

OUR REF: A4506/22/LR 6th September 2022

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Ms Ozma Khan
O/B Mr Harpawan Sahota
197-201 Mount Road
Gorton
Manchester
M18 7GG

By Email (ozmaj@hotmail.com)

Dear Ozma,

Soil Infiltration Rate Assessment Letter Report
197-201 Mount Road, Gorton

Background

A site investigation has been commissioned by Ms Ozma Khan, on behalf of Mr Harpawan Sahota (the Client), to examine the soil infiltration rates of the ground at 197-201 Mount Road, Gorton.

Reference

Earth Environmental and Geotechnical Ltd were commissioned by the client, in accordance with proposal A4506/22 dated 25th July 2022, to undertake a Geo-Environmental Investigation of the site with the following objectives:

- Assessment of ground conditions for soakaway design.

Proposed Development

It is understood that the proposed development of the land includes the extension of the existing building at 197-201 Mount Road, Gorton to include four self-contained apartments with associated off-street parking.

Fieldwork

Over the course of one day (31st August 2022), two locations (SA1 to SA2) were excavated by means of a tracked hydraulic excavator. Both of these pits were designated for soakaway testing. Due to the slow infiltration rate of the pits, only one fill with water was carried out at each location. This was carried out by filling the excavation rapidly with water from a towed water bowser. A plan of the testing is provided as Figure 1 overleaf.

The infiltration rate of each location could not be calculated due to the slow rate at which the water drained away. The detailed testing results for these are presented in Appendix B with a summary in Table 1.

All locations were surveyed by use of a Trimble GeoExplorer GPS instrument. This instrument is capable of a positional accuracy of less than 50cm, depending upon satellite coverage and proximity to buildings etc.

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Ground Conditions

The site is currently occupied by a mixed commercial and residential property with a rear area of gravel/softstanding that will be developed into parking. The ground conditions under the site generally comprised Made Ground gravel to a maximum depth 0.15m underlain by slightly sandy clay. Groundwater strikes were encountered at 1.80m in both SA1 and SA2. Detailed logs of the trial pits excavated during the soakaway testing can be found in Appendix A.

Figure 1: Soakaway Location Plan



Soakaway Testing

Each of the soakaway pits were excavated down to the natural strata which was, in general, clay. Table 1 overleaf summarises the results of the soakaway tests, which in each excavation was too slow to be calculated.

Table 1: Soakaway Infiltration Rates

Soakaway No.	Average Infiltration Rate (m/s)
SA01	Too slow to calculate
SA02	Too slow to calculate

Conclusions

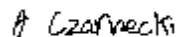
The infiltration testing revealed the clay deposits underlying the site to be unsuitable for the installation of soakaways and alternative methods of surface water drainage should be investigated.

Please do not hesitate to contact me should there be any queries.

Yours Sincerely,



Luke Glover
Principal GeoEnvironmental Consultant



Adam Czarnecki
Director

For and on behalf of Earth Environmental & Geotechnical Ltd

Enclosed: Appendix A – Soakaway Pit Logs
Appendix B – Soakaway Testing Results



APPENDIX A

SOAKAWAY PIT LOGS



APPENDIX B

SOAKAWAY TESTING RESULTS