

Amber Willard
Arun District Council
Maltravers Road
Littlehampton
West Sussex
BN17 5LF

15th July 2026
Our Ref: D2380
Planning Ref: BN/64/26/PL

Dear Amber,

RE: HILL VIEW, EASTERGATE LANE, EASTERGATE PO20 3SJ

We write in response to the Arun District Council drainage consultee comments (10th July 2026) in relation to the above planning application. BP Civils is responding on the applicant's behalf, as their appointed civil engineering consultant, assisting in flood risk and drainage matters in respect of this application.

Comments, as before, relate specifically to Standard 3 of the National Standards for SuDS. This response seeks to address the points raised.

Responses are provided against the consultee's comments, following the same numbering as per the consultee response:

3.1 – The earlier response provided by BP Civils (dated 22nd June 2026) already addressed this point, confirming that the extents on site identified as being at risk of surface water flooding are localised low points and **not** a wider surface water flow route. It was confirmed that the surface water flood maps do not consider positive drainage features or the effects of infiltration. The maps are, essentially, a surface analysis comparing rainfall simulations and topography. As the site drains naturally, with infiltration occurring, ponding would not likely occur. The proposed development is to be served by a dedicated surface water drainage system which caters for the development as proven by the hydraulic calculations provided for the required storm simulations, climate change allowances and urban creep requirements. We therefore consider that this point has been addressed and have no further comment to make.

3.2 – As stated above, no overland flows routes are evident in view of the surface water flood risk maps, only localised low points on site are identified by these maps. The site currently drains naturally, with infiltration occurring, and through the infiltration testing undertaken on site – and accepted by the drainage consultee – infiltration is identified as a viable means of serving the site, post development. Land drainage is commonly introduced in areas where infiltration does not occur, usually where underlying soils possess poor drainage characteristics. That is not the case with this site.

3.3 – No further comment required, as the calculations provided are accepted by the drainage consultee.

3.4 – The output from the modelling software used does not confirm the slope of the permeable paving. This is not something that we have direct control over, therefore we cannot provide this information on the surface water drainage calculation sheets. Screenshots are provided in **Appendix A** from the design software which confirms the slope attributed to each section of permeable paving ('Surface Longitudinal Slope'). The base level of the permeable paving is variable, following the surface level with a fixed sub-base thickness. The base level of the permeable paving is therefore relative to the surface level. Sub-base thicknesses are identified on the drawing in the key, with corresponding hatch colouring to differentiate where sub-base thicknesses differ. Base levels of constant depth are not proposed, and therefore are not shown on the drainage layout. Drawing PL500 'Conceptual Levels' demonstrates proposed site levels. Additionally, as stated in our earlier response, the site is in a wider area which is considered flat, and as such, prevailing falls would not significantly impact upon storage volumes as would be the case on, for example, a steeply sloping site.

3.5 – Additional calculations are provided for the proposed root protection area construction areas. Dummy nodes have been used to demonstrate this, and do not form part of the proposed on site drainage system. The drainage plan is therefore unaffected. Calculations are provided in **Appendix B**. Our previous written response provided commentary in relation to the depth of stone comment raised by the drainage consultee, and we would refer you back to the earlier response which is still relevant.

It is noted that on Page 2 of the drainage consultee's response, the 'Assessment' comment states 'Insufficient' in relation to 5. Amenity, 6. Biodiversity and 7. Construction, Operation Maintenance, Decommissioning and Structural Integrity. The comments in relation to these standards, provided on Pages 4 and 5, raise no objection however, and no points to address. We therefore assume that the 'Assessment' should instead read 'Compliant'. Please refer to the Drainage Strategy Report (D2380/DS2.0) which contains headings in relation to each National Standard detailing the full proposals.

We trust that this additional response will assist in closing out the remaining points of concern.

As mentioned previously, we would welcome you to contact us directly to discuss any concerns that may remain in the interests of resolving any such points at the earliest opportunity, in an efficient manner. We would be disappointed if the application is determined, with a refusal, if this invitation is declined, in light of the two responses provided and offers to discuss the application with you.

Yours sincerely,



Stuart Burnett
Associate Director, BP Civils

APPENDIX A

Arun District Council
Hill View, Eastergate Lane, Eastergate
23rd June 2026

Arun District Council
Hill View, Eastergate Lane, Eastergate
23rd June 2026

PLOT 3 DRIVEWAY

Permeable Paving Properties

Kerb

Pavement

Soil/Bedding

Storage

Outlet

Levels

Cover Level

16.814m

Invert Level

16.384m

OK

Kerb and Surface

Kerb Height

0.025m

Surface Mannings N

0.02

Surface Longitudinal Slope

1.25%

Pavement

Thickness

0.08m

Porosity Ratio

0.2

Permeability Rate

400.0mm/hr

Permeability Safety Factor

1.0

Soil/Bedding

Thickness

0.05m

Porosity Ratio

0.4

Infiltration Rate

250.0mm/hr

Infiltration Safety Factor

1.0

Storage

Thickness

0.3m

Porosity Ratio

0.3

Infiltration Rate

0.0mm/hr

Infiltration Safety Factor

2.0

Outlet

Pipe Diameter

150.00mm

Offset

0.0m

Help

Cancel

PLOT 4 DRIVEWAY

Permeable Paving Properties

Kerb

Pavement

Soil/Bedding

Storage

Outlet

Levels

Cover Level 16.817m

Invert Level 16.387m

OK

Kerb and Surface

Kerb Height 0.025m

Surface Mannings N 0.02

Surface Longitudinal Slope 1.25%

Pavement

Thickness 0.08m

Permeability Rate 400.0mm/hr

Porosity Ratio 0.2

Permeability Safety Factor 1.0

Soil/Bedding

Thickness 0.05m

Infiltration Rate 250.0mm/hr

Porosity Ratio 0.4

Infiltration Safety Factor 1.0

Storage

Thickness 0.3m

Infiltration Rate 0.0mm/hr

Porosity Ratio 0.3

Infiltration Safety Factor 2.0

Outlet

Pipe Diameter 150.00mm

Offset 0.0m

Help

Cancel

PLOT 5 DRIVEWAY

Permeable Paving Properties

Labels: Kerb, Pavement, Soil/Bedding, Storage, Outlet

Levels

Cover Level 16.581m

Invert Level 16.151m

OK

Help

Cancel

Kerb and Surface

Kerb Height 0.125m

Surface Mannings N 0.02

Surface Longitudinal Slope 1.25%

Pavement

Thickness 0.08m

Permeability Rate 400.0mm/hr

Porosity Ratio 0.2

Permeability Safety Factor 1.0

Soil/Bedding

Thickness 0.05m

Infiltration Rate 250.0mm/hr

Porosity Ratio 0.4

Infiltration Safety Factor 1.0

Storage

Thickness 0.3m

Infiltration Rate 360.0mm/hr

Porosity Ratio 0.3

Infiltration Safety Factor 2.0

Outlet

Pipe Diameter 100.00mm

Offset 0.0m

Arun District Council
Hill View, Eastergate Lane, Eastergate
23rd June 2026

ROAD 1

Permeable Paving Properties

Labels: Kerb, Pavement, Soil/Bedding, Storage, Outlet

Levels

Cover Level 16.692m

Invert Level 15.962m

OK

Help

Cancel

Kerb and Surface

Kerb Height 0.025m

Surface Mannings N 0.02

Surface Longitudinal Slope 1.25%

Pavement

Thickness 0.08m

Porosity Ratio 0.2

Permeability Rate 400.0mm/hr

Permeability Safety Factor 1.0

Soil/Bedding

Thickness 0.05m

Porosity Ratio 0.4

Infiltration Rate 250.0mm/hr

Infiltration Safety Factor 1.0

Storage

Thickness 0.6m

Porosity Ratio 0.3

Infiltration Rate 0.0mm/hr

Infiltration Safety Factor 2.0

Outlet

Pipe Diameter 150.00mm

Offset 0.0m

ROAD 2

Permeable Paving Properties

Labels: Kerb, Pavement, Soil/Bedding, Storage, Outlet

Levels

Cover Level 16.611m

Invert Level 15.881m

OK

Help

Cancel

Kerb and Surface

Kerb Height 0.025m

Surface Mannings N 0.02

Surface Longitudinal Slope 1.25%

Pavement

Thickness 0.08m

Permeability Rate 400.0mm/hr

Porosity Ratio 0.2

Permeability Safety Factor 1.0

Soil/Bedding

Thickness 0.05m

Infiltration Rate 250.0mm/hr

Porosity Ratio 0.4

Infiltration Safety Factor 1.0

Storage

Thickness 0.6m

Infiltration Rate 36.0mm/hr

Porosity Ratio 0.3

Infiltration Safety Factor 3.0

Outlet

Pipe Diameter 150.00mm

Offset 0.0m

ROAD 3

Permeable Paving Properties

Kerb

Pavement

Soil/Bedding

Storage

Outlet

Levels

Cover Level 16.045m

Invert Level 15.315m

OK

Help

Cancel

Kerb and Surface

Kerb Height 0.025m

Surface Mannings N 0.02

Surface Longitudinal Slope 1.25%

Pavement

Thickness 0.08m

Porosity Ratio 0.2

Permeability Rate 400.0mm/hr

Permeability Safety Factor 1.0

Soil/Bedding

Thickness 0.05m

Porosity Ratio 0.4

Infiltration Rate 250.0mm/hr

Infiltration Safety Factor 1.0

Storage

Thickness 0.6m

Porosity Ratio 0.3

Infiltration Rate 36.0mm/hr

Infiltration Safety Factor 3.0

Outlet

Pipe Diameter 150.00mm

Offset 0.0m

Arun District Council
Hill View, Eastergate Lane, Eastergate
23rd June 2026

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APPENDIX B

ROOT PROTECTION AREA CALCULATIONS

Network Details

Manhole Schedule

Manhole	Catchment Area (ha)	Size (mm)	Type	CL (m)	IL (m)	Depth To Soffit (m)	Easting (m)	Northing (m)
Dummy Node 1	0.017	708x354	Unknown	17.060	16.730	0.180	494848.667	106019.038
Dummy Node 2	0.000	0	Unknown	17.040	16.683	0.207	494846.236	106012.434

Pipe Schedule

Pipe Number	US Manhole	US IL (m)	DS Manhole	DS IL (m)	Shape	Dimension (mm)	Length (m)	Gradient (1:x)	Roughness (mm)	US Depth To Soffit (m)	DS Depth To Soffit (m)
1.000	Dummy Node 1	16.730	Dummy Node 2	16.683	Circ	150	7.037	150	0.600	0.180	0.207

Permeable Paving Schedule

Permeable Paving	Assigned Manhole	Effective Storage Volume (m3)	CL (m)	IL (m)	Storage Infil Rate (m/hr)	Safety Factor	Easting (m)	Northing (m)
RPA Road Construction	Dummy Node 1	12.064	17.060	16.730	0.03600000	3.00	494841.344	106004.140

Outfall Details

Outfall Manhole Dummy Node 2 : Free Discharge

Flow Control Details

Simulation Settings

FEH2022 (point): Filename=FEH_Point_Descriptors_494846_106034_v5_0_1.xml

Summer (Cv: 1.00), Winter (Cv: 1.00)

Global Time of Entry: 5.0 mins

Durations (mins): 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080

Return Periods (yrs) + Climate Change: (1, +0%), (2, +0%), (10, +0%), (30, +0%), (30, +40%), (100, +0%), (100, +45%)

Manhole Flood Risk Freeboard: 0.300m

Simulated Rainfall Events

Storm	Average Intensity (mm/hr)	Runoff Continuity %	Flow Continuity %	Storm	Average Intensity (mm/hr)	Runoff Continuity %	Flow Continuity %
1Yr 15Min Winter	15.614	0.00	0.00	30Yr 720Min Winter	5.227	0.00	0.00
1Yr 15Min Summer	15.614	0.00	0.00	30Yr 960Min Summer	4.113	0.00	0.00
1Yr 30Min Winter	10.326	0.00	0.00	30Yr 960Min Winter	4.113	0.00	0.00
1Yr 30Min Summer	10.326	0.00	0.00	30Yr 1440Min Summer	2.943	0.00	0.00
1Yr 60Min Winter	6.614	0.00	0.00	30Yr 1440Min Winter	2.943	0.00	0.00
1Yr 60Min Summer	6.614	0.00	0.00	30Yr 2160Min Summer	2.120	0.00	0.00
1Yr 120Min Winter	5.316	0.00	0.00	30Yr 2160Min Winter	2.120	0.00	0.00
1Yr 120Min Summer	5.316	0.00	0.00	30Yr 2880Min Summer	1.689	0.00	0.00
1Yr 180Min Winter	4.504	0.00	0.00	30Yr 2880Min Winter	1.689	0.00	0.00
1Yr 180Min Summer	4.504	0.00	0.00	30Yr 4320Min Summer	1.248	0.00	0.00
1Yr 240Min Winter	3.749	0.00	0.00	30Yr 4320Min Winter	1.248	0.00	0.00
1Yr 240Min Summer	3.749	0.00	0.00	30Yr 5760Min Summer	1.024	0.00	0.00
1Yr 360Min Winter	2.915	0.00	0.00	30Yr 5760Min Winter	1.024	0.00	0.00
1Yr 360Min Summer	2.915	0.00	0.00	30Yr 7200Min Summer	0.887	0.00	0.00
1Yr 480Min Winter	2.423	0.00	0.00	30Yr 7200Min Winter	0.887	0.00	0.00
1Yr 480Min Summer	2.423	0.00	0.00	30Yr 8640Min Summer	0.794	0.00	0.00
1Yr 600Min Summer	2.070	0.00	0.00	30Yr 8640Min Winter	0.794	0.00	0.00
1Yr 600Min Winter	2.070	0.00	0.00	30Yr 10080Min Summer	0.726	0.00	0.00
1Yr 720Min Winter	1.808	0.00	0.00	30Yr 10080Min Winter	0.726	0.00	0.00
1Yr 720Min Summer	1.808	0.00	0.00	30Yr+40% 15Min Summer	115.400	0.00	0.00
1Yr 960Min Summer	1.463	0.00	0.00	30Yr+40% 15Min Winter	115.400	0.00	0.00
1Yr 960Min Winter	1.463	0.00	0.00	30Yr+40% 30Min Summer	76.723	0.00	0.00
1Yr 1440Min Summer	1.100	0.00	0.00	30Yr+40% 30Min Winter	76.723	0.00	0.00
1Yr 1440Min Winter	1.100	0.00	0.00	30Yr+40% 60Min Summer	48.813	0.00	0.00
1Yr 2160Min Summer	0.838	0.00	0.00	30Yr+40% 60Min Winter	48.813	0.00	0.00
1Yr 2160Min Winter	0.838	0.00	0.00	30Yr+40% 120Min Summer	29.821	0.00	0.00
1Yr 2880Min Winter	0.696	0.00	0.00	30Yr+40% 120Min Winter	29.821	0.00	0.00
1Yr 2880Min Summer	0.696	0.00	0.00	30Yr+40% 180Min Summer	22.101	0.00	0.00
1Yr 4320Min Summer	0.549	0.00	0.00	30Yr+40% 180Min Winter	22.101	0.00	0.00
1Yr 4320Min Winter	0.549	0.00	0.00	30Yr+40% 240Min Summer	17.734	0.00	0.00
1Yr 5760Min Summer	0.474	0.00	0.00	30Yr+40% 240Min Winter	17.734	0.00	0.00
1Yr 5760Min Winter	0.474	0.00	0.00	30Yr+40% 360Min Summer	12.872	0.00	0.00
1Yr 7200Min Winter	0.428	0.00	0.00	30Yr+40% 360Min Winter	12.872	0.00	0.00
1Yr 7200Min Summer	0.428	0.00	0.00	30Yr+40% 480Min Summer	10.214	0.00	0.00
1Yr 8640Min Summer	0.397	0.00	0.00	30Yr+40% 480Min Winter	10.214	0.00	0.00
1Yr 8640Min Winter	0.397	0.00	0.00	30Yr+40% 600Min Summer	8.511	0.00	0.00
1Yr 10080Min Winter	0.375	0.00	0.00	30Yr+40% 600Min Winter	8.511	0.00	0.00
1Yr 10080Min Summer	0.375	0.00	0.00	30Yr+40% 720Min Summer	7.317	0.00	0.00
2Yr 15Min Winter	32.749	0.00	0.00	30Yr+40% 720Min Winter	7.317	0.00	0.00
2Yr 15Min Summer	32.749	0.00	0.00	30Yr+40% 960Min Summer	5.758	0.00	0.00
2Yr 30Min Winter	21.400	0.00	0.00	30Yr+40% 960Min Winter	5.758	0.00	0.00
2Yr 30Min Summer	21.400	0.00	0.00	30Yr+40% 1440Min Summer	4.120	0.00	0.00
2Yr 60Min Summer	13.587	0.00	0.00	30Yr+40% 1440Min Winter	4.120	0.00	0.00
2Yr 60Min Winter	13.587	0.00	0.00	30Yr+40% 2160Min Summer	2.968	0.00	0.00
2Yr 120Min Summer	9.453	0.00	0.00	30Yr+40% 2160Min Winter	2.968	0.00	0.00
2Yr 120Min Winter	9.453	0.00	0.00	30Yr+40% 2880Min Summer	2.364	0.00	0.00
2Yr 180Min Summer	7.477	0.00	0.00	30Yr+40% 2880Min Winter	2.364	0.00	0.00
2Yr 180Min Winter	7.477	0.00	0.00	30Yr+40% 4320Min Summer	1.748	0.00	0.00
2Yr 240Min Winter	6.107	0.00	0.00	30Yr+40% 4320Min Winter	1.748	0.00	0.00
2Yr 240Min Summer	6.107	0.00	0.00	30Yr+40% 5760Min Summer	1.434	0.00	0.00
2Yr 360Min Summer	4.586	0.00	0.00	30Yr+40% 5760Min Winter	1.434	0.00	0.00
2Yr 360Min Winter	4.586	0.00	0.00	30Yr+40% 7200Min Summer	1.242	0.00	0.00
2Yr 480Min Summer	3.720	0.00	0.00	30Yr+40% 7200Min Winter	1.242	0.00	0.00
2Yr 480Min Winter	3.720	0.00	0.00	30Yr+40% 8640Min Summer	1.111	0.00	0.00

Simulated Rainfall Events

Storm	Average Intensity (mm/hr)	Runoff Continuity %	Flow Continuity %	Storm	Average Intensity (mm/hr)	Runoff Continuity %	Flow Continuity %
2Yr 600Min Summer	3.134	0.00	0.00	30Yr+40% 8640Min Winter	1.111	0.00	0.00
2Yr 600Min Winter	3.134	0.00	0.00	30Yr+40% 10080Min Summer	1.016	0.00	0.00
2Yr 720Min Winter	2.713	0.00	0.00	30Yr+40% 10080Min Winter	1.016	0.00	0.00
2Yr 720Min Summer	2.713	0.00	0.00	100Yr 15Min Summer	103.039	0.00	0.00
2Yr 960Min Summer	2.169	0.00	0.00	100Yr 15Min Winter	103.039	0.00	0.00
2Yr 960Min Winter	2.169	0.00	0.00	100Yr 30Min Summer	69.133	0.00	0.00
2Yr 1440Min Summer	1.591	0.00	0.00	100Yr 30Min Winter	69.133	0.00	0.00
2Yr 1440Min Winter	1.591	0.00	0.00	100Yr 60Min Summer	44.424	0.00	0.00
2Yr 2160Min Summer	1.178	0.00	0.00	100Yr 60Min Winter	44.424	0.00	0.00
2Yr 2160Min Winter	1.178	0.00	0.00	100Yr 120Min Summer	26.631	0.00	0.00
2Yr 2880Min Summer	0.962	0.00	0.00	100Yr 120Min Winter	26.631	0.00	0.00
2Yr 2880Min Winter	0.962	0.00	0.00	100Yr 180Min Summer	19.524	0.00	0.00
2Yr 4320Min Summer	0.740	0.00	0.00	100Yr 180Min Winter	19.524	0.00	0.00
2Yr 4320Min Winter	0.740	0.00	0.00	100Yr 240Min Summer	15.695	0.00	0.00
2Yr 5760Min Summer	0.627	0.00	0.00	100Yr 240Min Winter	15.695	0.00	0.00
2Yr 5760Min Winter	0.627	0.00	0.00	100Yr 360Min Summer	11.386	0.00	0.00
2Yr 7200Min Summer	0.558	0.00	0.00	100Yr 360Min Winter	11.386	0.00	0.00
2Yr 7200Min Winter	0.558	0.00	0.00	100Yr 480Min Summer	9.035	0.00	0.00
2Yr 8640Min Summer	0.510	0.00	0.00	100Yr 480Min Winter	9.035	0.00	0.00
2Yr 8640Min Winter	0.510	0.00	0.00	100Yr 600Min Summer	7.544	0.00	0.00
2Yr 10080Min Summer	0.475	0.00	0.00	100Yr 600Min Winter	7.544	0.00	0.00
2Yr 10080Min Winter	0.475	0.00	0.00	100Yr 720Min Summer	6.499	0.00	0.00
10Yr 15Min Summer	63.472	0.00	0.00	100Yr 720Min Winter	6.499	0.00	0.00
10Yr 15Min Winter	63.472	0.00	0.00	100Yr 960Min Summer	5.119	0.00	0.00
10Yr 30Min Summer	41.975	0.00	0.00	100Yr 960Min Winter	5.119	0.00	0.00
10Yr 30Min Winter	41.975	0.00	0.00	100Yr 1440Min Summer	3.659	0.00	0.00
10Yr 60Min Summer	26.518	0.00	0.00	100Yr 1440Min Winter	3.659	0.00	0.00
10Yr 60Min Winter	26.518	0.00	0.00	100Yr 2160Min Summer	2.624	0.00	0.00
10Yr 120Min Summer	16.678	0.00	0.00	100Yr 2160Min Winter	2.624	0.00	0.00
10Yr 120Min Winter	16.678	0.00	0.00	100Yr 2880Min Summer	2.074	0.00	0.00
10Yr 180Min Summer	12.547	0.00	0.00	100Yr 2880Min Winter	2.074	0.00	0.00
10Yr 180Min Winter	12.547	0.00	0.00	100Yr 4320Min Summer	1.512	0.00	0.00
10Yr 240Min Summer	10.114	0.00	0.00	100Yr 4320Min Winter	1.512	0.00	0.00
10Yr 240Min Winter	10.114	0.00	0.00	100Yr 5760Min Summer	1.226	0.00	0.00
10Yr 360Min Winter	7.394	0.00	0.00	100Yr 5760Min Winter	1.226	0.00	0.00
10Yr 360Min Summer	7.394	0.00	0.00	100Yr 7200Min Summer	1.051	0.00	0.00
10Yr 480Min Summer	5.892	0.00	0.00	100Yr 7200Min Winter	1.051	0.00	0.00
10Yr 480Min Winter	5.892	0.00	0.00	100Yr 8640Min Summer	0.933	0.00	0.00
10Yr 600Min Summer	4.919	0.00	0.00	100Yr 8640Min Winter	0.933	0.00	0.00
10Yr 600Min Winter	4.919	0.00	0.00	100Yr 10080Min Summer	0.846	0.00	0.00
10Yr 720Min Summer	4.233	0.00	0.00	100Yr 10080Min Winter	0.846	0.00	0.00
10Yr 720Min Winter	4.233	0.00	0.00	100Yr+45% 15Min Summer	149.406	0.00	0.00
10Yr 960Min Summer	3.341	0.00	0.00	100Yr+45% 15Min Winter	149.406	0.00	0.00
10Yr 960Min Winter	3.341	0.00	0.00	100Yr+45% 30Min Summer	100.242	0.00	0.00
10Yr 1440Min Winter	2.405	0.00	0.00	100Yr+45% 30Min Winter	100.242	0.00	0.00
10Yr 1440Min Summer	2.405	0.00	0.00	100Yr+45% 60Min Summer	64.415	0.00	0.00
10Yr 2160Min Summer	1.746	0.00	0.00	100Yr+45% 60Min Winter	64.415	0.00	0.00
10Yr 2160Min Winter	1.746	0.00	0.00	100Yr+45% 120Min Summer	38.616	0.00	0.00
10Yr 2880Min Summer	1.400	0.00	0.00	100Yr+45% 120Min Winter	38.616	0.00	0.00
10Yr 2880Min Winter	1.400	0.00	0.00	100Yr+45% 180Min Summer	28.310	0.00	0.00
10Yr 4320Min Summer	1.048	0.00	0.00	100Yr+45% 180Min Winter	28.310	0.00	0.00
10Yr 4320Min Winter	1.048	0.00	0.00	100Yr+45% 240Min Summer	22.758	0.00	0.00
10Yr 5760Min Summer	0.869	0.00	0.00	100Yr+45% 240Min Winter	22.758	0.00	0.00
10Yr 5760Min Winter	0.869	0.00	0.00	100Yr+45% 360Min Summer	16.509	0.00	0.00
10Yr 7200Min Summer	0.760	0.00	0.00	100Yr+45% 360Min Winter	16.509	0.00	0.00
10Yr 7200Min Winter	0.760	0.00	0.00	100Yr+45% 480Min Summer	13.100	0.00	0.00
10Yr 8640Min Summer	0.685	0.00	0.00	100Yr+45% 480Min Winter	13.100	0.00	0.00
10Yr 8640Min Winter	0.685	0.00	0.00	100Yr+45% 600Min Summer	10.939	0.00	0.00
10Yr 10080Min Summer	0.630	0.00	0.00	100Yr+45% 600Min Winter	10.939	0.00	0.00
10Yr 10080Min Winter	0.630	0.00	0.00	100Yr+45% 720Min Summer	9.424	0.00	0.00
30Yr 15Min Summer	82.428	0.00	0.00	100Yr+45% 720Min Winter	9.424	0.00	0.00
30Yr 15Min Winter	82.428	0.00	0.00	100Yr+45% 960Min Summer	7.423	0.00	0.00
30Yr 30Min Summer	54.802	0.00	0.00	100Yr+45% 960Min Winter	7.423	0.00	0.00
30Yr 30Min Winter	54.802	0.00	0.00	100Yr+45% 1440Min Summer	5.305	0.00	0.00
30Yr 60Min Summer	34.866	0.00	0.00	100Yr+45% 1440Min Winter	5.305	0.00	0.00
30Yr 60Min Winter	34.866	0.00	0.00	100Yr+45% 2160Min Summer	3.805	0.00	0.00
30Yr 120Min Summer	21.301	0.00	0.00	100Yr+45% 2160Min Winter	3.805	0.00	0.00
30Yr 120Min Winter	21.301	0.00	0.00	100Yr+45% 2880Min Summer	3.008	0.00	0.00

Simulated Rainfall Events

Storm	Average Intensity (mm/hr)	Runoff Continuity %	Flow Continuity %	Storm	Average Intensity (mm/hr)	Runoff Continuity %	Flow Continuity %
30Yr 180Min Summer	15.787	0.00	0.00	100Yr+45% 2880Min Winter	3.008	0.00	0.00
30Yr 180Min Winter	15.787	0.00	0.00	100Yr+45% 4320Min Summer	2.193	0.00	0.00
30Yr 240Min Summer	12.667	0.00	0.00	100Yr+45% 4320Min Winter	2.193	0.00	0.00
30Yr 240Min Winter	12.667	0.00	0.00	100Yr+45% 5760Min Summer	1.778	0.00	0.00
30Yr 360Min Summer	9.194	0.00	0.00	100Yr+45% 5760Min Winter	1.778	0.00	0.00
30Yr 360Min Winter	9.194	0.00	0.00	100Yr+45% 7200Min Summer	1.524	0.00	0.00
30Yr 480Min Summer	7.295	0.00	0.00	100Yr+45% 7200Min Winter	1.524	0.00	0.00
30Yr 480Min Winter	7.295	0.00	0.00	100Yr+45% 8640Min Summer	1.353	0.00	0.00
30Yr 600Min Summer	6.080	0.00	0.00	100Yr+45% 8640Min Winter	1.353	0.00	0.00
30Yr 600Min Winter	6.080	0.00	0.00	100Yr+45% 10080Min Winter	1.227	0.00	0.00
30Yr 720Min Summer	5.227	0.00	0.00	100Yr+45% 10080Min Summer	1.227	0.00	0.00

Simulation Results

Return Period (yrs) + Climate Change (%):
1yr+0%

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
Dummy Node 1	360 min Summer	212	16.742	0.012	0.181		OK
Dummy Node 2	360 min Summer	212	16.695	0.012	0.181		Outfall

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
1.000	360 min Summer	212	Dummy Node 1	Dummy Node 2	0.012	0.288	0.181	0.013	OK

Permeable Paving Storage

Permeable Paving	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Surface Runoff (m3)	Status
RPA Road Construction	360 min Summer	212	16.745	0.015	0.268			OK

Return Period (yrs) + Climate Change (%):

2yr+0%

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
Dummy Node 1	180 min Summer	111	16.748	0.017	0.423		OK
Dummy Node 2	180 min Summer	111	16.700	0.017	0.423		Outfall

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
1.000	180 min Summer	111	Dummy Node 1	Dummy Node 2	0.017	0.371	0.423	0.029	OK

Permeable Paving Storage

Permeable Paving	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Surface Runoff (m3)	Status
RPA Road Construction	180 min Summer	110	16.755	0.025	0.581			OK

Return Period (yrs) + Climate Change (%):

10yr+0%

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
Dummy Node 1	120 min Summer	75	16.757	0.027	0.995		OK
Dummy Node 2	120 min Summer	75	16.709	0.026	0.995		Outfall

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
1.000	120 min Summer	75	Dummy Node 1	Dummy Node 2	0.026	0.476	0.995	0.069	OK

Permeable Paving Storage

Permeable Paving	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Surface Runoff (m3)	Status
RPA Road Construction	120 min Summer	75	16.773	0.043	1.186			OK

Return Period (yrs) + Climate Change (%):

30yr+0%

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
Dummy Node 1	60 min Summer	42	16.763	0.033	1.504		OK
Dummy Node 2	60 min Summer	42	16.715	0.032	1.502		Outfall

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
1.000	60 min Summer	42	Dummy Node 1	Dummy Node 2	0.032	0.535	1.502	0.104	OK

Permeable Paving Storage

Permeable Paving	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Surface Runoff (m3)	Status
RPA Road Construction	60 min Summer	42	16.785	0.055	1.734			OK

Return Period (yrs) + Climate Change (%):

30yr+40%

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
Dummy Node 1	60 min Summer	45	16.772	0.042	2.452		OK
Dummy Node 2	60 min Summer	45	16.724	0.041	2.457		Outfall

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
1.000	60 min Summer	45	Dummy Node 1	Dummy Node 2	0.042	0.614	2.457	0.170	OK

Permeable Paving Storage

Permeable Paving	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Surface Runoff (m3)	Status
RPA Road Construction	60 min Summer	44	16.805	0.075	3.404			OK

Return Period (yrs) + Climate Change (%):

100yr+0%

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
Dummy Node 1	60 min Summer	44	16.770	0.040	2.164		OK
Dummy Node 2	60 min Summer	44	16.722	0.038	2.163		Outfall

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
1.000	60 min Summer	44	Dummy Node 1	Dummy Node 2	0.039	0.593	2.163	0.150	OK

Permeable Paving Storage

Permeable Paving	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Surface Runoff (m3)	Status
RPA Road Construction	60 min Summer	44	16.799	0.069	2.500			OK

Return Period (yrs) + Climate Change (%):

100yr+45%

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
Dummy Node 1	60 min Summer	44	16.781	0.051	3.487		OK
Dummy Node 2	60 min Summer	44	16.732	0.049	3.486		Outfall

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
1.000	60 min Summer	44	Dummy Node 1	Dummy Node 2	0.050	0.676	3.486	0.242	OK

Permeable Paving Storage

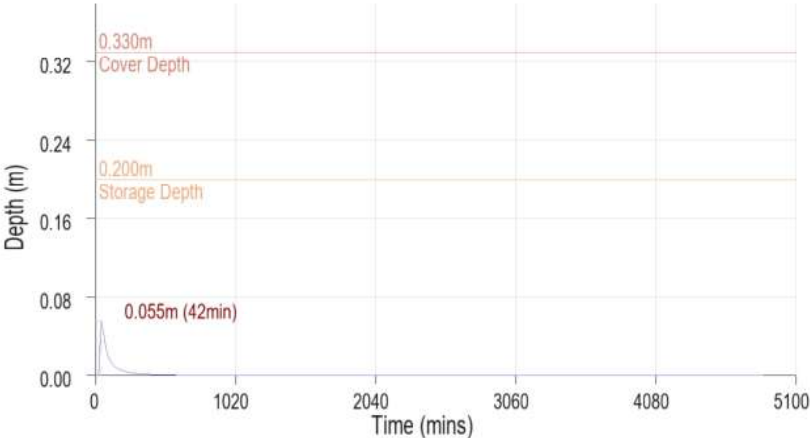
Permeable Paving	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Surface Runoff (m3)	Status
RPA Road Construction	60 min Summer	44	16.824	0.094	4.060			OK

Storage Curve

Show results for: 30Yr 60Min Summer

Export to CSV

RPA Road Construction assigned to Manhole Dummy Node 1 (30Yr 60M



OK

Network Details

Manhole Schedule

Manhole	Catchment Area (ha)	Size (mm)	Type	CL (m)	IL (m)	Depth To Soffit (m)	Easting (m)	Northing (m)
Dummy Node 3	0.023	708x354	Unknown	16.252	14.913	1.189	494781.189	105973.155
Dummy Node 4	0.000	0	Unknown	16.242	14.892	1.200	494782.509	105976.101

Pipe Schedule

Pipe Number	US Manhole	US IL (m)	DS Manhole	DS IL (m)	Shape	Dimension (mm)	Length (m)	Gradient (1:x)	Roughness (mm)	US Depth To Soffit (m)	DS Depth To Soffit (m)
1.000	Dummy Node 3	14.913	Dummy Node 4	14.892	Circ	150	3.228	150	0.600	1.189	1.200

Permeable Paving Schedule

Permeable Paving	Assigned Manhole	Effective Storage Volume (m3)	CL (m)	IL (m)	Storage Infil Rate (m/hr)	Safety Factor	Easting (m)	Northing (m)
RPA Road Construction 2	Dummy Node 3	16.390	16.252	15.922	0.03600000	3.00	494771.863	105948.998

Outfall Details

Outfall Manhole Dummy Node 4 : Free Discharge

Flow Control Details

Simulation Settings

FEH2022 (point): Filename=FEH_Point_Descriptors_494846_106034_v5_0_1.xml

Summer (Cv: 1.00), Winter (Cv: 1.00)

Global Time of Entry: 5.0 mins

Durations (mins): 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080

Return Periods (yrs) + Climate Change: (1, +0%), (2, +0%), (10, +0%), (30, +0%), (30, +40%), (100, +0%), (100, +45%)

Manhole Flood Risk Freeboard: 0.300m

Simulated Rainfall Events

Storm	Average Intensity (mm/hr)	Runoff Continuity %	Flow Continuity %	Storm	Average Intensity (mm/hr)	Runoff Continuity %	Flow Continuity %
1Yr 15Min Winter	15.614	0.00	0.00	30Yr 720Min Winter	5.227	0.00	0.00
1Yr 15Min Summer	15.614	0.00	0.00	30Yr 960Min Summer	4.113	0.00	0.00
1Yr 30Min Winter	10.326	0.00	0.00	30Yr 960Min Winter	4.113	0.00	0.00
1Yr 30Min Summer	10.326	0.00	0.00	30Yr 1440Min Summer	2.943	0.00	0.00
1Yr 60Min Winter	6.614	0.00	0.00	30Yr 1440Min Winter	2.943	0.00	0.00
1Yr 60Min Summer	6.614	0.00	0.00	30Yr 2160Min Summer	2.120	0.00	0.00
1Yr 120Min Winter	5.316	0.00	0.00	30Yr 2160Min Winter	2.120	0.00	0.00
1Yr 120Min Summer	5.316	0.00	0.00	30Yr 2880Min Summer	1.689	0.00	0.00
1Yr 180Min Winter	4.504	0.00	0.00	30Yr 2880Min Winter	1.689	0.00	0.00
1Yr 180Min Summer	4.504	0.00	0.00	30Yr 4320Min Summer	1.248	0.00	0.00
1Yr 240Min Winter	3.749	0.00	0.00	30Yr 4320Min Winter	1.248	0.00	0.00
1Yr 240Min Summer	3.749	0.00	0.00	30Yr 5760Min Summer	1.024	0.00	0.00
1Yr 360Min Winter	2.915	0.00	0.00	30Yr 5760Min Winter	1.024	0.00	0.00
1Yr 360Min Summer	2.915	0.00	0.00	30Yr 7200Min Summer	0.887	0.00	0.00
1Yr 480Min Winter	2.423	0.00	0.00	30Yr 7200Min Winter	0.887	0.00	0.00
1Yr 480Min Summer	2.423	0.00	0.00	30Yr 8640Min Summer	0.794	0.00	0.00
1Yr 600Min Summer	2.070	0.00	0.00	30Yr 8640Min Winter	0.794	0.00	0.00
1Yr 600Min Winter	2.070	0.00	0.00	30Yr 10080Min Summer	0.726	0.00	0.00
1Yr 720Min Winter	1.808	0.00	0.00	30Yr 10080Min Winter	0.726	0.00	0.00
1Yr 720Min Summer	1.808	0.00	0.00	30Yr+40% 15Min Summer	115.400	0.00	0.00
1Yr 960Min Summer	1.463	0.00	0.00	30Yr+40% 15Min Winter	115.400	0.00	0.00
1Yr 960Min Winter	1.463	0.00	0.00	30Yr+40% 30Min Summer	76.723	0.00	0.00
1Yr 1440Min Summer	1.100	0.00	0.00	30Yr+40% 30Min Winter	76.723	0.00	0.00
1Yr 1440Min Winter	1.100	0.00	0.00	30Yr+40% 60Min Summer	48.813	0.00	0.00
1Yr 2160Min Summer	0.838	0.00	0.00	30Yr+40% 60Min Winter	48.813	0.00	0.00
1Yr 2160Min Winter	0.838	0.00	0.00	30Yr+40% 120Min Summer	29.821	0.00	0.00
1Yr 2880Min Winter	0.696	0.00	0.00	30Yr+40% 120Min Winter	29.821	0.00	0.00
1Yr 2880Min Summer	0.696	0.00	0.00	30Yr+40% 180Min Summer	22.101	0.00	0.00
1Yr 4320Min Summer	0.549	0.00	0.00	30Yr+40% 180Min Winter	22.101	0.00	0.00
1Yr 4320Min Winter	0.549	0.00	0.00	30Yr+40% 240Min Summer	17.734	0.00	0.00
1Yr 5760Min Summer	0.474	0.00	0.00	30Yr+40% 240Min Winter	17.734	0.00	0.00
1Yr 5760Min Winter	0.474	0.00	0.00	30Yr+40% 360Min Summer	12.872	0.00	0.00
1Yr 7200Min Winter	0.428	0.00	0.00	30Yr+40% 360Min Winter	12.872	0.00	0.00
1Yr 7200Min Summer	0.428	0.00	0.00	30Yr+40% 480Min Summer	10.214	0.00	0.00
1Yr 8640Min Summer	0.397	0.00	0.00	30Yr+40% 480Min Winter	10.214	0.00	0.00
1Yr 8640Min Winter	0.397	0.00	0.00	30Yr+40% 600Min Summer	8.511	0.00	0.00
1Yr 10080Min Winter	0.375	0.00	0.00	30Yr+40% 600Min Winter	8.511	0.00	0.00
1Yr 10080Min Summer	0.375	0.00	0.00	30Yr+40% 720Min Summer	7.317	0.00	0.00
2Yr 15Min Winter	32.749	0.00	0.00	30Yr+40% 720Min Winter	7.317	0.00	0.00
2Yr 15Min Summer	32.749	0.00	0.00	30Yr+40% 960Min Summer	5.758	0.00	0.00
2Yr 30Min Winter	21.400	0.00	0.00	30Yr+40% 960Min Winter	5.758	0.00	0.00
2Yr 30Min Summer	21.400	0.00	0.00	30Yr+40% 1440Min Summer	4.120	0.00	0.00
2Yr 60Min Summer	13.587	0.00	0.00	30Yr+40% 1440Min Winter	4.120	0.00	0.00
2Yr 60Min Winter	13.587	0.00	0.00	30Yr+40% 2160Min Summer	2.968	0.00	0.00
2Yr 120Min Summer	9.453	0.00	0.00	30Yr+40% 2160Min Winter	2.968	0.00	0.00
2Yr 120Min Winter	9.453	0.00	0.00	30Yr+40% 2880Min Summer	2.364	0.00	0.00
2Yr 180Min Summer	7.477	0.00	0.00	30Yr+40% 2880Min Winter	2.364	0.00	0.00
2Yr 180Min Winter	7.477	0.00	0.00	30Yr+40% 4320Min Summer	1.748	0.00	0.00
2Yr 240Min Winter	6.107	0.00	0.00	30Yr+40% 4320Min Winter	1.748	0.00	0.00
2Yr 240Min Summer	6.107	0.00	0.00	30Yr+40% 5760Min Summer	1.434	0.00	0.00
2Yr 360Min Summer	4.586	0.00	0.00	30Yr+40% 5760Min Winter	1.434	0.00	0.00
2Yr 360Min Winter	4.586	0.00	0.00	30Yr+40% 7200Min Summer	1.242	0.00	0.00
2Yr 480Min Summer	3.720	0.00	0.00	30Yr+40% 7200Min Winter	1.242	0.00	0.00
2Yr 480Min Winter	3.720	0.00	0.00	30Yr+40% 8640Min Summer	1.111	0.00	0.00

Simulated Rainfall Events

Storm	Average Intensity (mm/hr)	Runoff Continuity %	Flow Continuity %	Storm	Average Intensity (mm/hr)	Runoff Continuity %	Flow Continuity %
2Yr 600Min Summer	3.134	0.00	0.00	30Yr+40% 8640Min Winter	1.111	0.00	0.00
2Yr 600Min Winter	3.134	0.00	0.00	30Yr+40% 10080Min Summer	1.016	0.00	0.00
2Yr 720Min Winter	2.713	0.00	0.00	30Yr+40% 10080Min Winter	1.016	0.00	0.00
2Yr 720Min Summer	2.713	0.00	0.00	100Yr 15Min Summer	103.039	0.00	0.00
2Yr 960Min Summer	2.169	0.00	0.00	100Yr 15Min Winter	103.039	0.00	0.00
2Yr 960Min Winter	2.169	0.00	0.00	100Yr 30Min Summer	69.133	0.00	0.00
2Yr 1440Min Summer	1.591	0.00	0.00	100Yr 30Min Winter	69.133	0.00	0.00
2Yr 1440Min Winter	1.591	0.00	0.00	100Yr 60Min Summer	44.424	0.00	0.00
2Yr 2160Min Summer	1.178	0.00	0.00	100Yr 60Min Winter	44.424	0.00	0.00
2Yr 2160Min Winter	1.178	0.00	0.00	100Yr 120Min Summer	26.631	0.00	0.00
2Yr 2880Min Summer	0.962	0.00	0.00	100Yr 120Min Winter	26.631	0.00	0.00
2Yr 2880Min Winter	0.962	0.00	0.00	100Yr 180Min Summer	19.524	0.00	0.00
2Yr 4320Min Summer	0.740	0.00	0.00	100Yr 180Min Winter	19.524	0.00	0.00
2Yr 4320Min Winter	0.740	0.00	0.00	100Yr 240Min Summer	15.695	0.00	0.00
2Yr 5760Min Summer	0.627	0.00	0.00	100Yr 240Min Winter	15.695	0.00	0.00
2Yr 5760Min Winter	0.627	0.00	0.00	100Yr 360Min Summer	11.386	0.00	0.00
2Yr 7200Min Summer	0.558	0.00	0.00	100Yr 360Min Winter	11.386	0.00	0.00
2Yr 7200Min Winter	0.558	0.00	0.00	100Yr 480Min Summer	9.035	0.00	0.00
2Yr 8640Min Summer	0.510	0.00	0.00	100Yr 480Min Winter	9.035	0.00	0.00
2Yr 8640Min Winter	0.510	0.00	0.00	100Yr 600Min Summer	7.544	0.00	0.00
2Yr 10080Min Summer	0.475	0.00	0.00	100Yr 600Min Winter	7.544	0.00	0.00
2Yr 10080Min Winter	0.475	0.00	0.00	100Yr 720Min Summer	6.499	0.00	0.00
10Yr 15Min Summer	63.472	0.00	0.00	100Yr 720Min Winter	6.499	0.00	0.00
10Yr 15Min Winter	63.472	0.00	0.00	100Yr 960Min Summer	5.119	0.00	0.00
10Yr 30Min Summer	41.975	0.00	0.00	100Yr 960Min Winter	5.119	0.00	0.00
10Yr 30Min Winter	41.975	0.00	0.00	100Yr 1440Min Summer	3.659	0.00	0.00
10Yr 60Min Summer	26.518	0.00	0.00	100Yr 1440Min Winter	3.659	0.00	0.00
10Yr 60Min Winter	26.518	0.00	0.00	100Yr 2160Min Summer	2.624	0.00	0.00
10Yr 120Min Summer	16.678	0.00	0.00	100Yr 2160Min Winter	2.624	0.00	0.00
10Yr 120Min Winter	16.678	0.00	0.00	100Yr 2880Min Summer	2.074	0.00	0.00
10Yr 180Min Summer	12.547	0.00	0.00	100Yr 2880Min Winter	2.074	0.00	0.00
10Yr 180Min Winter	12.547	0.00	0.00	100Yr 4320Min Summer	1.512	0.00	0.00
10Yr 240Min Summer	10.114	0.00	0.00	100Yr 4320Min Winter	1.512	0.00	0.00
10Yr 240Min Winter	10.114	0.00	0.00	100Yr 5760Min Summer	1.226	0.00	0.00
10Yr 360Min Winter	7.394	0.00	0.00	100Yr 5760Min Winter	1.226	0.00	0.00
10Yr 360Min Summer	7.394	0.00	0.00	100Yr 7200Min Summer	1.051	0.00	0.00
10Yr 480Min Summer	5.892	0.00	0.00	100Yr 7200Min Winter	1.051	0.00	0.00
10Yr 480Min Winter	5.892	0.00	0.00	100Yr 8640Min Summer	0.933	0.00	0.00
10Yr 600Min Summer	4.919	0.00	0.00	100Yr 8640Min Winter	0.933	0.00	0.00
10Yr 600Min Winter	4.919	0.00	0.00	100Yr 10080Min Summer	0.846	0.00	0.00
10Yr 720Min Summer	4.233	0.00	0.00	100Yr 10080Min Winter	0.846	0.00	0.00
10Yr 720Min Winter	4.233	0.00	0.00	100Yr+45% 15Min Summer	149.406	0.00	0.00
10Yr 960Min Summer	3.341	0.00	0.00	100Yr+45% 15Min Winter	149.406	0.00	0.00
10Yr 960Min Winter	3.341	0.00	0.00	100Yr+45% 30Min Summer	100.242	0.00	0.00
10Yr 1440Min Winter	2.405	0.00	0.00	100Yr+45% 30Min Winter	100.242	0.00	0.00
10Yr 1440Min Summer	2.405	0.00	0.00	100Yr+45% 60Min Summer	64.415	0.00	0.00
10Yr 2160Min Summer	1.746	0.00	0.00	100Yr+45% 60Min Winter	64.415	0.00	0.00
10Yr 2160Min Winter	1.746	0.00	0.00	100Yr+45% 120Min Summer	38.616	0.00	0.00
10Yr 2880Min Summer	1.400	0.00	0.00	100Yr+45% 120Min Winter	38.616	0.00	0.00
10Yr 2880Min Winter	1.400	0.00	0.00	100Yr+45% 180Min Summer	28.310	0.00	0.00
10Yr 4320Min Summer	1.048	0.00	0.00	100Yr+45% 180Min Winter	28.310	0.00	0.00
10Yr 4320Min Winter	1.048	0.00	0.00	100Yr+45% 240Min Summer	22.758	0.00	0.00
10Yr 5760Min Summer	0.869	0.00	0.00	100Yr+45% 240Min Winter	22.758	0.00	0.00
10Yr 5760Min Winter	0.869	0.00	0.00	100Yr+45% 360Min Summer	16.509	0.00	0.00
10Yr 7200Min Summer	0.760	0.00	0.00	100Yr+45% 360Min Winter	16.509	0.00	0.00
10Yr 7200Min Winter	0.760	0.00	0.00	100Yr+45% 480Min Summer	13.100	0.00	0.00
10Yr 8640Min Summer	0.685	0.00	0.00	100Yr+45% 480Min Winter	13.100	0.00	0.00
10Yr 8640Min Winter	0.685	0.00	0.00	100Yr+45% 600Min Summer	10.939	0.00	0.00
10Yr 10080Min Summer	0.630	0.00	0.00	100Yr+45% 600Min Winter	10.939	0.00	0.00
10Yr 10080Min Winter	0.630	0.00	0.00	100Yr+45% 720Min Summer	9.424	0.00	0.00
30Yr 15Min Summer	82.428	0.00	0.00	100Yr+45% 720Min Winter	9.424	0.00	0.00
30Yr 15Min Winter	82.428	0.00	0.00	100Yr+45% 960Min Summer	7.423	0.00	0.00
30Yr 30Min Summer	54.802	0.00	0.00	100Yr+45% 960Min Winter	7.423	0.00	0.00
30Yr 30Min Winter	54.802	0.00	0.00	100Yr+45% 1440Min Summer	5.305	0.00	0.00
30Yr 60Min Summer	34.866	0.00	0.00	100Yr+45% 1440Min Winter	5.305	0.00	0.00
30Yr 60Min Winter	34.866	0.00	0.00	100Yr+45% 2160Min Summer	3.805	0.00	0.00
30Yr 120Min Summer	21.301	0.00	0.00	100Yr+45% 2160Min Winter	3.805	0.00	0.00
30Yr 120Min Winter	21.301	0.00	0.00	100Yr+45% 2880Min Summer	3.008	0.00	0.00

Simulated Rainfall Events

Storm	Average Intensity (mm/hr)	Runoff Continuity %	Flow Continuity %	Storm	Average Intensity (mm/hr)	Runoff Continuity %	Flow Continuity %
30Yr 180Min Summer	15.787	0.00	0.00	100Yr+45% 2880Min Winter	3.008	0.00	0.00
30Yr 180Min Winter	15.787	0.00	0.00	100Yr+45% 4320Min Summer	2.193	0.00	0.00
30Yr 240Min Summer	12.667	0.00	0.00	100Yr+45% 4320Min Winter	2.193	0.00	0.00
30Yr 240Min Winter	12.667	0.00	0.00	100Yr+45% 5760Min Summer	1.778	0.00	0.00
30Yr 360Min Summer	9.194	0.00	0.00	100Yr+45% 5760Min Winter	1.778	0.00	0.00
30Yr 360Min Winter	9.194	0.00	0.00	100Yr+45% 7200Min Summer	1.524	0.00	0.00
30Yr 480Min Summer	7.295	0.00	0.00	100Yr+45% 7200Min Winter	1.524	0.00	0.00
30Yr 480Min Winter	7.295	0.00	0.00	100Yr+45% 8640Min Summer	1.353	0.00	0.00
30Yr 600Min Summer	6.080	0.00	0.00	100Yr+45% 8640Min Winter	1.353	0.00	0.00
30Yr 600Min Winter	6.080	0.00	0.00	100Yr+45% 10080Min Winter	1.227	0.00	0.00
30Yr 720Min Summer	5.227	0.00	0.00	100Yr+45% 10080Min Summer	1.227	0.00	0.00

Simulation Results

Return Period (yrs) + Climate Change (%):
1yr+0%

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
Dummy Node 3	360 min Summer	211	14.927	0.014	0.262		OK
Dummy Node 4	360 min Summer	211	14.905	0.013	0.262		Outfall

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
1.000	360 min Summer	211	Dummy Node 3	Dummy Node 4	0.014	0.327	0.262	0.018	OK

Permeable Paving Storage

Permeable Paving	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Surface Runoff (m3)	Status
RPA Road Construction 2	360 min Summer	211	15.937	0.015	0.365			OK

Return Period (yrs) + Climate Change (%):

2yr+0%

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
Dummy Node 3	180 min Summer	111	14.934	0.020	0.579		OK
Dummy Node 4	180 min Summer	111	14.911	0.020	0.579		Outfall

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
1.000	180 min Summer	111	Dummy Node 3	Dummy Node 4	0.020	0.411	0.579	0.040	OK

Permeable Paving Storage

Permeable Paving	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Surface Runoff (m3)	Status
RPA Road Construction 2	180 min Summer	110	15.947	0.025	0.801			OK

Return Period (yrs) + Climate Change (%):

10yr+0%

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
Dummy Node 3	120 min Summer	75	14.944	0.031	1.302		OK
Dummy Node 4	120 min Summer	75	14.921	0.029	1.302		Outfall

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
1.000	120 min Summer	75	Dummy Node 3	Dummy Node 4	0.030	0.519	1.302	0.090	OK

Permeable Paving Storage

Permeable Paving	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Surface Runoff (m3)	Status
RPA Road Construction 2	120 min Summer	75	15.965	0.043	1.609			OK

Return Period (yrs) + Climate Change (%):

30yr+0%

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
Dummy Node 3	60 min Summer	42	14.951	0.037	1.925		OK
Dummy Node 4	60 min Summer	42	14.927	0.036	1.923		Outfall

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
1.000	60 min Summer	42	Dummy Node 3	Dummy Node 4	0.036	0.578	1.923	0.133	OK

Permeable Paving Storage

Permeable Paving	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Surface Runoff (m3)	Status
RPA Road Construction 2	60 min Summer	42	15.978	0.055	2.242			OK

Return Period (yrs) + Climate Change (%):

30yr+40%

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
Dummy Node 3	60 min Summer	45	14.961	0.048	3.111		OK
Dummy Node 4	60 min Summer	45	14.937	0.046	3.116		Outfall

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
1.000	60 min Summer	45	Dummy Node 3	Dummy Node 4	0.047	0.660	3.116	0.216	OK

Permeable Paving Storage

Permeable Paving	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Surface Runoff (m3)	Status
RPA Road Construction 2	60 min Summer	44	15.999	0.076	4.612			OK

Return Period (yrs) + Climate Change (%):

100yr+0%

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
Dummy Node 3	60 min Summer	44	14.958	0.045	2.746		OK
Dummy Node 4	60 min Summer	44	14.934	0.043	2.745		Outfall

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
1.000	60 min Summer	44	Dummy Node 3	Dummy Node 4	0.044	0.638	2.745	0.190	OK

Permeable Paving Storage

Permeable Paving	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Surface Runoff (m3)	Status
RPA Road Construction 2	60 min Summer	44	15.992	0.070	3.131			OK

Return Period (yrs) + Climate Change (%):

100yr+45%

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
Dummy Node 3	60 min Summer	45	14.971	0.058	4.409		OK
Dummy Node 4	60 min Summer	45	14.946	0.055	4.410		Outfall

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
1.000	60 min Summer	45	Dummy Node 3	Dummy Node 4	0.056	0.725	4.410	0.306	OK

Permeable Paving Storage

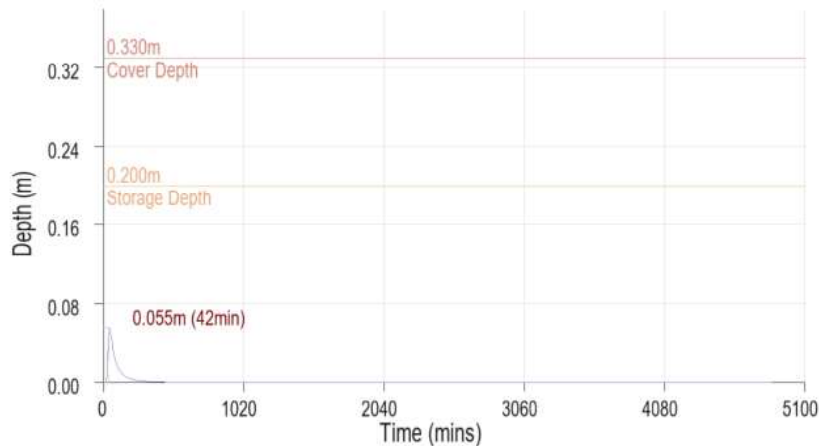
Permeable Paving	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Surface Runoff (m3)	Status
RPA Road Construction 2	60 min Summer	45	16.018	0.096	5.075			OK

Storage Curve

Show results for: 30Yr 60Min Summer

Export to CSV

RPA Road Construction 2 assigned to Manhole Dummy Node 3 (30Yr 60Min Summer)



OK