

**From:** [Michael Smith](#)  
**To:** [Julia Puton](#); [Nigel Hickman](#)  
**Cc:** [FRMConsultations](#); [c.howe@welhat.gov.uk](mailto:c.howe@welhat.gov.uk); [Adam Wadsworth](#)  
**Subject:** RE: Former Shredded wheat site - 6/2019/1788/COND  
**Date:** 18 December 2019 09:37:00

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Good Morning Julia,

I have tried to call this morning but have been told that you are out of office.

We are in need of a response to the updated drawings issued by Nigel on Monday. Have these been formally issued to you by Clare yet?

I have reviewed the information submitted on the portal for the following;

**6/2018/0171/MAJ & /2019/1788/COND**

It seems that no substantial drainage information was submitted for 6/2018/0171/MAJ and the whole of drainage was subsequently conditioned for discharge under 6/2019/1788/COND – Approval of Details Reserved by Condition. Condition 5 and 6 of the decision notice do not make reference to any submitted information and in any case the information submitted as part of the MAJ application states a 20l/s discharge rate from sub-catchment 1 alone.

Therefore, I believe the conditions have been met. Please see the responses to each of the conditions below

**CONDITION 5**

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1. *Surface water discharge rates and connection points into the public surface water sewer for each future sub-catchment included within the entire development site.*  
*Full site layout and discharge rates shown in 066571-CUR-00-00-DR-C-90001-P05 and confirmed by “Shredded Wheat MicroDrainage – Outfall SW38, 08 and 23” – Relating to all three catchments*
2. *Confirmation of the capacity study results and agreement for the proposed discharge rates and connection points from each future sub-catchment for surface water sewer network undertaken in line with Thames Water recommendations.*  
*Thames Water have confirmed they do not need a capacity study – This is confirmed by the pre-development enquiry response.*
3. *Limiting the surface water run-off generated by the critical storm events so that it will not exceed surface water Greenfield run-off rates (or as close as possible rates) for the relevant rainfall events for the 1 in 1 year event, the 1 in 30 year event and the 1 in 100 year event including plus 40% of climate change allowance. If Greenfield run-off rates cannot be achieved, strong technical justification should be provided. As a minimum 50% betterment in run-off rates for each sub-catchment should be provided following the relevant rainfall events including the 1 in 1 year event, the 1 in 30 year event and the 1 in 100 year event including plus 40% of climate change allowance. No increase of the risk of flooding off-site should be identified.*  
*The total site discharge has been*  
*This approach would allow a discharge rate for the 1 in 100 year event of 45.6l/s, 1 in 30 of 32.4l/s and 1 in 1 of 12.4l/s. The proposed strategy offers a significant betterment (more than 50%) when compared with the 1 in 100 year event. Is this not a better approach? Thames Water also stated that they wanted to see a greenfield runoff rate of 5l/s/ha, which has been used.*

*Therefore this condition has been met.*

4. Confirmation of attenuation volumes required for each phase identified within the development proposal. Final results should be appropriately split between future sub-catchments identified within the drainage strategy.

*Full site layout and discharge rates shown in 066571-CUR-00-00-DR-C-90001-P05 and confirmed by "Shredded Wheat MicroDrainage – Outfall SW38, 08 and 23" – Relating to all three catchments*

## **CONDITION 6**

1. Providing storage to ensure no increase in surface water run-off volumes for all rainfall events up to and including the 1 in 100 year including plus 40% for climate change event and details as how this is to be achieved.

*Full site layout and discharge rates shown in 066571-CUR-00-00-DR-C-90001-P05 and confirmed by "Shredded Wheat MicroDrainage – Outfall SW38, 08 and 23" – Relating to all three catchments. The previous site was positively drained and unrestricted. The sites impermeable area has also been reduced.*

2. Detailed calculations to demonstrate how the system operates during up to and including the 1 in 100 year critical duration storm event including drain down times for all storage features included within the drainage proposal.

*"Shredded Wheat MicroDrainage – Outfall SW38, 08 and 23" – Relating to all three catchments has been submitted. This shows how each catchment system operated and does not flood during the 1 in 100 year +40% event. The system is positively drained to the TW sewer, therefore drain down times are directly correlated to the approved discharge rate. Infiltration is not used.*

3. Demonstrate an appropriate SuDS management and treatment train and inclusion of above ground features reducing the requirement for any underground storage.

*Swales and ponds and permeable paving with sub-base storage has been provided in the available areas to reduce the need for attenuation tanks however tanks are still required to pick up the attenuation not contained in the afore mentioned methods.*

*There are no more available areas on the site suitable for swales and ponds taking into account services cable routes etc. Bypass separators have been included at the outfall of every catchment to ensure any contaminants from the roads are captured before discharge to the public sewer. This offers the required protection as stated in gov.uk's "Pollution Prevention for Businesses". This is seen as a good approach and consistent with the legal guidance online*

4. Full detailed engineering drawings including cross and long sections, location, size, volume, depth and any inlet and outlet features. This should be supported by a clearly labelled drainage layout plan showing pipe networks. The plan should show any pipe 'node numbers' that have been referred to in network calculations and it should also show invert and cover levels of manholes. Total storage volumes provided within each future sub-catchment should be identified.

*Full site layout and discharge rates shown in 066571-CUR-00-00-DR-C-90001-*

*P05 and confirmed by "Shredded Wheat MicroDrainage – Outfall SW38, 08 and 23" – Relating to all three catchments*

5. *Where an outfall discharge control device is to be used such as a hydrobrake or orifice, this should be shown on the plan with the rate of discharge stated.*

*Full site layout and discharge rates shown in 066571-CUR-00-00-DR-C-90001-P05 and confirmed by "Shredded Wheat MicroDrainage – Outfall SW38, 08 and 23" – Relating to all three catchments*

6. *Silt traps for protection for any residual tanked elements. Catchpits used at inlet and outlet of all attenuation features. Permeable pavements and other SuDS used as collection to restrict silt entering the system*

7. *Details regarding any areas of informal flooding (events those exceeding 1 in 30 year rainfall event), this should be shown on a plan with estimated extents and depths.*

*An exceedance route drawing has been produced. See drawing 066571-CUR-00-00-DR-C-98010*

8. *Full details of any required mitigation/ management measures of any identified source of flooding.*

*No flooding for any events up to the 1 in 100 year +40% event. Site topography not dramatically altered.*

9. *Details of final exceedance routes, including those for an event which exceeds to 1:100 rainfall event including climate change event.*

*An exceedance route drawing has been produced. See drawing 066571-CUR-00-00-DR-C-98010*

*Please can you confirm what more is required to discharge this condition*

**Michael Smith** Senior Infrastructure Engineer

**Curtins**

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**From:** Julia Puton <Julia.Puton@hertfordshire.gov.uk>

**Sent:** 17 December 2019 19:51

**To:** Nigel Hickman <Nigel.Hickman@curtins.com>

**Cc:** Michael Smith <Michael.Smith@curtins.com>; FRMConsultations <FRMConsultations@hertfordshire.gov.uk>

**Subject:** Former Shredded wheat site - 6/2019/1788/COND

Dear Nigel,

Following our phone conversation today, I have discussed the case with my manager. I have been instructed that unfortunately we cannot provide you any plans. We would advise that you should contact the Local Planning Authority in this matter.

Please note I am on leave from Wednesday's afternoon.

Kind regards,

Julia Puton

**Julia PUTON**  
**Sustainable Drainage System Officer**  
**Environmental Resource Planning**

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