

Arun District Council, Civic Centre, Maltrovers Rd, Littlehampton, West Sussex, BN17 5LF

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From: Laura Gibbons <Laura.Gibbons@arun.gov.uk>
Sent: 19 April 2022 14:25
To: Planning.Responses <Planning.Responses@arun.gov.uk>
Cc: Simon Davis <Simon.Davis@arun.gov.uk>
Subject: RE: Planning Re-Consultation on: AL/28/22/DOC

Engineers Comments Regarding Condition 10

Included below are our original comments from 22nd March, and in italics are latest thoughts on these.

1. Please provide a layout plan showing the locations of groundwater monitoring and infiltration testing. *Now provided.*
2. Please provide further details of infiltration testing, i.e. date of testing and depth of pits. *Summer infiltration rates from testing at depth do not preclude the use of infiltration. Winter groundwater monitoring results show groundwater at shallow depths, however no monitoring was completed near the centre of the site. Therefore, we cannot support the use of zero infiltration with the information which is currently available. Please complete shallow infiltration testing to demonstrate whether infiltration is viable. This is required to evidence compliance with LLFA policy for the management of surface water policy 1.*
3. Please provide greenfield runoff rate calculations for the proposed impermeable area which is positively drained. *Run off rates have been calculated based upon a total site area of 2.53Ha, the positively drained area is 1.1Ha greenfield runoff rate calculations should be based upon this area. It is clear that runoff restrictions should be circa half that currently proposed.*
4. Please provide catchment impermeable areas diagrams. *Provided.*

5. Please provide exceedance flow drawings. *Please detail how water will drain from the low points in the open space area.*
6. Please detail hydrobrake unit references on layout and details. *Provided, but will be impacted by comments 2 and 3 above.*
7. Water level in network 2 is above cover levels of adjacent permeable paving- it appears that exceedance will occur in the 1 in 100 year plus 40% cc rainfall event. Please provide evidence of what flood depths will be, and that these will not threaten dwellings. *Adjusted design, however points 2 and 3 will alter this.*
8. Please provide manholes on the points of connection into the main network from pipes serving 2 or more dwellings. *Okay.*
9. Please clearly label finish and formation level of all permeable paving areas. *Detailed.*
10. Please label cover levels of gullies. *Okay.*
11. Please detail proposed outfall inverts, along with inverts of culvert and watercourse at the proposed points of connection. *Noted, to be reviewed as part of consent application.*
12. Please provide flotation calculations for cellular storage and attenuation basin. *Calculations provided, however no groundwater data near basin. Assumed depth of groundwater requires discussion and agreement.*
13. Please provide data sheets to evidence flow control devices for S102 and S23 will achieve the criteria within the flow model. *Provided, however please see points 2 and 3 which will alter this.*
14. Please detail overflow level on S23 construction detail drawing. *Level of overflow is still not detailed.*
15. Please detail membrane around attenuation tank on construction detail drawing. Please make detail site specific. *Okay.*
16. Please provide construction detail drawings of permeable paving. *Okay.*
17. Please provide two perpendicular cross sections of the basin, please detail liner, topsoil depths, etc. on construction detail drawing. *See comment 12.*
18. For the bagwork headwalls to the basin- please detail bag size, how full bags are to be with ST4 concrete, how bags are to be compacted, what bond pattern is to be followed, spacing of pins, minimum width of headwalls, etc. *Okay.*

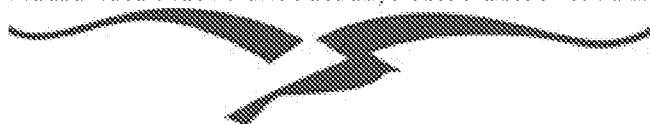
Kind regards,

Laura Gibbons

Drainage Engineer

Engineering Services

Please note that I work Tuesdays 08:00-16:00 for Arun only.



T: 01903 221374

E: laura.gibbons@arun.gov.uk [REDACTED]

Arun District Council, Civic Centre, Maltravers Rd, Littlehampton, West Sussex, BN17 5LF

From: Planning.Responses <Planning.Responses@arun.gov.uk>

Sent: 13 April 2022 22:04

To: Land Drainage <Land.Drainage@arun.gov.uk>

Subject: Planning Re-Consultation on: AL/28/22/DOC

To: **Engineers (Drainage)**

NOTIFICATION FROM ARUN DISTRICT COUNCIL

TOWN AND COUNTRY PLANNING ACT 1990

Application No: AL/28/22/DOC

Registered: 3rd March 2022

Site Address: Land At Wings Nursery Lidsey Road Woodgate PO20 3SU

Grid Reference: 493715 104134

Category: Discharge of Condi

Description of Works: Approval of details reserved by condition imposed under AL/20/21/PL relating to condition 10-surface water drainage. Decision due 28.04.22

I am able to inform you that I have received an amendment to the above application dated 12th April 2022 relating to: Amendments in response to drainage objections

[Click here to view the plans and documents](#)

If you should wish to make further representations as a result of this amendment you should click the link below and then click on 'Enter comment'.

[Click here to make further comments](#)

Please make any further comment by **28th April 2022**.

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.

Yours sincerely

Mr S Davis

Planning Case Officer-Arun District Council

Telephone: 01903 737874

Email: Simon.Davis@arun.gov.uk

FLRECON_DOC (ODD) 2020