

## CASE STUDY



### Banbury STW—Thames Water PFT & SLUDGE AREA ODOUR CONTROL SYSTEMS



#### What was the problem?

Banbury Sewage Works had two existing odour control systems, The PFT System wasn't operational and the existing Sludge Area System had deteriorated beyond effective treatment of odour on the site.

Thames Water therefore had two existing assets unable to remove odour from the Sewage Treatment Works which caused complaints to the Thames Water Customer Service Team from the neighbouring residence.



#### How did OSIL approach the challenge?

When reviewing Thames Waters specification for the two new odour control systems, the existing footprints in which to place the new odour equipment had to be carefully thought through.

The old systems had been fixed to the existing concrete slabs for over 15 years so there was an unknown as to what condition the concrete base slabs would be in when the old redundant assets were removed.

Therefore, during the planning phase for delivery of the new odour systems OSIL allowed time for review of the existing concrete base slabs on site when the old systems were removed rather than delivering the new odour control equipment promptly after removal of the old systems . This review time then allowed OSIL to determine the extent of repair work required before installation work could progress with the new equipment.

There were also two existing local control panels that controlled the operation of each systems, these had to be carefully inspected to firstly see if they would comply with the latest framework standards and secondly if the control panels were suitable for re-use within the design of the new odour control systems. OSIL teamed up with approved supplier and control panel specialists TES Ltd to carry out these works.



## Delivering the Solution

Upon removal of the first existing asset (PFT Odour Control System) it was evident that the concrete base was not fit for purpose and was not suitable for the new odour control system. The concrete had simply eroded away and was not sustainable for a new installation.

OSIL and Thames Water agreed that a new base slab was required, and Thames Water brought in a specialist ground works contractor to cast a new concrete slab.

PFT Odour Control System



Sludge Area Odour Control System





## How did the Client win?

In total it took an OSIL site team of 2 to 3 engineers through the course of the project to carry out the installation of the new system.

The previously installed systems had deteriorated beyond repair with years of exposure to UV degradation without the effective materials that allowed for a long-term sustainable product with low maintenance required. The newly installed Biofiltration systems are all DW154 compliant and the LavaRok® media installed within the systems are guaranteed for a minimum of 25 years as long as they are maintained in accordance with the OSIL Operational & Maintenance Instructions.

It's really pleasing and motivating to deliver two new odour control systems that have a long-life expectancy with low maintenance requirements to ensure the asset operates as designed.

Through OSIL expertise in design & build of odour control equipment, the new odour systems guarantee a performance figure of 2,000ou/m3 at the stack, therefore rebuilding the trust between Thames Water and the local residents around Banbury. That trust and customer satisfaction is far more valued than any financial costs associated with the new systems.

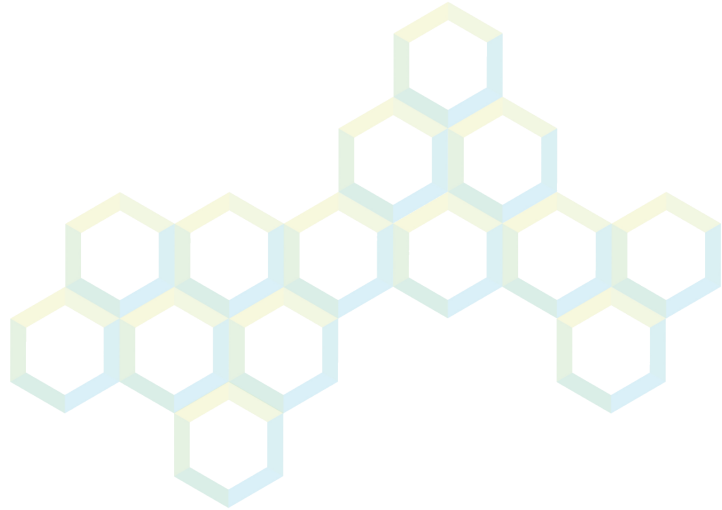


## Downloadable content

[OSIL Brochure](#)

[Service & Maintenance Brochure](#)

[LavaRok Media Data Sheet](#)



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