**THE WATERHUB® AT EMMORY UNIVERSITY**

The WaterHub® at Emory University, Atlanta, GA, is an on-site, campus-wide water reclamation system on Emory University’s main campus. The WaterHub utilizes eco-engineered processes to treat up to two-thirds of campus wastewater for beneficial reuse. This system provides an alternative supply of clean water for heating and cooling operations as well as toilet flushing, creating a more resilient campus.

The WaterHub reduces Emory’s draw of potable water by up to 146 million gallons annually—displacing nearly 40% of total campus water demand. Moving the field of water reclamation forward, the system has the potential to change water management in numerous industries from college campuses to industrial plants.

**WATERHUB PROJECT OVERVIEW**

The first of its kind to be installed in the United States, the WaterHub is an on-site, campus-wide water reclamation system on Emory University’s main campus. The WaterHub utilizes eco-engineered processes to treat up to two-thirds of campus wastewater for beneficial reuse. This system provides an alternative supply of clean water for heating and cooling operations as well as toilet flushing, creating a more resilient campus.

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**PROJECT INNOVATION**

The WaterHub model provides a unique and innovative approach to both water and wastewater management for large wastewater facilities.

A New Model of Water/Management: Decentralized Water Reclamation

The WaterHub utilizes a concept called decentralized water reclamation and reuse through seven key steps to provide on-demand water resources, via a co-located water treatment facility, to meet seasonal and typical water demands on-site.

New Applications of Innovations, Ecological Treatment Technologies

The WaterHub utilizes an ecologically-based treatment system that provides numerous benefits by mimicking natural approaches to water treatment. These benefits include lower energy footprints, more efficient biological digestion/degradation of organic matter, and better aesthetics.

Project Implementation through a New Project Finance Method

Financed through a Water Purchase Agreement (WPA), the first WaterHub project was engineered and constructed using upfront capital expense to the University.

**RESULTS**

Since commissioning in May 2015, the WaterHub has processed over 150 million gallons of water. Additionally, the WaterHub provides a number of economic, environmental and social benefits to the University and broader community:

- **Conserves up to 146 million gallons annually**
- **Reduces water discharge by up to 65%**
- **Millions of dollars in savings over the next 20 years**
- **Provides a redundant water supply in case of municipal failure**
- **Provides a living, learning laboratory for immersion learning**
- **Provides a platform for water-related research and outreach**

**THE WATERHUB SYSTEM BENEFITS**

**SUSTAINABILITY**

- **Reducing the University’s environmental impact**
- **Conserving water and energy**
- **Improving the built & natural watershed**
- **Maximizing recycled water use on-site**
- **Public & Private Universities**
- **Military Bases**
- **Commercial Mixed Use Developments**
- **Food & Beverage / Pharmaceutical / Biotech**
- **Industrial Manufacturing**

**FINANCIAL**

- **Assumes all development & construction risk**
- **Offers millions of dollars in lifecycle savings**
- **50 ECO-ENGINEERED WATER RECLAMATION SYSTEMS**

**CONSTRUCTION & FINANCING**

- **STRENGTHS**
  - **Superior construction quality**
  - **Ongoing skilled labor**
  - **Superior engineering through facility operations**

- **MODELS**
  - **Design-Build**
  - **Design-Bid-Build**

- **TIMELINES**

- **APPLICATION PROCESS**
  - Visit: sustainablewater.com
  - Fill out online application form
  - An interview call will be scheduled with the nomination contact
  - A water balance & preliminary feasibility will be performed at no cost

**TO LEARN MORE ABOUT THE WATERHUB, VISIT:**

WWW.SUSTAINABLEWATER.COM

**EDUCATION & COMMUNITY ENGAGEMENT**

In addition to its functional use as a water reclamation facility, the WaterHub is designed as a living, learning laboratory to enhance the University’s academic environment. With built-in lab spaces and easy access ports for water quality testing, the facility enables research in a number of disciplines and is used as an immersive learning tool to enhance curriculum. Emory’s faculty has integrated new curriculum into the facility, and the WaterHub is expected to bring additional research funds and enable the University to qualify for new grants in the future.

- **Nearly 300 tours conducted since Spring 2015**
- **Graduate students are utilizing the WaterHub for water quality research**
- **Emory journalism students have used it as the subject of podcasts and articles**
- **Gina McCarthy, Administrator for the Environmental Protection Agency, toured & praised the WaterHub**

**THE EMORY UNIVERSITY WATERHUB ISN’T A TYPICAL TREATMENT FACILITY. IT FILTERS WASTEWATER THROUGH PLANT ROOTS AND MICROBES TO CLEAN UP ORGANIC MATERIAL. A MODEL FOR US ALL.**