

Driven Precast Piling Works, Gillingham, Dorset, STW



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Aarsleff Ground Engineering were awarded the piling contract by Wessex Water, for the extension of Gillingham's Sewage Treatment Works (STW) in Dorset.

Gillingham STW is located approximately 580m south west of the centre of Gillingham and 1.45km west of Ham common and serves a population of 15,100. An extension to Gillingham's STW is required to provide additional plant and equipment to treat an increased volume of wastewater, and installation of phosphorous removal plant.

The site, which is triangular in shape, comprised a mixture of grassed areas, gravel, concrete hardstanding and STW infrastructure. The south eastern boundary of the site is defined by a row of trees beyond which lies a railway track. The site is located on superficial deposits comprising both Alluvium and Head deposits, characterised by clay, silt with sand and gravel appearing in the Head Deposits. The underlying bedrock is shown to comprise Kimmeridge Clay Formation of Jurassic age, defined as calcareous mudstone with occasional thin siltstone beds.

Scope of Works

310 No. Driven Precast Piles

Contractor

Wessex Water

Equipment

Banut 300 Rig

Construction period

August 3rd 2018 - September 14th 2018

Contact

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Aarsleff commenced on site in early September 2018, installing 303 No. precast concrete piles with its Banut 300 rig, ideally suited for restricted access sites. The piles were 250mm square section and between 5-13m in length, designed to cater for up to 455kN compressive working loads. All piles were manufactured in Aarsleff's sister manufacturing facility Centrum Pile and were therefore tested and confirmed as structurally competent before delivery to site.

Aarsleff's Simon Cottingham commented, "This project went smoothly from beginning to end and we worked well with Wessex Water to ensure successful delivery on programme and within budget. Site preparation from Wessex Water meant that there were no delays and we could carry out a thorough probing exercise across all areas far enough in advance. We look forward to working together again next time round."

Aarsleff completed the piling work on the 24th September 2018.

Aarsleff Ground Engineering Ltd, is the UK trading arm of Danish contracting giant Per Aarsleff A/S, and is one of the UK's leading piling and geotechnical design and installation specialist contractors; actively promoting early consultation to ensure each scheme can be Value Engineered to give clients the best service, quality design, safety and value.

Aarsleff's strategy and philosophy of investment into the future has resulted in its wholly owned subsidiary Centrum Pile Ltd having the most advanced precast pile production facilities in the UK, producing segmentally jointed precast concrete piles to BS En12794 to Class 1A.

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