Offshore Laboratory Testing

Introduction

The Geoquip Marine containerised laboratories allow technicians and geotechnical engineers to determine soil classification and strength parameters for use in foundation design, pipeline route assessments and dredging engineering applications offshore during fieldwork operations.

Data Transfer

The latest updates on drilling progress, data from downhole measurements and the results of laboratory testing can be sent to our clients shortly after they have been acquired. This allows our customers to monitor progress and to receive relevant information as soon as possible.

Data Acquisition

The real time CPT system provides a continuous profile of tip resistance, sleeve friction and pore water pressure, which can be used for the derivation of parameters for further design. The system has the ability to operate a range of cone sizes and optionally seismic CPT cones.

Laboratory Testing Equipment
UU triaxial test apparatus
Miniature laboratory vane
Hydraulic extruder
Soil drying ovens
Torvanes
Pocket penetrometers
Point load test machine
Fall cone apparatus
Soil lathe
Sample digital camera
Thermal Properties Analyzer

Tests Performed Offshore
Geotechnical visual/field description - according to client required standards
Digital photography
Water content
Bulk and dry density
Qualitative carbonate content
Su – by torvane
Su – by pocket penetrometer
Su – by fall cone
Unconsolidated undrained triaxial tests; undisturbed and remoulded results
IS_{50} measurement
Thermal conductivity