

The staff newsletter of AJ Engineering and NEWCo

## CARLISE TEAM WORK ON BOLTON WATERWORKS

**AJE is working on behalf JN Bentley for United Utilities who have started work on a £110m project to improve Bolton wastewater treatment works.**

AJE has been contracted to design, detail, fabricate, supply and install a new steel framework 134m long x 26m wide over the existing sludge plant lanes at the wastewater treatment works. The new structure will also incorporate raised walkways running the full length consisting of a primary walkway with goal post support frames for mechanical installation and two tertiary walkways. There will be a further 12 walkways spanning the width.

As part of its plans to improve the water quality in the River Irwell, United Utilities is making a number of changes to the site. This includes, to meet the growing demand from the Bolton area, increasing the capacity of the works to allow it to treat 20 per cent more wastewater. The increase in capacity will also reduce the amount of times that the storm overflow operates in periods of heavy rain.

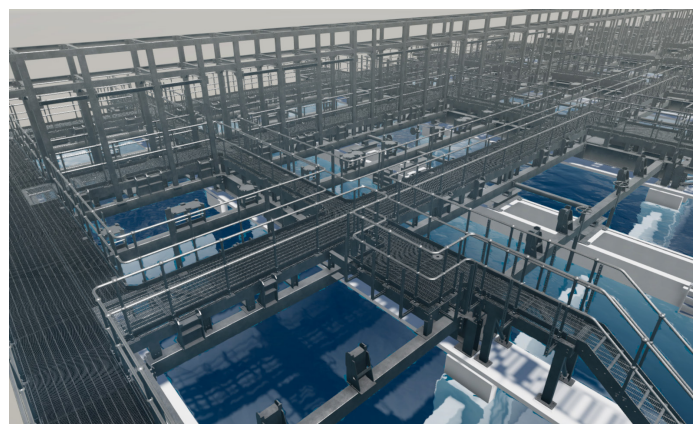
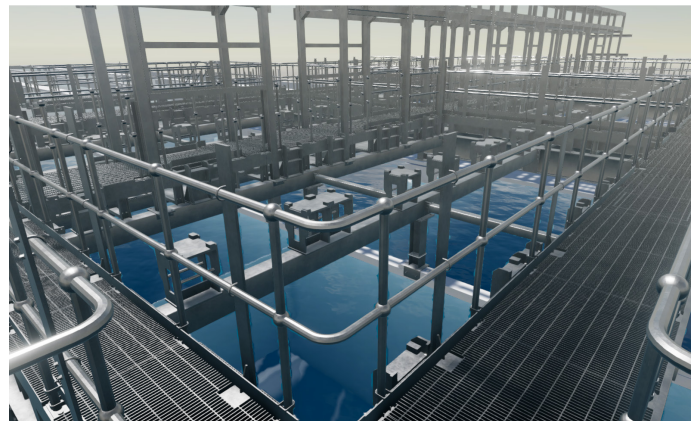
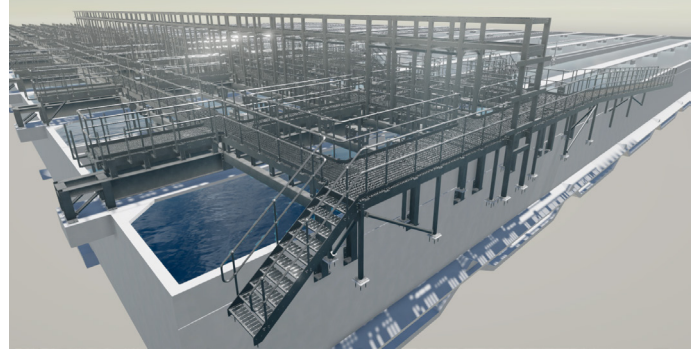
Leading on the project for AJE is Chris Roberts who is based out of the Carlisle office.

He said: "This is a large-scale project which has taken an enormous amount of detailing and planning. Working from a concept model over the last four months we have provided the structural design and detailing on a very complex upgrade confined by the parameters of the existing reinforced concrete structure and the new treatment equipment to be installed. The steel framework will support the new membrane aerated biofilm reactor system (MABR) to improve the ammonia removal at the works and provide access for future cleaning and maintenance."

He added: "We are delighted to have played an important part in co-ordinating the steel design and its development into manufacture. Our fabrication team have worked incredibly hard over the last couple of months which will continue into the early part of 2025. The first delivery of the fabricated steelwork was received on October 14, enabling our site teams to commence with the site installation."

Around 30 personnel in total from AJE have been involved in the project with the fabrication of the steelwork taking place at Waterford making full use of the cut and drill lines as well as the newly installed angle processing line which has played an exceptional part in getting the first steel started quickly and efficiently. It is expected that AJE's role in the project will be completed by next April.

The full improvements which also include major enhancements to the treatment processes at the works to use more innovative technology and a relocation of the of the storm overflow



The installation is now underway at Bolton.

outfall pipe will be operational by April 2025 with landscaping completed by the end of that year.

Further projects will take place at Bury and Rossendale wastewater treatment works that together with the works at Bolton will improve the water quality along a 47km stretch of the River Irwell.



# PIPE BRIDGE INSTALL GOES TO PLAN

The pipe bridge installation in Northumbria



**A 250-tonne crane has been used to install a large pipe bridge which was fabricated by the AJE team as part of the Northumbrian Water and Tees Valley Pipeline Project.**

The project on behalf of Farrans, is to provide a resilient supply of clean and clear water to customers for decades to come and the work carried out by AJE was completed smoothly.

Fabrication of the 25m long x 4.5m wide pipe bridge began in June. The structure was fabricated in two sections due to its length to allow for transport and was be

assembled on site at Alwent Beck on the River Tees.

A team from AJ Engineering worked alongside a team from Farrans, to make sure the installation of the pipe bridge went according to plan.

Project manager Kevin Smith, said given the scale of the pipe bridge, everything went smoothly.

“Clearly with a structure of this scale, there are logistical issues that need to be overcome, but that is what AJ Engineering excels in. The transportation of the pipe bridge went to plan as did the

installation of it. Whilst the pipe bridge is of considerable size, it was all in a day’s work for our teams.”

Northumbrian Water is improving the underground network of water pipes in the £100m project.

In total, 34km of new pipe will be installed. This project will have an integral role in providing resilience in the water supply in England.

It is the second notable project that AJ Engineering has done with Northumbrian Water being the end client, continuing its work in the UK wide water sector.

## LEE’S RUNS RAISES £1K



Lee Binks

**Pre-Construction Manager Lee Binks has recently completed the Great North Run and the Loch Ness Marathon raising around £1k for Macmillan Cancer Support.**

He completed the Great North Run on September 8 in 1 hour and 46 minutes and the Loch Ness Marathon which is sponsored by Baxters in 4 hours and 3 minutes.

Lee said: “I’d like to thank Graham and Alan for supporting my fundraising, both races were very different. The Great North Run which is a half marathon in Newcastle and is attended by around 60K people, whilst the Loch Ness Marathon is a lot smaller with about 4K runners and a lot more hills, I am grateful to everyone who sponsored my efforts and looking forward to a some more running challenges in the future.”

## NEWCO HELPS APPRENTICE GET IN GEAR

**A NEWCo apprentice has been given a hand to get in gear with his passion for stock car racing.**

Third year apprentice fabricator/welder Kyle Roberts has a passion for the sport after being inspired by his grandpa who once held the British and European champion titles.

NEWCo has been supporting Kyle with materials to help him maintain and race his 1300 Saloon.

The season runs from March to November and his latest races took place in the middle of October at Lochgelly Raceway in Fife.

Kyle said: “We had a pretty decent weekend. There were a few problems

with the car on the Saturday, but by the end of the day it felt good and I ended up qualifying in a really good place for the race on the Sunday. However, you have to race with an earpiece, and I had a malfunction with mine, so I wasn’t allowed to race in the end. Frustrating, but there’s always next time. However, I met some good folk and I have been invited over to the Isle of Man next year which I am excited about. Not a lot of people get invited over there, so I am grateful for that.”

Twenty-year-old Kyle added: “My next race is on November 9 at Lochgelly again and I am looking forward to it. I am thankful to NEWCo for the support they are giving me to help with the materials to ensure that the car is ready.”



Kyle Roberts with his car