

Greenfield runoff rate estimation for sites

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Calculated by: Charlie N Site name: Sale		Neville			Site Details		
					Latitude:	53.42417° N	
l					Longitude: 2.32993° W		
Site location: Sale, Manchester This is an estimation of the greenfield runoff rates that are used to practice criteria in line with Environment Agency guidance "Rainfall management for developments", SC030219 (2013), the SuDS Manual and the non-statutory standards for SuDS (Defra, 2015). This inform runoff rates may be the basis for setting consents for the drainage runoff from sites.					753 (Ciria, 2015) ion on greenfield Date:	951911811 Jan 27 2023 15:22	
Runoff estimation approach FEH Statistical				cal			
Site characteri	stics				Notes		
Total site area (ha): 0.2158					(1) Is Q _{BAR} < 2.0 l/s/ha?)	
Methodology	Г						
Q _{MED} estimation method:		Calculate from BFI and SAAR		-I and SAAR	When Q_{BAR} is < 2.0 l/s/ha then limiting discharge rates		
BFI and SPR method:		Specify BFI manually			are set at 2.0 l/s/ha.		
HOST class:		19					
BFI / BFIHOST:		0.682			(2) Are flow rates < 5.0 l/s?		
Q _{MED} (I/s):		1.76			Where flow rates are less than 5.0 l/s consent for discharge is usually set at 5.0 l/s if blockage from		
Q _{BAR} / Q _{MED} factor.		1.08					
Hydrological characteristics	Default Edited		Edited	vegetation and other materials is possible. Lower consent flow rates may be set where the blockage risk is addressed by using appropriate drainage			
SAAR (mm):			831	837	elements.		
Hydrological regi		10	10	(3) Is SPR/SPRHOST ≤ 0.3?			
Growth curve fac		0.87	0.87				
Growth curve fac	ars:	1.7	1.7	Where groundwater levels are low enough the use of soakaways to avoid discharge offsite would normally be preferred for disposal of surface water runoff.			
Growth curve factor 100 years:			2.08			2.08	
Growth curve fac years:		2.37	2.37				
Greenfield rund	off rates	De	əfault	Edited			

 QBAR (I/s):
 1.89
 0.54

 1 in 1 year (I/s):
 1.65
 0.47

 1 in 30 years (I/s):
 3.22
 0.92

 1 in 100 year (I/s):
 3.94
 1.13

 1 in 200 years (I/s):
 4.49
 1.29

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