

PROJECT	DATE	BY	REFERENCE
5029426 – Land west of Gatesmead Ave	01/07/2026	SS	5029426-RDG- XX-ST-T-C-112601
TITLE			REV
Land West of Gatesmead Ave LLFA Response			P01

1. INTRODUCTION

Ridge have been appointed by Crest Nicholson for a proposed development at the land West of Gatesmead Ave, Hayward Heath.

This Technical Note provides a summary of how the West Sussex County Council (WSCC) LLFA comments have been addressed within the updated drainage strategy.

A copy of the latest calculations and updated drainage layout has been provided within Appendix A of this technical Note

The document must be read in conjunction with the detailed drainage strategy report: **5029426-RDG-XX-XX-T-C-309950 rev (P04).**,

2. WSCC LLFA COMMENTS AND OBJECTIONS

- 1- The LLFA notes some testing has been completed however not to BRE 365 and in line with discharge hierarchy and infiltration has insufficient evidence to be ruled out. The scheme is required to also consider Reuse (Rainwater Harvesting?) prior to this.**

Infiltration testing in accordance with BRE 365 were carried out by Ridge and Partners LLP on the 17/18 of July 2025. The test show that infiltration was not possible and therefore the use of infiltration-based SuDS features (e.g. soakaways, infiltration basins or permeable paving) is not feasible for this scheme. Please refer to the infiltration test in appendix C of document 5029426-RDG-XX-XX-T-C-309950. SuDS Pods and water butts will be included in the scheme to equated for the reuse of rainwater.

- 2- The drainage layouts are shown as 'For information'. Whilst we appreciate that construction drawings cannot be provided at this stage, they should be confirmed at sufficient level of detailed design.**

The drawing status has been changed to "S5-for Review and Acceptance". Please find the updated drawing attached in Appendix A of this technical note.

- 3- Submission of hydraulic calculations have not used current parameters of FEH22, CV value of 1 and urban creep 10% allowance is required. The current calculation utilises old rainfall data and parameters.**

The Model has been updated with FEH22 data, in addition to the urban creep allowance of 10% please refer to page 40/75 in the updated calculations pack attached in appendix A of this technical note.

4- Flood risk, surcharging is currently showing the 1 in 30 and 1 in 100.

The flood risk for the 1 in 30-year event has been eliminated, with only minor surcharging now observed, which is considered acceptable. This surcharging is attributed to the flow control device, which restricts discharge and causes temporary water backing up within the system. Please refer to the updated calculation pack provided in Appendix A of this Technical Note for further details.

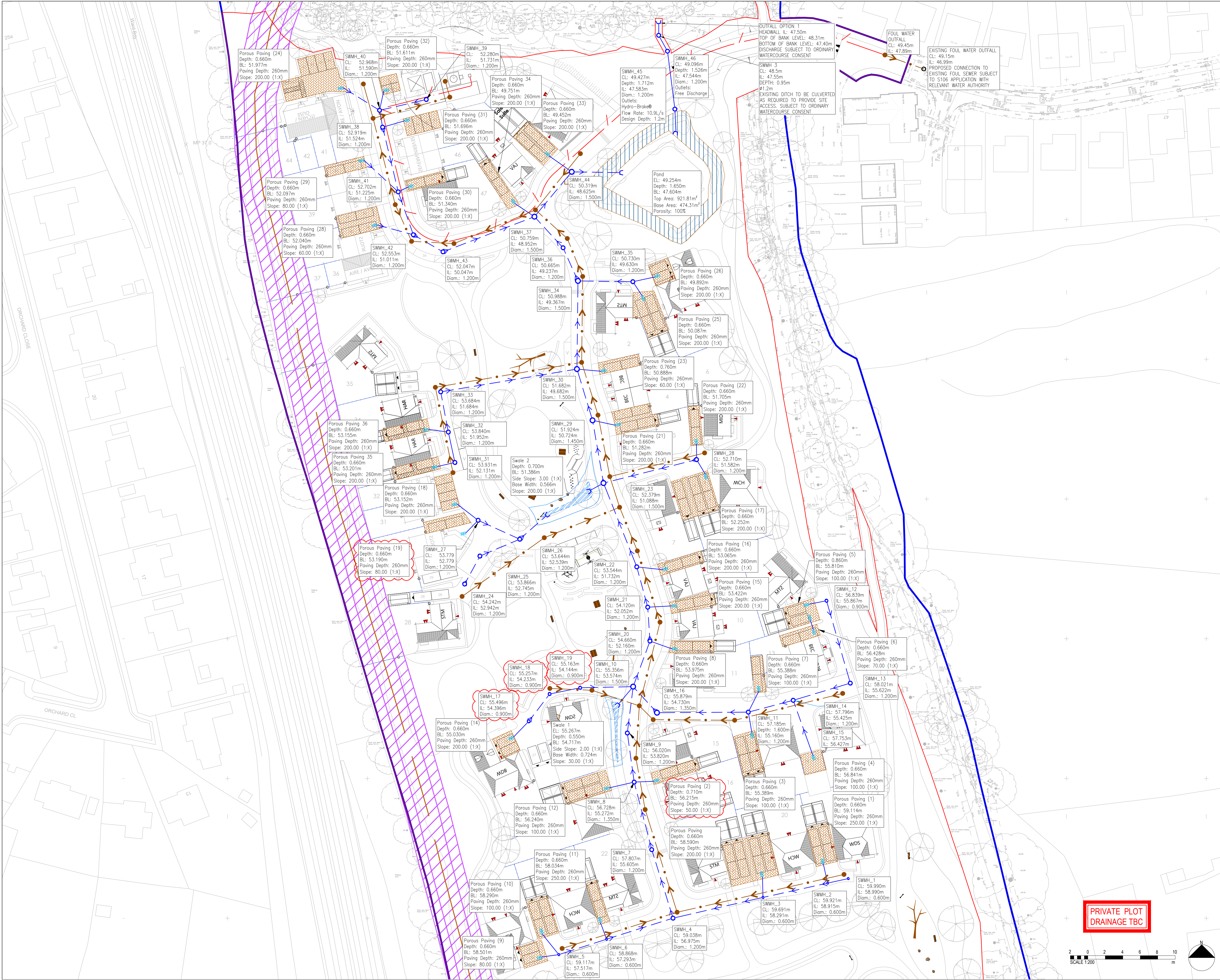
5- Climate Change Allowances should be 45%.

please refer to page 40/75 in the updated calculations pack attached in appendix A of this technical note.

APPENDIX A

UPDATED CALCULATIONS

PACK AND DRAINAGE LAYOUT



DISCLAIMER NOTES:

- THIS DOCUMENT IS COPYRIGHT OF THE ORIGINATOR AND MUST BE TREATED AS CONFIDENTIAL.
- THIS DOCUMENT MUST NOT BE ALTERED, REPRODUCED OR DISTRIBUTED WITHOUT PRIOR WRITTEN CONSENT OF THE ORIGINATOR
- THIS DOCUMENT MUST NOT BE ALTERED - THE ORIGINATOR ACCEPTS NO RESPONSIBILITY FOR ANY DISCREPANCIES ARISING AS A RESULT OF THE ORIGINATOR'S INFORMATION BEING ALTERED BY OTHERS
- ANY DISCREPANCY MUST BE REPORTED TO THE ORIGINATOR
- DO NOT SCALE THIS DOCUMENT - USE FIGURED DIMENSIONS ONLY
- ALL DIMENSIONS MUST BE CHECKED ON SITE PRIOR TO COMMENCEMENT OF ANY RELATED WORKS
- THIS DOCUMENT MUST BE READ IN CONJUNCTION WITH ALL SUPPORTING DOCUMENTS PRODUCED BY THE ORIGINATOR AND OTHER PROJECT DISCIPLINES
- THE ORIGINATOR ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF BACKGROUND INFORMATION PRODUCED BY THIRD PARTIES - THIS MUST BE TREATED AS INDICATIVE ONLY
- USERS OF THIS DOCUMENT ARE RESPONSIBLE FOR CHECKING WHICH REVISION IS CURRENT
- THE DOCUMENT STATUS "INFORMATION" OR "PRELIMINARY" INDICATES THAT THIS DRAWING IS FOR REFERENCE PURPOSES ONLY - THE ORIGINATOR WILL ACCEPT NO RESPONSIBILITY FOR THE COMPLETENESS OF INFORMATION UNDER THIS STATUS
- THE DOCUMENT STATUS "RECORD" OR "AS BUILT" HAS BEEN PREPARED, IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THE ORIGINATOR ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THIS "RECORD" OR "AS BUILT" DOCUMENT OR FOR ANY ERRORS OR OMISSIONS THAT MAY HAVE BEEN INCORPORATED INTO IT AS A RESULT OF INCORRECT INFORMATION PROVIDED TO THE ORIGINATOR. THOSE RELYING ON THE "RECORD" OR "AS BUILT" DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY

DRAWING NOTES:

CDM REGULATIONS 2015
SIGNIFICANT OR NON-OBVIOUS RISKS AND RISKS WHICH ARE DIFFICULT TO MANAGE ARE IDENTIFIED ON THIS DRAWING USING THE FOLLOWING SYMBOL IDENTIFIED TO THE RIGHT WITH BRIEF ACCOMPANYING TEXT. FOR FURTHER DETAILS OF THE RISKS IDENTIFIED BY DESIGNERS, REFERENCE SHOULD BE MADE TO CDM HAZARD REGISTER

EXTERNAL REFERENCES:
THIS INFORMATION & RIDGE & PARTNERS LLP CIVIL 3D & ASSOCIATED 3D OUTPUTS ARE BASED UPON THE FOLLOWING INFORMATION FROM THE DESIGN TEAM

LANDSCAPE REFERENCE:
• PAD DESIGN DRG No. 25714/33101 (DATED MARCH 2026)

SURVEY REFERENCE:
• HOOK SURVEYS LTD. DWG No. 525/1048801 - 06 (DATED JULY 2025)
IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THIS INFORMATION IS CURRENT PRIOR TO CONSTRUCTION

LEGEND

	SITE BOUNDARY
	PROPOSED PRIVATE FOUL DRAIN
	PROPOSED PRIVATE S.W. DRAIN
	PROPOSED FOUL RISING MAIN
	EXISTING MANHOLE / GULLY
	PROPOSED 1200mm MANHOLE
	PROPOSED MANHOLE WITH BACKDROP
	PROPOSED PERMEABLE PAVING
	PROPOSED HEADWALL
	PROPOSED DIFFUSER UNIT

P04	IL, DEPTH, BL & PAVING DEPTH AMENDED	01.07.2026	JF	TC
P03	RED LINE BOUNDARY UPDATED	14.05.2026	SS	TC
P02	UPDATED TO LATEST ARCHITECTURAL PLAN	29.04.2026	SS	TC
P01	INITIAL ISSUE	10.04.2026	PJ	TC
REV	DESCRIPTION	DATE	BY	CHKD
ORIGINATOR: www.ridge.co.uk				



PROJECT NUMBER: 5029426

CLIENT: CREST NICHOLSON

IN ASSOCIATION WITH:

PROJECT: LAND WEST OF GATESMEAD

TITLE: DRAINAGE LAYOUT PLAN

DRAWN BY: SS CHECKED BY: APPROVED BY:

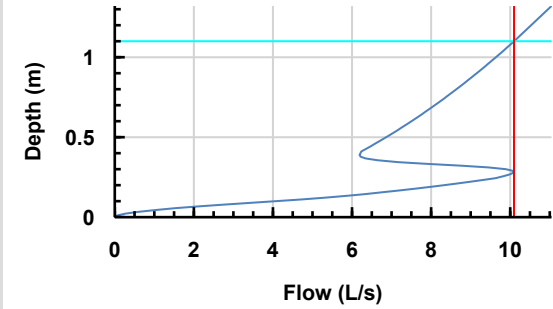
SCALE: 1:200 @ A1 DATE: 22/01/2026

STATUS: DESCRIPTION: SS FOR APPOINTING PARTY REVIEW & ACCEPTANCE

DRAWING No: 5029426-RDG-XX-XX-D-C-110500

PROJECT: ORG: FUNCTION: SPATIAL: FORM: DISCIPLINE: NUMBER: REV: 5029426 RDG XX D C 110500 P04

Outlets

Junction	Outlet Name	Outgoing Connection	Outlet Type
SWMH 5	Outlet	SW 4.001	Free Discharge
SWMH 4	Outlet	SW 1.003	Free Discharge
SWMH 7	Outlet	SW 1.004	Free Discharge
SWMH 9	Outlet	SW 1.006	Free Discharge
SWMH 10	Outlet	SW 1.007	Free Discharge
SWMH 20	Outlet	SW 1.008	Free Discharge
SWMH 22	Outlet	SW 1.010	Free Discharge
SWMH 23	Outlet	SW 1.011	Free Discharge
SWMH 29	Outlet	SW 1.012	Free Discharge
SWMH 30	Outlet	SW 1.013	Free Discharge
SWMH 34	Outlet	SW 1.014	Free Discharge
SWMH 36	Outlet	SW 1.015	Free Discharge
SWMH 37	Outlet	SW 1.016	Free Discharge
SWMH 44	Outlet	SW 1.017	Free Discharge
SWMH 13	Outlet	SW 10.003	Free Discharge
SWMH 11	Outlet	SW 9.001	Free Discharge
SWMH 16	Outlet	SW 9.002	Free Discharge
SWMH 1	Outlet	SW 1.000	Free Discharge
SWMH 3	Outlet	SW 1.002	Free Discharge
SWMH 17	Outlet	SW 13.001	Free Discharge
SWMH 18	Outlet	SW 13.002	Free Discharge
SWMH 19	Outlet	SW 13.003	Free Discharge
SWMH 31	Outlet	SW 24.001	Free Discharge
SWMH 33	Outlet	SW 24.003	Free Discharge
SWMH 38	Outlet	SW 29.001	Free Discharge
SWMH 42	Outlet	SW 29.003	Free Discharge
SWMH 43	Outlet	SW 29.004	Free Discharge
SWMH 28	Outlet	SW 21.001	Free Discharge
SWMH 24	Outlet	SW 18.000	Free Discharge
SWMH 25	Outlet	SW 18.001	Free Discharge
SWMH 26	Outlet	SW 18.002	Free Discharge
SWMH_45	Outlet	SW 1.019	Hydro-Brake®
	Invert Level (m)	47.583	
	Design Depth (m)	1.100	
	Design Flow (L/s)	10.1	
	Objective	Minimise Upstream Storage Requirements	
	Application	Surface Water Only	
	Sump Available	☐	
	Unit Reference	CHE-0137-1010-1100-1010	
			
SWMH 46	Outlet	SW 1.020	Free Discharge
SWMH 12	Outlet	SW 10.002	Free Discharge
SWMH 41	Outlet	SW 29.002	Free Discharge
SWMH 35	Outlet	SW 27.001	Free Discharge
SWMH 21	Outlet	SW 1.009	Free Discharge
SWMH_14	Outlet	SW_10.004	Free Discharge

Land West off Gatesmead Avenue :		Date: 25/06/2026			RIDGE	
		Designed by: SS		Checked by: TC		Approved By:
		Ridge and Partners LLP:				
Report Details: Type: Junctions Storm Phase: Phase						

Junction	Outlet Name	Outgoing Connection	Outlet Type
SWMH_6	Outlet	SW_4.002	Free Discharge
SWMH_2	Outlet	SW_1.001	Free Discharge
SWMH_8	Outlet	SW_1.005	Free Discharge
SWMH_32	Outlet	SW_24.002	Free Discharge
SWMH_27	Outlet	SW_19.001	Free Discharge
SWMH_15	Outlet	SW_11.001	Free Discharge
SWMH_40	Outlet	SW_30.001	Free Discharge
SWMH_39	Outlet	SW_30.000	Free Discharge

Land West off Gatesmead Avenue :	Date: 25/06/2026			RIDGE
	Designed by: SS	Checked by: TC	Approved By:	
	Ridge and Partners LLP:			
Report Details: Type: Stormwater Controls Storm Phase: Phase				



Type : Pond

Dimensions

Exceedance Level (m)	49.254
Depth (m)	1.650
Base Level (m)	47.604
Freeboard (mm)	300
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	2.935
Total Volume (m³)	868.967

Depth (m)	Area (m²)	Volume (m³)
0.000	474.31	0.000
1.650	921.81	1131.541

Inlets

Inlet

Inlet Type	Lateral Inflow
Incoming Item(s)	Catchment Area (6)
Bypass Destination	(None)
Capacity Type	No Restriction

Inlet (1)

Inlet Type	Point Inflow
Incoming Item(s)	SW_1.017
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

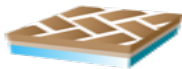
Outlet (1)

Outgoing Connection	SW_1.018
Outlet Type	Free Discharge

Advanced

Base Infiltration Rate (m/hr)	0.0
Safety Factor	2.0
Perimeter	Circular
Length (m)	43.614
Friction Scheme	Manning's n
n	0.25

Land West off Gatesmead Avenue :	Date: 25/06/2026			RIDGE
	Designed by: SS	Checked by: TC	Approved By:	
	Ridge and Partners LLP:			
Report Details: Type: Stormwater Controls Storm Phase: Phase				



Porous Paving

Type : Porous Paving

Dimensions		
Exceedance Level (m)		59.250
Depth (m)		0.660
Base Level (m)		58.590
Paving Layer Depth (mm)		260
Membrane Percolation (m/hr)		360.0
Porosity (%)		30
Length (m)		12.457
Long. Slope (1:X)		200.00
Width (m)		13.879
Total Volume (m³)		20.746

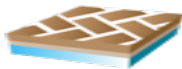
Inlets		
Inlet		
Inlet Type	Lateral Inflow	
Incoming Item(s)	Catchment Area (99)	
Bypass Destination	(None)	
Capacity Type	No Restriction	

Outlets		
Outlet		
Outgoing Connection	SW_3.000	
Outlet Type	Orifice	
Diameter (m)		0.010
Coefficient of Discharge		0.600
Invert Level (m)		59.015

Advanced		
Conductivity (m/hr)		5.0

Land West off Gatesmead Avenue :	Date: 25/06/2026			RIDGE
	Designed by: SS	Checked by: TC	Approved By:	
	Ridge and Partners LLP:			

Report Details:
Type: Stormwater Controls
Storm Phase: Phase



Porous Paving (1)

Type : Porous Paving

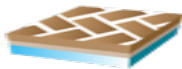
Dimensions		
Exceedance Level (m)		59.774
Depth (m)		0.660
Base Level (m)		59.114
Paving Layer Depth (mm)		260
Membrane Percolation (m/hr)		360.0
Porosity (%)		30
Length (m)		11.244
Long. Slope (1:X)		250.00
Width (m)		6.299
Total Volume (m³)		8.498

Inlets		
Inlet		
Inlet Type	Lateral Inflow	
Incoming Item(s)	Catchment Area (100)	
Bypass Destination	(None)	
Capacity Type	No Restriction	

Outlets		
Outlet		
Outgoing Connection	SW_2.000	
Outlet Type	Orifice	
Diameter (m)		0.010
Coefficient of Discharge		0.600
Invert Level (m)		59.114

Advanced		
Conductivity (m/hr)		5.0

Land West off Gatesmead Avenue :	Date: 25/06/2026			RIDGE
	Designed by: SS	Checked by: TC	Approved By:	
	Ridge and Partners LLP:			
Report Details: Type: Stormwater Controls Storm Phase: Phase				



Porous Paving (2)

Type : Porous Paving

Dimensions		
Exceedance Level (m)		56.925
Depth (m)		0.710
Base Level (m)		56.215
Paving Layer Depth (mm)		260
Membrane Percolation (m/hr)		360.0
Porosity (%)		30
Length (m)		14.058
Long. Slope (1:X)		50.00
Width (m)		3.292
Total Volume (m³)		6.248

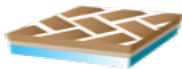
Inlets		
Inlet		
Inlet Type	Point Inflow	
Incoming Item(s)	Catchment Area (126)	
Bypass Destination	(None)	
Capacity Type	No Restriction	

Outlets		
Outlet		
Outgoing Connection	SW_7.000	
Outlet Type	Free Discharge	

Advanced		
Conductivity (m/hr)		500.0

Land West off Gatesmead Avenue :	Date: 25/06/2026			RIDGE
	Designed by: SS	Checked by: TC	Approved By:	
	Ridge and Partners LLP:			

Report Details:
Type: Stormwater Controls
Storm Phase: Phase



Porous Paving (3)

Type : Porous Paving

Dimensions		
Exceedance Level (m)		57.250
Depth (m)		0.660
Base Level (m)		56.590
Paving Layer Depth (mm)		260
Membrane Percolation (m/hr)		360.0
Porosity (%)		30
Length (m)		13.732
Long. Slope (1:X)		100.00
Width (m)		5.575
Total Volume (m³)		9.187

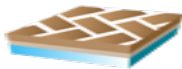
Inlets		
Inlet		
Inlet Type	Lateral Inflow	
Incoming Item(s)	Catchment Area (124)	
Bypass Destination	(None)	
Capacity Type	No Restriction	

Outlets		
Outlet		
Outgoing Connection	SW_12.000	
Outlet Type	Orifice	
Diameter (m)		0.017
Coefficient of Discharge		0.600
Invert Level (m)		56.590

Advanced		
Conductivity (m/hr)		5.0

Land West off Gatesmead Avenue :	Date: 25/06/2026			RIDGE
	Designed by: SS	Checked by: TC	Approved By:	
	Ridge and Partners LLP:			

Report Details:
Type: Stormwater Controls
Storm Phase: Phase



Porous Paving (4)

Type : Porous Paving

Dimensions		
Exceedance Level (m)		57.501
Depth (m)		0.660
Base Level (m)		56.841
Paving Layer Depth (mm)		260
Membrane Percolation (m/hr)		360.0
Porosity (%)		30
Length (m)		5.871
Long. Slope (1:X)		100.00
Width (m)		6.262
Total Volume (m³)		4.412

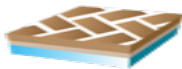
Inlets		
Inlet (1)		
Inlet Type	Point Inflow	
Incoming Item(s)	Catchment Area (18)	
Bypass Destination	(None)	
Capacity Type	No Restriction	

Outlets		
Outlet		
Outgoing Connection	SW_11.000	
Outlet Type	Orifice	
Diameter (m)		0.017
Coefficient of Discharge		0.600
Invert Level (m)		56.841

Advanced		
Conductivity (m/hr)		5.0

Land West off Gatesmead Avenue :	Date: 25/06/2026			RIDGE
	Designed by: SS	Checked by: TC	Approved By:	
	Ridge and Partners LLP:			

Report Details:
Type: Stormwater Controls
Storm Phase: Phase



Porous Paving (5)

Type : Porous Paving

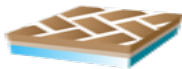
Dimensions		
Exceedance Level (m)		56.800
Depth (m)		0.860
Base Level (m)		55.940
Paving Layer Depth (mm)		260
Membrane Percolation (m/hr)		360.0
Porosity (%)		30
Length (m)		9.055
Long. Slope (1:X)		100.00
Width (m)		6.371
Total Volume (m³)		10.384

Inlets	
Inlet	
Inlet Type	Lateral Inflow
Incoming Item(s)	Catchment Area (107)
Bypass Destination	(None)
Capacity Type	No Restriction
Inlet (2)	
Inlet Type	Point Inflow
Incoming Item(s)	SW_10.000
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets	
Outlet	
Outgoing Connection	SW_10.001
Outlet Type	Orifice
Diameter (m)	0.010
Coefficient of Discharge	0.600
Invert Level (m)	55.940

Advanced	
Conductivity (m/hr)	5.0

Land West off Gatesmead Avenue :	Date: 25/06/2026			RIDGE
	Designed by: SS	Checked by: TC	Approved By:	
	Ridge and Partners LLP:			
Report Details: Type: Stormwater Controls Storm Phase: Phase				



Porous Paving (6)

Type : Porous Paving

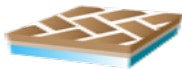
Dimensions		
Exceedance Level (m)		57.088
Depth (m)		0.660
Base Level (m)		56.428
Paving Layer Depth (mm)		260
Membrane Percolation (m/hr)		360.0
Porosity (%)		30
Length (m)		11.181
Long. Slope (1:X)		70.00
Width (m)		3.304
Total Volume (m³)		4.434

Inlets		
Inlet		
Inlet Type	Lateral Inflow	
Incoming Item(s)	Catchment Area (106)	
Bypass Destination	(None)	
Capacity Type	No Restriction	

Outlets		
Outlet		
Outgoing Connection	SW_10.000	
Outlet Type	Free Discharge	

Advanced		
Conductivity (m/hr)		5.0

Land West off Gatesmead Avenue :	Date: 25/06/2026			RIDGE
	Designed by: SS	Checked by: TC	Approved By:	
	Ridge and Partners LLP:			
Report Details: Type: Stormwater Controls Storm Phase: Phase				



Porous Paving (7)

Type : Porous Paving

Dimensions		
Exceedance Level (m)		56.600
Depth (m)		0.660
Base Level (m)		55.940
Paving Layer Depth (mm)		260
Membrane Percolation (m/hr)		360.0
Porosity (%)		30
Length (m)		10.467
Long. Slope (1:X)		100.00
Width (m)		3.299
Total Volume (m³)		4.144

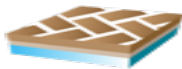
Inlets		
Inlet		
Inlet Type	Lateral Inflow	
Incoming Item(s)	Catchment Area (79)	
Bypass Destination	(None)	
Capacity Type	No Restriction	

Outlets		
Outlet		
Outgoing Connection	SW_9.000	
Outlet Type	Free Discharge	

Advanced		
Conductivity (m/hr)		5.0

Land West off Gatesmead Avenue :	Date: 25/06/2026			RIDGE
	Designed by: SS	Checked by: TC	Approved By:	
	Ridge and Partners LLP:			

Report Details: Type: Stormwater Controls Storm Phase: Phase
--



Porous Paving (8)

Type : Porous Paving

Dimensions		
Exceedance Level (m)		54.635
Depth (m)		0.660
Base Level (m)		53.975
Paving Layer Depth (mm)		260
Membrane Percolation (m/hr)		360.0
Porosity (%)		30
Length (m)		13.431
Long. Slope (1:X)		200.00
Width (m)		3.166
Total Volume (m³)		5.102

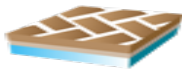
Inlets		
Inlet		
Inlet Type	Lateral Inflow	
Incoming Item(s)	Catchment Area (125)	
Bypass Destination	(None)	
Capacity Type	No Restriction	

Outlets		
Outlet		
Outgoing Connection	SW_15.000	
Outlet Type	Orifice	
Diameter (m)		0.010
Coefficient of Discharge		0.600
Invert Level (m)		54.000

Advanced		
Conductivity (m/hr)		5.0

Land West off Gatesmead Avenue :	Date: 25/06/2026			RIDGE
	Designed by: SS	Checked by: TC	Approved By:	
	Ridge and Partners LLP:			

Report Details:
Type: Stormwater Controls
Storm Phase: Phase



Porous Paving (9)

Type : Porous Paving

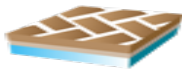
Dimensions		
Exceedance Level (m)		59.161
Depth (m)		0.660
Base Level (m)		58.501
Paving Layer Depth (mm)		260
Membrane Percolation (m/hr)		360.0
Porosity (%)		30
Length (m)		7.060
Long. Slope (1:X)		80.00
Width (m)		6.309
Total Volume (m³)		5.345

Inlets		
Inlet		
Inlet Type	Lateral Inflow	
Incoming Item(s)	Catchment Area (101)	
Bypass Destination	(None)	
Capacity Type	No Restriction	

Outlets		
Outlet		
Outgoing Connection	SW_4.000	
Outlet Type	Orifice	
Diameter (m)		0.010
Coefficient of Discharge		0.600
Invert Level (m)		58.501

Advanced		
Conductivity (m/hr)		5.0

Land West off Gatesmead Avenue :	Date: 25/06/2026			RIDGE
	Designed by: SS	Checked by: TC	Approved By:	
	Ridge and Partners LLP:			
Report Details: Type: Stormwater Controls Storm Phase: Phase				



Porous Paving (10)

Type : Porous Paving

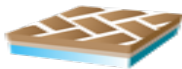
Dimensions		
Exceedance Level (m)		58.950
Depth (m)		0.660
Base Level (m)		58.290
Paving Layer Depth (mm)		260
Membrane Percolation (m/hr)		360.0
Porosity (%)		30
Length (m)		11.180
Long. Slope (1:X)		100.00
Width (m)		6.248
Total Volume (m³)		8.383

Inlets		
Inlet		
Inlet Type	Lateral Inflow	
Incoming Item(s)	Catchment Area (102)	
Bypass Destination	(None)	
Capacity Type	No Restriction	

Outlets		
Outlet		
Outgoing Connection	SW_5.000	
Outlet Type	Orifice	
Diameter (m)		0.010
Coefficient of Discharge		0.600
Invert Level (m)		58.290

Advanced		
Conductivity (m/hr)		5.0

Land West off Gatesmead Avenue :	Date: 25/06/2026			RIDGE
	Designed by: SS	Checked by: TC	Approved By:	
	Ridge and Partners LLP:			
Report Details: Type: Stormwater Controls Storm Phase: Phase				



Porous Paving (11)

Type : Porous Paving

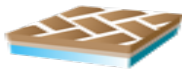
Dimensions		
Exceedance Level (m)		58.694
Depth (m)		0.660
Base Level (m)		58.034
Paving Layer Depth (mm)		260
Membrane Percolation (m/hr)		360.0
Porosity (%)		30
Length (m)		12.404
Long. Slope (1:X)		250.00
Width (m)		3.255
Total Volume (m³)		4.845

Inlets		
Inlet		
Inlet Type	Lateral Inflow	
Incoming Item(s)	Catchment Area (103)	
Bypass Destination	(None)	
Capacity Type	No Restriction	

Outlets		
Outlet		
Outgoing Connection	SW_6.000	
Outlet Type	Orifice	
Diameter (m)		0.010
Coefficient of Discharge		0.600
Invert Level (m)		58.040

Advanced		
Conductivity (m/hr)		5.0

Land West off Gatesmead Avenue :	Date: 25/06/2026			RIDGE
	Designed by: SS	Checked by: TC	Approved By:	
	Ridge and Partners LLP:			
Report Details: Type: Stormwater Controls Storm Phase: Phase				



Porous Paving (12)

Type : Porous Paving

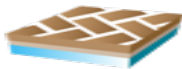
Dimensions		
Exceedance Level (m)		56.900
Depth (m)		0.660
Base Level (m)		56.240
Paving Layer Depth (mm)		260
Membrane Percolation (m/hr)		360.0
Porosity (%)		30
Length (m)		13.364
Long. Slope (1:X)		100.00
Width (m)		6.095
Total Volume (m³)		9.775

Inlets		
Inlet		
Inlet Type	Lateral Inflow	
Incoming Item(s)	Catchment Area (86)	
Bypass Destination	(None)	
Capacity Type	No Restriction	

Outlets		
Outlet		
Outgoing Connection	SW_8.000	
Outlet Type	Orifice	
Diameter (m)		0.010
Coefficient of Discharge		0.600
Invert Level (m)		56.240

Advanced		
Conductivity (m/hr)		5.0

Land West off Gatesmead Avenue :	Date: 25/06/2026			RIDGE
	Designed by: SS	Checked by: TC	Approved By:	
	Ridge and Partners LLP:			
Report Details: Type: Stormwater Controls Storm Phase: Phase				



Porous Paving (14)

Type : Porous Paving

Dimensions		
Exceedance Level (m)		55.690
Depth (m)		0.660
Base Level (m)		55.030
Paving Layer Depth (mm)		260
Membrane Percolation (m/hr)		360.0
Porosity (%)		30
Length (m)		5.909
Long. Slope (1:X)		200.00
Width (m)		6.268
Total Volume (m³)		4.445

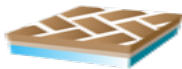
Inlets		
Inlet		
Inlet Type	Lateral Inflow	
Incoming Item(s)	Catchment Area (105)	
Bypass Destination	(None)	
Capacity Type	No Restriction	

Outlets		
Outlet		
Outgoing Connection	SW_13.000	
Outlet Type	Orifice	
Diameter (m)		0.010
Coefficient of Discharge		0.600
Invert Level (m)		55.030

Advanced		
Conductivity (m/hr)		5.0

Land West off Gatesmead Avenue :	Date: 25/06/2026			RIDGE
	Designed by: SS	Checked by: TC	Approved By:	
	Ridge and Partners LLP:			

Report Details: Type: Stormwater Controls Storm Phase: Phase
--



Porous Paving (15)

Type : Porous Paving

Dimensions		
Exceedance Level (m)		54.082
Depth (m)		0.660
Base Level (m)		53.422
Paving Layer Depth (mm)		260
Membrane Percolation (m/hr)		360.0
Porosity (%)		30
Length (m)		13.495
Long. Slope (1:X)		200.00
Width (m)		3.573
Total Volume (m³)		5.787

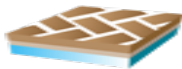
Inlets		
Inlet		
Inlet Type	Lateral Inflow	
Incoming Item(s)	Catchment Area (2)	
Bypass Destination	(None)	
Capacity Type	No Restriction	

Outlets		
Outlet		
Outgoing Connection	SW_16.000	
Outlet Type	Orifice	
Diameter (m)		0.010
Coefficient of Discharge		0.600
Invert Level (m)		53.478

Advanced		
Conductivity (m/hr)		5.0

Land West off Gatesmead Avenue :	Date: 25/06/2026			RIDGE
	Designed by: SS	Checked by: TC	Approved By:	
	Ridge and Partners LLP:			

Report Details:
Type: Stormwater Controls
Storm Phase: Phase



Porous Paving (16)

Type : Porous Paving

Dimensions		
Exceedance Level (m)		53.725
Depth (m)		0.660
Base Level (m)		53.065
Paving Layer Depth (mm)		260
Membrane Percolation (m/hr)		360.0
Porosity (%)		30
Length (m)		12.819
Long. Slope (1:X)		200.00
Width (m)		3.384
Total Volume (m³)		5.205

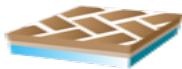
Inlets		
Inlet (1)		
Inlet Type	Lateral Inflow	
Incoming Item(s)	Catchment Area (82)	
Bypass Destination	(None)	
Capacity Type	No Restriction	

Outlets		
Outlet		
Outgoing Connection	SW_17.000	
Outlet Type	Orifice	
Diameter (m)		0.012
Coefficient of Discharge		0.600
Invert Level (m)		53.108

Advanced		
Conductivity (m/hr)		5.0

Land West off Gatesmead Avenue :	Date: 25/06/2026			RIDGE
	Designed by: SS	Checked by: TC	Approved By:	
	Ridge and Partners LLP:			

Report Details:
Type: Stormwater Controls
Storm Phase: Phase



Porous Paving (17)

Type : Porous Paving

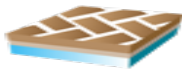
Dimensions		
Exceedance Level (m)		52.912
Depth (m)		0.660
Base Level (m)		52.252
Paving Layer Depth (mm)		260
Membrane Percolation (m/hr)		360.0
Porosity (%)		30
Length (m)		11.738
Long. Slope (1:X)		200.00
Width (m)		10.995
Total Volume (m³)		15.488

Inlets		
Inlet (2)		
Inlet Type	Lateral Inflow	
Incoming Item(s)	Catchment Area (12)	
Bypass Destination	(None)	
Capacity Type	No Restriction	

Outlets		
Outlet		
Outgoing Connection	SW_22.000	
Outlet Type	Orifice	
Diameter (m)		0.012
Coefficient of Discharge		0.600
Invert Level (m)		52.252

Advanced		
Conductivity (m/hr)		5.0

Land West off Gatesmead Avenue :	Date: 25/06/2026			RIDGE
	Designed by: SS	Checked by: TC	Approved By:	
	Ridge and Partners LLP:			
Report Details: Type: Stormwater Controls Storm Phase: Phase				



Porous Paving (18)

Type : Porous Paving

Dimensions		
Exceedance Level (m)		53.812
Depth (m)		0.660
Base Level (m)		53.152
Paving Layer Depth (mm)		260
Membrane Percolation (m/hr)		360.0
Porosity (%)		30
Length (m)		5.014
Long. Slope (1:X)		200.00
Width (m)		9.793
Total Volume (m³)		5.892

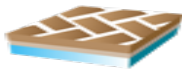
Inlets		
Inlet		
Inlet Type	Lateral Inflow	
Incoming Item(s)	Catchment Area (19)	
Bypass Destination	(None)	
Capacity Type	No Restriction	

Outlets		
Outlet		
Outgoing Connection	SW_19.000	
Outlet Type	Orifice	
Diameter (m)		0.050
Coefficient of Discharge		0.600
Invert Level (m)		53.189

Advanced		
Conductivity (m/hr)		5.0

Land West off Gatesmead Avenue :	Date: 25/06/2026			RIDGE
	Designed by: SS	Checked by: TC	Approved By:	
	Ridge and Partners LLP:			

Report Details: Type: Stormwater Controls Storm Phase: Phase
--



Porous Paving (19)

Type : Porous Paving

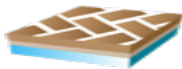
Dimensions		
Exceedance Level (m)		53.850
Depth (m)		0.660
Base Level (m)		53.190
Paving Layer Depth (mm)		260
Membrane Percolation (m/hr)		360.0
Porosity (%)		30
Length (m)		18.226
Long. Slope (1:X)		80.00
Width (m)		5.522
Total Volume (m³)		12.077

Inlets		
Inlet		
Inlet Type	Point Inflow	
Incoming Item(s)	Catchment Area (8)	
Bypass Destination	(None)	
Capacity Type	No Restriction	

Outlets		
Outlet		
Outgoing Connection	SW_20.000	
Outlet Type	Free Discharge	

Advanced		
Conductivity (m/hr)		500.0

Land West off Gatesmead Avenue :	Date: 25/06/2026			RIDGE
	Designed by: SS	Checked by: TC	Approved By:	
	Ridge and Partners LLP:			
Report Details: Type: Stormwater Controls Storm Phase: Phase				



Porous Paving (21)

Type : Porous Paving

Dimensions		
Exceedance Level (m)		51.942
Depth (m)		0.660
Base Level (m)		51.282
Paving Layer Depth (mm)		260
Membrane Percolation (m/hr)		360.0
Porosity (%)		30
Length (m)		14.132
Long. Slope (1:X)		200.00
Width (m)		5.526
Total Volume (m³)		9.371

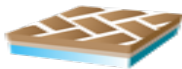
Inlets		
Inlet (3)		
Inlet Type	Lateral Inflow	
Incoming Item(s)	Catchment Area (84)	
Bypass Destination	(None)	
Capacity Type	No Restriction	

Outlets		
Outlet		
Outgoing Connection	SW_23.000	
Outlet Type	Free Discharge	

Advanced		
Conductivity (m/hr)		5.0

Land West off Gatesmead Avenue :	Date: 25/06/2026			RIDGE
	Designed by: SS	Checked by: TC	Approved By:	
	Ridge and Partners LLP:			

Report Details:
Type: Stormwater Controls
Storm Phase: Phase



Porous Paving (22)

Type : Porous Paving

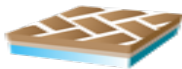
Dimensions		
Exceedance Level (m)		52.365
Depth (m)		0.660
Base Level (m)		51.705
Paving Layer Depth (mm)		260
Membrane Percolation (m/hr)		360.0
Porosity (%)		30
Length (m)		11.215
Long. Slope (1:X)		200.00
Width (m)		3.311
Total Volume (m³)		4.456

Inlets		
Inlet		
Inlet Type	Lateral Inflow	
Incoming Item(s)	Catchment Area (60)	
Bypass Destination	(None)	
Capacity Type	No Restriction	

Outlets		
Outlet		
Outgoing Connection	SW_21.000	
Outlet Type	Orifice	
Diameter (m)		0.010
Coefficient of Discharge		0.600
Invert Level (m)		51.749

Advanced		
Conductivity (m/hr)		5.0

Land West off Gatesmead Avenue :	Date: 25/06/2026			RIDGE
	Designed by: SS	Checked by: TC	Approved By:	
	Ridge and Partners LLP:			
Report Details: Type: Stormwater Controls Storm Phase: Phase				



Porous Paving (23)

Type : Porous Paving

Dimensions		
Exceedance Level (m)		51.648
Depth (m)		0.760
Base Level (m)		50.888
Paving Layer Depth (mm)		260
Membrane Percolation (m/hr)		360.0
Porosity (%)		30
Length (m)		11.806
Long. Slope (1:X)		60.00
Width (m)		3.390
Total Volume (m³)		6.003

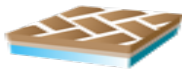
Inlets		
Inlet (1)		
Inlet Type	Lateral Inflow	
Incoming Item(s)	Catchment Area (85)	
Bypass Destination	(None)	
Capacity Type	No Restriction	

Outlets		
Outlet		
Outgoing Connection	SW_26.000	
Outlet Type	Free Discharge	

Advanced		
Conductivity (m/hr)		5.0

Land West off Gatesmead Avenue :	Date: 25/06/2026			RIDGE
	Designed by: SS	Checked by: TC	Approved By:	
	Ridge and Partners LLP:			

Report Details:
Type: Stormwater Controls
Storm Phase: Phase



Porous Paving (24)

Type : Porous Paving

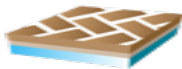
Dimensions		
Exceedance Level (m)		52.637
Depth (m)		0.660
Base Level (m)		51.977
Paving Layer Depth (mm)		260
Membrane Percolation (m/hr)		360.0
Porosity (%)		30
Length (m)		19.361
Long. Slope (1:X)		200.00
Width (m)		8.069
Total Volume (m³)		18.748

Inlets		
Inlet		
Inlet Type	Lateral Inflow	
Incoming Item(s)	Catchment Area (72)	
Bypass Destination	(None)	
Capacity Type	No Restriction	

Outlets		
Outlet		
Outgoing Connection	SW_31.000	
Outlet Type	Free Discharge	

Advanced		
Conductivity (m/hr)		5.0

Land West off Gatesmead Avenue :	Date: 25/06/2026			RIDGE
	Designed by: SS	Checked by: TC	Approved By:	
	Ridge and Partners LLP:			
Report Details: Type: Stormwater Controls Storm Phase: Phase				



Porous Paving (25)

Type : Porous Paving

Dimensions		
Exceedance Level (m)		50.747
Depth (m)		0.660
Base Level (m)		50.087
Paving Layer Depth (mm)		260
Membrane Percolation (m/hr)		360.0
Porosity (%)		30
Length (m)		14.769
Long. Slope (1:X)		200.00
Width (m)		5.844
Total Volume (m³)		10.358

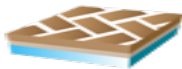
Inlets		
Inlet (1)		
Inlet Type	Lateral Inflow	
Incoming Item(s)	Catchment Area (121)	
Bypass Destination	(None)	
Capacity Type	No Restriction	

Outlets		
Outlet		
Outgoing Connection	SW_28.000	
Outlet Type	Orifice	
Diameter (m)		0.010
Coefficient of Discharge		0.600
Invert Level (m)		50.087

Advanced		
Conductivity (m/hr)		5.0

Land West off Gatesmead Avenue :	Date: 25/06/2026			RIDGE
	Designed by: SS	Checked by: TC	Approved By:	
	Ridge and Partners LLP:			

Report Details:
Type: Stormwater Controls
Storm Phase: Phase



Porous Paving (26)

Type : Porous Paving

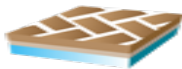
Dimensions		
Exceedance Level (m)		50.552
Depth (m)		0.660
Base Level (m)		49.892
Paving Layer Depth (mm)		260
Membrane Percolation (m/hr)		360.0
Porosity (%)		30
Length (m)		6.048
Long. Slope (1:X)		200.00
Width (m)		6.299
Total Volume (m³)		4.572

Inlets		
Inlet		
Inlet Type	Lateral Inflow	
Incoming Item(s)	Catchment Area (122)	
Bypass Destination	(None)	
Capacity Type	No Restriction	

Outlets		
Outlet		
Outgoing Connection	SW_27.000	
Outlet Type	Orifice	
Diameter (m)		0.012
Coefficient of Discharge		0.600
Invert Level (m)		49.892

Advanced		
Conductivity (m/hr)		5.0

Land West off Gatesmead Avenue :	Date: 25/06/2026			RIDGE
	Designed by: SS	Checked by: TC	Approved By:	
	Ridge and Partners LLP:			
Report Details: Type: Stormwater Controls Storm Phase: Phase				



Porous Paving (28)

Type : Porous Paving

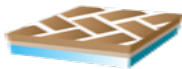
Dimensions		
Exceedance Level (m)		52.700
Depth (m)		0.660
Base Level (m)		52.040
Paving Layer Depth (mm)		260
Membrane Percolation (m/hr)		360.0
Porosity (%)		30
Length (m)		11.984
Long. Slope (1:X)		60.00
Width (m)		6.364
Total Volume (m³)		9.151

Inlets		
Inlet (1)		
Inlet Type	Lateral Inflow	
Incoming Item(s)	Catchment Area (73)	
Bypass Destination	(None)	
Capacity Type	No Restriction	

Outlets		
Outlet		
Outgoing Connection	SW_35.000	
Outlet Type	Free Discharge	

Advanced		
Conductivity (m/hr)		5.0

Land West off Gatesmead Avenue :	Date: 25/06/2026			RIDGE
	Designed by: SS	Checked by: TC	Approved By:	
	Ridge and Partners LLP:			
Report Details: Type: Stormwater Controls Storm Phase: Phase				



Porous Paving (29)

Type : Porous Paving

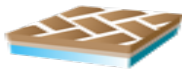
Dimensions		
Exceedance Level (m)		52.757
Depth (m)		0.660
Base Level (m)		52.097
Paving Layer Depth (mm)		260
Membrane Percolation (m/hr)		360.0
Porosity (%)		30
Length (m)		17.092
Long. Slope (1:X)		80.00
Width (m)		3.216
Total Volume (m³)		6.597

Inlets		
Inlet		
Inlet Type	Lateral Inflow	
Incoming Item(s)	Catchment Area (74)	
Bypass Destination	(None)	
Capacity Type	No Restriction	

Outlets		
Outlet		
Outgoing Connection	SW_34.000	
Outlet Type	Free Discharge	

Advanced		
Conductivity (m/hr)		5.0

Land West off Gatesmead Avenue :	Date: 25/06/2026			RIDGE
	Designed by: SS	Checked by: TC	Approved By:	
	Ridge and Partners LLP:			
Report Details: Type: Stormwater Controls Storm Phase: Phase				



Porous Paving (30)

Type : Porous Paving

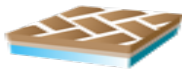
Dimensions		
Exceedance Level (m)		52.000
Depth (m)		0.660
Base Level (m)		51.340
Paving Layer Depth (mm)		260
Membrane Percolation (m/hr)		360.0
Porosity (%)		30
Length (m)		11.383
Long. Slope (1:X)		200.00
Width (m)		3.185
Total Volume (m³)		4.351

Inlets		
Inlet		
Inlet Type	Lateral Inflow	
Incoming Item(s)	Catchment Area (115)	
Bypass Destination	(None)	
Capacity Type	No Restriction	

Outlets		
Outlet		
Outgoing Connection	SW_33.000	
Outlet Type	Free Discharge	

Advanced		
Conductivity (m/hr)		5.0

Land West off Gatesmead Avenue :	Date: 25/06/2026			RIDGE
	Designed by: SS	Checked by: TC	Approved By:	
	Ridge and Partners LLP:			
Report Details: Type: Stormwater Controls Storm Phase: Phase				



Porous Paving (31)

Type : Porous Paving

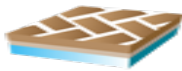
Dimensions		
Exceedance Level (m)		52.356
Depth (m)		0.660
Base Level (m)		51.696
Paving Layer Depth (mm)		260
Membrane Percolation (m/hr)		360.0
Porosity (%)		30
Length (m)		9.851
Long. Slope (1:X)		200.00
Width (m)		4.976
Total Volume (m³)		5.882

Inlets		
Inlet		
Inlet Type	Lateral Inflow	
Incoming Item(s)	Catchment Area (116)	
Bypass Destination	(None)	
Capacity Type	No Restriction	

Outlets		
Outlet		
Outgoing Connection	SW_29.000	
Outlet Type	Free Discharge	

Advanced		
Conductivity (m/hr)		5.0

Land West off Gatesmead Avenue :	Date: 25/06/2026			RIDGE
	Designed by: SS	Checked by: TC	Approved By:	
	Ridge and Partners LLP:			
Report Details: Type: Stormwater Controls Storm Phase: Phase				



Porous Paving (32)

Type : Porous Paving

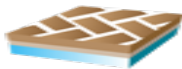
Dimensions		
Exceedance Level (m)		52.271
Depth (m)		0.660
Base Level (m)		51.611
Paving Layer Depth (mm)		260
Membrane Percolation (m/hr)		360.0
Porosity (%)		30
Length (m)		4.959
Long. Slope (1:X)		200.00
Width (m)		5.229
Total Volume (m³)		3.112

Inlets		
Inlet		
Inlet Type	Lateral Inflow	
Incoming Item(s)	Catchment Area (4)	
Bypass Destination	(None)	
Capacity Type	No Restriction	

Outlets		
Outlet		
Outgoing Connection	SW_32.000	
Outlet Type	Free Discharge	

Advanced		
Conductivity (m/hr)		5.0

Land West off Gatesmead Avenue :	Date: 25/06/2026			RIDGE
	Designed by: SS	Checked by: TC	Approved By:	
	Ridge and Partners LLP:			
Report Details: Type: Stormwater Controls Storm Phase: Phase				



Porous Paving (33)

Type : Porous Paving

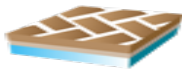
Dimensions		
Exceedance Level (m)		50.112
Depth (m)		0.660
Base Level (m)		49.452
Paving Layer Depth (mm)		260
Membrane Percolation (m/hr)		360.0
Porosity (%)		30
Length (m)		12.863
Long. Slope (1:X)		200.00
Width (m)		5.490
Total Volume (m³)		8.474

Inlets		
Inlet		
Inlet Type	Lateral Inflow	
Incoming Item(s)	Catchment Area (120)	
Bypass Destination	(None)	
Capacity Type	No Restriction	

Outlets		
Outlet		
Outgoing Connection	SW_37.000	
Outlet Type	Free Discharge	

Advanced		
Conductivity (m/hr)		5.0

Land West off Gatesmead Avenue :	Date: 25/06/2026			RIDGE
	Designed by: SS	Checked by: TC	Approved By:	
	Ridge and Partners LLP:			
Report Details: Type: Stormwater Controls Storm Phase: Phase				



Porous Paving 34

Type : Porous Paving

Dimensions		
Exceedance Level (m)		50.411
Depth (m)		0.660
Base Level (m)		49.751
Paving Layer Depth (mm)		260
Membrane Percolation (m/hr)		360.0
Porosity (%)		30
Length (m)		10.612
Long. Slope (1:X)		200.00
Width (m)		3.184
Total Volume (m³)		4.055

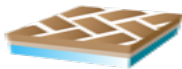
Inlets		
Inlet		
Inlet Type	Lateral Inflow	
Incoming Item(s)	Catchment Area (118)	
Bypass Destination	(None)	
Capacity Type	No Restriction	

Outlets		
Outlet		
Outgoing Connection	SW_36.000	
Outlet Type	Free Discharge	

Advanced		
Conductivity (m/hr)		5.0

Land West off Gatesmead Avenue :	Date: 25/06/2026			RIDGE
	Designed by: SS	Checked by: TC	Approved By:	
	Ridge and Partners LLP:			

Report Details:
Type: Stormwater Controls
Storm Phase: Phase



Porous Paving 35

Type : Porous Paving

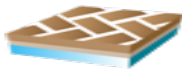
Dimensions		
Exceedance Level (m)		53.861
Depth (m)		0.660
Base Level (m)		53.201
Paving Layer Depth (mm)		260
Membrane Percolation (m/hr)		360.0
Porosity (%)		30
Length (m)		13.423
Long. Slope (1:X)		200.00
Width (m)		3.545
Total Volume (m³)		5.711

Inlets		
Inlet		
Inlet Type	Lateral Inflow	
Incoming Item(s)	Catchment Area (5)	
Bypass Destination	(None)	
Capacity Type	No Restriction	

Outlets		
Outlet		
Outgoing Connection	SW_24.000	
Outlet Type	Orifice	
Diameter (m)		0.010
Coefficient of Discharge		0.600
Invert Level (m)		53.490

Advanced		
Conductivity (m/hr)		5.0

Land West off Gatesmead Avenue :	Date: 25/06/2026			RIDGE
	Designed by: SS	Checked by: TC	Approved By:	
	Ridge and Partners LLP:			
Report Details: Type: Stormwater Controls Storm Phase: Phase				



Porous Paving 36

Type : Porous Paving

Dimensions		
Exceedance Level (m)		53.815
Depth (m)		0.660
Base Level (m)		53.155
Paving Layer Depth (mm)		260
Membrane Percolation (m/hr)		360.0
Porosity (%)		30
Length (m)		12.645
Long. Slope (1:X)		200.00
Width (m)		3.880
Total Volume (m³)		5.887

Inlets		
Inlet		
Inlet Type	Lateral Inflow	
Incoming Item(s)	Catchment Area (104)	
Bypass Destination	(None)	
Capacity Type	No Restriction	

Outlets		
Outlet		
Outgoing Connection	SW_25.000	
Outlet Type	Orifice	
Diameter (m)		0.010
Coefficient of Discharge		0.600
Invert Level (m)		53.340

Advanced		
Conductivity (m/hr)		5.0

Land West off Gatesmead Avenue :	Date: 25/06/2026			RIDGE
	Designed by: SS	Checked by: TC	Approved By:	
	Report Details: Type: Stormwater Controls Storm Phase: Phase			
Ridge and Partners LLP:				



Swale 2

Type : Swale

Swale

Exceedance Level (m)	52.500
Depth (m)	0.700
Base Level (m)	51.800
Top Width (m)	4.766
Side Slope (1:X)	3.00
Base Width (m)	0.566
Freeboard (mm)	150
Length (m)	27.870
Long. Slope (1:X)	200.00
Filtration Rate (m/hr)	0.0
Friction Scheme	Manning's n
n	0.035
Total Volume (m³)	33.963

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	SW_18.002
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Inlet (1)

Inlet Type	Lateral Inflow
Incoming Item(s)	Catchment Area (87)
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Inlet (2)

Inlet Type	Lateral Inflow
Incoming Item(s)	Catchment Area (81)
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	SW_18.003
Outlet Type	Free Discharge

Advanced

Swale

Porosity (%)	100
--------------	-----

Land West off Gatesmead Avenue :	Date: 25/06/2026			RIDGE
	Designed by: SS	Checked by: TC	Approved By:	
	Ridge and Partners LLP:			
Report Details: Type: Stormwater Controls Storm Phase: Phase				



Swale 1

Type : Swale

Swale		
Exceedance Level (m)		55.267
Depth (m)		0.550
Base Level (m)		54.717
Top Width (m)		2.924
Side Slope (1:X)		2.00
Base Width (m)		0.724
Freeboard (mm)		100
Length (m)		20.140
Long. Slope (1:X)		30.00
Filtration Rate (m/hr)		0.0
Friction Scheme		Manning's n
n		0.035
Total Volume (m³)		14.719

Inlets

Inlet

Inlet Type	Lateral Inflow
Incoming Item(s)	Catchment Area (89)
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Inlet (1)

Inlet Type	Lateral Inflow
Incoming Item(s)	Catchment Area (69)
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Outlets		
Outlet		
Outgoing Connection	SW_14.000	
Outlet Type	Free Discharge	

Advanced		
Swale		
Porosity (%)		100

Land West off Gatesmead Avenue :	Date: 25/06/2026		
	Designed by: SS	Checked by: TC	Approved By:
	Ridge and Partners LLP:		
Report Title: Rainfall Analysis Criteria		RIDGE	

Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Default
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	10
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	☐

Rainfall

FEH		Type: FEH
Site Location	GB 534000 124950 TQ 34000 24950	
Rainfall Version	2022	
Summer	☒	
Winter	☒	

Return Period

Return Period (years)	Increase Rainfall (%)
2.0	0.000
30.0	0.000
30.0	35.000
100.0	0.000
100.0	45.000

Storm Durations

Duration (mins)	Run Time (mins)
15	30
30	60
60	120
120	240
240	480
360	720
480	960
960	1920
1440	2880

Land West off Gatesmead Avenue :	Date: 25/06/2026		
	Designed by: SS	Checked by: TC	Approved By:
	Ridge and Partners LLP:		
Report Details: Type: Inflows Summary Storm Phase: Phase			

RIDGE



FEH: 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)
Catchment Area (6)	FEH: 2 years: +0 %: 15 mins: Summer	0.09	16.1	6.983
Catchment Area	FEH: 2 years: +0 %: 15 mins: Summer	0.02	2.8	1.228
Catchment Area (1)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	2.1	0.902
Catchment Area (3)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	2.2	0.953
Catchment Area (4)	FEH: 2 years: +0 %: 15 mins: Summer	0.00	0.4	0.192
Catchment Area (7)	FEH: 2 years: +0 %: 15 mins: Summer	0.00	0.4	0.162
Catchment Area (9)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	1.0	0.443
Catchment Area (10)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	2.2	0.956
Catchment Area (13)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	1.8	0.779
Catchment Area (15)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	1.3	0.566
Catchment Area (21)	FEH: 2 years: +0 %: 15 mins: Summer	0.00	0.8	0.353
Catchment Area (22)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	1.8	0.761
Catchment Area (23)	FEH: 2 years: +0 %: 15 mins: Summer	0.00	0.7	0.309
Catchment Area (26)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	2.1	0.917
Catchment Area (27)	FEH: 2 years: +0 %: 15 mins: Summer	0.00	0.9	0.371
Catchment Area (28)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	1.7	0.758
Catchment Area (29)	FEH: 2 years: +0 %: 15 mins: Summer	0.00	0.7	0.309
Catchment Area (30)	FEH: 2 years: +0 %: 15 mins: Summer	0.00	0.4	0.162
Catchment Area (31)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	1.9	0.812
Catchment Area (32)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	1.9	0.803
Catchment Area (33)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	1.7	0.743
Catchment Area (34)	FEH: 2 years: +0 %: 15 mins: Summer	0.00	0.4	0.162
Catchment Area (35)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	1.2	0.530
Catchment Area (36)	FEH: 2 years: +0 %: 15 mins: Summer	0.00	0.7	0.312
Catchment Area (37)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	1.9	0.815
Catchment Area (38)	FEH: 2 years: +0 %: 15 mins: Summer	0.00	0.7	0.312
Catchment Area (39)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	1.8	0.785
Catchment Area (40)	FEH: 2 years: +0 %: 15 mins: Summer	0.00	0.7	0.315
Catchment Area (41)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	2.3	0.980
Catchment Area (42)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	1.9	0.839
Catchment Area (43)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	2.2	0.968

Land West off Gatesmead Avenue :	Date: 25/06/2026		
	Designed by: SS	Checked by: TC	Approved By:
	Report Details: Type: Inflows Summary Storm Phase: Phase		
Ridge and Partners LLP:			

Catchment Area (44)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	1.8	0.800
Catchment Area (45)	FEH: 2 years: +0 %: 15 mins: Summer	0.00	0.7	0.312
Catchment Area (46)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	1.9	0.806
Catchment Area (47)	FEH: 2 years: +0 %: 15 mins: Summer	0.00	0.4	0.156
Catchment Area (48)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	1.6	0.701
Catchment Area (49)	FEH: 2 years: +0 %: 15 mins: Summer	0.00	0.4	0.168
Catchment Area (50)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	1.7	0.719
Catchment Area (51)	FEH: 2 years: +0 %: 15 mins: Summer	0.00	0.4	0.162
Catchment Area (52)	FEH: 2 years: +0 %: 15 mins: Summer	0.00	0.4	0.162
Catchment Area (53)	FEH: 2 years: +0 %: 15 mins: Summer	0.00	0.7	0.315
Catchment Area (54)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	1.9	0.821
Catchment Area (55)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	1.7	0.728
Catchment Area (56)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	1.7	0.746
Catchment Area (57)	FEH: 2 years: +0 %: 15 mins: Summer	0.00	0.4	0.162
Catchment Area (58)	FEH: 2 years: +0 %: 15 mins: Summer	0.00	0.4	0.162
Catchment Area (59)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	1.6	0.677
Catchment Area (62)	FEH: 2 years: +0 %: 15 mins: Summer	0.00	0.7	0.312
Catchment Area (63)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	1.8	0.776
Catchment Area (64)	FEH: 2 years: +0 %: 15 mins: Summer	0.02	2.7	1.165
Catchment Area (65)	FEH: 2 years: +0 %: 15 mins: Summer	0.02	2.7	1.153
Catchment Area (66)	FEH: 2 years: +0 %: 15 mins: Summer	0.02	3.6	1.579
Catchment Area (68)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	1.6	0.680
Catchment Area (73)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	1.3	0.584
Catchment Area (74)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	0.9	0.410
Catchment Area (75)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	1.8	0.794
Catchment Area (76)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	1.9	0.821
Catchment Area (77)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	1.9	0.821
Catchment Area (78)	FEH: 2 years: +0 %: 15 mins: Summer	0.05	8.7	3.783
Catchment Area (79)	FEH: 2 years: +0 %: 15 mins: Summer	0.00	0.7	0.297
Catchment Area (80)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	2.0	0.878
Catchment Area (81)	FEH: 2 years: +0 %: 15 mins: Summer	0.05	8.6	3.724
Catchment Area (82)	FEH: 2 years: +0 %: 15 mins: Summer	0.00	0.8	0.336
Catchment Area (83)	FEH: 2 years: +0 %: 15 mins: Summer	0.02	2.9	1.273
Catchment Area (84)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	1.4	0.590
Catchment Area (85)	FEH: 2 years: +0 %: 15 mins: Summer	0.00	0.7	0.312

Land West off Gatesmead Avenue :			Date: 25/06/2026		
			Designed by:	Checked by:	Approved By:
			SS	TC	
Report Details: Type: Inflows Summary Storm Phase: Phase			Ridge and Partners LLP:		



Catchment Area (88)	FEH: 2 years: +0 %: 15 mins: Summer	0.06	10.2	4.448
Catchment Area (89)	FEH: 2 years: +0 %: 15 mins: Summer	0.03	5.1	2.202
Catchment Area (90)	FEH: 2 years: +0 %: 15 mins: Summer	0.02	3.0	1.303
Catchment Area (91)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	1.3	0.566
Catchment Area (92)	FEH: 2 years: +0 %: 15 mins: Summer	0.02	3.3	1.447
Catchment Area (93)	FEH: 2 years: +0 %: 15 mins: Summer	0.02	3.7	1.600
Catchment Area (94)	FEH: 2 years: +0 %: 15 mins: Summer	0.03	5.3	2.298
Catchment Area (95)	FEH: 2 years: +0 %: 15 mins: Summer	0.02	4.0	1.731
Catchment Area (96)	FEH: 2 years: +0 %: 15 mins: Summer	0.02	3.5	1.525
Catchment Area (97)	FEH: 2 years: +0 %: 15 mins: Summer	0.02	3.0	1.303
Catchment Area (98)	FEH: 2 years: +0 %: 15 mins: Summer	0.12	21.0	9.116
Catchment Area (99)	FEH: 2 years: +0 %: 15 mins: Summer	0.02	3.0	1.321
Catchment Area (100)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	1.2	0.539
Catchment Area (101)	FEH: 2 years: +0 %: 15 mins: Summer	0.00	0.8	0.336
Catchment Area (102)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	1.2	0.533
Catchment Area (103)	FEH: 2 years: +0 %: 15 mins: Summer	0.00	0.7	0.315
Catchment Area (105)	FEH: 2 years: +0 %: 15 mins: Summer	0.00	0.6	0.276
Catchment Area (106)	FEH: 2 years: +0 %: 15 mins: Summer	0.00	0.6	0.279
Catchment Area (107)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	1.2	0.527
Catchment Area (2)	FEH: 2 years: +0 %: 15 mins: Summer	0.00	0.9	0.374
Catchment Area (12)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	2.3	0.980
Catchment Area (60)	FEH: 2 years: +0 %: 15 mins: Summer	0.00	0.7	0.291
Catchment Area (61)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	1.8	0.767
Catchment Area (108)	FEH: 2 years: +0 %: 15 mins: Summer	0.02	3.3	1.447
Catchment Area (109)	FEH: 2 years: +0 %: 15 mins: Summer	0.02	2.8	1.231
Catchment Area (110)	FEH: 2 years: +0 %: 15 mins: Summer	0.02	3.6	1.564
Catchment Area (111)	FEH: 2 years: +0 %: 15 mins: Summer	0.00	0.4	0.168
Catchment Area (112)	FEH: 2 years: +0 %: 15 mins: Summer	0.02	2.7	1.183
Catchment Area (113)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	1.9	0.839
Catchment Area (114)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	1.6	0.704
Catchment Area (115)	FEH: 2 years: +0 %: 15 mins: Summer	0.00	0.6	0.270
Catchment Area (116)	FEH: 2 years: +0 %: 15 mins: Summer	0.00	0.9	0.371
Catchment Area (117)	FEH: 2 years: +0 %: 15 mins: Summer	0.02	2.8	1.213
Catchment Area (118)	FEH: 2 years: +0 %: 15 mins: Summer	0.00	0.6	0.258
Catchment Area (119)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	1.6	0.683

Land West off Gatesmead Avenue :	Date: 25/06/2026		
	Designed by: SS	Checked by: TC	Approved By:
	Report Details: Type: Inflows Summary Storm Phase: Phase		
Ridge and Partners LLP:			

Catchment Area (120)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	1.2	0.539
Catchment Area (121)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	1.5	0.659
Catchment Area (122)	FEH: 2 years: +0 %: 15 mins: Summer	0.00	0.7	0.288
Catchment Area (123)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	0.9	0.392
Catchment Area (124)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	1.3	0.584
Catchment Area (125)	FEH: 2 years: +0 %: 15 mins: Summer	0.00	0.9	0.371
Catchment Area (17)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	2.0	0.857
Catchment Area (19)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	0.9	0.407
Catchment Area (20)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	2.1	0.893
Catchment Area (70)	FEH: 2 years: +0 %: 15 mins: Summer	0.00	0.4	0.174
Catchment Area (72)	FEH: 2 years: +0 %: 15 mins: Summer	0.02	2.8	1.207
Catchment Area (86)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	1.5	0.647
Catchment Area (24)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	2.2	0.971
Catchment Area (25)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	2.2	0.953
Catchment Area (67)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	1.0	0.431
Catchment Area (69)	FEH: 2 years: +0 %: 15 mins: Summer	0.00	0.8	0.353
Catchment Area (87)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	2.4	1.048
Catchment Area (104)	FEH: 2 years: +0 %: 15 mins: Summer	0.00	0.9	0.374
Catchment Area (126)	FEH: 2 years: +0 %: 15 mins: Summer	0.00	0.8	0.368
Catchment Area (5)	FEH: 2 years: +0 %: 15 mins: Summer	0.00	0.8	0.368
Catchment Area (8)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	1.7	0.758
Catchment Area (11)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	1.6	0.716
Catchment Area (14)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	1.7	0.740
Catchment Area (18)	FEH: 2 years: +0 %: 15 mins: Summer	0.00	0.6	0.276
Catchment Area (71)	FEH: 2 years: +0 %: 15 mins: Summer	0.00	0.7	0.312
Catchment Area (16)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	1.3	0.566
Catchment Area (127)	FEH: 2 years: +0 %: 15 mins: Summer	0.00	0.7	0.297

Land West off Gatesmead Avenue :	Date: 25/06/2026		
	Designed by: SS	Checked by: TC	Approved By:
	Ridge and Partners LLP:		
Report Details: Type: Inflows Summary Storm Phase: Phase			

RIDGE



FEH: 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)
Catchment Area (6)	FEH: 30 years: +0 %: 15 mins: Summer	0.09	35.2	15.279
Catchment Area	FEH: 30 years: +0 %: 15 mins: Summer	0.02	6.2	2.685
Catchment Area (1)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	4.6	1.981
Catchment Area (3)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	4.8	2.083
Catchment Area (4)	FEH: 30 years: +0 %: 15 mins: Summer	0.00	1.0	0.414
Catchment Area (7)	FEH: 30 years: +0 %: 15 mins: Summer	0.00	0.8	0.357
Catchment Area (9)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	2.2	0.962
Catchment Area (10)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	4.8	2.089
Catchment Area (13)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	3.9	1.699
Catchment Area (15)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	2.9	1.244
Catchment Area (21)	FEH: 30 years: +0 %: 15 mins: Summer	0.00	1.8	0.779
Catchment Area (22)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	3.8	1.660
Catchment Area (23)	FEH: 30 years: +0 %: 15 mins: Summer	0.00	1.6	0.677
Catchment Area (26)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	4.6	2.005
Catchment Area (27)	FEH: 30 years: +0 %: 15 mins: Summer	0.00	1.9	0.812
Catchment Area (28)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	3.8	1.660
Catchment Area (29)	FEH: 30 years: +0 %: 15 mins: Summer	0.00	1.6	0.677
Catchment Area (30)	FEH: 30 years: +0 %: 15 mins: Summer	0.00	0.8	0.354
Catchment Area (31)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	4.1	1.774
Catchment Area (32)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	4.0	1.756
Catchment Area (33)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	3.7	1.621
Catchment Area (34)	FEH: 30 years: +0 %: 15 mins: Summer	0.00	0.8	0.366
Catchment Area (35)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	2.7	1.169
Catchment Area (36)	FEH: 30 years: +0 %: 15 mins: Summer	0.00	1.6	0.680
Catchment Area (37)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	4.1	1.777
Catchment Area (38)	FEH: 30 years: +0 %: 15 mins: Summer	0.00	1.6	0.680
Catchment Area (39)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	4.0	1.723
Catchment Area (40)	FEH: 30 years: +0 %: 15 mins: Summer	0.00	1.6	0.686
Catchment Area (41)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	5.0	2.149
Catchment Area (42)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	4.2	1.834
Catchment Area (43)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	4.9	2.110

Land West off Gatesmead Avenue :			Date: 25/06/2026		
			Designed by:	Checked by:	Approved By:
			SS	TC	
Report Details: Type: Inflows Summary Storm Phase: Phase			Ridge and Partners LLP:		



Catchment Area (44)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	4.0	1.753
Catchment Area (45)	FEH: 30 years: +0 %: 15 mins: Summer	0.00	1.6	0.677
Catchment Area (46)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	4.1	1.768
Catchment Area (47)	FEH: 30 years: +0 %: 15 mins: Summer	0.00	0.8	0.345
Catchment Area (48)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	3.5	1.534
Catchment Area (49)	FEH: 30 years: +0 %: 15 mins: Summer	0.00	0.8	0.366
Catchment Area (50)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	3.6	1.567
Catchment Area (51)	FEH: 30 years: +0 %: 15 mins: Summer	0.00	0.8	0.363
Catchment Area (52)	FEH: 30 years: +0 %: 15 mins: Summer	0.00	0.8	0.357
Catchment Area (53)	FEH: 30 years: +0 %: 15 mins: Summer	0.00	1.6	0.686
Catchment Area (54)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	4.1	1.795
Catchment Area (55)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	3.7	1.597
Catchment Area (56)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	3.8	1.636
Catchment Area (57)	FEH: 30 years: +0 %: 15 mins: Summer	0.00	0.8	0.366
Catchment Area (58)	FEH: 30 years: +0 %: 15 mins: Summer	0.00	0.8	0.357
Catchment Area (59)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	3.4	1.477
Catchment Area (62)	FEH: 30 years: +0 %: 15 mins: Summer	0.00	1.6	0.680
Catchment Area (63)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	3.9	1.696
Catchment Area (64)	FEH: 30 years: +0 %: 15 mins: Summer	0.02	5.8	2.538
Catchment Area (65)	FEH: 30 years: +0 %: 15 mins: Summer	0.02	5.8	2.529
Catchment Area (66)	FEH: 30 years: +0 %: 15 mins: Summer	0.02	8.0	3.452
Catchment Area (68)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	3.4	1.480
Catchment Area (73)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	2.9	1.283
Catchment Area (74)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	2.1	0.899
Catchment Area (75)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	4.0	1.729
Catchment Area (76)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	4.1	1.795
Catchment Area (77)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	4.1	1.795
Catchment Area (78)	FEH: 30 years: +0 %: 15 mins: Summer	0.05	19.1	8.282
Catchment Area (79)	FEH: 30 years: +0 %: 15 mins: Summer	0.00	1.5	0.650
Catchment Area (80)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	4.4	1.924
Catchment Area (81)	FEH: 30 years: +0 %: 15 mins: Summer	0.05	18.8	8.145
Catchment Area (82)	FEH: 30 years: +0 %: 15 mins: Summer	0.00	1.7	0.740
Catchment Area (83)	FEH: 30 years: +0 %: 15 mins: Summer	0.02	6.4	2.790
Catchment Area (84)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	3.0	1.300
Catchment Area (85)	FEH: 30 years: +0 %: 15 mins: Summer	0.00	1.6	0.683

Land West off Gatesmead Avenue :			Date: 25/06/2026		
			Designed by:	Checked by:	Approved By:
			SS	TC	
Report Details: Type: Inflows Summary Storm Phase: Phase			Ridge and Partners LLP:		



Catchment Area (88)	FEH: 30 years: +0 %: 15 mins: Summer	0.06	22.4	9.730
Catchment Area (89)	FEH: 30 years: +0 %: 15 mins: Summer	0.03	11.1	4.815
Catchment Area (90)	FEH: 30 years: +0 %: 15 mins: Summer	0.02	6.6	2.847
Catchment Area (91)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	2.9	1.235
Catchment Area (92)	FEH: 30 years: +0 %: 15 mins: Summer	0.02	7.3	3.164
Catchment Area (93)	FEH: 30 years: +0 %: 15 mins: Summer	0.02	8.1	3.494
Catchment Area (94)	FEH: 30 years: +0 %: 15 mins: Summer	0.03	11.6	5.016
Catchment Area (95)	FEH: 30 years: +0 %: 15 mins: Summer	0.02	8.7	3.782
Catchment Area (96)	FEH: 30 years: +0 %: 15 mins: Summer	0.02	7.7	3.341
Catchment Area (97)	FEH: 30 years: +0 %: 15 mins: Summer	0.02	6.6	2.850
Catchment Area (98)	FEH: 30 years: +0 %: 15 mins: Summer	0.12	45.9	19.930
Catchment Area (99)	FEH: 30 years: +0 %: 15 mins: Summer	0.02	6.6	2.883
Catchment Area (100)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	2.7	1.175
Catchment Area (101)	FEH: 30 years: +0 %: 15 mins: Summer	0.00	1.7	0.740
Catchment Area (102)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	2.7	1.169
Catchment Area (103)	FEH: 30 years: +0 %: 15 mins: Summer	0.00	1.6	0.686
Catchment Area (105)	FEH: 30 years: +0 %: 15 mins: Summer	0.00	1.4	0.608
Catchment Area (106)	FEH: 30 years: +0 %: 15 mins: Summer	0.00	1.4	0.611
Catchment Area (107)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	2.7	1.151
Catchment Area (2)	FEH: 30 years: +0 %: 15 mins: Summer	0.00	1.9	0.821
Catchment Area (12)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	5.0	2.149
Catchment Area (60)	FEH: 30 years: +0 %: 15 mins: Summer	0.00	1.4	0.626
Catchment Area (61)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	3.9	1.678
Catchment Area (108)	FEH: 30 years: +0 %: 15 mins: Summer	0.02	7.3	3.170
Catchment Area (109)	FEH: 30 years: +0 %: 15 mins: Summer	0.02	6.2	2.697
Catchment Area (110)	FEH: 30 years: +0 %: 15 mins: Summer	0.02	7.9	3.425
Catchment Area (111)	FEH: 30 years: +0 %: 15 mins: Summer	0.00	0.8	0.366
Catchment Area (112)	FEH: 30 years: +0 %: 15 mins: Summer	0.02	6.0	2.589
Catchment Area (113)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	4.2	1.834
Catchment Area (114)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	3.5	1.540
Catchment Area (115)	FEH: 30 years: +0 %: 15 mins: Summer	0.00	1.3	0.584
Catchment Area (116)	FEH: 30 years: +0 %: 15 mins: Summer	0.00	1.9	0.815
Catchment Area (117)	FEH: 30 years: +0 %: 15 mins: Summer	0.02	6.1	2.664
Catchment Area (118)	FEH: 30 years: +0 %: 15 mins: Summer	0.00	1.3	0.563
Catchment Area (119)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	3.4	1.498

Land West off Gatesmead Avenue :		Date: 25/06/2026	
		Designed by: SS	Checked by: TC
		Approved By:	
Report Details: Type: Inflows Summary Storm Phase: Phase		Ridge and Partners LLP:	

RIDGE

Catchment Area (120)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	2.7	1.175
Catchment Area (121)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	3.3	1.441
Catchment Area (122)	FEH: 30 years: +0 %: 15 mins: Summer	0.00	1.4	0.623
Catchment Area (123)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	2.0	0.860
Catchment Area (124)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	2.9	1.274
Catchment Area (125)	FEH: 30 years: +0 %: 15 mins: Summer	0.00	1.9	0.812
Catchment Area (17)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	4.3	1.876
Catchment Area (19)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	2.0	0.881
Catchment Area (20)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	4.5	1.948
Catchment Area (70)	FEH: 30 years: +0 %: 15 mins: Summer	0.00	0.9	0.375
Catchment Area (72)	FEH: 30 years: +0 %: 15 mins: Summer	0.02	6.1	2.637
Catchment Area (86)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	3.3	1.420
Catchment Area (24)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	4.9	2.113
Catchment Area (25)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	4.8	2.083
Catchment Area (67)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	2.2	0.941
Catchment Area (69)	FEH: 30 years: +0 %: 15 mins: Summer	0.00	1.8	0.773
Catchment Area (87)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	5.3	2.283
Catchment Area (104)	FEH: 30 years: +0 %: 15 mins: Summer	0.00	1.9	0.821
Catchment Area (126)	FEH: 30 years: +0 %: 15 mins: Summer	0.00	1.9	0.803
Catchment Area (5)	FEH: 30 years: +0 %: 15 mins: Summer	0.00	1.9	0.803
Catchment Area (8)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	3.8	1.654
Catchment Area (11)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	3.6	1.561
Catchment Area (14)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	3.7	1.621
Catchment Area (18)	FEH: 30 years: +0 %: 15 mins: Summer	0.00	1.4	0.605
Catchment Area (71)	FEH: 30 years: +0 %: 15 mins: Summer	0.00	1.6	0.683
Catchment Area (16)	FEH: 30 years: +0 %: 15 mins: Summer	0.01	2.9	1.241
Catchment Area (127)	FEH: 30 years: +0 %: 15 mins: Summer	0.00	1.5	0.656

Land West off Gatesmead Avenue :	Date: 25/06/2026		
	Designed by: SS	Checked by: TC	Approved By:
	Ridge and Partners LLP:		
Report Details: Type: Inflows Summary Storm Phase: Phase			

RIDGE



FEH: 30 years: Increase Rainfall (%): +35: Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
Catchment Area (6)	FEH: 30 years: +35 %: 15 mins: Summer	0.09	47.5	20.628
Catchment Area	FEH: 30 years: +35 %: 15 mins: Summer	0.02	8.3	3.623
Catchment Area (1)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	6.2	2.673
Catchment Area (3)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	6.5	2.808
Catchment Area (4)	FEH: 30 years: +35 %: 15 mins: Summer	0.00	1.3	0.560
Catchment Area (7)	FEH: 30 years: +35 %: 15 mins: Summer	0.00	1.1	0.485
Catchment Area (9)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	3.0	1.304
Catchment Area (10)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	6.5	2.823
Catchment Area (13)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	5.3	2.296
Catchment Area (15)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	3.9	1.675
Catchment Area (21)	FEH: 30 years: +35 %: 15 mins: Summer	0.00	2.4	1.049
Catchment Area (22)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	5.2	2.245
Catchment Area (23)	FEH: 30 years: +35 %: 15 mins: Summer	0.00	2.1	0.914
Catchment Area (26)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	6.2	2.706
Catchment Area (27)	FEH: 30 years: +35 %: 15 mins: Summer	0.00	2.5	1.094
Catchment Area (28)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	5.2	2.242
Catchment Area (29)	FEH: 30 years: +35 %: 15 mins: Summer	0.00	2.1	0.911
Catchment Area (30)	FEH: 30 years: +35 %: 15 mins: Summer	0.00	1.1	0.482
Catchment Area (31)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	5.5	2.395
Catchment Area (32)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	5.5	2.374
Catchment Area (33)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	5.0	2.188
Catchment Area (34)	FEH: 30 years: +35 %: 15 mins: Summer	0.00	1.1	0.488
Catchment Area (35)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	3.6	1.576
Catchment Area (36)	FEH: 30 years: +35 %: 15 mins: Summer	0.00	2.1	0.917
Catchment Area (37)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	5.5	2.401
Catchment Area (38)	FEH: 30 years: +35 %: 15 mins: Summer	0.00	2.1	0.917
Catchment Area (39)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	5.4	2.326
Catchment Area (40)	FEH: 30 years: +35 %: 15 mins: Summer	0.00	2.1	0.929
Catchment Area (41)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	6.7	2.904
Catchment Area (42)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	5.7	2.475
Catchment Area (43)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	6.6	2.850

Land West off Gatesmead Avenue :		Date: 25/06/2026	
		Designed by: SS	Checked by: TC
Report Details: Type: Inflows Summary Storm Phase: Phase		Approved By:	
		Ridge and Partners LLP:	

RIDGE

Catchment Area (44)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	5.5	2.365
Catchment Area (45)	FEH: 30 years: +35 %: 15 mins: Summer	0.00	2.1	0.914
Catchment Area (46)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	5.5	2.383
Catchment Area (47)	FEH: 30 years: +35 %: 15 mins: Summer	0.00	1.1	0.465
Catchment Area (48)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	4.8	2.071
Catchment Area (49)	FEH: 30 years: +35 %: 15 mins: Summer	0.00	1.1	0.488
Catchment Area (50)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	4.9	2.119
Catchment Area (51)	FEH: 30 years: +35 %: 15 mins: Summer	0.00	1.1	0.488
Catchment Area (52)	FEH: 30 years: +35 %: 15 mins: Summer	0.00	1.1	0.485
Catchment Area (53)	FEH: 30 years: +35 %: 15 mins: Summer	0.00	2.1	0.932
Catchment Area (54)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	5.6	2.421
Catchment Area (55)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	5.0	2.158
Catchment Area (56)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	5.1	2.209
Catchment Area (57)	FEH: 30 years: +35 %: 15 mins: Summer	0.00	1.1	0.488
Catchment Area (58)	FEH: 30 years: +35 %: 15 mins: Summer	0.00	1.1	0.482
Catchment Area (59)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	4.6	1.990
Catchment Area (62)	FEH: 30 years: +35 %: 15 mins: Summer	0.00	2.1	0.917
Catchment Area (63)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	5.3	2.296
Catchment Area (64)	FEH: 30 years: +35 %: 15 mins: Summer	0.02	7.9	3.431
Catchment Area (65)	FEH: 30 years: +35 %: 15 mins: Summer	0.02	7.9	3.410
Catchment Area (66)	FEH: 30 years: +35 %: 15 mins: Summer	0.02	10.7	4.663
Catchment Area (68)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	4.6	2.002
Catchment Area (73)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	4.0	1.732
Catchment Area (74)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	2.8	1.214
Catchment Area (75)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	5.4	2.335
Catchment Area (76)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	5.6	2.421
Catchment Area (77)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	5.6	2.421
Catchment Area (78)	FEH: 30 years: +35 %: 15 mins: Summer	0.05	25.7	11.175
Catchment Area (79)	FEH: 30 years: +35 %: 15 mins: Summer	0.00	2.0	0.881
Catchment Area (80)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	6.0	2.595
Catchment Area (81)	FEH: 30 years: +35 %: 15 mins: Summer	0.05	25.3	10.996
Catchment Area (82)	FEH: 30 years: +35 %: 15 mins: Summer	0.00	2.3	0.995
Catchment Area (83)	FEH: 30 years: +35 %: 15 mins: Summer	0.02	8.7	3.767
Catchment Area (84)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	4.0	1.756
Catchment Area (85)	FEH: 30 years: +35 %: 15 mins: Summer	0.00	2.1	0.920

Land West off Gatesmead Avenue :			Date: 25/06/2026		
			Designed by:	Checked by:	Approved By:
			SS	TC	
Report Details: Type: Inflows Summary Storm Phase: Phase			Ridge and Partners LLP:		



Catchment Area (88)	FEH: 30 years: +35 %: 15 mins: Summer	0.06	30.3	13.141
Catchment Area (89)	FEH: 30 years: +35 %: 15 mins: Summer	0.03	15.0	6.497
Catchment Area (90)	FEH: 30 years: +35 %: 15 mins: Summer	0.02	8.9	3.842
Catchment Area (91)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	3.8	1.672
Catchment Area (92)	FEH: 30 years: +35 %: 15 mins: Summer	0.02	9.8	4.274
Catchment Area (93)	FEH: 30 years: +35 %: 15 mins: Summer	0.02	10.9	4.720
Catchment Area (94)	FEH: 30 years: +35 %: 15 mins: Summer	0.03	15.6	6.779
Catchment Area (95)	FEH: 30 years: +35 %: 15 mins: Summer	0.02	11.8	5.107
Catchment Area (96)	FEH: 30 years: +35 %: 15 mins: Summer	0.02	10.4	4.516
Catchment Area (97)	FEH: 30 years: +35 %: 15 mins: Summer	0.02	8.9	3.848
Catchment Area (98)	FEH: 30 years: +35 %: 15 mins: Summer	0.12	62.0	26.909
Catchment Area (99)	FEH: 30 years: +35 %: 15 mins: Summer	0.02	9.0	3.893
Catchment Area (100)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	3.7	1.591
Catchment Area (101)	FEH: 30 years: +35 %: 15 mins: Summer	0.00	2.3	0.995
Catchment Area (102)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	3.6	1.579
Catchment Area (103)	FEH: 30 years: +35 %: 15 mins: Summer	0.00	2.1	0.932
Catchment Area (105)	FEH: 30 years: +35 %: 15 mins: Summer	0.00	1.9	0.821
Catchment Area (106)	FEH: 30 years: +35 %: 15 mins: Summer	0.00	1.9	0.824
Catchment Area (107)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	3.6	1.555
Catchment Area (2)	FEH: 30 years: +35 %: 15 mins: Summer	0.00	2.6	1.109
Catchment Area (12)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	6.7	2.901
Catchment Area (60)	FEH: 30 years: +35 %: 15 mins: Summer	0.00	2.0	0.851
Catchment Area (61)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	5.2	2.266
Catchment Area (108)	FEH: 30 years: +35 %: 15 mins: Summer	0.02	9.9	4.277
Catchment Area (109)	FEH: 30 years: +35 %: 15 mins: Summer	0.02	8.4	3.644
Catchment Area (110)	FEH: 30 years: +35 %: 15 mins: Summer	0.02	10.6	4.621
Catchment Area (111)	FEH: 30 years: +35 %: 15 mins: Summer	0.00	1.1	0.488
Catchment Area (112)	FEH: 30 years: +35 %: 15 mins: Summer	0.02	8.0	3.491
Catchment Area (113)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	5.7	2.475
Catchment Area (114)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	4.8	2.080
Catchment Area (115)	FEH: 30 years: +35 %: 15 mins: Summer	0.00	1.8	0.785
Catchment Area (116)	FEH: 30 years: +35 %: 15 mins: Summer	0.00	2.5	1.097
Catchment Area (117)	FEH: 30 years: +35 %: 15 mins: Summer	0.02	8.3	3.593
Catchment Area (118)	FEH: 30 years: +35 %: 15 mins: Summer	0.00	1.8	0.761
Catchment Area (119)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	4.7	2.026

Land West off Gatesmead Avenue :		Date: 25/06/2026	
		Designed by: SS	Checked by: TC
Report Details: Type: Inflows Summary Storm Phase: Phase		Approved By:	
		Ridge and Partners LLP:	

RiDGE

Catchment Area (120)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	3.7	1.585
Catchment Area (121)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	4.5	1.945
Catchment Area (122)	FEH: 30 years: +35 %: 15 mins: Summer	0.00	1.9	0.839
Catchment Area (123)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	2.7	1.166
Catchment Area (124)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	4.0	1.720
Catchment Area (125)	FEH: 30 years: +35 %: 15 mins: Summer	0.00	2.5	1.094
Catchment Area (17)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	5.8	2.532
Catchment Area (19)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	2.8	1.193
Catchment Area (20)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	6.1	2.628
Catchment Area (70)	FEH: 30 years: +35 %: 15 mins: Summer	0.00	1.2	0.506
Catchment Area (72)	FEH: 30 years: +35 %: 15 mins: Summer	0.02	8.2	3.566
Catchment Area (86)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	4.4	1.915
Catchment Area (24)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	6.6	2.853
Catchment Area (25)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	6.5	2.811
Catchment Area (67)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	2.9	1.271
Catchment Area (69)	FEH: 30 years: +35 %: 15 mins: Summer	0.00	2.4	1.040
Catchment Area (87)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	7.1	3.084
Catchment Area (104)	FEH: 30 years: +35 %: 15 mins: Summer	0.00	2.6	1.112
Catchment Area (126)	FEH: 30 years: +35 %: 15 mins: Summer	0.00	2.5	1.088
Catchment Area (5)	FEH: 30 years: +35 %: 15 mins: Summer	0.00	2.5	1.088
Catchment Area (8)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	5.1	2.230
Catchment Area (11)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	4.9	2.107
Catchment Area (14)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	5.0	2.188
Catchment Area (18)	FEH: 30 years: +35 %: 15 mins: Summer	0.00	1.9	0.821
Catchment Area (71)	FEH: 30 years: +35 %: 15 mins: Summer	0.00	2.1	0.920
Catchment Area (16)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	3.9	1.675
Catchment Area (127)	FEH: 30 years: +35 %: 15 mins: Summer	0.00	2.0	0.881

Land West off Gatesmead Avenue :	Date: 25/06/2026		
	Designed by: SS	Checked by: TC	Approved By:
	Report Details: Type: Inflows Summary Storm Phase: Phase		
Ridge and Partners LLP:			RIDGE



FEH: 100 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)
Catchment Area (6)	FEH: 100 years: +0 %: 15 mins: Summer	0.09	44.5	19.320
Catchment Area	FEH: 100 years: +0 %: 15 mins: Summer	0.02	7.8	3.392
Catchment Area (1)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	5.8	2.499
Catchment Area (3)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	6.1	2.631
Catchment Area (4)	FEH: 100 years: +0 %: 15 mins: Summer	0.00	1.2	0.524
Catchment Area (7)	FEH: 100 years: +0 %: 15 mins: Summer	0.00	1.0	0.453
Catchment Area (9)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	2.8	1.223
Catchment Area (10)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	6.1	2.637
Catchment Area (13)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	5.0	2.149
Catchment Area (15)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	3.6	1.567
Catchment Area (21)	FEH: 100 years: +0 %: 15 mins: Summer	0.00	2.3	0.980
Catchment Area (22)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	4.8	2.104
Catchment Area (23)	FEH: 100 years: +0 %: 15 mins: Summer	0.00	2.0	0.854
Catchment Area (26)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	5.8	2.535
Catchment Area (27)	FEH: 100 years: +0 %: 15 mins: Summer	0.00	2.4	1.028
Catchment Area (28)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	4.8	2.101
Catchment Area (29)	FEH: 100 years: +0 %: 15 mins: Summer	0.00	2.0	0.854
Catchment Area (30)	FEH: 100 years: +0 %: 15 mins: Summer	0.00	1.0	0.450
Catchment Area (31)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	5.2	2.242
Catchment Area (32)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	5.1	2.221
Catchment Area (33)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	4.7	2.050
Catchment Area (34)	FEH: 100 years: +0 %: 15 mins: Summer	0.00	1.1	0.456
Catchment Area (35)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	3.4	1.477
Catchment Area (36)	FEH: 100 years: +0 %: 15 mins: Summer	0.00	2.0	0.860
Catchment Area (37)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	5.2	2.245
Catchment Area (38)	FEH: 100 years: +0 %: 15 mins: Summer	0.00	2.0	0.860
Catchment Area (39)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	5.0	2.182
Catchment Area (40)	FEH: 100 years: +0 %: 15 mins: Summer	0.00	2.0	0.872
Catchment Area (41)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	6.3	2.715
Catchment Area (42)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	5.3	2.320
Catchment Area (43)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	6.2	2.673

Land West off Gatesmead Avenue :			Date: 25/06/2026		
			Designed by:	Checked by:	Approved By:
			SS	TC	
Report Details: Type: Inflows Summary Storm Phase: Phase			Ridge and Partners LLP:		



Catchment Area (44)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	5.1	2.221
Catchment Area (45)	FEH: 100 years: +0 %: 15 mins: Summer	0.00	2.0	0.857
Catchment Area (46)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	5.1	2.236
Catchment Area (47)	FEH: 100 years: +0 %: 15 mins: Summer	0.00	1.0	0.432
Catchment Area (48)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	4.5	1.936
Catchment Area (49)	FEH: 100 years: +0 %: 15 mins: Summer	0.00	1.1	0.462
Catchment Area (50)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	4.6	1.984
Catchment Area (51)	FEH: 100 years: +0 %: 15 mins: Summer	0.00	1.0	0.453
Catchment Area (52)	FEH: 100 years: +0 %: 15 mins: Summer	0.00	1.0	0.453
Catchment Area (53)	FEH: 100 years: +0 %: 15 mins: Summer	0.00	2.0	0.872
Catchment Area (54)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	5.2	2.266
Catchment Area (55)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	4.6	2.020
Catchment Area (56)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	4.8	2.068
Catchment Area (57)	FEH: 100 years: +0 %: 15 mins: Summer	0.00	1.1	0.456
Catchment Area (58)	FEH: 100 years: +0 %: 15 mins: Summer	0.00	1.0	0.450
Catchment Area (59)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	4.3	1.867
Catchment Area (62)	FEH: 100 years: +0 %: 15 mins: Summer	0.00	2.0	0.860
Catchment Area (63)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	4.9	2.146
Catchment Area (64)	FEH: 100 years: +0 %: 15 mins: Summer	0.02	7.4	3.213
Catchment Area (65)	FEH: 100 years: +0 %: 15 mins: Summer	0.02	7.4	3.195
Catchment Area (66)	FEH: 100 years: +0 %: 15 mins: Summer	0.02	10.1	4.369
Catchment Area (68)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	4.3	1.873
Catchment Area (73)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	3.7	1.618
Catchment Area (74)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	2.6	1.136
Catchment Area (75)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	5.0	2.185
Catchment Area (76)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	5.2	2.266
Catchment Area (77)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	5.2	2.269
Catchment Area (78)	FEH: 100 years: +0 %: 15 mins: Summer	0.05	24.1	10.471
Catchment Area (79)	FEH: 100 years: +0 %: 15 mins: Summer	0.00	1.9	0.824
Catchment Area (80)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	5.6	2.433
Catchment Area (81)	FEH: 100 years: +0 %: 15 mins: Summer	0.05	23.7	10.297
Catchment Area (82)	FEH: 100 years: +0 %: 15 mins: Summer	0.00	2.2	0.935
Catchment Area (83)	FEH: 100 years: +0 %: 15 mins: Summer	0.02	8.1	3.530
Catchment Area (84)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	3.8	1.642
Catchment Area (85)	FEH: 100 years: +0 %: 15 mins: Summer	0.00	2.0	0.863

Land West off Gatesmead Avenue :	Date: 25/06/2026			RIDGE
	Designed by: SS	Checked by: TC	Approved By:	
	Report Details: Type: Inflows Summary Storm Phase: Phase			
Ridge and Partners LLP:				

Catchment Area (88)	FEH: 100 years: +0 %: 15 mins: Summer	0.06	28.3	12.305
Catchment Area (89)	FEH: 100 years: +0 %: 15 mins: Summer	0.03	14.0	6.087
Catchment Area (90)	FEH: 100 years: +0 %: 15 mins: Summer	0.02	8.3	3.602
Catchment Area (91)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	3.6	1.564
Catchment Area (92)	FEH: 100 years: +0 %: 15 mins: Summer	0.02	9.2	4.004
Catchment Area (93)	FEH: 100 years: +0 %: 15 mins: Summer	0.02	10.2	4.423
Catchment Area (94)	FEH: 100 years: +0 %: 15 mins: Summer	0.03	14.6	6.350
Catchment Area (95)	FEH: 100 years: +0 %: 15 mins: Summer	0.02	11.0	4.780
Catchment Area (96)	FEH: 100 years: +0 %: 15 mins: Summer	0.02	9.7	4.229
Catchment Area (97)	FEH: 100 years: +0 %: 15 mins: Summer	0.02	8.3	3.605
Catchment Area (98)	FEH: 100 years: +0 %: 15 mins: Summer	0.12	58.1	25.206
Catchment Area (99)	FEH: 100 years: +0 %: 15 mins: Summer	0.02	8.4	3.644
Catchment Area (100)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	3.4	1.486
Catchment Area (101)	FEH: 100 years: +0 %: 15 mins: Summer	0.00	2.2	0.935
Catchment Area (102)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	3.4	1.480
Catchment Area (103)	FEH: 100 years: +0 %: 15 mins: Summer	0.00	2.0	0.875
Catchment Area (105)	FEH: 100 years: +0 %: 15 mins: Summer	0.00	1.8	0.773
Catchment Area (106)	FEH: 100 years: +0 %: 15 mins: Summer	0.00	1.8	0.776
Catchment Area (107)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	3.3	1.456
Catchment Area (2)	FEH: 100 years: +0 %: 15 mins: Summer	0.00	2.4	1.037
Catchment Area (12)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	6.3	2.715
Catchment Area (60)	FEH: 100 years: +0 %: 15 mins: Summer	0.00	1.8	0.797
Catchment Area (61)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	4.9	2.125
Catchment Area (108)	FEH: 100 years: +0 %: 15 mins: Summer	0.02	9.2	4.010
Catchment Area (109)	FEH: 100 years: +0 %: 15 mins: Summer	0.02	7.9	3.413
Catchment Area (110)	FEH: 100 years: +0 %: 15 mins: Summer	0.02	10.0	4.330
Catchment Area (111)	FEH: 100 years: +0 %: 15 mins: Summer	0.00	1.1	0.462
Catchment Area (112)	FEH: 100 years: +0 %: 15 mins: Summer	0.02	7.5	3.273
Catchment Area (113)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	5.3	2.320
Catchment Area (114)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	4.5	1.948
Catchment Area (115)	FEH: 100 years: +0 %: 15 mins: Summer	0.00	1.7	0.740
Catchment Area (116)	FEH: 100 years: +0 %: 15 mins: Summer	0.00	2.4	1.031
Catchment Area (117)	FEH: 100 years: +0 %: 15 mins: Summer	0.02	7.8	3.368
Catchment Area (118)	FEH: 100 years: +0 %: 15 mins: Summer	0.00	1.6	0.716
Catchment Area (119)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	4.4	1.894

Land West off Gatesmead Avenue :			Date: 25/06/2026		
			Designed by:	Checked by:	Approved By:
			SS	TC	
Report Details: Type: Inflows Summary Storm Phase: Phase			Ridge and Partners LLP:		



Catchment Area (120)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	3.4	1.486
Catchment Area (121)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	4.2	1.819
Catchment Area (122)	FEH: 100 years: +0 %: 15 mins: Summer	0.00	1.8	0.785
Catchment Area (123)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	2.5	1.091
Catchment Area (124)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	3.7	1.615
Catchment Area (125)	FEH: 100 years: +0 %: 15 mins: Summer	0.00	2.4	1.028
Catchment Area (17)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	5.5	2.373
Catchment Area (19)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	2.6	1.118
Catchment Area (20)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	5.7	2.460
Catchment Area (70)	FEH: 100 years: +0 %: 15 mins: Summer	0.00	1.1	0.473
Catchment Area (72)	FEH: 100 years: +0 %: 15 mins: Summer	0.02	7.7	3.338
Catchment Area (86)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	4.1	1.795
Catchment Area (24)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	6.2	2.673
Catchment Area (25)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	6.1	2.634
Catchment Area (67)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	2.7	1.190
Catchment Area (69)	FEH: 100 years: +0 %: 15 mins: Summer	0.00	2.3	0.977
Catchment Area (87)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	6.7	2.889
Catchment Area (104)	FEH: 100 years: +0 %: 15 mins: Summer	0.00	2.4	1.037
Catchment Area (126)	FEH: 100 years: +0 %: 15 mins: Summer	0.00	2.3	1.016
Catchment Area (5)	FEH: 100 years: +0 %: 15 mins: Summer	0.00	2.3	1.016
Catchment Area (8)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	4.8	2.089
Catchment Area (11)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	4.5	1.972
Catchment Area (14)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	4.7	2.050
Catchment Area (18)	FEH: 100 years: +0 %: 15 mins: Summer	0.00	1.8	0.767
Catchment Area (71)	FEH: 100 years: +0 %: 15 mins: Summer	0.00	2.0	0.860
Catchment Area (16)	FEH: 100 years: +0 %: 15 mins: Summer	0.01	3.6	1.564
Catchment Area (127)	FEH: 100 years: +0 %: 15 mins: Summer	0.00	1.9	0.824

Land West off Gatesmead Avenue :	Date: 25/06/2026		
	Designed by: SS	Checked by: TC	Approved By:
	Report Details: Type: Inflows Summary Storm Phase: Phase		
Ridge and Partners LLP:			RIDGE



FEH: 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)
Catchment Area (6)	FEH: 100 years: +45 %: 15 mins: Summer	0.09	64.6	28.017
Catchment Area	FEH: 100 years: +45 %: 15 mins: Summer	0.02	11.3	4.918
Catchment Area (1)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	8.4	3.630
Catchment Area (3)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	8.8	3.815
Catchment Area (4)	FEH: 100 years: +45 %: 15 mins: Summer	0.00	1.8	0.761
Catchment Area (7)	FEH: 100 years: +45 %: 15 mins: Summer	0.00	1.5	0.659
Catchment Area (9)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	4.1	1.771
Catchment Area (10)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	8.8	3.827
Catchment Area (13)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	7.2	3.117
Catchment Area (15)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	5.2	2.278
Catchment Area (21)	FEH: 100 years: +45 %: 15 mins: Summer	0.00	3.3	1.424
Catchment Area (22)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	7.0	3.048
Catchment Area (23)	FEH: 100 years: +45 %: 15 mins: Summer	0.00	2.9	1.241
Catchment Area (26)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	8.5	3.678
Catchment Area (27)	FEH: 100 years: +45 %: 15 mins: Summer	0.00	3.4	1.484
Catchment Area (28)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	7.0	3.042
Catchment Area (29)	FEH: 100 years: +45 %: 15 mins: Summer	0.00	2.9	1.235
Catchment Area (30)	FEH: 100 years: +45 %: 15 mins: Summer	0.00	1.5	0.650
Catchment Area (31)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	7.5	3.252
Catchment Area (32)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	7.4	3.219
Catchment Area (33)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	6.9	2.979
Catchment Area (34)	FEH: 100 years: +45 %: 15 mins: Summer	0.00	1.5	0.662
Catchment Area (35)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	4.9	2.143
Catchment Area (36)	FEH: 100 years: +45 %: 15 mins: Summer	0.00	2.9	1.247
Catchment Area (37)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	7.5	3.258
Catchment Area (38)	FEH: 100 years: +45 %: 15 mins: Summer	0.00	2.9	1.247
Catchment Area (39)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	7.3	3.162
Catchment Area (40)	FEH: 100 years: +45 %: 15 mins: Summer	0.00	2.9	1.262
Catchment Area (41)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	9.1	3.941
Catchment Area (42)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	7.8	3.369
Catchment Area (43)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	8.9	3.878

Land West off Gatesmead Avenue :			Date: 25/06/2026		
			Designed by:	Checked by:	Approved By:
			SS	TC	
Report Details: Type: Inflows Summary Storm Phase: Phase			Ridge and Partners LLP:		



Catchment Area (44)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	7.4	3.216
Catchment Area (45)	FEH: 100 years: +45 %: 15 mins: Summer	0.00	2.9	1.244
Catchment Area (46)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	7.5	3.237
Catchment Area (47)	FEH: 100 years: +45 %: 15 mins: Summer	0.00	1.4	0.626
Catchment Area (48)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	6.5	2.811
Catchment Area (49)	FEH: 100 years: +45 %: 15 mins: Summer	0.00	1.5	0.665
Catchment Area (50)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	6.6	2.880
Catchment Area (51)	FEH: 100 years: +45 %: 15 mins: Summer	0.00	1.5	0.662
Catchment Area (52)	FEH: 100 years: +45 %: 15 mins: Summer	0.00	1.5	0.659
Catchment Area (53)	FEH: 100 years: +45 %: 15 mins: Summer	0.00	2.9	1.265
Catchment Area (54)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	7.6	3.291
Catchment Area (55)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	6.7	2.925
Catchment Area (56)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	6.9	3.003
Catchment Area (57)	FEH: 100 years: +45 %: 15 mins: Summer	0.00	1.5	0.662
Catchment Area (58)	FEH: 100 years: +45 %: 15 mins: Summer	0.00	1.5	0.656
Catchment Area (59)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	6.2	2.706
Catchment Area (62)	FEH: 100 years: +45 %: 15 mins: Summer	0.00	2.9	1.250
Catchment Area (63)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	7.2	3.114
Catchment Area (64)	FEH: 100 years: +45 %: 15 mins: Summer	0.02	10.7	4.661
Catchment Area (65)	FEH: 100 years: +45 %: 15 mins: Summer	0.02	10.7	4.637
Catchment Area (66)	FEH: 100 years: +45 %: 15 mins: Summer	0.02	14.6	6.336
Catchment Area (68)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	6.3	2.715
Catchment Area (73)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	5.4	2.347
Catchment Area (74)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	3.8	1.654
Catchment Area (75)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	7.3	3.165
Catchment Area (76)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	7.6	3.291
Catchment Area (77)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	7.6	3.294
Catchment Area (78)	FEH: 100 years: +45 %: 15 mins: Summer	0.05	35.0	15.187
Catchment Area (79)	FEH: 100 years: +45 %: 15 mins: Summer	0.00	2.8	1.196
Catchment Area (80)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	8.1	3.525
Catchment Area (81)	FEH: 100 years: +45 %: 15 mins: Summer	0.05	34.4	14.935
Catchment Area (82)	FEH: 100 years: +45 %: 15 mins: Summer	0.00	3.1	1.352
Catchment Area (83)	FEH: 100 years: +45 %: 15 mins: Summer	0.02	11.8	5.116
Catchment Area (84)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	5.5	2.383
Catchment Area (85)	FEH: 100 years: +45 %: 15 mins: Summer	0.00	2.9	1.250

Land West off Gatesmead Avenue :			Date: 25/06/2026		
			Designed by:	Checked by:	Approved By:
			SS	TC	
Report Details: Type: Inflows Summary Storm Phase: Phase			Ridge and Partners LLP:		



Catchment Area (88)	FEH: 100 years: +45 %: 15 mins: Summer	0.06	41.1	17.845
Catchment Area (89)	FEH: 100 years: +45 %: 15 mins: Summer	0.03	20.3	8.830
Catchment Area (90)	FEH: 100 years: +45 %: 15 mins: Summer	0.02	12.0	5.224
Catchment Area (91)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	5.2	2.266
Catchment Area (92)	FEH: 100 years: +45 %: 15 mins: Summer	0.02	13.4	5.811
Catchment Area (93)	FEH: 100 years: +45 %: 15 mins: Summer	0.02	14.8	6.414
Catchment Area (94)	FEH: 100 years: +45 %: 15 mins: Summer	0.03	21.2	9.204
Catchment Area (95)	FEH: 100 years: +45 %: 15 mins: Summer	0.02	16.0	6.938
Catchment Area (96)	FEH: 100 years: +45 %: 15 mins: Summer	0.02	14.1	6.129
Catchment Area (97)	FEH: 100 years: +45 %: 15 mins: Summer	0.02	12.0	5.227
Catchment Area (98)	FEH: 100 years: +45 %: 15 mins: Summer	0.12	84.2	36.550
Catchment Area (99)	FEH: 100 years: +45 %: 15 mins: Summer	0.02	12.2	5.284
Catchment Area (100)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	5.0	2.161
Catchment Area (101)	FEH: 100 years: +45 %: 15 mins: Summer	0.00	3.1	1.352
Catchment Area (102)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	4.9	2.146
Catchment Area (103)	FEH: 100 years: +45 %: 15 mins: Summer	0.00	2.9	1.265
Catchment Area (105)	FEH: 100 years: +45 %: 15 mins: Summer	0.00	2.6	1.115
Catchment Area (106)	FEH: 100 years: +45 %: 15 mins: Summer	0.00	2.6	1.127
Catchment Area (107)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	4.9	2.110
Catchment Area (2)	FEH: 100 years: +45 %: 15 mins: Summer	0.00	3.5	1.505
Catchment Area (12)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	9.1	3.938
Catchment Area (60)	FEH: 100 years: +45 %: 15 mins: Summer	0.00	2.7	1.154
Catchment Area (61)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	7.1	3.081
Catchment Area (108)	FEH: 100 years: +45 %: 15 mins: Summer	0.02	13.4	5.811
Catchment Area (109)	FEH: 100 years: +45 %: 15 mins: Summer	0.02	11.4	4.951
Catchment Area (110)	FEH: 100 years: +45 %: 15 mins: Summer	0.02	14.5	6.279
Catchment Area (111)	FEH: 100 years: +45 %: 15 mins: Summer	0.00	1.5	0.665
Catchment Area (112)	FEH: 100 years: +45 %: 15 mins: Summer	0.02	10.9	4.742
Catchment Area (113)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	7.7	3.366
Catchment Area (114)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	6.5	2.823
Catchment Area (115)	FEH: 100 years: +45 %: 15 mins: Summer	0.00	2.5	1.073
Catchment Area (116)	FEH: 100 years: +45 %: 15 mins: Summer	0.00	3.4	1.496
Catchment Area (117)	FEH: 100 years: +45 %: 15 mins: Summer	0.02	11.2	4.879
Catchment Area (118)	FEH: 100 years: +45 %: 15 mins: Summer	0.00	2.4	1.034
Catchment Area (119)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	6.3	2.748

Land West off Gatesmead Avenue :		Date: 25/06/2026	
		Designed by: SS	Checked by: TC
		Approved By:	
Report Details: Type: Inflows Summary Storm Phase: Phase		Ridge and Partners LLP:	

RIDGE

Catchment Area (120)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	5.0	2.158
Catchment Area (121)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	6.1	2.638
Catchment Area (122)	FEH: 100 years: +45 %: 15 mins: Summer	0.00	2.6	1.145
Catchment Area (123)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	3.6	1.580
Catchment Area (124)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	5.4	2.341
Catchment Area (125)	FEH: 100 years: +45 %: 15 mins: Summer	0.00	3.4	1.484
Catchment Area (17)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	7.9	3.438
Catchment Area (19)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	3.7	1.621
Catchment Area (20)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	8.2	3.570
Catchment Area (70)	FEH: 100 years: +45 %: 15 mins: Summer	0.00	1.6	0.686
Catchment Area (72)	FEH: 100 years: +45 %: 15 mins: Summer	0.02	11.2	4.840
Catchment Area (86)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	6.0	2.599
Catchment Area (24)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	8.9	3.878
Catchment Area (25)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	8.8	3.821
Catchment Area (67)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	4.0	1.729
Catchment Area (69)	FEH: 100 years: +45 %: 15 mins: Summer	0.00	3.3	1.418
Catchment Area (87)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	9.7	4.193
Catchment Area (104)	FEH: 100 years: +45 %: 15 mins: Summer	0.00	3.5	1.508
Catchment Area (126)	FEH: 100 years: +45 %: 15 mins: Summer	0.00	3.4	1.478
Catchment Area (5)	FEH: 100 years: +45 %: 15 mins: Summer	0.00	3.4	1.478
Catchment Area (8)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	7.0	3.027
Catchment Area (11)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	6.6	2.865
Catchment Area (14)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	6.9	2.976
Catchment Area (18)	FEH: 100 years: +45 %: 15 mins: Summer	0.00	2.6	1.115
Catchment Area (71)	FEH: 100 years: +45 %: 15 mins: Summer	0.00	2.9	1.250
Catchment Area (16)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	5.2	2.275
Catchment Area (127)	FEH: 100 years: +45 %: 15 mins: Summer	0.00	2.8	1.196

Land West off Gatesmead Avenue :

Date:
25/06/2026

Designed by:
SS

Checked by:
TC

Approved By:

Report Details:
Type: Junctions Summary
Storm Phase: Phase

Ridge and Partners LLP:

RIDGE



FEH: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
SWMH_5	FEH: 2 years: +0 %: 15 mins: Summer	59.117	57.517	57.556	3.3	0.011	0.000	3.3	1.493	OK
SWMH_4	FEH: 2 years: +0 %: 15 mins: Summer	59.038	56.975	57.064	20.7	0.100	0.000	19.9	9.531	OK
SWMH_7	FEH: 2 years: +0 %: 15 mins: Summer	57.807	55.605	55.716	30.2	0.125	0.000	29.5	13.967	OK
SWMH_9	FEH: 2 years: +0 %: 15 mins: Summer	56.020	53.820	53.946	35.6	0.143	0.000	34.8	17.309	OK
SWMH_10	FEH: 2 years: +0 %: 15 mins: Summer	55.356	53.574	53.742	61.2	0.296	0.000	58.7	30.287	OK
SWMH_20	FEH: 2 years: +0 %: 15 mins: Summer	54.660	52.160	52.306	63.9	0.165	0.000	63.1	32.532	OK
SWMH_22	FEH: 2 years: +0 %: 15 mins: Summer	53.544	51.732	51.842	67.3	0.125	0.000	65.6	34.786	OK
SWMH_23	FEH: 2 years: +0 %: 15 mins: Summer	52.379	51.088	51.239	96.3	0.267	0.000	93.1	49.931	OK
SWMH_29	FEH: 2 years: +0 %: 15 mins: Summer	51.924	50.724	50.875	95.0	0.250	0.000	91.3	50.704	OK
SWMH_30	FEH: 2 years: +0 %: 15 mins: Summer	51.682	49.682	49.859	102.6	0.314	0.000	99.8	55.790	OK
SWMH_34	FEH: 2 years: +0 %: 15 mins: Summer	50.988	49.367	49.560	110.6	0.341	0.000	106.5	60.580	OK
SWMH_36	FEH: 2 years: +0 %: 15 mins: Summer	50.665	49.237	49.399	106.5	0.183	0.000	104.2	60.536	OK
SWMH_37	FEH: 2 years: +0 %: 15 mins: Summer	50.759	48.952	49.140	134.7	0.331	0.000	128.5	74.627	OK
SWMH_44	FEH: 2 years: +0 %: 15 mins: Summer	50.319	48.625	48.832	136.3	0.367	0.000	130.6	77.922	OK
SWMH_13	FEH: 2 years: +0 %: 15 mins: Summer	58.021	55.622	55.693	8.6	0.080	0.000	8.0	3.799	OK
SWMH_11	FEH: 2 years: +0 %: 15 mins: Summer	57.185	55.160	55.222	11.7	0.071	0.000	11.3	5.772	OK
SWMH_16	FEH: 2 years: +0 %: 15 mins: Summer	55.879	54.730	54.815	20.0	0.122	0.000	19.1	9.537	OK
SWMH_1	FEH: 2 years: +0 %: 15 mins: Summer	59.990	58.990	59.026	2.3	0.010	0.000	2.2	0.978	OK
SWMH_3	FEH: 2 years: +0 %: 15 mins: Summer	59.691	58.291	58.340	6.1	0.014	0.000	5.7	2.721	OK
SWMH_17	FEH: 2 years: +0 %: 15 mins: Summer	55.496	54.396	54.426	2.6	0.019	0.000	2.5	1.140	OK
SWMH_18	FEH: 2 years: +0 %: 15 mins: Summer	55.257	54.233	54.285	5.7	0.033	0.000	5.6	2.538	OK
SWMH_19	FEH: 2 years: +0 %: 15 mins: Summer	55.163	54.144	54.203	7.7	0.038	0.000	7.3	3.483	OK
SWMH_31	FEH: 2 years: +0 %: 15 mins: Summer	53.931	52.131	52.143	0.4	0.014	0.000	0.4	0.172	OK
SWMH_33	FEH: 2 years: +0 %: 15 mins: Summer	53.684	51.684	51.724	4.7	0.046	0.000	4.2	2.076	OK
SWMH_38	FEH: 2 years: +0 %: 15 mins: Summer	52.919	51.524	51.581	9.3	0.064	0.000	9.0	4.023	OK
SWMH_42	FEH: 2 years: +0 %: 15 mins: Summer	52.553	51.011	51.094	23.2	0.094	0.000	22.6	10.477	OK
SWMH_43	FEH: 2 years: +0 %: 15 mins: Summer	52.047	50.047	50.108	27.0	0.070	0.000	26.5	12.354	OK
SWMH_28	FEH: 2 years: +0 %: 15 mins: Summer	52.710	51.582	51.629	5.1	0.053	0.000	4.7	2.237	OK
SWMH_24	FEH: 2 years: +0 %: 15 mins: Summer	54.242	52.942	52.989	5.3	0.054	0.000	5.2	2.312	OK
SWMH_25	FEH: 2 years: +0 %: 15 mins: Summer	53.866	52.745	52.794	5.2	0.055	0.000	5.0	2.309	OK
SWMH_26	FEH: 2 years: +0 %: 15 mins: Summer	53.644	52.539	52.592	7.0	0.061	0.000	6.6	3.194	OK
SWMH_45	FEH: 2 years: +0 %: 480 mins: Summer	49.397	47.583	48.037	10.1	0.514	0.000	10.1	312.079	Surcharged
SWMH_46	FEH: 2 years: +0 %: 240 mins: Summer	49.096	47.544	47.619	10.1	0.084	0.000	10.1	189.313	OK
SWMH_47	FEH: 2 years: +0 %: 15 mins: Summer		47.453	47.508	5.9			5.9	7.190	OK
SWMH_12	FEH: 2 years: +0 %: 15 mins: Summer	56.839	55.867	55.905	2.6	0.024	0.000	2.5	1.162	OK
SWMH_41	FEH: 2 years: +0 %: 15 mins: Summer	52.702	51.225	51.303	16.0	0.088	0.000	15.4	7.064	OK
SWMH_35	FEH: 2 years: +0 %: 15 mins: Summer	50.730	49.630	49.670	3.4	0.045	0.000	3.2	1.522	OK
SWMH_21	FEH: 2 years: +0 %: 15 mins: Summer	54.120	52.052	52.170	66.4	0.133	0.000	65.3	33.946	OK
SWMH_14	FEH: 2 years: +0 %: 15 mins: Summer	57.796	55.425	55.508	11.5	0.094	0.000	10.8	5.327	OK
SWMH_6	FEH: 2 years: +0 %: 15 mins: Summer	58.868	57.293	57.356	7.3	0.018	0.000	6.9	3.280	OK
SWMH_2	FEH: 2 years: +0 %: 15 mins: Summer	59.921	58.915	58.945	2.9	0.009	0.000	2.8	1.320	OK
SWMH_8	FEH: 2 years: +0 %: 15 mins: Summer	56.728	55.272	55.397	35.5	0.178	0.000	33.9	16.582	OK
SWMH_32	FEH: 2 years: +0 %: 15 mins: Summer	53.840	51.952	51.985	3.0	0.037	0.000	2.9	1.304	OK
SWMH_27	FEH: 2 years: +0 %: 15 mins: Summer	53.779	52.779	52.808	2.1	0.033	0.000	2.0	0.893	OK
SWMH_15	FEH: 2 years: +0 %: 15 mins: Summer	57.753	56.427	56.445	0.7	0.020	0.000	0.7	0.310	OK
SWMH_40	FEH: 2 years: +0 %: 1440 mins: Winter	52.968	51.590	51.593	0.0	0.004	0.000	0.0	0.754	OK
SWMH_39	FEH: 2 years: +0 %: 15 mins: Summer	52.931	51.731	51.731	0.0	0.000	0.000	0.0	0.000	OK

Land West off Gatesmead Avenue :

Date:
25/06/2026

Designed by:
SS

Checked by:
TC

Approved By:

Report Details:
Type: Junctions Summary
Storm Phase: Phase

Ridge and Partners LLP:

RIDGE



FEH: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
SWMH_5	FEH: 30 years: +0 %: 15 mins: Summer	59.117	57.517	57.576	7.3	0.017	0.000	7.2	3.246	OK
SWMH_4	FEH: 30 years: +0 %: 15 mins: Summer	59.038	56.975	57.121	45.7	0.165	0.000	44.1	20.846	OK
SWMH_7	FEH: 30 years: +0 %: 15 mins: Summer	57.807	55.605	55.886	66.5	0.317	0.000	59.3	30.536	Surcharged
SWMH_9	FEH: 30 years: +0 %: 15 mins: Summer	56.020	53.820	54.573	71.6	0.852	0.000	67.6	37.915	Surcharged
SWMH_10	FEH: 30 years: +0 %: 15 mins: Summer	55.356	53.574	54.286	115.3	1.258	0.000	110.1	68.118	Surcharged
SWMH_20	FEH: 30 years: +0 %: 15 mins: Summer	54.660	52.160	52.372	121.5	0.240	0.000	121.0	73.081	OK
SWMH_22	FEH: 30 years: +0 %: 15 mins: Summer	53.544	51.732	51.895	131.9	0.185	0.000	130.4	78.061	OK
SWMH_23	FEH: 30 years: +0 %: 15 mins: Summer	52.379	51.088	51.324	198.2	0.418	0.000	192.8	111.370	OK
SWMH_29	FEH: 30 years: +0 %: 15 mins: Summer	51.924	50.724	50.960	197.0	0.390	0.000	191.4	113.106	OK
SWMH_30	FEH: 30 years: +0 %: 15 mins: Summer	51.682	49.682	49.976	216.2	0.519	0.000	211.7	124.270	OK
SWMH_34	FEH: 30 years: +0 %: 15 mins: Summer	50.988	49.367	49.686	234.1	0.564	0.000	226.3	134.766	OK
SWMH_36	FEH: 30 years: +0 %: 15 mins: Summer	50.665	49.237	49.513	226.3	0.312	0.000	222.4	134.705	OK
SWMH_37	FEH: 30 years: +0 %: 15 mins: Summer	50.759	48.952	49.276	289.1	0.573	0.000	276.8	165.538	OK
SWMH_44	FEH: 30 years: +0 %: 15 mins: Summer	50.319	48.625	48.974	293.9	0.618	0.000	283.9	172.817	OK
SWMH_13	FEH: 30 years: +0 %: 15 mins: Summer	58.021	55.622	55.753	18.8	0.148	0.000	15.2	8.290	OK
SWMH_11	FEH: 30 years: +0 %: 15 mins: Summer	57.185	55.160	55.252	23.7	0.104	0.000	23.1	12.640	OK
SWMH_16	FEH: 30 years: +0 %: 15 mins: Summer	55.879	54.730	54.866	42.2	0.194	0.000	40.9	20.900	OK
SWMH_1	FEH: 30 years: +0 %: 15 mins: Summer	59.990	58.990	59.044	5.0	0.015	0.000	4.9	2.147	OK
SWMH_3	FEH: 30 years: +0 %: 15 mins: Summer	59.691	58.291	58.369	13.4	0.022	0.000	12.6	5.954	OK
SWMH_17	FEH: 30 years: +0 %: 15 mins: Summer	55.496	54.396	54.440	5.6	0.028	0.000	5.5	2.487	OK
SWMH_18	FEH: 30 years: +0 %: 15 mins: Winter	55.257	54.233	54.312	11.8	0.051	0.000	11.6	5.538	OK
SWMH_19	FEH: 30 years: +0 %: 15 mins: Summer	55.163	54.144	54.299	18.4	0.099	0.000	6.8	7.583	OK
SWMH_31	FEH: 30 years: +0 %: 15 mins: Summer	53.931	52.131	52.149	0.9	0.021	0.000	0.8	0.373	OK
SWMH_33	FEH: 30 years: +0 %: 15 mins: Summer	53.684	51.684	51.747	10.3	0.071	0.000	9.4	4.546	OK
SWMH_38	FEH: 30 years: +0 %: 15 mins: Summer	52.919	51.524	51.611	20.3	0.098	0.000	19.4	8.850	OK
SWMH_42	FEH: 30 years: +0 %: 15 mins: Summer	52.553	51.011	51.146	50.5	0.152	0.000	49.3	22.954	OK
SWMH_43	FEH: 30 years: +0 %: 15 mins: Summer	52.047	50.047	50.136	59.0	0.101	0.000	58.2	27.113	OK
SWMH_28	FEH: 30 years: +0 %: 15 mins: Summer	52.710	51.582	51.653	11.2	0.080	0.000	10.4	4.909	OK
SWMH_24	FEH: 30 years: +0 %: 15 mins: Summer	54.242	52.942	53.017	11.7	0.085	0.000	11.4	5.058	OK
SWMH_25	FEH: 30 years: +0 %: 15 mins: Summer	53.866	52.745	52.823	11.4	0.088	0.000	11.1	5.054	OK
SWMH_26	FEH: 30 years: +0 %: 15 mins: Summer	53.644	52.539	52.626	15.4	0.098	0.000	14.7	7.079	OK
SWMH_45	FEH: 30 years: +0 %: 480 mins: Winter	49.397	47.583	48.416	10.1	0.942	0.000	10.0	384.484	Surcharged
SWMH_46	FEH: 30 years: +0 %: 1440 mins: Summer	49.096	47.544	47.619	10.1	0.084	0.000	10.1	836.332	OK
SWMH_47	FEH: 30 years: +0 %: 15 mins: Summer		47.453	47.522	9.4			9.4	12.641	OK
SWMH_12	FEH: 30 years: +0 %: 15 mins: Summer	56.839	55.867	55.923	5.7	0.036	0.000	5.5	2.522	OK
SWMH_41	FEH: 30 years: +0 %: 15 mins: Summer	52.702	51.225	51.351	34.7	0.142	0.000	33.4	15.462	OK
SWMH_35	FEH: 30 years: +0 %: 15 mins: Summer	50.730	49.630	49.692	7.5	0.070	0.000	5.6	3.303	OK
SWMH_21	FEH: 30 years: +0 %: 15 mins: Summer	54.120	52.052	52.225	128.2	0.195	0.000	127.5	76.183	OK
SWMH_14	FEH: 30 years: +0 %: 15 mins: Summer	57.796	55.425	55.624	22.9	0.225	0.000	21.7	11.658	Surcharged
SWMH_6	FEH: 30 years: +0 %: 15 mins: Summer	58.868	57.293	57.399	16.1	0.030	0.000	15.2	7.157	OK
SWMH_2	FEH: 30 years: +0 %: 15 mins: Summer	59.921	58.915	58.960	6.5	0.013	0.000	6.3	2.880	OK
SWMH_8	FEH: 30 years: +0 %: 15 mins: Summer	56.728	55.272	55.574	72.5	0.433	0.000	67.9	36.335	Surcharged
SWMH_32	FEH: 30 years: +0 %: 15 mins: Summer	53.840	51.952	52.002	6.5	0.057	0.000	6.3	2.856	OK
SWMH_27	FEH: 30 years: +0 %: 15 mins: Summer	53.779	52.779	52.822	4.5	0.049	0.000	4.4	2.045	OK
SWMH_15	FEH: 30 years: +0 %: 15 mins: Summer	57.753	56.427	56.454	1.6	0.030	0.000	1.5	0.681	OK
SWMH_40	FEH: 30 years: +0 %: 15 mins: Summer	52.968	51.590	51.610	0.3	0.023	0.000	0.0	0.044	OK
SWMH_39	FEH: 30 years: +0 %: 15 mins: Summer	52.931	51.731	51.731	0.0	0.000	0.000	0.0	0.000	OK

Land West off Gatesmead Avenue :

Date:
25/06/2026

Designed by:
SS

Checked by:
TC

Approved By:

Report Details:
Type: Junctions Summary
Storm Phase: Phase

Ridge and Partners LLP:

RIDGE



FEH: 30 years: Increase Rainfall (%): +35: Critical Storm Per Item: Rank By: Max. Resident Volume

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
SWMH_5	FEH: 30 years: +35 %: 15 mins: Summer	59.117	57.517	57.586	9.8	0.020	0.000	9.7	4.363	OK
SWMH_4	FEH: 30 years: +35 %: 15 mins: Summer	59.038	56.975	57.160	61.2	0.209	0.000	59.0	28.135	OK
SWMH_7	FEH: 30 years: +35 %: 15 mins: Summer	57.807	55.605	56.446	89.3	0.951	0.000	81.9	41.223	Surcharged
SWMH_9	FEH: 30 years: +35 %: 15 mins: Summer	56.020	53.820	55.132	99.4	1.484	0.000	90.8	51.204	Surcharged
SWMH_10	FEH: 30 years: +35 %: 30 mins: Summer	55.356	53.574	54.765	144.1	2.104	0.000	142.0	127.226	Surcharged
SWMH_20	FEH: 30 years: +35 %: 30 mins: Summer	54.660	52.160	52.403	152.3	0.275	0.000	152.2	136.256	OK
SWMH_22	FEH: 30 years: +35 %: 15 mins: Summer	53.544	51.732	51.918	162.4	0.211	0.000	159.3	106.723	OK
SWMH_23	FEH: 30 years: +35 %: 15 mins: Summer	52.379	51.088	51.366	250.2	0.492	0.000	243.2	151.836	OK
SWMH_29	FEH: 30 years: +35 %: 15 mins: Summer	51.924	50.724	51.000	248.9	0.457	0.000	242.6	154.197	OK
SWMH_30	FEH: 30 years: +35 %: 15 mins: Summer	51.682	49.682	50.045	276.3	0.641	0.000	270.8	169.258	OK
SWMH_34	FEH: 30 years: +35 %: 15 mins: Summer	50.988	49.367	49.765	298.8	0.704	0.000	288.3	183.628	OK
SWMH_36	FEH: 30 years: +35 %: 15 mins: Summer	50.665	49.237	49.584	288.3	0.393	0.000	284.1	183.428	OK
SWMH_37	FEH: 30 years: +35 %: 15 mins: Summer	50.759	48.952	49.379	374.3	0.754	0.000	351.1	225.062	OK
SWMH_44	FEH: 30 years: +35 %: 15 mins: Summer	50.319	48.625	49.091	374.2	0.825	0.000	361.1	234.944	Surcharged
SWMH_13	FEH: 30 years: +35 %: 15 mins: Summer	58.021	55.622	55.978	20.6	0.403	0.000	18.8	11.173	Surcharged
SWMH_11	FEH: 30 years: +35 %: 15 mins: Summer	57.185	55.160	55.267	30.1	0.121	0.000	29.4	17.021	OK
SWMH_16	FEH: 30 years: +35 %: 15 mins: Summer	55.879	54.730	54.894	55.2	0.235	0.000	52.9	28.127	OK
SWMH_1	FEH: 30 years: +35 %: 15 mins: Summer	59.990	58.990	59.054	6.7	0.018	0.000	6.6	2.902	OK
SWMH_3	FEH: 30 years: +35 %: 15 mins: Summer	59.691	58.291	58.386	18.1	0.027	0.000	17.1	8.036	OK
SWMH_17	FEH: 30 years: +35 %: 30 mins: Summer	55.496	54.396	54.780	5.1	0.244	0.000	5.0	4.545	Surcharged
SWMH_18	FEH: 30 years: +35 %: 30 mins: Summer	55.257	54.233	54.779	11.4	0.347	0.000	11.1	10.045	Surcharged
SWMH_19	FEH: 30 years: +35 %: 30 mins: Summer	55.163	54.144	54.775	15.4	0.402	0.000	12.3	13.779	Surcharged
SWMH_31	FEH: 30 years: +35 %: 15 mins: Summer	53.931	52.131	52.152	1.2	0.024	0.000	1.1	0.505	OK
SWMH_33	FEH: 30 years: +35 %: 15 mins: Summer	53.684	51.684	51.759	13.9	0.085	0.000	12.8	6.140	OK
SWMH_38	FEH: 30 years: +35 %: 15 mins: Summer	52.919	51.524	51.629	27.4	0.119	0.000	26.2	11.978	OK
SWMH_42	FEH: 30 years: +35 %: 15 mins: Summer	52.553	51.011	51.180	68.2	0.190	0.000	66.4	30.981	OK
SWMH_43	FEH: 30 years: +35 %: 15 mins: Summer	52.047	50.047	50.149	79.5	0.116	0.000	78.7	36.592	OK
SWMH_28	FEH: 30 years: +35 %: 15 mins: Summer	52.710	51.582	51.666	15.1	0.095	0.000	14.2	6.636	OK
SWMH_24	FEH: 30 years: +35 %: 15 mins: Summer	54.242	52.942	53.033	15.7	0.104	0.000	15.4	6.827	OK
SWMH_25	FEH: 30 years: +35 %: 15 mins: Summer	53.866	52.745	52.841	15.4	0.109	0.000	14.9	6.822	OK
SWMH_26	FEH: 30 years: +35 %: 15 mins: Summer	53.644	52.539	52.647	20.8	0.122	0.000	19.8	9.662	OK
SWMH_45	FEH: 30 years: +35 %: 480 mins: Winter	49.397	47.583	48.690	10.2	1.252	0.000	10.1	452.928	Surcharged
SWMH_46	FEH: 30 years: +35 %: 480 mins: Winter	49.096	47.544	47.619	10.1	0.084	0.000	10.1	451.106	OK
SWMH_47	FEH: 30 years: +35 %: 15 mins: Summer		47.453	47.516	7.8			7.7	11.046	OK
SWMH_12	FEH: 30 years: +35 %: 15 mins: Summer	56.839	55.867	55.980	7.7	0.072	0.000	2.6	3.527	OK
SWMH_41	FEH: 30 years: +35 %: 15 mins: Summer	52.702	51.225	51.382	46.9	0.177	0.000	45.0	20.866	OK
SWMH_35	FEH: 30 years: +35 %: 15 mins: Summer	50.730	49.630	49.766	10.1	0.154	0.000	6.5	4.728	OK
SWMH_21	FEH: 30 years: +35 %: 30 mins: Summer	54.120	52.052	52.249	158.7	0.223	0.000	158.4	141.953	OK
SWMH_14	FEH: 30 years: +35 %: 15 mins: Summer	57.796	55.425	55.765	29.2	0.384	0.000	27.3	15.724	Surcharged
SWMH_6	FEH: 30 years: +35 %: 15 mins: Summer	58.868	57.293	57.436	21.8	0.040	0.000	20.0	9.651	OK
SWMH_2	FEH: 30 years: +35 %: 15 mins: Summer	59.921	58.915	58.968	8.7	0.015	0.000	8.6	3.889	OK
SWMH_8	FEH: 30 years: +35 %: 15 mins: Summer	56.728	55.272	55.865	99.6	0.849	0.000	94.4	49.049	Surcharged
SWMH_32	FEH: 30 years: +35 %: 15 mins: Summer	53.840	51.952	52.012	8.8	0.068	0.000	8.6	3.854	OK
SWMH_27	FEH: 30 years: +35 %: 15 mins: Summer	53.779	52.779	52.829	6.1	0.057	0.000	5.9	2.866	OK
SWMH_15	FEH: 30 years: +35 %: 15 mins: Summer	57.753	56.427	56.458	2.1	0.035	0.000	2.0	0.918	OK
SWMH_40	FEH: 30 years: +35 %: 15 mins: Summer	52.968	51.590	51.628	0.5	0.044	0.000	0.0	0.090	OK
SWMH_39	FEH: 30 years: +35 %: 15 mins: Summer	52.931	51.731	51.731	0.0	0.000	0.000	0.0	0.000	OK

Land West off Gatesmead Avenue :

Date:
25/06/2026

Designed by:
SS

Checked by:
TC

Approved By:

Report Details:
Type: Junctions Summary
Storm Phase: Phase

Ridge and Partners LLP:

RIDGE



FEH: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
SWMH_5	FEH: 100 years: +0 %: 15 mins: Summer	59.117	57.517	57.584	9.2	0.019	0.000	9.1	4.095	OK
SWMH_4	FEH: 100 years: +0 %: 15 mins: Summer	59.038	56.975	57.150	57.7	0.198	0.000	55.6	26.355	OK
SWMH_7	FEH: 100 years: +0 %: 15 mins: Summer	57.807	55.605	56.313	83.9	0.801	0.000	77.1	38.613	Surcharged
SWMH_9	FEH: 100 years: +0 %: 15 mins: Summer	56.020	53.820	54.992	93.5	1.326	0.000	84.1	47.949	Surcharged
SWMH_10	FEH: 100 years: +0 %: 30 mins: Summer	55.356	53.574	54.648	136.4	1.897	0.000	134.8	120.296	Surcharged
SWMH_20	FEH: 100 years: +0 %: 30 mins: Summer	54.660	52.160	52.395	144.6	0.266	0.000	144.4	128.847	OK
SWMH_22	FEH: 100 years: +0 %: 30 mins: Summer	53.544	51.732	51.912	154.1	0.204	0.000	153.7	137.589	OK
SWMH_23	FEH: 100 years: +0 %: 15 mins: Summer	52.379	51.088	51.355	236.2	0.473	0.000	231.1	141.961	OK
SWMH_29	FEH: 100 years: +0 %: 15 mins: Summer	51.924	50.724	50.991	236.5	0.441	0.000	230.3	144.169	OK
SWMH_30	FEH: 100 years: +0 %: 15 mins: Summer	51.682	49.682	50.028	261.9	0.611	0.000	256.5	158.279	OK
SWMH_34	FEH: 100 years: +0 %: 15 mins: Summer	50.988	49.367	49.744	283.4	0.666	0.000	272.8	171.618	OK
SWMH_36	FEH: 100 years: +0 %: 15 mins: Summer	50.665	49.237	49.568	272.8	0.374	0.000	267.7	171.523	OK
SWMH_37	FEH: 100 years: +0 %: 15 mins: Summer	50.759	48.952	49.348	352.2	0.699	0.000	337.6	210.520	OK
SWMH_44	FEH: 100 years: +0 %: 15 mins: Summer	50.319	48.625	49.048	359.1	0.748	0.000	347.3	219.762	OK
SWMH_13	FEH: 100 years: +0 %: 15 mins: Summer	58.021	55.622	55.945	21.3	0.365	0.000	18.8	10.487	Surcharged
SWMH_11	FEH: 100 years: +0 %: 15 mins: Summer	57.185	55.160	55.263	28.6	0.117	0.000	27.8	15.973	OK
SWMH_16	FEH: 100 years: +0 %: 15 mins: Summer	55.879	54.730	54.887	51.9	0.224	0.000	49.8	26.367	OK
SWMH_1	FEH: 100 years: +0 %: 15 mins: Summer	59.990	58.990	59.052	6.3	0.018	0.000	6.2	2.714	OK
SWMH_3	FEH: 100 years: +0 %: 15 mins: Summer	59.691	58.291	58.382	17.0	0.026	0.000	16.0	7.531	OK
SWMH_17	FEH: 100 years: +0 %: 30 mins: Summer	55.496	54.396	54.664	4.9	0.170	0.000	4.7	4.306	Surcharged
SWMH_18	FEH: 100 years: +0 %: 30 mins: Summer	55.257	54.233	54.663	10.8	0.274	0.000	10.5	9.523	Surcharged
SWMH_19	FEH: 100 years: +0 %: 30 mins: Summer	55.163	54.144	54.659	14.6	0.327	0.000	14.9	13.048	Surcharged
SWMH_31	FEH: 100 years: +0 %: 15 mins: Summer	53.931	52.131	52.151	1.1	0.023	0.000	1.1	0.472	OK
SWMH_33	FEH: 100 years: +0 %: 15 mins: Summer	53.684	51.684	51.756	13.0	0.082	0.000	12.0	5.742	OK
SWMH_38	FEH: 100 years: +0 %: 15 mins: Summer	52.919	51.524	51.625	25.7	0.114	0.000	24.5	11.214	OK
SWMH_42	FEH: 100 years: +0 %: 15 mins: Summer	52.553	51.011	51.171	63.9	0.181	0.000	62.3	29.022	OK
SWMH_43	FEH: 100 years: +0 %: 15 mins: Summer	52.047	50.047	50.146	74.6	0.113	0.000	73.8	34.286	OK
SWMH_28	FEH: 100 years: +0 %: 15 mins: Summer	52.710	51.582	51.663	14.1	0.091	0.000	13.3	6.207	OK
SWMH_24	FEH: 100 years: +0 %: 15 mins: Summer	54.242	52.942	53.029	14.7	0.099	0.000	14.4	6.395	OK
SWMH_25	FEH: 100 years: +0 %: 15 mins: Summer	53.866	52.745	52.836	14.4	0.104	0.000	14.0	6.391	OK
SWMH_26	FEH: 100 years: +0 %: 15 mins: Summer	53.644	52.539	52.641	19.5	0.116	0.000	18.6	9.028	OK
SWMH_45	FEH: 100 years: +0 %: 480 mins: Winter	49.397	47.583	48.610	10.2	1.162	0.000	10.1	433.833	Surcharged
SWMH_46	FEH: 100 years: +0 %: 960 mins: Summer	49.096	47.544	47.619	10.1	0.084	0.000	10.1	832.211	OK
SWMH_47	FEH: 100 years: +0 %: 15 mins: Summer		47.453	47.523	9.5			9.5	10.819	OK
SWMH_12	FEH: 100 years: +0 %: 15 mins: Summer	56.839	55.867	55.942	7.2	0.048	0.000	4.4	3.252	OK
SWMH_41	FEH: 100 years: +0 %: 15 mins: Summer	52.702	51.225	51.374	43.9	0.168	0.000	42.2	19.544	OK
SWMH_35	FEH: 100 years: +0 %: 15 mins: Summer	50.730	49.630	49.747	9.4	0.132	0.000	5.7	4.204	OK
SWMH_21	FEH: 100 years: +0 %: 15 mins: Summer	54.120	52.052	52.243	151.0	0.216	0.000	148.3	97.342	OK
SWMH_14	FEH: 100 years: +0 %: 15 mins: Summer	57.796	55.425	55.727	28.6	0.341	0.000	26.0	14.747	Surcharged
SWMH_6	FEH: 100 years: +0 %: 15 mins: Summer	58.868	57.293	57.423	20.4	0.037	0.000	19.1	9.041	OK
SWMH_2	FEH: 100 years: +0 %: 15 mins: Summer	59.921	58.915	58.966	8.2	0.014	0.000	8.0	3.641	OK
SWMH_8	FEH: 100 years: +0 %: 15 mins: Summer	56.728	55.272	55.791	93.7	0.743	0.000	88.7	45.943	Surcharged
SWMH_32	FEH: 100 years: +0 %: 15 mins: Summer	53.840	51.952	52.010	8.3	0.065	0.000	8.0	3.602	OK
SWMH_27	FEH: 100 years: +0 %: 15 mins: Summer	53.779	52.779	52.828	5.7	0.055	0.000	5.5	2.662	OK
SWMH_15	FEH: 100 years: +0 %: 15 mins: Summer	57.753	56.427	56.457	2.0	0.034	0.000	1.9	0.858	OK
SWMH_40	FEH: 100 years: +0 %: 15 mins: Summer	52.968	51.590	51.624	0.5	0.039	0.000	0.0	0.078	OK
SWMH_39	FEH: 100 years: +0 %: 15 mins: Summer	52.931	51.731	51.731	0.0	0.000	0.000	0.0	0.000	OK

Land West off Gatesmead Avenue :

Date:
25/06/2026

Designed by:
SS

Checked by:
TC

Approved By:

Report Details:
Type: Junctions Summary
Storm Phase: Phase

Ridge and Partners LLP:

RIDGE



FEH: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Resident Volume

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
SWMH_5	FEH: 100 years: +45 %: 15 mins: Summer	59.117	57.517	57.728	13.3	0.060	0.000	8.1	5.898	Surcharged
SWMH_4	FEH: 100 years: +45 %: 15 mins: Summer	59.038	56.975	57.479	74.3	0.570	0.000	65.1	37.938	Surcharged
SWMH_7	FEH: 100 years: +45 %: 15 mins: Summer	57.807	55.605	57.096	106.2	1.686	0.000	97.9	55.806	Surcharged
SWMH_9	FEH: 100 years: +45 %: 30 mins: Summer	56.020	53.820	55.736	101.6	2.167	0.000	101.2	94.957	Flood Risk
SWMH_10	FEH: 100 years: +45 %: 30 mins: Summer	55.356	53.574	55.170	170.6	2.819	0.000	165.2	176.507	Flood Risk
SWMH_20	FEH: 100 years: +45 %: 15 mins: Summer	54.660	52.160	52.436	183.0	0.312	0.000	181.7	136.760	OK
SWMH_22	FEH: 100 years: +45 %: 15 mins: Summer	53.544	51.732	51.946	200.5	0.243	0.000	196.3	146.011	OK
SWMH_23	FEH: 100 years: +45 %: 15 mins: Summer	52.379	51.088	51.424	317.7	0.594	0.000	309.6	207.447	OK
SWMH_29	FEH: 100 years: +45 %: 15 mins: Summer	51.924	50.724	51.054	317.4	0.545	0.000	309.8	210.580	OK
SWMH_30	FEH: 100 years: +45 %: 30 mins: Summer	51.682	49.682	50.695	325.8	1.790	0.000	323.7	317.151	Surcharged
SWMH_34	FEH: 100 years: +45 %: 30 mins: Summer	50.988	49.367	50.347	352.7	1.731	0.000	352.1	343.602	Surcharged
SWMH_36	FEH: 100 years: +45 %: 30 mins: Summer	50.665	49.237	50.105	352.1	0.982	0.000	351.7	343.323	Surcharged
SWMH_37	FEH: 100 years: +45 %: 30 mins: Summer	50.759	48.952	49.843	440.0	1.574	0.000	439.5	420.581	Surcharged
SWMH_44	FEH: 100 years: +45 %: 30 mins: Summer	50.319	48.625	49.350	460.7	1.282	0.000	460.4	438.742	Surcharged
SWMH_13	FEH: 100 years: +45 %: 15 mins: Summer	58.021	55.622	56.232	26.3	0.690	0.000	22.2	15.147	Surcharged
SWMH_11	FEH: 100 years: +45 %: 30 mins: Summer	57.185	55.160	55.458	33.4	0.338	0.000	33.2	31.527	Surcharged
SWMH_16	FEH: 100 years: +45 %: 30 mins: Summer	55.879	54.730	55.335	56.9	0.866	0.000	56.8	51.908	Surcharged
SWMH_1	FEH: 100 years: +45 %: 15 mins: Summer	59.990	58.990	59.067	9.1	0.022	0.000	8.9	3.940	OK
SWMH_3	FEH: 100 years: +45 %: 15 mins: Summer	59.691	58.291	58.413	24.7	0.035	0.000	23.1	10.913	OK
SWMH_17	FEH: 100 years: +45 %: 30 mins: Summer	55.496	54.396	55.179	7.0	0.498	0.000	6.6	6.501	Surcharged
SWMH_18	FEH: 100 years: +45 %: 30 mins: Summer	55.257	54.233	55.176	15.4	0.600	0.000	15.3	13.845	Flood Risk
SWMH_19	FEH: 100 years: +45 %: 15 mins: Summer	55.163	54.144	55.171	15.0	8.906	8.257	8.7	17.286	Flood
SWMH_31	FEH: 100 years: +45 %: 15 mins: Summer	53.931	52.131	52.155	1.6	0.027	0.000	1.5	0.685	OK
SWMH_33	FEH: 100 years: +45 %: 15 mins: Summer	53.684	51.684	51.775	18.9	0.104	0.000	17.5	8.237	OK
SWMH_38	FEH: 100 years: +45 %: 15 mins: Summer	52.919	51.524	51.648	37.2	0.140	0.000	37.6	16.330	OK
SWMH_42	FEH: 100 years: +45 %: 15 mins: Summer	52.553	51.011	51.261	87.7	0.283	0.000	85.3	42.156	Surcharged
SWMH_43	FEH: 100 years: +45 %: 15 mins: Summer	52.047	50.047	50.165	103.1	0.134	0.000	102.3	49.705	OK
SWMH_28	FEH: 100 years: +45 %: 15 mins: Summer	52.710	51.582	51.683	20.5	0.114	0.000	19.9	8.899	OK
SWMH_24	FEH: 100 years: +45 %: 15 mins: Summer	54.242	52.942	53.059	21.4	0.133	0.000	20.9	9.279	OK
SWMH_25	FEH: 100 years: +45 %: 15 mins: Summer	53.866	52.745	52.869	20.9	0.141	0.000	20.2	9.267	OK
SWMH_26	FEH: 100 years: +45 %: 15 mins: Summer	53.644	52.539	52.688	28.3	0.169	0.000	25.4	13.279	OK
SWMH_45	FEH: 100 years: +45 %: 960 mins: Winter	49.397	47.583	49.038	11.1	1.646	0.000	11.0	1012.701	Surcharged
SWMH_46	FEH: 100 years: +45 %: 1440 mins: Winter	49.096	47.544	47.623	11.0	0.088	0.000	11.0	1429.577	OK
SWMH_47	FEH: 100 years: +45 %: 15 mins: Summer		47.453	47.519	8.5			8.5	12.201	OK
SWMH_12	FEH: 100 years: +45 %: 15 mins: Summer	56.839	55.867	56.233	10.5	0.232	0.000	10.9	5.187	Surcharged
SWMH_41	FEH: 100 years: +45 %: 15 mins: Summer	52.702	51.225	51.458	65.7	0.264	0.000	56.0	28.402	Surcharged
SWMH_35	FEH: 100 years: +45 %: 30 mins: Summer	50.730	49.630	50.348	9.3	0.812	0.000	9.9	9.382	Surcharged
SWMH_21	FEH: 100 years: +45 %: 15 mins: Summer	54.120	52.052	52.277	194.9	0.255	0.000	192.3	142.497	OK
SWMH_14	FEH: 100 years: +45 %: 15 mins: Summer	57.796	55.425	55.942	36.3	0.584	0.000	33.3	21.332	Surcharged
SWMH_6	FEH: 100 years: +45 %: 15 mins: Summer	58.868	57.293	57.697	24.5	0.114	0.000	18.4	13.072	Surcharged
SWMH_2	FEH: 100 years: +45 %: 15 mins: Summer	59.921	58.915	58.977	11.9	0.018	0.000	11.7	5.271	OK
SWMH_8	FEH: 100 years: +45 %: 30 mins: Summer	56.728	55.272	56.332	100.9	1.516	0.000	96.9	91.596	Surcharged
SWMH_32	FEH: 100 years: +45 %: 15 mins: Summer	53.840	51.952	52.024	12.0	0.082	0.000	11.7	5.236	OK
SWMH_27	FEH: 100 years: +45 %: 15 mins: Summer	53.779	52.779	52.838	8.2	0.067	0.000	8.1	4.039	OK
SWMH_15	FEH: 100 years: +45 %: 15 mins: Summer	57.753	56.427	56.463	2.9	0.041	0.000	2.7	1.248	OK
SWMH_40	FEH: 100 years: +45 %: 15 mins: Summer	52.968	51.590	51.649	0.2	0.067	0.000	0.1	0.197	OK
SWMH_39	FEH: 100 years: +45 %: 15 mins: Summer	52.931	51.731	51.731	0.0	0.000	0.000	0.0	0.000	OK

Land West off Gatesmead Avenue :	Date: 25/06/2026		
	Designed by: SS	Checked by: TC	Approved By:
	Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		
Ridge and Partners LLP:			



FEH: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Velocity (m/s)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)	Status
Pond	FEH: 2 years: +0 %: 480 mins: Summer	0.434	42.9	227.729	0.000	0.000		10.1	279.873		73.793	OK
Porous Paving	FEH: 2 years: +0 %: 1440 mins: Summer	0.139	0.3	6.288	0.000	0.000		0.0	0.000		69.692	OK
Porous Paving (1)	FEH: 2 years: +0 %: 1440 mins: Summer	0.024	0.1	1.609	0.000	0.000		0.0	1.205		81.072	OK
Porous Paving (2)	FEH: 2 years: +0 %: 120 mins: Summer	0.007	0.4	0.603	0.000	0.000		0.1	0.793		90.351	OK
Porous Paving (3)	FEH: 2 years: +0 %: 1440 mins: Summer	0.014	0.1	1.719	0.000	0.000		0.0	1.320		81.285	OK
Porous Paving (4)	FEH: 2 years: +0 %: 1440 mins: Summer	0.006	0.1	1.051	0.000	0.000		0.0	0.935		76.170	OK
Porous Paving (5)	FEH: 2 years: +0 %: 1440 mins: Summer	0.037	0.1	1.638	0.000	0.000		0.0	2.009		84.224	OK
Porous Paving (6)	FEH: 2 years: +0 %: 1440 mins: Summer	0.002	0.1	0.876	0.000	0.000		0.0	0.850		80.242	OK
Porous Paving (7)	FEH: 2 years: +0 %: 1440 mins: Summer	0.002	0.1	0.909	0.000	0.000		0.0	0.872		78.050	OK
Porous Paving (8)	FEH: 2 years: +0 %: 1440 mins: Summer	0.042	0.1	1.261	0.000	0.000		0.0	0.736		75.282	OK
Porous Paving (9)	FEH: 2 years: +0 %: 1440 mins: Summer	0.023	0.1	0.744	0.000	0.000		0.0	1.245		86.077	OK
Porous Paving (10)	FEH: 2 years: +0 %: 1440 mins: Summer	0.024	0.1	1.544	0.000	0.000		0.0	1.315		81.583	OK
Porous Paving (11)	FEH: 2 years: +0 %: 1440 mins: Summer	0.021	0.1	1.056	0.000	0.000		0.0	0.734		78.205	OK
Porous Paving (12)	FEH: 2 years: +0 %: 1440 mins: Winter	0.022	0.1	1.984	0.000	0.000		0.0	1.537		79.704	OK
Porous Paving (14)	FEH: 2 years: +0 %: 1440 mins: Summer	0.020	0.1	0.650	0.000	0.000		0.0	1.075		85.371	OK
Porous Paving (15)	FEH: 2 years: +0 %: 1440 mins: Summer	0.069	0.1	1.453	0.000	0.000		0.0	0.545		74.887	OK
Porous Paving (16)	FEH: 2 years: +0 %: 1440 mins: Summer	0.055	0.1	1.271	0.000	0.000		0.0	0.599		75.581	OK
Porous Paving (17)	FEH: 2 years: +0 %: 1440 mins: Winter	0.024	0.1	2.971	0.000	0.000		0.0	2.184		80.819	OK
Porous Paving (18)	FEH: 2 years: +0 %: 1440 mins: Summer	0.045	0.1	1.069	0.000	0.000		0.0	1.210		81.866	OK
Porous Paving (19)	FEH: 2 years: +0 %: 240 mins: Summer	0.009	0.6	1.592	0.000	0.000		0.2	2.099		86.821	OK
Porous Paving (21)	FEH: 2 years: +0 %: 1440 mins: Summer	0.137	0.1	2.796	0.000	0.000		0.0	0.000		70.165	OK
Porous Paving (22)	FEH: 2 years: +0 %: 1440 mins: Summer	0.057	0.1	1.117	0.000	0.000		0.0	0.577		74.942	OK
Porous Paving (23)	FEH: 2 years: +0 %: 1440 mins: Summer	0.138	0.1	1.505	0.000	0.000		0.0	0.336		74.936	OK
Porous Paving (24)	FEH: 2 years: +0 %: 1440 mins: Winter	0.098	0.2	5.249	0.000	0.000		0.0	0.756		71.999	OK
Porous Paving (25)	FEH: 2 years: +0 %: 1440 mins: Winter	0.022	0.1	2.079	0.000	0.000		0.0	1.391		79.927	OK
Porous Paving (26)	FEH: 2 years: +0 %: 1440 mins: Summer	0.015	0.1	0.661	0.000	0.000		0.0	1.089		85.539	OK
Porous Paving (28)	FEH: 2 years: +0 %: 1440 mins: Summer	0.004	0.1	1.618	0.000	0.000		0.0	1.550		82.322	OK
Porous Paving (29)	FEH: 2 years: +0 %: 1440 mins: Summer	0.097	0.1	1.762	0.000	0.000		0.0	0.394		73.289	OK
Porous Paving (30)	FEH: 2 years: +0 %: 1440 mins: Summer	0.147	0.1	1.398	0.000	0.000		0.0	0.000		67.869	OK
Porous Paving (31)	FEH: 2 years: +0 %: 1440 mins: Summer	0.139	0.1	1.830	0.000	0.000		0.0	0.000		68.893	OK
Porous Paving (32)	FEH: 2 years: +0 %: 960 mins: Winter	0.122	0.0	0.870	0.000	0.000		0.0	0.000		72.046	OK

Land West off Gatesmead Avenue :	Date: 25/06/2026											
	Designed by: SS					Checked by: TC			Approved By:			
	Ridge and Partners LLP:											
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase												

Porous Paving (33)	FEH: 2 years: +0 %: 1440 mins: Summer	0.139	0.1	2.550	0.000	0.000		0.0	0.000		69.908	OK
Swale 2	FEH: 2 years: +0 %: 15 mins: Summer	0.083	17.6	1.348	0.000	0.000	0.2	14.3	7.905		96.031	OK
Porous Paving 34	FEH: 2 years: +0 %: 1440 mins: Summer	0.149	0.1	1.314	0.000	0.000		0.0	0.000		67.593	OK
Porous Paving 35	FEH: 2 years: +0 %: 1440 mins: Summer	0.145	0.1	1.812	0.000	0.000		0.0	0.000		68.273	OK
Porous Paving 36	FEH: 2 years: +0 %: 1440 mins: Summer	0.144	0.1	1.842	0.000	0.000		0.0	0.000		68.712	OK
Swale 1	FEH: 2 years: +0 %: 240 mins: Summer	0.405	1.9	4.171	0.000	0.000	0.1	1.5	3.644		71.659	OK

Land West off Gatesmead Avenue :	Date: 25/06/2026		
	Designed by: SS	Checked by: TC	Approved By:
	Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		
Ridge and Partners LLP:			



FEH: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Velocity (m/s)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)	Status
Pond	FEH: 30 years: +0 %: 480 mins: Winter	0.812	50.0	464.948	0.000	0.000		8.4	327.479	80	46.494	OK
Porous Paving	FEH: 30 years: +0 %: 1440 mins: Winter	0.234	0.3	10.902	0.000	0.000		0.0	0.000		47.452	OK
Porous Paving (1)	FEH: 30 years: +0 %: 1440 mins: Summer	0.050	0.2	2.717	0.000	0.000		0.0	2.360		68.032	OK
Porous Paving (2)	FEH: 30 years: +0 %: 120 mins: Summer	0.009	0.8	1.154	0.000	0.000		0.3	1.608		81.536	OK
Porous Paving (3)	FEH: 30 years: +0 %: 1440 mins: Summer	0.021	0.2	2.906	0.000	0.000		0.1	2.489		68.367	OK
Porous Paving (4)	FEH: 30 years: +0 %: 960 mins: Winter	0.009	0.1	1.622	0.000	0.000		0.0	1.273		63.235	OK
Porous Paving (5)	FEH: 30 years: +0 %: 1440 mins: Summer	0.079	0.2	2.962	0.000	0.000		0.1	3.875		71.474	OK
Porous Paving (6)	FEH: 30 years: +0 %: 1440 mins: Winter	0.003	0.1	1.289	0.000	0.000		0.0	1.368		70.924	OK
Porous Paving (7)	FEH: 30 years: +0 %: 960 mins: Winter	0.003	0.1	1.356	0.000	0.000		0.0	1.209		67.283	OK
Porous Paving (8)	FEH: 30 years: +0 %: 1440 mins: Winter	0.050	0.1	2.031	0.000	0.000		0.0	1.492		60.193	OK
Porous Paving (9)	FEH: 30 years: +0 %: 360 mins: Summer	0.077	0.3	1.347	0.000	0.000		0.1	1.147		74.799	OK
Porous Paving (10)	FEH: 30 years: +0 %: 1440 mins: Summer	0.051	0.2	2.641	0.000	0.000		0.0	2.541		68.497	OK
Porous Paving (11)	FEH: 30 years: +0 %: 1440 mins: Summer	0.036	0.1	1.605	0.000	0.000		0.0	1.293		66.867	OK
Porous Paving (12)	FEH: 30 years: +0 %: 1440 mins: Winter	0.049	0.2	3.317	0.000	0.000		0.0	2.839		66.063	OK
Porous Paving (14)	FEH: 30 years: +0 %: 360 mins: Summer	0.069	0.3	1.067	0.000	0.000		0.1	0.951		75.997	OK
Porous Paving (15)	FEH: 30 years: +0 %: 1440 mins: Winter	0.080	0.1	2.234	0.000	0.000		0.0	1.272		61.401	OK
Porous Paving (16)	FEH: 30 years: +0 %: 1440 mins: Summer	0.065	0.1	1.863	0.000	0.000		0.0	1.189		64.209	OK
Porous Paving (17)	FEH: 30 years: +0 %: 1440 mins: Summer	0.062	0.4	5.061	0.000	0.000		0.1	4.185		67.323	OK
Porous Paving (18)	FEH: 30 years: +0 %: 1440 mins: Winter	0.047	0.1	1.555	0.000	0.000		0.1	2.478		73.606	OK
Porous Paving (19)	FEH: 30 years: +0 %: 120 mins: Summer	0.012	1.6	2.810	0.000	0.000		0.4	2.647		76.732	OK
Porous Paving (21)	FEH: 30 years: +0 %: 1440 mins: Winter	0.161	0.1	4.393	0.000	0.000		0.0	0.900		53.118	OK
Porous Paving (22)	FEH: 30 years: +0 %: 1440 mins: Summer	0.071	0.1	1.579	0.000	0.000		0.0	1.094		64.569	OK
Porous Paving (23)	FEH: 30 years: +0 %: 1440 mins: Summer	0.140	0.1	2.003	0.000	0.000		0.0	0.960		66.636	OK
Porous Paving (24)	FEH: 30 years: +0 %: 1440 mins: Winter	0.101	0.3	7.849	0.000	0.000		0.1	2.713		58.133	OK
Porous Paving (25)	FEH: 30 years: +0 %: 1440 mins: Winter	0.047	0.2	3.481	0.000	0.000		0.0	2.584		66.397	OK
Porous Paving (26)	FEH: 30 years: +0 %: 360 mins: Summer	0.057	0.3	1.007	0.000	0.000		0.1	0.976		77.974	OK
Porous Paving (28)	FEH: 30 years: +0 %: 1440 mins: Summer	0.005	0.2	2.723	0.000	0.000		0.1	2.903		70.241	OK
Porous Paving (29)	FEH: 30 years: +0 %: 1440 mins: Winter	0.099	0.1	2.644	0.000	0.000		0.0	1.178		59.916	OK
Porous Paving (30)	FEH: 30 years: +0 %: 1440 mins: Summer	0.224	0.1	2.184	0.000	0.000		0.0	0.000		49.804	OK
Porous Paving (31)	FEH: 30 years: +0 %: 1440 mins: Winter	0.233	0.1	3.138	0.000	0.000		0.0	0.000		46.656	OK
Porous Paving (32)	FEH: 30 years: +0 %: 1440 mins: Summer	0.226	0.1	1.662	0.000	0.000		0.0	0.000		46.599	OK

Land West off Gatesmead Avenue :	Date: 25/06/2026										
	Designed by: SS					Checked by: TC			Approved By:		
	Ridge and Partners LLP:										

Report Details:										
Type: Stormwater Controls Summary										
Storm Phase: Phase										

Porous Paving (33)	FEH: 30 years: +0 %: 1440 mins: Summer	0.236	0.2	4.476	0.000	0.000		0.0	0.000		47.179	OK
Swale 2	FEH: 30 years: +0 %: 15 mins: Summer	0.135	38.7	2.528	0.000	0.000	0.3	31.8	17.418		92.557	OK
Porous Paving 34	FEH: 30 years: +0 %: 1440 mins: Summer	0.234	0.1	2.136	0.000	0.000		0.0	0.000		47.320	OK
Porous Paving 35	FEH: 30 years: +0 %: 1440 mins: Winter	0.244	0.1	3.126	0.000	0.000		0.0	0.000		45.263	OK
Porous Paving 36	FEH: 30 years: +0 %: 1440 mins: Winter	0.192	0.1	2.957	0.000	0.000		0.0	0.399	45	49.778	OK
Swale 1	FEH: 30 years: +0 %: 60 mins: Summer	0.434	7.7	4.798	0.000	0.000	0.2	7.1	5.837		67.402	OK

Land West off Gatesmead Avenue :

Date:
25/06/2026

Designed by:
SS

Checked by:
TC

Approved By:

Report Details:
Type: Stormwater Controls Summary
Storm Phase: Phase

Ridge and Partners LLP:

RIDGE



FEH: 30 years: Increase Rainfall (%): +35: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Velocity (m/s)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)	Status
Pond	FEH: 30 years: +35 %: 480 mins: Winter	1.087	67.8	661.152	0.000	0.000		9.7	376.010	455	23.915	OK
Porous Paving	FEH: 30 years: +35 %: 1440 mins: Winter	0.310	0.4	14.664	0.000	0.000		0.0	0.000		29.319	OK
Porous Paving (1)	FEH: 30 years: +35 %: 1440 mins: Summer	0.076	0.3	3.661	0.000	0.000		0.1	3.353		56.924	OK
Porous Paving (2)	FEH: 30 years: +35 %: 120 mins: Summer	0.011	1.1	1.505	0.000	0.000		0.4	2.176		75.916	OK
Porous Paving (3)	FEH: 30 years: +35 %: 1440 mins: Summer	0.030	0.3	3.858	0.000	0.000		0.1	3.561		58.008	OK
Porous Paving (4)	FEH: 30 years: +35 %: 1440 mins: Summer	0.013	0.1	2.110	0.000	0.000		0.0	2.341		52.182	OK
Porous Paving (5)	FEH: 30 years: +35 %: 1440 mins: Summer	0.120	0.3	4.077	0.000	0.000		0.1	5.444		60.735	OK
Porous Paving (6)	FEH: 30 years: +35 %: 1440 mins: Winter	0.003	0.1	1.759	0.000	0.000		0.0	2.011		60.320	OK
Porous Paving (7)	FEH: 30 years: +35 %: 1440 mins: Winter	0.004	0.1	1.843	0.000	0.000		0.0	2.175		55.512	OK
Porous Paving (8)	FEH: 30 years: +35 %: 1440 mins: Summer	0.081	0.2	2.591	0.000	0.000		0.0	2.143	60	49.226	OK
Porous Paving (9)	FEH: 30 years: +35 %: 480 mins: Summer	0.104	0.4	1.876	0.000	0.000		0.1	1.793		64.908	OK
Porous Paving (10)	FEH: 30 years: +35 %: 1440 mins: Summer	0.079	0.3	3.603	0.000	0.000		0.1	3.579		57.023	OK
Porous Paving (11)	FEH: 30 years: +35 %: 1440 mins: Winter	0.037	0.1	2.143	0.000	0.000		0.0	1.896		55.774	OK
Porous Paving (12)	FEH: 30 years: +35 %: 1440 mins: Summer	0.092	0.3	4.537	0.000	0.000		0.1	4.021		53.588	OK
Porous Paving (14)	FEH: 30 years: +35 %: 360 mins: Winter	0.094	0.3	1.483	0.000	0.000		0.1	1.336		66.628	OK
Porous Paving (15)	FEH: 30 years: +35 %: 1440 mins: Summer	0.108	0.2	2.823	0.000	0.000		0.0	1.915		51.212	OK
Porous Paving (16)	FEH: 30 years: +35 %: 1440 mins: Winter	0.065	0.1	2.454	0.000	0.000		0.0	1.840		52.845	OK
Porous Paving (17)	FEH: 30 years: +35 %: 1440 mins: Summer	0.093	0.5	6.991	0.000	0.000		0.1	6.040		54.860	OK
Porous Paving (18)	FEH: 30 years: +35 %: 1440 mins: Summer	0.052	0.2	1.933	0.000	0.000		0.1	3.552		67.190	OK
Porous Paving (19)	FEH: 30 years: +35 %: 120 mins: Summer	0.015	2.2	3.686	0.000	0.000		0.6	3.676		69.477	OK
Porous Paving (21)	FEH: 30 years: +35 %: 1440 mins: Summer	0.164	0.3	5.330	0.000	0.000		0.1	1.906		43.125	OK
Porous Paving (22)	FEH: 30 years: +35 %: 1440 mins: Winter	0.072	0.1	2.072	0.000	0.000		0.0	1.692		53.502	OK
Porous Paving (23)	FEH: 30 years: +35 %: 1440 mins: Winter	0.140	0.1	2.511	0.000	0.000		0.0	1.642		58.180	OK
Porous Paving (24)	FEH: 30 years: +35 %: 1440 mins: Winter	0.102	0.4	9.979	0.000	0.000		0.1	4.504	800	46.769	OK
Porous Paving (25)	FEH: 30 years: +35 %: 1440 mins: Winter	0.073	0.2	4.684	0.000	0.000		0.1	3.661		54.780	OK
Porous Paving (26)	FEH: 30 years: +35 %: 240 mins: Summer	0.091	0.5	1.398	0.000	0.000		0.1	1.153		69.416	OK
Porous Paving (28)	FEH: 30 years: +35 %: 1440 mins: Summer	0.005	0.3	3.595	0.000	0.000		0.1	4.097		60.720	OK
Porous Paving (29)	FEH: 30 years: +35 %: 1440 mins: Summer	0.101	0.2	3.292	0.000	0.000		0.1	1.831		50.097	OK
Porous Paving (30)	FEH: 30 years: +35 %: 1440 mins: Winter	0.304	0.1	3.024	0.000	0.000		0.0	0.000		30.496	OK
Porous Paving (31)	FEH: 30 years: +35 %: 1440 mins: Summer	0.306	0.2	4.182	0.000	0.000		0.0	0.000		28.911	OK
Porous Paving (32)	FEH: 30 years: +35 %: 1440 mins: Summer	0.285	0.1	2.124	0.000	0.000		0.0	0.000		31.754	OK

Land West off Gatesmead Avenue :	Date: 25/06/2026		
	Designed by: SS	Checked by: TC	Approved By:
	Ridge and Partners LLP:		

Report Details:
Type: Stormwater Controls Summary
Storm Phase: Phase

RIDGE

Porous Paving (33)	FEH: 30 years: +35 %: 1440 mins: Winter	0.308	0.2	5.946	0.000	0.000		0.0	0.000		29.830	OK
Swale 2	FEH: 30 years: +35 %: 15 mins: Summer	0.164	52.2	3.308	0.000	0.000	0.3	42.3	23.630		90.261	OK
Porous Paving 34	FEH: 30 years: +35 %: 1440 mins: Summer	0.305	0.1	2.844	0.000	0.000		0.0	0.000		29.859	OK
Porous Paving 35	FEH: 30 years: +35 %: 1440 mins: Summer	0.296	0.2	4.103	0.000	0.000		0.0	0.218		28.156	OK
Porous Paving 36	FEH: 30 years: +35 %: 1440 mins: Summer	0.205	0.2	3.558	0.000	0.000		0.0	1.067		39.565	OK
Swale 1	FEH: 30 years: +35 %: 30 mins: Summer	0.448	11.6	5.122	0.000	0.000	0.2	10.9	6.279		65.201	OK

Land West off Gatesmead Avenue :	Date: 25/06/2026		
	Designed by: SS	Checked by: TC	Approved By:
	Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		
Ridge and Partners LLP:			



FEH: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Velocity (m/s)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)	Status
Pond	FEH: 100 years: +0 %: 480 mins: Winter	1.007	62.3	601.761	0.000	0.000		9.4	362.936	345	30.750	OK
Porous Paving	FEH: 100 years: +0 %: 1440 mins: Summer	0.294	0.6	13.878	0.000	0.000		0.0	0.000		33.108	OK
Porous Paving (1)	FEH: 100 years: +0 %: 1440 mins: Winter	0.057	0.2	3.456	0.000	0.000		0.0	3.159		59.336	OK
Porous Paving (2)	FEH: 100 years: +0 %: 60 mins: Summer	0.011	1.4	1.435	0.000	0.000		0.4	1.373		77.028	OK
Porous Paving (3)	FEH: 100 years: +0 %: 1440 mins: Winter	0.020	0.2	3.678	0.000	0.000		0.1	3.325		59.958	OK
Porous Paving (4)	FEH: 100 years: +0 %: 1440 mins: Summer	0.012	0.1	1.997	0.000	0.000		0.0	2.164		54.741	OK
Porous Paving (5)	FEH: 100 years: +0 %: 1440 mins: Summer	0.112	0.3	3.854	0.000	0.000		0.1	5.109		62.880	OK
Porous Paving (6)	FEH: 100 years: +0 %: 1440 mins: Winter	0.003	0.1	1.679	0.000	0.000		0.0	1.892		62.135	OK
Porous Paving (7)	FEH: 100 years: +0 %: 1440 mins: Winter	0.003	0.1	1.762	0.000	0.000		0.0	2.042		57.483	OK
Porous Paving (8)	FEH: 100 years: +0 %: 1440 mins: Summer	0.077	0.2	2.483	0.000	0.000		0.0	2.011		51.338	OK
Porous Paving (9)	FEH: 100 years: +0 %: 960 mins: Summer	0.080	0.2	1.738	0.000	0.000		0.1	2.299		67.475	OK
Porous Paving (10)	FEH: 100 years: +0 %: 1440 mins: Summer	0.073	0.3	3.391	0.000	0.000		0.1	3.337		59.550	OK
Porous Paving (11)	FEH: 100 years: +0 %: 1440 mins: Winter	0.035	0.1	2.057	0.000	0.000		0.0	1.789		57.534	OK
Porous Paving (12)	FEH: 100 years: +0 %: 1440 mins: Summer	0.086	0.3	4.309	0.000	0.000		0.1	3.808		55.919	OK
Porous Paving (14)	FEH: 100 years: +0 %: 960 mins: Summer	0.067	0.2	1.364	0.000	0.000		0.1	1.945		69.303	OK
Porous Paving (15)	FEH: 100 years: +0 %: 1440 mins: Summer	0.105	0.2	2.741	0.000	0.000		0.0	1.821		52.631	OK
Porous Paving (16)	FEH: 100 years: +0 %: 1440 mins: Winter	0.063	0.1	2.352	0.000	0.000		0.0	1.719		54.815	OK
Porous Paving (17)	FEH: 100 years: +0 %: 1440 mins: Summer	0.087	0.5	6.585	0.000	0.000		0.1	5.640		57.480	OK
Porous Paving (18)	FEH: 100 years: +0 %: 1440 mins: Summer	0.051	0.2	1.849	0.000	0.000		0.1	3.325		68.623	OK
Porous Paving (19)	FEH: 100 years: +0 %: 120 mins: Summer	0.014	2.0	3.440	0.000	0.000		0.5	3.383		71.513	OK
Porous Paving (21)	FEH: 100 years: +0 %: 1440 mins: Summer	0.164	0.3	5.148	0.000	0.000		0.1	1.705	1125	45.064	OK
Porous Paving (22)	FEH: 100 years: +0 %: 1440 mins: Winter	0.070	0.1	2.012	0.000	0.000		0.0	1.613		54.851	OK
Porous Paving (23)	FEH: 100 years: +0 %: 1440 mins: Winter	0.140	0.1	2.424	0.000	0.000		0.0	1.511		59.613	OK
Porous Paving (24)	FEH: 100 years: +0 %: 1440 mins: Winter	0.102	0.4	9.562	0.000	0.000		0.1	4.139	260	48.998	OK
Porous Paving (25)	FEH: 100 years: +0 %: 1440 mins: Winter	0.067	0.2	4.463	0.000	0.000		0.1	3.461		56.909	OK
Porous Paving (26)	FEH: 100 years: +0 %: 360 mins: Summer	0.074	0.4	1.268	0.000	0.000		0.1	1.225		72.260	OK
Porous Paving (28)	FEH: 100 years: +0 %: 1440 mins: Winter	0.004	0.2	3.430	0.000	0.000		0.1	3.816		62.517	OK
Porous Paving (29)	FEH: 100 years: +0 %: 1440 mins: Summer	0.101	0.2	3.180	0.000	0.000		0.1	1.714		51.801	OK
Porous Paving (30)	FEH: 100 years: +0 %: 1440 mins: Summer	0.280	0.1	2.772	0.000	0.000		0.0	0.000		36.289	OK
Porous Paving (31)	FEH: 100 years: +0 %: 1440 mins: Summer	0.291	0.2	3.966	0.000	0.000		0.0	0.000		32.582	OK
Porous Paving (32)	FEH: 100 years: +0 %: 1440 mins: Summer	0.271	0.1	2.016	0.000	0.000		0.0	0.000		35.224	OK

Land West off Gatesmead Avenue :	Date: 25/06/2026										
	Designed by: SS					Checked by: TC			Approved By:		
	Ridge and Partners LLP:										

Report Details:									
Type: Stormwater Controls Summary									
Storm Phase: Phase									

Porous Paving (33)	FEH: 100 years: +0 %: 1440 mins: Winter	0.296	0.2	5.688	0.000	0.000		0.0	0.000		32.875	OK
Swale 2	FEH: 100 years: +0 %: 15 mins: Summer	0.157	48.9	3.113	0.000	0.000	0.3	39.9	22.108		90.834	OK
Porous Paving 34	FEH: 100 years: +0 %: 1440 mins: Winter	0.287	0.1	2.664	0.000	0.000		0.0	0.000		34.297	OK
Porous Paving 35	FEH: 100 years: +0 %: 1440 mins: Summer	0.291	0.2	3.918	0.000	0.000		0.0	0.077		31.396	OK
Porous Paving 36	FEH: 100 years: +0 %: 1440 mins: Summer	0.203	0.2	3.471	0.000	0.000		0.0	0.965		41.035	OK
Swale 1	FEH: 100 years: +0 %: 30 mins: Summer	0.445	11.0	5.056	0.000	0.000	0.2	10.1	5.752		65.652	OK

Land West off Gatesmead Avenue :	Date: 25/06/2026		
	Designed by: SS	Checked by: TC	Approved By:
	Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		
Ridge and Partners LLP:			



FEH: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Velocity (m/s)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)	Status
Pond	FEH: 100 years: +45 %: 960 mins: Winter	1.435	54.9	940.517	0.000	0.000		11.1	889.123	965	-8.234	Flood Risk
Porous Paving	FEH: 100 years: +45 %: 1440 mins: Summer	0.670	0.9	20.135	0.554	0.000		0.0	0.000		2.945	Flood
Porous Paving (1)	FEH: 100 years: +45 %: 1440 mins: Summer	0.121	0.4	5.130	0.000	0.000		0.1	4.947	780	39.638	OK
Porous Paving (2)	FEH: 100 years: +45 %: 60 mins: Summer	0.013	2.0	2.010	0.000	0.000		0.6	2.054		67.832	OK
Porous Paving (3)	FEH: 100 years: +45 %: 1440 mins: Winter	0.032	0.3	5.188	0.000	0.000		0.1	5.188	520	43.524	OK
Porous Paving (4)	FEH: 100 years: +45 %: 960 mins: Summer	0.042	0.3	2.476	0.052	0.000		0.1	2.762	275	43.872	Flood
Porous Paving (5)	FEH: 100 years: +45 %: 1440 mins: Summer	0.190	0.4	5.640	0.000	0.000		0.1	7.993	420	45.684	OK
Porous Paving (6)	FEH: 100 years: +45 %: 1440 mins: Summer	0.082	0.2	2.564	0.000	0.000		0.1	2.889	585	42.176	OK
Porous Paving (7)	FEH: 100 years: +45 %: 1440 mins: Summer	0.005	0.2	2.383	0.000	0.000		0.1	3.117	610	42.496	OK
Porous Paving (8)	FEH: 100 years: +45 %: 1440 mins: Winter	0.093	0.2	3.440	0.007	0.000		0.1	3.187	1415	32.575	Flood
Porous Paving (9)	FEH: 100 years: +45 %: 960 mins: Summer	0.130	0.3	2.611	0.000	0.000		0.1	3.479		51.143	OK
Porous Paving (10)	FEH: 100 years: +45 %: 1440 mins: Summer	0.126	0.4	5.067	0.000	0.000		0.1	5.209	680	39.558	OK
Porous Paving (11)	FEH: 100 years: +45 %: 1440 mins: Winter	0.060	0.1	2.806	0.000	0.000		0.0	2.758	805	42.079	OK
Porous Paving (12)	FEH: 100 years: +45 %: 1440 mins: Summer	0.143	0.4	6.385	0.000	0.000		0.1	5.853	1035	34.681	OK
Porous Paving (14)	FEH: 100 years: +45 %: 960 mins: Summer	0.113	0.3	2.046	0.000	0.000		0.1	2.910		53.976	OK
Porous Paving (15)	FEH: 100 years: +45 %: 1440 mins: Winter	0.120	0.2	3.693	0.000	0.000		0.1	2.921	1320	36.184	OK
Porous Paving (16)	FEH: 100 years: +45 %: 1440 mins: Winter	0.079	0.1	3.215	0.000	0.000		0.1	2.814	1065	38.231	OK
Porous Paving (17)	FEH: 100 years: +45 %: 1440 mins: Summer	0.146	0.7	9.869	0.000	0.000		0.1	8.907	885	36.279	OK
Porous Paving (18)	FEH: 100 years: +45 %: 1440 mins: Summer	0.056	0.3	2.448	0.000	0.000		0.2	5.176		58.453	OK
Porous Paving (19)	FEH: 100 years: +45 %: 120 mins: Summer	0.018	3.0	4.812	0.000	0.000		0.8	5.099		60.153	OK
Porous Paving (21)	FEH: 100 years: +45 %: 1440 mins: Winter	0.164	0.3	6.754	0.000	0.000		0.1	3.585		27.929	OK
Porous Paving (22)	FEH: 100 years: +45 %: 1440 mins: Summer	0.111	0.2	2.661	0.000	0.000		0.1	2.570	970	40.293	OK
Porous Paving (23)	FEH: 100 years: +45 %: 1440 mins: Winter	0.141	0.1	3.104	0.000	0.000		0.1	2.543	305	48.289	OK
Porous Paving (24)	FEH: 100 years: +45 %: 1440 mins: Winter	0.104	0.5	12.948	0.000	0.000		0.2	7.254		30.935	OK
Porous Paving (25)	FEH: 100 years: +45 %: 1440 mins: Summer	0.136	0.5	6.595	0.000	0.000		0.1	5.361	1220	36.327	OK
Porous Paving (26)	FEH: 100 years: +45 %: 480 mins: Summer	0.109	0.4	1.912	0.000	0.000		0.1	2.120		58.182	OK
Porous Paving (28)	FEH: 100 years: +45 %: 1440 mins: Winter	0.005	0.3	4.827	0.000	0.000		0.1	5.904	230	47.251	OK
Porous Paving (29)	FEH: 100 years: +45 %: 1440 mins: Summer	0.101	0.3	4.251	0.000	0.000		0.1	2.884		35.561	OK
Porous Paving (30)	FEH: 100 years: +45 %: 1440 mins: Summer	0.665	0.2	4.146	0.056	0.000		0.0	0.000		4.710	Flood
Porous Paving (31)	FEH: 100 years: +45 %: 1440 mins: Winter	0.665	0.2	5.712	0.126	0.000		0.0	0.000		2.901	Flood
Porous Paving (32)	FEH: 100 years: +45 %: 1440 mins: Summer	0.379	0.1	2.856	0.000	0.000		0.0	0.000		8.233	OK

Land West off Gatesmead Avenue :	Date: 25/06/2026		
	Designed by: SS	Checked by: TC	Approved By:
	Ridge and Partners LLP:		

Report Details:
Type: Stormwater Controls Summary
Storm Phase: Phase

RIDGE

Porous Paving (33)	FEH: 100 years: +45 %: 1440 mins: Summer	0.669	0.4	8.202	0.220	0.000		0.0	0.000		3.208	Flood
Swale 2	FEH: 100 years: +45 %: 15 mins: Summer	0.202	69.5	4.479	0.000	0.000	0.3	54.7	32.264		86.812	OK
Porous Paving 34	FEH: 100 years: +45 %: 1440 mins: Summer	0.675	0.2	4.020	0.166	0.000		0.0	0.000		0.854	Flood
Porous Paving 35	FEH: 100 years: +45 %: 1440 mins: Winter	0.311	0.2	4.963	0.000	0.000		0.0	1.198		13.091	OK
Porous Paving 36	FEH: 100 years: +45 %: 1440 mins: Winter	0.231	0.2	4.429	0.000	0.000		0.0	2.120		24.765	OK
Swale 1	FEH: 100 years: +45 %: 30 mins: Summer	0.488	16.0	6.077	0.000	0.000	0.3	12.6	10.042		58.715	Flood Risk

Caroline Grist
Development Control
Mid Sussex District Council
Haywards Heath
West Sussex
RH16 1SS

**Lead Local Flood Authority
Ground Floor
Northleigh
County Hall
Chichester
West Sussex
PO19 1RH**

Date 23 June 2026

Dear Caroline,

DM/26/1315 - Land West Of Gatesmead, Wickham Way, Haywards Heath, West Sussex

Thank you for your consultation on the above site, received on 02 June 2026. For this consultation and wish to make the following comments.

This Full Application is for 49 new homes together with open space and associated infrastructure.

We **Object** to this planning application in the absence of an acceptable Flood Risk Assessment (FRA) and Drainage Strategy relating to:

- The development not complying with NPPF, PPG or National SUDs Standards and MSDC local policies.
- The objection points outlined below.

Reason

To prevent flooding in accordance with National Planning Policy Framework paragraph 181, 182 and 187 by ensuring the satisfactory management of local flood risk, surface water flow paths, storage and disposal of surface water from the site in a range of rainfall events and ensuring the SuDS proposed operates as designed for the lifetime of the development.

We will consider reviewing this objection if the following issues are adequately addressed.

1. The LLFA notes some testing has been completed however not to BRE 365 and in line with discharge hierarchy and infiltration has insufficient evidence to be ruled out. The scheme is required to also consider Reuse (Rainwater Harvesting?) prior to this.

2. The drainage layouts are shown as 'For information'. Whilst we appreciate that construction drawings cannot be provided at this stage, they should be confirmed at a sufficient level of detailed design.
3. Submission of hydraulic calculations have not used current parameters of FEH22, CV value of 1 and urban creep 10% allowance is required. The current calculation utilises old rainfall data and parameters.
4. Flood risk, surcharging is currently showing the 1 in 30 and 1 in 100.
5. Climate Change Allowances should be 45%.

Yours sincerely,

Mat Jackson
Flood Risk Management Team
FRM@westsussex.gov.uk