

**Consultation Response from KC,  
Lead Local Flood Authority**

**2024/91476 Clough Farm, Long Lane, Earlsheaton, Dewsbury, WF12 8LQ**

**Erection of 20 dwellings and 6 quarter houses**

**Date Responded: 08/07/2024**

**Responding Officer: Martin Stephenson**

**Responding Ref: 1**

**Documents reviewed by the LLFA:**

eleven52architects:

- Drawing Ref: 0389\_LON\_103, Proposed Site Plan, Rev C dated 28/02/2024.

Dart Engineers Ltd:

- Document Ref: 23590-FRA-001, Flood Risk Assessment, Rev A dated 30<sup>th</sup> January 2024.
- Document Ref: 23590-Long Lane Flow, Causeway Hydraulic Calculations, dated 15/02/24.

**Drainage Summary:**

The calculations indicate that the design flow of the lowest hydrobrake is 3.1 l/s and its diameter is 72mm. The minimum allowable hydrobrake diameter that KC will accept is 75mm. Therefore, for the same design head of 2.0m, the allowable discharge can increase to approx. 3.4 l/s.

The calculations also indicate a 4.6m<sup>3</sup> flood from SW6 during the critical 1 in 100 year event. This flood volume should be minimised as much as possible.

The LLFA confirm that the surface water discharge point should be to Chickenley Beck.

**Kirklees Flood Management & Drainage as Lead Local Flood Authority SUPPORTS this application SUBJECT to the comments above and the recommended conditions set out below.**

**Suggested Drainage Conditions:**

**DR01 Drainage Details**

Development shall not commence until a detailed design scheme detailing foul, surface water and land drainage, including agreed discharge rates with the LLFA indirectly or directly to watercourse, attenuation for the critical 1 in 100 + climate change rainfall event, attenuation construction details /design, plans and longitudinal sections, hydraulic calculations and phasing of drainage provision has been submitted to and approved in writing by the Local Planning Authority. The scheme shall include a risk assessment and method statement, in accordance with CDM Regulations 2015, for access to and into the attenuation structure, and the scheme shall include a maintenance and management plan for surface water infrastructure. No part of the development shall be occupied until such approved drainage scheme has been provided on the site to serve the development or each agreed phasing of the development and retained thereafter.

**DR07 Overland Flow Routing**

The development shall not commence until an assessment of the effects of 1 in 100 year storm events, with an additional allowance for climate change, blockage scenarios and exceedance events on drainage infrastructure and surface water run-off pre and post development between the development and the surrounding area (both upstream and downstream of the development), has been submitted to and approved in writing by the Local Planning Authority. No part of the development shall be brought into use (dwellings shall not be occupied) until the works comprising the approved scheme have been completed and such approved scheme shall be retained thereafter.

**DR10 Construction Phase Surface Water Flood Risk and Pollution prevention plan.**

Development shall not commence until a scheme, detailing temporary surface water drainage for the construction phase (after soil and vegetation/site strip) has been submitted to and approved in writing by the Local Planning Authority. The scheme shall detail:

- phasing of the development and phasing of temporary drainage provision.
- include methods of preventing silt, debris and contaminants entering existing drainage systems and watercourses and how flooding of adjacent land is prevented.
- the strategy shall include a plan showing the location of the attenuation storage and supporting calculations, which shall be based on the critical 1 in 5-year storm. It should be assumed that once the site has been stripped that the percentage run-off will be 100 %. The maximum allowable off-site discharge rate shall not exceed 2.5 litres per second per ha, unless otherwise agreed with the LLFA.

The temporary works shall be implemented in accordance with the approved scheme and phasing. No phase of the development shall be commenced until the temporary works approved for that phase have been completed. The approved temporary drainage scheme shall be retained until the approved permanent surface water drainage system is in place and functioning in accordance with written notification to the Local Planning Authority.