

VERRADO HIGH SCHOOL
Agua Fria Union High School District

Executive Summary

Verrado is a 220,000 square foot high school completed in 2006. Funding totaled \$136 million. Verrado is expected to be a LEED Silver Certified school.

Green Features

Verrado has many green features, including:

- Metered faucets and waterless urinals
- High efficiency indirect lighting with occupancy sensors and lighting controls
- Demand control ventilation
- Use of local materials such as brick and masonry
- IAQ feature

Results achieved include:

Water Efficiency: Efficiencies cut water use by roughly 23%.

Energy Efficiency: The school is 28% more energy efficient and savings of \$50,000 a year are expected.

Materials and Resources: About 85% of the building materials were found locally in the Phoenix metropolitan area.

Indoor Air Quality: We are now monitoring the CO₂ In the air.

Sustainable sites: The school incorporated daylight views into 75% of the site space

Innovation: The design incorporates a high efficiency central chiller facility with variable speed drives on chilled and hot water pumps

Savings: Our water efficiency savings in both the indoor (23%) and outdoor landscaping usage (50%) is the most impressive savings for a desert climate.

Benefits: We have used the “green” features of our school as teaching tools. Students are aware of the green building design and features and answer visitors questions about the building.

Advice: Have staff attend trainings on Green School design and energy efficiency.