



DEWATERING



GEOTECHNICAL EXPLORATION SERVICES

IF YOUR CONSTRUCTION OR EXCAVATION REQUIRES A DEWATERING SYSTEM, THEN AS ONE OF THE FOREMOST UK DRILLING CONTRACTORS IN THE FIELD OF CIVIL ENGINEERING, WE CAN HELP. WE HAVE COMPLETED A NUMBER OF HIGH PROFILE PROJECTS INCLUDING THE STRATFORD BOX PERMANENT DEWATERING PROJECT, WHICH INVOLVED DRILLING 22 DEEP DEWATERING WELLS TO LOWER THE GROUNDWATER LEVELS AROUND STRATFORD INTERNATIONAL STATION.

WE CAN OFFER A RANGE OF DEEPWELL DRILLING OPTIONS; USING CLOSED CIRCULATION BIODEGRADABLE POLYMER MUD FLUSH, SIMULTANEOUS DRILLING AND CASING SYSTEMS, OR ALTERNATIVELY WITH ONE OF OUR HEAVY DUTY PERCUSSION RIGS.

FOR MORE INFORMATION CONTACT **SCOTT BURT**
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WELLPOINT DEWATERING SYSTEMS OFFER SIMPLE, RELIABLE AND EFFECTIVE SOLUTIONS TO GROUNDWATER PROBLEMS DURING EXCAVATIONS BY TEMPORARILY LOWERING GROUNDWATER LEVELS, THEREFORE IMPROVING GROUND CONDITIONS TO ENABLE WORKS TO BE UNDERTAKEN IN DRY, SAFE AND STABLE WORKING CONDITIONS. THESE SYSTEMS TYPICALLY INVOLVE THE INSTALLATION OF WELLPOINTS AROUND THE PERIMETER OF PROPOSED EXCAVATION. WHETHER YOUR REQUIREMENT IS FOR WELLPOINTS, EJECTOR WELLS OR PRESSURE RELIEF WELLS, YOU CAN BE SURE WE HAVE THE CORRECT MACHINE FOR YOUR NEEDS.

DEWATERING AT THE STOKE BARDOLPH SEWAGE TREATMENT WORKS EXTENSION

THE EXTENSION INVOLVED THE CONSTRUCTION OF A 156M X 75M ACTIVATED SLUDGE PLANT TANK AND 8NO. X 36MØ FINAL SETTLEMENT TANKS ALL LOCATED WITHIN THE SEVERN TRENT SITE. ALL STRUCTURES ARE WITHIN OPEN-CUT EXCAVATIONS IN THE HOLME PIERREPOINT SAND & GRAVEL MEMBER WHICH IN TURN OVERLAYS MERCIA MUDSTONE.

THE DEWATERING SYSTEM ENCOMPASSED AN AREA OF 35,000M², AND CONSISTED OF A SINGLE STAGE ARRAY OF OVER 800 WELLPOINTS INSTALLED AROUND THE PERIMETER OF THE EXCAVATION USING CONVENTIONAL WATER-JETTING TECHNIQUES. THE WELLPOINTS WERE PUMPED BY 12NO. 150MMØ 415V GEHO ZD900 PISTON DEWATERING PUMPS LOCATED AROUND THE EXTERNAL PERIMETER. THIS SYSTEM MEANT THAT GROUNDWATER LEVELS WERE REDUCED FROM 18.5MAOD TO 14.0MAOD.

DUE TO THE PRESENCE OF UPPER CLAY MATERIALS, WELLPOINTS WERE INSTALLED WITH THE USE OF A HYDRAULIC AUGER USING A 360° EXCAVATOR BUT, IF GROUND CONDITIONS DICTATE, IT IS ALSO POSSIBLE TO USE AN ODEX DRILLING RIG.



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