CASE STUDY:
The City of Algonquin

USG WATER SOLUTIONS

Ensuring System Efficiency with an Asset Management Plan

How Algonquin Gained Control of Aging Water Infrastructure

Like many growing municipalities, Algonquin faced the challenge of managing multiple aging water storage tanks. One of the primary difficulties was determining which assets required immediate attention while building a structured, long-term maintenance strategy to keep the entire system operating at peak performance. Without a clear, proactive approach, the village risked accelerated deterioration, compliance concerns, unexpected costs, and potential service disruptions.

Recognizing these financial and operational risks, Algonquin sought a comprehensive solution to stabilize maintenance expenses, enhance water quality, and extend the lifespan of critical infrastructure. The Village joined USG Water Solutions' proactive asset management program, implementing a structured plan for inspections, cleaning, repairs, and long-term asset management. The partnership also introduced advanced water mixing systems, improving system efficiency and water quality. This proactive strategy ensured consistent maintenance across all tanks, enabling more predictable budgeting and reducing the likelihood of costly emergency repairs.





Project Summary

Customer:

Algonquin, IL

Type of Project:

Storage Tank, Rehab, and Asset Management

Mixing System for TTHM reduction
Chlorine Residual Control

Benefits:

- Proactive maintenance
- Water quality Improvements
- Budget predictability & stability
- Peace of mind

"The decision to partner with USG Water Solutions was not just about maintenance — it was about securing the future of their water infrastructure. Having peace of mind knowing that your city or village assets are being properly inspected and maintained is invaluable."

Jason Meyer, Chief Water Operator, Village of Algonquin

"With multiple aging water storage tanks in need of rehabilitation, we faced challenges in efficiently prioritizing which tanks required immediate attention and establishing a structured maintenance program."

Jason Meyer, Chief Water Operator, Village of Algonquin



Key Benefits

This proactive strategy delivers lasting value through cost savings, regulatory compliance, and extended asset life—helping ensure Algonquin's water infrastructure remains a reliable resource for its residents.

Improved Water Quality and System Efficiency

Beyond enhancing tank aesthetics, the addition of water mixing systems has reduced TTHM levels and helped maintain chlorine residuals for longer periods throughout the distribution system, strengthening overall water quality.

Proactive Maintenance and Budget Stability

With a structured program in place, the Village can distribute maintenance costs more evenly over time, making budgeting more predictable and minimizing large, unexpected expenses.

Long-Term Infrastructure Planning and Regulatory Compliance

"Being on the maintenance program ensures our tanks are regularly inspected and maintained. Partnering with USG Water Solutions has also positioned us to stabilize future budgets once all tanks reach a baseline condition," said Meyer.

Operational Peace of Mind

With USG Water Solutions overseeing maintenance, inspections, and repairs, Algonquin's water department can focus on other critical initiatives without the concern of unexpected system failures.

A Village That Plans Ahead for Its People and Infrastructure

Situated along the Fox River in northern Illinois, the Village of Algonquin is a thriving community known for its rich history, strategic growth, and dedication to maintaining high-quality infrastructure with a population of nearky 30,000 residents. Algonquin has successfully blended economic expansion with environmental preservation ensuring that its citizens enjoy a vibrant and sustainable community.

The Village has been recognized for its triple crown achievement in financial reporting. Maintaining a high standard of governement transparency and accountability. Infrastructure development remains a top priority with major investments in park improvements, road expansions, water system enhancements, and further strengthening its water storage and distribution system.

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