

From: publicaccess@lichfielddc.gov.uk
Sent: 20 October 2020 19:39
To: jwalton467@btinternet.com
Subject: Comments for Planning Application 20/00359/FULM

Mr John Edward Walton,

You have been sent this email because you or somebody else has submitted a comment on a Planning Application to your local authority using your email address. A summary of your comments is provided below.

Comments were submitted at 7:39 PM on 20 Oct 2020 from Mr John Edward Walton.

Application Summary

Address: Land North Of Dark Lane Alrewas Burton Upon Trent
Staffordshire

Proposal: Variation of conditions 2 (Approved Plans), 6
(Drainage) and 13 (Landscaping) of permission
18/01491/FULM relating to plot substitution of 52 of
the approved 121 dwellings, updated landscaping and
drainage schemes

Case Officer: Vanessa Morgan
[Click for further information](#)

Customer Details

Name: Mr John Edward Walton
Email: jwalton467@btinternet.com
Address: 56 Park Road, Alrewas, Burton Upon Trent,
Staffordshire DE13 7AJ

Comments Details

Commenter Type: Member of public
Stance: Customer objects to the Planning Application
Reasons for comment:
Comments:

The Alrewas Residents' Group (ARG) strongly Objects to the proposal submitted on 13 October 2020 by Crest Nicholson - "A brief explanation by design consultants Simpson engineering" and the associated "Network analysis - drainage details".

The grounds for this Objection are set out below, and are primarily concerned with the lack of detail regarding the interaction between fluvial, pluvial and groundwater events and the impact of this on the existing properties to the south of the development.

The information used below is derived from the following Approved Drawings:
P18-336:01 to 07 T6

P18-336:12 to 17 T2
and the Unapproved Drawing:
P18-336:SK40

As outlined in other Objections to this Planning Application, the ARG has serious concerns about the effect of the groundwater on the functionality of the SWS system. With the site having underlying strata of sand and gravel, this aquifer will allow the movement of groundwater. The site works by the developer and associated works by Severn Trent in the Pumping Station have shown that groundwater under the site is at or slightly above River Trent level and during River Trent flooding events, the groundwater is at River Trent level.

Atkins stated that the River Trent 1 in 100 year flood event will cause the flood level to be 53.4m AOD. Allowing for 20% Climate Change effect, this will rise to 53.71m AOD.

The details below show the impact of the ingress of groundwater on the SWS system, effectively at River Trent flooding of well below the 1 in 100 year event, the SWS system is inundated with groundwater.

This gives serious concern regarding the effects of groundwater, and this is of extreme concern when a 1 in 100 year (plus 30% for climate change) rainfall event simultaneously occurs. It can also be seen that when River Trent flood levels of well below the 1 in 100 year event occur, there is little or no capacity in the SWS system.

There is no explanation as to where the rainfall from this extreme (or approaching extreme) event will be accommodated and which routes it will take. The ARG's concern is that it will flow towards the south and affect existing properties in the Village.

:The details below show increasing levels of River Trent Flood Water Level / Groundwater Level, Locations and Comment on Groundwater infiltration into the SWS System as the River Trent Flood Level / Groundwater Level rises:

51.160m AOD

Location: Outfall at River Trent - Apron Level

Comment: To be noted that this is 120mm below the recorded normal summer river level.

51.280m AOD

Location: River Trent Summer Level

Comment: As measured and recorded by Crest Nicholson on 15 June 2020.

(as Drawing P18-336:SK40 forming part of this Planning Application)

51.470m AOD

Location: Main Outfall - Apron Level

Comment: The Apron is only 190mms above the recorded summer River Trent level. The River Trent Flood Zone 2 will be extended by the Drainage Ditch to the Main

Outfall. At this level, the River Trent flood water will begin to prevent the Flap Valve (non-return valve) from opening.

51.920m AOD

Location: Main Outfall - Soffit Level

Comment: At this level, the River Trent flood water will prevent the Flap Valve from opening unless there is a sufficient hydraulic head upstream of the Flap Valve.

52.060m AOD

Location: Infiltration Blanket - Base Level
(as controlled by Manhole SWS47)

Comment: Due to the underlying strata being an aquifer, the River Trent flood level will be the same as the groundwater level. When the groundwater reaches this level, it will begin to enter the SWS system at the eastern end via the perforated pipe under the Infiltration Blanket and start to fill the whole SWS system to this level over a short period.

52.410m AOD

Location: Infiltration Basin - Base Level

Comment: When the groundwater reaches this level, it will also enter the SWS system via the Infiltration Basin at the western end and fill the whole SWS system to this level.

52.500m AOD

Comment: Storms Ciara/Dennis (February 2020)

NB Storms Ciara/Dennis caused the River Trent to rise to this level, which is considerably less severe than the 1 in 100 year event. Note that this actually achieved level is above both of the SWS flooding thresholds of 52.060 (E) and 52.410 (W).

52.738m AOD

Location: SWS M/H 44 - Soffit Level
(Closest to Micklehome Drive Tie-in)

Comment: When the groundwater reaches this level, the eastern part of the SWS system will be completely full of groundwater.

53.010m AOD

Location: SWS M/H 18 - Soffit Level
(Closest to Dark Lane Tie-in)

Comment: When the groundwater reaches this level, the southern part of the SWS system will be completely full of groundwater.

53.085m AOD

Location: Infiltration Basin - Soffit Level of incoming pipe

Comment: When the groundwater reaches this level, the western part of the SWS system will be completely full of groundwater.

53.150m AOD

Location: Infiltration Blanket - Top Level

Comment: When the groundwater reaches this level, the Infiltration Blanket will offer no storage capacity to the SWS system.

53.196m AOD

Location: Road Surface Level - Gullies adjacent at Micklehome Drive Tie-in

Comment: When the groundwater reaches this level, the entire SWS system will already be full of groundwater. Any increase in groundwater level or additional rainwater will cause the gullies at this location to overflow into Micklehome Drive.

53.196m AOD

Location: Infiltration Basin - Maximum Surface Level

Comment: This is the maximum level that the groundwater can rise to in the Infiltration Basin, as any increase will cause the gullies to overflow at the tie-in to Micklehome Drive.

53.400m AOD

Comment: River Trent 1 in 100 year Flood Event Level
For this flood level, Micklehome Drive is within the River Trent Flood Zone 2, however protection offered by topography to the north will be negated by groundwater travelling through the SWS system and overflowing the gullies at the tie-in to Micklehome Drive.

53.710m AOD

Comment: River Trent 1 in 100 year Flood Event Level PLUS 20% for Climate Change
As above, but more severe.

Referring specifically to the MicroDrainage calculations, it is noted that all the Water Levels in the Manholes on page 11 are all above the Road Surface Level - Gullies adjacent at Micklehome Drive Tie-in.

There is no mention of the adoption / maintenance arrangements to enable the thirteen Storage Structures (on pages 8 to 10 of the MicroDrainage calculations) to function as designed.



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