
Engineers comments in respect to surface water drainage;

The application is within the Lidsey Treatment Catchment, therefore surface water drainage design should be carefully considered.

I note that ground investigations were undertaken in mid-March 2020, which recorded groundwater levels at 1.5 metres below the surface. This does not represent what we expect the peak winter groundwater levels to be in that area and therefore further groundwater monitoring (and infiltration testing) will need to be carried out at an agreed time and locations during the next winter, in order to inform the drainage design. This is likely to be around late December/January time, but needs to be agreed nearer the time. Our knowledge of the ground conditions in that area, it backed up by the fact that peak groundwater levels in the adjacent development (Chantry Mead) were found to be very close to the surface, making infiltration into the ground not feasible. Essentially, the drainage design could be very challenging on this site but this is all dependent on the results of the further monitoring/testing. Whatever the outcome, a sustainable system must be designed/employed.

If you are minded to approve the application please apply the following conditions to ensure that the development is adequately drained and does not increase flood risk elsewhere.

PCENG D2

“Development shall not commence, other than works of site survey and investigation, until full details of the proposed surface water drainage scheme have been submitted to and approved in writing by the Local Planning Authority. The design should follow the hierarchy of preference for different types of surface water drainage disposal systems as set out in Approved Document H of the Building Regulations, and the recommendations of the SuDS Manual produced by CIRIA. Winter groundwater monitoring to establish highest annual ground water levels and winter Percolation testing to BRE 365, or similar approved, will be required to support the design of any Infiltration drainage. No building / No part of the extended building shall be occupied until the complete surface water drainage system serving the property has been implemented in accordance with the agreed details and the details so agreed shall be maintained in good working order in perpetuity.”

Reason: To ensure that the proposed development is satisfactorily drained in accordance with policies W SP1, W DM1, W DM2 and W DM3 of the Arun Local Plan. This is required to be a pre-commencement condition because it is necessary to implement the surface water drainage system prior to commencing any building works.

And the accompanying informative:

INFORM D

“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

BRE365, 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. Any SuDS or soakaway design must include adequate groundwater monitoring data to determine the highest winter groundwater table in support of the design. The applicant is advised to discuss the extent of groundwater monitoring with the Council's Engineers.

Supplementary guidance notes regarding surface water drainage are located here

<https://www.arun.gov.uk/surfacewater> on Arun District Council's website. A surface water drainage checklist is available on Arun District Council's website, this should be submitted with a Discharge of Conditions Application."

Regards

Paul Cann
Principal Drainage Engineer
Engineering Services



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To: **Engineers (Drainage)**

NOTIFICATION FROM ARUN DISTRICT COUNCIL

Town & Country Planning Act 1990 (as amended)

Town and Country Planning (Development Management Procedure) (England) Order 2015

Planning Permission

Application No:	BN/51/20/PL
Registered:	1st June 2020
Site Address:	Land at Chantry Mead & rear of 14-18 Downview Road Barnham PO22 0EG
Grid Reference:	495391 105303

Description of Works: 4 No dwellings including access, landscaping & associated works.

The Council have received the above application.

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

This application has been identified as CIL Liable. Therefore please be aware that, in accordance with Appendix 2 of the Arun CIL Charging Schedule, your consultation response should only include requests for Section 106 for onsite mitigation, Pagham Harbour Management Contributions (if applicable) or Affordable Housing. Off Site mitigation measures directly related to this development should be dealt with by condition if possible to ensure the scaling back of Section 106 if possible. CIL contributions will be used for off site infrastructure mitigation schemes. Therefore if this proposal triggers the need for off site mitigation, please ensure that you engage in the CIL Infrastructure List Consultation process upon receipt of a consultation letter.

Should you have any comments to make, these should be sent by replying to this email by 2nd July 2020 . You can also monitor the progress of this application through the Council web site:

www.arun.gov.uk/planning.

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

<https://www.arun.gov.uk/development-plan> as can the the leaflet how to respond to planning applications <https://www.arun.gov.uk/planning-application-comments> which deals with material planning considerations.

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.

Should the application go to appeal the Planning Inspectorate will publish any comments made to the Council on their website: <https://www.planningportal.co.uk/info/200207/appeals> but they will protect personal details.

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

Yours sincerely

Amy Myer

Planning Officer- Arun District Council



PLCONSULT (CDB) 2020