



**ANCALA**  
WATER SERVICES

CASE STUDY

# Improving The Quality of Water Through our Capital Programme

## 01 THE BRIEF

At Ancala Water Services, **we are passionate about water** and providing the best quality of water supply to the sites we oversee. Over the course of the last 24 months AWS has been undertaking asset improvements across a site based in the South of England.

With the complex geographical landscape and ever-changing weather conditions on-site, AWS had a number of challenges to face when working with our supply chain on a proposed solution to enhance the quality of water on-site. We found that the quality of the untreated water was very susceptible to the changing weather conditions which created a challenging environment for our water treatment process.

As part of our Capital Works programme, a phased improvement project over a number of years has been completed improving the infrastructure on-site along with adding additional equipment to monitor the quality of water.

Initially, AWS focused attention on infrastructure and equipment improvements to help assist in managing the filtration of the raw water to site.

Within the second stage of the project, AWS investigated how water was being stored on-site and a full review was undertaken of the service reservoir tanks which were subsequently refurbished.

### TOPIC

Water Quality

### AIM OF THE PROJECT

To ensure the supply of wholesome water supply & improving the quality of water stored on-site.



Fig 1 – Refurbished SVR'S

As part of this asset upgrade project, the original Ultra Violet purification system was upgraded. We found that the original system had reached end of life asset condition grade and a new, state of the art system, was installed. The new system was significantly enhanced, having 4 individual UV lines and an automatic system designed to clean the quartz tubes inside the unit. This avoids the need to open the system and manually clean the equipment.



Fig 2 – Newly installed UV unit & system

## 02 THE SOLUTION

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Using Ancala Water Services knowledge of the site and our supply chain's expertise, a staged programme of improvements was developed. The first stage of this project was to build and commission a brand-new Water Treatment Works. This included all new equipment to filter the water, provide adequate disinfection and a consistent supply to our SVR's. This WTW incorporates a stand-alone GRP kiosk, a new UV system and trim dosing chlorine set-up to ensure that we have a stable free chlorine level in the potable supply.

The second stage was to refurbish and expand the SVR's on-site to ensure water was being stored to the highest possible standards.

## 03 THE RESULTS

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Following the completion of the project we have seen a significant improvement in the quality of water supplied to this site. This project showcases AWS's commitment for continued improvement and investment to ensure that **we do the right thing**.

c£750k

AWS improved water  
quality on-site

Total £ investment  
across upgrade project