



AUTO SUDS WEST REDUCES OPERATING COSTS AND WATER USE BY 43% WITH MOLEAER NANOBUBBLE TECHNOLOGY

Customer: Auto Suds West

Dates:	Location:	Unit:	Key Results:
2025-2026	Pennsylvania	Neo N S2 O2	<ul style="list-style-type: none"> • 43% reduction in water use per vehicle • 1.9 million gallons of freshwater saved annually • \$22,832 reduction in annual water and sewer costs • 43% reduction in water and sewer expenses • Reduced risk of a \$55,000 municipal impact fee

The Challenge

Expanding Reclaim Water Use While Controlling Costs

Like many high-volume express car wash facilities, Auto Suds West already operated a reclaim system designed to capture and reuse water from the wash process. However, limitations in reclaim water quality restricted how much of that water could be reused throughout the wash tunnel.

As a result, the facility continued to rely heavily on freshwater in several stages of the wash process, including vehicle preparation. This kept water consumption and sewer costs higher than desired and created potential exposure to additional municipal fees tied to water demand.

With more than 100,000 vehicles processed annually, the Auto Suds West team began exploring ways to improve reclaim water performance so more recycled water could be used reliably throughout the wash process.

The Solution

Integrating Moleaer Nanobubble Technology into the Reclaim System

Auto Suds West partnered with Moleaer, the global leader in nanobubble technology, to integrate its nanobubble solutions into the facility's reclaim water loop.

Moleaer's technology generates trillions of nanobubbles that remain suspended in water and support improved water treatment and reuse processes within reclaim systems. By improving water quality and stability in the reclaim system, the facility was able to increase the use of recycled water across additional wash stages.



Implementation occurred in two phases:

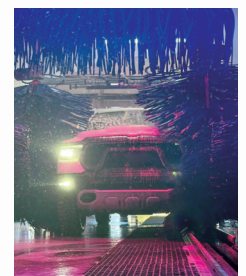
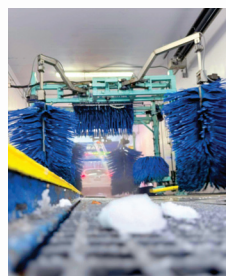
Phase 1: Partial Implementation

Nanobubble-treated reclaim water was introduced into several stages of the wash process while vehicle prep continued to use freshwater.

Phase 2: Full Implementation

Vehicle prep operations were converted to use nanobubble-treated reclaim water, further expanding recycled water use throughout the wash tunnel.

The system was integrated into existing infrastructure, allowing the facility to improve reclaim performance without major operational disruption.



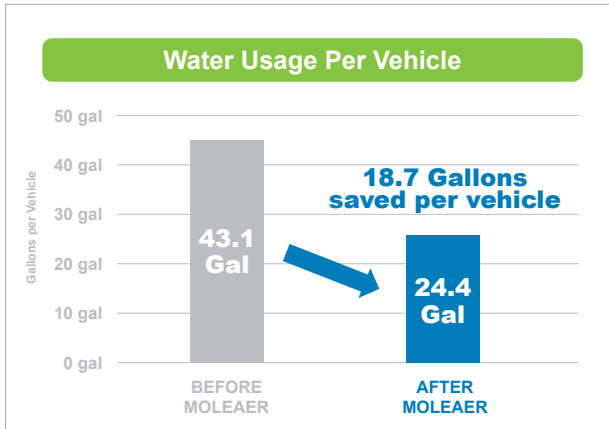


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Results

Immediate Water Savings

Following the integration of Moleaer's technology, Auto Suds West observed measurable reductions in freshwater consumption per vehicle.

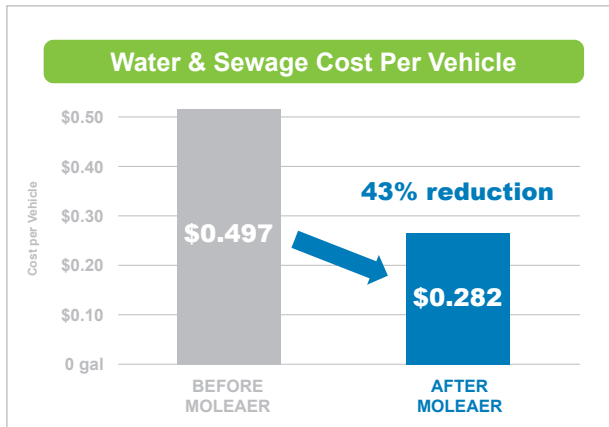


Overall, the facility achieved up to a 43% reduction in freshwater consumption per vehicle compared to baseline operations.

Based on the facility's projected throughput of over 100,000 vehicles per year, this reduction translates to approximately 1.9 million gallons of freshwater saved annually.

Lower Utility Costs

The reduction in freshwater demand also produced meaningful cost savings.



At the facility's projected throughput, these improvements resulted in a \$22,832 reduction in annual water and sewer costs and a 43% reduction in water and sewer expenses.

Reducing freshwater demand also helped the facility avoid the potential for a \$55,000 Equivalent Dwelling Unit (EDU) impact fee associated with increased water system capacity requirements.

"Making this change has been a great decision for us. The township has already recognized our improved water and sewer performance, and we're now operating below our EDU limit. We plan to keep reducing water use. It's good for our operations and it's the right thing to do."

— John Jernigan, Owner, Auto Suds West Car Wash.

Why Reclaim Optimization Matters for Car Wash Operators

Many car wash facilities already operate reclaim systems, but limitations in reclaim water performance can prevent operators from maximizing the amount of water that can be reused.

By improving reclaim water quality and stability, Moleaer nanobubble technology enables operators to expand the use of recycled water across additional stages of the wash process.

For high-volume operations, even modest reductions in water use per vehicle can translate into significant annual savings in water, sewer, and infrastructure costs.

The Auto Suds West project demonstrates how integrating nanobubble technology into reclaim systems can help operators reduce freshwater demand, lower operating costs, and improve the efficiency of water reuse while maintaining wash performance.



Learn How Leading Car Wash Operators are Optimizing Reclaim Water Systems with Moleaer Nanobubble Technology. Connect with Our Team to Evaluate Your Site.

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