

Case Study:

Mooring Bollards, Port of Tyne

Client:

Esh Group

Sector:

Infrastructure: Marine

Services Provided:

Rotary Bored Cased Piling
Ground Anchors

Location:

Port of Tyne,

Value:

£82,000

Year:

2017



Van Elle were selected by the ESH Group to undertake installation works on the Port of Tyne. This was part of an improvement scheme aiming to enable the docking of a large ship. Two specific locations required piles & strand anchors to create necessary mooring bollards.

Van Elle installed 4No. 880mmØ rotary bored cased piles with full depth reinforcement cages to 16 metres deep, with a 3 to 5 metre rock socket. This took about 1 Week to complete.

Van Elle employed the Casagrande C6-XP rig to drill 2No. 30m long 10 strand anchors. The anchors had a safe working load of 1500kN.

240mm boreholes were drilled with a 'Superjaws' overburden drilling system. Throughout the installation, Van Elle had to overcome tidal water flow and pressures within the boreholes. Drilling was carried out using a DTH Hammer and rotary techniques. These works took approximately 2 Weeks.

