JRC

CONSULTING

Mr J Cowley
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17th October 2023

Dear John

SAMLESBURY QUARRY, PRESTON – ACCESS ROAD DRAINAGE STRATEGY STATEMENT

Further to our appointment to provide a high level drainage strategy to accommodate the access road proposals at the above site, please consider the following statement with respect to the design ethos.

The sustainable drainage proposals indicated on JRC drawings 0503-0505 present the key principles of the drainage strategy for the access road. The access road run off would be accommodated by hit and miss kerbing, permitting run off to enter a series of swales before discharging to an open attenuation facility prior to discharging at a controlled rate to the numerous watercourses throughout the catchment.

Simulated hydraulic calculations have been undertaken in order to inform the greenfield run off rates and the attenuation volumes via simulated storm events up to and including the 1 in 100 year critical storm with 50% for climate change, in accordance with the latest climate change allowances.

It is anticipated that once the key principles are defined, further detail of the basins in conjunction with intrusive site investigation can be furthered and where possible present infiltration based facilities in conjunction with the water quality advantages of the proposed open facilities.

To confirm the greenfield run off rates have been calculated based upon the impermeable areas within each catchment in accordance with IoH Report 124. The

simulation has then utilised the FEH rainfall data for the areas; this presents a conservative approach to the likely attenuation volumes.

We hope the above and supporting calculations are clear but please do contact us should you require any further information.

Yours sincerely

John Curtis Bsc IEng MICE
Director
On behalf of JRC Consulting Engineers Ltd

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