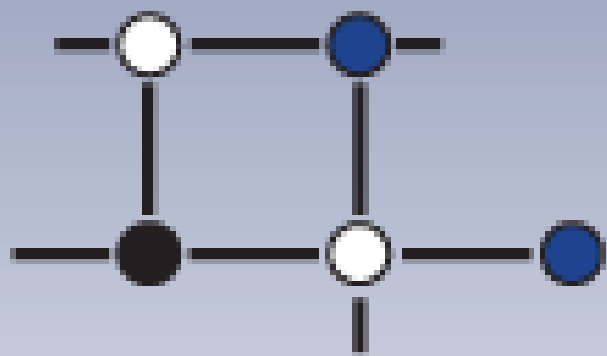


# Case Study

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## HADDINGTON WASTEWATER TREATMENT WORKS UPGRADE

Colloide Engineering Systems were contracted for the detailed M&E design, supply and delivery of 4no. rotating **half bridge scrapers** for two 16.5M primary settlement tanks (PSTs) at Haddington Wastewater Treatment Works in collaboration with Efficient Service Delivery (ESD) for Scottish Water. ESD acted as the main contractors and carried out the civil engineering works.

### Colloide's scope of works included:

- Central supporting structure to interface with existing concrete central support column.
- Bridge assembly complete with 1 No. fixed ladder and 1 No. automatic-closing swing gate located at the end-carriage.
- Sludge scraper system.
- Scum board.
- Scum removal system.
- Weir plates.
- Carriage assembly complete with heater(s), thermostat and snow plough.
- Drive unit complete with motor.
- Trailing cleaning brushes to clean the effluent launder channels and weir plates. Brushes are nylon and lightweight such that they can be manually lifted onto the bridge platform for inspection and replacement if necessary.
- Loss of rotation and Park position sensor.
- Catenary system to allow power, controls, e-stop and instrumentation cabling.
- Catenary wire support system for power, control and signal cabling from the centre column to the existing duct location including any support brackets and system.
- On-bridge lifting equipment.
- All electrical works on the bridge up to local Junction Box (JB) connections.

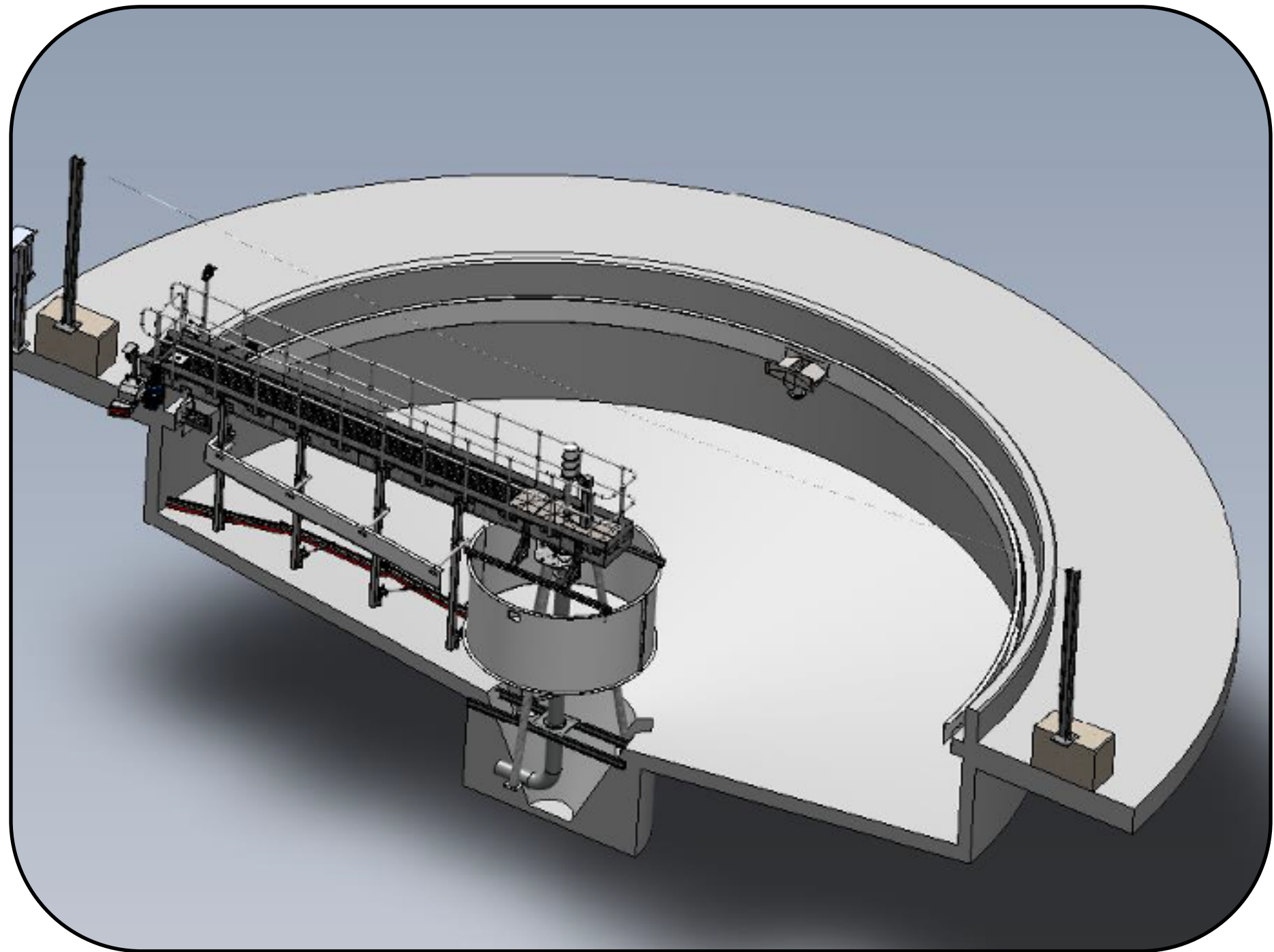


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# Case Study

## HADDINGTON WWTW ROTATING HALF BRIDGE SCRAPERS

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### General Project Info:

Haddington Sewage Works is situated to the north of Amisfield Walled Garden. Colloide's bridge scraper installations are part of a £3.8 million upgrade and maintenance project by Scottish Water and their alliance partners ESD. The work, which includes upgrades to the treatment process, will ensure that the works can continue to operate effectively now and in the future.

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