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From: Jason Osborn [REDACTED] On Behalf Of Jason Osborn

Sent: 29 June 2021 14:06

To: Anita Gardner <Anita.Gardner@arun.gov.uk>

Subject: F/05/21/PL - Erection of 23 No. dwellings - Land to the rear of Painters Croft, Burndell Road, Yapton

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Dear Anita,

Reply to Engineers comments regarding surface water drainage - 22nd June 2021

I am writing in reference to our planning application F/05/21/PL.

In response to the engineers comments and holding objection. I have attached a plan showing the position of the watercourse is within the title of Paynters Croft, along with title plans for both Paynters Croft and Abbotsfield Estate for reference. As you will see the plan shows the southern bank of the watercourse is clearly within the boundary and therefore entitled to discharge without the consent of Abbotsfield Estate, if the application is approved.

I also noted a comment in relation to greenfield calculations, which I have also attached.

Whilst writing, I thought it maybe a good opportunity to discuss the proposed development in further detail either in person or over a zoom/teams call if and when appropriate with you?

I look forward to hearing from you.

Kind Regards



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Calculated by:	Daniel Lytton
Site name:	Land off Burndell Road
Site location:	BN18 0GB

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:	50.81486° N
Longitude:	0.60461° W
Reference:	2154385384
Date:	Oct 28 2020 17:44

Runoff estimation approach

IH124

Site characteristics

Total site area (ha):	1.34
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Methodology

Q _{BAR} estimation method:	Calculate from SPR and SAAR
SPR estimation method:	Calculate from SOIL type

Soil characteristics

	Default	Edited
SOIL type:	3	3
HOST class:	N/A	N/A
SPR/SPRHOST:	0.37	0.37

Hydrological characteristics

	Default	Edited
SAAR (mm):	727	727
Hydrological region:	7	7
Growth curve factor 1 year:	0.85	0.85
Growth curve factor 30 years:	2.3	2.3
Growth curve factor 100 years:	3.19	3.19
Growth curve factor 200 years:	3.74	3.74

Notes

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

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

(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

	Default	Edited
Q _{BAR} (l/s):	4.02	4.02
1 in 1 year (l/s):	3.42	3.42
1 in 30 years (l/s):	9.25	9.25
1 in 100 year (l/s):	12.84	12.84
1 in 200 years (l/s):	15.05	15.05

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.