

PROJECT DETAILS

Client:

Southern Water, Broomfield Bank STW, Dover

Application:

Refurbishment of failing scrubber system

Scope:

Principal Designer and Contractor for removing the old system and designing, manufacturing, installing and commissioning the new OCU at this live, underground STW

Equipment:

- Two parallel scrubbers treating 76,500m³/hr air
- New scrubber vessels with associated recirc pumps and pipework
- Ductwork modifications
- Reuse of serviceable assets

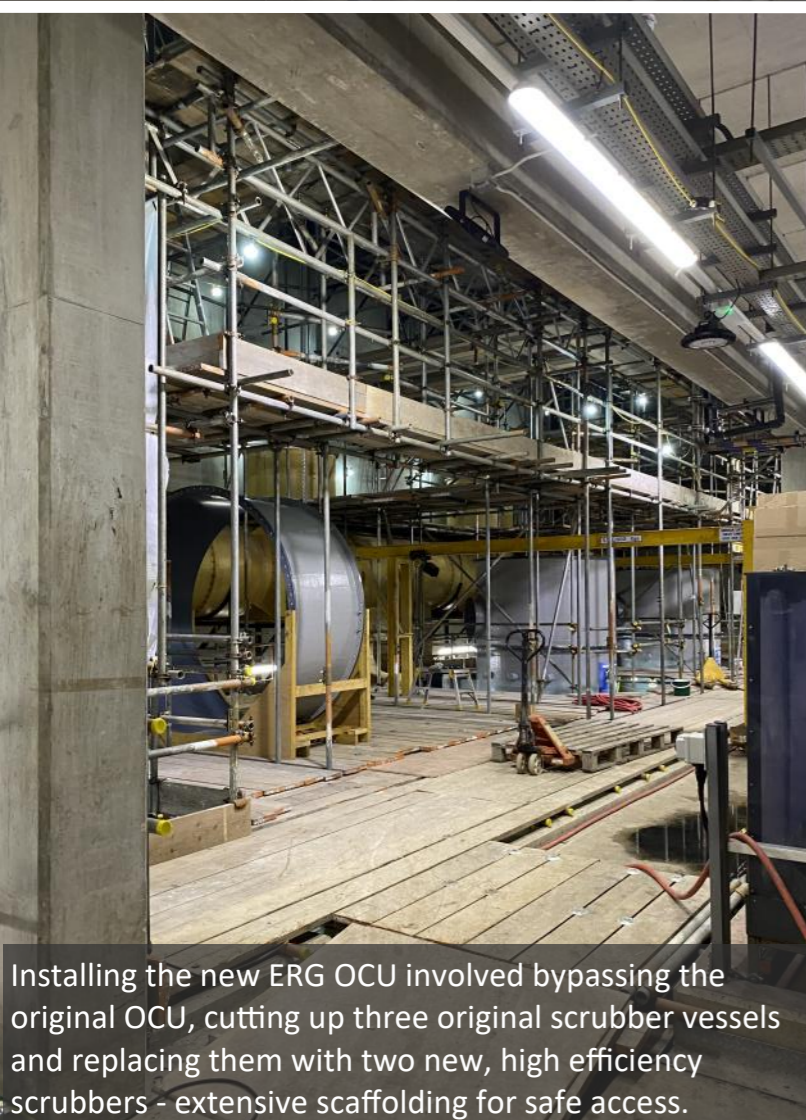
Year installed: 2022



The original OCU was inefficient, several scrubber vessels and a pump had mechanically failed and access to the area was restricted for Southern Water staff and contractors due to chemical leaks.



ERG's new scrubbers were manufactured in sections to suit the doorway into the OCU room in this underground sewage works and were designed to tie-in with the original ductwork connections.



Installing the new ERG OCU involved bypassing the original OCU, cutting up three original scrubber vessels and replacing them with two new, high efficiency scrubbers - extensive scaffolding for safe access.



The two new scrubbers are smaller than the original vessels and achieve the same treatment standard of <250ppb H₂S.



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