

Greenfield runoff rate estimation for

53.77480° N

2.76641° W

938661334

www.uksuds.com | Greenfield runoff tool

Calculated by:	James Farron		Site Details	
Site name:			Latitude:	
Site name.	Cottam Parkway -			
Site location:	Catchment 6 Cottam		Longitude:	
	o contract of the contract of	to meet normal best practice criteria in line with Environment Agency 30219 (2013), the SuDS Manual C753 (Ciria, 2015) and the non-statutory	Reference:	

standards for SuDS (Defra, 2015). This information on greenfield runoff rates may be the basis for setting consents for the drainage of Date: Nov 03 2022 17:29 surface water runoff from sites. Runoff estimation approach | IH124 Site characteristics **Notes** Total site area (ha): 0.227 (1) Is $Q_{BAR} < 2.0 \text{ l/s/ha}$? Methodology Q_{BAR} estimation method: Calculate from SPR and SAAR When Q_{BAR} is < 2.0 l/s/ha then limiting discharge rates are set at 2.0 l/s/ha. SPR estimation method: Calculate from SOIL type Default Edited Soil characteristics SOIL type: 4 (2) Are flow rates < 5.0 l/s?

SPR/SPRHOST: 0.47 0.47 Edited Default Hydrological characteristics

1.7

2.08

2.37

N/A

1.7

2.08

2.37

SAAR (mm): 966 966 Hydrological region: 10 10 Growth curve factor 1 year: 0.87 0.87

N/A

Growth curve factor 30 years: Growth curve factor 100 years:

Growth curve factor 200 years:

HOST class:

where the blockage risk is addressed by using appropriate drainage elements.

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 materials is possible. Lower consent flow rates may be set

(3) Is SPR/SPRHOST ≤ 0.3 ?

Where groundwater levels are low enough the use of soakaways to avoid discharge offsite would normally be preferred for disposal of surface water runoff.

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Greenfield runoff rates	Default	Edited
Q _{BAR} (I/s):	1.6	1.6
1 in 1 year (l/s):	1.39	1.39
1 in 30 years (l/s):	2.72	2.72
1 in 100 year (l/s):	3.32	3.32
1 in 200 years (l/s):	3.79	3.79

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.