

## > WHAT WE DO!

Short Courses 2018

GDPR: Make sure you sign up!

## Welcome to RGS insite issue 32

our in-house electronic bulletin that aims to keep you all up to speed with everything that's happening each month.

Rogers Geotechnical Services Ltd are site investigation specialists offering ground investigation and geotechnical services to developers, builders, structural and consulting engineers, architects, insurance companies, local authorities, piling and foundation engineers, private individuals and other geotechnical consultants.

## Range and Scope!

RGS is working hard to ensure that our clients fully understand the range and scope of our services. To support our ongoing public relations drive, we produced a video which we publicised last month. [Click here](#) to take a look.

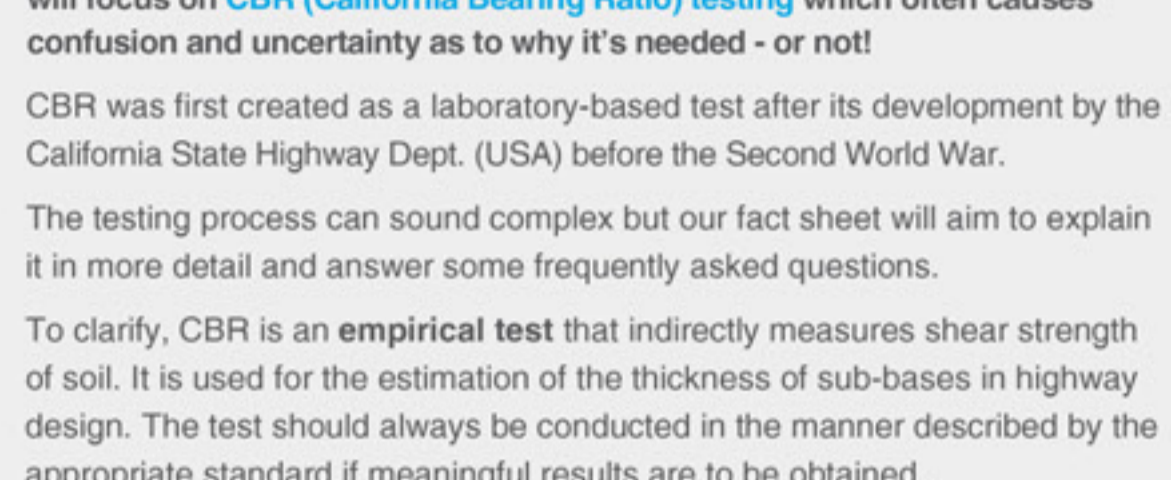


YOUR GUIDE TO A SAFE, COMPLIANT, COST-EFFECTIVE SOLUTION



### FACT SHEET

## CBR Testing



We also continue to produce a series of leaflets and fact sheets to explain in more detail what we do - and why our clients need us! Our latest fact sheet will focus on **CBR (California Bearing Ratio) testing** which often causes confusion and uncertainty as to why it's needed - or not!

CBR was first created as a laboratory-based test after its development by the California State Highway Dept. (USA) under the Second World War.

The testing process can sound complex but our fact sheet will explain it in more detail and answer some frequently asked questions.

To clarify, CBR is an **empirical test** that indirectly measures shear strength of soil. It is used for the estimation of the thickness of sub-bases in highway design. The test should always be conducted in the manner described by the appropriate standard if meaningful results are to be obtained.

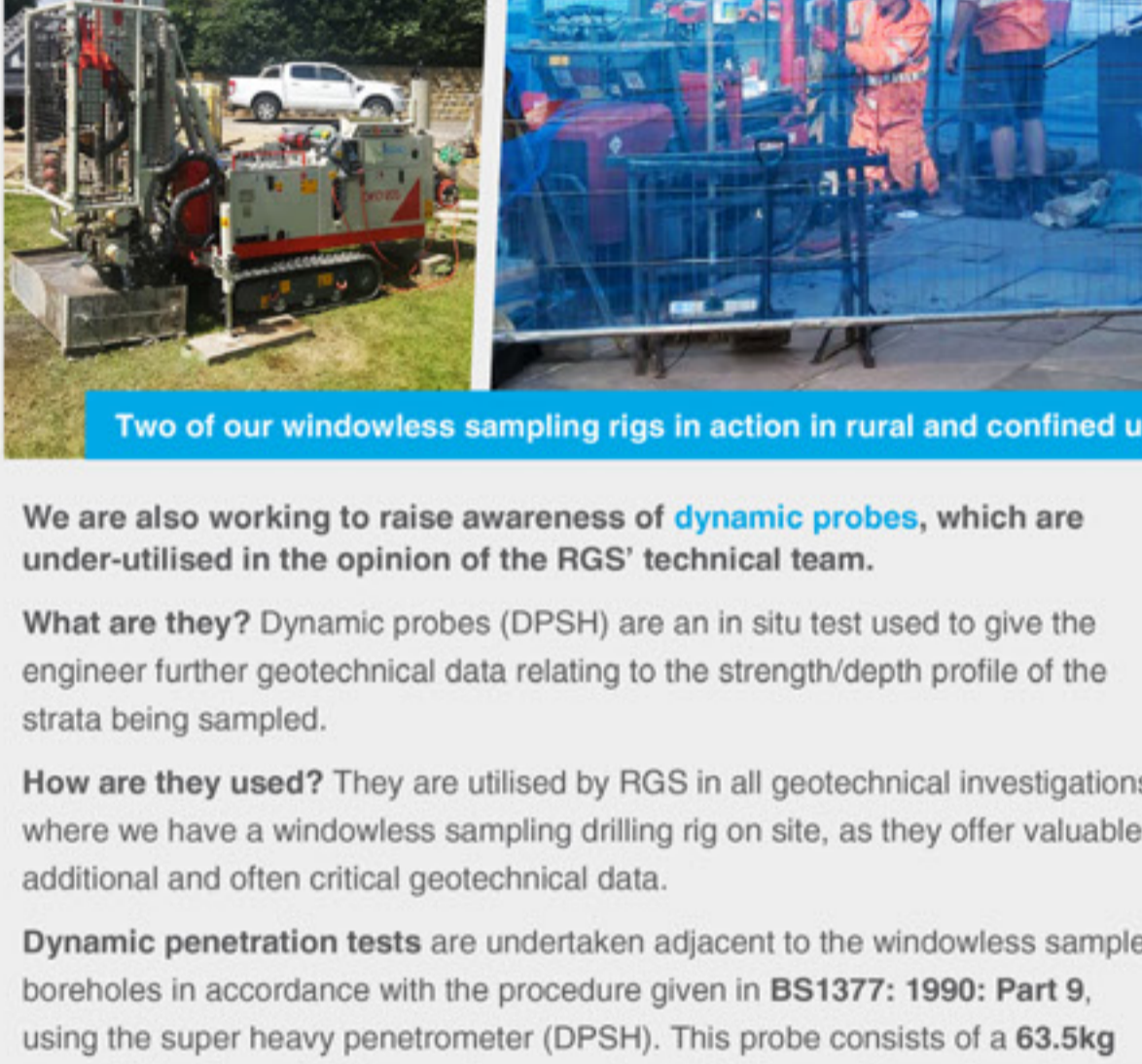
The test involves pushing a plunger (approx 50mm diameter) into the sample at a rate of 1mm/min. During penetration, the force acting upon the plunger is measured via a proving ring and a graph of load against penetration plotted. After applying corrections to this graph, the load at 2.5mm and 5mm penetration are recorded.

The loads are then expressed as a percentage of the loads obtained for the same penetrations on a sample of gravel from California. These "standard loads" are 13.2kN at 2.55mm penetration and 20.0kN at 5mm penetration.

The new fact sheet will be added to our website as soon as it's available. In the meantime, please **contact Steve Rogers**, our Technical Director for more information, by [clicking here](#).

### TECHNICAL ANALYSIS

## Dynamic Probes



Two of our windowless sampling rigs in action in rural and confined urban spaces

We are also working to raise awareness of **dynamic probes**, which are under-utilised in the opinion of the RGS' technical team.

**What are they?** Dynamic probes (DPSH) are an in situ test used to give the engineer further geotechnical data relating to the strength/depth profile of the strata being sampled.

**How are they used?** They are utilised by RGS in all geotechnical investigations where we have a windowless sampling drilling rig on site, as they offer valuable additional and often critical geotechnical data.

**Dynamic penetration tests** are undertaken adjacent to the windowless sample boreholes in accordance with the procedure given in **BS1377: 1990: Part 9**, using the super heavy penetrometer (DPSH). This probe consists of a **63.5kg mass** falling through 750mm onto an **anvil**, which drives a 50mm diameter cone into the ground. The number of blows required to drive the cone through successive **100mm** increments are recorded as the **N100** values.

Senior Geotechnical Engineer **James Farnsworth** said,

"The test is, in our view, **under-utilised** and in a recent ground investigation they proved **critical** in our calculations for foundation recommendations."

He explained that previous site investigation data was obtained using trial pits, which **suggested** that shallow footings could be utilised.



James continues,

"Our windowless sampling investigation boreholes achieved a greater depth than the trial pits, but critical the dynamic probes revealed that there was **very soft strata** immediately below the depth of the trial pits and therefore below the foundation depth of the recently constructed building."

Our investigation has resulted in the **next phase** of works being supported by a **piled foundation**."

### INDUSTRY STANDARDS

## Short Courses 2018



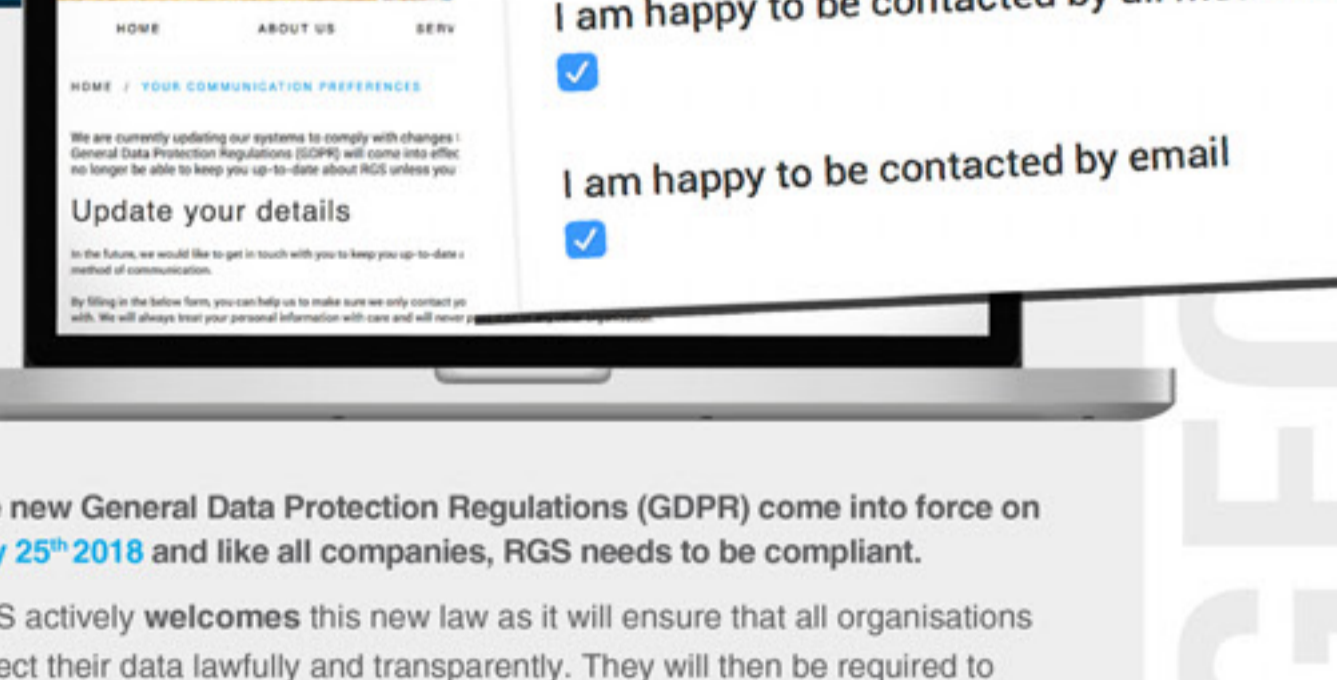
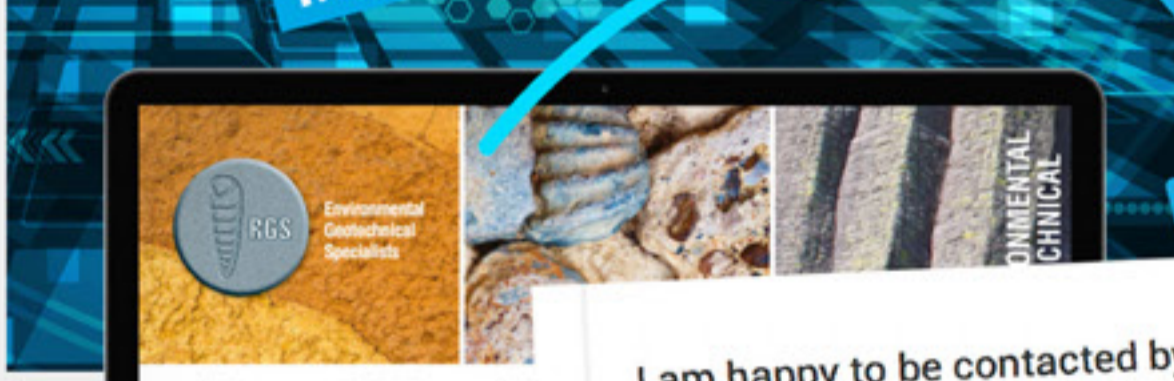
RGS is rolling out a series of **short courses** for construction site workers, including engineers, graduates, developers, technicians and contractors.

If you know anybody who would be interested in these courses please forward them our e-leaflet and ask them to contact us on **01484 604 354** for the date of our next event and fees.

[Click here](#) to download the leaflet.

### CLIENT DATA

## Sign up to GDPR!



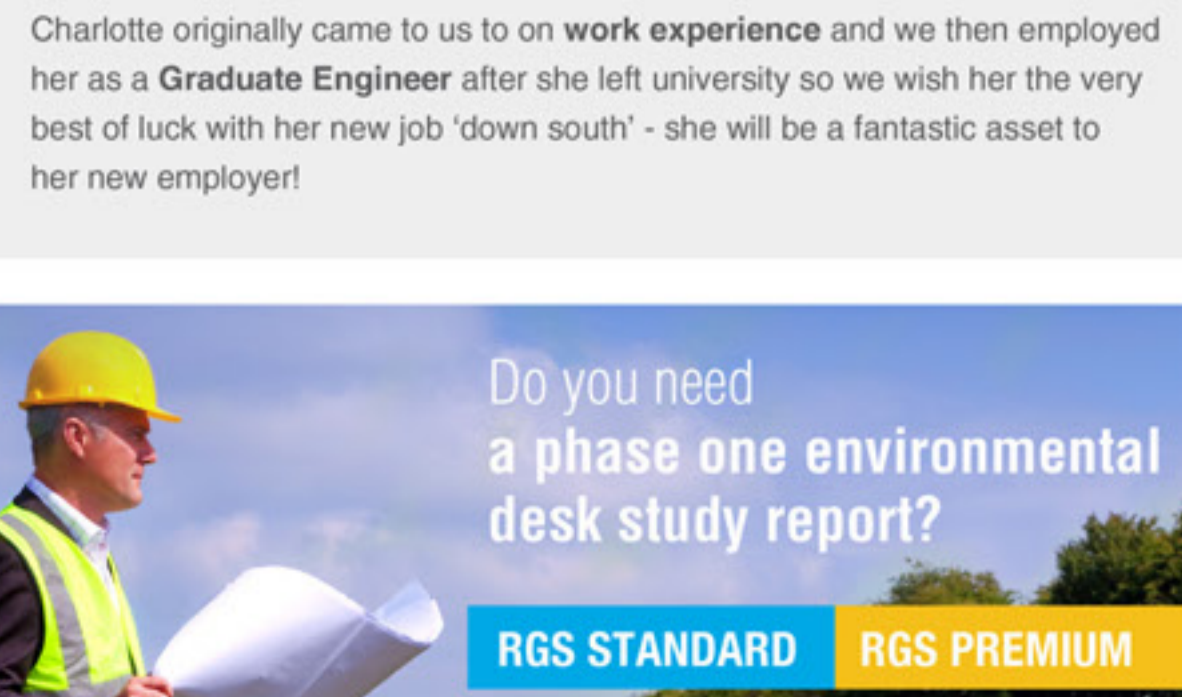
The new General Data Protection Regulations (GDPR) come into force on **May 25<sup>th</sup> 2018** and like all companies, RGS needs to be compliant.

RGS actively **welcomes** this new law as it will ensure that all organisations collect their data lawfully and transparently. They will then be required to **safeguard** it securely, without sharing anything with third parties. All data will be disposed of, securely, if the client so requires.

To make sure you still receive our newsletters [click here](#) to complete the form. **Our sincere thanks for your time.**

### STAFF DEVELOPMENT

## Goodbye and ...



It was with sadness that we said farewell to our Geotechnical Engineer, **Charlotte Mason**, earlier this month.

Charlotte originally came to us to **share her work experience** and she then employed her as a **Graduate Engineer** after she left university so we wish her the very best of luck with her new job 'down south' - she will be a fantastic asset to her new employer!

Do you need a **phase one environmental desk study report?**

**RGS STANDARD RGS PREMIUM**

Contact us for more details and to discuss your options for this service.

### CLIENT FEEDBACK

## Talk to us

"We are always keen to hear what clients think of our service and welcome feedback from within the industry. We'd love to hear from you."

[Click here](#) to email us your comments

For more information about your investigation requirements please do not hesitate to contact us

Telephone on **01484 604 354**

or [click here](#) to email us