

# Ground Treatment Solution Glass House at RHS Wisley



## BACKGROUND

The site comprised an open grassed field located on the western extremes of the gardens at RHS Wisley.

It was proposed to develop the site with two large linked glasshouse structures and an ornamental lake.

## INVESTIGATION

Geological records indicated the site to be underlain by Kempton Park Gravel over Bagshot Beds. Within the area of the proposed glasshouses, the upper 1.5m soils were variable and comprised sands and gravels that varied between a loose to dense state, while impersistent clays generally had a soft consistency and were highly compressible.



The underlying sands and gravels were generally in a medium dense to dense state. In addition a high groundwater table was measured between 0.5 and 1.0m bgl.

## DESIGN SOLUTION

Noting the poor soil and groundwater conditions and following detailed discussions with the Engineer, Client and Ground Treatment Specialist, a foundation solution was proposed that included raising levels with sand / gravel materials to form a suitable working platform and ground treatment using Vibro-Stone Columns (VCS) to support loaded pad foundations.

