

Water Quality Statement

1. Design Approach

Surface water run-off is limited to roof water only, which is considered clean and uncontaminated. Run-off will be collected via gutters and downpipes before being directed to soakaways. No yard or contaminated run-off (e.g. from livestock or fuel storage) is included within the system.

2. Compliance with SuDS Water Quality Standards

- **Source Control:** By collecting run-off at source from the roof, the system minimises exposure to potential pollutants.
- **Infiltration via Soakaways:** This provides natural filtration of water through soil strata, improving quality before reaching groundwater.
- **Low Risk Profile:** As the sheds are agricultural buildings used for storage (not involving pollutants), and with no direct discharge to watercourses, the risk of water quality impacts is negligible.

3. Maintenance for Water Quality Protection

- Regular inspection and clearing of gutters and downpipes will prevent build-up of debris that could otherwise impact infiltration performance.
- Soakaway inspections will ensure there is no evidence of contamination or reduced performance.
- Should any accidental contamination occur (e.g. from spillage near drainage inlets), remedial action will be taken immediately, including isolation and replacement of affected media.

4. Conclusion

The proposed drainage design and maintenance regime ensures that water quality will be preserved to a high standard in accordance with the National Standards for SuDS and the NPPF. The infiltration-based approach, combined with a clear maintenance plan, secures the long-term functionality of the system and protection of water quality.