

CASE STUDY



Llanfoist WwTW – Welsh Water (Dwr Cymru) for ODOUR CONTROL FOR SLUDGE PLANT



What was the problem?

The existing system needed to be replaced.



How did OSIL approach the challenge?

Site surveys and design reviews enabled OSIL to provide the ideal system for effective Odour control at Llanfoist WwTW.



Delivering the Solution

The design of the Odour Control System consisted of:

- ⇒ 1 No. LavaRok® Biofilter with media
- ⇒ 1 No. CuCarb® carbon filter with activated carbon media
- ⇒ Duty/Standby fans
- ⇒ Field ductwork connecting to all available Odour Sources.
- ⇒ Stack 6m high from ground level, c/w supporting structure
- ⇒ Steel supports and access platforms
- ⇒ Commissioning, Testing and Training of operatives



Before Image:



After Images:





How did the Client win?

The project was completed within budget and delivered on time despite site delays associated with casting of the slab for the new Odour Control Units. OSIL reduced these delays by continuing with the installation of the field ductwork whilst waiting for the slab to be cast.

The Client now have a modern and efficient Odour Control System.



OSIL's Comments

Following the installation, the site was subjected to severe flooding which resulted in the client shutting down the OCU system. OSIL engineers visited the site and drained away any excess water. Safety checks and inspections were made to the fan motors and all the ducting, pipework and valves.

The LavaRok® Biofilter was reinoculated due to the fact that shutting down the system for a long period of time had resulted in the destruction of the Microbiological bacteria.

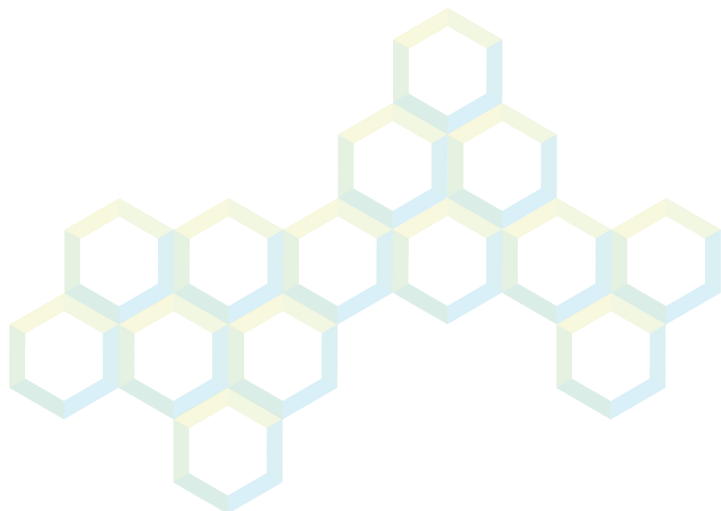
The system was reinstated and tested on the same day as OSIL's visit.



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