

# PROJECT PROFILE

## RESERVE AT PARK TEN

### Atlantis Raintank Water Harvesting System

HOUSTON, TX

#### PROJECT BACKGROUND

Houston's Energy Corridor is quickly becoming the LEED Mecca for the Gulf Coast due to its impressive mass transit plan and miles of biking trails that lead to many of the larger businesses in the area. This 10 mile stretch along IH 10 on Houston's West side includes over a dozen green buildings, including British Petroleum's LEED Platinum facility. With multiple LEED points up for grabs, many the bi-products of the improvements made to this area, it makes sense that WoodCreek Development chose to design and build their new mixed use office complex to the LEED Silver standard.

#### THE BUSINESS CASE

When TBG Partners, a well known Houston landscape architecture firm, was approached to help design a sustainable landscape, the first thing that came to mind was reducing irrigation consumption. Above ground cisterns were an option, but to store over 10,000 gallons of water would have required large, unsightly, metal cisterns for which there simply wasn't room on the site. The majority of rain water is captured below ground in an Atlantis Raintank water harvesting system; however, in an effort to educate the public about water harvesting, a small, above ground cistern was utilized in a fountain area that catches a small fraction of the roof runoff.

#### WHY MODULARITY MATTERS



Modularity in an underground rain water harvesting system is essential to both the designer and the contractor, as it allows for flexibility for the potential obstacles that can be encountered during construction. On Reserve at Park Ten, excavation revealed a concrete-encased 480 volt electrical line running diagonally through the space. An on-the-fly field change was made to avoid this obstacle, reducing

the triple module Raintank system in the area under the electrical line to double modules, saving both time and money. Any other storage system would have required extra excavation, the return of materials, and weeks of delays.



**Owner:** WoodCreek Development Company  
**Architect:** Arcon Architects, Inc.  
**Irrigation Consultant:** Dan Pope Irrigation Consultant  
**Landscape Architect:** TBG Partners  
**Contractor:** Kingham-Dalton-Wilson  
**Landscape Contractor:** Blue Grass  
**Harvested Volume:** 10,000 GAL  
**Completion:** December 2008

#### About Raintank

The Atlantis Raintank System is a modular storage system that can be used for detention, rainwater harvesting, or ground water recharge. The Raintank's modular design and compact footprint makes it ideal and cost effective for all types of applications.



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## Raintank Water Harvesting System

15721 Park Row Dr.

Houston, Texas 77084

**100%** Reduced Irrigation

**100%** Recycled Material

**100%** Green

## PROJECT TEAM

### Design Team

Landscape Architect

TBG Partners

Architect

Arcon Architects

### Construction Team

General Contractor

Kingham Dalton Wilson

Landscape Contractor

Blue Grass Maintenance



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