



from
**Southern
Water**

Planning and Development Services
Arun District Council
Arun Civic Centre
Mallravers Road
Littlehampton
West Sussex
BN17 5LF

Your ref
BN/155/20/EIS

Our ref
PLAN-036809

Date
11/01/2020



Dear Sir/Madam,

Proposal: Scoping opinion for up to 600 residential dwellings and care home.
Site: BN/155/20/EIS: - Land North of Barnham Road, Eastergate PO20 3RS.

Thank you for your letter dated 22/12/2020.

Further to your scoping document for the above site Southern Water have the following observations to make with respect to the proposed development:

- Due to the size of the development and to protect the premises from the impact of sewage flooding, an assessment is required to ascertain an appropriate point of connection to the foul sewerage network.
- Southern Water requires a formal application for a connection to the public foul sewer to be made by the applicant or developer.
- Our initial investigations indicate that there are no public surface water sewers in the vicinity of the development. Alternative means of draining surface water from this development are required. This should not involve disposal to a public foul sewer and should be in line with the Hierarchy of H3 of Building Regulations with preference for use of soakaways.
gov.uk/government/publications/drainage-and-waste-disposal-approved-document-h
- Due to surface water inundation issues in the Lidsey Catchment the applicant is advised to adopt, where appropriate, the measures set out in the table "Practical measures to reduce the potential impacts of development". The developer should look to protect the public sewerage system from inundation and infiltration, which contribute to flooding in unfavourable conditions.
- It is possible that a sewer now deemed to be public could be crossing the development site. Therefore, should any sewer be found during construction works, an investigation of the sewer will be required to ascertain its ownership before any further works commence on site.

Southern Water, Southern House, Yeoman Road, Worthing, West Sussex, BN13 3NX
southernwater.co.uk

Southern Water Services Ltd, Registered Office: Southern House, Yeoman Road, Worthing, West Sussex, BN13 3NX Registered in England No. 2366670

- Southern Water does not supply water to this area.

In case you require any further information, please do not hesitate to contact us via the address shown in the footer of this document.

Yours faithfully,



Joff Edevane
Growth Planning Lead
Business Channels

SOUTHERN WATER



The positions of pipes shown on this plan are believed to be correct, but Southern Water Services Ltd accept no responsibility in the event of inaccuracy. The actual positions should be determined on site.

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O.S. REF: SU9505SW

Scale: 1:2500

Screen Print

WARNING: BAC pipes are constructed of Bonded Asbestos Cement

WARNING: Unknown (UNK) materials may include Bonded Asbestos Cement

ARUN DISTRICT COUNCIL BN155/20/EIS



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Practical measures to reduce the potential adverse impacts of development

Reasons	Practical measures
Adequate and sustainable surface water drainage.	No surface water connections to the wastewater system. (See part H of the Building Regulations)
Guard against further groundwater infiltration into the foul drains or sewers serving the development.	The use of fusion jointed MDPE pipes can prevent groundwater infiltration and require a minimum of maintenance. The use of mass concrete surrounds to inspection chambers and manholes can prevent infiltration and require a minimum of maintenance
Guard against surface floodwaters entering the foul system serving the development.	Overland surface water flow routes should be provided for flows greater than those for which pipelines and culverts have been designed. Wherever possible, foul sewer routes, manhole covers, sink waste gullies, etc. should avoid overland surface water flow routes and any areas where surface water ponding may occur. Failing that they should be sealed against potential surface water inflows. Any sink waste gullies in areas of potential surface water inundation should be sealed or defended by raised brickwork or similar Bolt down sealed inspection chamber and manholes covers should be used in areas of potential surface water inundation. Raising the level of the development above the highways which serve it can protect buildings and their drainage systems from potential surface water inundation. However, care should be taken at local low spots in the highway where overland surface water flows may gather and overflow onto properties.

Protect the properties from foul flooding or unusable sanitation should the public sewerage system surcharge.	Part H of the Building Regulations contains suitable practical measures. However, the provision of an external gully is inappropriate where there is a risk of surface water flooding. In these circumstances, non-return valves are more appropriate. Dirgo or similar non-return air valves are now commonly fitted to soil vent pipes thereby allowing them to allow them to vent within the building. This practice can lead to problems with bubbling WCs, the blow out of U bend traps and odour within buildings when the sewerage system surcharges. The use of traditional external vent pipes without air valves can prevent this.
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