

Arizona Best of 2006

Chaparral Water Treatment Plant

Civil/Infrastructure Project



The \$57 million Chaparral Water Treatment Plant Project is located along the Indian Bend Wash in Scottsdale. The facility was designed to treat 30 million-gal. per day of raw water from a nearby SRP Canal and distribute the drinking water to residents in south Scottsdale. The treatment system consisted of three raw water strainers, a primary microfiltration system, a granular activated carbon (GAC) filter system, a 5 million-gal. concrete reservoir, chemical feed systems, distribution pumps, solids handling facilities, and an administration facility. Due to the fact that the new plant was located within a residential area, Black & Veatch designed a facility with the ability to share the neighborhood by surrounding the plant

with architectural features, social gathering centers, water features, walking paths, public restrooms and a dog park.

Exterior to the plant operation and process, the Chaparral Water Treatment Plant is wrapped with two-tone stained split-face masonry block, wire & rock gabions, architectural steel panels, tensile shade structures, decorative concrete site walls, stone walking paths and numerous public amenities.

Submitted by: Archer Western Contractors

Owner: City of Scottsdale

Design: Black & Veatch Engineers

General Contractor: Archer Western Contractors



Major Subcontractors: KSK Electric; Mechanical Maintenance; Rhino Masonry; All Metals Fabrications; Cochran Painting; Powers Steel; Atlas Fire Protection; Aidant Fire Protection; Specialty Contractors; GTE Metals; Fabritech