

Since the early 1990s we have been involved at a local NHS Hospital looking after various water systems and items of equipment ranging from huge water softeners to district heating systems, and more recently looking after their domestic water services and water hygiene requirements.

Problem

Part of our responsibilities included undertaking an in-depth Legionella Risk Assessment, which revealed various non-conformances including issues with their large external water tanks.

It was reported that the 2 No. 20,000 lts CWS tanks had hollow supports and the tank also contained debris and so required cleaning. Both of these issues, if not dealt with, can promote the proliferation of bacteria leading to infection and place the building's occupants at risk.

Solution

Our sales team were quick to act and sourced the appropriate WRAS approved supports and submitted a proposal to install the new parts and then clean, disinfect and refill the tanks. The client accepted and our works began promptly.

In order to ensure the site had an uninterrupted water supply throughout the process it was necessary to work on one tank at a time.

Each tank was drained to carry out the remedial work to the supports, and all dirt and debris was removed using an aquavac.

On completion they were re-filled with clean water and a solution of Sodium Hypochlorite was introduced to give a free residual chlorine concentration of 50ppm, ensuring a thorough mix throughout.

On completion of the contact period the chlorinated water within the tanks was neutralised with Sodium Thiosulphate, drained again and re-filled ensuring all traces of the neutralising agent were completely removed.



External view of Tank 1

Conclusion

The client's representative was in attendance throughout, and the works were executed successfully and with no disruption caused to any of the people using the site.

The tanks are now compliant with the requirements of ACoP L8 and HSG274 and the client was very happy with the end result.

Case Study

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NHS Hospital

Tank 1



BEFORE ❌



AFTER ✅



Tank 2

