

Calculated by:

Greenfield runoff rate estimation for sites

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Site name: 38 Frognal Lane

Site location: 38 Frognal Lane

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

Site Details

Latitude: 51.55398° N

Longitude: 0.184° W

Reference: 3575170103

Date: Mar 20 2020 18:33

Runoff estimation approach

IH124

Site characteristics

Total site area (ha): .1

Notes

2.0 l/s/ha.

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

Methodology

SOIL type:

HOST class:

SAAR (mm):

SPR/SPRHOST:

Q_{BAR} estimation method: Calculate from SPR and SAAR

Calculate from SOIL type

SPR estimation method:

0.47

Default Edited

N/A N/A

0.47

Soil characteristics

4

Hydrological characteristics

Hydrological region:

Growth curve factor 1 year:

Growth curve factor 30 years:

Growth curve factor 100 years:

Growth curve factor 200 years:

Default	Edited
650	650
6	6
0.85	0.85
2.3	2.3
3.19	3.19
3.74	3.74

(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.

When QBAR is < 2.0 l/s/ha then limiting discharge rates are set at

(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

Edited Default Q_{BAR} (I/s): 0.44 0.44 1 in 1 year (l/s): 0.38 0.38 1 in 30 years (I/s): 1.02 1.02 1 in 100 year (l/s): 1.41 1.41 1 in 200 years (l/s): 1.66 1.66

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