



## Why choose us?

- Support you throughout the process to achieve full environmental protection
- Help you meet your sustainability goals, such as reducing water and energy use
- Full turnkey solution including maintenance and ongoing support

WCS Environmental Engineering is a part of the WCS Group, which has the in-house skills and expertise in place to deliver full turnkey solutions from influent to effluent, with the capability to close the loop with water reuse.

WCS Group forms part of Marlowe's grouping of water and air industry – UK leader in specialist services that ensure safety and regulatory compliance.

## Industrial expertise

WCSEE engineers are trusted throughout the industry, with extensive knowledge of a wide range of industrial sectors including:

- Food and beverage such as abattoir, consumer products and raw agricultural goods
- Waste management and remediation
- Mining and quarrying
- Engineering equipment and machinery
- Personal care and pharmaceutical

## CORE CAPABILITIES

- Can demonstrate lifetime value
- Proven process technologies
- Full turnkey capability
- Process engineering expertise
- Dedicated project management

## SERVICES

- Sampling, laboratory testing and survey by regional engineering technical sales
- Trial equipment to prove the technology before investment
- Emergency hire equipment to bring your site into compliance
- Chemical regime review and recommendations
- Customised treatment technologies based on site specific need
- Chemical supply guaranteed with our technologies
- Installation and commissioning
- Service and maintenance support
- Spare parts, including pumps, pH systems and tanks
- Dedicated account manager



### Activated Carbon Manufacturer, UK

#### Challenge

The membrane bioreactor (MBR) unit treating wastewater onsite at this production facility was producing excess biological solids, inhibiting the reactor's performance.

#### Solution

A Volute dewatering screw press was trialled to remove and dry the excess solids. A full-scale automated remote-controlled system was then designed, built, installed and commissioned, backed up by ongoing technical support.

#### Value

The MBR unit runs more efficiently, saving on energy and cost, performing at optimum levels and reducing operator intervention time. The risk of discharge quality failures has dropped to negligible levels and trade effluent costs have been reduced.



### Food Manufacturer, UK

#### Challenge

The site's existing effluent treatment plant was not meeting consent standards for discharge quality. As well as the risk of fines and prosecutions, the problem was costly due to the need for tankers to be deployed.

#### Solution

A dissolved air floatation (DAF) unit was trialled. Once the process was proved, engineers designed, built, installed and commissioned a permanent system to effectively treat the complete flow. Chemicals that produce a reduced strength effluent were also provided.

#### Value

The client is meeting discharge consents and the environmental regulator is satisfied with the solution. The biological system runs far more effectively and energy costs have reduced.



### Food Manufacturer, UK

#### Challenge

An ageing effluent treatment plant was taken over by the client and required a major overhaul. The system was operating out of compliance, had received numerous citations and was facing a final warning from its water company.

#### Solution

A 45ft trailer was designed, equipped and delivered to site for a rapid, turnkey installation. This comprised of a pipe flocculator, dosing system, DAF with white water system and screw press.

#### Value

Group environmental manager said: "Since upgrading our technologies and materials this treatment facility is operating with efficiencies not experienced in more than a decade, if ever."

