

Site name:

Site location:

This is an estimation of the greenfield runoff rate limits that are needed to meet normal best practice criteria in line with Environment Agency guidance "Preliminary rainfall runoff management for developments", W5-074/A/TR1/1 rev. E (2012) and the CIRIA SUDS Manual (2007). It is not to be used for detailed design of drainage systems. It is recommended that every drainage scheme uses hydraulic modelling software to finalise volume requirements and design details before drawings are produced.

Site coordinates

Latitude:

Longitude:

Reference:

Date:

Site characteristics

Total site area	33.8	ha
Significant public open space	30.42	ha
Area positively drained	3.38	ha

Methodology

Greenfield runoff method	IH124
Qbar estimation method	Calculate from SPR and SAAR
SPR estimation method	Calculate from SOIL type
SOIL type	1
HOST class	N/A
SPR	0.10

Hydrological characteristics

	Default	Edited	
SAAR	680	680	mm
M5-60 Rainfall Depth	17	17	mm
'r' Ratio M5-60/M5-2 day	0.3	0.3	
FEH/FSR conversion factor	1.02	1.02	
Hydrological region	9	9	
Growth curve factor: 1 year	0.88	0.88	
Growth curve factor: 10 year	1.42	1.42	
Growth curve factor: 30 year	1.78	1.78	
Growth curve factor: 100 year	2.18	2.18	

Greenfield runoff rates

	Default	Edited	
Qbar	0.55	0.55	l/s
1 in 1 year	5.00	5.00	l/s
1 in 30 years	6.02	6.02	l/s
1 in 100 years	7.37	7.37	l/s

Please note that a minimum flow of 5 l/s applies to any site

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Site characteristics

Total site area	33.8	ha
Significant public open space	30.42	ha
Area positively drained	3.38	ha

Methodology

Greenfield runoff method	FEH	
Qmed estimation method	Calculate from BFI and SAAR	
BFI and SPR estimation method	Calculate from dominant HOST	
HOST class	N/A	
BFI / BFIHOST	0.00	
Qmed	N/A	l/s
Qbar / Qmed Conversion Factor	N/A	

Hydrological characteristics

	Default	Edited	
SAAR	680	680	mm
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FEH/FSR conversion factor	1.02	1.02	
Hydrological region	9	9	
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Growth curve factor: 10 year	1.42	1.42	
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Growth curve factor: 100 year	2.18	2.18	

Greenfield runoff rates

	Default	Edited	
Qbar	---	---	l/s
1 in 1 year	---	---	l/s
1 in 30 years	---	---	l/s
1 in 100 years	---	---	l/s

Please note that a minimum flow of 5 l/s applies to any site