



 0800 211 611



CASE STUDY

# Water Treatment & Dewatering Solution for a Major Infrastructure Project in the East Midlands

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CASE STUDY

# Sykes Pumps & Silt Away Supporting a Large Scale Infrastructure Scheme

When a major infrastructure project in the East Midlands required a long-term surface water management solution to support ongoing construction works and maintain environmental compliance, the Sykes Pumps and Silt Away teams delivered an integrated pumping and water treatment system to control pH, reduce Total Suspended Solids (TSS), and ensure compliant discharge into a nearby watercourse.



## 1 CHALLENGE

Our specialist team managed high volumes of surface water across an active infrastructure site while maintaining strict discharge consent limits for pH and suspended solids.

Severe rainfall during the first three months caused repeated flooding and sustained high inflows, requiring continuous pumping and treatment to protect excavations, maintain safe access, and avoid programme delays.

Automated monitoring and closed-loop controls were essential to identify and reprocess any non-compliant water before discharge.



## 2 SOLUTION

Our experienced engineers delivered a fully integrated solution designed for reliable long-term environmental compliance.

- 3 x **P3001V submersible drainer pump** managed fluctuating surface water volumes during extreme rainfall.
- **LC50 Lamella Clarifiers, Chemical Dosing and Polymer Dosing** systems treated water before discharge.
- **WMS Water Monitoring System** continuously tracked pH and TSS levels, automatically redirecting non-compliant water for retreatment.



## 3 OUTCOME

Despite extreme rainfall and repeated flooding events, we delivered a reliable pumping and treatment solution that maintained full site operations and environmental compliance throughout the scheme.

Strategic pump placement, resilient infrastructure, and automated treatment controls prevented excavation flooding, protected critical assets, and kept access routes operational during severe weather conditions.



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Sykes Pumps is here to support your operations with high-capacity pumps exactly where you need them.



Learn more



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Sykes Pumps is here to support your pumping needs across all industries. Speak to our specialist today!



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