



from
**Southern
Water**

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

Your ref
WA/127/21/OUT

Our ref
DSA000007233

Date
07/02/2022



Dear Sir/Madam,

Proposal: Outline application with all matters reserved, other than means of access, for the construction of up to 155 No. dwellings (30% affordable homes) & amendment to boundary of garden land to serve adjoining property. This application affects the character & appearance of the Walberton Village Conservation Area, may affect the setting of listed buildings & is a Departure from the Development Plan.

Site: WA/127/21/OUT: - Land West of Tye Lane, Walberton, BN18 0PS.

Thank you for your letter dated 10/01/2022.

Please see the attached extract from Southern Water records showing the approximate position of our existing public foul sewers within the access of the development site. The exact position of the public foul sewers must be determined on site by the applicant in consultation with Southern Water.

Please note:

- The 225 mm and 150 mm public foul sewers requires a clearance of 3 metres on either side of the gravity sewers to protect it from construction works and to allow for future access for maintenance.
- No development or tree planting should be carried out within 3 metres of the external edge of the public gravity sewers without consent from Southern Water.
- No soakaway, swales, ponds, watercourses or any other surface water retaining or conveying features should be located within 5 metres of public sewers.
- All existing infrastructure should be protected during the course of construction works.

Please refer to: southernwater.co.uk/media/default/PDFs/stand-off-distances.pdf.

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

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The impact of any works within the highway/access road on public apparatus shall be assessed and approved, in consultation with Southern Water, under a NRSWA enquiry in order to protect public apparatus. Please send these enquiries to: [REDACTED]

We have restrictions on the proposed tree planting adjacent to Southern Water sewers, rising mains or water mains and any such proposed assets in the vicinity of existing planting. Reference should be made to Southern Water's publication "A Guide to Tree Planting near water Mains and Sewers" (southernwater.co.uk/media/1642/ds-tree-planting-guide.pdf) and the Sewerage Sector Guidance (water.org.uk/sewerage-sector-guidance-approved-documents/) with regards to any landscaping proposals and our restrictions and maintenance of tree planting adjacent to sewers, rising mains and water mains.

Furthermore, 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 has undertaken a desktop study of the impact that the additional foul sewerage flows from the proposed development will have on the existing public sewer network. This initial study indicates that these additional flows may lead to an increased risk of foul flooding from the sewer network. Any network reinforcement that is deemed necessary to mitigate this will be provided by Southern Water.

Southern Water and the Developer will need to work together in order to review if the delivery of our network reinforcement aligns with the proposed occupation of the development, as it will take time to design and deliver any such reinforcement.

It may be possible for some initial dwellings to connect, pending network reinforcement. Southern Water will review and advise on this following consideration of the development programme and the extent of network reinforcement required.

Southern Water will carry out detailed network modelling as part of this review which may require existing flows to be monitored. This will enable us to establish the extent of any works required.

Southern Water endeavor to provide reinforcement within 24 months of planning consent being granted (Full or Outline) however for large developments our assessment of the timescales needed will require an allowance for the following which may result in an extension of the 24-month period:

- Initial feasibility, detail modelling and preliminary estimates.
- Flow monitoring (If required)
- Detailed design, including land negotiations.
- Construction.

Southern Water hence requests the following condition to be applied: Occupation of the development is to be phased and implemented to align with the delivery by Southern Water of any sewerage network reinforcement required to ensure that adequate wastewater network capacity is available to adequately drain the development.

The planning application form makes reference to drainage using Sustainable Urban Drainage Systems (SuDS).

Under certain circumstances SuDS will be adopted by Southern Water should this be requested by the developer. Where SuDS form part of a continuous sewer system, and are not an isolated end of pipe SuDS component, adoption will be considered if such systems comply with the latest Sewers for Adoption (Appendix C) and CIRIA guidance available here:

water.org.uk/sewerage-sector-guidance-approved-documents/

ciria.org/Memberships/The_SuDS_Manual_C753_Chapters.aspx

Where SuDS rely upon facilities which are not adoptable by sewerage undertakers the applicant will need to ensure that arrangements exist for the long-term maintenance of the SuDS facilities. It is critical that the effectiveness of these systems is maintained in perpetuity. Good management will avoid flooding from the proposed surface water system, which may result in the inundation of the foul sewerage system.

Thus, where a SuDS scheme is to be implemented, the drainage details submitted to the Local Planning Authority should:

- Specify the responsibilities of each party for the implementation of the SuDS scheme.
- Specify a timetable for implementation.
- Provide a management and maintenance plan for the lifetime of the development.

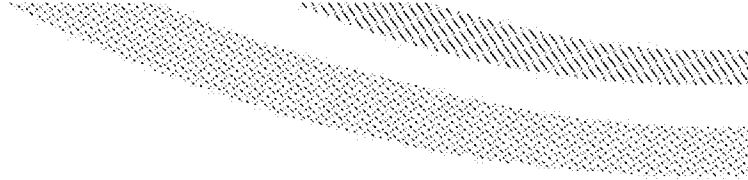
This should include the arrangements for adoption by any public authority or statutory undertaker and any other arrangements to secure the operation of the scheme throughout its lifetime.

The Council's technical staff and the relevant authority for land drainage consent should comment on the adequacy of the proposals to discharge surface water to the local watercourse.

We request that should this application receive planning approval, the following condition is attached to the consent: "Construction of the development shall not commence until details of the proposed means of foul and surface water sewerage disposal have been submitted to, and approved in writing by, the Local Planning Authority in consultation with Southern Water."

This initial assessment does not prejudice any future assessment or commit to any adoption agreements under Section 104 of the Water Industry Act 1991. Please note that non-compliance with Sewers for Adoption standards will preclude future adoption of the foul and surface water sewerage network on site. The design of drainage should ensure that no groundwater or land drainage is to enter public sewers.

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 unfavorable conditions.



For further advice, please contact Southern Water, Southern House, Yeoman Road, Worthing,
West Sussex, BN13 3NX [REDACTED]

Website: southernwater.co.uk or by email at: [REDACTED]

Your faithfully,

Growth Planning Team
Business Channels

southernwater.co.uk/developing-building/planning-your-development

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[illegible]

Requested By:



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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from
**Southern
Water**

Planning ref
WA/127/21/OUT

Our ref
DSA000007233

Date
7 February 2022



Dear Sir/Madam,

Southern Water – Your build rates and occupation information
Site Name: Land West of Tye Lane, Walberton, BN18 0PS.

We are contacting you to request information which is required by Southern Water in order to prepare for the connection of your development site (as listed above), to our public water main.

Action request:

Please provide the details of your anticipated occupation dates and build out rate for the site listed above. This information will support us in planning the required works across our region in readiness for your site to be occupied. If we do not receive this information about the site, we may not be able to progress with the work required to prepare for the connection of your site and your development program.

Build Rate & Occupation details

Please fill out the tables below in block capital letters and email this back to us as soon as possible. Please email the form to:

If the site is not proceeding, please email the address above with the site references listed above and a brief description of why it is not going ahead. If you have queries about the information required, please call Developer Services on

Your earliest reply would be much appreciated.

Growth Planning Team
Business Channels

southernwater.co.uk/developing-building/planning-your-development

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. 2389570

A. Contact Information in case of further queries:

Name of person completing form
Company
Phone number
Email address
Date form completed

B. Site references:

Proposal
Site Name (on letter)
Site Postcode/location
Planning Reference (on letter)
Planning Authority (on letter)
Our reference (on letter)

C. Site information:

Proposed start date	/ /
Proposed connection date	/ /
First occupation date	/ /
Forecast completion date	/ /
Proposed date of full occupancy	/ /
Proposed connecting manhole reference number	

Build out period (Per month for each year of development)												
Year	Month											
	1	2	3	4	5	6	7	8	9	10	11	12
20												
20												
20												
20												
20												

If the site had previous use, please describe the type of previous use: e.g. greenfield/brownfield, block of flats, warehouse etc.

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