

Meath County Council

SITE CHARACTERISATION AND ASSESSMENT FOR PROPOSED TOILET BLOCK AND ASSOCIATED CREMATORIUM AT LOGANSTOWN, TRIM, COUNTY MEATH

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SCOPE OF THIS REPORT

The findings of this report are the result of a desk study and geological field interpretation. Interpretations and conclusions included in the report are based on knowledge of the ground conditions following detailed investigations, as well as the regional soils, subsoils and bedrock geology, and the experience of the author. Dr. Robert Meehan has prepared this report in line with best current practice and with all reasonable skill, care and diligence in consideration of the limits imposed by the survey techniques used and the resources devoted to it by agreement with the client. The interpretative basis of the conclusions contained in this report should be taken into account in any future use of this report.

Dr. Robert Meehan accepts no responsibility for any matters arising if any recommendations contained in this document are not carried out, or are partially carried out, without further advice being obtained from Dr. Robert Meehan.



Figure 1: Location of the site at Loganstown, marked with a red circle (O.S. Licence EN 0057921).

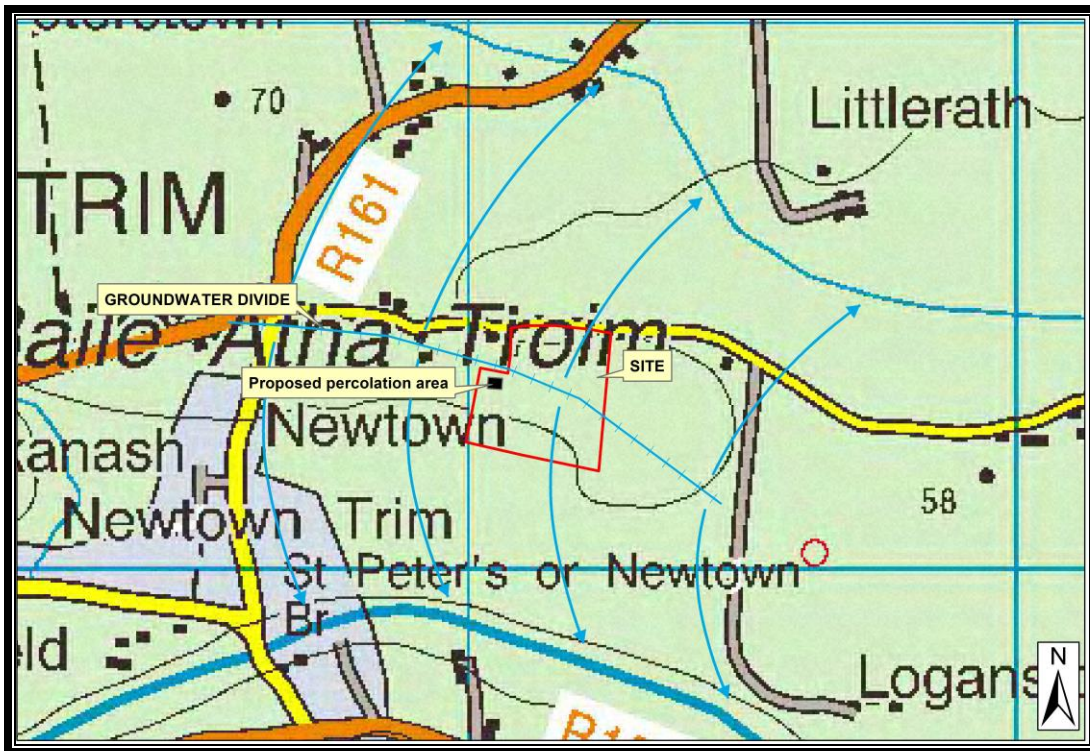


Figure 2: Groundwater flow direction on and around the site, which is towards the River Boyne at the south in the area of the site to host the percolation area (O.S. Licence EN 0057921).

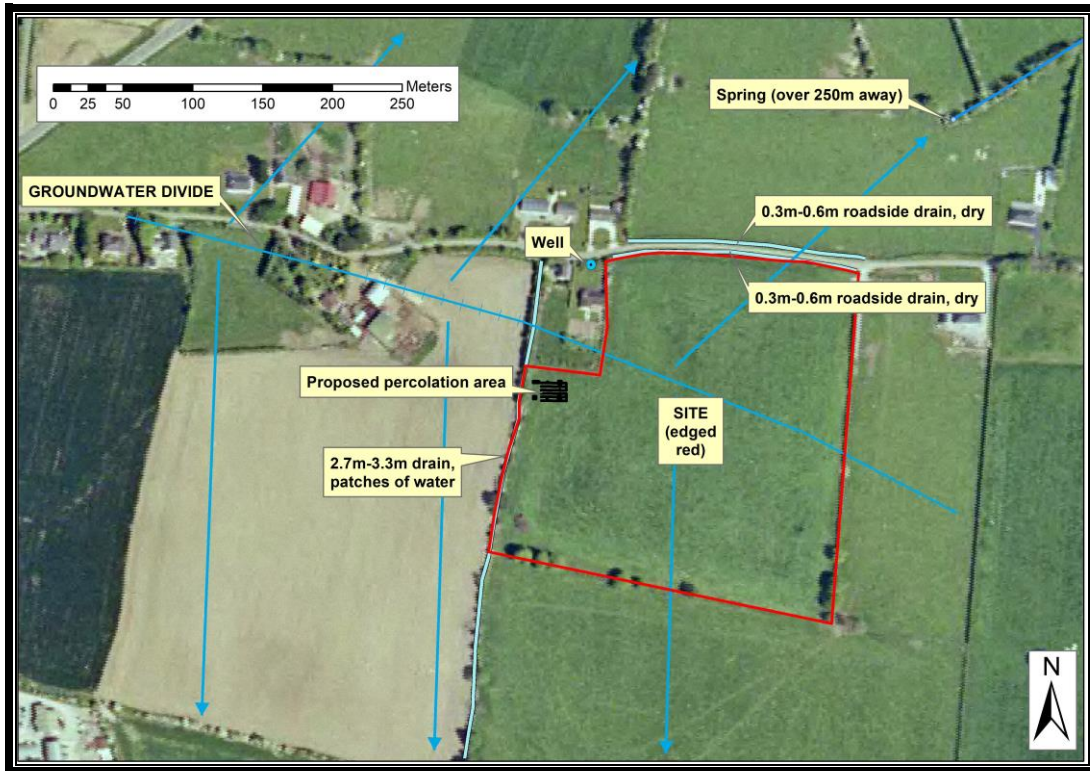


Figure 3: Features around the site, including boundary walls/fences, hedgerows, houses, drainage ditches, streams, springs, and roads. Groundwater flow directions are also shown.

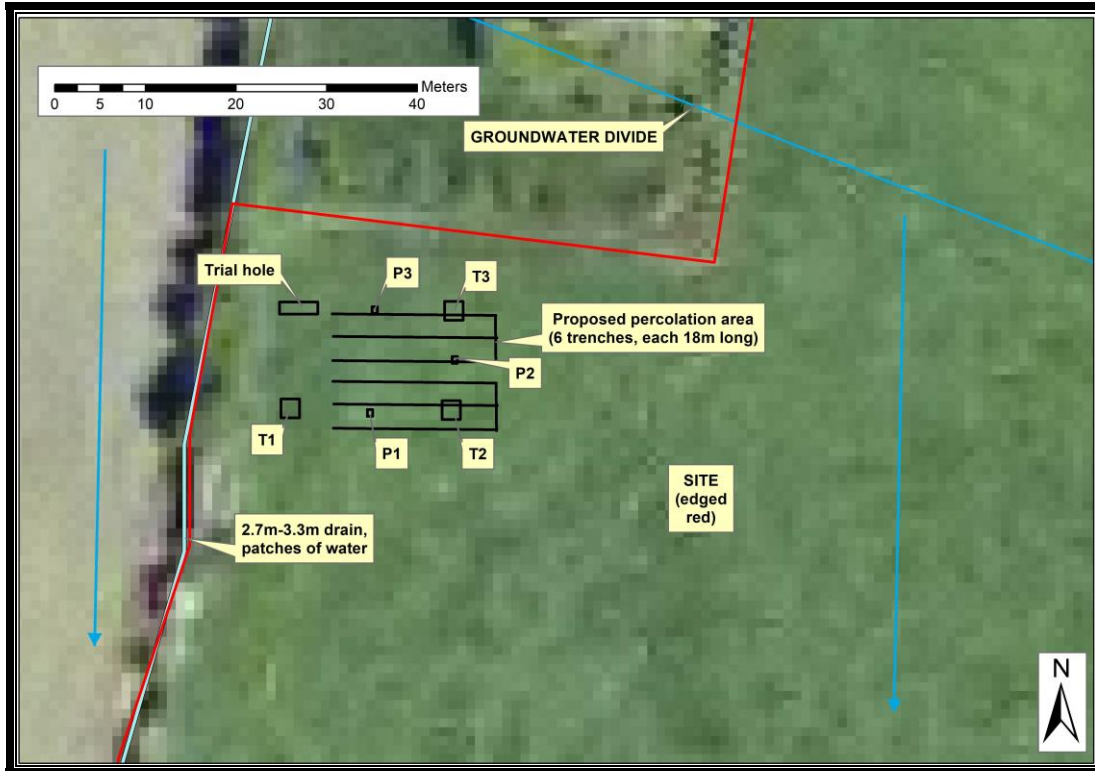


Figure 4: Location of trial hole and percolation test holes on the site, in relation to the proposed percolation area. Groundwater flow direction is again shown.



Plate 1: View of the site from the north, while excavating the test holes. See the well drained appearance of the land around the site.



Plate 2: Profile of soil and subsoil in the trial hole. See the well aerated nature of the topsoil and the subsoil, with no mottling observed throughout the profile. See also the absence of the water table and bedrock at base of the hole.



Plate 3: Water falling on morning of Wednesday 26th May 2021 in subsurface test hole number 1.



Plate 4: Water falling on morning of Wednesday 26th May 2021 in subsurface test hole number 2.



Plate 5: Water falling on morning of Wednesday 26th May 2021 in subsurface test hole number 3.



Plate 6: Water falling on morning of Wednesday 26th May 2021 in surface test hole number 1.



Plate 7: Water falling on morning of Wednesday 26th May 2021 in surface test hole number 2.



Plate 8: Water falling on morning of Wednesday 26th May 2021 in surface test hole number 3.

PERCOLATION AREA DESIGN

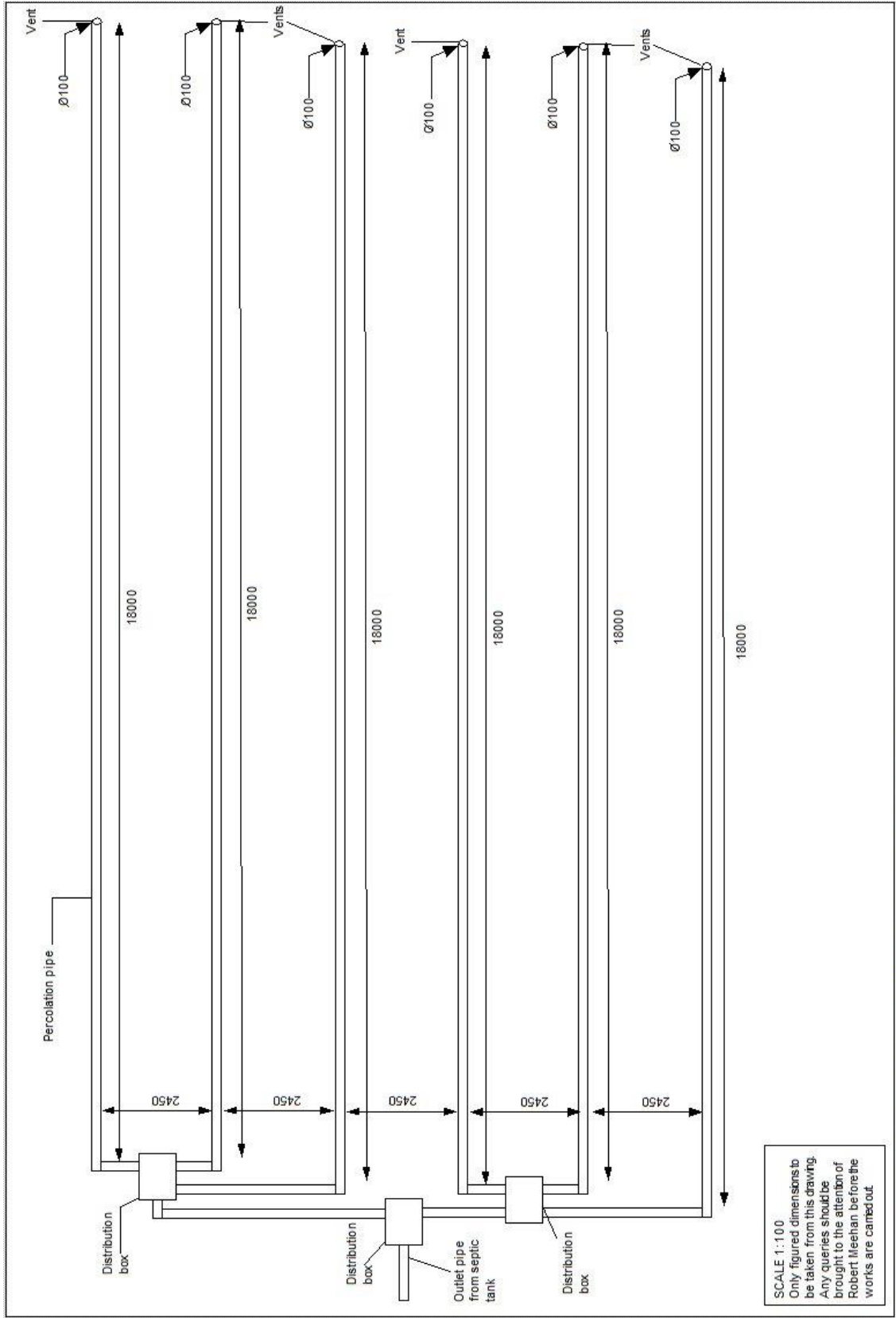


Figure 5. Layout of percolation area for site at Loganstown for Meath County Council

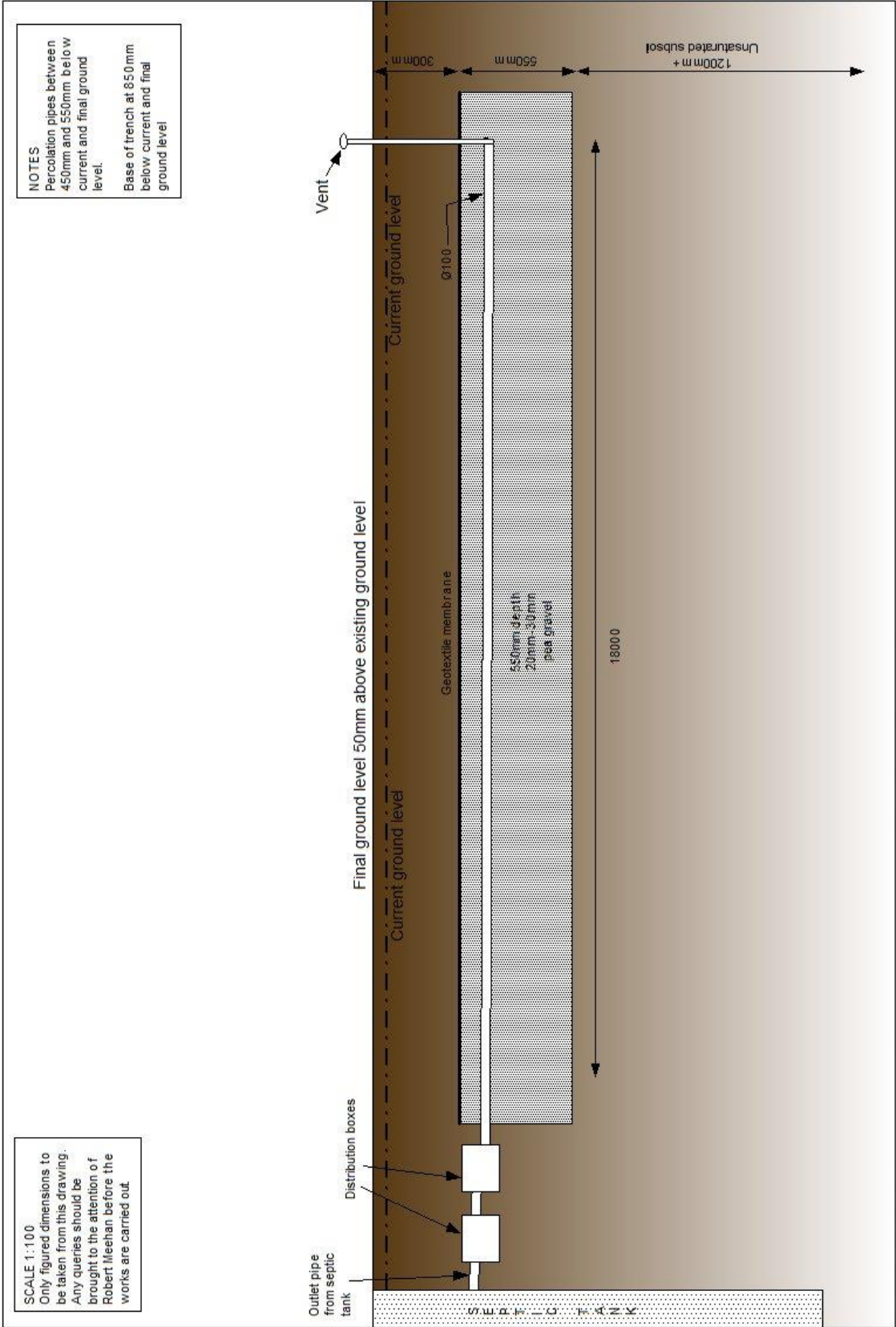


Figure 6: Cross sectional view of percolation area for site at Loganstown for Meath County Council.

GEOSCIENTIFIC MAPS

