

Case Study

USLARHQ-4148.002

IXOM
WATERCARE

ResidualHQ® Automated Disinfectant Control

Low residuals solved with reliable disinfectant monitoring, management & delivery.

Topics: disinfectant residual, chloramine, tank mixing, nitrification



Left to right: the ResidualHQ® Automated Disinfectant Control System, storage building and elevated storage tank.

Location & Contact Information:

Further information may be available upon request. Please contact Ixom Watercare by phone at +1 866-437-8076 or by e-mail, watercare@ixom.com

Tank Overview:

Type: Elevated storage
Construction: Welded steel
Total Height (ft): 120
Bowl Height (ft): 20
Diameter (ft): 24
Volume (gallons): 200,000

Maximum Flow (gallons/day): 200,000
Maximum Fill Rate (gallons/minute): 700

Disinfectant Type: Chloramine

Pre-Deployment Conditions: This tank suffered from consistently poor disinfectant residuals (as low as 0.1 ppm) and nitrification issues due to low usage / low turnover.

Project Objectives: Manage and maintain desired disinfectant residuals.

Solution: One (1) ResidualHQ® Automated Disinfectant Control System with one (1) GS Series submersible tank mixer.

Results: Since the ResidualHQ® was placed into operation, the Customer is able to consistently maintain desired disinfectant levels and improved water quality.

See also performance graph from start-up on page 2.



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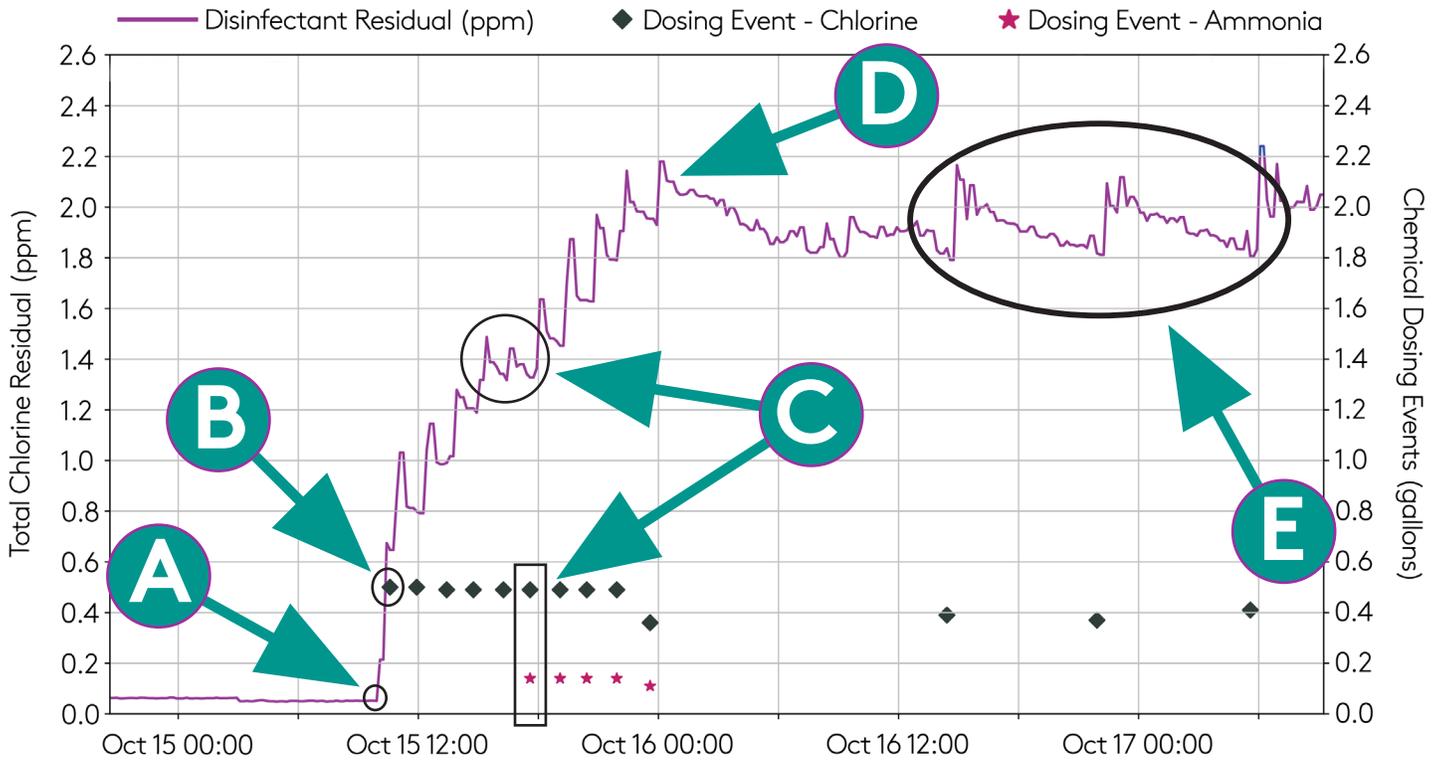
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ResidualHQ® Automated Disinfectant Control

Performance graph from the initial start up of the system.

ResidualHQ® Disinfectant Residual and Chemical Usage



- A:** Initial start up of the ResidualHQ®. First total chlorine measurements analyzed.
- B:** First chlorine dose event.
- C:** System recognizes total chlorine did not rise after a dose and switches over to chloramine to finish.
- D:** Desired threshold achieved and dosing is stopped.
- E:** Disinfectant residual is maintained between the desired and low threshold values.

About Ixom Watercare

Ixom Watercare helps Water & Wastewater stakeholders and their Consulting Engineers achieve reliable water quality improvement and compliance with premier technologies including MIEX® Ion Exchange Technologies, GridBee® and SolarBee® Mixing Solutions, and ResidualHQ® Automated Disinfectant Control Systems.

We have thousands upon thousands of installations and are an industry-leader solving water quality problems across the United States, Canada and the world.

Contact us today to discuss your water quality challenges.