

From: Hannah Graham
Sent: 19 February 2018 13:57
To: Ballam, Rachel
Subject: Mill Rythe APP/16/01237

Rachel,

I responded to comments from the Flood Water Management Team regarding the application at Mill Rythe APP/16/01237. They have informed me that I need to send the comments to you first for them to be able to provide comments. My response to them is below. I would be grateful if we could receive feedback as soon as possible.

Dear Sir/Madam,

I have been issued with a response from yourself with the reference SWM/2017/0836 also, APP/16/01237 regarding the surface water drainage for Mill Rythe Holiday Village.

I have copied your points below and outlined my response in [blue](#).

Background information on the proposed design. Including proposal; site; plans of surface water drainage and any SuDS featured in the scheme

The site is the re-development of the existing site. The re-development results in a decrease in impermeable area on the site. The surface water is proposed to be collected by filter drains and drained to the nearby coastal waterbody. This was deemed appropriate for a previous planning condition for the site so is anticipated to be appropriate for this application. Furthermore attenuated discharge is not required to coastal waters as there are no third parties to be affected. The ground is considered to offer limited infiltration as present and therefore this surface water drainage scheme has been outlined. The plan for this was included in the information to discharge the condition. Can you confirm that this is acceptable?

If not using infiltration for drainage - Existing and proposed run-off rate calculations completed according to a suitable method such as IH124 or FEH. Information is available from UK Sustainable Drainage: Guidance and Tools. Calculations must show that the proposed run off rates do not exceed the existing run-off rates. This must be shown for a one in one year event plus climate change and a one in one hundred year event plus climate change.

If not using infiltration for drainage - Existing and proposed run-off volume calculations completed according to a suitable method such as IH124 or FEH. Calculations must show that, where reasonably practical, runoff volume should not exceed the greenfield runoff volume for the same event. This must be shown for a 1 in 100 year, 6 hour rainfall event

At present most of the site is hard-paved as the proposal is a re-development, the re-development results in less impermeable area and therefore there would be a decrease in the runoff from the site at present. The proposed filter drains will allow the natural attenuation of the runoff before discharge into the coastal waterbody.

Evidence that enough storage/attenuation has been provided without increasing the runoff rate or volume. This must be shown for a 1 in 100 year plus climate change event

It is proposed to install approximately 2,500m of filter drains, this would result in a storage capacity of 625m³. The existing surface water drainage arrangements on the site are currently unlikely to provide any storage and therefore this proposal will provide betterment in terms of the existing arrangements.

Exceedance flows are considered in the event of the pipe being non-operational. Evidence that Exceedance flows and runoff in excess of design criteria have been considered - calculations and

plans should be provided to show where above ground flooding might occur and where this would pool and flow.

Exceedance flow routes were indicated on the drainage layout drawing (3001 and 3002). The eastern section of the site that is shown as recreation space and lake is set lower than most of the site, this is where any anticipated exceedance runoff would flow. This is anticipated to have minimal impact on the site where the lodges will be located.

Overall the proposal provides betterment in terms of formalising the existing drainage system on the site. The proposal results in a decrease in impermeable area on the site. The risk to third parties is low as the site is adjacent to coastal waters.

I hope the above satisfies your concerns. Please let me know if you need any further information.

Kind regards,

Hannah Graham

Team Leader – Flood Water Management

Water | Wastewater | Flood Risk | Civil | Structural | M&E | Highways | CDM | H&S

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