26 Fenlake Business Centre,
Fengate, Peterborough, PE1 5BQ

5th June 2025
Our ref: 22098

Lucy Pateman
Development Services
Huntingdonshire District Council
St Mary's Street
PE29 3TN

Dear Sirs

Re: 23/80321/COND – Discharge of Conditions 3 (External Materials), 5 (Drainage), 6 (Construction Phase), 7 (Drainage), 8 (Fire Hydrant), 9 (Biodiversity), 11 (Lighting), 13 (External Storage) and 14 (Bin Store) for 22/01676/FUL.

With regards to the comments raised by the LLFA in their letter dated 20th May 2025, we would respond as follows:

Comment 1 – Hydraulic Calculations

The design has been revised and the Hydraulic Calculations re-run to achieve >99% Mass Balance for all storm events being modelled.

The system is designed to discharge at 3.6-l/s (equal to Qbar) for all storm events.

The maximum volume stored is 790m^3, which at the proposed discharge flow rate will take just over 30-hours to achieve half drain down. However, we would point out that the system has a total capacity of 969m3, and that after 24-hours the system will discharge 311m^3, leaving 658m3 of spare capacity, which is more than a 1;100 year storm event. Hence the system is capable of dealing with successive storm events of 1 in 100 + 40% followed by 1:100-year events.

Discrepancies in respect to the lagoon size and volume have been resolved across the revised set of drawings provided.

Comment 2 – Insufficient water quality treatment

We do not agree with the comment provided in respect to treatment quality. All hardstanding surfaces are drained through permeable surfaces, which include filtration layers and therefore provide mitigation indices suitable for the levels of pollution expected. The assessment of Pollution Indices verses the various Mitigation Indices is shown on drawing 100.

Comment 3 – Lagoon Freeboard

Through the re-design process the top water level in the most extreme storm event has been calculated, being 8.284m. We have raised the banks of the lagoon to 8.600m to achieve the required freeboard.

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I trust you will agree that the design robustly answers the LLFA concerns and will now make recommendation to approve the design.

Regards

[redacted]
Director, For and on behalf of Parsons Consulting Engineers Ltd

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