



CAUSEWAY
GEOTECH

Project 19-0160

NEWRY SOUTHERN RELIEF ROAD



CLIENT

Department of Infrastructure/ /CPD



CLIENT REPRESENTATIVE

AECOM Consulting Engineers



SITE OPERATIONS

March - June 2019



Project 19-0169

NEWRY SOUTHERN RELIEF ROAD

PROJECT OVERVIEW

Causeway Geotech were appointed by the Department for Infrastructure, via the Construction & Procurement Delivery (CPD) under the Pan Government Collaborative Framework Agreement for Geotechnical Site Investigation, to carry out ground investigation works for provision of geotechnical and environmental information to characterise ground conditions along the route of the proposed Newry Southern Relief Road.

This was an important high value linear infrastructure project giving the company good exposure within the local market.

OUR APPROACH

- **25 boreholes** by cable percussion boring, **15** continued into rockhead by **Geobor S wireline** coring
- **4** dynamic sampled boreholes.
- **17 standpipes** for combined gas and groundwater sampling, **1 inclinometer** installation
- **7 boreholes** completed by rotary methods only
- **3 Cone Penetration** tests
- Televiwer in **7 boreholes** (both acoustic and optical)
- **34 trial pits** by excavator including 19 CBR by DCP trsts, **2 hand dug** trial pits in verge of carriageway
- 6 rounds of **gas and ground water monitoring**
- Factual ground investigation report



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THE PROCESS

Works were carried out by an extensive site team consisting of 9 drilling rigs and 3 full time technical staff to allow the timely progression of the design of the proposed Relief Road.

The primary focus of the investigation was determining rockhead level for the Newry River and Newry Canal crossing and providing information for the embankment cut and fill operation along the proposed route.

Site crews encountered some areas of difficult access including borehole locations both on steep side slopes and third party operated public rights of way. Through careful planning and cooperation with landowners and local councils the works programme was complete on time and on budget.