

Re: Planning Decision on M/48/19/HH : 8 West Drive

gary longhurst [REDACTED]

Thu 19/03/2020 17:35

To: Tim Murray [REDACTED]

Hi Tim, hope you are well.

As per our chat here are the details.

The water levels are as follows

Jan 1st 2020 12.5cm

8th 1cm

15th 37cm

22nd 5cm

29th 11cm

Feb5th 10cm

I then filled the hole to 80cm deep from 120cm deep.

Filled it with water to 30 cm deep and timed it from 27.5 to 12.5cm.

The following times were recorded.

March 11th 1 hour 2mins

12th 1 hour 5 minutes

14th 55 mins.

I believe I have followed that correctly. Let me know if not as I still have til end of March to sort,

Thanks mate.

Gary

From: Tim Murray [REDACTED]**Sent:** 26 July 2019 12:34**To:** [REDACTED]**Subject:** FW: Planning Decision on M/48/19/HH : 8 West DriveSent from [Mail](#) for Windows 10

From: [REDACTED]**Sent:** 26 July 2019 11:36**To:** t.murray1@btinternet.com**Subject:** Planning Decision on M/48/19/HH : 8 West Drive<http://www.arun.gov.uk>

DX 57406 Littlehampton

You can view Arun District Council's Privacy Policy from <https://www.arun.gov.uk/privacy-policy>

Important Notice This e-mail is intended exclusively for the addressee and may contain information that is confidential and/or privileged. If you are not the intended recipient (or authorised to receive it for the addressee), please notify the sender and delete the e-mail immediately; using, copying, or disclosing it to anyone else, is strictly prohibited and may be unlawful. Any views, opinions or options presented are solely those of the author and do not necessarily represent those of Arun District Council. The information in this e-mail may be subject to public disclosure under the Freedom of Information Act 2000, therefore we cannot guarantee that we will not provide the whole or part of this e-mail to a third party. The Council reserves the right to monitor e-mails in accordance with relevant legislation. Whilst outgoing e-mails are checked for viruses, we cannot guarantee this e-mail is virus-free or has not been intercepted or changed and we do not accept liability for any damage caused. Any reference to "e-mail" in this disclaimer includes any attachments.

8 WEST DRIVE, MIDDLETON ON SEA, SOAKAWAY DESIGN.

Design based on drainage results supplied by client.

Area of roof drained = 65M^2 .

$r=0.35$ $Z1=0.62$.

M5-15 rainfall = 12.4mm.

M5-30 rainfall = $20 \times 0.79 = 15.8\text{mm}$.

With 10 year return period rainfalls

M10-15 = 12.4×1.23

M10-30 = $15.8 \times 1.24 = 19.59$.

Inflow to soakaway = $65 \times 19.59 = 1.27\text{M}^3$.

Volume of test hole = $0.6 \times 0.6 \times 1.2$

Take middle test result of 62 minutes .

Volume outflowing between 27.5 and 12.5CM = $0.15 \times 0.6 \times 0.6 = 0.054\text{M}^3$ Area of
drainage outflow = $(0.15 \times 0.6 \times 0.4) = 0.6 \times 0.6 = 0.72\text{M}^3$

$f = 0.054 / 0.72 \times 62 \times 60 = 2.02 \times 10^{-5}$.

Outflow from soakaway = $a \times 50 \times f \times D$.

Assume pit 2.0m long, effective depth (below pipe invert) 1.5m, width = W

Outflow = $(2 \times 2 \times 0.75) + (2 \times W \times 0.75) + 2 \times W \times 2.02 \times 10^{-5}$

$= 3.0 + 3.5W + 2.02 \times 10^{-5}$

Effective volume of soakaway with 30% free volume = $2.0 \times 1.5 \times W \times 0.3$
 $= 0.9W\text{M}^3$

For satisfactory storage, $1.27 - (3.0 + 3.5W) \times 2.02 \times 10^{-5} = 0.9W$

$W = 1.41\text{M}$, soakaway to be 2.0m x 1.41m x 1.5m below pipe invert.