

Greenfield runoff rate estimation for

53.77548° N

sites

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Calculated by:	James Farron		Site Details	
Site name:	Cottam Parkway -		Latitude:	
	Catchment 8		Longitude:	
Site location: This is an estimation	Cottam of the greenfield runoff rates that are used	to meet normal best practice criteria in line with Environment Agency	Deference	

This is an estimation of the greenfield runoff rates that are used to meet normal best practice criteria in line with Environment Agency guidance "Rainfall runoff management for developments", SC030219 (2013), the SuDS Manual C753 (Ciria, 2015) and the non-statutor standards for SuDS (Defra, 2015). This information on greenfield runoff rates may be the basis for setting consents for the drainage of surface water runoff from sites.

2.77036° W
77066916
Nov 03 2022 17:30

Runoff estimation a	pproach	IH124		
Site characteristics				Notes
Total site area (ha): 1.	221			(1) Is Q _{BAB} < 2.0 l/s/ha?
Methodology				(1) 10 QBAR < 2.0 #0/11d.
Q _{BAR} estimation metho	d: Calc	ulate from SPR	and SAAR	When Q_{BAR} is < 2.0 l/s/ha then limiting discharge rates are set
SPR estimation method	d: Calc	ulate from SOIL	. type	at 2.0 l/s/ha.
Soil characteristics	Defau	ult Edit	ed	
SOIL type:	4	4		(2) Are flow rates < 5.0 l/s?
HOST class:	N/A	N/A		N// (1 1 1 1 5 0 1/ 1 1 5 0 1/
SPR/SPRHOST:	0.47	0.47		Where flow rates are less than 5.0 l/s consent for discharge is usually set at 5.0 l/s if blockage from vegetation and other
Hydrological charac	teristics	Default	Edited	materials is possible. Lower consent flow rates may be set where the blockage risk is addressed by using appropriate
SAAR (mm):		966	966	drainage elements.
Hydrological region:		10	10	(3) Is SPR/SPRHOST ≤ 0.3?
Growth curve factor 1 y	year:	0.87	0.87	(J) IS OF IN OF INTO ST & U.S.
Growth curve factor 30	years:	1.7	1.7	Where groundwater levels are low enough the use of
Growth curve factor 10	0 years:	2.08	2.08	soakaways to avoid discharge offsite would normally be preferred for disposal of surface water runoff.
Growth curve factor 20	0 years:	2.37	2.37	

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Greenfield runoff rates	Default	Edited
Q _{BAR} (I/s):	8.59	8.59
d to d (1/a)		
1 in 1 year (l/s):	7.48	7.48
1 in 30 years (l/s):	14.61	14.61
	1 1.0 1	11.01
1 in 100 year (l/s):	17.87	17.87
1 in 200 years (l/s):	20.36	20.36

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.