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SOAKAWAY TESTING REPORT

MEIGH ROAD PLAYING FIELDS,
WERRINGTON,
STOKE ON TRENT,
ST9 0NQ.

Date: June 2026

Our Ref: A10199

Prepared for:

Werrington Parish Sports Ground

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1.0 INTRODUCTION

We have been requested to undertake a soakaway investigation at Meigh Road Playing Fields, Werrington, Stoke on Trent, ST9 0NQ.

The purpose of this investigation is to assess the feasibility of managing surface water runoff through infiltration methods. The investigation was undertaken to determine the permeability of the ground and to provide a soil infiltration rate to enable soakaway drainage design. The site investigation comprised the excavation of two test pits and undertaking soakaway tests in accordance with BRE digest 365.

2.0 INVESTIGATION

Following the excavation of a 1.5m x 0.5m x 1.8m deep trial hole at the edge of the grass football pitch above the BMX track and a 2.2m x 0.5m x 1.7m deep trial hole in the area bellow the BMX track. The soakaway tests were undertaken in general accordance with BRE 365 “Soakaway Design”.

The trial pits were excavated to a depth deemed sufficient to represent a section of the design soakaway. The vertical sides were trimmed square and the pits were filled with water and allowed to drain to 75% of its depth. The in the water level was recorded with time form 75% full to 25% full, this process was then repeated a further 2 times.

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3.0 RESULTS OF THE INVESTIGATION

3.1 General

The following sections provide a summary of ground conditions encountered and soakaway testing results.

3.2 Ground Conditions Encountered

Trial Pit 1

0-300mm	Topsoil
300-1200mm	Firm Yellow Clay
1200-1500mm	Clays
1500-1800mm	Firm Blue Clay

Trial Pit 2

0-500mm	Topsoil
500-900mm	Firm Blue Clay
900-1700mm	Yellow Clay
Base	Sandstone Bedrock

3.3 Groundwater

No groundwater was encountered in the trial pits. However there was perched water in the second trial hole which was leaching into the hole from the sides.

3.4 Soakaway Test Results

Trial pit 1 was monitored for over 4 hours and showed only minimal movement, the soakaway test was abandoned at this point.

Trial pit 2 was monitored for 3 hours and showed no decrease in water level, the soakaway test was abandoned at this point.

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4.0 CONCLUSIONS

Soakaway testing has been undertaken in accordance with BRE Digest 365 to determine the permeability of the ground to assess the suitability of soakaway design. The tests failed to drain to both 25% and 75% effective depth and so are deemed to have failed.

The tests indicate that the ground has a very low permeability which confirms a soakaway design would not be suitable on site and therefore other options must therefore be explored.

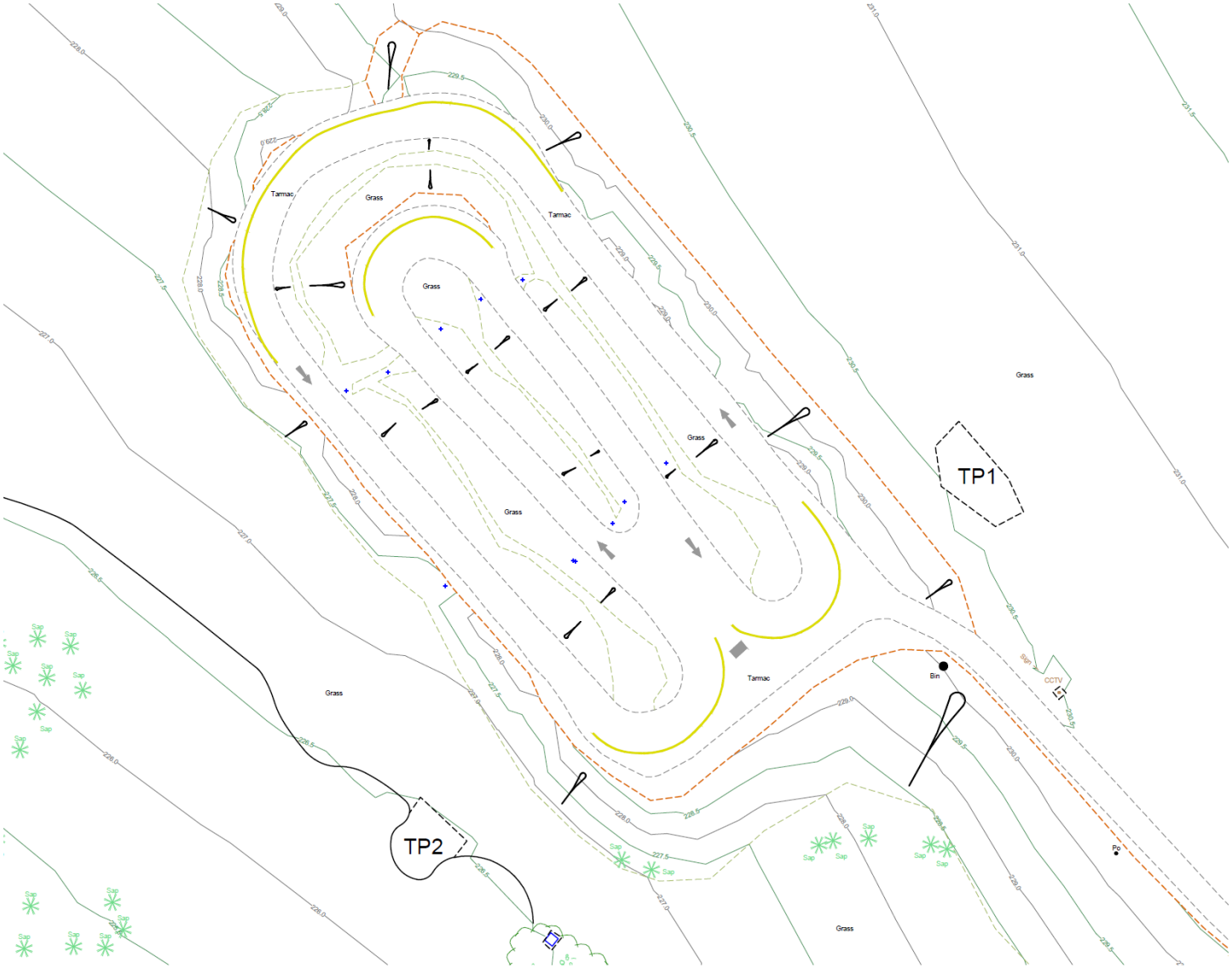
Signed: 

10/06/2026

Sam Raven, BEng (Hons)
For and on behalf of AJS Structural Design Ltd

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TRIAL PIT LOCATION PLAN



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TP1



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