

From: Simon Davis
Sent: 11 July 2018 09:23
To: Planning.Responses
Subject: FW: Sack Lane, Lidsey, West Sussex - Planning Application No. AL/60/18/DOC

2nd Drainage Engineers comments

Kind Regards

Simon J Davis MRTPI | Principal Planning Officer, Planning Department, Directorate of Place, Arun District Council |
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Save the environment - think before you print.

From: Laura Gibbons
Sent: 11 July 2018 09:15
To: 'Stephen Penfold'
Cc: Simon Davis
Subject: RE: Sack Lane, Lidsey, West Sussex - Planning Application No. AL/60/18/DOC

Hi Steve,

Thank you for sending through the revised designs. Glad to see that you are taking steps towards containing the water on site. However I have numerous concerns regarding the plans, as follows:

- Pumping is not a sustainable solution. This is a last resort measure that I feel there is currently insufficient justification for.
- Why can the surface water not be discharged via infiltration? Foul water final effluent is being infiltrated. Why not the surface water? This would remove the need for the surface water pumping.
- Winter infiltration testing is required to appropriately size the drainage. And winter groundwater monitoring is required to ensure invert levels of infiltration structures are set above the groundwater level.
- There is no detail demonstrating how the discharge of surface water is controlled. I.e. hydrobrake, orifice, pumping rate.

Regards,

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: [REDACTED]
Sent: 10 July 2018 09:45
To: Laura Gibbons
Cc: Simon Davis; 'Richard Atkinson'; 'Sue Frodsham'
Subject: Sack Lane, Lidsey, West Sussex - Planning Application No. AL/60/18/DOC

Hi Laura,

Further to our e-mail correspondence last week, please find attached a copy of our revised drawing no. 18094/100'B', showing the amended underground drainage proposals for the above. I also attach further copies of our drawing no.'s 18094/101 and 102 showing drainage and pavement construction details.

In response to the queries raised in your e-mail of 05.07.18, I would advise as follows:-

1. All drainage has been moved onto the 'site' as defined by the red lines shown on the planning drawings.
2. All discharges into the ground have been raised to as high as can practicably be achieved on site using pumps and outside areas indicated at 'medium' risk of flooding from surface water flooding, as shown on the EA's flood maps. In our opinion, this should negate the need for any winter groundwater monitoring, as the drainage cannot physically be lifted any higher on the site.
3. The percolation test results obtained are indicative of soil with poor drainage characteristics as was expected and this is reflected by the large trench soakaway and drainage field designed. In our opinion and from our experience, they are satisfactory for sizing the trench soakaway and drainage field, without the need for further 'winter' percolation testing. If however you insisted on 'winter' percolation testing, this can be done in due course at a later date. If either soakaway trench and drainage field proved to be undersized, they can simply be extended within the defined site area.
4. I do not know if you received our construction details on drawing no.'s 18094/101 and 102 previously, however these show details for the proposed pavement constructions, including all the permeable paving.

Please could I ask you to review the attached amended proposals and if you have any further queries, to let me know.

Regards

Steve Penfold
For and on behalf of **STEPHEN PENFOLD ASSOCIATES LIMITED**