

223-009: White Moss Road Proposed S.W Network 1 - Rev D		Date: 05/03/2025			
		Designed by: JPR	Checked by: JCM		Approved By: JCM
Report Details: Type: Junctions Storm Phase: 223-009 PROPOSED S.W		AJP: 1 Dale Street L2 2ET			

Name	Junction Type	Easting (m)	Northing (m)	Cover Level (m)	Depth (m)	Invert Level (m)	Chamber Shape	Diameter (m)
1	Manhole	386419.731	403464.237	97.672	5.392	92.280	Circular	2.400
2	Manhole	386430.146	403449.350	97.155	4.920	92.235	Circular	2.400
3	Manhole	386446.634	403425.888	95.246	3.083	92.163	Circular	2.400
4	Manhole	386456.918	403411.770	94.464	2.344	92.120	Circular	2.400
5	Manhole	386464.861	403405.006	94.318	2.224	92.094	Circular	2.700
7	Manhole	386492.574	403388.515	96.100	4.167	91.933	Circular	1.800
9	Manhole	386512.655	403357.121	95.210	1.832	93.378	Circular	1.500
12	Manhole	386492.430	403371.164	95.450	3.612	91.838	Circular	1.500
13	Manhole	386487.440	403373.436	95.120	3.314	91.806	Circular	1.500
6	Manhole	386472.787	403418.220	95.204	3.071	92.133	Circular	2.400
10	Manhole	386521.163	403371.258	95.284	2.003	93.281	Circular	1.500
8	Manhole	386494.731	403375.622	95.700	3.832	91.868	Circular	2.400
11	Manhole	386505.684	403380.514	96.000	2.825	93.175	Circular	1.500

Name	Access Required	Intersection Easting (m)	Intersection Northing (m)	Lock
1	☒	386419.731	403464.237	All
2	☒	386430.146	403449.350	All
3	☒	386446.634	403425.888	All
4	☒	386456.918	403411.770	All
5	☐			All
7	☐			All
9	☒	386512.655	403357.121	None
12	☒	386492.430	403371.164	None
13	☐			All
6	☐			None
10	☐			None
8	☐			None
11	☐			None

Inlets

Junction	Inlet Name	Incoming Item(s)	Bypass Destination	Capacity Type
1	Inlet	8 - TOC	(None)	No Restriction
2	Inlet	1.000 7 - TOC	(None)	No Restriction
3	Inlet	1.001 6 - TOC	(None)	No Restriction
4	Inlet	1.002 5 - TOC	(None)	No Restriction
5	Inlet	1.003 2.001	(None)	No Restriction
7	Inlet (2)	1.004	(None)	No Restriction
9	Inlet	11 - TOC	(None)	No Restriction
12	Inlet (1)	1.006	(None)	No Restriction
13	Inlet (1)	1.007	(None)	No Restriction
6	Inlet	2.000	(None)	No Restriction
	Inlet (1)	9 - TOC	(None)	No Restriction
	Inlet	3.000	(None)	No Restriction
10	Inlet (1)	4.000	(None)	No Restriction
	Inlet (2)	10 - TOC	(None)	No Restriction
8	Inlet	1.005	(None)	No Restriction
	Inlet (1)	3.002	(None)	No Restriction
11	Inlet	3.001	(None)	No Restriction

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<table border="1"> <tr> <td>Outlets</td> </tr> </table>					Outlets
Outlets					

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Junction	Outlet Name	Outgoing Connection	Outlet Type
1	Outlet	1.000	Free Discharge
2	Outlet	1.001	Free Discharge
3	Outlet	1.002	Free Discharge
4	Outlet	1.003	Free Discharge
5	Outlet	1.004	Hydro-Brake®
	Invert Level (m)	92.094	
	Design Depth (m)	2.400	
	Design Flow (L/s)	10.0	
	Objective	Minimise Upstream Storage Requirements	
	Application	Surface Water Only	
	Sump Available	☒	
	Unit Reference	SHE-0125-1000-2400-1000	
7	Outlet (1)	1.005	Free Discharge
9	Outlet	3.000	Free Discharge
12	Outlet	1.007	Free Discharge
6	Outlet	2.001	Free Discharge
10	Outlet	3.001	Free Discharge
8	Outlet	1.006	Hydro-Brake®
	Invert Level (m)	91.868	
	Design Depth (m)	2.050	
	Design Flow (L/s)	6.0	
	Objective	Minimise Upstream Storage Requirements	
	Application	Surface Water Only	
	Sump Available	☒	
	Unit Reference	SHE-0100-6000-2050-6000	
11	Outlet	3.002	Free Discharge

223-009: White Moss Road Proposed S.W Network 1 - Rev D	Date: 05/03/2025		
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Report Details: Type: Stormwater Controls Storm Phase: 223-009 PROPOSED S.W	AJP: 1 Dale Street L2 2ET		





Tank

Type : Tank

Dimensions

Exceedance Level (m)	96.100
Depth (m)	2.800
Base Level (m)	93.300
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	0.00
Total Volume (m³)	91.600

Depth (m)	Area (m²)	Volume (m³)
0.000	75.00	0.000
1.200	75.00	90.000

Outlets

Outlet

Outgoing Connection	2.000
Outlet Type	Free Discharge

Advanced

Perimeter	Rectangular
Length (m)	8.000

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Tank 2

Type : Tank

Dimensions

Exceedance Level (m)	95.100
Depth (m)	1.700
Base Level (m)	93.400
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	0.00
Total Volume (m³)	72.900

Depth (m)	Area (m²)	Volume (m³)
0.000	90.00	0.000
0.800	90.00	72.000

Outlets

Outlet

Outgoing Connection	4.000
Outlet Type	Free Discharge

Advanced

Perimeter	Circular
Length (m)	16.464

223-009: White Moss Road Proposed S.W Network 1 - Rev D		Date: 05/03/2025			
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Report Details: Type: Connections Storm Phase: 223-009 PROPOSED S.W		AJP: 1 Dale Street L2 2ET			

Name	Length (m)	Connection Type	Slope (1:X)	Manning's n	Colebrook-White Roughness (mm)	Diameter / Base Width (mm)	Upstream Cover Level (m)	Upstream Invert Level (m)
1.000	18.169	Pipe	403.756		0.6	900	97.672	92.280
1.001	28.676	Pipe	398.278		0.6	900	97.155	92.235
1.002	17.466	Pipe	406.186		0.6	900	95.246	92.163
1.003	10.433	Pipe	401.269		0.6	900	94.464	92.120
2.001	15.409	Pipe	395.094		0.6	900	95.204	92.133
2.000	13.750	Pipe	11.782		0.6	150	96.100	93.300
3.000	16.500	Pipe	170.099		0.6	225	95.210	93.378
4.000	4.502	Pipe	102.325		0.6	150	95.100	93.400
1.005	13.072	Pipe	201.111		0.6	375	96.100	91.933
1.006	5.017	Pipe	167.224		0.6	225	95.700	91.868
1.007	5.483	Pipe	171.344		0.6	225	95.450	91.838
3.001	18.035	Pipe	170.145		0.6	225	95.284	93.281
3.002	11.996	Pipe	170.000		0.6	225	96.000	93.175
1.004	32.248	Pipe	200.299		0.6	375	94.318	92.094

Name	Downstream Cover Level (m)	Downstream Invert Level (m)	Lock	Flow Restriction (L/s)
1.000	97.155	92.235	None	
1.001	95.246	92.163	None	
1.002	94.464	92.120	None	
1.003	94.318	92.094	None	
2.001	94.318	92.094	None	
2.000	95.204	92.133	None	
3.000	95.284	93.281	None	
4.000	95.284	93.356	Levels	
1.005	95.700	91.868	None	
1.006	95.450	91.838	None	6.5
1.007	95.120	91.806	None	
3.001	96.000	93.175	None	
3.002	95.700	93.104	Levels	
1.004	96.100	91.933	None	9.6

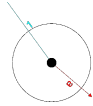
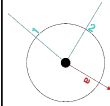
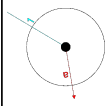
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Report Details: Type: Manhole Schedule Storm Phase: 223-009 PROPOSED S.W		AJP: 1 Dale Street L2 2ET			

Setting Out Information	
Easting Origin (m)	0.000
Northing Origin (m)	0.000
Orientation (Degrees anticlockwise from North)	0

Name	Cover Level (m) Invert Level (m)	Manhole Schematic	Manhole Size (m)	Connection Details				Type		
Coordinates (m)	Depth (m)			Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type	Flow Control Type	Flow Control IL (m)
Intersection (m)				Outgoing Connections				Cover		
1	97.672 92.280		Diameter / Length: 2.400					Manhole - Access Required	{a} Free Discharge	
E:386419.728 N:403464.240	5.392									
IP E:386419.728 IP N:403464.240				{a} 1.000	Pipe	92.280	Diam/Width: 900	Not Applicable		
2	97.155 92.235		Diameter / Length: 2.400	{1} 1.000	Pipe	92.235	Diam/Width: 900	Manhole - Access Required	{a} Free Discharge	
E:386430.143 N:403449.352	4.920									
IP E:386430.143 IP N:403449.352				{a} 1.001	Pipe	92.235	Diam/Width: 900	Not Applicable		
3	95.246 92.163		Diameter / Length: 2.400	{1} 1.001	Pipe	92.163	Diam/Width: 900	Manhole - Access Required	{a} Free Discharge	
E:386446.631 N:403425.891	3.083									
IP E:386446.631 IP N:403425.891				{a} 1.002	Pipe	92.163	Diam/Width: 900	Not Applicable		

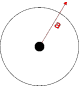
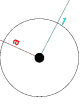
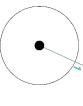
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Orientation (Degrees anticlockwise from North)	0

Name	Cover Level (m) Invert Level (m)	Manhole Schematic	Manhole Size (m)	Connection Details				Type		
Coordinates (m)	Depth (m)			Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type	Flow Control Type	Flow Control IL (m)
Intersection (m)				Outgoing Connections				Cover		
4	94.464 92.120		Diameter / Length: 2.400	{1} 1.002	Pipe	92.120	Diam/Width: 900	Manhole - Access Required	{a} Free Discharge	
E:386456.9 15 N:403411.7 73	2.344									
IP E:386456.9 15 IP N:403411.7 73				{a} 1.003	Pipe	92.120	Diam/Width: 900	Not Applicable		
5	94.318 92.094		Diameter / Length: 2.700	{1} 1.003	Pipe	92.094	Diam/Width: 900	Manhole	{a} Hydro-Brake®	92.094
E:386464.8 58 N:403405.0 09	2.224			{2} 2.001	Pipe	92.094	Diam/Width: 900			
IP E:386464.8 58 IP N:403405.0 09				{a} 1.004	Pipe	92.094	Diam/Width: 375	Not Applicable		
7	96.100 91.933		Diameter / Length: 1.800	{1} 1.004	Pipe	91.933	Diam/Width: 375	Manhole	{a} Free Discharge	
E:386492.5 71 N:403388.5 18	4.167									
IP E:386492.5 71 IP N:403388.5 18				{a} 1.005	Pipe	91.933	Diam/Width: 375	Not Applicable		

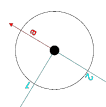
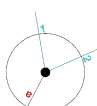
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Setting Out Information	
Easting Origin (m)	0.000
Northing Origin (m)	0.000
Orientation (Degrees anticlockwise from North)	0

Name	Cover Level (m) Invert Level (m)	Manhole Schematic	Manhole Size (m)	Connection Details				Type		
Coordinates (m)	Depth (m)			Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type	Flow Control Type	Flow Control IL (m)
Intersection (m)				Outgoing Connections				Cover		
9	95.210 93.378		Diameter / Length: 1.500					Manhole - Access Required	{a} Free Discharge	
E:386512.6 52 N:403357.1 24	1.832									
IP E:386512.6 52 IP N:403357.1 24				{a} 3.000	Pipe	93.378	Diam/Width: 225	Not Applicable		
12	95.450 91.838		Diameter / Length: 1.500	{1} 1.006	Pipe	91.838	Diam/Width: 225	Manhole - Access Required	{a} Free Discharge	
E:386492.4 28 N:403371.1 67	3.612									
IP E:386492.4 28 IP N:403371.1 67				{a} 1.007	Pipe	91.838	Diam/Width: 225	Not Applicable		
13	95.120 91.806		Diameter / Length: 1.500	{1} 1.007	Pipe	91.806	Diam/Width: 225	Manhole		
E:386487.4 37 N:403373.4 38	3.314									
IP E:386487.4 37 IP N:403373.4 38								Not Applicable		

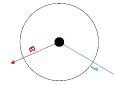
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Northing Origin (m)	0.000
Orientation (Degrees anticlockwise from North)	0

Name	Cover Level (m) Invert Level (m)	Manhole Schematic	Manhole Size (m)	Connection Details				Type		
Coordinates (m)	Depth (m)			Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type	Flow Control Type	Flow Control IL (m)
Intersection (m)				Outgoing Connections				Cover		
6	95.204 92.133		Diameter / Length: 2.400	{1} 2.000	Pipe	92.133	Diam/Width: 150	Manhole	{a} Free Discharge	
E:386472.784 N:403418.223	3.071									
IP E:386472.784 IP N:403418.223				{a} 2.001	Pipe	92.133	Diam/Width: 900	Not Applicable		
10	95.284 93.281		Diameter / Length: 1.500	{1} 3.000	Pipe	93.281	Diam/Width: 225	Manhole	{a} Free Discharge	
E:386521.160 N:403371.261	2.003			{2} 4.000	Pipe	93.356	Diam/Width: 150			
IP E:386521.160 IP N:403371.261				{a} 3.001	Pipe	93.281	Diam/Width: 225	Not Applicable		
8	95.700 91.868		Diameter / Length: 2.400	{1} 1.005	Pipe	91.868	Diam/Width: 375	Manhole	{a} Hydro-Brake®	91.868
E:386494.728 N:403375.625	3.832			{2} 3.002	Pipe	93.104	Diam/Width: 225			
IP E:386494.728 IP N:403375.625				{a} 1.006	Pipe	91.868	Diam/Width: 225	Not Applicable		

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Northing Origin (m)	0.000
Orientation (Degrees anticlockwise from North)	0

Name	Cover Level (m) Invert Level (m)	Manhole Schematic	Manhole Size (m)	Connection Details				Type		
Coordinates (m)	Depth (m)			Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type	Flow Control Type	Flow Control IL (m)
Intersection (m)				Outgoing Connections				Cover		
11	96.000 93.175		Diameter / Length: 1.500	{1} 3.001	Pipe	93.175	Diam/Width: 225	Manhole	{a} Free Discharge	
E:386505.6 81 N:403380.5 17	2.825									
IP E:386505.6 81 IP N:403380.5 17				{a} 3.002	Pipe	93.175	Diam/Width: 225	Not Applicable		

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		Designed by:	Checked by:	Approved By:	
		JPR	JCM	JCM	
Report Details: Type: Inflow Summary Storm Phase: 223-009 PROPOSED S.W		AJP: 1 Dale Street L2 2ET			

Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
5 - TOC	4		Time of Concentration	0.064	100	0	100	0.064
6 - TOC	3		Time of Concentration	0.076	100	0	100	0.076
7 - TOC	2		Time of Concentration	0.026	100	0	100	0.026
8 - TOC	1		Time of Concentration	0.108	100	0	100	0.108
9 - TOC	6		Time of Concentration	0.074	100	0	100	0.074
10 - TOC	10		Time of Concentration	0.057	100	0	100	0.057
11 - TOC	9		Time of Concentration	0.054	100	0	100	0.054
TOTAL		0.0		0.459				0.459

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Report Details: Type: Network Design Criteria Storm Phase: 223-009 PROPOSED S.W	AJP: 1 Dale Street L2 2ET		



Flow Options

Peak Flow Calculation	Rational Method
Min. Time of Entry (mins)	5
Max. Travel Time (mins)	30

Pipe Options

Lock Slope Options	None
Design Options	Minimise Excavation
Design Level	Level Inverts
Min. Slope (1:X)	1000.00
Max. Slope (1:X)	40.00
Use Flow Restriction	☒
Reduce Channel Depths	☒

Pipe Size Library

Add. Increment (mm)	0
Max. Diameter (mm)	0

Diameter (mm)	Min. Slope (1:X)	Max. Slope (1:X)
100	0.00	0.00
150	0.00	0.00

Manhole Options

Apply Offset	☐
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Manhole Size Library

Diameter / Width

Connection (mm)	Diameter / Length (m)	Width (m)
0	1.200	0.000
375	1.350	0.000
500	1.500	0.000
750	1.800	0.000

Depth

Depth (m)	Diameter / Length (m)	Width (m)
0.000	1.050	0.000
1.500	1.200	0.000

Access

Depth (m)	Ladder Protrusion (mm)
0.000	130
3.000	230

Benching Requirements

Landing Width (mm)	0
Benching Width (mm)	0

223-009: White Moss Road Proposed S.W Network 1 - Rev D	Date: 05/03/2025		
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Report Details: Type: Outfall Details Storm Phase: 223-009 PROPOSED S.W	AJP: 1 Dale Street L2 2ET		



Outfalls

Outfall	Outfall Type	Fixed Surcharged Level (m)	Level Curve
13	Free Discharge		

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Report Details: Type: Inflows Summary Storm Phase: 223-009 PROPOSED S.W		AJP: 1 Dale Street L2 2ET			



Sim Criteria FSR: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
8 - TOC	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	0.11	16.7	7.743
7 - TOC	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	0.03	4.0	1.863
6 - TOC	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	0.08	11.8	5.450
5 - TOC	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	0.06	9.9	4.592
9 - TOC	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	0.07	11.5	5.310
11 - TOC	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	0.05	8.4	3.875
10 - TOC	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	0.06	8.8	4.087

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		Designed by: JPR	Checked by: JCM		Approved By: JCM
Report Details: Type: Inflows Summary Storm Phase: 223-009 PROPOSED S.W		AJP: 1 Dale Street L2 2ET			



Sim Criteria FSR: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
8 - TOC	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	0.11	31.6	14.655
7 - TOC	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	0.03	7.6	3.526
6 - TOC	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	0.08	22.2	10.312
5 - TOC	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	0.06	18.7	8.686
9 - TOC	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	0.07	21.6	10.039
11 - TOC	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	0.05	15.8	7.324
10 - TOC	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	0.06	16.7	7.735

223-009: White Moss Road Proposed S.W Network 1 - Rev D		Date: 05/03/2025			
		Designed by: JPR	Checked by: JCM		Approved By: JCM
Report Details: Type: Inflows Summary Storm Phase: 223-009 PROPOSED S.W		AJP: 1 Dale Street L2 2ET			



Sim Criteria FSR: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
8 - TOC	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	0.11	59.4	27.422
7 - TOC	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	0.03	14.3	6.601
6 - TOC	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	0.08	41.8	19.297
5 - TOC	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	0.06	35.2	16.250
9 - TOC	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	0.07	40.7	18.788
11 - TOC	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	0.05	29.7	13.714
10 - TOC	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	0.06	31.3	14.474

223-009: White Moss Road Proposed S.W Network 1 - Rev D	Date: 05/03/2025			
	Designed by:	Checked by:	Approved By:	
Report Details: Type: Junctions Summary Storm Phase: 223-009 PROPOSED S.W	JPR	JCM	JCM	
	AJP: 1 Dale Street L2 2ET			



Sim Criteria FSR: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
1	Sim Criteria FSR: 2 years: +0 %: 120 mins: Winter	97.672	92.280	92.592	0.312	6.1	1.411	0.000	4.4	17.712	OK
2	Sim Criteria FSR: 2 years: +0 %: 120 mins: Winter	97.155	92.235	92.592	0.357	5.9	1.614	0.000	3.8	21.699	OK
3	Sim Criteria FSR: 2 years: +0 %: 120 mins: Winter	95.246	92.163	92.592	0.429	6.7	1.940	0.000	4.6	32.831	OK
4	Sim Criteria FSR: 2 years: +0 %: 120 mins: Winter	94.464	92.120	92.592	0.472	7.1	2.135	0.000	5.4	41.777	OK
5	Sim Criteria FSR: 2 years: +0 %: 120 mins: Winter	94.318	92.094	92.592	0.498	7.0	2.851	0.000	5.3	50.754	Surcharged
7	Sim Criteria FSR: 2 years: +0 %: 120 mins: Winter	96.100	91.933	92.509	0.576	5.2	1.466	0.000	4.9	48.161	Surcharged
9	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	95.210	93.378	93.446	0.068	8.4	0.121	0.000	8.0	3.873	OK
12	Sim Criteria FSR: 2 years: +0 %: 30 mins: Winter	95.450	91.838	91.896	0.058	5.1	0.103	0.000	5.1	14.706	OK
13	Sim Criteria FSR: 2 years: +0 %: 480 mins: Summer	95.120	91.806	91.860	0.054	5.1	0.000	0.000	5.1	108.034	OK
6	Sim Criteria FSR: 2 years: +0 %: 120 mins: Winter	95.204	92.133	92.592	0.459	4.1	2.076	0.000	2.2	10.976	OK
10	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	95.284	93.281	93.387	0.106	16.9	0.187	0.000	15.9	7.951	OK
8	Sim Criteria FSR: 2 years: +0 %: 120 mins: Winter	95.700	91.868	92.509	0.641	6.2	2.900	0.000	5.1	64.344	Surcharged
11	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	96.000	93.175	93.277	0.102	15.9	0.180	0.000	14.7	7.917	OK

223-009: White Moss Road Proposed S.W Network 1 - Rev D	Date: 05/03/2025			
	Designed by:	Checked by:	Approved By:	
Report Details: Type: Junctions Summary Storm Phase: 223-009 PROPOSED S.W	JPR	JCM	JCM	
	AJP: 1 Dale Street L2 2ET			



Sim Criteria FSR: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
1	Sim Criteria FSR: 30 years: +0 %: 240 mins: Winter	97.672	92.280	93.361	1.081	7.2	4.889	0.000	4.5	37.953	Surcharged
2	Sim Criteria FSR: 30 years: +0 %: 240 mins: Winter	97.155	92.235	93.361	1.126	6.2	5.092	0.000	2.7	41.137	Surcharged
3	Sim Criteria FSR: 30 years: +0 %: 240 mins: Winter	95.246	92.163	93.361	1.198	5.8	5.418	0.000	4.3	62.092	Surcharged
4	Sim Criteria FSR: 30 years: +0 %: 240 mins: Winter	94.464	92.120	93.361	1.241	5.6	5.613	0.000	5.6	79.148	Surcharged
5	Sim Criteria FSR: 30 years: +0 %: 240 mins: Winter	94.318	92.094	93.361	1.267	5.6	7.253	0.000	4.7	97.018	Surcharged
7	Sim Criteria FSR: 30 years: +0 %: 240 mins: Winter	96.100	91.933	93.278	1.345	4.7	3.422	0.000	4.9	92.420	Surcharged
9	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	95.210	93.378	93.478	0.100	15.8	0.176	0.000	15.1	7.325	OK
12	Sim Criteria FSR: 30 years: +0 %: 360 mins: Winter	95.450	91.838	91.896	0.058	5.1	0.103	0.000	5.1	192.475	OK
13	Sim Criteria FSR: 30 years: +0 %: 360 mins: Winter	95.120	91.806	91.860	0.054	5.1	0.000	0.000	5.1	192.475	OK
6	Sim Criteria FSR: 30 years: +0 %: 240 mins: Winter	95.204	92.133	93.361	1.228	4.9	5.554	0.000	2.9	29.754	Surcharged
10	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	95.284	93.281	93.441	0.160	31.8	0.284	0.000	29.6	15.047	OK
8	Sim Criteria FSR: 30 years: +0 %: 240 mins: Winter	95.700	91.868	93.278	1.410	7.4	6.377	0.000	5.1	129.726	Surcharged
11	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	96.000	93.175	93.327	0.152	29.6	0.269	0.000	27.5	14.908	OK

223-009: White Moss Road Proposed S.W Network 1 - Rev D		Date: 05/03/2025			
		Designed by: JPR	Checked by: JCM		Approved By: JCM
Report Details: Type: Junctions Summary Storm Phase: 223-009 PROPOSED S.W		AJP: 1 Dale Street L2 2ET			



Sim Criteria FSR: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
1	Sim Criteria FSR: 100 years: +45 %: 120 mins: Winter	97.67 2	92.28 0	94.212	1.932	21.7	8.740	0.000	16.5	50.621	Surcharged
2	Sim Criteria FSR: 100 years: +45 %: 120 mins: Winter	97.15 5	92.23 5	94.212	1.977	21.1	8.943	0.000	18.3	44.606	Surcharged
3	Sim Criteria FSR: 100 years: +45 %: 120 mins: Winter	95.24 6	92.16 3	94.212	2.049	31.8	9.269	0.000	29.0	68.940	Surcharged
4	Sim Criteria FSR: 100 years: +45 %: 120 mins: Winter	94.46 4	92.12 0	94.212	2.092	40.4	9.463	0.000	37.6	89.721	Surcharged
5	Sim Criteria FSR: 100 years: +45 %: 120 mins: Winter	94.31 8	92.09 4	94.212	2.118	37.6	12.126	0.000	8.8	107.060	Surcharged
7	Sim Criteria FSR: 100 years: +45 %: 360 mins: Winter	96.10 0	91.93 3	94.020	2.087	8.2	5.310	0.000	8.0	160.611	Surcharged
9	Sim Criteria FSR: 100 years: +45 %: 360 mins: Winter	95.21 0	93.37 8	94.020	0.642	5.1	1.134	0.000	5.4	43.308	Surcharged
12	Sim Criteria FSR: 100 years: +45 %: 360 mins: Winter	95.45 0	91.83 8	91.902	0.064	6.0	0.112	0.000	6.0	229.136	OK
13	Sim Criteria FSR: 100 years: +45 %: 360 mins: Winter	95.12 0	91.80 6	91.865	0.059	6.0	0.000	0.000	6.0	229.136	OK
6	Sim Criteria FSR: 100 years: +45 %: 120 mins: Winter	95.20 4	92.13 3	94.212	2.079	38.9	9.404	0.000	6.1	91.099	Surcharged
10	Sim Criteria FSR: 100 years: +45 %: 360 mins: Winter	95.28 4	93.28 1	94.020	0.739	12.9	1.305	0.000	10.0	151.995	Surcharged
8	Sim Criteria FSR: 100 years: +45 %: 360 mins: Winter	95.70 0	91.86 8	94.019	2.151	9.4	9.733	0.000	6.0	246.230	Surcharged
11	Sim Criteria FSR: 100 years: +45 %: 360 mins: Winter	96.00 0	93.17 5	94.020	0.845	10.0	1.492	0.000	9.4	108.126	Surcharged

223-009: White Moss Road Proposed S.W Network 1 - Rev D		Date: 05/03/2025			
		Designed by: JPR	Checked by: JCM		Approved By: JCM
Report Details: Type: Stormwater Controls Summary Storm Phase: 223-009 PROPOSED S.W		AJP: 1 Dale Street L2 2ET			



Sim Criteria FSR: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank
By: Max. Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Residual Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Tank	Sim Criteria FSR: 2 years: +0 %: 15 mins: Summer	93.300	93.300	0.000	0.000	0.0	0.000	0.000	0.000	0.0	0.000	100.000	OK
Tank 2	Sim Criteria FSR: 2 years: +0 %: 15 mins: Summer	93.400	93.400	0.000	0.000	0.0	0.000	0.000	0.000	0.0	0.000	100.000	OK

223-009: White Moss Road Proposed S.W Network 1 - Rev D		Date: 05/03/2025			
		Designed by: JPR	Checked by: JCM		Approved By: JCM
Report Details: Type: Stormwater Controls Summary Storm Phase: 223-009 PROPOSED S.W		AJP: 1 Dale Street L2 2ET			



Sim Criteria FSR: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank
By: Max. Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Residual Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Tank	Sim Criteria FSR: 30 years: +0 %: 240 mins: Winter	93.361	93.361	0.061	0.061	4.1	4.551	0.000	0.000	2.7	4.376	95.031	OK
Tank 2	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	93.401	93.401	0.001	0.001	0.3	0.101	0.000	0.000	0.0	0.000	99.862	OK

223-009: White Moss Road Proposed S.W Network 1 - Rev D		Date: 05/03/2025			
		Designed by: JPR	Checked by: JCM		Approved By: JCM
Report Details: Type: Stormwater Controls Summary Storm Phase: 223-009 PROPOSED S.W		AJP: 1 Dale Street L2 2ET			



Sim Criteria FSR: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item:
Rank By: Max. Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Residual Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Tank	Sim Criteria FSR: 100 years: +45 %: 360 mins: Winter	94.162	94.162	0.862	0.862	23.0	64.640	0.000	0.000	2.8	48.221	29.432	OK
Tank 2	Sim Criteria FSR: 100 years: +45 %: 360 mins: Winter	94.020	94.020	0.620	0.620	13.2	55.778	0.000	0.000	2.5	51.217	23.487	OK

223-009: White Moss Road Proposed S.W Network 1 - Rev D				Date: 05/03/2025				
				Designed by: JPR	Checked by: JCM	Approved By: JCM		
Report Details: Type: Connections Summary Storm Phase: 223-009 PROPOSED S.W				AJP: 1 Dale Street L2 2ET				



Sim Criteria FSR: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
1.000	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	1	2	97.672	92.426	0.169	6.709	0.5	0.02	15.9	OK
1.001	Sim Criteria FSR: 2 years: +0 %: 15 mins: Summer	Pipe	2	3	97.155	92.399	0.200	5.672	0.3	0.01	13.5	OK
1.002	Sim Criteria FSR: 2 years: +0 %: 15 mins: Summer	Pipe	3	4	95.246	92.398	0.257	6.969	0.3	0.01	14.1	OK
1.003	Sim Criteria FSR: 2 years: +0 %: 15 mins: Summer	Pipe	4	5	94.464	92.398	0.291	7.857	0.3	0.01	13.5	OK
2.001	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	6	5	95.204	92.426	0.313	2.621	0.2	0	4.1	OK
2.000	Sim Criteria FSR: 2 years: +0 %: 15 mins: Summer	Pipe	Tank	6	96.100	93.300	0.132	0.000	0.0	0	0.0	OK
3.000	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	9	10	95.210	93.446	0.087	3.873	0.6	0.2	8.0	OK
4.000	Sim Criteria FSR: 2 years: +0 %: 15 mins: Summer	Pipe	Tank 2	10	95.100	93.400	0.014	0.000	0.0	0	0.0	OK
1.005	Sim Criteria FSR: 2 years: +0 %: 60 mins: Winter	Pipe	7	8	96.100	92.499	0.375	20.042	0.1	0.03	4.9	Surcharged
1.006	Sim Criteria FSR: 2 years: +0 %: 30 mins: Winter	Pipe	8	12	95.700	92.441	0.059	14.853	0.6	0.13	5.1	Surcharged
1.007	Sim Criteria FSR: 2 years: +0 %: 480 mins: Summer	Pipe	12	13	95.450	91.896	0.056	108.034	0.7	0.13	5.1	OK
3.001	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	10	11	95.284	93.387	0.104	7.951	0.9	0.4	15.9	OK
3.002	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	11	8	96.000	93.277	0.098	7.917	0.9	0.37	14.7	OK

223-009: White Moss Road Proposed S.W Network 1 - Rev D				Date: 05/03/2025								
				Designed by:	Checked by:	Approved By:						
				JPR	JCM	JCM						
Report Details:				AJP:								
Type: Connections Summary				1 Dale Street								
Storm Phase: 223-009 PROPOSED S.W				L2 2ET								
1.004	Sim Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	5	7	94.318	92.426	0.339	5.190	0.4	0.05	6.9	OK

223-009: White Moss Road Proposed S.W Network 1 - Rev D	Date: 05/03/2025			
	Designed by:	Checked by:	Approved By:	
Report Details: Type: Connections Summary Storm Phase: 223-009 PROPOSED S.W	JPR	JCM	JCM	
	AJP: 1 Dale Street L2 2ET			



Sim Criteria FSR: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
1.000	Sim Criteria FSR: 30 years: +0 %: 15 mins: Summer	Pipe	1	2	97.672	92.613	0.356	9.818	0.4	0.02	22.0	OK
1.001	Sim Criteria FSR: 30 years: +0 %: 30 mins: Winter	Pipe	2	3	97.155	92.846	0.647	6.835	0.3	0.01	8.4	OK
1.002	Sim Criteria FSR: 30 years: +0 %: 15 mins: Summer	Pipe	3	4	95.246	92.612	0.471	5.900	0.4	0.01	9.9	OK
1.003	Sim Criteria FSR: 30 years: +0 %: 15 mins: Summer	Pipe	4	5	94.464	92.612	0.505	6.723	0.2	0.01	13.4	OK
2.001	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	6	5	95.204	92.668	0.554	4.513	0.1	0.01	12.4	OK
2.000	Sim Criteria FSR: 30 years: +0 %: 240 mins: Winter	Pipe	Tank	6	96.100	93.361	0.150	0.000	0.2	0.05	2.7	OK
3.000	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	9	10	95.210	93.478	0.130	7.325	0.6	0.38	15.1	OK
4.000	Sim Criteria FSR: 30 years: +0 %: 15 mins: Summer	Pipe	Tank 2	10	95.100	93.401	0.039	0.000	0.0	0	0.0	OK
1.005	Sim Criteria FSR: 30 years: +0 %: 360 mins: Winter	Pipe	7	8	96.100	93.256	0.375	146.247	0.1	0.03	4.9	Surcharged
1.006	Sim Criteria FSR: 30 years: +0 %: 360 mins: Winter	Pipe	8	12	95.700	93.256	0.059	192.607	0.6	0.13	5.1	Surcharged
1.007	Sim Criteria FSR: 30 years: +0 %: 360 mins: Winter	Pipe	12	13	95.450	91.896	0.056	192.475	0.7	0.13	5.1	OK
3.001	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	10	11	95.284	93.441	0.156	14.946	1.0	0.75	29.6	OK
3.002	Sim Criteria FSR: 30 years: +0 %: 15 mins: Winter	Pipe	11	8	96.000	93.327	0.144	14.908	1.0	0.69	27.5	OK

223-009: White Moss Road Proposed S.W Network 1 - Rev D				Date: 05/03/2025									
				Designed by: JPR		Checked by: JCM						Approved By: JCM	
Report Details: Type: Connections Summary Storm Phase: 223-009 PROPOSED S.W				AJP: 1 Dale Street L2 2ET									

1.004	Sim Criteria FSR: 30 years: +0 %: 60 mins: Winter	Pipe	5	7	94.318	93.074	0.375	11.912	0.5	0.05	6.5	Surchar ged
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223-009: White Moss Road Proposed S.W Network 1 - Rev D				Date: 05/03/2025				
Report Details: Type: Connections Summary Storm Phase: 223-009 PROPOSED S.W				Designed by: JPR	Checked by: JCM	Approved By: JCM		
				AJP: 1 Dale Street L2 2ET				



Sim Criteria FSR: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
1.000	Sim Criteria FSR: 100 years: +45 %: 15 mins: Summer	Pipe	1	2	97.672	93.067	0.810	15.844	0.5	0.04	38.3	OK
1.001	Sim Criteria FSR: 100 years: +45 %: 120 mins: Winter	Pipe	2	3	97.155	94.212	0.900	43.023	0.3	0.02	18.3	Surcharged
1.002	Sim Criteria FSR: 100 years: +45 %: 120 mins: Winter	Pipe	3	4	95.246	94.212	0.900	64.599	0.3	0.03	29.0	Surcharged
1.003	Sim Criteria FSR: 100 years: +45 %: 120 mins: Winter	Pipe	4	5	94.464	94.212	0.900	85.192	0.3	0.04	37.6	Surcharged
2.001	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	6	5	95.204	93.273	0.900	8.408	0.1	0.02	19.2	Surcharged
2.000	Sim Criteria FSR: 100 years: +45 %: 120 mins: Winter	Pipe	Tank	6	96.100	94.067	0.150	0.000	0.3	0.1	5.4	Surcharged
3.000	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	9	10	95.210	93.685	0.225	13.734	0.6	0.64	25.6	Surcharged
4.000	Sim Criteria FSR: 100 years: +45 %: 30 mins: Winter	Pipe	Tank 2	10	95.100	93.537	0.150	0.000	0.2	0.25	4.4	OK
1.005	Sim Criteria FSR: 100 years: +45 %: 60 mins: Winter	Pipe	7	8	96.100	93.787	0.375	16.527	0.1	0.08	10.8	Surcharged
1.006	Sim Criteria FSR: 100 years: +45 %: 360 mins: Winter	Pipe	8	12	95.700	94.019	0.064	229.284	0.6	0.15	6.0	Surcharged

223-009: White Moss Road Proposed S.W Network 1 - Rev D		Date: 05/03/2025		
		Designed by: JPR	Checked by: JCM	Approved By: JCM
Report Details: Type: Connections Summary Storm Phase: 223-009 PROPOSED S.W		AJP: 1 Dale Street L2 2ET		



1.007	Sim Criteria FSR: 100 years: +45 %: 360 mins: Winter	Pipe	12	13	95.450	91.902	0.061	229.136	0.7	0.15	6.0	OK
3.001	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	10	11	95.284	93.633	0.225	26.222	1.3	1.26	50.0	Surchar ged
3.002	Sim Criteria FSR: 100 years: +45 %: 15 mins: Winter	Pipe	11	8	96.000	93.487	0.225	25.840	1.2	1.19	47.1	Surchar ged
1.004	Sim Criteria FSR: 100 years: +45 %: 60 mins: Winter	Pipe	5	7	94.318	94.188	0.375	23.775	0.4	0.07	9.4	Surchar ged

223-009: White Moss Road Proposed S.W Network 1 - Rev D	Date: 05/03/2025		
	Designed by: JPR	Checked by: JCM	Approved By: JCM
Report Details: Type: Phase Management Storm Phase: 223-009 PROPOSED S.W	AJP: 1 Dale Street L2 2ET		



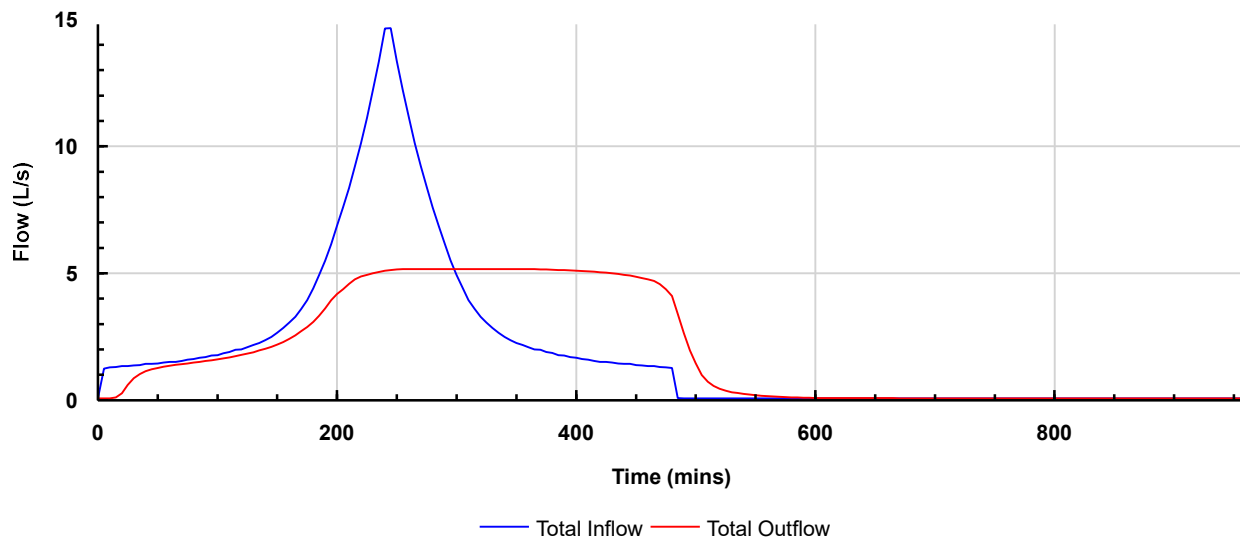
223-009 PROPOSED S.W NETWORK.SWS
Sim Criteria FSR: 2 years: Increase Rainfall (%): +0: 480 mins: Summer

Tables

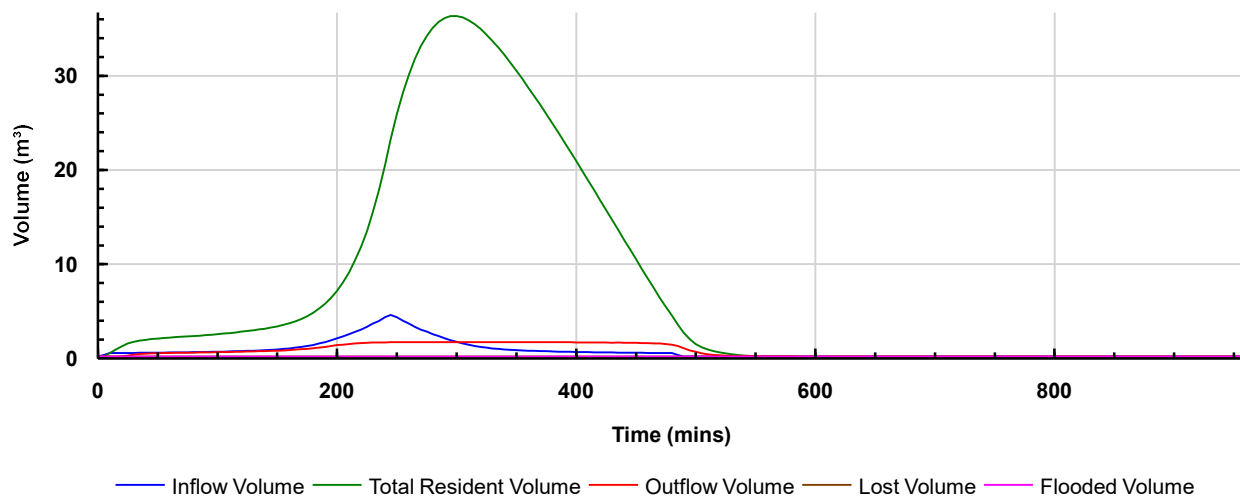
Name	Max. Inflow (L/s)	Total Inflow Volume (m³)	Max. Outflow (L/s)	Total Outflow Volume (m³)
13			5.1	108.034
TOTAL	14.7	108.058	5.1	108.034

Graphs

Flow Graph



Volume Graph



223-009: White Moss Road Proposed S.W Network 1 - Rev D	Date: 05/03/2025		
	Designed by: JPR	Checked by: JCM	Approved By: JCM
Report Details: Type: Phase Management Storm Phase: 223-009 PROPOSED S.W	AJP: 1 Dale Street L2 2ET		



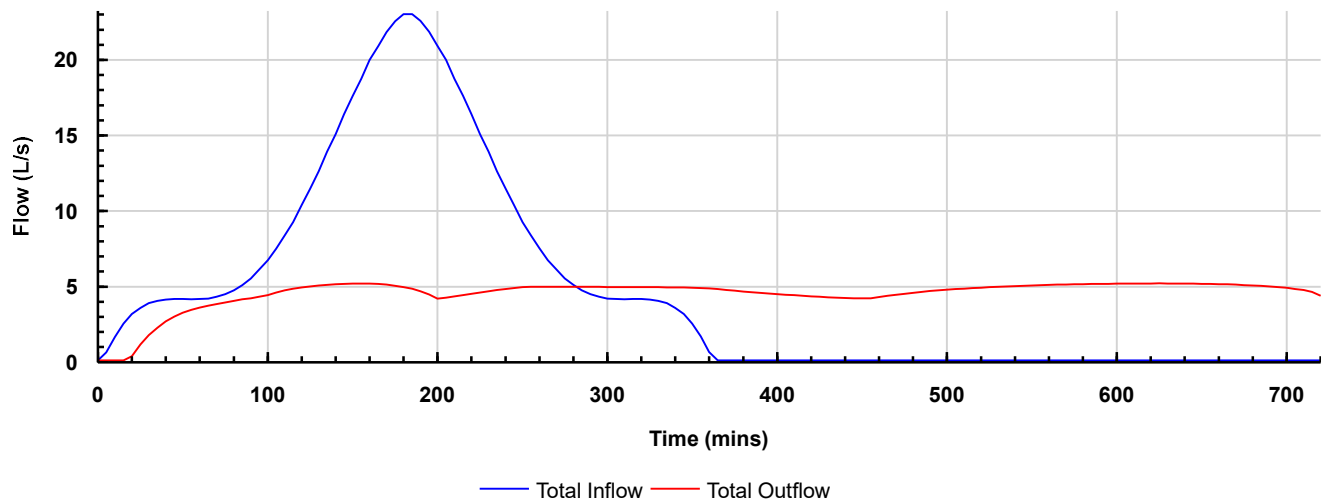
223-009 PROPOSED S.W NETWORK.SWS
Sim Criteria FSR: 30 years: Increase Rainfall (%): +0: 360 mins: Winter

Tables

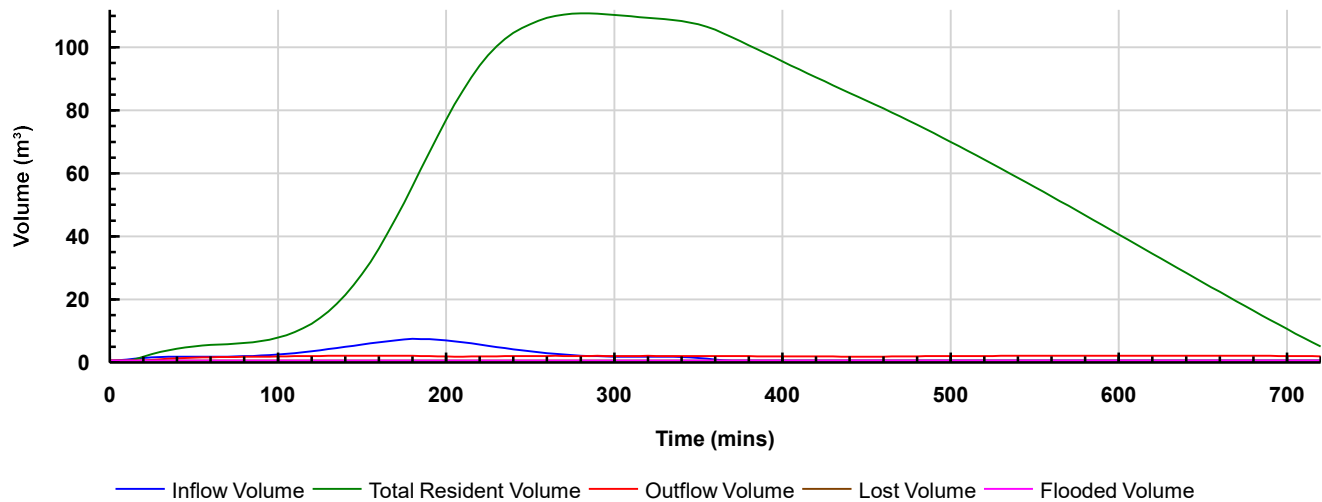
Name	Max. Inflow (L/s)	Total Inflow Volume (m³)	Max. Outflow (L/s)	Total Outflow Volume (m³)
13			5.1	192.475
TOTAL	23.0	197.403	5.1	192.475

Graphs

Flow Graph



Volume Graph



223-009: White Moss Road Proposed S.W Network 1 - Rev D	Date: 05/03/2025		
	Designed by: JPR	Checked by: JCM	Approved By: JCM
Report Details: Type: Phase Management Storm Phase: 223-009 PROPOSED S.W	AJP: 1 Dale Street L2 2ET		



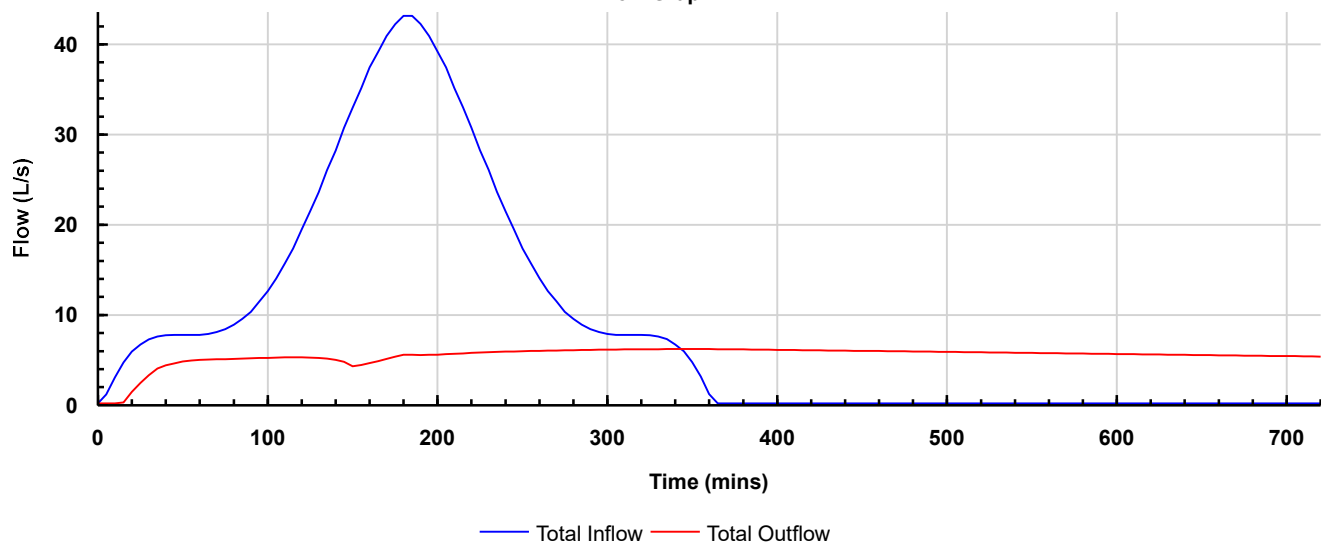
223-009 PROPOSED S.W NETWORK.SWS
Sim Criteria FSR: 100 years: Increase Rainfall (%): +45: 360 mins: Winter

Tables

Name	Max. Inflow (L/s)	Total Inflow Volume (m³)	Max. Outflow (L/s)	Total Outflow Volume (m³)
13			6.0	229.136
TOTAL	43.2	369.866	6.0	229.136

Graphs

Flow Graph



Volume Graph

