## Appendix G

**MicroDrainage Greefield Runoff Rates** 



Growth curve factor 200

years:

## Greenfield runoff rate estimation for sites

www.uksuds.com | Greenfield runoff tool

						www.uks	uds.com   Greenfield	run		
Calculated by:	ted by: Tamsin Jones				, logged in	Site Details				
Site name:	Cottered			e HOW	riogged iri.	Latitude:	51.95120	3° N		
Site location:	Cottered					Longitude:	0.1024	ŀ° W		
This is an estimation of the greenfield runoff rates that are use criteria in line with Environment Agency guidance "Rainfall runof SCO30219 (2013) , the SuDS Manual C753 (Ciria, 2015) and the non-				noff mana	gement for developments",	Reference:	2288735	5005		
Defra, 2015). This info	ormation on g	reenfield rund	off rates may	be the ba	asis for setting consents for	Date:	Jul 11 2024 0	9:33		
Runoff estimation approach			FEH Stati	istical						
Site charac <sup>.</sup>	teristics	3			Notes					
Total site area (ha):					(1) Is Q <sub>BAR</sub> < 2.0 l/s/ha?					
Methodolog	gy				, , , , , , , , , , , , , , , , , , , ,					
Q <sub>MED</sub> estimation m	<u> </u>			SAAR	When $Q_{BAR}$ is < 2.0 l/s/ha then limiting discharge rates are set at 2.0 l/s/ha.					
3FI and SPR metho	od: Specify BFI manually									
HOST class:	lass: N/A									
BFI / BFIHOST:	0.349				(2) Are flow rates < 5.0 l/s?					
<sub>MED</sub> (I/s):				Where flow rates are less than 5.0 l/s consent for discharge is usually set at 5.0 l/s if blockage						
Q <sub>BAR</sub> / Q <sub>MED</sub> factor:	1.14				from vegetation and other materials is possible.					
Hydrological characteristics <sub>Default Edit</sub>				ited	Lower consent flow rates may be set where the blockage risk is addressed by using appropriate drainage elements.					
SAAR (mm):		620	620		di alliage elements	<b>.</b>				
Hydrological regio	on:	6	6		(3) Is SPR/SPRH	OST ≤ 0.3?				
Growth curve factor 1 year:		0.85	0.85							
Growth curve factor 30 vears:		2.3	2.3		Where groundwater levels are low enough the use of soakaways to avoid discharge offsite					
Growth curve fact years:	tor 100	3.19	3.19		would normally be preferred for disposal of					

3.74

3.74

Greenfield runoff rates	Default	Edited
Q <sub>BAR</sub> (I/s):		3.5
1 in 1 year (I/s):		2.98
1 in 30 years (I/s):		8.06
1 in 100 year (I/s):		11.18
1 in 200 years (l/s):		13.1

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.