Technical Note
Surface Water Drainage: Response to LLFA Comments
Wickhurst Green, Broadbridge Heath, West Sussex

Project Number: 24184
Doc Number: 24184-MA-XX-XX-TN-D-0002
Prepared for: Vistry South East

8 July 2025

Rev	Issue Purpose	Author	Reviewed	Approved	Date
P01	For Information	HJ	BB	HJ	08/07/25

1. Introduction

1.1.1 Markides Associates were instructed by Vistry South East to prepare a Flood Risk Assessment (FRA), including a surface water and foul water Drainage Strategy (DS), to support a planning application located on land at Wickhurst Green, Broadbridge Heath, Horsham, West Sussex, within the administrative boundary of Horsham District Council (HDC), who act as the Local Planning Authority (LPA). The Lead Local Flood Authority (LLFA) for the site is West Sussex County Council (WSCC).

1.1.2 The development proposal includes the construction of 89 residential dwellings, with 36% allocated for affordable housing, as well as associated access and parking, and open space. Access to the site will be provided via Sargent Way, with additional pedestrian access from Broadbridge Way and Wickhurst Lane.

1.1.1 The application was submitted in June 2025 and backdated to the 29th of May 2025 (reference number: DC/25/0894). As response was received from the LLFA in a letter dated 2nd July 2025, objecting to the application. See below for the wording of the objection:

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

- *It appears that a ditch shown in the topographical survey is being infilled on the right-hand side of the site.*
- *It is unclear who will be maintaining the watercourse in the middle of the site.*

- *The calculations do not match the drainage strategy. Please ensure they do, and that the National Standards for SuDS are being followed as we are required to follow national guidance."*

1.1.2 Markides Associates have been appointed by Vistry South East to prepare a response to the LLFA comments. The aim of this response is to provide enough information to the LLFA to allow them to lift their objection to the planning application.

2. Response to LLFA Comments

2.1 Comment 1: It appears that a ditch shown in the topographical survey is being infilled on the right-hand side of the site.

2.1.1 The feature which has been picked up on the topographical survey is not a ditch relating to surface water for the existing site. It is in fact a mixture of bund and cutting to both the western field and eastern field which was installed to prevent unwanted vehicular access onto the land. Therefore, the infilling/removal of this feature will have no impact on the surface water drainage for the site.

2.2 Comment 2: It is unclear who will be maintaining the watercourse in the middle of the site.

2.2.1 The existing watercourse which runs through the middle of the site is an ordinary watercourse and therefore the landowner is responsible for the maintenance of the watercourse under Riparian Ownership.

2.2.2 A management company will be set up for the management of various elements of the development once it is occupied, including the watercourse. During the construction phase the contractor will be required to prepare a method statement relating to protection of the watercourse and pollution prevention.

2.3 Comment 3: The calculations do not match the drainage strategy. Please ensure they do, and that the National Standards for SuDS are being followed as we are required to follow national guidance.

2.3.1 The calculations and drainage strategy have now been updated so that all drainage components are numbered the same in both the calculations and drawings. No other discrepancies were found. Please see the updated calculations and drawings in Appendix A.

2.3.2 The principles of the National Standards for SuDS have been followed as far as practicable and we believe that most of the Standards have been met; it is our assumption that the comment above relates to Standard 2, which is the only Standard which has not been fully met and which states:

Standard 2: management of everyday rainfall (interception)

2.1 Apply a 'SuDS approach' so that at least the first 5mm of rainfall for the majority of rainfall events does not result in runoff from the site to surface waters or piped drainage systems.

2.2 Evidence shall be provided that the approach to managing runoff from 'everyday' rainfall has been developed alongside and in support of the management of runoff quality (standard 4) and the delivery of amenity and biodiversity benefits (standards 5 and 6).

2.3.3 It has not been possible to provide SuDS across the site in order to intercept the first 5mm of rainfall for the majority of rainfall events due to development specific constraints.

2.3.4 HDC, as LPA have made specific requests for increased density on site which has reduced the availability for above ground SuDS.

2.3.5 Permeable paving has been included in areas where it was deemed suitable, however due to levels, adoption or ownership and maintenance concerns it was not possible to include it in all roads or within all parking areas.

2.3.6 Filter strips have been included to intercept surface water run-off from roads in place of gullies where possible.

2.3.7 The use of SuDS to provide interception of the first 5mm of rainfall for the majority of rainfall events has been maximised as far as possible based on the space available, which as noted above, has been reduced due to HDC requirements relating to density.

2.3.8 Based on the response to the third comment provided above, and the information provided within the Flood Risk and Drainage Report (24184-MA-XX-XX-RP-D-0500-P02), the proposed design is in line with the requirements of the National Standards for SuDS.

APPENDIX A

DO NOT SCALE OFF THIS DRAWING

Notes:

1. This drawing is not to be used for construction; it is preliminary and intended for informational purposes only. It is subject to change during the design process.
2. All dimensions in metres unless otherwise stated.
3. Proposed works are based on the topographic survey provided by MK Surveys, (ref: 34921.dwg) dated October 2024.
4. This drawing is based upon drawing number 24.1945.1000T Wickhurst Green - Proposed Site Layout, supplied by FINC. Markides Associates shall not be liable for any inaccuracies or deficiencies.
5. No deviation from the details shown on this drawing is permitted without prior approval from the Engineer.

Existing watercourse to be culverted below proposed footway/cycleway, subject to detailed design and Ordinary Watercourse Consent from the LLFA

Infiltration Trench 1
Depth: 800mm

Infiltration Trench 2
Depth: 1100mm

Infiltration Trench 3
Depth: 540mm

Infiltration Trench 4
Depth: 1200mm

Infiltration Trench 5
Depth: 1000mm

Infiltration Trench 7
Depth: 600mm

Trench to be hand dug in RPAs with arboriculturalist consultant supervision as required

Permeable Paving 1
- 425mm Type 3 coarse graded aggregate subbase
- To drain directly into attenuation tank

Permeable Paving 2
- 425mm Type 3 coarse graded aggregate subbase
- To drain directly into attenuation tank

Permeable Paving 3
- 425mm Type 3 coarse graded aggregate subbase
- To drain directly into attenuation tank

Attenuation Tank 1
CL: Varies, minimum 0.6m cover
Top of Tank: 39.650
Base of Tank: 38.650
Area: 140m²
Volume (with 95% porosity): 133m³

Attenuation Tank 2
CL: Varies, minimum 0.6m cover
Top of Tank: 39.700
Base of Tank: 38.700
Area: 95m²
Volume (with 95% porosity): 90.25m³

Attenuation Tank 3
CL: Varies, minimum 0.6m cover
Top of Tank: 39.700
Base of Tank: 38.700
Area: 95m²
Volume (with 95% porosity): 90.25m³

Proposed foul sewer to pass below invert of existing watercourse and be constructed as part of the culvert works

Existing watercourse to be culverted below proposed footway/cycleway, subject to detailed design and Ordinary Watercourse Consent from the LLFA

Proposed connection point into existing watercourse

IL: 37.300

Bagwork headwall to follow profiled of existing ditch

Flow rate: 6.6l/s

Proposed connection point into existing foul manhole MH1 FW subject to S106 approval from Southern Water

Proposed connection point into existing foul manhole MH17 FW subject to S106 approval from Southern Water

Proposed connection point into existing watercourse

Permeable Paving 4 (subbase only)
- 700mm deep Permavoid geocellular subbase (or similar approved) with 95% void ratio
- Surface to be impermeable with road gullies to connect directly into geocellular subbase

Key:

- Proposed Adoptable Surface Water Drainage
- Proposed Adoptable Surface Water Chamber
- Proposed Adoptable Surface Water Flow Control
- Proposed Adoptable Foul Water Drainage
- Proposed Adoptable Foul Water Chamber
- Proposed Private Surface Water Drainage
- Proposed Filter Strip
- Proposed Permeable Paving
- Proposed Permeable Subbase
- Proposed Attenuation Tank
- 6m Adopted Sewer Easement
- 3m Watercourse Easement
- Culverted Watercourse
- Allowable Flooding Zone
- Proposed Bagwork Headwall

Revision History

Rev	Comment	By	Chkd	Appr	Date
P02	ISSUED FOR INFORMATION	BB	HJ	HJ	07.07.25
P01	ISSUED FOR INFORMATION	BB	HJ	HJ	01.05.25
DRAFT	DRAFT FOR COMMENT	BB	HJ	HJ	17.04.25

Current Revision

Rev	Comment	By	Chkd	Appr	Date
P02	ISSUED FOR INFORMATION	BB	HJ	HJ	07.07.25

PRELIMINARY

VISTRY

MARKIDES ASSOCIATES
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Project
WICKHURST GREEN
BROADBRIDGE HEATH

Drawing Title
PROPOSED DRAINAGE STRATEGY
SHEET 1
WESTERN PARCEL

Markides Associates reference: 24184 1:250@A1

24184-MA-XX-XX-DR-C-0500 - P02

Scale 1:250 @ A1 - 1:500 @ A3
5m 0 5m 10m 15m 20m 25m

N:\24184 - Wickhurst Green, West Sussex\06 - CAD\BM\00 01 CAD\E Detailed Design\24184-MA-XX-XX-DR-C-0500 - Proposed Drainage Strategy.dwg

DO NOT SCALE OFF THIS DRAWING

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4. This drawing is based upon drawing number 24.1945.1000T Wickhurst Green - Proposed Site Layout, supplied by FINC, Markides Associates shall not be liable for any inaccuracies or deficiencies.
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Key:

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- Proposed Private Surface Water Drainage
- Proposed Filter Strip
- Proposed Permeable Paving
- Proposed Permeable Subbase
- Proposed Attenuation Tank
- 6m Adopted Sewer Easement
- 3m Watercourse Easement
- Culverted Watercourse
- Allowable Flooding Zone
- Proposed Bagwork Headwall

Infiltration Trench 1
Depth: 800mm

Infiltration Trench 2
Depth: 1100mm

Infiltration Trench 7
Depth: 600mm

Trench to be hand dug in RPAs with arboriculturalist consultant supervision as required

Proposed foul sewer to pass below invert of existing watercourse and be constructed as part of the culvert works

Existing watercourse to be culverted below proposed footway/cycleway, subject to detailed design and Ordinary Watercourse Consent from the LLFA

Infiltration Trench 6
Depth: 1000mm

Attenuation Tank 4
CL: varies
Top of Tank: 39.100
Base of Tank: 38.600
Area: 55m²
Volume (with 95% porosity): 26.125m³

Proposed connection point into existing watercourse

IL: 37.300

Bagwork headwall to follow profiled of existing ditch

Flow rate: 6.6l/s

Proposed connection point into existing foul manhole MH17 FW subject to S106 approval from Southern Water

Permeable Paving 4 (subbase only)
- 700mm deep Permavoid geocellular subbase (or similar approved) with 95% void ratio
- Surface to be impermeable with road gullies to connect directly into geocellular subbase

Allowable flooding zone based on hydraulic calculations for 1 in 100 year + 45% climate change storm event.

25m³ flooding ÷ 270m² floodable area = 92mm flooding to be retained within carriageway by minimum 125mm kerb upstands

Proposed connection point into existing watercourse

IL: 36.260

Revision History

P02	ISSUED FOR INFORMATION	BB	HJ	HJ	07.07.25
P01	ISSUED FOR INFORMATION	BB	HJ	HJ	01.05.25
DRAFT	DRAFT FOR COMMENT	BB	HJ	HJ	17.04.25
Rev	Comment	By	Chkd	Appr	Date
Current Revision					
P02	ISSUED FOR INFORMATION	BB	HJ	HJ	07.07.25
Rev	Comment	By	Chkd	Appr	Date

PRELIMINARY

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W: www.markidesassociates.co.uk

Project
WICKHURST GREEN
BROADBRIDGE HEATH

Drawing Title
PROPOSED DRAINAGE STRATEGY
SHEET 2
EASTERN PARCEL

Markides Associates reference: 24184 1:250@A1

24184-MA-XX-XX-DR-C-0501 - P02

Scale 1:250 @ A1 - 1:500 @ A3
5m 0 5m 10m 15m 20m 25m

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: West	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

Permeable Paving 1

Type : Porous Paving

Dimensions

Exceedance Level (m)	40.420
Depth (m)	0.575
Base Level (m)	39.845
Paving Layer Depth (mm)	150
Membrane Percolation (m/hr)	3.0
Porosity (%)	30
Length (m)	31.935
Long. Slope (1:X)	200.00
Width (m)	14.125
Total Volume (m³)	57.514

Advanced

Conductivity (m/hr)	50.0

Permeable Paving 2

Type : Porous Paving

Dimensions

Exceedance Level (m)	40.457
Depth (m)	0.575
Base Level (m)	39.882
Paving Layer Depth (mm)	150
Membrane Percolation (m/hr)	3.0
Porosity (%)	30
Length (m)	22.823
Long. Slope (1:X)	200.00
Width (m)	10.330
Total Volume (m³)	30.059

Advanced

Conductivity (m/hr)	50.0

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
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Permeable Paving 3

Type : Porous Paving

Dimensions

Exceedance Level (m)	40.252
Depth (m)	0.575
Base Level (m)	39.677
Paving Layer Depth (mm)	150
Membrane Percolation (m/hr)	3.0
Porosity (%)	30
Length (m)	19.305
Long. Slope (1:X)	200.00
Width (m)	9.135
Total Volume (m³)	22.484

Advanced

Conductivity (m/hr)	50.0

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: West	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

Infiltration Trench (3)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	40.031
Depth (m)	0.540
Base Level (m)	39.491
Freeboard (mm)	15
Porosity (%)	30
Length (m)	29.256
Long. Slope (1:X)	40.00
Width (m)	1.500
Total Volume (m³)	7.129

Under Drain

Height Above Base (m)	0.010
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Manning's n
n	0.015

Advanced

Conductivity (m/hr)	50.0

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: West	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

Infiltration Trench (4)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	39.883
Depth (m)	1.200
Base Level (m)	38.683
Freeboard (mm)	15
Porosity (%)	30
Length (m)	10.707
Long. Slope (1:X)	200.00
Width (m)	1.500
Total Volume (m³)	5.842

Under Drain

Height Above Base (m)	0.010
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Manning's n
n	0.015

Advanced

Conductivity (m/hr)	50.0

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: West	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

Infiltration Trench (2)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	40.000
Depth (m)	1.100
Base Level (m)	38.900
Freeboard (mm)	0
Porosity (%)	30
Length (m)	45.290
Long. Slope (1:X)	100.00
Width (m)	1.409
Total Volume (m³)	21.619

Under Drain

Height Above Base (m)	0.010
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Manning's n
n	0.015

Advanced

Conductivity (m/hr)	0.001

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: West	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

Infiltration Trench (1)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	40.400
Depth (m)	0.800
Base Level (m)	39.600
Freeboard (mm)	0
Porosity (%)	30
Length (m)	38.042
Long. Slope (1:X)	500.00
Width (m)	1.331
Total Volume (m³)	12.623

Under Drain

Height Above Base (m)	0.010
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Manning's n
n	0.015

Advanced

Conductivity (m/hr)	0.001

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: West	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

Infiltration Trench (5)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	39.747
Depth (m)	1.000
Base Level (m)	38.747
Freeboard (mm)	0
Porosity (%)	30
Length (m)	9.675
Long. Slope (1:X)	200.00
Width (m)	1.462
Total Volume (m³)	4.363

Under Drain

Height Above Base (m)	0.010
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Manning's n
n	0.015

Advanced

Conductivity (m/hr)	50.0

Attenuation Tank 2

Type : Cellular Storage

Dimensions

Exceedance Level (m)	40.535
Depth (m)	1.000
Base Level (m)	38.700
Number of Crates Long	1
Number of Crates Wide	1
Number of Crates High	1
Porosity (%)	96
Crate Length (m)	9.5
Crate Width (m)	10
Crate Height (m)	1
Total Volume (m³)	92.035

Attenuation Tank 3

Type : Cellular Storage

Dimensions

Exceedance Level (m)	40.342
Depth (m)	1.000
Base Level (m)	38.700
Number of Crates Long	1
Number of Crates Wide	1
Number of Crates High	1
Porosity (%)	95
Crate Length (m)	9.5
Crate Width (m)	10
Crate Height (m)	1
Total Volume (m³)	90.892

Attenuation Tank 1

Type : Cellular Storage

Dimensions

Exceedance Level (m)	40.516
Depth (m)	1.000
Base Level (m)	38.650
Number of Crates Long	1
Number of Crates Wide	1
Number of Crates High	1
Porosity (%)	95
Crate Length (m)	14
Crate Width (m)	10
Crate Height (m)	1
Total Volume (m³)	133.866

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Network Design Criteria Storm Phase: West	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

Flow Options

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

Pipe Options

Lock Slope Options	None
Design Options	Minimise Excavation
Design Level	Level Soffits
Min. Cover Depth (m)	1.200
Min. Slope (1:X)	500.00
Max. Slope (1:X)	40.00
Min. Velocity (m/s)	1.0
Max. Velocity (m/s)	3.0
Use Flow Restriction	☐
Reduce Channel Depths	☐

Manhole Options

Apply Offset	☐

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: East	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

Permeable Paving 4

Type : Porous Paving

Dimensions

Exceedance Level (m)	38.200
Depth (m)	0.851
Base Level (m)	37.349
Paving Layer Depth (mm)	150
Membrane Percolation (m/hr)	3.0
Porosity (%)	95
Length (m)	96.963
Long. Slope (1:X)	200.00
Width (m)	7.985
Total Volume (m³)	515.817

Under Drain

Height Above Base (m)	0.010
Diameter (mm)	225
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Manning's n
n	0.015

Advanced

Conductivity (m/hr)	50.0

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: East	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

Infiltration Trench 6

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	39.733
Depth (m)	1.000
Base Level (m)	38.733
Freeboard (mm)	0
Porosity (%)	30
Length (m)	23.655
Long. Slope (1:X)	500.00
Width (m)	1.240
Total Volume (m³)	9.092

Under Drain

Height Above Base (m)	0.010
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Manning's n
n	0.015

Advanced

Conductivity (m/hr)	50.0

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: East	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

Infiltration Trench (7)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	38.100
Depth (m)	0.600
Base Level (m)	37.500
Freeboard (mm)	0
Porosity (%)	30
Length (m)	29.355
Long. Slope (1:X)	40.00
Width (m)	1.197
Total Volume (m³)	6.580

Under Drain

Height Above Base (m)	0.010
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Manning's n
n	0.015

Advanced

Conductivity (m/hr)	50.0

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: East	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

Attenuation Tank 4

Type : Cellular Storage

Dimensions

Exceedance Level (m)	39.880
Depth (m)	0.500
Base Level (m)	38.600
Number of Crates Long	1
Number of Crates Wide	1
Number of Crates High	1
Porosity (%)	95
Crate Length (m)	11
Crate Width (m)	5
Crate Height (m)	0.5
Total Volume (m^3)	26.905

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Network Design Criteria Storm Phase: East	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

Flow Options

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

Pipe Options

Lock Slope Options	None
Design Options	Minimise Excavation
Design Level	Level Soffits
Min. Cover Depth (m)	1.200
Min. Slope (1:X)	500.00
Max. Slope (1:X)	40.00
Min. Velocity (m/s)	1.0
Max. Velocity (m/s)	3.0
Use Flow Restriction	☐
Reduce Channel Depths	☐

Manhole Options

Apply Offset	☐

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Title: Rainfall Analysis Criteria	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

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 Depth (mm)	1.0
Run Time (mins)	1440

Rainfall

FEH

Type: FEH

Site Location	GB 514884 130983 TQ 14884 30983
Rainfall Version	2022
Summer	☑
Winter	☑

Return Period

Return Period (years)	Increase Rainfall (%)
2.0	0.000
30.0	40.000
100.0	45.000

Storm Durations

Duration (mins)	Run Time (mins)
60	120
120	240
180	360
240	480
360	720
480	960
600	1200
720	1440
960	1920
1440	2880
2160	4320
2880	5760

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: West	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

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

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
S30 (FC)	FEH: 2 years: +0 %: 2160 mins: Winter	39.926	38.015	38.257	0.242	3.8	0.274	0.000	3.8	211.028	Surcharged
S29	FEH: 2 years: +0 %: 60 mins: Winter	39.898	38.244	38.793	0.549	7.7	0.621	0.000	4.1	17.626	Surcharged
S26	FEH: 2 years: +0 %: 60 mins: Summer	40.370	38.655	38.793	0.138	2.8	0.156	0.000	2.7	3.408	OK
S25	FEH: 2 years: +0 %: 60 mins: Summer	39.990	38.015	38.792	0.778	7.5	0.880	0.000	6.9	10.322	Surcharged
S24 (FC)	FEH: 2 years: +0 %: 240 mins: Summer	40.344	38.263	38.894	0.630	2.3	0.713	0.000	1.9	30.729	Surcharged
S23	FEH: 2 years: +0 %: 60 mins: Winter	40.097	38.368	38.811	0.443	7.1	0.501	0.000	2.0	11.417	Surcharged
S31	FEH: 2 years: +0 %: 2160 mins: Winter	38.544	36.935	36.971	0.036	3.8	0.041	0.000	3.8	211.019	OK
S22	FEH: 2 years: +0 %: 60 mins: Winter	40.321	38.671	38.811	0.140	0.8	0.159	0.000	1.1	2.303	OK
S28	FEH: 2 years: +0 %: 60 mins: Winter	40.191	38.379	38.793	0.414	9.8	0.469	0.000	5.6	19.456	Surcharged
S27	FEH: 2 years: +0 %: 60 mins: Summer	40.433	38.591	38.793	0.202	6.6	0.229	0.000	5.8	12.554	OK
Outfall	FEH: 2 years: +0 %: 2160 mins: Winter	36.860	36.360	36.395	0.035	3.8	0.000	0.000	3.8	211.019	OK

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: West	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

FEH: 30 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
S30 (FC)	FEH: 30 years: +40 %: 360 mins: Winter	39.926	38.015	39.335	1.320	7.2	1.493	0.000	4.3	171.660	Surcharged
S29	FEH: 30 years: +40 %: 120 mins: Winter	39.898	38.244	39.278	1.034	13.1	1.170	0.000	4.2	53.580	Surcharged
S26	FEH: 30 years: +40 %: 60 mins: Summer	40.370	38.655	39.196	0.541	9.1	0.611	0.000	8.6	10.746	Surcharged
S25	FEH: 30 years: +40 %: 60 mins: Summer	39.990	38.015	39.194	1.179	19.1	1.334	0.000	17.3	32.175	Surcharged
S24 (FC)	FEH: 30 years: +40 %: 960 mins: Summer	40.344	38.263	39.384	1.121	1.9	1.268	0.000	1.9	169.274	Surcharged
S23	FEH: 30 years: +40 %: 2160 mins: Summer	40.097	38.368	39.290	0.922	2.4	1.042	0.000	1.8	233.635	Surcharged
S31	FEH: 30 years: +40 %: 360 mins: Winter	38.544	36.935	36.973	0.038	4.3	0.043	0.000	4.3	162.662	OK
S22	FEH: 30 years: +40 %: 60 mins: Summer	40.321	38.671	39.243	0.572	3.8	0.647	0.000	3.7	8.782	Surcharged
S28	FEH: 30 years: +40 %: 60 mins: Winter	40.191	38.379	39.196	0.817	33.1	0.924	0.000	5.0	56.634	Surcharged
S27	FEH: 30 years: +40 %: 60 mins: Winter	40.433	38.591	39.196	0.605	24.8	0.685	0.000	3.4	39.042	Surcharged
Outfall	FEH: 30 years: +40 %: 360 mins: Winter	36.860	36.360	36.397	0.037	4.3	0.000	0.000	4.3	162.662	OK

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: West	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

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

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
S30 (FC)	FEH: 100 years: +45 %: 360 mins: Winter	39.926	38.015	39.586	1.572	9.2	1.777	0.000	4.7	191.606	Surcharged
S29	FEH: 100 years: +45 %: 60 mins: Winter	39.898	38.244	39.395	1.151	28.8	1.302	0.000	5.8	54.371	Surcharged
S26	FEH: 100 years: +45 %: 60 mins: Summer	40.370	38.655	39.396	0.741	12.2	0.838	0.000	11.4	14.320	Surcharged
S25	FEH: 100 years: +45 %: 60 mins: Summer	39.990	38.015	39.394	1.380	26.3	1.561	0.000	22.8	42.472	Surcharged
S24 (FC)	FEH: 100 years: +45 %: 360 mins: Summer	40.344	38.263	40.045	1.782	2.3	2.015	0.000	1.9	50.767	Flood Risk
S23	FEH: 100 years: +45 %: 480 mins: Winter	40.097	38.368	40.088	1.720	6.2	1.945	0.000	2.9	107.596	Flood Risk
S31	FEH: 100 years: +45 %: 360 mins: Winter	38.544	36.935	36.975	0.040	4.7	0.045	0.000	4.7	175.176	OK
S22	FEH: 100 years: +45 %: 60 mins: Summer	40.321	38.671	39.448	0.777	4.7	0.879	0.000	4.6	11.967	Surcharged
S28	FEH: 100 years: +45 %: 60 mins: Winter	40.191	38.379	39.396	1.017	44.2	1.150	0.000	6.7	75.639	Surcharged
S27	FEH: 100 years: +45 %: 60 mins: Winter	40.433	38.591	39.396	0.805	32.2	0.911	0.000	3.6	52.307	Surcharged
Outfall	FEH: 100 years: +45 %: 360 mins: Winter	36.860	36.360	36.399	0.039	4.7	0.000	0.000	4.7	175.176	OK

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: West	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

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

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Infiltration Trench (3)	FEH: 2 years: +0 %: 60 mins: Summer	40.266	39.625	0.044	0.135	2.6	1.164	0.000	0.000	2.2	3.088	83.675	OK
Infiltration Trench (4)	FEH: 2 years: +0 %: 60 mins: Summer	38.802	38.801	0.066	0.119	0.8	0.443	0.000	0.000	0.6	0.526	92.409	OK
Infiltration Trench (2)	FEH: 2 years: +0 %: 60 mins: Summer	39.384	39.041	0.031	0.141	2.8	1.182	0.000	0.000	2.5	3.291	94.532	OK
Attenuation Tank 2	FEH: 2 years: +0 %: 60 mins: Summer	38.793	38.793	0.093	0.093	9.5	8.507	0.000	0.000	1.4	4.418	90.757	OK
Attenuation Tank 3	FEH: 2 years: +0 %: 60 mins: Summer	38.793	38.793	0.093	0.093	14.5	8.403	0.000	0.000	1.5	4.523	90.755	OK
Attenuation Tank 1	FEH: 2 years: +0 %: 60 mins: Summer	38.811	38.811	0.161	0.161	19.6	21.382	0.000	0.000	2.7	1.678	84.027	OK
Permeable Paving 1	FEH: 2 years: +0 %: 60 mins: Summer	40.045	39.889	0.041	0.044	4.5	5.638	0.000	0.000	0.0	0.000	90.198	OK
Permeable Paving 2	FEH: 2 years: +0 %: 60 mins: Summer	40.036	39.926	0.041	0.044	2.3	2.939	0.000	0.000	0.0	0.000	90.223	OK
Permeable Paving 3	FEH: 2 years: +0 %: 60 mins: Summer	39.814	39.721	0.041	0.044	1.8	2.201	0.000	0.000	0.0	0.000	90.211	OK
Infiltration Trench (1)	FEH: 2 years: +0 %: 60 mins: Summer	39.834	39.676	0.158	0.076	2.7	2.098	0.000	0.000	0.9	2.517	83.382	OK
Infiltration Trench (5)	FEH: 2 years: +0 %: 60 mins: Summer	38.870	38.808	0.074	0.061	0.7	0.284	0.000	0.000	0.5	0.772	93.488	OK

Wickhurst Green:	Date: 07/07/2025		
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Report Details: Type: Stormwater Controls Summary Storm Phase: West	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

FEH: 30 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Flooded Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Infiltration Trench (3)	FEH: 30 years: +40 %: 60 mins: Summer	40.543	39.808	0.321	0.317	8.4	4.403	0.000	0.000	5.2	10.298	38.235	OK
Infiltration Trench (4)	FEH: 30 years: +40 %: 60 mins: Summer	39.226	39.225	0.489	0.543	2.5	2.486	0.000	0.000	0.7	0.640	57.454	OK
Infiltration Trench (2)	FEH: 30 years: +40 %: 60 mins: Summer	39.400	39.299	0.047	0.399	9.0	3.806	0.000	0.000	5.0	8.566	82.396	OK
Attenuation Tank 2	FEH: 30 years: +40 %: 60 mins: Summer	39.197	39.197	0.497	0.497	40.0	45.296	0.000	0.000	1.4	4.619	50.784	OK
Attenuation Tank 3	FEH: 30 years: +40 %: 60 mins: Summer	39.196	39.196	0.496	0.496	39.1	44.752	0.000	0.000	1.4	4.628	50.763	OK
Attenuation Tank 1	FEH: 30 years: +40 %: 60 mins: Summer	39.243	39.243	0.593	0.593	60.3	78.895	0.000	0.000	1.4	1.689	41.064	OK
Permeable Paving 1	FEH: 30 years: +40 %: 60 mins: Summer	40.136	39.933	0.131	0.088	14.5	16.592	0.000	0.000	1.7	1.869	71.152	OK
Permeable Paving 2	FEH: 30 years: +40 %: 60 mins: Summer	40.126	39.988	0.130	0.107	7.6	8.843	0.000	0.000	0.6	0.781	70.582	OK
Permeable Paving 3	FEH: 30 years: +40 %: 60 mins: Summer	39.904	39.763	0.131	0.086	5.7	6.041	0.000	0.000	1.1	1.208	73.130	OK
Infiltration Trench (1)	FEH: 30 years: +40 %: 60 mins: Summer	40.211	39.808	0.535	0.208	8.6	6.352	0.000	0.000	3.8	9.581	49.674	OK
Infiltration Trench (5)	FEH: 30 years: +40 %: 60 mins: Summer	39.195	39.195	0.400	0.447	2.4	1.797	0.000	0.000	0.8	1.108	58.802	OK

Wickhurst Green:	Date: 07/07/2025		
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FEH: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Flooded Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Infiltration Trench (3)	FEH: 100 years: +45 %: 60 mins: Summer	40.535	39.913	0.312	0.422	11.1	5.549	0.000	0.000	6.3	13.791	22.158	OK
Infiltration Trench (4)	FEH: 100 years: +45 %: 60 mins: Summer	39.431	39.430	0.695	0.748	3.4	3.475	0.000	0.000	1.2	0.706	40.525	OK
Infiltration Trench (2)	FEH: 100 years: +45 %: 60 mins: Summer	39.459	39.446	0.106	0.546	12.0	6.274	0.000	0.000	4.8	9.084	70.977	OK
Attenuation Tank 2	FEH: 100 years: +45 %: 60 mins: Summer	39.397	39.397	0.697	0.697	53.8	63.579	0.000	0.000	1.6	4.862	30.919	OK
Attenuation Tank 3	FEH: 100 years: +45 %: 60 mins: Summer	39.396	39.396	0.696	0.696	54.8	62.859	0.000	0.000	1.6	4.826	30.843	OK
Attenuation Tank 1	FEH: 100 years: +45 %: 60 mins: Summer	39.448	39.448	0.798	0.798	82.1	106.166	0.000	0.000	2.3	1.597	20.692	OK
Permeable Paving 1	FEH: 100 years: +45 %: 60 mins: Summer	40.180	39.939	0.175	0.094	19.4	21.369	0.000	0.000	3.6	3.316	62.845	OK
Permeable Paving 2	FEH: 100 years: +45 %: 60 mins: Summer	40.170	39.992	0.174	0.110	10.1	11.148	0.000	0.000	1.4	1.749	62.911	OK
Permeable Paving 3	FEH: 100 years: +45 %: 60 mins: Summer	39.948	39.768	0.174	0.091	7.5	7.570	0.000	0.000	2.4	2.130	66.334	OK
Infiltration Trench (1)	FEH: 100 years: +45 %: 60 mins: Summer	40.325	39.872	0.649	0.272	11.4	7.874	0.000	0.000	4.7	13.009	37.622	OK
Infiltration Trench (5)	FEH: 100 years: +45 %: 60 mins: Summer	39.397	39.395	0.601	0.648	3.3	2.650	0.000	0.000	1.8	1.371	39.267	OK

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
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FEH: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
S14	FEH: 2 years: +0 %: 60 mins: Summer	40.179	38.878	38.979	0.101	22.3	0.145	0.000	22.2	27.818	OK
S15	FEH: 2 years: +0 %: 60 mins: Summer	39.890	38.663	38.766	0.103	23.1	0.117	0.000	23.1	28.857	OK
S16	FEH: 2 years: +0 %: 60 mins: Summer	39.651	38.593	38.697	0.104	29.1	0.149	0.000	29.1	36.382	OK
S17	FEH: 2 years: +0 %: 60 mins: Summer	39.402	38.479	38.531	0.053	29.1	0.076	0.000	29.1	36.383	OK
S10 (FC)	FEH: 2 years: +0 %: 180 mins: Winter	38.016	37.333	37.632	0.299	6.7	0.429	0.000	6.6	88.433	OK
OUTFALL 1	FEH: 2 years: +0 %: 480 mins: Winter	38.093	37.300	37.364	0.064	6.6	0.000	0.000	6.6	156.809	OK
S1	FEH: 2 years: +0 %: 60 mins: Summer	40.101	38.668	38.715	0.047	4.3	0.067	0.000	4.3	5.728	OK
S2	FEH: 2 years: +0 %: 120 mins: Winter	39.890	38.559	38.695	0.136	5.0	0.194	0.000	2.9	19.423	OK
S3	FEH: 2 years: +0 %: 60 mins: Summer	39.340	38.396	38.448	0.052	4.9	0.075	0.000	4.9	12.343	OK
S4	FEH: 2 years: +0 %: 60 mins: Summer	39.425	38.301	38.340	0.039	4.9	0.056	0.000	4.9	12.316	OK
S5	FEH: 2 years: +0 %: 60 mins: Summer	38.916	37.860	38.019	0.159	4.9	0.227	0.000	4.2	12.256	OK
S11	FEH: 2 years: +0 %: 60 mins: Summer	40.766	39.303	39.360	0.057	6.1	0.082	0.000	6.1	7.577	OK
S12	FEH: 2 years: +0 %: 60 mins: Summer	40.759	39.196	39.267	0.071	9.3	0.081	0.000	9.3	11.583	OK
S13	FEH: 2 years: +0 %: 60 mins: Summer	40.430	39.064	39.135	0.071	9.3	0.102	0.000	9.3	11.578	OK

Wickhurst Green:	Date: 07/07/2025		
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FEH: 30 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
S14	FEH: 30 years: +40 %: 60 mins: Summer	40.179	38.878	39.081	0.203	71.7	0.291	0.000	71.7	89.545	OK
S15	FEH: 30 years: +40 %: 60 mins: Summer	39.890	38.663	38.872	0.209	74.4	0.237	0.000	74.4	92.912	OK
S16	FEH: 30 years: +40 %: 60 mins: Summer	39.651	38.593	38.803	0.211	93.7	0.301	0.000	93.7	117.116	OK
S17	FEH: 30 years: +40 %: 60 mins: Summer	39.402	38.479	38.590	0.111	93.7	0.159	0.000	93.8	117.094	OK
S10 (FC)	FEH: 30 years: +40 %: 60 mins: Winter	38.016	37.333	37.854	0.521	7.2	0.745	0.000	6.6	32.587	Surcharged
OUTFALL 1	FEH: 30 years: +40 %: 1440 mins: Winter	38.093	37.300	37.364	0.064	6.6	0.000	0.000	6.6	536.425	OK
S1	FEH: 30 years: +40 %: 60 mins: Summer	40.101	38.668	38.935	0.268	12.8	0.383	0.000	11.5	18.890	Surcharged
S2	FEH: 30 years: +40 %: 120 mins: Summer	39.890	38.559	38.932	0.373	15.8	0.534	0.000	5.0	55.757	Surcharged
S3	FEH: 30 years: +40 %: 60 mins: Summer	39.340	38.396	38.479	0.083	12.2	0.119	0.000	12.3	34.598	OK
S4	FEH: 30 years: +40 %: 60 mins: Summer	39.425	38.301	38.433	0.132	12.3	0.189	0.000	12.5	34.422	OK
S5	FEH: 30 years: +40 %: 60 mins: Summer	38.916	37.860	38.428	0.568	12.5	0.812	0.000	11.5	34.193	Surcharged
S11	FEH: 30 years: +40 %: 60 mins: Summer	40.766	39.303	39.411	0.108	19.5	0.155	0.000	19.5	24.384	OK
S12	FEH: 30 years: +40 %: 60 mins: Summer	40.759	39.196	39.335	0.140	29.8	0.158	0.000	29.8	37.269	OK
S13	FEH: 30 years: +40 %: 60 mins: Summer	40.430	39.064	39.203	0.139	29.8	0.199	0.000	29.8	37.265	OK

Wickhurst Green:	Date: 07/07/2025		
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Report Details: Type: Junctions Summary Storm Phase: East	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

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

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
S14	FEH: 100 years: +45 %: 60 mins: Summer	40.179	38.878	39.150	0.272	95.5	0.390	0.000	95.5	119.315	OK
S15	FEH: 100 years: +45 %: 60 mins: Summer	39.890	38.663	38.941	0.278	99.1	0.315	0.000	99.1	123.806	OK
S16	FEH: 100 years: +45 %: 60 mins: Summer	39.651	38.593	38.865	0.273	124.9	0.390	0.000	129.4	156.070	OK
S17	FEH: 100 years: +45 %: 60 mins: Summer	39.402	38.479	38.617	0.138	129.4	0.198	0.000	124.9	156.020	OK
S10 (FC)	FEH: 100 years: +45 %: 360 mins: Summer	38.016	37.333	38.016	0.683	6.8	0.977	0.000	6.6	221.089	Surcharged
OUTFALL 1	FEH: 100 years: +45 %: 2160 mins: Summer	38.093	37.300	37.364	0.064	6.6	0.000	0.000	6.6	708.289	OK
S1	FEH: 100 years: +45 %: 60 mins: Summer	40.101	38.668	39.077	0.409	16.3	0.585	0.000	15.5	23.090	Surcharged
S2	FEH: 100 years: +45 %: 60 mins: Winter	39.890	38.559	39.186	0.627	26.5	0.898	0.000	5.2	54.471	Surcharged
S3	FEH: 100 years: +45 %: 60 mins: Summer	39.340	38.396	38.550	0.154	15.4	0.220	0.000	14.9	39.516	OK
S4	FEH: 100 years: +45 %: 60 mins: Summer	39.425	38.301	38.546	0.245	14.9	0.350	0.000	14.6	39.352	Surcharged
S5	FEH: 100 years: +45 %: 60 mins: Summer	38.916	37.860	38.538	0.678	14.6	0.970	0.000	12.7	38.649	Surcharged
S11	FEH: 100 years: +45 %: 60 mins: Summer	40.766	39.303	39.433	0.130	26.0	0.186	0.000	26.0	32.483	OK
S12	FEH: 100 years: +45 %: 60 mins: Summer	40.759	39.196	39.371	0.175	39.7	0.198	0.000	39.7	49.676	OK
S13	FEH: 100 years: +45 %: 60 mins: Summer	40.430	39.064	39.243	0.179	39.7	0.256	0.000	39.7	49.703	OK

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: East	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

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

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Permeable Paving 4	FEH: 2 years: +0 %: 60 mins: Summer	38.018	37.523	0.184	0.174	54.0	70.970	0.000	0.000	4.8	10.280	86.241	OK
Infiltration Trench 6	FEH: 2 years: +0 %: 60 mins: Summer	38.838	38.831	0.058	0.098	2.3	0.686	0.000	0.000	2.0	2.760	92.452	OK
Attenuation Tank 4	FEH: 2 years: +0 %: 60 mins: Summer	38.681	38.681	0.081	0.081	5.2	4.250	0.000	0.000	1.4	3.679	84.204	OK
Infiltration Trench (7)	FEH: 2 years: +0 %: 60 mins: Summer	38.275	37.621	0.041	0.121	2.0	0.645	0.000	0.000	1.9	2.406	90.191	OK

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: East	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

FEH: 30 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Flooded Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Permeable Paving 4	FEH: 30 years: +40 %: 60 mins: Summer	38.426	37.834	0.592	0.485	172.0	213.412	0.000	0.000	7.2	22.417	58.626	OK
Infiltration Trench 6	FEH: 30 years: +40 %: 60 mins: Summer	38.967	38.952	0.186	0.219	7.3	1.798	0.000	0.000	6.3	9.027	80.226	OK
Attenuation Tank 4	FEH: 30 years: +40 %: 60 mins: Summer	38.935	38.935	0.335	0.335	18.0	17.516	0.000	0.000	3.5	10.480	34.897	OK
Infiltration Trench (7)	FEH: 30 years: +40 %: 60 mins: Summer	38.301	37.838	0.067	0.338	6.4	1.528	0.000	0.000	5.5	7.619	76.781	OK

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: East	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

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

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Permeable Paving 4	FEH: 100 years: +45 %: 480 mins: Winter	38.229	38.346	0.395	0.997	45.7	439.897	25.327	0.000	6.6	284.231	14.718	Flood
Infiltration Trench 6	FEH: 100 years: +45 %: 60 mins: Summer	39.082	39.080	0.301	0.347	9.8	2.849	0.000	0.000	6.6	11.246	68.668	OK
Attenuation Tank 4	FEH: 100 years: +45 %: 60 mins: Summer	39.076	39.076	0.476	0.476	25.6	24.892	0.000	0.000	3.6	11.010	7.483	OK
Infiltration Trench (7)	FEH: 100 years: +45 %: 60 mins: Summer	38.311	37.952	0.077	0.452	8.6	2.222	0.000	0.000	6.6	10.119	66.225	OK

Infiltration Trench (3)
Critical by Return Period: FEH: 2 years: Increase Rainfall (%): +0: 60 mins: Summer

Type : Infiltration Trench

Tables

Half Drain Down Time (mins)	-

Time (mins)	Total Inflow (L/s)	US Depth (m)	DS Depth (m)	Resident Volume(m³)	Flooded Volume (m³)	Total Outflow (L/s)
0	0.0	0.000	0.000	0.000	0.000	0.0
5	0.3	0.003	0.003	0.043	0.000	0.0
10	0.3	0.011	0.011	0.141	0.000	0.0
15	0.4	0.018	0.020	0.251	0.000	0.1
20	0.6	0.022	0.033	0.369	0.000	0.2
25	1.1	0.028	0.053	0.541	0.000	0.4
30	2.6	0.044	0.085	0.893	0.000	1.0
35	2.6	0.043	0.135	1.164	0.000	2.2
40	1.2	0.036	0.127	1.083	0.000	2.0
45	0.6	0.027	0.102	0.838	0.000	1.4
50	0.4	0.023	0.080	0.649	0.000	0.9
55	0.4	0.019	0.074	0.497	0.000	0.8
60	0.3	0.017	0.054	0.413	0.000	0.5
65	0.0	0.015	0.043	0.350	0.000	0.3
70	0.0	0.013	0.033	0.284	0.000	0.2
75	0.0	0.012	0.027	0.245	0.000	0.1
80	0.0	0.011	0.023	0.220	0.000	0.1
85	0.0	0.011	0.020	0.203	0.000	0.0
90	0.0	0.011	0.019	0.191	0.000	0.0
95	0.0	0.010	0.017	0.181	0.000	0.0
100	0.0	0.010	0.016	0.174	0.000	0.0
105	0.0	0.010	0.016	0.169	0.000	0.0
110	0.0	0.010	0.015	0.164	0.000	0.0
115	0.0	0.010	0.015	0.160	0.000	0.0
120	0.0	0.009	0.014	0.157	0.000	0.0

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Stormwater Control Results Storm Phase: West	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

Infiltration Trench (4)
Critical by Return Period: FEH: 2 years: Increase Rainfall (%): +0: 60 mins: Summer

Type : Infiltration Trench

Tables

Half Drain Down Time (mins)	-

Time (mins)	Total Inflow (L/s)	US Depth (m)	DS Depth (m)	Resident Volume(m³)	Flooded Volume (m³)	Total Outflow (L/s)
0	0.0	0.000	0.000	0.000	0.000	0.0
5	0.1	0.003	0.002	0.012	0.000	0.0
10	0.1	0.009	0.005	0.036	0.000	0.0
15	0.1	0.015	0.008	0.062	0.000	0.0
20	0.2	0.018	0.014	0.086	0.000	0.1
25	0.3	0.021	0.023	0.112	0.000	0.3
30	0.8	0.026	0.041	0.160	0.000	0.6
35	0.8	0.027	0.062	0.204	0.000	0.6
40	0.4	0.027	0.080	0.256	0.000	0.1
45	0.2	0.042	0.094	0.327	0.000	0.0
50	0.1	0.050	0.104	0.370	0.000	0.0
55	0.1	0.058	0.111	0.404	0.000	0.0
60	0.1	0.063	0.116	0.432	0.000	0.0
65	0.0	0.066	0.119	0.443	0.000	0.0
70	0.0	0.065	0.118	0.441	0.000	0.0
75	0.0	0.065	0.118	0.438	0.000	0.0
80	0.0	0.064	0.117	0.435	0.000	0.0
85	0.0	0.064	0.117	0.433	0.000	0.0
90	0.0	0.063	0.116	0.431	0.000	0.0
95	0.0	0.063	0.116	0.429	0.000	0.0
100	0.0	0.062	0.115	0.427	0.000	0.0
105	0.0	0.061	0.115	0.424	0.000	0.0
110	0.0	0.061	0.114	0.421	0.000	0.0
115	0.0	0.061	0.114	0.419	0.000	0.0
120	0.0	0.060	0.113	0.417	0.000	0.0

Infiltration Trench (2)
Critical by Return Period: FEH: 2 years: Increase Rainfall (%): +0: 60 mins: Summer

Type : Infiltration Trench

Tables

Half Drain Down Time (mins)	-

Time (mins)	Total Inflow (L/s)	US Depth (m)	DS Depth (m)	Resident Volume(m³)	Flooded Volume (m³)	Total Outflow (L/s)
0	0.0	0.000	0.000	0.000	0.000	0.0
5	0.3	0.002	0.002	0.045	0.000	0.0
10	0.4	0.008	0.007	0.145	0.000	0.0
15	0.5	0.014	0.010	0.258	0.000	0.1
20	0.6	0.019	0.019	0.398	0.000	0.1
25	1.2	0.023	0.045	0.600	0.000	0.4
30	2.8	0.029	0.096	0.954	0.000	1.4
35	2.8	0.031	0.141	1.182	0.000	2.5
40	1.2	0.026	0.129	1.044	0.000	2.2
45	0.6	0.022	0.094	0.804	0.000	1.3
50	0.5	0.020	0.069	0.651	0.000	0.8
55	0.4	0.019	0.055	0.566	0.000	0.6
60	0.3	0.018	0.046	0.516	0.000	0.5
65	0.0	0.016	0.038	0.445	0.000	0.3
70	0.0	0.014	0.027	0.363	0.000	0.2
75	0.0	0.013	0.020	0.312	0.000	0.1
80	0.0	0.012	0.015	0.278	0.000	0.1
85	0.0	0.012	0.012	0.256	0.000	0.1
90	0.0	0.012	0.010	0.241	0.000	0.0
95	0.0	0.012	0.008	0.230	0.000	0.0
100	0.0	0.011	0.007	0.221	0.000	0.0
105	0.0	0.011	0.006	0.214	0.000	0.0
110	0.0	0.011	0.006	0.209	0.000	0.0
115	0.0	0.011	0.005	0.204	0.000	0.0
120	0.0	0.011	0.005	0.200	0.000	0.0

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Stormwater Control Results Storm Phase: West	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

Attenuation Tank 2
Critical by Return Period: FEH: 2 years: Increase Rainfall (%): +0: 60 mins: Summer

Type : Cellular Storage

Tables

Half Drain Down Time (mins)	-

Time (mins)	Total Inflow (L/s)	Depth(m)	Resident Volume(m³)	Flooded Volume (m³)	Total Outflow (L/s)
0	0.0	0.000	0.000	0.000	0.0
5	0.4	0.001	0.052	0.000	0.0
10	0.4	0.002	0.173	0.000	0.0
15	0.5	0.003	0.315	0.000	0.0
20	0.7	0.005	0.493	0.000	0.0
25	1.4	0.009	0.785	0.000	0.1
30	3.2	0.015	1.409	0.000	0.4
35	9.5	0.038	3.413	0.000	-6.3
40	7.4	0.065	5.950	0.000	-5.9
45	3.5	0.084	7.694	0.000	-2.8
50	0.5	0.089	8.162	0.000	0.2
55	1.1	0.092	8.387	0.000	-0.7
60	0.4	0.093	8.507	0.000	0.5
65	0.0	0.092	8.368	0.000	1.0
70	0.0	0.087	7.968	0.000	1.4
75	0.0	0.083	7.571	0.000	1.3
80	0.0	0.079	7.180	0.000	1.3
85	0.0	0.074	6.797	0.000	1.3
90	0.0	0.070	6.424	0.000	1.2
95	0.0	0.066	6.060	0.000	1.2
100	0.0	0.063	5.705	0.000	1.2
105	0.0	0.059	5.358	0.000	1.1
110	0.0	0.055	5.016	0.000	1.1
115	0.0	0.051	4.683	0.000	1.1
120	0.0	0.048	4.356	0.000	1.1

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Stormwater Control Results Storm Phase: West	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

Attenuation Tank 3
Critical by Return Period: FEH: 2 years: Increase Rainfall (%): +0: 60 mins: Summer

Type : Cellular Storage

Tables

Half Drain Down Time (mins)	-

Time (mins)	Total Inflow (L/s)	Depth(m)	Resident Volume(m³)	Flooded Volume (m³)	Total Outflow (L/s)
0	0.0	0.000	0.000	0.000	0.0
5	0.4	0.001	0.052	0.000	0.0
10	0.4	0.002	0.173	0.000	0.0
15	0.5	0.003	0.312	0.000	0.0
20	0.7	0.005	0.482	0.000	0.1
25	1.4	0.008	0.761	0.000	0.2
30	3.2	0.015	1.343	0.000	0.6
35	14.5	0.049	4.383	0.000	-11.3
40	2.9	0.080	7.249	0.000	-1.4
45	0.7	0.085	7.654	0.000	0.1
50	1.6	0.089	8.058	0.000	-1.1
55	0.4	0.092	8.297	0.000	0.3
60	0.6	0.093	8.403	0.000	-0.2
65	0.0	0.091	8.235	0.000	1.5
70	0.0	0.087	7.846	0.000	1.2
75	0.0	0.083	7.449	0.000	1.3
80	0.0	0.078	7.059	0.000	1.3
85	0.0	0.074	6.679	0.000	1.3
90	0.0	0.070	6.306	0.000	1.2
95	0.0	0.066	5.943	0.000	1.2
100	0.0	0.062	5.588	0.000	1.2
105	0.0	0.058	5.238	0.000	1.2
110	0.0	0.054	4.896	0.000	1.1
115	0.0	0.050	4.560	0.000	1.1
120	0.0	0.047	4.230	0.000	1.1

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Stormwater Control Results Storm Phase: West	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

Attenuation Tank 1
Critical by Return Period: FEH: 2 years: Increase Rainfall (%): +0: 60 mins: Summer

Type : Cellular Storage

Tables

Half Drain Down Time (mins)	-

Time (mins)	Total Inflow (L/s)	Depth(m)	Resident Volume(m³)	Flooded Volume (m³)	Total Outflow (L/s)
0	0.0	0.000	0.000	0.000	0.0
5	1.3	0.001	0.183	0.000	0.0
10	1.5	0.005	0.606	0.000	0.0
15	1.8	0.008	1.085	0.000	0.1
20	2.5	0.013	1.680	0.000	0.3
25	5.0	0.020	2.644	0.000	0.8
30	11.3	0.035	4.595	0.000	2.7
35	19.6	0.075	9.973	0.000	-8.3
40	10.3	0.110	14.570	0.000	-5.2
45	5.7	0.128	16.960	0.000	-3.1
50	4.0	0.138	18.409	0.000	-2.2
55	3.4	0.147	19.528	0.000	-1.9
60	2.9	0.154	20.484	0.000	-1.6
65	0.8	0.158	21.056	0.000	-0.8
70	0.5	0.160	21.239	0.000	-0.5
75	0.2	0.160	21.344	0.000	-0.2
80	0.1	0.161	21.382	0.000	-0.1
85	0.0	0.161	21.377	0.000	0.1
90	0.0	0.160	21.330	0.000	0.2
95	0.0	0.160	21.253	0.000	0.3
100	0.0	0.159	21.149	0.000	0.4
105	0.0	0.158	21.019	0.000	0.5
110	0.0	0.157	20.867	0.000	0.5
115	0.0	0.156	20.696	0.000	0.6
120	0.0	0.154	20.507	0.000	0.7

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Stormwater Control Results Storm Phase: West	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

Permeable Paving 1
Critical by Return Period: FEH: 2 years: Increase Rainfall (%): +0: 60 mins: Summer

Type : Porous Paving

Tables

Half Drain Down Time (mins)	-

Time (mins)	Total Inflow (L/s)	US Depth (m)	DS Depth (m)	Resident Volume(m³)	Flooded Volume (m³)	Total Outflow (L/s)
0	0.0	0.000	0.000	0.000	0.000	0.0
5	0.5	0.001	0.001	0.073	0.000	0.0
10	0.6	0.002	0.002	0.244	0.000	0.0
15	0.7	0.003	0.003	0.446	0.000	0.0
20	1.0	0.005	0.005	0.709	0.000	0.0
25	2.0	0.009	0.009	1.156	0.000	0.0
30	4.5	0.016	0.016	2.126	0.000	0.0
35	4.5	0.026	0.026	3.479	0.000	0.0
40	2.0	0.033	0.033	4.463	0.000	0.0
45	1.0	0.036	0.037	4.918	0.000	0.0
50	0.7	0.038	0.039	5.182	0.000	0.0
55	0.6	0.039	0.040	5.384	0.000	0.0
60	0.5	0.040	0.042	5.555	0.000	0.0
65	0.0	0.041	0.043	5.638	0.000	0.0
70	0.0	0.041	0.043	5.638	0.000	0.0
75	0.0	0.041	0.043	5.638	0.000	0.0
80	0.0	0.040	0.043	5.638	0.000	0.0
85	0.0	0.040	0.043	5.638	0.000	0.0
90	0.0	0.040	0.043	5.638	0.000	0.0
95	0.0	0.040	0.043	5.638	0.000	0.0
100	0.0	0.040	0.043	5.638	0.000	0.0
105	0.0	0.040	0.044	5.638	0.000	0.0
110	0.0	0.040	0.044	5.638	0.000	0.0
115	0.0	0.040	0.044	5.638	0.000	0.0
120	0.0	0.039	0.044	5.638	0.000	0.0

Permeable Paving 2
Critical by Return Period: FEH: 2 years: Increase Rainfall (%): +0: 60 mins: Summer

Type : Porous Paving

Tables

Half Drain Down Time (mins)	-

Time (mins)	Total Inflow (L/s)	US Depth (m)	DS Depth (m)	Resident Volume(m³)	Flooded Volume (m³)	Total Outflow (L/s)
0	0.0	0.000	0.000	0.000	0.000	0.0
5	0.3	0.001	0.001	0.039	0.000	0.0
10	0.3	0.002	0.002	0.128	0.000	0.0
15	0.4	0.003	0.003	0.233	0.000	0.0
20	0.5	0.005	0.005	0.370	0.000	0.0
25	1.0	0.009	0.009	0.603	0.000	0.0
30	2.3	0.016	0.016	1.108	0.000	0.0
35	2.3	0.026	0.026	1.813	0.000	0.0
40	1.0	0.033	0.033	2.326	0.000	0.0
45	0.5	0.036	0.037	2.563	0.000	0.0
50	0.4	0.038	0.039	2.700	0.000	0.0
55	0.3	0.039	0.040	2.805	0.000	0.0
60	0.3	0.040	0.042	2.895	0.000	0.0
65	0.0	0.041	0.043	2.939	0.000	0.0
70	0.0	0.040	0.043	2.939	0.000	0.0
75	0.0	0.040	0.043	2.939	0.000	0.0
80	0.0	0.040	0.043	2.939	0.000	0.0
85	0.0	0.040	0.043	2.939	0.000	0.0
90	0.0	0.040	0.043	2.939	0.000	0.0
95	0.0	0.040	0.043	2.939	0.000	0.0
100	0.0	0.040	0.044	2.939	0.000	0.0
105	0.0	0.039	0.044	2.939	0.000	0.0
110	0.0	0.039	0.044	2.939	0.000	0.0
115	0.0	0.039	0.044	2.939	0.000	0.0
120	0.0	0.039	0.044	2.939	0.000	0.0

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Stormwater Control Results Storm Phase: West	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

Permeable Paving 3
Critical by Return Period: FEH: 2 years: Increase Rainfall (%): +0: 60 mins: Summer

Type : Porous Paving

Tables

Half Drain Down Time (mins)	-

Time (mins)	Total Inflow (L/s)	US Depth (m)	DS Depth (m)	Resident Volume(m³)	Flooded Volume (m³)	Total Outflow (L/s)
0	0.0	0.000	0.000	0.000	0.000	0.0
5	0.2	0.001	0.001	0.029	0.000	0.0
10	0.2	0.002	0.002	0.096	0.000	0.0
15	0.3	0.003	0.003	0.176	0.000	0.0
20	0.4	0.005	0.005	0.278	0.000	0.0
25	0.8	0.009	0.009	0.452	0.000	0.0
30	1.8	0.016	0.016	0.830	0.000	0.0
35	1.8	0.026	0.026	1.358	0.000	0.0
40	0.8	0.033	0.033	1.742	0.000	0.0
45	0.4	0.036	0.037	1.919	0.000	0.0
50	0.3	0.038	0.039	2.021	0.000	0.0
55	0.2	0.039	0.040	2.101	0.000	0.0
60	0.2	0.040	0.042	2.169	0.000	0.0
65	0.0	0.041	0.043	2.201	0.000	0.0
70	0.0	0.041	0.043	2.201	0.000	0.0
75	0.0	0.040	0.043	2.201	0.000	0.0
80	0.0	0.040	0.043	2.201	0.000	0.0
85	0.0	0.040	0.043	2.201	0.000	0.0
90	0.0	0.040	0.043	2.201	0.000	0.0
95	0.0	0.040	0.043	2.201	0.000	0.0
100	0.0	0.040	0.043	2.201	0.000	0.0
105	0.0	0.040	0.044	2.201	0.000	0.0
110	0.0	0.040	0.044	2.201	0.000	0.0
115	0.0	0.039	0.044	2.201	0.000	0.0
120	0.0	0.039	0.044	2.201	0.000	0.0

Infiltration Trench (1)
Critical by Return Period: FEH: 2 years: Increase Rainfall (%): +0: 60 mins: Summer

Type : Infiltration Trench

Tables

Half Drain Down Time (mins)	-

Time (mins)	Total Inflow (L/s)	US Depth (m)	DS Depth (m)	Resident Volume(m³)	Flooded Volume (m³)	Total Outflow (L/s)
0	0.0	0.000	0.000	0.000	0.000	0.0
5	0.3	0.003	0.003	0.044	0.000	0.0
10	0.4	0.010	0.010	0.146	0.000	0.0
15	0.4	0.017	0.017	0.263	0.000	0.0
20	0.6	0.027	0.023	0.404	0.000	0.1
25	1.2	0.042	0.032	0.635	0.000	0.2
30	2.7	0.077	0.051	1.129	0.000	0.4
35	2.7	0.120	0.074	1.743	0.000	0.8
40	1.2	0.149	0.076	2.063	0.000	0.9
45	0.6	0.157	0.068	2.098	0.000	0.7
50	0.4	0.158	0.061	2.062	0.000	0.6
55	0.4	0.149	0.069	1.979	0.000	0.7
60	0.3	0.140	0.066	1.874	0.000	0.7
65	0.0	0.129	0.060	1.738	0.000	0.6
70	0.0	0.116	0.054	1.584	0.000	0.5
75	0.0	0.106	0.048	1.457	0.000	0.4
80	0.0	0.097	0.045	1.353	0.000	0.3
85	0.0	0.089	0.042	1.258	0.000	0.3
90	0.0	0.082	0.040	1.177	0.000	0.3
95	0.0	0.075	0.038	1.102	0.000	0.2
100	0.0	0.070	0.036	1.033	0.000	0.2
105	0.0	0.064	0.034	0.973	0.000	0.2
110	0.0	0.060	0.033	0.918	0.000	0.2
115	0.0	0.056	0.031	0.869	0.000	0.2
120	0.0	0.052	0.030	0.824	0.000	0.1

Infiltration Trench (5)
Critical by Return Period: FEH: 2 years: Increase Rainfall (%): +0: 60 mins: Summer

Type : Infiltration Trench

Tables

Half Drain Down Time (mins)	-

Time (mins)	Total Inflow (L/s)	US Depth (m)	DS Depth (m)	Resident Volume(m³)	Flooded Volume (m³)	Total Outflow (L/s)
0	0.0	0.000	0.000	0.000	0.000	0.0
5	0.1	0.003	0.003	0.011	0.000	0.0
10	0.1	0.009	0.009	0.036	0.000	0.0
15	0.1	0.015	0.015	0.065	0.000	0.0
20	0.1	0.023	0.021	0.092	0.000	0.1
25	0.3	0.034	0.029	0.133	0.000	0.1
30	0.6	0.057	0.043	0.213	0.000	0.3
35	0.7	0.073	0.061	0.284	0.000	0.5
40	0.3	0.074	0.056	0.277	0.000	0.4
45	0.2	0.065	0.049	0.241	0.000	0.3
50	0.1	0.057	0.046	0.217	0.000	0.2
55	0.1	0.044	0.048	0.196	0.000	0.2
60	0.1	0.037	0.047	0.179	0.000	0.1
65	0.0	0.031	0.044	0.159	0.000	0.1
70	0.0	0.024	0.040	0.136	0.000	0.1
75	0.0	0.020	0.035	0.117	0.000	0.1
80	0.0	0.017	0.031	0.102	0.000	0.0
85	0.0	0.014	0.027	0.088	0.000	0.0
90	0.0	0.013	0.023	0.077	0.000	0.0
95	0.0	0.012	0.020	0.068	0.000	0.0
100	0.0	0.012	0.017	0.061	0.000	0.0
105	0.0	0.011	0.015	0.056	0.000	0.0
110	0.0	0.011	0.014	0.053	0.000	0.0
115	0.0	0.011	0.013	0.051	0.000	0.0
120	0.0	0.011	0.012	0.049	0.000	0.0

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Stormwater Control Results Storm Phase: West	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

Infiltration Trench (3)
Critical by Return Period: FEH: 30 years: Increase Rainfall (%): +40: 60 mins: Summer

Type : Infiltration Trench

Tables

Half Drain Down Time (mins)	5

Time (mins)	Total Inflow (L/s)	US Depth (m)	DS Depth (m)	Resident Volume(m³)	Flooded Volume (m³)	Total Outflow (L/s)
0	0.0	0.000	0.000	0.000	0.000	0.0
5	1.0	0.011	0.011	0.139	0.000	0.0
10	1.1	0.027	0.037	0.432	0.000	0.2
15	1.4	0.035	0.064	0.685	0.000	0.6
20	1.9	0.036	0.100	0.900	0.000	1.3
25	3.7	0.048	0.135	1.188	0.000	2.2
30	8.3	0.096	0.190	2.139	0.000	3.5
35	8.4	0.216	0.196	3.561	0.000	3.6
40	3.7	0.321	0.150	4.403	0.000	2.6
45	1.9	0.209	0.317	4.064	0.000	5.2
50	1.4	0.083	0.288	3.015	0.000	4.9
55	1.1	0.024	0.233	2.034	0.000	4.2
60	1.0	0.023	0.184	1.211	0.000	3.4
65	0.0	0.022	0.101	0.558	0.000	1.4
70	0.0	0.016	0.048	0.343	0.000	0.4
75	0.0	0.013	0.032	0.272	0.000	0.2
80	0.0	0.012	0.025	0.235	0.000	0.1
85	0.0	0.011	0.022	0.213	0.000	0.1
90	0.0	0.011	0.020	0.198	0.000	0.0
95	0.0	0.011	0.018	0.188	0.000	0.0
100	0.0	0.010	0.017	0.179	0.000	0.0
105	0.0	0.010	0.016	0.173	0.000	0.0
110	0.0	0.010	0.015	0.167	0.000	0.0
115	0.0	0.010	0.015	0.163	0.000	0.0
120	0.0	0.010	0.014	0.160	0.000	0.0

Infiltration Trench (4)
Critical by Return Period: FEH: 30 years: Increase Rainfall (%): +40: 60 mins: Summer

Type : Infiltration Trench

Tables

Half Drain Down Time (mins)	-

Time (mins)	Total Inflow (L/s)	US Depth (m)	DS Depth (m)	Resident Volume(m³)	Flooded Volume (m³)	Total Outflow (L/s)
0	0.0	0.000	0.000	0.000	0.000	0.0
5	0.3	0.009	0.007	0.039	0.000	0.0
10	0.3	0.021	0.020	0.105	0.000	0.2
15	0.4	0.022	0.030	0.128	0.000	0.4
20	0.6	0.024	0.039	0.150	0.000	0.5
25	1.1	0.030	0.074	0.242	0.000	0.5
30	2.5	0.129	0.182	0.744	0.000	0.0
35	2.5	0.285	0.338	1.498	0.000	0.0
40	1.1	0.364	0.417	1.880	0.000	0.7
45	0.6	0.408	0.461	2.090	0.000	0.0
50	0.4	0.438	0.491	2.236	0.000	0.0
55	0.3	0.461	0.514	2.347	0.000	0.0
60	0.3	0.480	0.533	2.441	0.000	0.0
65	0.0	0.489	0.543	2.486	0.000	0.0
70	0.0	0.489	0.542	2.483	0.000	0.0
75	0.0	0.489	0.542	2.481	0.000	0.0
80	0.0	0.488	0.541	2.478	0.000	0.0
85	0.0	0.487	0.540	2.476	0.000	0.0
90	0.0	0.487	0.540	2.474	0.000	0.0
95	0.0	0.487	0.540	2.471	0.000	0.0
100	0.0	0.486	0.539	2.469	0.000	0.0
105	0.0	0.485	0.538	2.466	0.000	0.0
110	0.0	0.485	0.538	2.463	0.000	0.0
115	0.0	0.484	0.537	2.461	0.000	0.0
120	0.0	0.484	0.537	2.458	0.000	0.0

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Stormwater Control Results Storm Phase: West	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

Infiltration Trench (2)
Critical by Return Period: FEH: 30 years: Increase Rainfall (%): +40: 60 mins: Summer

Type : Infiltration Trench

Tables

Half Drain Down Time (mins)	-

Time (mins)	Total Inflow (L/s)	US Depth (m)	DS Depth (m)	Resident Volume(m³)	Flooded Volume (m³)	Total Outflow (L/s)
0	0.0	0.000	0.000	0.000	0.000	0.0
5	1.0	0.008	0.007	0.147	0.000	0.0
10	1.2	0.021	0.024	0.462	0.000	0.2
15	1.5	0.025	0.065	0.735	0.000	0.8
20	2.0	0.027	0.099	0.925	0.000	1.4
25	4.0	0.034	0.144	1.243	0.000	2.6
30	9.0	0.046	0.239	2.120	0.000	4.4
35	9.0	0.047	0.355	3.339	0.000	5.0
40	4.0	0.037	0.399	3.806	0.000	4.8
45	2.1	0.030	0.378	3.408	0.000	3.9
50	1.5	0.026	0.345	2.925	0.000	2.8
55	1.2	0.025	0.326	2.670	0.000	1.6
60	1.1	0.024	0.329	2.680	0.000	0.7
65	0.0	0.019	0.336	2.722	0.000	0.2
70	0.0	0.015	0.338	2.714	0.000	0.0
75	0.0	0.014	0.340	2.714	0.000	0.0
80	0.0	0.013	0.340	2.714	0.000	0.0
85	0.0	0.012	0.340	2.713	0.000	0.0
90	0.0	0.012	0.341	2.711	0.000	0.0
95	0.0	0.012	0.341	2.709	0.000	0.0
100	0.0	0.011	0.341	2.708	0.000	0.0
105	0.0	0.011	0.341	2.707	0.000	0.0
110	0.0	0.011	0.340	2.694	0.000	0.1
115	0.0	0.011	0.338	2.676	0.000	0.1
120	0.0	0.011	0.337	2.656	0.000	0.1

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Stormwater Control Results Storm Phase: West	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

Attenuation Tank 2
Critical by Return Period: FEH: 30 years: Increase Rainfall (%): +40: 60 mins: Summer

Type : Cellular Storage

Tables

Half Drain Down Time (mins)	-

Time (mins)	Total Inflow (L/s)	Depth(m)	Resident Volume(m³)	Flooded Volume (m³)	Total Outflow (L/s)
0	0.0	0.000	0.000	0.000	0.0
5	1.2	0.002	0.170	0.000	0.0
10	1.4	0.006	0.555	0.000	0.1
15	1.7	0.011	0.977	0.000	0.2
20	2.3	0.016	1.489	0.000	0.2
25	13.6	0.045	4.064	0.000	-9.1
30	37.6	0.128	11.648	0.000	-27.4
35	40.0	0.260	23.674	0.000	-29.8
40	20.9	0.362	33.015	0.000	-16.0
45	12.1	0.416	37.893	0.000	-9.2
50	7.9	0.448	40.847	0.000	-5.8
55	6.0	0.471	42.910	0.000	-4.3
60	4.9	0.489	44.539	0.000	-3.4
65	0.2	0.497	45.296	0.000	0.8
70	0.1	0.492	44.906	0.000	1.4
75	0.1	0.488	44.513	0.000	1.4
80	0.1	0.483	44.085	0.000	1.4
85	0.1	0.479	43.680	0.000	1.4
90	0.0	0.475	43.281	0.000	1.4
95	0.0	0.470	42.887	0.000	1.4
100	0.0	0.466	42.497	0.000	1.3
105	0.0	0.462	42.115	0.000	1.3
110	0.0	0.458	41.740	0.000	1.3
115	0.0	0.454	41.369	0.000	1.3
120	0.0	0.450	40.999	0.000	1.3

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Stormwater Control Results Storm Phase: West	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

Attenuation Tank 3
Critical by Return Period: FEH: 30 years: Increase Rainfall (%): +40: 60 mins: Summer

Type : Cellular Storage

Tables

Half Drain Down Time (mins)	-

Time (mins)	Total Inflow (L/s)	Depth(m)	Resident Volume(m³)	Flooded Volume (m³)	Total Outflow (L/s)
0	0.0	0.000	0.000	0.000	0.0
5	1.2	0.002	0.170	0.000	0.0
10	1.4	0.006	0.547	0.000	0.1
15	1.7	0.011	0.949	0.000	0.3
20	2.4	0.016	1.408	0.000	-0.1
25	18.8	0.060	5.408	0.000	-14.3
30	37.3	0.152	13.667	0.000	-27.1
35	39.1	0.282	25.390	0.000	-28.4
40	17.1	0.380	34.312	0.000	-11.5
45	9.3	0.423	38.090	0.000	-6.4
50	7.2	0.449	40.532	0.000	-5.1
55	5.9	0.471	42.504	0.000	-4.2
60	4.8	0.489	44.098	0.000	-3.3
65	0.2	0.496	44.752	0.000	1.1
70	0.1	0.492	44.439	0.000	1.3
75	0.1	0.488	44.015	0.000	1.4
80	0.1	0.483	43.608	0.000	1.4
85	0.1	0.479	43.202	0.000	1.4
90	0.0	0.474	42.811	0.000	1.4
95	0.0	0.470	42.419	0.000	1.3
100	0.0	0.466	42.035	0.000	1.3
105	0.0	0.462	41.657	0.000	1.3
110	0.0	0.457	41.287	0.000	1.3
115	0.0	0.453	40.920	0.000	1.2
120	0.0	0.449	40.554	0.000	1.2

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Stormwater Control Results Storm Phase: West	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

Attenuation Tank 1
Critical by Return Period: FEH: 30 years: Increase Rainfall (%): +40: 60 mins: Summer

Type : Cellular Storage

Tables

Half Drain Down Time (mins)	-

Time (mins)	Total Inflow (L/s)	Depth(m)	Resident Volume(m³)	Flooded Volume (m³)	Total Outflow (L/s)
0	0.0	0.000	0.000	0.000	0.0
5	4.2	0.005	0.603	0.000	0.0
10	4.9	0.015	1.929	0.000	0.4
15	5.9	0.025	3.294	0.000	1.4
20	15.0	0.041	5.463	0.000	-6.9
25	25.9	0.086	11.376	0.000	-9.8
30	58.2	0.180	23.828	0.000	-21.9
35	60.3	0.315	41.814	0.000	-23.4
40	32.5	0.422	56.126	0.000	-14.7
45	20.3	0.481	63.827	0.000	-11.0
50	14.9	0.520	69.097	0.000	-8.3
55	11.4	0.550	73.064	0.000	-6.0
60	9.1	0.573	76.114	0.000	-4.4
65	2.3	0.586	77.927	0.000	-2.0
70	1.2	0.589	78.349	0.000	-1.0
75	0.9	0.591	78.619	0.000	-0.8
80	0.4	0.592	78.797	0.000	-0.3
85	0.1	0.593	78.892	0.000	-0.0
90	0.1	0.593	78.895	0.000	0.2
95	0.1	0.593	78.837	0.000	0.4
100	0.1	0.592	78.753	0.000	0.3
105	0.1	0.591	78.627	0.000	0.6
110	0.1	0.590	78.458	0.000	0.7
115	0.1	0.588	78.262	0.000	0.7
120	0.1	0.587	78.044	0.000	0.8

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Stormwater Control Results Storm Phase: West	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

Permeable Paving 1
Critical by Return Period: FEH: 30 years: Increase Rainfall (%): +40: 60 mins: Summer

Type : Porous Paving

Tables

Half Drain Down Time (mins)	-

Time (mins)	Total Inflow (L/s)	US Depth (m)	DS Depth (m)	Resident Volume(m³)	Flooded Volume (m³)	Total Outflow (L/s)
0	0.0	0.000	0.000	0.000	0.000	0.0
5	1.7	0.002	0.002	0.242	0.000	0.0
10	1.9	0.006	0.006	0.796	0.000	0.0
15	2.4	0.011	0.011	1.442	0.000	0.0
20	3.3	0.017	0.017	2.280	0.000	0.0
25	6.4	0.027	0.028	3.723	0.000	0.0
30	14.5	0.050	0.051	6.845	0.000	0.0
35	14.5	0.082	0.083	11.201	0.000	0.5
40	6.4	0.105	0.088	13.858	0.000	1.7
45	3.3	0.116	0.085	14.926	0.000	1.0
50	2.4	0.122	0.083	15.544	0.000	0.6
55	2.0	0.126	0.083	16.026	0.000	0.5
60	1.7	0.130	0.082	16.434	0.000	0.4
65	0.0	0.131	0.081	16.592	0.000	0.3
70	0.0	0.131	0.079	16.533	0.000	0.1
75	0.0	0.131	0.079	16.496	0.000	0.1
80	0.0	0.130	0.079	16.466	0.000	0.1
85	0.0	0.130	0.078	16.439	0.000	0.1
90	0.0	0.130	0.078	16.414	0.000	0.1
95	0.0	0.129	0.078	16.390	0.000	0.1
100	0.0	0.129	0.078	16.367	0.000	0.1
105	0.0	0.128	0.078	16.344	0.000	0.1
110	0.0	0.128	0.078	16.322	0.000	0.1
115	0.0	0.128	0.078	16.300	0.000	0.1
120	0.0	0.127	0.078	16.279	0.000	0.1

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Stormwater Control Results Storm Phase: West	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

Permeable Paving 2
Critical by Return Period: FEH: 30 years: Increase Rainfall (%): +40: 60 mins: Summer

Type : Porous Paving

Tables

Half Drain Down Time (mins)	-

Time (mins)	Total Inflow (L/s)	US Depth (m)	DS Depth (m)	Resident Volume(m³)	Flooded Volume (m³)	Total Outflow (L/s)
0	0.0	0.000	0.000	0.000	0.000	0.0
5	0.9	0.002	0.002	0.125	0.000	0.0
10	1.0	0.006	0.006	0.412	0.000	0.0
15	1.2	0.011	0.011	0.747	0.000	0.0
20	1.7	0.017	0.017	1.183	0.000	0.0
25	3.3	0.027	0.028	1.935	0.000	0.0
30	7.5	0.050	0.051	3.560	0.000	0.0
35	7.6	0.082	0.083	5.834	0.000	0.0
40	3.4	0.105	0.106	7.458	0.000	0.4
45	1.7	0.115	0.107	8.038	0.000	0.6
50	1.2	0.121	0.106	8.343	0.000	0.4
55	1.0	0.125	0.105	8.577	0.000	0.3
60	0.9	0.129	0.105	8.772	0.000	0.3
65	0.0	0.130	0.104	8.843	0.000	0.2
70	0.0	0.130	0.103	8.810	0.000	0.1
75	0.0	0.130	0.102	8.789	0.000	0.1
80	0.0	0.129	0.102	8.771	0.000	0.1
85	0.0	0.129	0.102	8.755	0.000	0.1
90	0.0	0.128	0.102	8.741	0.000	0.0
95	0.0	0.128	0.102	8.726	0.000	0.0
100	0.0	0.127	0.102	8.713	0.000	0.0
105	0.0	0.127	0.102	8.699	0.000	0.0
110	0.0	0.127	0.102	8.686	0.000	0.0
115	0.0	0.126	0.102	8.672	0.000	0.0
120	0.0	0.126	0.102	8.659	0.000	0.0

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Stormwater Control Results Storm Phase: West	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

Permeable Paving 3
Critical by Return Period: FEH: 30 years: Increase Rainfall (%): +40: 60 mins: Summer

Type : Porous Paving

Tables

Half Drain Down Time (mins)	-

Time (mins)	Total Inflow (L/s)	US Depth (m)	DS Depth (m)	Resident Volume(m³)	Flooded Volume (m³)	Total Outflow (L/s)
0	0.0	0.000	0.000	0.000	0.000	0.0
5	0.7	0.002	0.002	0.094	0.000	0.0
10	0.8	0.006	0.006	0.310	0.000	0.0
15	0.9	0.011	0.011	0.561	0.000	0.0
20	1.3	0.017	0.017	0.887	0.000	0.0
25	2.5	0.027	0.028	1.449	0.000	0.0
30	5.6	0.050	0.051	2.664	0.000	0.0
35	5.7	0.082	0.083	4.354	0.000	0.5
40	2.5	0.105	0.086	5.226	0.000	1.1
45	1.3	0.115	0.083	5.548	0.000	0.6
50	0.9	0.121	0.082	5.734	0.000	0.4
55	0.8	0.125	0.081	5.882	0.000	0.3
60	0.7	0.129	0.081	6.007	0.000	0.3
65	0.0	0.131	0.080	6.041	0.000	0.2
70	0.0	0.130	0.078	6.008	0.000	0.1
75	0.0	0.130	0.078	5.985	0.000	0.1
80	0.0	0.129	0.078	5.966	0.000	0.1
85	0.0	0.129	0.077	5.950	0.000	0.1
90	0.0	0.129	0.077	5.935	0.000	0.0
95	0.0	0.128	0.077	5.921	0.000	0.0
100	0.0	0.128	0.077	5.907	0.000	0.0
105	0.0	0.127	0.077	5.894	0.000	0.0
110	0.0	0.127	0.077	5.881	0.000	0.0
115	0.0	0.127	0.077	5.869	0.000	0.0
120	0.0	0.126	0.077	5.856	0.000	0.0

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Stormwater Control Results Storm Phase: West	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

Infiltration Trench (1)
Critical by Return Period: FEH: 30 years: Increase Rainfall (%): +40: 60 mins: Summer

Type : Infiltration Trench

Tables

Half Drain Down Time (mins)	5

Time (mins)	Total Inflow (L/s)	US Depth (m)	DS Depth (m)	Resident Volume(m³)	Flooded Volume (m³)	Total Outflow (L/s)
0	0.0	0.000	0.000	0.000	0.000	0.0
5	1.0	0.010	0.010	0.143	0.000	0.0
10	1.1	0.030	0.027	0.456	0.000	0.1
15	1.4	0.053	0.038	0.786	0.000	0.2
20	1.9	0.081	0.052	1.187	0.000	0.4
25	3.8	0.128	0.079	1.848	0.000	0.9
30	8.6	0.241	0.129	3.269	0.000	2.1
35	8.6	0.404	0.143	5.145	0.000	2.5
40	3.8	0.523	0.117	6.352	0.000	1.8
45	2.0	0.535	0.208	6.352	0.000	3.8
50	1.4	0.498	0.177	5.788	0.000	3.3
55	1.2	0.462	0.150	5.265	0.000	2.7
60	1.0	0.427	0.140	4.845	0.000	2.4
65	0.0	0.364	0.138	4.237	0.000	2.3
70	0.0	0.321	0.111	3.690	0.000	1.6
75	0.0	0.276	0.105	3.231	0.000	1.5
80	0.0	0.238	0.090	2.830	0.000	1.1
85	0.0	0.200	0.086	2.481	0.000	1.1
90	0.0	0.172	0.078	2.202	0.000	0.9
95	0.0	0.149	0.072	1.965	0.000	0.8
100	0.0	0.125	0.072	1.739	0.000	0.8
105	0.0	0.111	0.057	1.547	0.000	0.5
110	0.0	0.098	0.055	1.398	0.000	0.5
115	0.0	0.087	0.050	1.272	0.000	0.4
120	0.0	0.078	0.046	1.159	0.000	0.3

Infiltration Trench (5)
Critical by Return Period: FEH: 30 years: Increase Rainfall (%): +40: 60 mins: Summer

Type : Infiltration Trench

Tables

Half Drain Down Time (mins)	-

Time (mins)	Total Inflow (L/s)	US Depth (m)	DS Depth (m)	Resident Volume(m³)	Flooded Volume (m³)	Total Outflow (L/s)
0	0.0	0.000	0.000	0.000	0.000	0.0
5	0.2	0.009	0.009	0.035	0.000	0.0
10	0.3	0.025	0.024	0.105	0.000	0.1
15	0.3	0.042	0.033	0.159	0.000	0.2
20	0.5	0.056	0.044	0.211	0.000	0.3
25	0.9	0.077	0.069	0.308	0.000	0.4
30	2.4	0.163	0.218	0.808	0.000	-0.3
35	2.1	0.311	0.339	1.378	0.000	0.2
40	0.9	0.398	0.353	1.594	0.000	0.8
45	0.5	0.351	0.385	1.563	0.000	0.5
50	0.3	0.361	0.407	1.629	0.000	0.1
55	0.3	0.380	0.427	1.712	0.000	0.1
60	0.3	0.396	0.444	1.782	0.000	0.0
65	0.0	0.400	0.447	1.797	0.000	0.0
70	0.0	0.397	0.445	1.787	0.000	0.1
75	0.0	0.393	0.440	1.769	0.000	0.1
80	0.0	0.389	0.436	1.750	0.000	0.1
85	0.0	0.384	0.431	1.730	0.000	0.0
90	0.0	0.380	0.427	1.712	0.000	0.1
95	0.0	0.375	0.423	1.694	0.000	0.1
100	0.0	0.371	0.418	1.675	0.000	0.1
105	0.0	0.367	0.414	1.658	0.000	0.1
110	0.0	0.363	0.410	1.640	0.000	0.1
115	0.0	0.359	0.406	1.623	0.000	0.1
120	0.0	0.354	0.402	1.606	0.000	0.1

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Stormwater Control Results Storm Phase: West	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

Infiltration Trench (3)
Critical by Return Period: FEH: 100 years: Increase Rainfall (%): +45: 60 mins: Summer

Type : Infiltration Trench

Tables

Half Drain Down Time (mins)	10

Time (mins)	Total Inflow (L/s)	US Depth (m)	DS Depth (m)	Resident Volume(m³)	Flooded Volume (m³)	Total Outflow (L/s)
0	0.0	0.000	0.000	0.000	0.000	0.0
5	1.3	0.014	0.015	0.186	0.000	0.0
10	1.5	0.034	0.048	0.562	0.000	0.4
15	1.8	0.041	0.081	0.868	0.000	0.9
20	2.5	0.039	0.127	1.050	0.000	2.0
25	4.9	0.063	0.153	1.483	0.000	2.7
30	11.1	0.153	0.204	2.878	0.000	3.7
35	11.1	0.291	0.352	4.937	0.000	5.6
40	5.0	0.312	0.422	5.549	0.000	6.3
45	2.5	0.230	0.393	4.784	0.000	6.0
50	1.8	0.142	0.330	3.736	0.000	5.4
55	1.5	0.059	0.260	2.730	0.000	4.5
60	1.3	0.024	0.235	1.823	0.000	4.2
65	0.0	0.021	0.160	0.893	0.000	3.0
70	0.0	0.017	0.069	0.400	0.000	0.7
75	0.0	0.015	0.038	0.276	0.000	0.2
80	0.0	0.013	0.027	0.230	0.000	0.1
85	0.0	0.012	0.022	0.207	0.000	0.1
90	0.0	0.011	0.019	0.193	0.000	0.0
95	0.0	0.011	0.017	0.184	0.000	0.0
100	0.0	0.011	0.016	0.176	0.000	0.0
105	0.0	0.010	0.016	0.171	0.000	0.0
110	0.0	0.010	0.015	0.166	0.000	0.0
115	0.0	0.010	0.015	0.163	0.000	0.0
120	0.0	0.010	0.014	0.159	0.000	0.0

Infiltration Trench (4)
Critical by Return Period: FEH: 100 years: Increase Rainfall (%): +45: 60 mins: Summer

Type : Infiltration Trench

Tables

Half Drain Down Time (mins)	-

Time (mins)	Total Inflow (L/s)	US Depth (m)	DS Depth (m)	Resident Volume(m³)	Flooded Volume (m³)	Total Outflow (L/s)
0	0.0	0.000	0.000	0.000	0.000	0.0
5	0.4	0.012	0.009	0.052	0.000	0.1
10	0.4	0.023	0.028	0.127	0.000	0.3
15	0.5	0.024	0.037	0.146	0.000	0.5
20	0.8	0.027	0.055	0.184	0.000	0.6
25	1.5	0.062	0.114	0.420	0.000	0.0
30	3.4	0.210	0.263	1.137	0.000	0.0
35	3.4	0.419	0.472	2.144	0.000	0.0
40	1.5	0.543	0.596	2.742	0.000	1.2
45	0.8	0.587	0.640	2.954	0.000	0.2
50	0.6	0.626	0.679	3.140	0.000	0.0
55	0.5	0.656	0.709	3.288	0.000	0.0
60	0.4	0.682	0.735	3.414	0.000	0.0
65	0.0	0.695	0.748	3.475	0.000	0.0
70	0.0	0.694	0.747	3.472	0.000	0.0
75	0.0	0.694	0.747	3.469	0.000	0.0
80	0.0	0.693	0.746	3.467	0.000	0.0
85	0.0	0.693	0.746	3.465	0.000	0.0
90	0.0	0.692	0.745	3.462	0.000	0.0
95	0.0	0.692	0.745	3.460	0.000	0.0
100	0.0	0.691	0.744	3.457	0.000	0.0
105	0.0	0.691	0.744	3.455	0.000	0.0
110	0.0	0.690	0.743	3.453	0.000	0.0
115	0.0	0.690	0.743	3.450	0.000	0.0
120	0.0	0.689	0.742	3.448	0.000	0.0

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Stormwater Control Results Storm Phase: West	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

Infiltration Trench (2)
Critical by Return Period: FEH: 100 years: Increase Rainfall (%): +45: 60 mins: Summer

Type : Infiltration Trench

Tables

Half Drain Down Time (mins)	-

Time (mins)	Total Inflow (L/s)	US Depth (m)	DS Depth (m)	Resident Volume(m³)	Flooded Volume (m³)	Total Outflow (L/s)
0	0.0	0.000	0.000	0.000	0.000	0.0
5	1.4	0.011	0.010	0.197	0.000	0.0
10	1.6	0.025	0.040	0.606	0.000	0.4
15	2.0	0.027	0.092	0.898	0.000	1.3
20	2.7	0.030	0.125	1.089	0.000	2.1
25	5.3	0.037	0.174	1.467	0.000	3.4
30	12.0	0.052	0.305	2.803	0.000	4.8
35	12.0	0.053	0.470	5.000	0.000	4.5
40	5.4	0.106	0.545	6.274	0.000	4.4
45	2.7	0.103	0.546	6.254	0.000	3.8
50	2.0	0.086	0.533	5.958	0.000	2.9
55	1.6	0.076	0.527	5.779	0.000	1.9
60	1.4	0.077	0.530	5.815	0.000	0.9
65	0.0	0.082	0.535	5.904	0.000	0.0
70	0.0	0.081	0.534	5.896	0.000	0.0
75	0.0	0.081	0.534	5.887	0.000	0.0
80	0.0	0.081	0.533	5.879	0.000	0.0
85	0.0	0.080	0.533	5.871	0.000	0.0
90	0.0	0.080	0.533	5.866	0.000	0.0
95	0.0	0.080	0.532	5.860	0.000	0.0
100	0.0	0.079	0.532	5.854	0.000	0.0
105	0.0	0.079	0.532	5.848	0.000	0.0
110	0.0	0.079	0.532	5.844	0.000	0.0
115	0.0	0.078	0.531	5.840	0.000	0.0
120	0.0	0.078	0.531	5.837	0.000	0.0

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Stormwater Control Results Storm Phase: West	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

Attenuation Tank 2
Critical by Return Period: FEH: 100 years: Increase Rainfall (%): +45: 60 mins: Summer

Type : Cellular Storage

Tables

Half Drain Down Time (mins)	-

Time (mins)	Total Inflow (L/s)	Depth(m)	Resident Volume(m³)	Flooded Volume (m³)	Total Outflow (L/s)
0	0.0	0.000	0.000	0.000	0.0
5	1.6	0.003	0.228	0.000	0.0
10	1.8	0.008	0.734	0.000	0.1
15	2.2	0.014	1.288	0.000	0.3
20	8.5	0.031	2.818	0.000	-5.4
25	21.2	0.077	6.999	0.000	-15.2
30	50.0	0.194	17.684	0.000	-36.4
35	53.8	0.366	33.385	0.000	-39.1
40	30.3	0.511	46.558	0.000	-22.7
45	16.5	0.586	53.394	0.000	-12.6
50	10.8	0.630	57.396	0.000	-8.0
55	8.0	0.660	60.195	0.000	-5.7
60	6.9	0.685	62.422	0.000	-4.9
65	0.3	0.697	63.579	0.000	0.1
70	0.1	0.694	63.305	0.000	1.4
75	0.1	0.690	62.892	0.000	1.6
80	0.1	0.685	62.440	0.000	1.6
85	0.1	0.680	62.002	0.000	1.5
90	0.1	0.675	61.567	0.000	1.5
95	0.1	0.670	61.147	0.000	1.5
100	0.1	0.666	60.728	0.000	1.5
105	0.1	0.661	60.321	0.000	1.4
110	0.1	0.657	59.919	0.000	1.4
115	0.1	0.653	59.515	0.000	1.4
120	0.1	0.648	59.118	0.000	1.4

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Stormwater Control Results Storm Phase: West	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

Attenuation Tank 3
Critical by Return Period: FEH: 100 years: Increase Rainfall (%): +45: 60 mins: Summer

Type : Cellular Storage

Tables

Half Drain Down Time (mins)	-

Time (mins)	Total Inflow (L/s)	Depth(m)	Resident Volume(m³)	Flooded Volume (m³)	Total Outflow (L/s)
0	0.0	0.000	0.000	0.000	0.0
5	1.6	0.003	0.227	0.000	0.0
10	1.8	0.008	0.723	0.000	0.2
15	2.2	0.014	1.238	0.000	0.5
20	13.7	0.040	3.614	0.000	-10.7
25	23.1	0.101	9.037	0.000	-17.0
30	49.8	0.218	19.670	0.000	-36.2
35	54.8	0.395	35.626	0.000	-38.8
40	27.0	0.537	48.427	0.000	-19.4
45	12.1	0.599	54.037	0.000	-8.2
50	9.1	0.633	57.105	0.000	-6.3
55	7.6	0.661	59.647	0.000	-5.3
60	6.7	0.685	61.824	0.000	-4.7
65	0.3	0.696	62.859	0.000	0.6
70	0.1	0.694	62.638	0.000	1.3
75	0.1	0.689	62.200	0.000	1.5
80	0.1	0.684	61.767	0.000	1.6
85	0.1	0.679	61.329	0.000	1.5
90	0.1	0.675	60.901	0.000	1.5
95	0.1	0.670	60.486	0.000	1.4
100	0.1	0.666	60.073	0.000	1.4
105	0.1	0.661	59.670	0.000	1.4
110	0.1	0.657	59.273	0.000	1.4
115	0.1	0.652	58.874	0.000	1.4
120	0.1	0.648	58.481	0.000	1.4

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Stormwater Control Results Storm Phase: West	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

Attenuation Tank 1
Critical by Return Period: FEH: 100 years: Increase Rainfall (%): +45: 60 mins: Summer

Type : Cellular Storage

Tables

Half Drain Down Time (mins)	-

Time (mins)	Total Inflow (L/s)	Depth(m)	Resident Volume(m³)	Flooded Volume (m³)	Total Outflow (L/s)
0	0.0	0.000	0.000	0.000	0.0
5	5.7	0.006	0.807	0.000	0.1
10	6.5	0.019	2.545	0.000	0.8
15	7.9	0.032	4.256	0.000	2.3
20	18.4	0.067	8.828	0.000	-7.5
25	35.5	0.125	16.611	0.000	-14.1
30	75.7	0.250	33.186	0.000	-27.4
35	82.1	0.429	56.992	0.000	-30.1
40	44.6	0.574	76.344	0.000	-20.5
45	25.3	0.652	86.586	0.000	-13.1
50	18.7	0.700	93.069	0.000	-9.8
55	14.7	0.738	98.117	0.000	-7.4
60	12.4	0.769	102.211	0.000	-6.1
65	2.4	0.786	104.548	0.000	-1.9
70	1.4	0.790	105.116	0.000	-1.2
75	1.2	0.794	105.557	0.000	-1.1
80	0.8	0.796	105.909	0.000	-0.7
85	0.3	0.798	106.102	0.000	-0.2
90	0.1	0.798	106.166	0.000	0.1
95	0.1	0.798	106.136	0.000	0.2
100	0.1	0.797	106.068	0.000	0.4
105	0.1	0.797	105.939	0.000	0.6
110	0.1	0.795	105.794	0.000	0.6
115	0.1	0.794	105.613	0.000	0.8
120	0.1	0.792	105.386	0.000	0.9

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Stormwater Control Results Storm Phase: West	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

Permeable Paving 1
Critical by Return Period: FEH: 100 years: Increase Rainfall (%): +45: 60 mins: Summer

Type : Porous Paving

Tables

Half Drain Down Time (mins)	-

Time (mins)	Total Inflow (L/s)	US Depth (m)	DS Depth (m)	Resident Volume(m³)	Flooded Volume (m³)	Total Outflow (L/s)
0	0.0	0.000	0.000	0.000	0.000	0.0
5	2.3	0.002	0.002	0.324	0.000	0.0
10	2.6	0.008	0.008	1.061	0.000	0.0
15	3.2	0.014	0.014	1.924	0.000	0.0
20	4.3	0.022	0.023	3.048	0.000	0.0
25	8.5	0.037	0.037	4.963	0.000	0.0
30	19.3	0.067	0.068	9.141	0.000	0.0
35	19.4	0.110	0.094	14.438	0.000	3.6
40	8.7	0.141	0.090	17.733	0.000	2.4
45	4.4	0.155	0.087	19.186	0.000	1.3
50	3.2	0.163	0.084	19.996	0.000	0.9
55	2.6	0.168	0.083	20.628	0.000	0.7
60	2.3	0.173	0.083	21.168	0.000	0.6
65	0.0	0.175	0.081	21.369	0.000	0.4
70	0.0	0.175	0.079	21.288	0.000	0.2
75	0.0	0.174	0.079	21.242	0.000	0.1
80	0.0	0.174	0.079	21.203	0.000	0.1
85	0.0	0.173	0.079	21.165	0.000	0.1
90	0.0	0.173	0.079	21.127	0.000	0.1
95	0.0	0.173	0.079	21.091	0.000	0.1
100	0.0	0.172	0.079	21.054	0.000	0.1
105	0.0	0.172	0.079	21.017	0.000	0.1
110	0.0	0.171	0.079	20.981	0.000	0.1
115	0.0	0.171	0.079	20.945	0.000	0.1
120	0.0	0.170	0.079	20.909	0.000	0.1

Permeable Paving 2
Critical by Return Period: FEH: 100 years: Increase Rainfall (%): +45: 60 mins: Summer

Type : Porous Paving

Tables

Half Drain Down Time (mins)	-

Time (mins)	Total Inflow (L/s)	US Depth (m)	DS Depth (m)	Resident Volume(m³)	Flooded Volume (m³)	Total Outflow (L/s)
0	0.0	0.000	0.000	0.000	0.000	0.0
5	1.2	0.002	0.002	0.168	0.000	0.0
10	1.3	0.008	0.008	0.551	0.000	0.0
15	1.6	0.014	0.014	0.999	0.000	0.0
20	2.3	0.022	0.023	1.583	0.000	0.0
25	4.4	0.036	0.037	2.579	0.000	0.0
30	10.1	0.067	0.068	4.752	0.000	0.0
35	10.1	0.109	0.109	7.722	0.000	1.1
40	4.5	0.140	0.110	9.398	0.000	1.4
45	2.3	0.154	0.108	10.107	0.000	0.8
50	1.6	0.161	0.107	10.506	0.000	0.5
55	1.4	0.167	0.106	10.813	0.000	0.4
60	1.2	0.172	0.105	11.063	0.000	0.4
65	0.0	0.174	0.104	11.148	0.000	0.2
70	0.0	0.174	0.102	11.100	0.000	0.1
75	0.0	0.173	0.102	11.072	0.000	0.1
80	0.0	0.172	0.102	11.045	0.000	0.1
85	0.0	0.172	0.102	11.019	0.000	0.1
90	0.0	0.171	0.102	10.993	0.000	0.1
95	0.0	0.171	0.102	10.967	0.000	0.1
100	0.0	0.170	0.102	10.941	0.000	0.1
105	0.0	0.170	0.102	10.915	0.000	0.1
110	0.0	0.169	0.102	10.892	0.000	0.1
115	0.0	0.169	0.102	10.867	0.000	0.1
120	0.0	0.168	0.102	10.848	0.000	0.1

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Stormwater Control Results Storm Phase: West	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

Permeable Paving 3
Critical by Return Period: FEH: 100 years: Increase Rainfall (%): +45: 60 mins: Summer

Type : Porous Paving

Tables

Half Drain Down Time (mins)	-

Time (mins)	Total Inflow (L/s)	US Depth (m)	DS Depth (m)	Resident Volume(m³)	Flooded Volume (m³)	Total Outflow (L/s)
0	0.0	0.000	0.000	0.000	0.000	0.0
5	0.9	0.002	0.002	0.126	0.000	0.0
10	1.0	0.008	0.008	0.412	0.000	0.0
15	1.2	0.014	0.014	0.748	0.000	0.0
20	1.7	0.022	0.023	1.185	0.000	0.0
25	3.3	0.036	0.037	1.930	0.000	0.0
30	7.5	0.067	0.068	3.558	0.000	0.0
35	7.5	0.109	0.091	5.453	0.000	2.4
40	3.4	0.140	0.087	6.488	0.000	1.5
45	1.7	0.154	0.084	6.931	0.000	0.8
50	1.2	0.162	0.083	7.178	0.000	0.5
55	1.0	0.168	0.082	7.372	0.000	0.4
60	0.9	0.172	0.081	7.530	0.000	0.4
65	0.0	0.174	0.080	7.570	0.000	0.2
70	0.0	0.174	0.078	7.520	0.000	0.1
75	0.0	0.173	0.078	7.494	0.000	0.1
80	0.0	0.173	0.078	7.471	0.000	0.1
85	0.0	0.172	0.078	7.448	0.000	0.1
90	0.0	0.172	0.078	7.426	0.000	0.1
95	0.0	0.171	0.077	7.404	0.000	0.1
100	0.0	0.171	0.077	7.381	0.000	0.1
105	0.0	0.170	0.077	7.359	0.000	0.1
110	0.0	0.169	0.077	7.338	0.000	0.1
115	0.0	0.169	0.077	7.316	0.000	0.1
120	0.0	0.168	0.077	7.300	0.000	0.1

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Stormwater Control Results Storm Phase: West	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

Infiltration Trench (1)
Critical by Return Period: FEH: 100 years: Increase Rainfall (%): +45: 60 mins: Summer

Type : Infiltration Trench

Tables

Half Drain Down Time (mins)	15

Time (mins)	Total Inflow (L/s)	US Depth (m)	DS Depth (m)	Resident Volume(m³)	Flooded Volume (m³)	Total Outflow (L/s)
0	0.0	0.000	0.000	0.000	0.000	0.0
5	1.3	0.013	0.013	0.191	0.000	0.0
10	1.5	0.040	0.034	0.598	0.000	0.2
15	1.9	0.070	0.047	1.027	0.000	0.4
20	2.6	0.105	0.067	1.539	0.000	0.7
25	5.0	0.171	0.097	2.392	0.000	1.3
30	11.4	0.325	0.146	4.278	0.000	2.5
35	11.4	0.535	0.243	6.759	0.000	4.3
40	5.1	0.649	0.272	7.874	0.000	4.7
45	2.6	0.645	0.249	7.634	0.000	4.4
50	1.9	0.613	0.215	7.077	0.000	3.9
55	1.5	0.574	0.176	6.499	0.000	3.3
60	1.4	0.522	0.172	5.936	0.000	3.2
65	0.0	0.463	0.148	5.235	0.000	2.6
70	0.0	0.404	0.131	4.546	0.000	2.1
75	0.0	0.342	0.120	3.918	0.000	1.9
80	0.0	0.281	0.114	3.340	0.000	1.7
85	0.0	0.238	0.098	2.878	0.000	1.3
90	0.0	0.206	0.083	2.527	0.000	1.0
95	0.0	0.179	0.076	2.255	0.000	0.9
100	0.0	0.154	0.072	2.006	0.000	0.8
105	0.0	0.136	0.062	1.809	0.000	0.6
110	0.0	0.114	0.067	1.614	0.000	0.7
115	0.0	0.102	0.054	1.440	0.000	0.5
120	0.0	0.090	0.051	1.309	0.000	0.4

Infiltration Trench (5)
Critical by Return Period: FEH: 100 years: Increase Rainfall (%): +45: 60 mins: Summer

Type : Infiltration Trench

Tables

Half Drain Down Time (mins)	-

Time (mins)	Total Inflow (L/s)	US Depth (m)	DS Depth (m)	Resident Volume(m³)	Flooded Volume (m³)	Total Outflow (L/s)
0	0.0	0.000	0.000	0.000	0.000	0.0
5	0.3	0.011	0.011	0.047	0.000	0.0
10	0.4	0.034	0.030	0.134	0.000	0.1
15	0.5	0.054	0.040	0.200	0.000	0.3
20	0.6	0.066	0.054	0.256	0.000	0.4
25	1.2	0.099	0.109	0.440	0.000	0.2
30	3.3	0.251	0.340	1.250	0.000	-0.5
35	2.8	0.486	0.537	2.170	0.000	-0.0
40	1.3	0.563	0.568	2.403	0.000	1.8
45	0.6	0.537	0.566	2.340	0.000	0.6
50	0.5	0.549	0.594	2.423	0.000	0.2
55	0.4	0.572	0.619	2.527	0.000	0.1
60	0.3	0.594	0.642	2.623	0.000	0.1
65	0.0	0.601	0.648	2.650	0.000	0.0
70	0.0	0.599	0.646	2.642	0.000	0.1
75	0.0	0.594	0.642	2.624	0.000	0.1
80	0.0	0.589	0.637	2.602	0.000	0.1
85	0.0	0.585	0.632	2.582	0.000	0.1
90	0.0	0.580	0.627	2.563	0.000	0.1
95	0.0	0.576	0.623	2.544	0.000	0.1
100	0.0	0.571	0.618	2.524	0.000	0.1
105	0.0	0.567	0.614	2.505	0.000	0.1
110	0.0	0.562	0.609	2.485	0.000	0.1
115	0.0	0.558	0.605	2.467	0.000	0.0
120	0.0	0.553	0.601	2.449	0.000	0.1

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Stormwater Control Results Storm Phase: East	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

Permeable Paving 4
Critical by Return Period: FEH: 2 years: Increase Rainfall (%): +0: 60 mins: Summer

Type : Porous Paving

Tables

Half Drain Down Time (mins)	-

Time (mins)	Total Inflow (L/s)	US Depth (m)	DS Depth (m)	Resident Volume(m³)	Flooded Volume (m³)	Total Outflow (L/s)
0	0.0	0.000	0.000	0.000	0.000	0.0
5	3.6	0.002	0.000	0.394	0.000	0.0
10	6.9	0.011	0.001	2.027	0.000	0.0
15	8.6	0.024	0.001	4.341	0.000	-0.0
20	11.6	0.040	0.002	7.336	0.000	-0.1
25	21.7	0.063	0.004	12.172	0.000	-0.3
30	49.2	0.108	0.008	22.486	0.000	-1.0
35	54.0	0.163	0.016	38.364	0.000	-1.8
40	29.9	0.184	0.022	51.321	0.000	-1.4
45	16.8	0.171	0.026	58.121	0.000	-0.8
50	11.9	0.151	0.028	62.320	0.000	-0.3
55	9.7	0.134	0.030	65.550	0.000	-0.1
60	8.5	0.120	0.034	68.250	0.000	0.1
65	3.7	0.107	0.041	70.077	0.000	0.4
70	2.2	0.094	0.052	70.716	0.000	0.8
75	1.7	0.083	0.068	70.970	0.000	1.3
80	1.4	0.075	0.085	70.947	0.000	1.9
85	1.2	0.068	0.102	70.670	0.000	2.5
90	1.0	0.063	0.118	70.154	0.000	3.1
95	0.9	0.059	0.133	69.414	0.000	3.7
100	0.8	0.055	0.146	68.505	0.000	4.1
105	0.7	0.052	0.156	67.457	0.000	4.4
110	0.6	0.049	0.164	66.299	0.000	4.6
115	0.5	0.047	0.170	65.063	0.000	4.7
120	0.4	0.044	0.174	63.750	0.000	4.8

Infiltration Trench 6
Critical by Return Period: FEH: 2 years: Increase Rainfall (%): +0: 60 mins: Summer

Type : Infiltration Trench

Tables

Half Drain Down Time (mins)	-

Time (mins)	Total Inflow (L/s)	US Depth (m)	DS Depth (m)	Resident Volume(m³)	Flooded Volume (m³)	Total Outflow (L/s)
0	0.0	0.000	0.000	0.000	0.000	0.0
5	0.3	0.004	0.004	0.037	0.000	0.0
10	0.3	0.014	0.009	0.113	0.000	0.1
15	0.4	0.021	0.015	0.191	0.000	0.1
20	0.5	0.024	0.029	0.258	0.000	0.3
25	1.0	0.029	0.047	0.339	0.000	0.7
30	2.3	0.044	0.077	0.531	0.000	1.4
35	2.3	0.058	0.098	0.686	0.000	2.0
40	1.0	0.049	0.088	0.604	0.000	1.7
45	0.5	0.032	0.065	0.424	0.000	1.1
50	0.4	0.025	0.046	0.308	0.000	0.6
55	0.3	0.023	0.035	0.258	0.000	0.4
60	0.3	0.022	0.029	0.237	0.000	0.3
65	0.0	0.019	0.022	0.198	0.000	0.2
70	0.0	0.015	0.014	0.156	0.000	0.1
75	0.0	0.014	0.010	0.134	0.000	0.1
80	0.0	0.013	0.008	0.121	0.000	0.0
85	0.0	0.013	0.006	0.112	0.000	0.0
90	0.0	0.012	0.005	0.106	0.000	0.0
95	0.0	0.012	0.004	0.101	0.000	0.0
100	0.0	0.012	0.004	0.098	0.000	0.0
105	0.0	0.012	0.003	0.095	0.000	0.0
110	0.0	0.011	0.003	0.093	0.000	0.0
115	0.0	0.011	0.003	0.091	0.000	0.0
120	0.0	0.011	0.003	0.090	0.000	0.0

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Stormwater Control Results Storm Phase: East	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

Attenuation Tank 4
Critical by Return Period: FEH: 2 years: Increase Rainfall (%): +0: 60 mins: Summer

Type : Cellular Storage

Tables

Half Drain Down Time (mins)	-

Time (mins)	Total Inflow (L/s)	Depth(m)	Resident Volume(m³)	Flooded Volume (m³)	Total Outflow (L/s)
0	0.0	0.000	0.000	0.000	0.0
5	0.0	0.000	0.000	0.000	0.0
10	0.1	0.001	0.027	0.000	-0.1
15	0.3	0.002	0.087	0.000	-0.3
20	0.6	0.004	0.208	0.000	-0.6
25	1.5	0.009	0.491	0.000	-1.5
30	4.2	0.025	1.283	0.000	-4.2
35	5.2	0.053	2.754	0.000	-5.2
40	2.1	0.075	3.935	0.000	-2.1
45	0.1	0.081	4.250	0.000	-0.1
50	0.0	0.079	4.152	0.000	0.7
55	0.0	0.075	3.907	0.000	0.9
60	0.0	0.069	3.618	0.000	1.0
65	0.0	0.062	3.260	0.000	1.4
70	0.0	0.054	2.837	0.000	1.4
75	0.0	0.047	2.450	0.000	1.2
80	0.0	0.040	2.108	0.000	1.1
85	0.0	0.035	1.808	0.000	0.9
90	0.0	0.029	1.544	0.000	0.8
95	0.0	0.025	1.314	0.000	0.7
100	0.0	0.021	1.111	0.000	0.6
105	0.0	0.018	0.931	0.000	0.6
110	0.0	0.015	0.774	0.000	0.5
115	0.0	0.013	0.658	0.000	0.3
120	0.0	0.011	0.573	0.000	0.2

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Stormwater Control Results Storm Phase: East	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

Infiltration Trench (7)
Critical by Return Period: FEH: 2 years: Increase Rainfall (%): +0: 60 mins: Summer

Type : Infiltration Trench

Tables

Half Drain Down Time (mins)	-

Time (mins)	Total Inflow (L/s)	US Depth (m)	DS Depth (m)	Resident Volume(m³)	Flooded Volume (m³)	Total Outflow (L/s)
0	0.0	0.000	0.000	0.000	0.000	0.0
5	0.2	0.013	0.000	0.034	0.000	0.0
10	0.3	0.022	0.000	0.111	0.000	0.0
15	0.3	0.023	0.008	0.199	0.000	0.0
20	0.4	0.025	0.030	0.272	0.000	0.2
25	0.9	0.031	0.049	0.366	0.000	0.5
30	2.0	0.041	0.091	0.556	0.000	1.3
35	2.0	0.041	0.121	0.645	0.000	1.9
40	0.9	0.032	0.103	0.535	0.000	1.5
45	0.4	0.026	0.070	0.397	0.000	0.8
50	0.3	0.023	0.050	0.319	0.000	0.5
55	0.3	0.022	0.040	0.282	0.000	0.4
60	0.2	0.021	0.035	0.261	0.000	0.3
65	0.0	0.016	0.029	0.219	0.000	0.2
70	0.0	0.013	0.020	0.165	0.000	0.1
75	0.0	0.012	0.013	0.136	0.000	0.1
80	0.0	0.011	0.009	0.121	0.000	0.0
85	0.0	0.011	0.007	0.111	0.000	0.0
90	0.0	0.011	0.006	0.105	0.000	0.0
95	0.0	0.010	0.005	0.101	0.000	0.0
100	0.0	0.010	0.004	0.098	0.000	0.0
105	0.0	0.010	0.004	0.095	0.000	0.0
110	0.0	0.010	0.004	0.095	0.000	0.0
115	0.0	0.010	0.005	0.095	0.000	0.0
120	0.0	0.010	0.005	0.095	0.000	0.0

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Stormwater Control Results Storm Phase: East	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

Permeable Paving 4
Critical by Return Period: FEH: 30 years: Increase Rainfall (%): +40: 60 mins: Summer

Type : Porous Paving

Tables

Half Drain Down Time (mins)	-

Time (mins)	Total Inflow (L/s)	US Depth (m)	DS Depth (m)	Resident Volume(m³)	Flooded Volume (m³)	Total Outflow (L/s)
0	0.0	0.000	0.000	0.000	0.000	0.0
5	14.4	0.008	0.001	1.587	0.000	0.0
10	23.0	0.042	0.003	7.651	0.000	-0.1
15	27.5	0.078	0.005	15.194	0.000	-0.6
20	37.4	0.115	0.010	24.845	0.000	-1.0
25	71.3	0.168	0.017	40.719	0.000	-1.9
30	160.5	0.291	0.033	74.682	0.000	-4.7
35	172.0	0.483	0.059	125.941	0.000	-5.8
40	88.3	0.592	0.084	165.504	0.000	-4.0
45	45.5	0.590	0.108	185.117	0.000	-0.4
50	32.6	0.553	0.134	196.309	0.000	2.1
55	27.2	0.511	0.169	204.337	0.000	3.7
60	23.8	0.469	0.208	210.390	0.000	5.7
65	8.0	0.420	0.247	213.412	0.000	7.2
70	4.8	0.363	0.277	213.060	0.000	6.8
75	4.3	0.311	0.306	212.606	0.000	5.1
80	4.1	0.268	0.335	212.411	0.000	4.8
85	4.0	0.230	0.362	212.178	0.000	4.9
90	4.0	0.199	0.386	211.897	0.000	5.0
95	4.2	0.169	0.408	211.598	0.000	5.1
100	5.0	0.146	0.428	211.404	0.000	5.2
105	5.2	0.128	0.446	211.365	0.000	5.3
110	5.1	0.114	0.461	211.291	0.000	5.4
115	4.6	0.102	0.474	211.109	0.000	5.5
120	4.1	0.093	0.485	210.775	0.000	5.5

Infiltration Trench 6
Critical by Return Period: FEH: 30 years: Increase Rainfall (%): +40: 60 mins: Summer

Type : Infiltration Trench

Tables

Half Drain Down Time (mins)	-

Time (mins)	Total Inflow (L/s)	US Depth (m)	DS Depth (m)	Resident Volume(m³)	Flooded Volume (m³)	Total Outflow (L/s)
0	0.0	0.000	0.000	0.000	0.000	0.0
5	0.9	0.014	0.011	0.119	0.000	0.1
10	1.0	0.030	0.039	0.322	0.000	0.5
15	1.2	0.033	0.060	0.410	0.000	1.0
20	1.6	0.040	0.073	0.498	0.000	1.3
25	3.2	0.063	0.103	0.729	0.000	2.2
30	7.3	0.132	0.170	1.333	0.000	4.7
35	7.3	0.186	0.219	1.798	0.000	6.3
40	3.3	0.174	0.214	1.716	0.000	4.4
45	1.7	0.155	0.202	1.571	0.000	1.8
50	1.2	0.158	0.204	1.590	0.000	1.2
55	1.0	0.157	0.204	1.585	0.000	1.0
60	0.9	0.154	0.201	1.560	0.000	1.0
65	0.0	0.142	0.190	1.460	0.000	0.5
70	0.0	0.127	0.174	1.320	0.000	0.5
75	0.0	0.111	0.158	1.184	0.000	0.4
80	0.0	0.096	0.143	1.053	0.000	0.4
85	0.0	0.082	0.129	0.925	0.000	0.4
90	0.0	0.068	0.115	0.801	0.000	0.4
95	0.0	0.053	0.100	0.674	0.000	0.4
100	0.0	0.038	0.084	0.533	0.000	0.5
105	0.0	0.023	0.065	0.384	0.000	0.5
110	0.0	0.017	0.046	0.259	0.000	0.3
115	0.0	0.015	0.027	0.178	0.000	0.2
120	0.0	0.014	0.014	0.135	0.000	0.1

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Stormwater Control Results Storm Phase: East	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

Attenuation Tank 4
Critical by Return Period: FEH: 30 years: Increase Rainfall (%): +40: 60 mins: Summer

Type : Cellular Storage

Tables

Half Drain Down Time (mins)	35

Time (mins)	Total Inflow (L/s)	Depth(m)	Resident Volume(m³)	Flooded Volume (m³)	Total Outflow (L/s)
0	0.0	0.000	0.000	0.000	0.0
5	0.2	0.000	0.022	0.000	-0.2
10	1.2	0.004	0.228	0.000	-1.2
15	2.2	0.014	0.738	0.000	-2.2
20	3.3	0.030	1.560	0.000	-3.3
25	6.8	0.058	3.017	0.000	-6.8
30	16.7	0.123	6.400	0.000	-16.7
35	18.0	0.221	11.549	0.000	-18.0
40	8.2	0.302	15.773	0.000	-8.2
45	1.9	0.330	17.223	0.000	-1.9
50	0.3	0.335	17.516	0.000	-0.3
55	0.0	0.335	17.510	0.000	0.3
60	0.0	0.332	17.372	0.000	0.6
65	0.0	0.323	16.865	0.000	2.8
70	0.0	0.306	16.017	0.000	2.8
75	0.0	0.291	15.210	0.000	2.7
80	0.0	0.276	14.430	0.000	2.6
85	0.0	0.261	13.661	0.000	2.5
90	0.0	0.247	12.913	0.000	2.5
95	0.0	0.232	12.133	0.000	2.8
100	0.0	0.214	11.208	0.000	3.4
105	0.0	0.194	10.150	0.000	3.5
110	0.0	0.174	9.092	0.000	3.5
115	0.0	0.154	8.064	0.000	3.4
120	0.0	0.135	7.064	0.000	3.3

Infiltration Trench (7)
Critical by Return Period: FEH: 30 years: Increase Rainfall (%): +40: 60 mins: Summer

Type : Infiltration Trench

Tables

Half Drain Down Time (mins)	-

Time (mins)	Total Inflow (L/s)	US Depth (m)	DS Depth (m)	Resident Volume(m³)	Flooded Volume (m³)	Total Outflow (L/s)
0	0.0	0.000	0.000	0.000	0.000	0.0
5	0.8	0.028	0.000	0.112	0.000	0.0
10	0.9	0.031	0.036	0.335	0.000	0.3
15	1.1	0.033	0.070	0.440	0.000	0.8
20	1.4	0.036	0.088	0.516	0.000	1.2
25	2.8	0.047	0.126	0.697	0.000	2.1
30	6.4	0.066	0.235	1.137	0.000	4.3
35	6.4	0.067	0.338	1.528	0.000	5.5
40	2.9	0.049	0.309	1.271	0.000	5.2
45	1.5	0.038	0.144	0.685	0.000	2.6
50	1.1	0.033	0.097	0.521	0.000	1.4
55	0.9	0.031	0.080	0.458	0.000	1.0
60	0.8	0.030	0.079	0.443	0.000	0.7
65	0.0	0.019	0.095	0.419	0.000	0.0
70	0.0	0.013	0.113	0.415	0.000	0.0
75	0.0	0.012	0.119	0.415	0.000	0.0
80	0.0	0.011	0.121	0.415	0.000	0.0
85	0.0	0.011	0.123	0.415	0.000	0.0
90	0.0	0.011	0.124	0.415	0.000	0.0
95	0.0	0.010	0.125	0.415	0.000	0.0
100	0.0	0.010	0.126	0.415	0.000	0.0
105	0.0	0.010	0.126	0.415	0.000	0.0
110	0.0	0.010	0.127	0.415	0.000	0.0
115	0.0	0.010	0.127	0.415	0.000	0.0
120	0.0	0.010	0.128	0.415	0.000	0.0

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Stormwater Control Results Storm Phase: East	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

Permeable Paving 4
Critical by Return Period: FEH: 100 years: Increase Rainfall (%): +45: 480 mins: Winter

Type : Porous Paving

Tables

Half Drain Down Time (mins)	485

Time (mins)	Total Inflow (L/s)	US Depth (m)	DS Depth (m)	Resident Volume(m³)	Flooded Volume (m³)	Total Outflow (L/s)
0	0.0	0.000	0.000	0.000	0.000	0.0
5	0.2	0.000	0.000	0.028	0.000	0.0
10	1.3	0.001	0.000	0.226	0.000	0.0
15	3.0	0.005	0.000	0.872	0.000	0.0
20	4.5	0.011	0.001	2.013	0.000	0.0
25	5.6	0.020	0.001	3.526	0.000	0.0
30	6.4	0.030	0.001	5.315	0.000	-0.0
35	7.0	0.040	0.002	7.322	0.000	-0.1
40	7.4	0.050	0.003	9.475	0.000	-0.1
45	7.7	0.058	0.004	11.740	0.000	-0.2
50	7.9	0.065	0.005	14.076	0.000	-0.2
55	8.0	0.071	0.006	16.458	0.000	-0.2
60	8.1	0.076	0.007	18.869	0.000	-0.2
65	8.1	0.079	0.008	21.290	0.000	-0.2
70	8.1	0.081	0.009	23.725	0.000	-0.2
75	8.2	0.083	0.010	26.178	0.000	-0.2
80	8.2	0.085	0.011	28.644	0.000	-0.2
85	8.3	0.086	0.012	31.131	0.000	-0.2
90	8.5	0.087	0.013	33.649	0.000	-0.2
95	8.7	0.088	0.014	36.224	0.000	-0.2
100	8.9	0.089	0.015	38.869	0.000	-0.2
105	9.3	0.090	0.016	41.606	0.000	-0.2
110	9.8	0.091	0.018	44.468	0.000	-0.2
115	10.3	0.093	0.021	47.470	0.000	-0.2
120	10.9	0.095	0.025	50.643	0.000	-0.1
125	11.6	0.097	0.031	54.014	0.000	-0.1
130	12.4	0.100	0.038	57.604	0.000	0.1
135	13.5	0.103	0.048	61.437	0.000	0.2
140	14.5	0.107	0.059	65.529	0.000	0.5
145	15.8	0.111	0.071	69.884	0.000	0.8
150	17.1	0.116	0.085	74.517	0.000	1.2
155	18.6	0.121	0.101	79.434	0.000	1.7
160	20.1	0.127	0.117	84.650	0.000	2.2
165	21.7	0.133	0.134	90.174	0.000	2.7
170	23.4	0.139	0.153	96.045	0.000	3.3
175	25.2	0.146	0.172	102.275	0.000	4.1
180	27.1	0.152	0.192	108.826	0.000	4.5
185	28.9	0.160	0.213	115.792	0.000	5.0
190	30.8	0.167	0.234	123.179	0.000	5.3
195	32.7	0.175	0.250	131.108	0.000	5.4
200	34.5	0.183	0.268	139.570	0.000	5.4
205	36.3	0.191	0.287	148.672	0.000	4.6
210	38.0	0.199	0.309	158.629	0.000	3.3
215	39.7	0.208	0.332	169.357	0.000	3.0
220	41.2	0.218	0.356	180.588	0.000	3.0
225	42.6	0.228	0.377	192.245	0.000	3.1

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Stormwater Control Results Storm Phase: East	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

Time (mins)	Total Inflow (L/s)	US Depth (m)	DS Depth (m)	Resident Volume(m³)	Flooded Volume (m³)	Total Outflow (L/s)
230	43.8	0.239	0.398	204.244	0.000	3.1
235	44.8	0.254	0.418	216.574	0.000	3.3
240	45.5	0.271	0.438	229.111	0.000	3.4
245	45.7	0.288	0.457	241.755	0.000	3.5
250	45.2	0.303	0.475	254.327	0.000	3.6
255	44.5	0.318	0.493	266.685	0.000	3.8
260	43.5	0.332	0.510	278.721	0.000	3.9
265	42.3	0.344	0.528	290.395	0.000	4.1
270	40.9	0.355	0.544	301.644	0.000	4.2
275	39.4	0.365	0.561	312.417	0.000	4.4
280	37.8	0.374	0.577	322.671	0.000	4.5
285	36.0	0.380	0.593	332.369	0.000	4.7
290	34.3	0.386	0.608	341.490	0.000	4.9
295	32.6	0.390	0.623	350.045	0.000	5.0
300	30.8	0.393	0.637	358.022	0.000	5.2
305	29.1	0.394	0.651	365.438	0.000	5.3
310	27.5	0.395	0.664	372.327	0.000	5.4
315	26.1	0.395	0.677	378.697	0.000	5.7
320	24.8	0.395	0.689	384.599	0.000	5.8
325	23.5	0.394	0.701	390.087	0.000	5.9
330	22.3	0.394	0.864	395.261	1.999	5.6
335	21.0	0.392	0.881	400.055	4.588	5.7
340	19.6	0.391	0.899	404.434	7.458	5.7
345	18.4	0.388	0.919	408.401	10.508	5.8
350	17.1	0.385	0.939	411.972	13.677	5.9
355	15.9	0.382	0.960	415.157	16.925	5.9
360	14.8	0.377	0.976	417.981	19.357	6.0
365	13.8	0.373	0.979	420.472	19.801	6.0
370	12.9	0.368	0.981	422.659	20.094	6.1
375	12.1	0.364	0.982	424.582	20.316	6.1
380	11.4	0.361	0.983	426.271	20.489	6.1
385	10.8	0.358	0.984	427.763	20.626	6.1
390	10.3	0.357	0.985	429.084	20.736	6.1
395	9.8	0.356	0.985	430.259	20.823	6.2
400	9.5	0.356	0.986	431.316	20.894	6.2
405	9.3	0.356	0.986	432.285	20.951	6.2
410	9.1	0.356	0.987	433.197	20.999	6.2
415	9.0	0.357	0.987	434.065	21.041	6.2
420	8.9	0.358	0.987	434.900	21.076	6.2
425	8.8	0.359	0.987	435.709	21.108	6.2
430	8.8	0.360	0.988	436.495	21.369	6.2
435	8.6	0.361	0.989	437.255	21.783	6.2
440	8.5	0.361	0.990	437.972	22.261	6.2
445	8.2	0.362	0.991	438.630	22.778	6.2
450	7.9	0.361	0.992	439.193	23.311	6.2
455	7.4	0.361	0.993	439.622	23.837	6.2
460	6.7	0.360	0.995	439.875	24.333	6.3
465	5.9	0.358	0.996	439.897	24.772	6.3
470	4.9	0.356	0.997	439.630	25.117	6.4
475	3.7	0.353	0.997	439.003	25.320	6.4
480	2.1	0.349	0.997	437.944	25.327	6.5
485	1.3	0.345	0.997	436.505	25.089	6.5
490	0.9	0.342	0.996	434.861	24.557	6.5
495	0.8	0.339	0.994	433.150	23.698	6.6
500	0.7	0.338	0.991	431.368	22.487	6.5
505	0.5	0.337	0.988	429.613	21.205	6.6
510	0.4	0.336	0.986	427.795	20.978	6.6

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Stormwater Control Results Storm Phase: East	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

Time (mins)	Total Inflow (L/s)	US Depth (m)	DS Depth (m)	Resident Volume(m³)	Flooded Volume (m³)	Total Outflow (L/s)
515	0.3	0.333	0.986	425.948	20.886	6.6
520	0.3	0.330	0.985	424.075	20.821	6.6
525	0.2	0.327	0.985	422.148	20.759	6.6
530	0.2	0.324	0.985	420.279	20.700	6.6
535	0.2	0.321	0.984	418.365	20.639	6.6
540	0.2	0.317	0.984	416.446	20.576	6.6
545	0.1	0.314	0.983	414.523	20.513	6.6
550	0.1	0.311	0.983	412.573	20.449	6.6
555	0.1	0.308	0.983	410.665	20.385	6.5
560	0.1	0.305	0.982	408.733	20.319	6.6
565	0.1	0.302	0.982	406.782	20.252	6.5
570	0.1	0.298	0.981	404.861	20.186	6.6
575	0.1	0.295	0.981	402.923	20.118	6.6
580	0.1	0.292	0.980	400.974	20.049	6.6
585	0.1	0.289	0.980	399.041	19.980	6.6
590	0.1	0.286	0.980	397.098	19.910	6.6
595	0.1	0.282	0.979	395.153	19.839	6.6
600	0.1	0.279	0.979	393.207	19.768	6.6
605	0.1	0.276	0.978	391.253	19.695	6.6
610	0.1	0.273	0.978	389.311	19.623	6.6
615	0.1	0.270	0.977	387.362	19.550	6.6
620	0.1	0.266	0.977	385.400	19.476	6.6
625	0.1	0.263	0.976	383.463	19.403	6.6
630	0.1	0.260	0.976	381.512	19.330	6.6
635	0.1	0.257	0.975	379.541	19.256	6.6
640	0.1	0.254	0.975	377.611	19.184	6.6
645	0.1	0.250	0.974	375.660	19.112	6.6
650	0.1	0.247	0.974	373.708	19.041	6.6
655	0.1	0.244	0.974	371.757	18.973	6.6
660	0.1	0.241	0.973	369.806	18.908	6.6
665	0.1	0.238	0.973	367.855	18.848	6.6
670	0.1	0.234	0.972	365.905	18.795	6.6
675	0.1	0.231	0.972	363.954	18.755	6.6
680	0.1	0.228	0.972	362.004	18.743	6.6
685	0.1	0.225	0.971	360.054	18.538	6.6
690	0.0	0.222	0.967	358.103	18.003	6.6
695	0.0	0.219	0.962	356.149	17.187	6.6
700	0.0	0.217	0.955	354.193	16.094	6.5
705	0.0	0.216	0.946	352.202	14.698	6.6
710	0.0	0.216	0.935	350.274	13.075	6.6
715	0.0	0.216	0.923	348.245	11.113	6.6
720	0.0	0.216	0.906	345.827	8.642	6.6
725	0.0	0.216	0.889	343.252	5.988	6.6
730	0.0	0.216	0.873	340.776	3.422	6.5
735	0.0	0.216	0.858	338.464	1.070	6.6
740	0.0	0.216	0.696	336.412	0.000	6.5
745	0.1	0.215	0.692	334.472	0.000	6.5
750	0.0	0.212	0.689	332.555	0.000	6.4
755	0.0	0.209	0.687	330.645	0.000	6.4
760	0.0	0.207	0.684	328.739	0.000	6.4
765	0.0	0.204	0.682	326.837	0.000	6.4
770	0.0	0.202	0.679	324.941	0.000	6.4
775	0.0	0.199	0.676	323.047	0.000	6.4
780	0.0	0.196	0.674	321.157	0.000	6.4
785	0.0	0.194	0.671	319.271	0.000	6.3
790	0.0	0.191	0.669	317.388	0.000	6.3
795	0.0	0.189	0.666	315.508	0.000	6.3

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Stormwater Control Results Storm Phase: East	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

Time (mins)	Total Inflow (L/s)	US Depth (m)	DS Depth (m)	Resident Volume(m³)	Flooded Volume (m³)	Total Outflow (L/s)
800	0.0	0.186	0.664	313.632	0.000	6.3
805	0.0	0.184	0.661	311.760	0.000	6.3
810	0.0	0.181	0.659	309.879	0.000	6.3
815	0.0	0.179	0.656	308.027	0.000	6.3
820	0.0	0.176	0.654	306.166	0.000	6.2
825	0.0	0.173	0.651	304.305	0.000	6.2
830	0.0	0.171	0.649	302.447	0.000	6.2
835	0.0	0.168	0.646	300.591	0.000	6.2
840	0.0	0.166	0.644	298.739	0.000	6.2
845	0.0	0.163	0.641	296.891	0.000	6.2
850	0.0	0.161	0.639	295.047	0.000	6.2
855	0.0	0.158	0.636	293.205	0.000	6.2
860	0.0	0.156	0.634	291.368	0.000	6.2
865	0.0	0.153	0.631	289.535	0.000	6.2
870	0.0	0.151	0.629	287.706	0.000	6.1
875	0.0	0.148	0.626	285.881	0.000	6.1
880	0.0	0.146	0.624	284.059	0.000	6.1
885	0.0	0.143	0.621	282.240	0.000	6.1
890	0.0	0.141	0.619	280.425	0.000	6.1
895	0.0	0.138	0.616	278.613	0.000	6.1
900	0.0	0.136	0.614	276.806	0.000	6.1
905	0.0	0.133	0.612	275.003	0.000	6.0
910	0.0	0.131	0.609	273.203	0.000	6.0
915	0.0	0.129	0.607	271.407	0.000	6.1
920	0.0	0.126	0.604	269.613	0.000	6.0
925	0.0	0.124	0.602	267.824	0.000	6.0
930	0.0	0.121	0.600	266.038	0.000	6.0
935	0.0	0.119	0.597	264.257	0.000	6.0
940	0.0	0.116	0.595	262.478	0.000	5.9
945	0.0	0.114	0.592	260.703	0.000	5.9
950	0.0	0.112	0.590	258.932	0.000	6.0
955	0.0	0.109	0.588	257.165	0.000	5.9
960	0.0	0.107	0.585	255.396	0.000	5.9

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Stormwater Control Results Storm Phase: East	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

Infiltration Trench 6
Critical by Return Period: FEH: 100 years: Increase Rainfall (%): +45: 60 mins: Summer

Type : Infiltration Trench

Tables

Half Drain Down Time (mins)	-

Time (mins)	Total Inflow (L/s)	US Depth (m)	DS Depth (m)	Resident Volume(m³)	Flooded Volume (m³)	Total Outflow (L/s)
0	0.0	0.000	0.000	0.000	0.000	0.0
5	1.2	0.019	0.015	0.158	0.000	0.1
10	1.3	0.034	0.056	0.394	0.000	0.9
15	1.6	0.040	0.073	0.495	0.000	1.3
20	2.2	0.050	0.089	0.612	0.000	1.7
25	4.3	0.084	0.125	0.919	0.000	2.9
30	9.8	0.177	0.209	1.709	0.000	6.3
35	9.8	0.265	0.295	2.477	0.000	6.6
40	4.4	0.301	0.340	2.830	0.000	4.8
45	2.2	0.295	0.340	2.792	0.000	2.3
50	1.6	0.299	0.345	2.836	0.000	1.5
55	1.3	0.301	0.347	2.849	0.000	1.3
60	1.2	0.299	0.345	2.834	0.000	1.2
65	0.0	0.284	0.331	2.710	0.000	0.7
70	0.0	0.264	0.310	2.528	0.000	0.6
75	0.0	0.243	0.290	2.348	0.000	0.6
80	0.0	0.223	0.270	2.171	0.000	0.6
85	0.0	0.204	0.251	2.000	0.000	0.6
90	0.0	0.185	0.232	1.833	0.000	0.6
95	0.0	0.166	0.213	1.668	0.000	0.8
100	0.0	0.148	0.195	1.513	0.000	0.6
105	0.0	0.132	0.178	1.362	0.000	0.5
110	0.0	0.116	0.163	1.223	0.000	0.4
115	0.0	0.101	0.148	1.091	0.000	0.4
120	0.0	0.086	0.133	0.963	0.000	0.4

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Stormwater Control Results Storm Phase: East	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

Attenuation Tank 4
Critical by Return Period: FEH: 100 years: Increase Rainfall (%): +45: 60 mins: Summer

Type : Cellular Storage

Tables

Half Drain Down Time (mins)	-

Time (mins)	Total Inflow (L/s)	Depth(m)	Resident Volume(m³)	Flooded Volume (m³)	Total Outflow (L/s)
0	0.0	0.000	0.000	0.000	0.0
5	0.3	0.001	0.031	0.000	-0.3
10	2.0	0.007	0.380	0.000	-2.0
15	3.2	0.022	1.164	0.000	-3.2
20	4.7	0.045	2.342	0.000	-4.7
25	9.5	0.084	4.385	0.000	-9.5
30	21.8	0.172	8.947	0.000	-21.8
35	25.6	0.317	16.519	0.000	-25.6
40	11.0	0.424	22.138	0.000	-11.0
45	3.1	0.463	24.197	0.000	-3.1
50	0.9	0.474	24.757	0.000	-0.9
55	0.0	0.476	24.892	0.000	-0.0
60	0.0	0.475	24.832	0.000	0.4
65	0.0	0.464	24.270	0.000	3.5
70	0.0	0.443	23.179	0.000	3.6
75	0.0	0.423	22.111	0.000	3.5
80	0.0	0.403	21.060	0.000	3.4
85	0.0	0.383	20.048	0.000	3.4
90	0.0	0.364	19.055	0.000	3.3
95	0.0	0.346	18.097	0.000	3.1
100	0.0	0.328	17.164	0.000	3.0
105	0.0	0.311	16.275	0.000	2.8
110	0.0	0.296	15.444	0.000	2.7
115	0.0	0.280	14.654	0.000	2.6
120	0.0	0.266	13.887	0.000	2.5

Wickhurst Green:	Date: 07/07/2025		
	Designed by: Billie Bonham	Checked by:	Approved By:
Report Details: Type: Stormwater Control Results Storm Phase: East	Company Address: Markides Associates 81 Southwark Bridge Road London, SE1 0NQ		

Infiltration Trench (7)
Critical by Return Period: FEH: 100 years: Increase Rainfall (%): +45: 60 mins: Summer

Type : Infiltration Trench

Tables

Half Drain Down Time (mins)	-

Time (mins)	Total Inflow (L/s)	US Depth (m)	DS Depth (m)	Resident Volume(m³)	Flooded Volume (m³)	Total Outflow (L/s)
0	0.0	0.000	0.000	0.000	0.000	0.0
5	1.0	0.031	0.000	0.147	0.000	0.0
10	1.1	0.034	0.056	0.412	0.000	0.6
15	1.4	0.036	0.087	0.514	0.000	1.2
20	1.9	0.040	0.107	0.599	0.000	1.6
25	3.8	0.053	0.154	0.816	0.000	3.0
30	8.6	0.076	0.316	1.458	0.000	5.3
35	8.6	0.077	0.452	2.222	0.000	6.6
40	3.8	0.055	0.449	2.055	0.000	6.6
45	1.9	0.042	0.295	1.152	0.000	5.1
50	1.4	0.037	0.125	0.623	0.000	1.9
55	1.1	0.034	0.112	0.566	0.000	1.1
60	1.0	0.033	0.130	0.599	0.000	0.8
65	0.0	0.020	0.155	0.588	0.000	0.2
70	0.0	0.013	0.176	0.582	0.000	0.0
75	0.0	0.012	0.181	0.582	0.000	0.0
80	0.0	0.011	0.184	0.582	0.000	0.0
85	0.0	0.011	0.186	0.582	0.000	0.0
90	0.0	0.011	0.187	0.582	0.000	0.0
95	0.0	0.010	0.188	0.582	0.000	0.0
100	0.0	0.010	0.188	0.582	0.000	0.0
105	0.0	0.010	0.189	0.582	0.000	0.0
110	0.0	0.010	0.190	0.582	0.000	0.0
115	0.0	0.010	0.190	0.582	0.000	0.0
120	0.0	0.010	0.190	0.582	0.000	0.0