The Cochise WATER PROJECT

Pueblo del Sol Country Club

The Pueblo del Sol project installed a rainwater harvesting system that would utilize their tennis courts and a portion of an adjacent roof area as our collection surfaces.

2013 Projects

Pueblo del Sol Country Club

Reduce water drawn from the aquifer by 168,000 gallons

5% Reduction in Turf Area Water savings- 20 Acre Ft per year.

Solved a flooding problem

This stored rainwater will be used to irrigate a major portion of their annual irrigation needs around the country club building and the parking lot landscaping. This renewable rain water system will take the place of currently used Pueblo Del Sol Water Company water. Our plan utilized a number of local businesses to construct a 30,000 gallon rain water harvesting system using the tennis courts and portion of the golf cart/locker room building. These two surfaces give us 15,213 square feet of surface area. One inch of rain would produce 9,120 gallons or 129,504 gallons per year. Using the current formula from The Cochise Water Project the 30,000-gallon tank would have the capability to reduce water drawn from the aquifer by 168,000 gallons per year. Oasis Rainwater Harvesting, working with South West Desert Images installed a 1,000 gallon below ground concrete cistern so that all rain water will enter this tank through a pre-filter basket strainer. One pump inside this cistern, with a capacity of 279 gallons per minute (16,390 gallons per hour), will transfer water up and to a nearby 30,000 gallon Pioneer Galaxy green metal tank. A pump inside the storage tank produces needed pressure to run the drip system. A transducer inside the tank will keep check on the water level. Once the water gets to a pre-set low level, this will trigger a master valve to open, supplying existing Pueblo del Sol water pressure to the irrigation system until such time that rain water enters the tank where it will automatically switch back to using rain water. A water meter will be installed on the rain water system so we can keep track of the percentage of rainwater used over the course of a year.

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