



01st May 2018

Our Ref: 881292 FRA L01

Planning App: Ref A/36/18/OUT

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Jason Skilton
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RE: LAND OFF ARUNDEL ROAD, ANGMERING, BN16 4ET

I refer to the recent consultation response relating to the planning application for the Land off Arundel Road, Angmering, BN16 4ET.

It is acknowledged that further information is required for the following points with regards to the surface water drainage designs:

- Evidence of groundwater monitoring for the site;
- The use of surface water pumping station.

Infiltration testing was undertaken during October 2017 in accordance with BRE 365 (BRE, 2016). The trial pits were excavated to depths ranging from 1.80m to 2.50m below the existing ground levels. Trial pit logs show that no Groundwater seepage was encountered within these trial pits providing evidence that a high Groundwater table is unlikely to be a constraint during development. Following a telephone conversation with Laura Gibbons (Drainage & Coastal Engineer at Arun District Council) on 30th April 2018, it was agreed that Groundwater monitoring at the location of the proposed attenuation pond should be imposed as a condition on the planning going forward.

Current designs indicate that the use of a surface water pumping station is required on site as part of the surface water drainage strategy. The SuDS hierarchy was considered throughout the design process, with infiltration considered as the preferred method of surface water disposal from the site. As this was not feasible due to poor infiltration rates then discharge to a watercourse was considered, this is deemed to be achievable via a connection into the ditch to the west of the site. Discharging to the sewer system was discounted as this would require the use of surface water pumping for the whole site.

Due to the existing topography of the site, particularly in the western areas, it was calculated that significant ground raising works would be required to achieve a suitable gravitational fall to allow discharge to the western ditch via an attenuation basin. It was calculated that without the use of surface water pumping up to two metres of ground raisings would be required at the north western extent of the developable area, with further ground raisings required across the wider western area of the site.

To minimise the requirement for ground raising the use of a surface water pumping station has been proposed as the most appropriate solution for surface water drainage.



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We trust this information is sufficient for your immediate needs and provides the additional information required, however please do not hesitate to contact the undersigned if you require any further information.

Yours sincerely

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