



## Testing off the quay wall

Client	GI contractor
Location	South Coast
Duration	1 week
Scope	CPT <sub>u</sub>

In October 2018 Lankelma carried out testing off a quay wall ahead of creation of a new quay wall to protect parts of the area which are currently susceptible to flooding.

The proposed method of testing over water utilised Lankelma's excavator mounted CPT rig, UK14, hitched to a landside excavator. This enabled testing approximately 0.2-0.3m from the wall, but the client quickly decided that they needed information further from the wall.

The solution was to use the cantilever frame mounted with a CPT ram set which permitted testing up to 2m from the quay wall.



A hitch was fitted to the cantilever frame to allow an excavator to secure the frame and provide the reaction force during the push.

Six CPTs were carried out with 55mm and 73mm casing pushed to mud level to provide support for rod string during the test.

In addition to the overwater testing, six CPTs were completed onland, through cored locations on the quay, with the 20.5 tonne track-truck.