

CASE STUDY

# Oldham



## The issue

Deeper than normal tanks due to limited footprint

Two other sewage treatment works in Oldham and Royton were due to be diverted to the new Oldham site – resulting in an increase capacity and need for the site to be efficient.

Suprafilt were commissioned by main contractor Black and Veach on behalf of client United Utilities to provide a full fine bubble diffuser aeration system – including turbo blowers, tank manifold, tank heads, valves and diffusers.

To win a contract to overhaul the waste water treatment works at Oldham's sewage works, Suprafilt had to prove

that their diffusers would work effectively in deeper tanks than normal due to the limited footprint at the Oldham site.

The test results proved that Suprafilt's solution would work at the United Utilities site.



## The solution

### 'Serpentine tank' installed

The 7 lane 'Serpentine' tank, measuring 33m long and 7m wide with a depth of 7.4m, was tapered with three aeration zones in each tank.

The work was completed in stages between October 2018 and April 2019, upgrading four lanes initially to ensure the site was still live during the work.

The £905,000 package included 8,890 9-inch disc diffusers, which were fitted by Suprafil's installation team. All the pipework and fabrication were also carried out in-house by the experienced team.



The work has all been completed on site and tested and successfully dealing with the increased flow from the other sites.



## The result

### Rigorous testing

Rigorous testing in Barcelona helped to prove the competency of Suprafil's high efficiency diffusers.

## Summary

Suprafil demonstrated the value of their installations in deeper tanks through vigorous testing prior to winning the contract. To win a contract to overhaul the The work was completed in stages between October 2018 and April 2019, upgrading four lanes initially to ensure the site was still live during the work.