

Greenfield runoff rate estimation for sites

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Calculated by:	Mark Wren
Site name:	Spanker Lane
Site location:	Nether Heage

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-statutory standards for SuDS (Defra, 2015). This information on greenfield runoff rates may

the basis for setting consents for the drainage of surface water runoff from sites.

Site Details

Latitude: 53.05237° N Longitude: 1.47031° W

Reference:

827223215

Date: Jun 01 2020 14:41

Runoff estimation approach

IH124

Site characteristics

Notes

Total site area (ha):

0.9336

(1) Is $Q_{BAR} < 2.0 \text{ l/s/ha}$?

Methodology

Q_{BAR} estimation method: SPR estimation method:

Calculate from SPR and SAAR

2

N/A

0.3

Dofoult

3.04

Default

Edited

2

N/A

0.3

Editod

3.04

Calculate from SOIL type

When Q_{BAR} is < 2.0 l/s/ha then limiting discharge rates are set at 2.0 l/s/ha.

Soil characteristics

SOIL type:

HOST class:

SPR/SPRHOST:

(2) Are flow rates < 5.0 l/s?

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

Hydrological characteristics

SAAR (mm):

Hydrological region:

Growth curve factor 1 year:

Growth curve factor 30 years:

Growth curve factor 100 years:

Growth curve factor 200 years:

Delault	Edited
797	797
4	4
0.83	0.83
2	2
2.57	2.57

(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.

Greenfield runoff rates

Q_{BAR} (I/s):

1 in 1 year (l/s):

1 in 30 years (I/s):

1 in 100 year (l/s):

1 in 200 years (I/s):

Default	Edited
1.98	1.98
1.64	1.64
3.96	3.96
5.09	5.09
6.02	6.02

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