



Ground Treatment Solution - Glass House at RHS Wisley

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

It was proposed that the site be developed to accommodate two large linked glasshouse structures and an ornamental lake.

Ground Conditions

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.



Southern Testing Head Office
East Grinstead
Tel: 01342 333100
enquiries@southerntesting.co.uk

ST Consult Midlands
Northampton
Tel: 01604 500020
creaton@stconsult.co.uk

ST Consult North West
Warrington
Tel: 01925 661 700
warrington@stconsult.co.uk

ST Consult South West
Swindon
Tel: 01793 441 522
swindon@stconsult.co.uk



FS 29280

EMS 506775

OHS 506776

