

Wiltshire Council Planning Consultation Response

23rd April 2025

Wiltshire Council Drainage Engineer
Technical Services Drainage Engineer
Wiltshire Council

Application No: PL/2023/09142

PLANNING APPLICATION FOR THE DISCHARGE OF CONDITIONS RELATED TO OUTLINE APPLICATION (WITH ACCESS TO BE DETERMINED) FOR DEVELOPMENT OF A NEW MOTORWAY REST AREA (MRA) TO PROVIDE UP TO 241 CAR PARKING SPACES; UP TO 63 HEAVY GOODS VEHICLE (HGV) PARKING SPACES; COACH AND CARAVAN PARKING; AMENITY BUILDING; FUEL FILLING STATION; NEW ROUNDABOUT ACCESS FROM B4005; AND ASSOCIATED LANDSCAPING, INFRASTRUCTURE AND ANCILLARY WORKS

LAND AT JUNCTION 16 (M4), SWINDON

Please note the particulars in connection with the above planning application are available to view on the planning website <http://www.wiltshire.gov.uk/planninganddevelopment.htm>

Matters Considered:

Documents Reviewed:

- 107846-PEF-ZZ-XX-RP-CD-000001-S2-P05_SDR Bound
- OUT PL 2023 09142_Drainage Response_v1.0 (Issued on 30th November 2023)
- OUT PL 2023 09142_Drainage Response_v2.0 (Issued on 18th October 2024)

The applicant has submitted this application for the discharge of conditions imposed on application **PL/2023/09142** issued on 30th November 2023.

The applicant has submitted "Sustainable Drainage Report". On reviewing the submitted documents, the Local Lead Flood Authority has following comments:

- *For condition 1*, the applicant has provided borehole data available from BGS, suggesting that no water was encountered. The applicant recommends conducting infiltration tests at a later stage. At present, the applicant suggests utilizing the existing drainage ditch, which runs towards the east of the site, as the most suitable option for surface water discharge.

The applicant must submit evidence demonstrating how the surface water disposal hierarchy has been applied and how all other options (such as infiltration) have been exhausted.

- *For Condition 2*, the applicant has provided detailed drainage calculations for different storm events. However, the calculations use a MADD factor of 2, which indicates additional storage of 20 m³/ha. The detailed drainage calculation must follow the Wiltshire Council policy which states that:

"Hydraulic Models should set the MADD factor / additional storage volume factor to 0m³ / ha in order to prevent an overestimation of storage capacity in the proposed drainage network.

If the drainage model includes runoff from the full site (both permeable and impermeable areas), the default Cv values of 0.75 (summer) and 0.84 (winter) may be used. If runoff is only included from impermeable catchment areas within the drainage model, a Cv value of 1 must be used. "

The applicant needs to resubmit detailed drainage calculations as per Wiltshire Council policy mentioned above along with drainage drawings and drawings must show the pipe/link & manhole/ node numbers used in the calculations in order to link the drawings with the detailed calculations. Additionally, a plan showing the cross sections and design of any attenuation pond and its components must also be submitted.

- *For condition 3*, the applicant plans to restrict discharge rates from the site to the greenfield Qbar rate of 25.1 l/s (corresponding to the 1 in 2.33year rainfall event) for all events up to the 1in 100year + climate change storm. The applicant has not provided evidence about how betterment will be provided for 1 in 1 year rainfall event. It is acknowledged that for the higher return period rainfall events this Qbar rate will provide betterment, however this will not provide the required level of betterment for lower return period events (such as the 1 in 1 year rainfall event). Wiltshire Council's betterment policy for greenfield sites states:

The applicant must resubmit runoff calculations which demonstrate that the required 20% betterment against greenfield rates has been achieved for all storm events between the 1 in 1 year and the 1 in 100year return period storm events.

- *For condition 4*, information has been provided via mail that the proposed development will not have adverse effects on the existing highways' drainage.

Hence, Condition 4 can be discharged. However, based on provided information, the **Local Lead Flood Authority (LLFA) cannot discharge condition 1, 2, and 3** at this stage. The applicant must provide additional information to discharge these conditions.

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Vijit Rathore (AtkinsRéalis) working on behalf of Wiltshire Council Drainage.