

From: Laura Gibbons
Sent: 10 October 2018 08:20
To: Planning.Responses
Cc: Michael Eastham
Subject: FW: Planning Consultation on: A/40/18/OUT

Engineers Comments Regarding Surface Water Drainage

Please apply ENGD2B, ENGD3A, ENGD4A, ENGD5A, ENGD5B and ENGD6A .

The application proposes to use attenuation and to control discharge from the site to QBar. There is limited information regarding infiltration testing and groundwater monitoring to justify not using infiltration. Some infiltration tests were completed in September 2015 which offered very low infiltration rates, however these tests were conducted at significant depths and may have been influenced by groundwater/less permeable soil conditions. Infiltration tests should be completed at shallow depths following groundwater monitoring. The applicant is advised to discuss the extent of groundwater monitoring with the Council's Engineers. Supplementary guidance notes are also enclosed for information.

We require winter groundwater monitoring to be completed regardless of the viability of infiltration. It will demonstrate if infiltration is viable; and if infiltration is not viable monitoring is required to demonstrate the risk of flotation is adequately taken account of in attenuation design.

Please note that infiltration rates for soakage structures are to be based on percolation tests undertaken in the winter period and at the location and depth of the proposed structures. The percolation tests must be carried out in accordance with BRE 365, CIRIA R156 or a similar approved method and cater for the 1 in 10 year storm between the invert of the entry pipe to the soakaway, and the base of the structure. It must also have provision to ensure that there is capacity in the system to contain below ground level the 1 in 100 year event plus 40% on stored volumes, as an allowance for climate change. Adequate freeboard must be provided between the base of the soakaway structure and the highest recorded annual groundwater level identified in that location.

The design of the SuDS should incorporate sufficient treatment and we encourage the use of permeable paving systems particularly in parking areas where highest pollution concentrations can be expected. If infiltration is demonstrated to be unsuitable we would still look for the use of permeable paving systems to be used but as part of a lined system, if groundwater levels are high or unlined if not.

Any proposals to discharge water to ordinary watercourses will require land drainage ordinary watercourse consent, the applicant is advised to contact us to discuss this further if this route is being taken.

Any open watercourses/culverts on or immediately adjacent the site will require discussion/agreement on how they are accommodated within, or affected by the development. The present site also currently contributes significant flow to the existing watercourses due to uncontrolled discharges from hard paved areas. We will be seeking betterment as part of the suds design/considerations.

The Environment Agency, working with partnership authorities, are in the process of looking at flood alleviation schemes to address the significant flooding issues experienced in Angmering Village. They may be seeking financial

contributions towards potential schemes, from developers upstream and therefore it is recommended that the Environment Agency are consulted in this respect.

Regards,

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

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Arun is Working in Partnership with Chichester District Council
Visit Arun's web site at <http://www.arun.gov.uk/> and www.chichester.gov.uk



Save the environment - think before you print.

From: planning.responses@arun.gov.uk [mailto:planning.responses@arun.gov.uk]

Sent: 09 October 2018 11:49

To: Land Drainage

Subject: Planning Consultation on: A/40/18/OUT

To: Engineers (Drainage)

NOTIFICATION FROM ARUN DISTRICT COUNCIL

Town & Country Planning Act 1990 (as amended)

**Town & country Planning (Development Management Procedure) (England) Order 2015 -
Article 5**

Outline Consent

APPLICATION **A/40/18/OUT**

NO:

Registered: 29th March
2018

Site Address: Land North of Water Lane Angmering

Grid Reference: 507459 105141

Description of Works: Outline application with some matters reserved for the development of up to 525 residential dwellings (Class C3), 3 ha (gross) of employment land (Class B1), public open space, play areas, access, associated infrastructure and landscaping. Departure from the Development Plan.

The Council have received the above application. I shall be pleased to receive any observations you may wish to make.

[Click here to view the application details](#)

Should you have any comments to make, these should be sent by replying to this email by 10-MAY-18.

You can also monitor the progress of this application through the Council web site:

www.arun.gov.uk/planning

Please be aware that any comments you may make will be available on our website so please do not insert personal details or signatures on your reply.

In the absence of a reply within the period stated, I shall assume that you have no observations to make.

The application will be determined having regard to the development plan policies (if any are relevant) and other material considerations. The development plan can be accessed via the website as can the leaflet which deals with material planning considerations.

Should the application go to appeal the Planning Inspectorate will publish any comments made to the Council on their website:

www.planningportal.gov.uk/planning/appeals/ but they will protect personal details.

The officer dealing with this application is Michael Eastham who can be contacted on telephone number 01903 737772.

Regards
Planning Officer

consultee_email
