

thornham

Emergency Raw Rag-laden Sewage Over-pump with High Suction Lift

Exsel Pumps was called upon in an emergency to supply a system that covered the failure of an inlet screw to a sewage treatment works at Thornham. The set up required an emergency response due to forecasted inclement weather. During the installation however, a second of the three screws was also causing concern changing the scope of the supply due to the need to cover a higher flow condition. The flexibility of Exsel and its capabilities resulted in some quick decision-making and an alternative solution was put in place.

The suction lift was about 7 metres of raw rag laden sewage. But a submersible pump of the size required to handle the duty would not fit in the wet well area designated. Access for surface mounted pumps was limited such that they could not be placed close to the wet well to be pumped. The final solution involved the supply of two Betsy 8" (200mm) automatic diesel self-priming pumps on ultrasonic level controls for automatic operation.

Exsel's Betsy pumps also provide excellent fuel economy

Each of Exsel's Betsy 200 pumps supplied is capable of over 700 m³/h and a generated head of over 40 metres. The Betsy pump range incorporates the Hidrostal pump end for the unrivalled rag handling and excellent fuel economy providing a low whole life cost of hire without loss of performance. What was impressive on this application was the suction lift of nearly 7 metres and a suction length thereafter to the nearest possible pump location of about 20 metres.

The full installation was carried out by the Exsel Team utilising flanged steel and wire armoured pipework. In addition, Exsel supplied fuel management and spill kits as part of the scope of supply.

Whole life cost of hire

The cost of fuel on diesel pumps should not be underestimated and will be the highest portion of most hire contracts. Exsel utilise the Betsy range of pumps that provide an unrivalled fuel economy in some cases a saving of over £700 per week on a 6" pump versus the nearest competitor offering rag handling capability. Exsel also adopt automatic control as standard which provides even more fuel saving capability.



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