Appendix C

Greenfield Run-off Rate Assessment

Greenfield runoff estimation for sites

www.uksuds.com | Greenfield runoff tool

Calculated by:	Anthony McNevin
Site name:	Ford Airfield (FEH)
Site location:	Ford,Arundel, BN18 0FL

This is an estimation of the greenfield runoff rate limits that are needed to meet normal best practice criteria in line with Environment Agency guidance "Preliminary rainfall runoff management for developments", W5-074/A/TR1/1 rev. E (2012) and the SuDS Manual, C753 (Ciria, 2015). This information on greenfield runoff rates may be the basis for setting consents for the drainage of surface water runoff from sites.

Site coordinates

Latitude:	50.81915° N
Longitude:	0.59118° W

Reference:	6514889
Date:	2019-01-11T12:04:44

Methodology	FEH Statistical

Site characteristics

Total site area (ha)	1

Methodology

Qmed estimation method	Specify QMed manually
BFI and SPR estimation method	Calculate from dominant HOST
HOST class	N/A
BFI / BFIHOST	0
Qmed (l/s)	1.0
Qbar / Qmed Conversion Factor	1.14

Hydrological characteristics

	Default	Edited
SAAR (mm)	736	736
Hydrological region	7	7
Growth curve factor: 1 year	0.85	0.85
Growth curve factor: 30 year	2.3	2.3
Growth curve factor: 100 year	3.19	3.19

Notes:

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

Normally limiting discharge rates which are less than 2.0 l/s/ha are set at 2.0 l/s/ha.

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

Where flow rates are less than 5.0 l/s consents are usually set at 5.0l/s if blockage from vegetation and other materials is possible. Lower consent flow rates may be set in which case blockage work must be addressed by using appropriate drainage elements

(3) Is SPR/SPRHOST ≤ 0.3?

Greenfield runoff rates

	Default	Edited
Qbar (l/s)	NaN	1.14
1 in 1 year (l/s)	NaN	0.97
1 in 30 years (l/s)	NaN	2.61
1 in 100 years (l/s)	NaN	3.62

ARUN DISTRICT COUNCIL F/4/20/OUT

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Appendix D

Infiltration Rate Test Results

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Notes:-

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Legend

Site Boundary

Rev.	Date	Amendment	By	Chk.
D	10.02.20	Basins revised due to groundwater monitoring results	IS	AM
C	19.12.19	Site boundary revised	IS	AM
B	24.10.19	Land use plan updated	IS	AM
A	11.07.19	Site Layout updated	IS	AM

Status: Indicative

Wates REDROW HOMES REDROW HOMES Wates

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Client: Wates Redrow

Job: Ford Airfield

Title: Infiltration Drainage Assessment

Scale 1:5000 @ A1 | Date February 2019

Drawn by IS | Checked by | Approved by

Accredited Contractor

Drawing No. C85228-D104 | Rev. D

QA Ref: QD019 Rev D