



CO2 SYSTEM PERFORMANCE CASE STUDY



Pool Chemical Usage Reduction and Cost Analysis Following CO2 Installation

CUSTOMER OVERVIEW

Town of Queen Creek Aquatics and Recreation Facilities. The team oversees year round public pool operations and focuses on water quality, safety, and cost control.

BUSINESS CHALLENGE

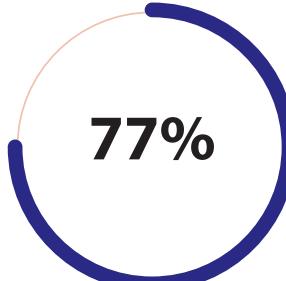
High chemical demand and fluctuating pH created operational inefficiencies. Large quantities of acid and sodium bicarbonate were required daily, increasing costs and reducing stability of water chemistry.

KEY RESULTS

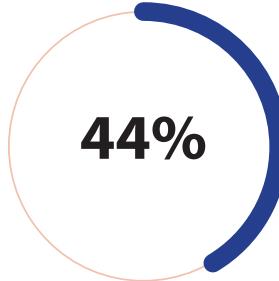
Before installation the facility used 68.55 lbs of sodium bicarbonate per day and 7.59 gallons of acid per day. After installation usage dropped to 15.53 lbs of sodium bicarbonate and 4.25 gallons of acid per day.



\$1,033.00
Monthly Net Savings



**77% Reduction in
Sodium Bicarbonate**



**44% Reduction in
Acid Usage**

RETURN ON INVESTMENT

The CO2 installation cost including initial fill was \$7,323.45. Based on current savings the estimated break even point is approximately 7 months.

METRIC	BEFORE CO2	AFTER CO2	REDUCTION
Sodium Bicarbonate	68.55 lbs/day	15.53 lbs/day	77 percent
Acid Usage	7.59 gallons/day	4.25 gallons/day	44 percent
Monthly Net Savings	N/A	N/A	\$1,033.00

CLIENT TESTIMONIAL

If you ever need a reference for a potential customer I will be more than happy to help out. Especially if they happen to be considering CO2 for an Aquatics application I can speak for the benefits and am more than willing to give a tour of our chemical feed systems.

Dwayne Lang - Facility Services Supervisor