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CASE STUDY

Sykes Pumps Assists in Dewatering for New South East Reservoir Construction

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CASE STUDY

Sykes Pumps Assists in Dewatering Operations for New South East Reservoir Construction

A new Oxfordshire reservoir, South East Strategic Reservoir Option (SERSO), is under way, creating a major new investment in water security and water supply for the Southeast region.

Sykes Pumps was called to assist in the dewatering process of a large pond and surrounding floodplain to make way for the new reservoir.

The water needed to be pumped a distance of 350m to a designated runoff water course. Before discharge, the water needed to be treated in order to make it environmentally safe and regulatory compliant, meaning it had to have a PH level between 4-8 to meet the strict standards.

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1 CHALLENGE

Maintaining such a large distance of 350m introduced complexities to the project, including controlling the flow and turbulence of the water. These factors could directly impact the accuracy of our PH level measurements, therefore it was important that the flow of water was controlled.



2 SOLUTION

Sykes Pumps deployed a P3001V Sub Pump and PX12N Sub Pumps; high volume flow rate sub pumps suited for moving vast quantities of water.

The LC50 Lamella Clarifier, Polymer Dosing System and Water Treatment Monitoring System from our Sykes Silt Away range was used to treat the discharged water and monitor the PH levels. The PH levels were monitored using a live monitoring system, as well as using an additional settlement tank.

3 OUTCOME

We successfully pumped and treated the water from the floodplain and pond and safely discharged the water into the runoff course.

This has allowed for further ground testing to take place, confirming the area's suitability for a large reservoir to be constructed on it. As a result, the area has been green lit by local authorities and can now proceed with the next phase of the project.

This project is a significant milestone in regional water security planning.





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