

Richard Gill

From: SMITH Matthew
Sent: 23 December 2024 09:32
To: Hallworth, Thomas
Cc: Matthew OHara
Subject: Project Red - EIW Planning Condition No5
Attachments: Appendix L - LLFA Correspondence.pdf; RED-AJP-02-00-DR-C-000901-C14-PROPOSED DRAINAGE LAYOUT.pdf; RED-AJP-02-00-DR-C-001062-C03-TYPICAL ATTENUATION TANK DETAIL.pdf; RED-AJP-02-00-DR-C-001101-C09-MANHOLE SCHEDULE.pdf; RED-AJP-02-00-DR-C-002000-C01-EXCEEDANCE FLOW PATHS.pdf; RED-AJP-02-00-RP-C-3000-P01 - DRAINAGE MAINTENANCE STRATEGY REPORT.pdf; SW Network Results.pdf; 220-096 - RED - SW Rationale.pdf; 220-096 - RED Electrical Infrastructure - Existing Brownfield Runoff.pdf; Project RED Phase 2 Ground Investigation Report .pdf

Morning Tom,

Please see attached and below associated response to condition No.5

responses to the planning conditions in **red** and the attached supporting documents

- Results of ground investigation carried out under Building Research Establishment Digest 365. Site investigations should be undertaken in locations and at proposed depths of the proposed infiltration devices. Proposal of the attenuation that is achieving half emptying time within 24 hours. If no ground investigations are possible or infiltration is not feasible on site, evidence of alternative surface water disposal routes is required.

See link below phase 2 ground report showing that the site is not suitable for infiltration. Also see page 9 from our FRA showing our rationale for surface water disposal.

- Infiltration would need evidence of agreement in principle from the EA as the site crosses into EA source protection zone (SPZ)

Not required as there is no infiltration from the development.

- Surface water drainage layout including all components, levels, connectivity and proposed overland flow routes for extreme events.

See attached outline drainage strategy, manhole schedule and exceedance flow paths.

- Where surface water is connected to the public sewer, agreement in principle from United Utilities is required that there is adequate spare capacity in the existing 135426/FO/2022 system taking future development requirements into account. An email of acceptance of proposed flows and/or new connection will suffice.

Future developments on site have already been accounted for as the post development area is 100%. Also see attached LLFA correspondence confirming they are happy with a 50% betterment on the existing brownfield flow rates for the main RED scheme. As the EIW scheme was 100% impermeable, a 50% betterment on existing rates would have also satisfied the LLFAs conditions.

- Evidence that the drainage system has been designed (unless an area is designated to hold and/or convey water as part of the design) so that flooding does not occur during a 1 in 100-year rainfall event with allowance for 45% climate change in any part of a building;

See attached surface water calculations showing no flooding during peak conditions.

- Details of surface water attenuation that offers a reduction in surface water runoff rate in line with the Manchester Trafford and Salford Strategic Flood Risk Assessment.

Provide at least a 50% reduction in runoff rate compared to the existing rates, as the site is located within Conurbation Core Critical Drainage Area.

See attached surface water calculations, existing brownfield calcs and attenuation tank details. Comparing the existing rates vs the proposed rates you can see a 50% betterment.

- Hydraulic calculations to support the drainage proposal.

See attached surface water calculations.

- Details of how the scheme shall be maintained and managed after completion.

See attached maintenance report.

Thanks,

Matthew Smith

Design Manager

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