



Howley Energy & Water Limited

CASE STUDY – MANCHESTER METROPOLITAN UNIVERSITY BIRLEY FIELDS 2023 - 2025

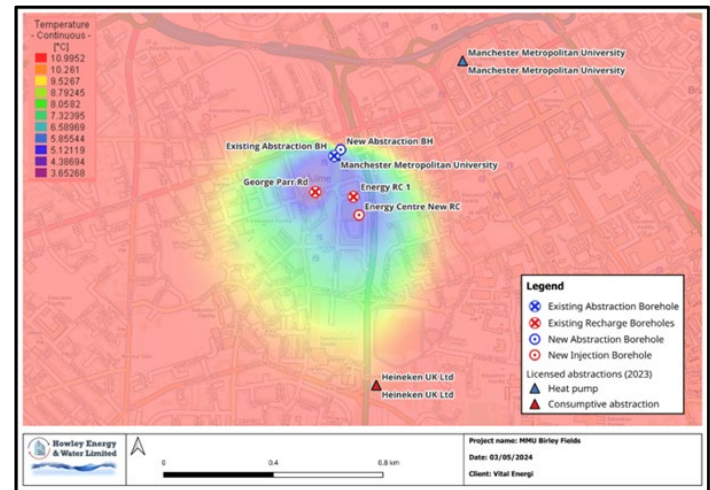
In 2023, Howley Energy & Water Ltd were appointed by Vital Energi Ltd to undertake an initial feasibility assessment towards the development of a 1.4MW open loop borehole system at the Manchester Metropolitan University Birley Fields Campus.

Howley completed a hydrogeological feasibility investigation which identified that the 100m deep Collyhurst Sandstone was likely to be able to provide the yields required to service the campus buildings.

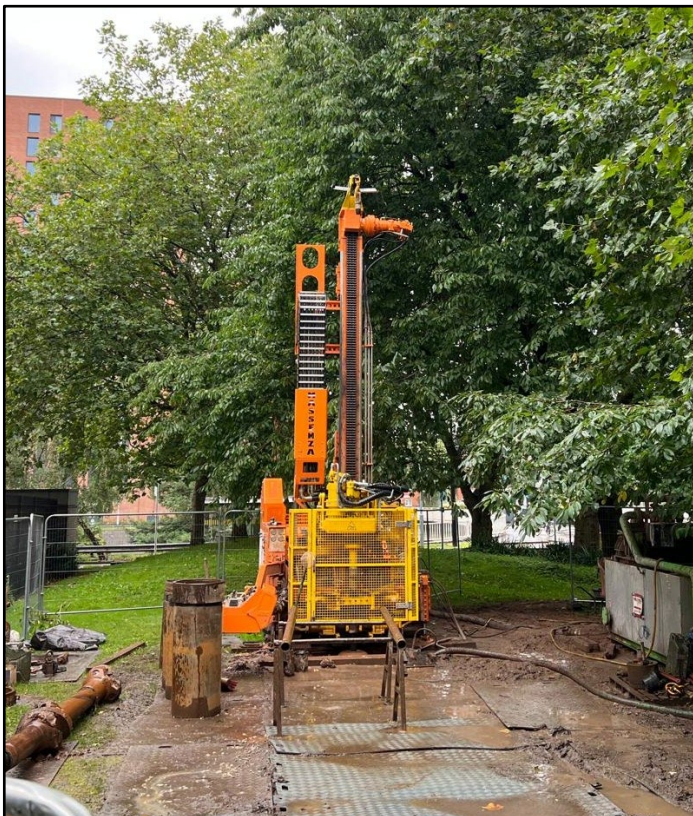
Aquifer thermal modelling followed on from the initial hydrogeological assessment and results showed that abstraction and recharge boreholes were to be distanced to the full boundary extent from each other to offer a long term thermally sustainable system.

In 2024, drilling was initiated and two abstraction boreholes and three recharge boreholes were installed and pump tested at a combined flow rate of 32 l/sec.

All on-site drilling and test pumping operations were monitored and data gathered to allow stage 2 thermal modelling to be undertaken.



The system was fully licenced and commissioned in the spring of 2025.



Client	MMU / Vital Energi Ltd
Location	Hulme, Manchester
Peak Heating kW	1200
Peak Cooling kW	850
Groundwater Flow Rate	32l/sec
Borehole configuration	2 ABS – 3 RCH
Borehole distance	180m
Year Installed	2024 - 25
Reference	Please contact for detail