

From: Laura Gibbons
Sent: 25 June 2018 10:48
To: Zac Denton
Subject: FW: Percolation tests for 7 barrack lane Bognor Regis URGENT application AW/346/16/HH

Zac,
Please see correspondence below relating to AW/153/18/DOC
As you can see, despite the lack of formal plans, I have had numerous discussions with the applicant and I am happy that what will be constructed will meet our requirements. The condition was also imposed by a previous employee, the proposed development is outside of the requirements where we would normally apply this condition, therefore our requirements have been less stringent.
Thanks,

Laura Gibbons, MEng, GMICE
Engineer (Drainage & Coastal)

Laura Gibbons | Engineer (Drainage & Coastal), Engineering Services, Arun District Council | Location: First Floor, Arun Civic Centre,
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From: james smith [REDACTED]
Sent: 16 May 2018 14:12
To: Planning
Cc: Laura Gibbons
Subject: Fwd: Percolation tests for 7 barrack lane Bognor Regis URGENT application AW/346/16/HH

HI

I have been trying to upload the details of my drainage soak away onto the planning portal but it keeps on rejecting me and closing down

I have spoken to you tec team and they have suggested I email you the details
Please see the email string below with that I have had with your engineer detailing the proposed soak away for you to discharge the condition no 4 on my planning application

I am planning on starting the work next week so would be very grateful if you could let me know if this is ok ASAP so I can start

Thank you for your assistance

Regards

jAMES smith

Begin forwarded message:

From: Laura Gibbons <Laura.Gibbons@arun.gov.uk>
Subject: RE: Percolation tests for 7 barrack lane Bognor Regis URGENT application AW/346/16/HH
Date: 16 May 2018 at 11:56:21 BST
To: 'james smith' [REDACTED]

Hi James,

I am happy with the level of detail you have gone into. If you supply the details to the planners, along with a formal DOC application, then the condition should be able to be discharged.

Regards,

Laura Gibbons, MEng, GMICE
Engineer (Drainage & Coastal)

Laura Gibbons | Engineer (Drainage & Coastal), Engineering Services, Arun District Council |
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-----Original Message-----

From: james smith [REDACTED]

Sent: 15 May 2018 15:52

To: Laura Gibbons

Subject: Re: Percolation tests for 7 barrack lane Bognor Regis URGENT application AW/346/16/HH

Hi Laura

Thank you for all your help and agreeing that the test I carried out are sufficient

I have had I look at the wavin site and this recommends using aquacell eco and to the depth and sizes you recommended 4mx2.5mx 1 m deep excavation this will allow for 100 mm of sharp sand in the bottom and a coverage of 500mm on top. each crate is 1000mx500x400 deep and hold 190 litres and this will be surrounded in geo textile and then 10mm pea shingle as recommended by the manufacturer

The soak away will be situated 6m from the building and 6 meters from the neighbouring property and will be returned to lawn once finished

Please let me know if this is ok to send to the planners as I need to start asap

Regards

James smith

On 8 May 2018, at 11:07, Laura Gibbons <Laura.Gibbons@arun.gov.uk> wrote:

Hi James,

The soakaway tests give a worst case infiltration rate of 1.39×10^{-5} . This is relatively good for the area. As you completed the soakaway test after the heavy rainfall we had I am happy to negate the need for groundwater monitoring in this case as long as factor of safety of at least 2 is applied to drainage design calculations, and the base of the soakaway is set no lower than 1.0m.

I have done a quick calculation to see if the soakaway is large enough. And have found that at least 4m³ tank volume is required if crates are to be used (volume would be greater if rubble filled). I would recommend that the depth of actual tanking is no greater than 0.5m, so that some cover depth can be given. Is the soakaway to be positioned in a grassed area? If so, you could therefore have a 4x2.5x0.4m soakaway. If rubble is to be used, less cover depth would be required. But obviously void area is lower, so a greater volume would be required. Having completed a quick calculation you would need 14m³ tank volume. This could be in the form of 6.5x3x0.7m soakaway.

I would recommend you look at manufacturers details for soakaways, an example of a company who provides these is wavin or polystorm r. This will enable you to understand the details required to install these correctly and the minimum cover requirements, as this will vary per manufacturer.

Let me know your thoughts on this.

Regards,

Laura Gibbons, MEng, GMICE
Engineer (Drainage & Coastal)

Laura Gibbons | Engineer (Drainage & Coastal), Engineering Services, Arun District Council | Location:
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-----Original Message-----

From: james smith [REDACTED]

Sent: 08 May 2018 10:22

To: Laura Gibbons

Subject: Percolation tests for 7 barrack lane Bognor Regis URGENT application AW/346/16/HH

Hi Laura

Hope you had a good weekend

As discussed last Thursday I carried out the percolation test for the soak away required for my extension

The soakaway is 1200x1200x 1300 deep

I completely filled the hole and timed the water soakage from the 75% to 25% mark as discussed and carried this out three times

I allowed the pit to completely empty between tests

1st time was 3 hours 6 mins

2nd was 3 hours 34 mins

3rd was 4 hours 6 mins

Please can you let me know if this soak away is large enough and if it needs to be crates or rubble filled

also we discussed the fact that there was a stipulation on my planning application to carry out a winter ground level test and I was asked to speak with your department to see if I needed to carry this out which you stated was probably not required and you would speak to Richard Temple for me so that I can start the ground works as I need start the building ASAP [REDACTED]

I did dig the soak away after the recent wet weather and did not reach the water table and there was no evidence that the water level had ever come up this high as no residue or deposits were present

Please can you confirm receipt of this email

I look forward to hearing from you

Regards

James Smith

<http://www.arun.gov.uk>

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