

Case Study

Presteigne Wastewater Treatment Works



Client:
Welsh Water

Principal Contractor:
Morgan Sindall

M&E sub-contractor:
Colloide

Location:
Presteigne,
Wales

Project:
Chemical Dosing

Colloide were contracted by Morgan Sindall for Welsh Water. The scope of the project was to provide a chemical dosing system to satisfy the phosphorus removal requirements on the Presteigne site in Wales.

Colloide supplied a 3m³ Tank 2 Pump System.

Chemical dosing is the adding of chemicals into water/fluid or sludge to achieve required conditioning and in this case Ferric Sulphate is used in removing phosphorus.

Technical information

The main components of the system

In Presteigne, the chemical dosing system operates efficiently with a structured setup comprising a fill point kiosk, chemical storage tank, and dosing kiosk.

The Fill Point Kiosk facilitates chemical delivery into the storage tank, ensuring precise introduction for efficient dosing. Equipped with multiple control and warning systems, it promotes smooth dosing.

The Storage Tank houses essential components, including fill and outlet pipework, overflow pipe, drain valve, vent, level transmitter, and pressure gauge.

The Dosing Kiosk accurately and safely dispenses chemicals, featuring dosing pumps, chemical storage tanks, a comprehensive control system with PLCs, measurement sensors, safety mechanisms such as leak detection and pressure relief, and user-friendly interfaces.

This integrated system ensures the reliability and effectiveness of the chemical dosing process in Presteigne.

