

DRAINAGE INSTALLATION FOR A MAJOR HOUSING PROJECT BETH CHATTO GARDENS

CLIENT SP BARDWELL | **DURATION** 6 MONTHS | **VALUE** £55,000

PROJECT INVOLVEMENT

A QUICK RESPONSE INSTALLATION OF A SINGLE SIDED (AND IN SOME PLACES DOUBLE SIDED) WELL POINT SYSTEM

INTRODUCTION

In December 2017, Project Dewatering Limited (PDL) was appointed by SP Bardwell, to install a linear well point system along the line of a proposed deep foul sewer, connecting to a major new housing development. The dewatering system was to allow installation of the main foul drain to a depth of up to 6m.

THE WORKS

PDL were contacted by SP Bardwell following their commencement of works to install the foul main adjacent to the famous Beth Chatto Gardens. SP Bardwell had commenced works but had quickly realised, as they progressed, that due to the extent of water inflows, a professional dewatering system would be required. SP Bardwell contacted PDL who understood the need to respond quickly and attended site the following day to assess the extent of the problem.



Based on this initial visit PDL proposed a length of single sided well points over an identified trench length of 25 m. As the works continued, PDL were requested to provide further support until a total of nearly 400 well points had been installed allowing the construction of several hundred meters of trench. Most of the trench run was dewatered using a single side of well points, to keep costs to a minimum. In locations where a wider or deeper trench was required, a double sided system was implemented. Due to the variable nature of the ground most well points were traditionally jetted, however, those installed in areas containing clay horizons also had a pre auger step.

The system achieved the drawdown required and allowed the client to continue on schedule. The project showed that PDL were able to respond quickly and were able to be flexible, tailoring the installation such that the system was effective and robust but that the system was also as cost effective as possible.



**PROJECT
DEWATERING**

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EXTRACT | MONITOR | CONTROL

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