

**REGION XII'S**

# Next Meeting

**DATE : OCTOBER 17, 2019 6:00 PM - 8:00 PM**

**On-Line Registration**  
**Register by 10/14/2019**

**HOST & SPONSOR: Odyssey Manufacturing Co. Tampa**

1484 Massaro Blvd  
Tampa, FL 33619

**I**s the leading supplier of disinfection solutions to the industrial, municipal, and aquatic markets in the State of Florida. Providing not only chemical solutions, such as Odyssey's Ultrachlor Sodium Hypochlorite and low impurity salt, while also selling on-site sodium hypochlorite generation (OSHG) equipment, feed system equipment, chemical storage tanks and equipment, water storage tank mixers and odor control systems. Technical assistance for almost all water treatment chemicals being used today can be provided.

Six locations in Florida to serve you!

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Delivering, Ultrachlor Sodium Hypochlorite Bulk Supply - Gas to Liquid Chlorine Conversions - Chemical Storage Tanks - Chemical Feed Systems - Water Plant Tank Mixers - On-Site Sodium Hypochlorite Generation (OSHG) Equipment - Biological and Chemical Odor Control Systems - And more!

**T**hank you Odyssey for providing a Barbecue dinner, a place for our Business meeting and, they will give Plant Tours immediately after the meeting!

**PLEASE REGISTER** for this meeting!

It helps with Sponsors planning for door prizes, food and drinks!



## **What The Heck is That?????**

Take a look at this picture. Have you ever seen one of these? Do you have a guess? Bring your answer to the NEXT MEETING and you could win **BAM!** That's **Bumming Around Money!** All correct guesses are put in a hat, and the winner drawn at random will win **\$25 U.S.**

## Sponsors of Region XII

### **Evoqua Water Technologies**

Evoqua Water Technologies is the global leader in helping municipalities and industrial customers protect and improve the world's most fundamental natural resource: water.

We have a more than 100-year heritage of innovation and industry firsts, market-leading expertise, and unmatched customer service

**Contact: Charles Maltby**

**Technical Sales Representative  
Evoqua Water Technologies LLC  
2650 Tallevast Rd.**

**Sarasota, Florida, 34243; USA  
Telephone/Mobile: (941) 586-8813**

### **Edward Jones Investments**

#### **Making Sense of Investing**

As an Edward Jones financial advisor, I believe it's important to invest my time to understand what you're working toward before you invest your money. It's also important to understand the level of risk you're comfortable accepting when investing so we can balance it with the steps necessary to reach your long-term goals.

**Contact: Sanjay Anderson**

**[sanjay.anderson@edwardjones.com](mailto:sanjay.anderson@edwardjones.com)**

**(813) 373-6825**

### **Electro Mechanical South, Inc.**

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We were the first motor repair shop in Florida to offer a Two (2) year warranty on our

rewinds, a tribute to our process and material selection. We maintain an "Environmentally Friendly" business model. We have developed a reputation as being problem solvers, rather than repeating the same behavior and expecting a different result. service is truly a 24 hour per day/ 7 days a week 52 weeks a year to accommodate our customers doing their business.

**Contact: Ric Romanoff**

**[rromanoff@ems-fl.com](mailto:rromanoff@ems-fl.com)**

**(800) 925-9EMS (9367)**

### **Quality Water Services**

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**Contact: David Stevens**

**Owner/Lead Operator**

**(813) 205-1045**

**Email: [QualityWaterServices1969@gmail.com](mailto:QualityWaterServices1969@gmail.com)**

## **ALKAGEN® AQ SOLUTION PROVIDES POINT SOURCE ODOR AND CORROSION CONTROL IN FLORIDA**

Experiencing severe wet-well corrosion and odor complaints at a prominent lift station, a municipality in South Florida turned to Evoqua to provide an effective solution.

Evoqua Water Technologies LLC was contacted by a South Florida Municipality to provide an odor control solution for a lift station within their collection system. In the past, the municipality had implemented biofiltration for control of atmospheric hydrogen sulfide. However, in recent years the biofilter was removed, leaving the lift station untreated and exposed to high sulfide concentrations. As a result, the lift station was subjected to a substantial degree of corrosion as well as odor complaints from the surrounding neighborhood.

The lift station handled an average daily wastewater flow of 0.5 MGD. Liquid sampling at the site showed an average hydrogen sulfide concentration of 6 mg/L. Atmospheric hydrogen sulfide data revealed that the lift station was experiencing an average sulfide concentration of 187 ppm, with peaks up to 324 ppm.

### **ALKAGEN® AQ SOLUTION - PH SHIFT TECHNOLOGY**

Due to the high sulfide concentrations and resulting corrosion issues, Evoqua determined a liquid phase technology was necessary to effectively reduce hydrogen sulfide concentrations. Point source application was also an important factor in selecting the right technology for a fast-acting solution.

Alkagen® AQ Solution, which uses a pH shift technology, was recommended as the optimal solution for providing point source sulfide reduction within the lift station. As pH increases, hydrogen sulfide will shift into a non-volatile form that is unable to escape into the vapor phase. For typical wastewater (pH ~7.0), nearly 50% of hydrogen sulfide exists in this non-volatile form. However, at a pH of 8.5, more than 97% of the sulfide will be trapped in solution. Alkagen AQ Solution increases wastewater pH as needed to effectively trap hydrogen sulfide in solution and prevent escape into the vapor phase.

Alkagen AQ Solution is fast-acting and rapidly dissolves in wastewater, providing an almost instantaneous effect at the application point. This contrasts to magnesium hydroxide, which has to be added upstream to allow time for dissolution, sometimes requiring multiple feed sites.



Alkagen AQ Solution provides fast-acting sulfide control

### **ADVANCED DOSING AND REMOTE MONITORING - VERSADOSE® CONTROLLER AND VAPORLINK® MONITOR**

With the Alkagen AQ system, a VersaDose® Dose-to-Demand advanced controller was used to carefully regulate the metering of chemicals by programming daily dose curves to match sewage flow rates within the system. By using the VersaDose Controller, Evoqua was able to maintain the desired pH set by the treatment objectives and prevent over-feeding and wasteful spending by the municipality.

Additionally, Evoqua deployed a VaporLink® remote monitoring device to continuously monitor sulfide concentrations within the wet-well. This capability allowed remote access to site specific data from any location with an internet connection. The VaporLink monitor and VersaDose controller were made accessible through Link2Site® Web Monitoring and Control system for real-time visibility and control. These technologies allowed for quick and efficient remote optimization of dosing to effectively reduce hydrogen sulfide.

## RAPID AND EFFECTIVE SULFIDE CONTROL

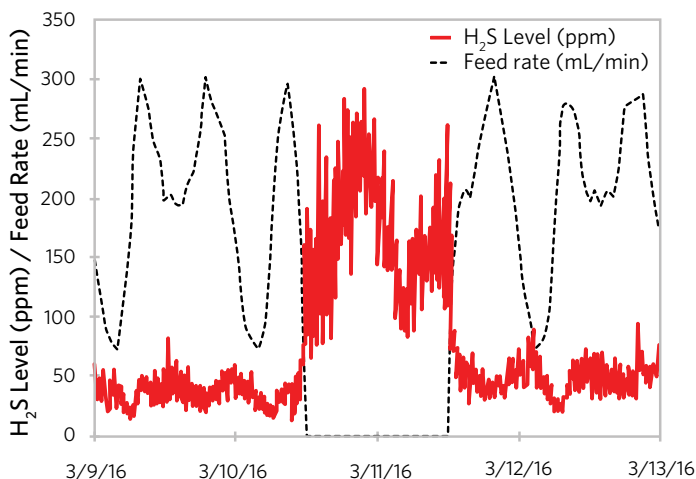
Evoqua fed Alkagen® AQ Solution directly into the influent manhole to provide instantaneous odor control within the wet-well. The municipality established treatment objectives of  $\leq 50.0$  ppm atmospheric sulfide and 8.5 wastewater pH.

Following installation and start-up, Evoqua optimized the Alkagen AQ feed system to meet the treatment objectives. The final adjusted feed rate was approximately 77 GPD. At this feed rate, hydrogen sulfide levels within the wet-well averaged 48.9 ppm while wastewater pH was maintained to an average of 8.45.

In order to demonstrate the effectiveness and rapid response of Alkagen AQ Solution, the feed system was temporarily shut off for 24 hours as seen in the chart below. Upon shutting off the system, hydrogen sulfide almost immediately returned to the untreated levels previously measured. Once the system was restarted, hydrogen sulfide concentrations promptly returned to the desired treatment levels.

With the treatment objectives being met, and the provided technology thoroughly proven, the municipality was confident in their decision to use Alkagen AQ Solution for odor and corrosion control at the lift station.

### ATMOSPHERIC HYDROGEN SULFIDE LEVELS WITH FEED RATE



When the Alkagen AQ feed system was temporarily shut off, hydrogen sulfide levels spiked, demonstrating the effectiveness of the solution.

### INDUSTRY:

Municipal Wastewater

### BUSINESS CHALLENGE:

Effectively control hydrogen sulfide to eliminate odor complaints and reduce corrosion

### SOLUTIONS/SERVICES:

- Alkagen AQ Solution
- VersaDose Dosing Controller
- VaporLink Hydrogen Sulfide Monitor
- Link2Site Web Monitoring and Control

### ALKAGEN® SOLUTION ADVANTAGES:

- Fast-acting sulfide control
- Achieves pH of 9+
- Treats odor and corrosion at the source

### FOR MORE INFORMATION

[www.evoqua.com/alkagen](http://www.evoqua.com/alkagen)

Contact:

Charles Maltby

Technical Sales Representative

Video Links

Odor and Corrosion Control in Sarasota County

Evoqua video - Making Water Safer

Evoqua Water Technologies LLC

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#### **Protective Coatings and Repair Products**

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Wol-Coat 310 is a 100% Solids Epoxy chemical resistant liner/coating for the protection of interiors of wastewater treatment plants structures, lift stations, large diameter pipes and manholes. At a mix ratio of 1 to 1 this chemically cured amine epoxy has excellent chemical, corrosion, moisture, and stain and abrasion resistance. Please give us a call if you want an excellent product at a great value for your coating needs.

**Contact: John Wolfe: [jwolfe@wol-coat.com](mailto:jwolfe@wol-coat.com)  
(813) 263-4498**

### **VTScada by Trihedral**

VTScada is award winning monitoring and control software that is perfect for plant, telemetry, or hosted systems of any size. For 30 years, we have been eliminating frustration from every stage of the HMI / SCADA lifecycle; from pricing and licensing, to development and support.

Contact: Bryan Sinkler, Technical Sales  
Phone: 407-403-3785

[Email: bryan.sinkler@trihedral.com](mailto:bryan.sinkler@trihedral.com)

Millenia Lakes One  
4700 Millenia Boulevard, Suite 260,  
Orlando, FL 32839-6014  
[www.trihedral.com](http://www.trihedral.com)

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And More!



# **Region XII**

GENERAL MEMBERSHIP MEETING

HOST & SPONSOR: **Odyssey Manufacturing Co. Tampa**

**1484 Massaro Blvd**  
**Tampa, FL 33619**

\*\*\*Look for the FW&PCOA REGION XII MEETING INSIDE SIGN\*\*\*



***What The Heck Is That?***

Bring your answer to the NEXT MEETING and you could win BAM! That's Bumming Around Money!

ANSWER: \_\_\_\_\_

MUST BE PRESENT TO WIN

Email: **[webmaster.region12@gmail.com](mailto:webmaster.region12@gmail.com)** for more information

**Be sure to "Register" for the NEXT MEETING and let us know you're coming!**