

For the attention of: Elen Squires, Natural England

Dear Elen,

**Planning consultation: Residential development of up to 215 dwellings with associated car parking/garages, landscaping, public open space including both equipped and non-equipped areas of play, SUDS and drainage, with details of a new vehicular access onto Shaw Lane (Outline with all matters reserved apart from means of access)
Location: Land north of Shaw Lane, Carlton, Barnsley, S71 3HH**

RE: Water Quality Concerns

I am writing to address your concerns over the water quality of the surface water runoff which will run through the Dearne Valley Wetlands SSSI. Your concerns are quoted below.

“Natural England notes that the application proposes to discharge surface water to a sustainable drainage system. However, the details of the proposed drainage strategy are currently unclear, including whether surface water is likely to discharge to a watercourse which will run through Dearne Valley Wetlands SSSI. We advise that this information is provided and further assessed in relation to potential impacts to the Dearne Valley SSSI.

Additionally, we advise that further assessment of potential construction phase water quality impacts should be provided.”

For the first paragraph I would refer you to the Flood Risk and Drainage Assessment (REF: B029129) (Planning Document Ref: CD 6.10 Flood Risk Assessment B029129 Rev C) by Tetrattech. In Section 5.4 Water Quality is discussed with specific reference to Tables 26.2 and 26.3 of The SuDS Manual CIRIA C753 which detail how to assess the pollution hazard presented by a development and the appropriate methods of mitigating this risk using various drainage features.

In this instance the pollution risk is categorised as “Low” with permeable paving and/or detention basins providing adequate mitigation to ensure an acceptable water quality in the runoff from the developed site.

I would also refer to Adepts Drainage Strategy document which has been developed for the Outline submission which details a number of detention basins within the development site which would ensure these requirements are met.

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It should be noted that this drainage strategy is for Outline planning and the detailed design will produce the final strategy, however the drainage design will be Conditioned which will provide another opportunity for comment at this stage.

For the second paragraph relating to construction phase runoff, there is another Condition for a Construction and Environmental Management Plan specifically in respect of biodiversity risk which requires a detailed scheme prior to any commencement. This Condition should provide comfort that surface water runoff will be properly managed during the construction phase following an agreed plan which can be commented on following submission to discharge the Condition.

For ease I've appended both referred documents to this covering letter.

Please do not hesitate to contact us if you have any queries.

Yours sincerely,

Andy Laird MEng CEng MICE

Principal Engineer

For and on behalf of Adept Consulting Engineers Ltd