



SOCOTEC



Ground Investigation Data Collection and Management using SILAS

Developed in-house, SOCOTEC's mobile app, SILAS, assists our drillers, site engineers and technicians with efficient and reliable collection of fieldwork data. This includes cable percussion boring, rotary drilling and trial pitting.

The success of a ground investigation project relies on collecting reliable geotechnical information for engineering design purposes. It is vital that the fieldwork records recovered from site are accurate, with appropriate collation and reporting of the data.

SOCOTEC's SILAS (Site Information Logging and Storage) app runs on an Android tablet and contains templates designed for easy data entry. These input templates include data validation checks to ensure essential information is not omitted and errors are minimised. Using Wi-Fi connection, completed shift information is sent by the app to a database located on SOCOTEC's central server. The data also remains within the tablet's memory for additional security until removed.

Accessible by SOCOTEC's project staff from any location with an internet connection, the database information can be downloaded as Excel field logs for hard copy or email, and as an AGS4 data file which can be imported into the project HoleBASE database or other AGS compatible system. Using SOCOTEC's in-house data management portal, we can provide our clients with rapid access to field data.

BENEFITS OF USING SILAS

British Standard BS 5930:2015 recommends following suitable protocol for the management and transfer of digital data between all parties. SILAS has been developed specifically to operate in an AGS4 data environment, where all the defined data groups and fields are mapped to data entries in the app.

SILAS also includes other features to assist the field staff, including:

- exploratory hole positioning using the inbuilt GPS
- photographic records using the inbuilt camera
- sample label printing using a Bluetooth connected printer

Photographs taken with the app are automatically given file names based on the project and hole details, together with specific information, such as trial pit face identifier. Along with the shift information, the image files are uploaded to SOCOTEC's central server.

The label printer generates adhesive labels with text printing of the project, hole and sample information, as well as barcode representation.

With the SILAS app, SOCOTEC is able to carry out structured data entry during fieldwork activities and rapidly generate the relevant records in hardcopy and digital format. Double-handling of information, and consequent delays and opportunities for transcription errors are removed. This permits a more speedy and reliable delivery of information to our clients, as well as improving the efficiency of our own internal processes.

MORE ABOUT OUR SERVICES

For more information or advice on the best service for you, please call 0845 603 2112 or email salesuk@socotec.com

