

PROJECT PROFILE



Aqua Solutions (Aqua) engaged Brewer Construction Services (Brewer) to assess an existing pre-engineered steel building housing an outdated and vacant laboratory and administrative space. Aqua initially planned to utilize the building by making minor cosmetic improvements and came to Brewer to ensure the building was safe and structurally sound and would meet current code requirements.

The assessment revealed significant structural deficiencies and helped Aqua understand why, although seemingly more economical, they should not just make cosmetic upgrades. Aqua agreed with the assessment and decided to proceed with the project based on the design team recommendations.

The majority of the building was demolished including removal of the deteriorating building skin and replacement of damaged structural components. The structural upgrades included a support column, wind braces, reframing exterior windows, replacing windows, and bringing the building up to current code. The slab was saw cut for the installation of a new process waste system for the laboratory drainage and new sanitary waste system.

The building interior was completely redesigned and features a new state-of-the-art laboratory, administrative offices, breakroom, and restrooms. The laboratory is comprised of five six-foot fume hoods, including two green hoods, two laboratory grade filtration system halos, ultrapure water dispenser, and tanks at a specifically designed height and weight load for distilling and preparing solutions.

The new facility provides an efficient layout and safe operating environment to meet the needs of Aqua's growing business. The project was completed on time, within budget, and with zero recordable injuries.

AQUA SOLUTIONS, INC.

Solutions and Chemicals
Manufacturer and Supplier

QA/QC Laboratory and Administrative Offices
Project Delivery Method: Design Build
Expansion and Renovation
6,750 Square Feet
Deer Park, Texas

Cost: \$1.5 Million

PROJECT TEAM:

Architect: RS Architecture
Lab Design Team: Brewer Construction/Gray
& Green
Project Manager: Dennis Brewer
Estimator: Travis Brewer
Superintendent: Mike Cody
Safety Officer: Nathan Brewer



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