall:	857mm		
Evapotranspiration:	1261mm		
MUSIC Version:	6.3.0		
MUSIC-link data Version:	6.34		
Study Area:	Blacktown		
Scenario:	Blacktown 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: Site Discharge	Reduction	Node Type	Number	Node Type	Number
Flow	9.85%	Rain Water Tank Node	1	Urban Source Node	202
TSS	94.6%	Sedimentation Basin Node	1		
TP	73.9%	Detention Basin Node	1		
TN	45%	Media Filtration Node	1		
GP	99.8%	Swale Node	86		
		Generic Node	2		
		GPT Node	81		

Comments

Irrigation reuse modelled using BCC 0.4 kL/m²/yr for all landscaping bar natural turf playing field where a rate of 0.27 kL/m²/year has been adopted. If water is available for reuse, irrigation demand will meet the 0.4 kL/m²/year rate, otherwise only 0.27 kL/m²/year will be utilised if accessing top up water supply. This approach has been performed in consultation with the irrigation specialist.

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

[illegible]

Only certain parameters are reported when they pass validation

Only certain parameters are reported when they pass validation

4 of 22

[illegible]

Only certain parameters are reported when they pass validation

Node Type	Node Name	Parameter	Min	Max	Actual
Swale	Swale	Bed slope	0.005	0.01	0.01
Swale	Swale	Bed slope	0.005	0.01	0.01
Swale	Swale	Bed slope	0.005	0.01	0.01
Swale	Swale	Bed slope	0.005	0.01	0.01
Swale	Swale	Bed slope	0.005	0.01	0.01
Swale	Swale	Bed slope	0.005	0.01	0.01
Swale	Swale	Bed slope	0.005	0.01	0.01
Swale	Swale	Bed slope	0.005	0.01	0.01
Swale	Swale	Bed slope	0.005	0.01	0.01
Swale	Swale	Bed slope	0.005	0.01	0.01
Swale	Swale	Bed slope	0.005	0.01	0.01
Swale	Swale	Bed slope	0.005	0.01	0.01
Swale	Swale	Bed slope	0.005	0.01	0.01
Swale	Swale	Bed slope	0.005	0.01	0.01
Swale	Swale	Bed slope	0.005	0.01	0.01
Swale	Swale	Bed slope	0.005	0.01	0.01
Urban	A-1_A (98 m2)	Area Impervious (ha)	None	None	0.01
Urban	A-1_A (98 m2)	Area Pervious (ha)	None	None	0
Urban	A-1_A (98 m2)	Total Area (ha)	None	None	0.01
Urban	A-1_B (74 m2)	Area Impervious (ha)	None	None	0.007
Urban	A-1_B (74 m2)	Area Pervious (ha)	None	None	0
Urban	A-1_B (74 m2)	Total Area (ha)	None	None	0.007
Urban	A-1_C (105m2)	Area Impervious (ha)	None	None	0.011
Urban	A-1_C (105m2)	Area Pervious (ha)	None	None	0
Urban	A-1_C (105m2)	Total Area (ha)	None	None	0.011
Urban	A-10 (810m2)	Area Impervious (ha)	None	None	0.081
Urban	A-10 (810m2)	Area Pervious (ha)	None	None	0
Urban	A-10 (810m2)	Total Area (ha)	None	None	0.081
Urban	A-11 (385m2)	Area Impervious (ha)	None	None	0.039
Urban	A-11 (385m2)	Area Pervious (ha)	None	None	0
Urban	A-11 (385m2)	Total Area (ha)	None	None	0.039
Urban	A-12 (225m2)	Area Impervious (ha)	None	None	0.023
Urban	A-12 (225m2)	Area Pervious (ha)	None	None	0
Urban	A-12 (225m2)	Total Area (ha)	None	None	0.023
Urban	A-13 (693m2)	Area Impervious (ha)	None	None	0.069
Urban	A-13 (693m2)	Area Pervious (ha)	None	None	0
Urban	A-13 (693m2)	Total Area (ha)	None	None	0.069
Urban	A-14_A_Land (27 m2)	Area Impervious (ha)	None	None	0.003
Urban	A-14_A_Land (27 m2)	Area Pervious (ha)	None	None	0
Urban	A-14_A_Land (27 m2)	Total Area (ha)	None	None	0.003

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 Blacktown City Council
MUSIC-*link* now in MUSIC by eWater – leading software for modelling stormwater solutions

Node Type	Node Name	Parameter	Min	Max	Actual
Urban	A-14_A_Road (124 m2)	Area Impervious (ha)	None	None	0.012
Urban	A-14_A_Road (124 m2)	Area Pervious (ha)	None	None	0
Urban	A-14_A_Road (124 m2)	Total Area (ha)	None	None	0.012
Urban	A-14_B_Land (22m2)	Area Impervious (ha)	None	None	0.002
Urban	A-14_B_Land (22m2)	Area Pervious (ha)	None	None	0
Urban	A-14_B_Land (22m2)	Total Area (ha)	None	None	0.002
Urban	A-14_B_Road (143 m2)	Area Impervious (ha)	None	None	0.014
Urban	A-14_B_Road (143 m2)	Area Pervious (ha)	None	None	0
Urban	A-14_B_Road (143 m2)	Total Area (ha)	None	None	0.014
Urban	A-14_C_Land (34m2)	Area Impervious (ha)	None	None	0.003
Urban	A-14_C_Land (34m2)	Area Pervious (ha)	None	None	0
Urban	A-14_C_Land (34m2)	Total Area (ha)	None	None	0.003
Urban	A-14_C_Road (201 m2)	Area Impervious (ha)	None	None	0.02
Urban	A-14_C_Road (201 m2)	Area Pervious (ha)	None	None	0
Urban	A-14_C_Road (201 m2)	Total Area (ha)	None	None	0.02
Urban	A-15_A_Landscape (49 m2)	Area Impervious (ha)	None	None	0.005
Urban	A-15_A_Landscape (49 m2)	Area Pervious (ha)	None	None	0
Urban	A-15_A_Landscape (49 m2)	Total Area (ha)	None	None	0.005
Urban	A-15_A_Roadway (237 m2)	Area Impervious (ha)	None	None	0.024
Urban	A-15_A_Roadway (237 m2)	Area Pervious (ha)	None	None	0
Urban	A-15_A_Roadway (237 m2)	Total Area (ha)	None	None	0.024
Urban	A-15_B_Landscape (55 m2)	Area Impervious (ha)	None	None	0.006
Urban	A-15_B_Landscape (55 m2)	Area Pervious (ha)	None	None	0
Urban	A-15_B_Landscape (55 m2)	Total Area (ha)	None	None	0.006
Urban	A-15_B_Roadway (273 m2)	Area Impervious (ha)	None	None	0.027
Urban	A-15_B_Roadway (273 m2)	Area Pervious (ha)	None	None	0
Urban	A-15_B_Roadway (273 m2)	Total Area (ha)	None	None	0.027
Urban	A-15_C_Landscape (48 m2)	Area Impervious (ha)	None	None	0.005
Urban	A-15_C_Landscape (48 m2)	Area Pervious (ha)	None	None	0
Urban	A-15_C_Landscape (48 m2)	Total Area (ha)	None	None	0.005
Urban	A-15_C_Roadway (207 m2)	Area Impervious (ha)	None	None	0.021
Urban	A-15_C_Roadway (207 m2)	Area Pervious (ha)	None	None	0
Urban	A-15_C_Roadway (207 m2)	Total Area (ha)	None	None	0.021
Urban	A-16_A_Landscape (38 m2)	Area Impervious (ha)	None	None	0.004
Urban	A-16_A_Landscape (38 m2)	Area Pervious (ha)	None	None	0
Urban	A-16_A_Landscape (38 m2)	Total Area (ha)	None	None	0.004
Urban	A-16_A_Roadway (115 m2)	Area Impervious (ha)	None	None	0.012
Urban	A-16_A_Roadway (115 m2)	Area Pervious (ha)	None	None	0
Urban	A-16_A_Roadway (115 m2)	Total Area (ha)	None	None	0.012
Urban	A-16_B_Landscape (14 m2)	Area Impervious (ha)	None	None	0.000

Only certain parameters are reported when they pass validation

Node Type	Node Name	Parameter	Min	Max	Actual
Urban	A-16_B_Landscape (14 m2)	Area Pervious (ha)	None	None	1.305
Urban	A-16_B_Landscape (14 m2)	Total Area (ha)	None	None	0.001
Urban	A-16_B_Roadway (222 m2)	Area Impervious (ha)	None	None	0.022
Urban	A-16_B_Roadway (222 m2)	Area Pervious (ha)	None	None	0
Urban	A-16_B_Roadway (222 m2)	Total Area (ha)	None	None	0.022
Urban	A-16_C_Landscape (13m2)	Area Impervious (ha)	None	None	0.001
Urban	A-16_C_Landscape (13m2)	Area Pervious (ha)	None	None	0
Urban	A-16_C_Landscape (13m2)	Total Area (ha)	None	None	0.001
Urban	A-16_C_Roadway (172 m2)	Area Impervious (ha)	None	None	0.017
Urban	A-16_C_Roadway (172 m2)	Area Pervious (ha)	None	None	0
Urban	A-16_C_Roadway (172 m2)	Total Area (ha)	None	None	0.017
Urban	A-2_A (54 m2)	Area Impervious (ha)	None	None	0.005
Urban	A-2_A (54 m2)	Area Pervious (ha)	None	None	0
Urban	A-2_A (54 m2)	Total Area (ha)	None	None	0.005
Urban	A-2_B (54 m2)	Area Impervious (ha)	None	None	0.005
Urban	A-2_B (54 m2)	Area Pervious (ha)	None	None	0
Urban	A-2_B (54 m2)	Total Area (ha)	None	None	0.005
Urban	A-2_C (54m2)	Area Impervious (ha)	None	None	0.005
Urban	A-2_C (54m2)	Area Pervious (ha)	None	None	0
Urban	A-2_C (54m2)	Total Area (ha)	None	None	0.005
Urban	A-4 (214m2)	Area Impervious (ha)	None	None	0.021
Urban	A-4 (214m2)	Area Pervious (ha)	None	None	0
Urban	A-4 (214m2)	Total Area (ha)	None	None	0.021
Urban	A-5 (485m2)	Area Impervious (ha)	None	None	0.048
Urban	A-5 (485m2)	Area Pervious (ha)	None	None	0
Urban	A-5 (485m2)	Total Area (ha)	None	None	0.048
Urban	A-6 (1047m2)	Area Impervious (ha)	None	None	0.105
Urban	A-6 (1047m2)	Area Pervious (ha)	None	None	0
Urban	A-6 (1047m2)	Total Area (ha)	None	None	0.105
Urban	A-7 (1058m2)	Area Impervious (ha)	None	None	0.106
Urban	A-7 (1058m2)	Area Pervious (ha)	None	None	0
Urban	A-7 (1058m2)	Total Area (ha)	None	None	0.106
Urban	A-8 (514m2)	Area Impervious (ha)	None	None	0.051
Urban	A-8 (514m2)	Area Pervious (ha)	None	None	0
Urban	A-8 (514m2)	Total Area (ha)	None	None	0.051
Urban	A-9 (372m2)	Area Impervious (ha)	None	None	0.037
Urban	A-9 (372m2)	Area Pervious (ha)	None	None	0
Urban	A-9 (372m2)	Total Area (ha)	None	None	0.037
Urban	B-1_B (123 m2)	Area Impervious (ha)	None	None	0.012
Urban	B-1_B (123 m2)	Area Pervious (ha)	None	None	0

Only certain parameters are reported when they pass validation

Node Type	Node Name	Parameter	Min	Max	Actual
Urban	B-1_B (123 m2)	Total Area (ha)	None	None	0.012
Urban	B-1_C (64m2)	Area Impervious (ha)	None	None	0.006
Urban	B-1_C (64m2)	Area Pervious (ha)	None	None	0
Urban	B-1_C (64m2)	Total Area (ha)	None	None	0.006
Urban	B-2_A(340 m2)	Area Impervious (ha)	None	None	0.034
Urban	B-2_A(340 m2)	Area Pervious (ha)	None	None	0
Urban	B-2_A(340 m2)	Total Area (ha)	None	None	0.034
Urban	Bypass (Total) 100sq.m	Area Impervious (ha)	None	None	0.01
Urban	Bypass (Total) 100sq.m	Area Pervious (ha)	None	None	0
Urban	Bypass (Total) 100sq.m	Total Area (ha)	None	None	0.01
Urban	C-1 (538m2)	Area Impervious (ha)	None	None	0.054
Urban	C-1 (538m2)	Area Pervious (ha)	None	None	0
Urban	C-1 (538m2)	Total Area (ha)	None	None	0.054
Urban	D-1_A(69 m2)	Area Impervious (ha)	None	None	0.007
Urban	D-1_A(69 m2)	Area Pervious (ha)	None	None	0
Urban	D-1_A(69 m2)	Total Area (ha)	None	None	0.007
Urban	D-1_B (56 m2)	Area Impervious (ha)	None	None	0.006
Urban	D-1_B (56 m2)	Area Pervious (ha)	None	None	0
Urban	D-1_B (56 m2)	Total Area (ha)	None	None	0.006
Urban	D-1_C (254 m2)	Area Impervious (ha)	None	None	0.025
Urban	D-1_C (254 m2)	Area Pervious (ha)	None	None	0
Urban	D-1_C (254 m2)	Total Area (ha)	None	None	0.025
Urban	D-3 (831m2)	Area Impervious (ha)	None	None	0.083
Urban	D-3 (831m2)	Area Pervious (ha)	None	None	0
Urban	D-3 (831m2)	Total Area (ha)	None	None	0.083
Urban	D-4 (474m2)	Area Impervious (ha)	None	None	0.047
Urban	D-4 (474m2)	Area Pervious (ha)	None	None	0
Urban	D-4 (474m2)	Total Area (ha)	None	None	0.047
Urban	E-1_A(197 m2)	Area Impervious (ha)	None	None	0.02
Urban	E-1_A(197 m2)	Area Pervious (ha)	None	None	0
Urban	E-1_A(197 m2)	Total Area (ha)	None	None	0.02
Urban	E-1_B (82 m2)	Area Impervious (ha)	None	None	0.008
Urban	E-1_B (82 m2)	Area Pervious (ha)	None	None	0
Urban	E-1_B (82 m2)	Total Area (ha)	None	None	0.008
Urban	E-1_C (112 m2)	Area Impervious (ha)	None	None	0.011
Urban	E-1_C (112 m2)	Area Pervious (ha)	None	None	0
Urban	E-1_C (112 m2)	Total Area (ha)	None	None	0.011
Urban	F-1 (680m2)	Area Impervious (ha)	None	None	0.068
Urban	F-1 (680m2)	Area Pervious (ha)	None	None	0
Urban	F-1 (680m2)	Total Area (ha)	None	None	0.068

Only certain parameters are reported when they pass validation

Node Type	Node Name	Parameter	Min	Max	Actual
Urban	G-1 (798m2)	Area Impervious (ha)	None	None	0.08
Urban	G-1 (798m2)	Area Pervious (ha)	None	None	0
Urban	G-1 (798m2)	Total Area (ha)	None	None	0.08
Urban	G-2 (258m2)	Area Impervious (ha)	None	None	0.026
Urban	G-2 (258m2)	Area Pervious (ha)	None	None	0
Urban	G-2 (258m2)	Total Area (ha)	None	None	0.026
Urban	H-1 (683m2)	Area Impervious (ha)	None	None	0.068
Urban	H-1 (683m2)	Area Pervious (ha)	None	None	0
Urban	H-1 (683m2)	Total Area (ha)	None	None	0.068
Urban	HS Oval (6_785 m2)	Area Impervious (ha)	None	None	0.679
Urban	HS Oval (6_785 m2)	Area Pervious (ha)	None	None	0
Urban	HS Oval (6_785 m2)	Total Area (ha)	None	None	0.679
Urban	I-1_A(70 m2)	Area Impervious (ha)	None	None	0.007
Urban	I-1_A(70 m2)	Area Pervious (ha)	None	None	0
Urban	I-1_A(70 m2)	Total Area (ha)	None	None	0.007
Urban	I-1_B (70 m2)	Area Impervious (ha)	None	None	0.007
Urban	I-1_B (70 m2)	Area Pervious (ha)	None	None	0
Urban	I-1_B (70 m2)	Total Area (ha)	None	None	0.007
Urban	I-1_C (70 m2)	Area Impervious (ha)	None	None	0.007
Urban	I-1_C (70 m2)	Area Pervious (ha)	None	None	0
Urban	I-1_C (70 m2)	Total Area (ha)	None	None	0.007
Urban	I-2_A(81 m2)	Area Impervious (ha)	None	None	0.008
Urban	I-2_A(81 m2)	Area Pervious (ha)	None	None	0
Urban	I-2_A(81 m2)	Total Area (ha)	None	None	0.008
Urban	I-2_B (87 m2)	Area Impervious (ha)	None	None	0.009
Urban	I-2_B (87 m2)	Area Pervious (ha)	None	None	0
Urban	I-2_B (87 m2)	Total Area (ha)	None	None	0.009
Urban	I-2_C (74 m2)	Area Impervious (ha)	None	None	0.007
Urban	I-2_C (74 m2)	Area Pervious (ha)	None	None	0
Urban	I-2_C (74 m2)	Total Area (ha)	None	None	0.007
Urban	I-3_A(126 m2)	Area Impervious (ha)	None	None	0.013
Urban	I-3_A(126 m2)	Area Pervious (ha)	None	None	0
Urban	I-3_A(126 m2)	Total Area (ha)	None	None	0.013
Urban	I-3_B (62 m2)	Area Impervious (ha)	None	None	0.006
Urban	I-3_B (62 m2)	Area Pervious (ha)	None	None	0
Urban	I-3_B (62 m2)	Total Area (ha)	None	None	0.006
Urban	I-3_C (52 m2)	Area Impervious (ha)	None	None	0.005
Urban	I-3_C (52 m2)	Area Pervious (ha)	None	None	0
Urban	I-3_C (52 m2)	Total Area (ha)	None	None	0.005
Urban	I-4_A(98 m2)	Area Impervious (ha)	None	None	0.01

Only certain parameters are reported when they pass validation

Node Type	Node Name	Parameter	Min	Max	Actual
Urban	I-4_A (98 m2)	Area Pervious (ha)	None	None	0
Urban	I-4_A (98 m2)	Total Area (ha)	None	None	0.01
Urban	I-4_B (99 m2)	Area Impervious (ha)	None	None	0.01
Urban	I-4_B (99 m2)	Area Pervious (ha)	None	None	0
Urban	I-4_B (99 m2)	Total Area (ha)	None	None	0.01
Urban	I-4_C (117 m2)	Area Impervious (ha)	None	None	0.012
Urban	I-4_C (117 m2)	Area Pervious (ha)	None	None	0
Urban	I-4_C (117 m2)	Total Area (ha)	None	None	0.012
Urban	I-5_A Landscape (45 m2)	Area Impervious (ha)	None	None	0.005
Urban	I-5_A Landscape (45 m2)	Area Pervious (ha)	None	None	0
Urban	I-5_A Landscape (45 m2)	Total Area (ha)	None	None	0.005
Urban	I-5_A Roadway (61 m2)	Area Impervious (ha)	None	None	0.006
Urban	I-5_A Roadway (61 m2)	Area Pervious (ha)	None	None	0
Urban	I-5_A Roadway (61 m2)	Total Area (ha)	None	None	0.006
Urban	I-5_B Landscape (36 m2)	Area Impervious (ha)	None	None	0.004
Urban	I-5_B Landscape (36 m2)	Area Pervious (ha)	None	None	0
Urban	I-5_B Landscape (36 m2)	Total Area (ha)	None	None	0.004
Urban	I-5_B Roadway (73 m2)	Area Impervious (ha)	None	None	0.007
Urban	I-5_B Roadway (73 m2)	Area Pervious (ha)	None	None	0
Urban	I-5_B Roadway (73 m2)	Total Area (ha)	None	None	0.007
Urban	I-5_C Landscape (82 m2)	Area Impervious (ha)	None	None	0.008
Urban	I-5_C Landscape (82 m2)	Area Pervious (ha)	None	None	0
Urban	I-5_C Landscape (82 m2)	Total Area (ha)	None	None	0.008
Urban	I-5_C Roadway (7 m2)	Area Impervious (ha)	None	None	0.001
Urban	I-5_C Roadway (7 m2)	Area Pervious (ha)	None	None	0
Urban	I-5_C Roadway (7 m2)	Total Area (ha)	None	None	0.001
Urban	I-5_Grated Drain (254 m2)	Area Impervious (ha)	None	None	0.025
Urban	I-5_Grated Drain (254 m2)	Area Pervious (ha)	None	None	0
Urban	I-5_Grated Drain (254 m2)	Total Area (ha)	None	None	0.025
Urban	I-6_A Landscape (25 m2)	Area Impervious (ha)	None	None	0.003
Urban	I-6_A Landscape (25 m2)	Area Pervious (ha)	None	None	0
Urban	I-6_A Landscape (25 m2)	Total Area (ha)	None	None	0.003
Urban	I-6_B Landscape (19 m2)	Area Impervious (ha)	None	None	0.002
Urban	I-6_B Landscape (19 m2)	Area Pervious (ha)	None	None	0
Urban	I-6_B Landscape (19 m2)	Total Area (ha)	None	None	0.002
Urban	I-6_B Roadway (160 m2)	Area Impervious (ha)	None	None	0.016
Urban	I-6_B Roadway (160 m2)	Area Pervious (ha)	None	None	0
Urban	I-6_B Roadway (160 m2)	Total Area (ha)	None	None	0.016
Urban	I-6_C Landscape (56 m2)	Area Impervious (ha)	None	None	0.006
Urban	I-6_C Landscape (56 m2)	Area Pervious (ha)	None	None	0

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Node Type	Node Name	Parameter	Min	Max	Actual
Urban	I-6_C_Landscape (56 m2)	Total Area (ha)	None	None	0.006
Urban	I-6_C_Roadway (162 m2)	Area Impervious (ha)	None	None	0.016
Urban	I-6_C_Roadway (162 m2)	Area Pervious (ha)	None	None	0
Urban	I-6_C_Roadway (162 m2)	Total Area (ha)	None	None	0.016
Urban	I-7_A (48 m2)	Area Impervious (ha)	None	None	0.005
Urban	I-7_A (48 m2)	Area Pervious (ha)	None	None	0
Urban	I-7_A (48 m2)	Total Area (ha)	None	None	0.005
Urban	I-7_B (48 m2)	Area Impervious (ha)	None	None	0.005
Urban	I-7_B (48 m2)	Area Pervious (ha)	None	None	0
Urban	I-7_B (48 m2)	Total Area (ha)	None	None	0.005
Urban	I-7_C (48 m2)	Area Impervious (ha)	None	None	0.005
Urban	I-7_C (48 m2)	Area Pervious (ha)	None	None	0
Urban	I-7_C (48 m2)	Total Area (ha)	None	None	0.005
Urban	I-8_B (53 m2)	Area Impervious (ha)	None	None	0.005
Urban	I-8_B (53 m2)	Area Pervious (ha)	None	None	0
Urban	I-8_B (53 m2)	Total Area (ha)	None	None	0.005
Urban	I-8_C (46 m2)	Area Impervious (ha)	None	None	0.005
Urban	I-8_C (46 m2)	Area Pervious (ha)	None	None	0
Urban	I-8_C (46 m2)	Total Area (ha)	None	None	0.005
Urban	J-1 (102m2)	Area Impervious (ha)	None	None	0.01
Urban	J-1 (102m2)	Area Pervious (ha)	None	None	0
Urban	J-1 (102m2)	Total Area (ha)	None	None	0.01
Urban	J-2 (580m2)	Area Impervious (ha)	None	None	0.058
Urban	J-2 (580m2)	Area Pervious (ha)	None	None	0
Urban	J-2 (580m2)	Total Area (ha)	None	None	0.058
Urban	K-1_A (66 m2)	Area Impervious (ha)	None	None	0.007
Urban	K-1_A (66 m2)	Area Pervious (ha)	None	None	0
Urban	K-1_A (66 m2)	Total Area (ha)	None	None	0.007
Urban	K-1_B (72 m2)	Area Impervious (ha)	None	None	0.007
Urban	K-1_B (72 m2)	Area Pervious (ha)	None	None	0
Urban	K-1_B (72 m2)	Total Area (ha)	None	None	0.007
Urban	K-1_C (201 m2)	Area Impervious (ha)	None	None	0.02
Urban	K-1_C (201 m2)	Area Pervious (ha)	None	None	0
Urban	K-1_C (201 m2)	Total Area (ha)	None	None	0.02
Urban	K-10_A (264m2)	Area Impervious (ha)	None	None	0.026
Urban	K-10_A (264m2)	Area Pervious (ha)	None	None	0
Urban	K-10_A (264m2)	Total Area (ha)	None	None	0.026
Urban	K-10_B (120m2)	Area Impervious (ha)	None	None	0.012
Urban	K-10_B (120m2)	Area Pervious (ha)	None	None	0
Urban	K-10_B (120m2)	Total Area (ha)	None	None	0.012

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Node Type	Node Name	Parameter	Min	Max	Actual
Urban	K-10_C (291m2)	Area Impervious (ha)	None	None	0.029
Urban	K-10_C (291m2)	Area Pervious (ha)	None	None	0
Urban	K-10_C (291m2)	Total Area (ha)	None	None	0.029
Urban	K-11_A(210m2)	Area Impervious (ha)	None	None	0.021
Urban	K-11_A(210m2)	Area Pervious (ha)	None	None	0
Urban	K-11_A(210m2)	Total Area (ha)	None	None	0.021
Urban	K-11_B (254m2)	Area Impervious (ha)	None	None	0.025
Urban	K-11_B (254m2)	Area Pervious (ha)	None	None	0
Urban	K-11_B (254m2)	Total Area (ha)	None	None	0.025
Urban	K-11_C (270m2)	Area Impervious (ha)	None	None	0.027
Urban	K-11_C (270m2)	Area Pervious (ha)	None	None	0
Urban	K-11_C (270m2)	Total Area (ha)	None	None	0.027
Urban	K-3 (175m2)	Area Impervious (ha)	None	None	0.017
Urban	K-3 (175m2)	Area Pervious (ha)	None	None	0
Urban	K-3 (175m2)	Total Area (ha)	None	None	0.017
Urban	K-4 (350m2)	Area Impervious (ha)	None	None	0.035
Urban	K-4 (350m2)	Area Pervious (ha)	None	None	0
Urban	K-4 (350m2)	Total Area (ha)	None	None	0.035
Urban	K-6_A (224 m2)	Area Impervious (ha)	None	None	0.022
Urban	K-6_A (224 m2)	Area Pervious (ha)	None	None	0
Urban	K-6_A (224 m2)	Total Area (ha)	None	None	0.022
Urban	K-6_B (90 m2)	Area Impervious (ha)	None	None	0.009
Urban	K-6_B (90 m2)	Area Pervious (ha)	None	None	0
Urban	K-6_B (90 m2)	Total Area (ha)	None	None	0.009
Urban	K-6_C (129 m2)	Area Impervious (ha)	None	None	0.013
Urban	K-6_C (129 m2)	Area Pervious (ha)	None	None	0
Urban	K-6_C (129 m2)	Total Area (ha)	None	None	0.013
Urban	K-7_A (246 m2)	Area Impervious (ha)	None	None	0.025
Urban	K-7_A (246 m2)	Area Pervious (ha)	None	None	0
Urban	K-7_A (246 m2)	Total Area (ha)	None	None	0.025
Urban	K-7_B (137 m2)	Area Impervious (ha)	None	None	0.014
Urban	K-7_B (137 m2)	Area Pervious (ha)	None	None	0
Urban	K-7_B (137 m2)	Total Area (ha)	None	None	0.014
Urban	K-7_C (380 m2)	Area Impervious (ha)	None	None	0.038
Urban	K-7_C (380 m2)	Area Pervious (ha)	None	None	0
Urban	K-7_C (380 m2)	Total Area (ha)	None	None	0.038
Urban	K-8_A(281 m2)	Area Impervious (ha)	None	None	0.028
Urban	K-8_A(281 m2)	Area Pervious (ha)	None	None	0
Urban	K-8_A(281 m2)	Total Area (ha)	None	None	0.028
Urban	K-8_B (169 m2)	Area Impervious (ha)	None	None	0.017

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Node Type	Node Name	Parameter	Min	Max	Actual
Urban	K-8_B (169 m2)	Area Pervious (ha)	None	None	0
Urban	K-8_B (169 m2)	Total Area (ha)	None	None	0.017
Urban	K-8_C (200 m2)	Area Impervious (ha)	None	None	0.02
Urban	K-8_C (200 m2)	Area Pervious (ha)	None	None	0
Urban	K-8_C (200 m2)	Total Area (ha)	None	None	0.02
Urban	L-1_A (127 m2)	Area Impervious (ha)	None	None	0.013
Urban	L-1_A (127 m2)	Area Pervious (ha)	None	None	0
Urban	L-1_A (127 m2)	Total Area (ha)	None	None	0.013
Urban	L-1_B (162 m2)	Area Impervious (ha)	None	None	0.016
Urban	L-1_B (162 m2)	Area Pervious (ha)	None	None	0
Urban	L-1_B (162 m2)	Total Area (ha)	None	None	0.016
Urban	L-1_C (304 m2)	Area Impervious (ha)	None	None	0.03
Urban	L-1_C (304 m2)	Area Pervious (ha)	None	None	0
Urban	L-1_C (304 m2)	Total Area (ha)	None	None	0.03
Urban	M-1 (275m2)	Area Impervious (ha)	None	None	0.027
Urban	M-1 (275m2)	Area Pervious (ha)	None	None	0
Urban	M-1 (275m2)	Total Area (ha)	None	None	0.027
Urban	M-2 (756m2)	Area Impervious (ha)	None	None	0.076
Urban	M-2 (756m2)	Area Pervious (ha)	None	None	0
Urban	M-2 (756m2)	Total Area (ha)	None	None	0.076
Urban	N-1 (370m2)	Area Impervious (ha)	None	None	0.037
Urban	N-1 (370m2)	Area Pervious (ha)	None	None	0
Urban	N-1 (370m2)	Total Area (ha)	None	None	0.037
Urban	O-1 (566 m2)	Area Impervious (ha)	None	None	0.057
Urban	O-1 (566 m2)	Area Pervious (ha)	None	None	0
Urban	O-1 (566 m2)	Total Area (ha)	None	None	0.057
Urban	O-2 (224 m2)	Area Impervious (ha)	None	None	0.022
Urban	O-2 (224 m2)	Area Pervious (ha)	None	None	0
Urban	O-2 (224 m2)	Total Area (ha)	None	None	0.022
Urban	O-3 (547 m2)	Area Impervious (ha)	None	None	0.055
Urban	O-3 (547 m2)	Area Pervious (ha)	None	None	0
Urban	O-3 (547 m2)	Total Area (ha)	None	None	0.055
Urban	P-1 (544 m2)	Area Impervious (ha)	None	None	0.054
Urban	P-1 (544 m2)	Area Pervious (ha)	None	None	0
Urban	P-1 (544 m2)	Total Area (ha)	None	None	0.054
Urban	P-2 (377 m2)	Area Impervious (ha)	None	None	0.038
Urban	P-2 (377 m2)	Area Pervious (ha)	None	None	0
Urban	P-2 (377 m2)	Total Area (ha)	None	None	0.038
Urban	Q-1 (440 m2)	Area Impervious (ha)	None	None	0.044
Urban	Q-1 (440 m2)	Area Pervious (ha)	None	None	0

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Node Type	Node Name	Parameter	Min	Max	Actual
Urban	Q-1 (440 m2)	Total Area (ha)	None	None	0.044
Urban	R-1 (300 m2)	Area Impervious (ha)	None	None	0.03
Urban	R-1 (300 m2)	Area Pervious (ha)	None	None	0
Urban	R-1 (300 m2)	Total Area (ha)	None	None	0.03
Urban	R-2 (477 m2)	Area Impervious (ha)	None	None	0.048
Urban	R-2 (477 m2)	Area Pervious (ha)	None	None	0
Urban	R-2 (477 m2)	Total Area (ha)	None	None	0.048
Urban	R-3 (376 m2)	Area Impervious (ha)	None	None	0.038
Urban	R-3 (376 m2)	Area Pervious (ha)	None	None	0
Urban	R-3 (376 m2)	Total Area (ha)	None	None	0.038
Urban	R-4 (744 m2)	Area Impervious (ha)	None	None	0.074
Urban	R-4 (744 m2)	Area Pervious (ha)	None	None	0
Urban	R-4 (744 m2)	Total Area (ha)	None	None	0.074
Urban	S-1 (179 m2)	Area Impervious (ha)	None	None	0.018
Urban	S-1 (179 m2)	Area Pervious (ha)	None	None	0
Urban	S-1 (179 m2)	Total Area (ha)	None	None	0.018
Urban	Sum Roofing (1.517 Ha)	Area Impervious (ha)	None	None	1.517
Urban	Sum Roofing (1.517 Ha)	Area Pervious (ha)	None	None	0
Urban	Sum Roofing (1.517 Ha)	Total Area (ha)	None	None	1.517
Urban	T-1 (505 m2)	Area Impervious (ha)	None	None	0.051
Urban	T-1 (505 m2)	Area Pervious (ha)	None	None	0
Urban	T-1 (505 m2)	Total Area (ha)	None	None	0.051
Urban	U-1_A(64 m2)	Area Impervious (ha)	None	None	0.006
Urban	U-1_A(64 m2)	Area Pervious (ha)	None	None	0
Urban	U-1_A(64 m2)	Total Area (ha)	None	None	0.006
Urban	U-1_B (64 m2)	Area Impervious (ha)	None	None	0.006
Urban	U-1_B (64 m2)	Area Pervious (ha)	None	None	0
Urban	U-1_B (64 m2)	Total Area (ha)	None	None	0.006
Urban	U-1_C (73 m2)	Area Impervious (ha)	None	None	0.007
Urban	U-1_C (73 m2)	Area Pervious (ha)	None	None	0
Urban	U-1_C (73 m2)	Total Area (ha)	None	None	0.007
Urban	U-2_A(190 m2)	Area Impervious (ha)	None	None	0.013
Urban	U-2_A(190 m2)	Area Pervious (ha)	None	None	0.005
Urban	U-2_A(190 m2)	Total Area (ha)	None	None	0.019
Urban	U-2_B (47 m2)	Area Impervious (ha)	None	None	0
Urban	U-2_B (47 m2)	Area Pervious (ha)	None	None	0.015
Urban	U-2_B (47 m2)	Total Area (ha)	None	None	0.015
Urban	U-2_C (47 m2)	Area Impervious (ha)	None	None	0
Urban	U-2_C (47 m2)	Area Pervious (ha)	None	None	0.005
Urban	U-2_C (47 m2)	Total Area (ha)	None	None	0.005

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Node Type	Node Name	Parameter	Min	Max	Actual
Urban	V-1_A(207 m2)	Area Impervious (ha)	None	None	0.021
Urban	V-1_A(207 m2)	Area Pervious (ha)	None	None	0
Urban	V-1_A(207 m2)	Total Area (ha)	None	None	0.021
Urban	V-1_B(248 m2)	Area Impervious (ha)	None	None	0.025
Urban	V-1_B(248 m2)	Area Pervious (ha)	None	None	0
Urban	V-1_B(248 m2)	Total Area (ha)	None	None	0.025
Urban	V-1_C(195m2)	Area Impervious (ha)	None	None	0.02
Urban	V-1_C(195m2)	Area Pervious (ha)	None	None	0
Urban	V-1_C(195m2)	Total Area (ha)	None	None	0.02
Urban	V-10_A(90m2)	Area Impervious (ha)	None	None	0.009
Urban	V-10_A(90m2)	Area Pervious (ha)	None	None	0
Urban	V-10_A(90m2)	Total Area (ha)	None	None	0.009
Urban	V-10_B(90m2)	Area Impervious (ha)	None	None	0.009
Urban	V-10_B(90m2)	Area Pervious (ha)	None	None	0
Urban	V-10_B(90m2)	Total Area (ha)	None	None	0.009
Urban	V-10_C(90m2)	Area Impervious (ha)	None	None	0.009
Urban	V-10_C(90m2)	Area Pervious (ha)	None	None	0
Urban	V-10_C(90m2)	Total Area (ha)	None	None	0.009
Urban	V-11_A_Land(93 m2)	Area Impervious (ha)	None	None	0.009
Urban	V-11_A_Land(93 m2)	Area Pervious (ha)	None	None	0
Urban	V-11_A_Land(93 m2)	Total Area (ha)	None	None	0.009
Urban	V-11_B_Land(70 m2)	Area Impervious (ha)	None	None	0.007
Urban	V-11_B_Land(70 m2)	Area Pervious (ha)	None	None	0
Urban	V-11_B_Land(70 m2)	Total Area (ha)	None	None	0.007
Urban	V-11_C_Land(41 m2)	Area Impervious (ha)	None	None	0.004
Urban	V-11_C_Land(41 m2)	Area Pervious (ha)	None	None	0
Urban	V-11_C_Land(41 m2)	Total Area (ha)	None	None	0.004
Urban	V-11_Road(43 m2)	Area Impervious (ha)	None	None	0.004
Urban	V-11_Road(43 m2)	Area Pervious (ha)	None	None	0
Urban	V-11_Road(43 m2)	Total Area (ha)	None	None	0.004
Urban	V-2_A(129m2)	Area Impervious (ha)	None	None	0.013
Urban	V-2_A(129m2)	Area Pervious (ha)	None	None	0
Urban	V-2_A(129m2)	Total Area (ha)	None	None	0.013
Urban	V-2_B(98m2)	Area Impervious (ha)	None	None	0.01
Urban	V-2_B(98m2)	Area Pervious (ha)	None	None	0
Urban	V-2_B(98m2)	Total Area (ha)	None	None	0.01
Urban	V-2_C(95m2)	Area Impervious (ha)	None	None	0.004
Urban	V-2_C(95m2)	Area Pervious (ha)	None	None	0.005
Urban	V-2_C(95m2)	Total Area (ha)	None	None	0.01
Urban	V-3_A(41 m2)	Area Impervious (ha)	None	None	0.004

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Node Type	Node Name	Parameter	Min	Max	Actual
Urban	V-3_A(41 m2)	Area Pervious (ha)	None	None	0
Urban	V-3_A(41 m2)	Total Area (ha)	None	None	0.004
Urban	V-3_B (39 m2)	Area Impervious (ha)	None	None	0.004
Urban	V-3_B (39 m2)	Area Pervious (ha)	None	None	0
Urban	V-3_B (39 m2)	Total Area (ha)	None	None	0.004
Urban	V-3_C (50 m2)	Area Impervious (ha)	None	None	0.005
Urban	V-3_C (50 m2)	Area Pervious (ha)	None	None	0
Urban	V-3_C (50 m2)	Total Area (ha)	None	None	0.005
Urban	V-4_A(55 m2)	Area Impervious (ha)	None	None	0.004
Urban	V-4_A(55 m2)	Area Pervious (ha)	None	None	0
Urban	V-4_A(55 m2)	Total Area (ha)	None	None	0.004
Urban	V-4_B (31 m2)	Area Impervious (ha)	None	None	0.003
Urban	V-4_B (31 m2)	Area Pervious (ha)	None	None	0
Urban	V-4_B (31 m2)	Total Area (ha)	None	None	0.003
Urban	V-4_C (26 m2)	Area Impervious (ha)	None	None	0.003
Urban	V-4_C (26 m2)	Area Pervious (ha)	None	None	0
Urban	V-4_C (26 m2)	Total Area (ha)	None	None	0.003
Urban	V-5_A(51 m2)	Area Impervious (ha)	None	None	0.005
Urban	V-5_A(51 m2)	Area Pervious (ha)	None	None	0
Urban	V-5_A(51 m2)	Total Area (ha)	None	None	0.005
Urban	V-5_B (73 m2)	Area Impervious (ha)	None	None	0.007
Urban	V-5_B (73 m2)	Area Pervious (ha)	None	None	0
Urban	V-5_B (73 m2)	Total Area (ha)	None	None	0.007
Urban	V-5_C (74 m2)	Area Impervious (ha)	None	None	0.007
Urban	V-5_C (74 m2)	Area Pervious (ha)	None	None	0
Urban	V-5_C (74 m2)	Total Area (ha)	None	None	0.007
Urban	V-6_A(76m2)	Area Impervious (ha)	None	None	0.008
Urban	V-6_A(76m2)	Area Pervious (ha)	None	None	0
Urban	V-6_A(76m2)	Total Area (ha)	None	None	0.008
Urban	V-6_B (67m2)	Area Impervious (ha)	None	None	0.007
Urban	V-6_B (67m2)	Area Pervious (ha)	None	None	0
Urban	V-6_B (67m2)	Total Area (ha)	None	None	0.007
Urban	V-6_C (63m2)	Area Impervious (ha)	None	None	0.006
Urban	V-6_C (63m2)	Area Pervious (ha)	None	None	0
Urban	V-6_C (63m2)	Total Area (ha)	None	None	0.006
Urban	V-7_A(341m2)	Area Impervious (ha)	None	None	0.034
Urban	V-7_A(341m2)	Area Pervious (ha)	None	None	0
Urban	V-7_A(341m2)	Total Area (ha)	None	None	0.034
Urban	V-7_B (24m2)	Area Impervious (ha)	None	None	0.002
Urban	V-7_B (24m2)	Area Pervious (ha)	None	None	0

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Node Type	Node Name	Parameter	Min	Max	Actual
Urban	V-7_B (24m2)	Total Area (ha)	None	None	0.002
Urban	V-7_C (61m2)	Area Impervious (ha)	None	None	0.006
Urban	V-7_C (61m2)	Area Pervious (ha)	None	None	0
Urban	V-7_C (61m2)	Total Area (ha)	None	None	0.006
Urban	V-8_A (80m2)	Area Impervious (ha)	None	None	0.008
Urban	V-8_A (80m2)	Area Pervious (ha)	None	None	0
Urban	V-8_A (80m2)	Total Area (ha)	None	None	0.008
Urban	V-8_B (80m2)	Area Impervious (ha)	None	None	0.008
Urban	V-8_B (80m2)	Area Pervious (ha)	None	None	0
Urban	V-8_B (80m2)	Total Area (ha)	None	None	0.008
Urban	V-8_C (80m2)	Area Impervious (ha)	None	None	0.008
Urban	V-8_C (80m2)	Area Pervious (ha)	None	None	0
Urban	V-8_C (80m2)	Total Area (ha)	None	None	0.008
Urban	V-9_A (90m2)	Area Impervious (ha)	None	None	0.009
Urban	V-9_A (90m2)	Area Pervious (ha)	None	None	0
Urban	V-9_A (90m2)	Total Area (ha)	None	None	0.009
Urban	V-9_B (90m2)	Area Impervious (ha)	None	None	0.009
Urban	V-9_B (90m2)	Area Pervious (ha)	None	None	0
Urban	V-9_B (90m2)	Total Area (ha)	None	None	0.009
Urban	V-9_C (90m2)	Area Impervious (ha)	None	None	0.009
Urban	V-9_C (90m2)	Area Pervious (ha)	None	None	0
Urban	V-9_C (90m2)	Total Area (ha)	None	None	0.009
Urban	W-1_A (155 m2)	Area Impervious (ha)	None	None	0.016
Urban	W-1_A (155 m2)	Area Pervious (ha)	None	None	0
Urban	W-1_A (155 m2)	Total Area (ha)	None	None	0.016
Urban	W-1_B (160 m2)	Area Impervious (ha)	None	None	0.016
Urban	W-1_B (160 m2)	Area Pervious (ha)	None	None	0
Urban	W-1_B (160 m2)	Total Area (ha)	None	None	0.016
Urban	W-1_C (42 m2)	Area Impervious (ha)	None	None	0.004
Urban	W-1_C (42 m2)	Area Pervious (ha)	None	None	0
Urban	W-1_C (42 m2)	Total Area (ha)	None	None	0.004
Urban	W-2_A_Landscape (87m2)	Area Impervious (ha)	None	None	0.009
Urban	W-2_A_Landscape (87m2)	Area Pervious (ha)	None	None	0
Urban	W-2_A_Landscape (87m2)	Total Area (ha)	None	None	0.009
Urban	W-2_B_Landscape (372 m2)	Area Impervious (ha)	None	None	0.037
Urban	W-2_B_Landscape (372 m2)	Area Pervious (ha)	None	None	0
Urban	W-2_B_Landscape (372 m2)	Total Area (ha)	None	None	0.037
Urban	W-2_C_Landscape (327 m2)	Area Impervious (ha)	None	None	0.033
Urban	W-2_C_Landscape (327 m2)	Area Pervious (ha)	None	None	0
Urban	W-2_C_Landscape (327 m2)	Total Area (ha)	None	None	0.033

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Node Type	Node Name	Parameter	Min	Max	Actual
Urban	W-2_Roadway (87 m2)	Area Impervious (ha)	None	None	0.008
Urban	W-2_Roadway (87 m2)	Area Pervious (ha)	None	None	0.000
Urban	W-2_Roadway (87 m2)	Total Area (ha)	None	None	0.009
Urban	W-3_A_Landscape (18 m2)	Area Impervious (ha)	None	None	0.002
Urban	W-3_A_Landscape (18 m2)	Area Pervious (ha)	None	None	0
Urban	W-3_A_Landscape (18 m2)	Total Area (ha)	None	None	0.002
Urban	W-3_A_Roadway (44 m2)	Area Impervious (ha)	None	None	0.004
Urban	W-3_A_Roadway (44 m2)	Area Pervious (ha)	None	None	0
Urban	W-3_A_Roadway (44 m2)	Total Area (ha)	None	None	0.004
Urban	W-3_B_Landscape (18m2)	Area Impervious (ha)	None	None	0.002
Urban	W-3_B_Landscape (18m2)	Area Pervious (ha)	None	None	0
Urban	W-3_B_Landscape (18m2)	Total Area (ha)	None	None	0.002
Urban	W-3_B_Roadway (184 m2)	Area Impervious (ha)	None	None	0.018
Urban	W-3_B_Roadway (184 m2)	Area Pervious (ha)	None	None	0
Urban	W-3_B_Roadway (184 m2)	Total Area (ha)	None	None	0.018
Urban	W-3_C_Landscape (18 m2)	Area Impervious (ha)	None	None	0.002
Urban	W-3_C_Landscape (18 m2)	Area Pervious (ha)	None	None	0
Urban	W-3_C_Landscape (18 m2)	Total Area (ha)	None	None	0.002
Urban	W-3_C_Roadway (91 m2)	Area Impervious (ha)	None	None	0.009
Urban	W-3_C_Roadway (91 m2)	Area Pervious (ha)	None	None	0
Urban	W-3_C_Roadway (91 m2)	Total Area (ha)	None	None	0.009
Urban	W-4)C_Landscape (23 m2)	Area Impervious (ha)	None	None	0.002
Urban	W-4)C_Landscape (23 m2)	Area Pervious (ha)	None	None	0
Urban	W-4)C_Landscape (23 m2)	Total Area (ha)	None	None	0.002
Urban	W-4_A_Landscape (22 m2)	Area Impervious (ha)	None	None	0.002
Urban	W-4_A_Landscape (22 m2)	Area Pervious (ha)	None	None	0
Urban	W-4_A_Landscape (22 m2)	Total Area (ha)	None	None	0.002
Urban	W-4_A_Roadway (88 m2)	Area Impervious (ha)	None	None	0.009
Urban	W-4_A_Roadway (88 m2)	Area Pervious (ha)	None	None	0
Urban	W-4_A_Roadway (88 m2)	Total Area (ha)	None	None	0.009
Urban	W-4_B_Landscape (23 m2)	Area Impervious (ha)	None	None	0.001
Urban	W-4_B_Landscape (23 m2)	Area Pervious (ha)	None	None	7.537
Urban	W-4_B_Landscape (23 m2)	Total Area (ha)	None	None	0.002
Urban	W-4_B_Roadway (114 m2)	Area Impervious (ha)	None	None	0.011
Urban	W-4_B_Roadway (114 m2)	Area Pervious (ha)	None	None	0
Urban	W-4_B_Roadway (114 m2)	Total Area (ha)	None	None	0.011
Urban	W-4_C_Roadway (162 m2)	Area Impervious (ha)	None	None	0.016
Urban	W-4_C_Roadway (162 m2)	Area Pervious (ha)	None	None	0
Urban	W-4_C_Roadway (162 m2)	Total Area (ha)	None	None	0.016
Urban	W-5_A_Landscape (22 m2)	Area Impervious (ha)	None	None	0.001

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Node Type	Node Name	Parameter	Min	Max	Actual
Urban	W-5_A_Landscape (22 m2)	Area Pervious (ha)	None	None	7.537
Urban	W-5_A_Landscape (22 m2)	Total Area (ha)	None	None	0.002
Urban	W-5_A_Roadway (83 m2)	Area Impervious (ha)	None	None	0.008
Urban	W-5_A_Roadway (83 m2)	Area Pervious (ha)	None	None	0
Urban	W-5_A_Roadway (83 m2)	Total Area (ha)	None	None	0.008
Urban	W-5_B_Landscape (25 m2)	Area Impervious (ha)	None	None	0.003
Urban	W-5_B_Landscape (25 m2)	Area Pervious (ha)	None	None	0
Urban	W-5_B_Landscape (25 m2)	Total Area (ha)	None	None	0.003
Urban	W-5_C_Landscape (25m2)	Area Impervious (ha)	None	None	0.003
Urban	W-5_C_Landscape (25m2)	Area Pervious (ha)	None	None	0
Urban	W-5_C_Landscape (25m2)	Total Area (ha)	None	None	0.003
Urban	W-5_C_Roadway (83 m2)	Area Impervious (ha)	None	None	0.008
Urban	W-5_C_Roadway (83 m2)	Area Pervious (ha)	None	None	0
Urban	W-5_C_Roadway (83 m2)	Total Area (ha)	None	None	0.008
Urban	W-5-B_Roadway (126 m2)	Area Impervious (ha)	None	None	0.013
Urban	W-5-B_Roadway (126 m2)	Area Pervious (ha)	None	None	0
Urban	W-5-B_Roadway (126 m2)	Total Area (ha)	None	None	0.013
Urban	W-6_A_Landscape (27m2)	Area Impervious (ha)	None	None	0.003
Urban	W-6_A_Landscape (27m2)	Area Pervious (ha)	None	None	0
Urban	W-6_A_Landscape (27m2)	Total Area (ha)	None	None	0.003
Urban	W-6_A_Roadway (58m2)	Area Impervious (ha)	None	None	0.006
Urban	W-6_A_Roadway (58m2)	Area Pervious (ha)	None	None	0
Urban	W-6_A_Roadway (58m2)	Total Area (ha)	None	None	0.006
Urban	W-6_B_Landscape (27 m2)	Area Impervious (ha)	None	None	0.003
Urban	W-6_B_Landscape (27 m2)	Area Pervious (ha)	None	None	0
Urban	W-6_B_Landscape (27 m2)	Total Area (ha)	None	None	0.003
Urban	W-6_B_Roadway (112 m2)	Area Impervious (ha)	None	None	0.011
Urban	W-6_B_Roadway (112 m2)	Area Pervious (ha)	None	None	0
Urban	W-6_B_Roadway (112 m2)	Total Area (ha)	None	None	0.011
Urban	W-6_C_Landscape (27 m2)	Area Impervious (ha)	None	None	0.002
Urban	W-6_C_Landscape (27 m2)	Area Pervious (ha)	None	None	2.261
Urban	W-6_C_Landscape (27 m2)	Total Area (ha)	None	None	0.003
Urban	W-6_C_Roadway (144 m2)	Area Impervious (ha)	None	None	0.014
Urban	W-6_C_Roadway (144 m2)	Area Pervious (ha)	None	None	0
Urban	W-6_C_Roadway (144 m2)	Total Area (ha)	None	None	0.014
Urban	W-7_A_Landscape (37m2)	Area Impervious (ha)	None	None	0.004
Urban	W-7_A_Landscape (37m2)	Area Pervious (ha)	None	None	0
Urban	W-7_A_Landscape (37m2)	Total Area (ha)	None	None	0.004
Urban	W-7_B_Landscape (24 m2)	Area Impervious (ha)	None	None	0.002
Urban	W-7_B_Landscape (24 m2)	Area Pervious (ha)	None	None	0

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Node Type	Node Name	Parameter	Min	Max	Actual
Urban	W-7_B_Landscape (24 m2)	Total Area (ha)	None	None	0.002
Urban	W-7_B_Roadway (152 m2)	Area Impervious (ha)	None	None	0.015
Urban	W-7_B_Roadway (152 m2)	Area Pervious (ha)	None	None	0
Urban	W-7_B_Roadway (152 m2)	Total Area (ha)	None	None	0.015
Urban	W-7_C_Landscape (24 m2)	Area Impervious (ha)	None	None	0.002
Urban	W-7_C_Landscape (24 m2)	Area Pervious (ha)	None	None	0
Urban	W-7_C_Landscape (24 m2)	Total Area (ha)	None	None	0.002
Urban	W-7_C_Roadway (70 m2)	Area Impervious (ha)	None	None	0.007
Urban	W-7_C_Roadway (70 m2)	Area Pervious (ha)	None	None	0
Urban	W-7_C_Roadway (70 m2)	Total Area (ha)	None	None	0.007
Urban	W-7_Roadway (259 m2)	Area Impervious (ha)	None	None	0.026
Urban	W-7_Roadway (259 m2)	Area Pervious (ha)	None	None	0
Urban	W-7_Roadway (259 m2)	Total Area (ha)	None	None	0.026
Urban	W-8 (176m2)	Area Impervious (ha)	None	None	0.018
Urban	W-8 (176m2)	Area Pervious (ha)	None	None	0
Urban	W-8 (176m2)	Total Area (ha)	None	None	0.018
Urban	W-9_Landscape (61 m2)	Area Impervious (ha)	None	None	0.006
Urban	W-9_Landscape (61 m2)	Area Pervious (ha)	None	None	0
Urban	W-9_Landscape (61 m2)	Total Area (ha)	None	None	0.006
Urban	W-9_Roadway (170 m2)	Area Impervious (ha)	None	None	0.017
Urban	W-9_Roadway (170 m2)	Area Pervious (ha)	None	None	0
Urban	W-9_Roadway (170 m2)	Total Area (ha)	None	None	0.017

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Failing Parameters

Node Type	Node Name	Parameter	Min	Max	Actual
Rain	Rainwater Tank	% Reuse Demand Met	80	None	65.2222

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