



**SERVING FLORIDA'S  
WATER & WASTEWATER INDUSTRY  
SINCE 1987**

- Our business is built upon relationships.
- Customer satisfaction is earned.
- Integrity is a choice.

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**SIEMENS Provides Odor Control at JEA's Arlington East WWTP**

Jacksonville, FL

**SIEMENS** recently completed the official start up of one of two new odor control systems at JEA's Arlington East WWTP.

The first of the two systems is a dual tower, biotrickling filter rated at 11,000 CFM.

This project was engineered and designed by Hazen & Sawyer and the General Contractor that installed the system was Reynolds-Meadors Construction of Jacksonville, FL.

The **SIEMENS** biotrickling filter (BTF) is specifically designed for odorous air streams with higher air flow requirements. Additionally, the specific systems at JEA are designed to handle high levels of incoming hydrogen sulfide.



Inlet hydrogen sulfide levels registered during performance testing were as high as 550 ppm. Discharge levels of hydrogen sulfide registered less than 1 ppm using a Jerome meter, so removal efficiencies were as expected and greater than 99.5 %.

**SIEMENS** manufactures a full line of odor control systems for municipal wastewater applications. Biotrickling filters, biofilters, chemical scrubbers, and skid-mounted carbon adsorptions systems are all available through the RJ Environmental division of **SIEMENS** located in San Diego, CA.

**SYNCROFLO provides booster pump station for VA Hospital in Gainesville, FL**



**SyncroFlo** of Norcross, GA recently provided the potable water booster pumping

station at the VA Hospital in Gainesville, FL.

The Veteran's Administration is in the process of expanding hospitals and rehabilitation centers throughout the United States.

A key part of the expansion at the hospital in Gainesville was an upgrade to the

drinking water system.

The engineer for the project turned to **SyncroFlo** for solutions when it was determined a booster pump station was required. **SyncroFlo** of Norcross, GA provides custom designed pumping stations for potable water and effluent reuse applications.



**Flat Aluminum Anoxic Tank Covers**

“We make a living by what we get, but we make a life by what we give.”

*Sir Winston Churchill*

## HALLSTEN Aluminum Tank Covers at Hillsborough County NWWRF

Tampa, FL

**HALLSTEN CORPORATION** manufactured & installed flat aluminum tank covers at Hillsborough County’s NWWRF.

Odor control was a key portion of the overall design developed by the project engineer, Greeley & Hansen.

It was determined that the anoxic tanks adjacent to the facilities headworks would be a point of release for nuisance odors.

The flat aluminum covers are designed for human access to support the dead weight of the structure plus a live load of 50 pounds per square foot of surface. The structural components are designed to support a 400 pound load on a 6” X 6” area.

The **HALLSTEN** covers were also designed in accordance with the Florida Building Code CAT IV Hurricane Windload Requirements.

During design, the engineer

determined the surface area of the covers needed to be factored into the stormwater runoff requirements on the project, and that adequate volume was not available in the stormwater retention ponds.

**HALLSTEN** met the challenge by designing an integral gutter system with the cover. Rainwater is channeled to the gutter system along the perimeter of the cover where it is collected and routed into the wastewater treatment plant.

## FWEA Air Quality Committee Presents AIR QUALITY WORKSHOP

Orlando, FL

The **FWEA Air Quality Committee** conducted a hands-on Odor Control Workshop in the 4th Quarter of 2009. The event was hosted by Orange County Utilities at the South Water Reclamation Facility on Sand Lake Road in Orlando.

Experts from throughout the country shared their odor control expertise. Dick Pope P.E. of Malcolm Pirnie spoke about

problem identification and gathering test data. Colin Groff P.E. of JEA discussed liquid phase treatment and options. Ravi Bandi of CDM spoke about vapor phase options. Gayle VanDurme P.E. of Black & Veatch shared his wisdom about performance testing, and Vaughan Harshman P.E. of SIEMENS discussed various approaches to specification writing.

This is a bi-annual event in Florida with the purpose of

furthering knowledge in the area of odor control.

CEUs and PDHs were provided for those attending the event.

All technical presentations from this event are available on the FWEA web site by visiting the Air Quality Committee web page.

The **Air Quality Committee** is very thankful to Orange County for hosting this event.

## AMWELL Clarifiers, Weirs & Telescoping Valves



**AMWELL Clarifier**

**AMWELL**, a division of McNish Corporation is located in Aurora, IL. **AMWELL** was originally known as *American Well Works* which was established in 1868.

**AMWELL** manufactures a full line of circular clarifiers. If you are looking for a suction type clarifier or for a pier-supported solids contact clarifier, **AMWELL** has your solution.

**AMWELL** also manufactures

single or double-sweep scrapers and standard or spiral flights.

**AMWELL** also provides a complete line of rectangular chain and flight clarifiers along with manual or gear operated slotted pipe surface skimmers.

Do you need decanting capability within your sludge digesters to assist in sludge thickening? **AMWELL** manufacturers rack & pinion

or non-rising stem telescoping valves for these applications.

With **AMWELL** you can count on generations of experience and American-Made products.

A complete engineering binder from **AMWELL** is available upon request. Please contact the home office of **EQUIPMENT PLUS SOLUTIONS** and we’ll get one into your hands.

*Call us TODAY!*

## FOURNIER Rotary Press Used for Mobile Dewatering

Bradenton, FL

Fournier Industries provided a two channel Rotary Press for a mobile dewatering company in the State of Florida.

The owners of the company approached Fournier and asked them to provide a mobile dewatering system which included a two channel Rotary Press, the polymer feed system and fully automated controls inside a shipping container. They wanted it provided as a completely prepped and pre-

wired system.

The owner mounted the containerized Rotary Press on an industrial grade trailer. It is towed to various plant locations with the company's dump truck where they dewater the sludge on site. The dewatered sludge is loaded into their dump truck for hauling and disposal.

As fuel costs continue to climb to unprecedented levels many utilities and haulers are finding themselves confronted with extremely high

sludge hauling costs which obviously affect their bottom line. Mobile, on site dewatering is the best way to provide relief to high hauling costs.

The Fournier Rotary Press is a proven solution for sludge dewatering.

This system can also be used to dewater combined septage and grease trap waste.

Call us today to arrange a visit to a Florida installation.



**FOURNIER Rotary Press**



## Combined Solutions for Odor Control

Containment of odors is the first step to treatment of sewage related off gases.

At **EQUIPMENT PLUS SOLUTIONS**, we are able to provide combined solutions for odor control applications.

**HALLSTEN CORPORATION** provides aluminum tank covers for containment of odors in headspaces and wastewater plant tankage where odors are generated. Many anoxic and fermentation tanks require

covers to contain odors.

**SIEMENS** provides the means of treating the odor laden air pulled from within the headspaces in these applications. **SIEMENS** odor control systems can be as small as 50 CFM air flow and as high as 20,000 CFM and beyond.

The RJ Environmental division of **SIEMENS** manufacturers a complete line of odor control system options from biofilters to traditional chemical

scrubbers and carbon adsorption systems as well as carbon replacement for existing carbon systems.

We can assist with comparison of technologies and O&M costs.

**SIEMENS** also provides a complete line of liquid phase treatment for control of odors within collection systems.

Please call us today and let us assist you with solutions.



## BLUE WATER TECHNOLOGIES—Salsnes Filter for Influent Screening

The Salsnes Pretreatment System is a self-contained, self-cleaning rotating belt sieve used to filter influent raw sewage. Video footage and animation clips showing how the unit works are on the **BLUE WATER TECHNOLOGIES** web site.

Performance of the unit mimics a primary clarifier while only requiring 10% of the space.

The Salsnes can feed the removed TSS and BOD to an anaerobic digester in a thick-

ened liquid form or it can convert the removed TSS, FOG, and BOD<sub>5</sub> to a 25-40% solids cake which is typically disposed of with prescreenings.

The Salsnes provides the added benefit of ultra fine screening and grit removal without the added unit processes. It can be used to enhance MBR performance long term by controlling plant loading and removal of fine particles such as human hair.

This system is provided as a complete, self contained unit in a 316 SS vessel which is ready to be set in place and connected.

Industrial applications which are subjected to sewer discharge surcharges due to excessive TSS and BOD levels can especially benefit from the usage of this unit. When surcharges are involved, a return on investment can be easily calculated to show you how the Salsnes can actually pay for itself.





Visit us on the web at:  
[www.equipmentplusinc.com](http://www.equipmentplusinc.com)

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We value your consideration of  
**EQUIPMENT PLUS SOLUTIONS, INC.**  
and welcome the opportunity to be of service to you.

Please take a moment and visit our web site.  
You'll find direct links to the companies we represent  
as well as information and links to our offices.

We stand ready to assist you—we're just a phone call  
or an email away.

**BLUE WATER TECHNOLOGIES, INC.**  
*Tertiary Filtration Removing Phosphorus, Nitrogen, & Mercury*

**BLUE WATER TECHNOLOGIES, INC.** of Hayden, Idaho provides phosphorus, arsenic, mercury, and nitrogen reduction systems for wastewater effluent.

The technical foundation for **BLUE WATER TECHNOLOGIES'** products is rooted in the research of Professor Greg Moller, a well respected name in the field of water toxicity and water treatment, with the assistance of Dr. Remy Newcombe.

The initial work on the **BLUE PRO** technology was conducted at the University of Idaho and was sponsored by the Environmental Protection Agency (EPA) and other U.S. government agencies.

**BLUE PRO** is defined as a moving bed, active filtration system and was developed to remove phosphorus, arsenic, mercury and various other contaminants from drinking water or wastewater.

**BLUE PRO**, an innovative, simple-to-operate, patent-pending technology, is more cost-effective and efficient than competing technologies such as adsorption, ion exchange, enhanced coagulation, and coagulation micro-filtration.

The **BLUE NITE** process is tertiary filtration system that can be added to an existing plant to effectively reduce total nitrogen (TN).

**BLUE WATER TECHNOLOGIES** has a wealth of information available on these processes, to include a number of detailed technical papers which have been presented at national water and wastewater symposiums and educational venues.

*Find the link to*  
**BLUE WATER TECHNOLOGIES**  
*on our website listed above.*



**Blue PRO Filter**  
for Phosphorous Reduction