

From: Richard Temple
Sent: 20 September 2017 16:49
To: Planning.Responses
Subject: FW: FP/134/17/DOC 20 Sea Drive, Felpham

Please scan as further correspondence from Drainage Engineer.

Regards,

Richard Temple | Senior Planning Officer, Directorate of Place, Arun District Council | Location: First Floor, Arun Civic Centre, Maltravers Road, Littlehampton, BN17 5LF
Internal: 37591 | External: +44 (0) 1903 737591 | E-mail: Richard.temple@arun.gov.uk

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From: Paul Cann
Sent: 20 September 2017 13:48

Subject: RE: FP/134/17/DOC 20 Sea Drive, Felpham

Alex

I have had a look through the report and note the investigations to date. As a result, I would like to confirm the following;

1. Shallow soakage has not been fully explored. The percolation tests carried out were far too deep for the local conditions.
2. Groundwater levels are influenced by tidal conditions in this area. Groundwater readings were not undertaken within suitable high tides ranges.
3. Provided the offsite surface water drain was kept sufficiently behind the main sea wall, then the coastal defences will not be affected. This can be discussed in more detail on site. Obviously you will also require permission from landowners and WSCC (due to the public footpath), as well as Southern Water for the connection/possible adoption?. The alternative is to requisition a pipe from Southern Water, although this is a lengthy process.

Any connection of surface water to the foul sewer will be strongly resisted.

On that basis, I would suggest the following;

1. Investigate shallow soakage. Undertake the percolation tests now (normal requirement is within the winter). These need to be in accordance with BRE365. A safety factor can be applied to the results to allow for winter influence.
2. Further investigate the off-site connection to the public surface water sewer.

Regards

Paul Cann
Senior Engineer (Drainage & Coastal)

Paul Cann | Senior Engineer (Drainage & Coastal), Engineering Services, Arun District Council | Location: First Floor, Arun Civic Centre, Maltravers Road, Littlehampton, BN17 5LF

Internal: 37819 | External: +44 (0) 1903 737819 | Fax: +44 (0) 1903 716019 | E-mail: Paul.Cann@arun.gov.uk

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From: [REDACTED]
Sent: 30 August 2017 17:12
To: Paul Cann

Subject: FP/134/17/DOC 20 Sea Drive, Felpham

Dear Paul

Trevor Pullen has asked if I can send through to you a copy of the ground investigation report relating to the above scheme. I attach a copy for your information - my apologies for not sending this through sooner, I have been on annual leave. The report confirms the presence of Made Ground overlying Silty Clay and a ground water level of around 2m bgl, which suggests that the use of soakage devices is not viable. However, percolation tests were undertaken on site to establish if any amount of soakage could be utilised in the scheme. The soakage rates were poor but it was concluded that a small amount of surface water could be discharged into soakage devices to reduce the reliance on the existing system. With this in mind we designed the system to direct any seepage from the basement structure into new soakage devices, with the remaining surface water directed to an outfall. To reduce the surface water discharge further, new attenuation devices were designed into the system in order that the overall surface water discharge from the site could be reduced by around 62% of that from the previous dwelling.

Regarding point 1 of your email to Trevor, a capacity check has not been undertaken as the discharge from the new dwelling is less than that of the existing.

Regarding the public surface water sewer to the east of the property, a design was produced in which the new below ground drainage system utilised this. A sewer requisition was incorporated into the new below ground drainage design and advice given as to the potential route to the existing SW outfall. Concerns were raised in relation to the risk of damaging the existing sea defences that are located around the property and in the area between the outfall and the property boundary. In addition the SW drain run would run through a public right of way which presented further challenges. An alternative solution was to cross the neighbours land with a new SW run but this did not deal with the issues associated with potential damage to the existing sea defences. As such it was decided that the risk were better managed by reducing significantly the surface water discharge and utilising the existing combined connection to the north of the property. Southern Water have given approval for this new connection.

A great deal of design has been completed on several drainage options over the last 18 months and the team feel that all viable options have been explored. By reducing the SW discharge rate significantly, we hope that you can sign off the proposals as they currently stand.

If you require anything further please do not hesitate to contact me.

Kind regards

Alex Forbes
Partner

CampbellReith

Raven House,
29 Linkfield Lane,
Redhill, Surrey
RH1 1SS



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