

## Greenfield runoff rate estimation for sites

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Calculated	Sohan Ghim	ire	Site Details						
by:	Contain aniini		Latitude:	53.87584° N					
Site name:	Twin Brook F	arm,	Longitude:	2.37549° W					
Site location:	Upbrooks Clitheroe BE	37 1PL							
This is an estimation of meet normal best praguidance "Rainfall rung (2013), the SuDS Manustandards for SuDS (Dorates may be the basis surface water runoff for the standards for substandards for SuDS (Dorates may be the basis surface water runoff for the substandards for SuDS (Dorates may be the basis surface water runoff for the substandards for SuDS (Dorates may be the basis surface water runoff for the substandards for SuDS (Dorates may be substandards).	ctice criteria in li off management Ial C753 (Ciria, 201 efra, 2015). This ir s for setting cons	ne with Environr for developmen 5) and the non- Iformation on gr	nent Agency hts", SC030219 statutory reenfield runoff	1793783323 Mar 14 2023 14:33					
Runoff estimation	n approach	IH124							
Site characteris	tics		Notes						
Total site (area (ha):	D.11		(1) Is Q <sub>BAR</sub> < 2.0 l/s/ha?						
Methodology									
$Q_{BAR}$ estimation method:	Calculate and SAAF	e from SPR	When Q <sub>BAR</sub> is < 2.0 l/s/ha t are set at 2.0 l/s/ha.	then limiting discharge rates					
SPR estimation	Calculate from SOIL								
method:	type		(2) Are flow rates < 5.0 l/	s?					
Soil characteristics	Default	Edited	Where flow rates are less than 5.0 l/s consent for						
SOIL type:	4	4	discharge is usually set at 5.0 l/s if blockage from vegetation and other materials is possible. Lower						
HOST class:	N/A	N/A	consent flow rates may b	rates may be set where the blockage					
SPR/SPRHOST:	0.47	0.47	risk is addressed by using appropriate drainage elements.						
Hydrological Default Edited characteristics		(3) Is SPR/SPRHOST ≤ 0.3?							
SAAR (mm):	1241	1241	Where groundwater levels are low enough the use of soakaways to avoid discharge offsite would normally be preferred for disposal of surface water runoff.						
Hydrological region:	10	10							
Growth curve factor 1 year:	0.87	0.87							
Growth curve	1.7	1.7							
factor 30 years:			_						
	2.08	2.08							

Growth curve factor 100 years:

Growth curve factor 200

2.37 2.37

years:

Greenfield runoff rates	Default	Edited
Q <sub>BAR</sub> (I/s):	1.04	1.04
1 in 1 year (I/s):	0.9	0.9
1 in 30 years (I/s):	1.76	1.76
1 in 100 year (I/s):	2.16	2.16
1 in 200 years (I/s):	2.46	2.46

This report was produced using the greenfield runoff tool developed by HR Wallingford and available at www.uksuds.com. The use of this tool is subject to the UK SuDS terms and conditions and licence agreement, which can both be found at www.uksuds.com/terms-and-conditions.htm. The outputs from this tool are estimates of greenfield runoff rates. The use of these results is the responsibility of the users of this tool. No liability will be accepted by HR Wallingford, the Environment Agency, CEH, Hydrosolutions or any other organisation for the use of this data in the design or operational characteristics of any drainage scheme.