



Project 16-1197

# CITY DEALS GLASGOW OVER WATER GROUND INVESTIGATION



## CLIENT

Renfrewshire Council



## CLIENT REPRESENTATIVE

SWECO Consulting Engineers



## SITE OPERATIONS

January to March 2017

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### PROJECT OVERVIEW

Causeway Geotech were appointed by Renfrewshire Council to carry out overwater ground investigation works for provision of geotechnical and environmental information to characterise ground conditions at the river bed alongside an existing dock, as well as a number of locations along the existing riverbanks for input to the design and construction of a proposed new quayside and a pair of road bridges.

### OUR APPROACH

#### GAIA Area

- **4 overwater boreholes** by cable percussion boring and Geobor S wireline coring for the bridge works.
- **Waterborne geophysical surveys** of both works area for Bathymetry, Sub Bottom Profile, Side Scan Sonar, and Magnetometer.
- **Overwater works** at both locations carried out off a C5 jack-up barge supplied by Ocean Crest Marine.
- Factual ground investigation **reports.**

#### CWRR Area

- **10 overwater boreholes** by cable percussion boring and Geobor S wireline coring for the quayside and bridge works.
- **Piston and Environmental sampling** of the soft sediments for Marine Scotland dredge analyses.



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Site works conducted 24/7 with two crews working alternate 12 hour shifts



Drilling works underway at a riverbank borehole location

## THE PROCESS

Works were carried out under the supervision of a team of two Site Engineers from Causeway Geotech who liaised with the Client's Representative and Peel Ports Authority. Overwater works were carried out on a 24/7 working hours basis to expedite delivery of the site works programme.

Independent noise surveys were conducted due to the proximity of the works area to residential properties. Noise attenuation measures were adopted to ensure minimal impact to residents. The project was completed ahead of schedule without any complaints.