

Field & Upstream

Serving treatment plant and systems operators in Hillsborough, Manatee, and Sarasota Counties

From The Director

What a great General Membership Meeting we had in June. We had 22 in attendance, thanks to everyone who attended the meeting. Thank you to Manatee County's Southeast Maintenance Facility for hosting the meeting. And thanks to Jason Hopp of Heyward Florida for sponsoring the meeting and providing the meal and a great presentation on several systems designed to enhance wastewater treatment systems. The systems presented can help improve treatability, settleability, and increase permitted capacity. If your system is approaching your plants permitted capacity, having problems with filamentous bacteria, or other treatment system problems, please reach out to Jason at 863-701-3082 (cell) or www.HeywardFL.com. Congratulations goes out to Kevin Doorman for winning the BAM (bumming around money), he picked up \$25 just for attending the meeting.

The Holiday Party is scheduled for December 14th at Top Golf. This has been a big hit the past two years and has been brought back by popular demand this year. Pre-registration will be required for the event at a cost of \$25 for members and \$10 for guests. Please watch for postings and registrations in the upcoming months. Great fun for just a few bucks, even if you're not a golfer plan on coming out and have a great time with us.

Our region is in the process of preparing CEU classes for the next renewal period. Please watch for training posting for our region. (More on Page 2)

DIRECTOR

Steve Saffels

12-director@fwpcoa.org

Officers for 2019

CHAIRMAN

Brent Laudicina

12-chair@fwpcoa.org

VICE-CHAIRMAN

Dana Mills

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Nathan Hale

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Zoe Chaiser

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TREASURE-ELECT

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INSTRUCTOR - COLUMNIST

Patrick Murphy

WASTEWATER TREATMENT TRUSTEE

Brad Mendel

DRINKING WATER TREATMENT TRUSTEE

Theresa Hughes

RECLAIMED WATER TRUSTEE

David Buyens

More From The Director

I attended the June 8th State Board Meeting in St. Augustine. Dave Clanton's family was present and presented them his Honorary Life Member (HLM) plaque. Robert McColgan of Region 7 was also voted in as a new HML member. Bobby Jones and his family was also at the meeting and Bobby received his 50-year membership pin. The Education Committee presented... and was approved to begin work on the associations WW Collection Manual. This is the first step in FWPCOA owning its own training manuals.

Next Meeting will be on August 15th at Hillsborough County BSOC, Volition Controls Corporation will be the sponsor. A facility tour of the Falkenburg wastewater treatment plant is scheduled for 5 pm and the meeting starts at 6 pm. If you plan on attending, please pre-register on the website, this helps us plan for the meeting.

What can you expect if you attend a meeting. You will meet other professionals in your chosen field of work who are willing to discuss issues we all face in our systems. The meeting sponsors provide information about their products and services which can help improve your systems, plus they provide a meal for the meeting. Let's not forget about the BAM, you could win \$25 to spend as you want. This is your association. I invite you to get out and become involved.

We are in the hottest time of the year. Remember to stay hydrated and take care when working outside. Everyone be safe while performing your duties.

Steve Saffels
Director Region XII



Region XII



F.W.&P.C.O.A. Region XII
General Membership Meeting
Date: 06/20/19

Chairman Brent Laudicina called the meeting to order, asked everyone to make sure they signed in and introductions off all attendees were made. The Sponsor for the meeting was Jason Hopp of Heyward Florida who made a presentation on 3 different systems designed for wastewater systems to improve treatability, settleability and increase plant capacities. Thanks for your support of the association. The host facility was Manatee County's Southeast Maintenance Facility. Thanks to their staff for the facility and support of the organization. Roll call to establish quorum: Steve Saffels, Director, present; Brent Laudicina, Chairman, present; Dana Mills Vice-Chair, present; Zoé Chaiser, Secretary / Treasurer, absent; John Wolfe, Secretary/Treasurer Elect, present TRUSTEES: Web-Master, Mark Harris, absent; Drinking Water, Theresa Hughes, present; Distribution Systems, Nathan Hale, absent; Industrial Pretreatment, Joe Squitieri, present; Wastewater, Brad Mendel, present; Reclaimed Water, David Buyens, present; Training Committee, Patrick Murphy, present. VACANT TRUSTEE POSITIONS, Collection System, Stormwater, Backflow. If you are interested in one of these positions, please talk with one of our board members. Thanks to our annual sponsors, Evoqua Water Technologies, LLC, Trihedral, Water Quality Services, Electro-Mechanical South, Wol-Coat, and Edward Jones Investments. Treasurer's Report – Zoé Chaiser - \$1,473.28. Chairman's Report – Brent Laudicina called for motion to approve Minutes of the April meeting as published in on the website. Steve Saffels made a motion to approve and Dana Mills second, the motion was approved. Director's Report –Steve Saffels - The Holiday Party is set up for December 14th at Top Golf. Hours are set from 7 – 10 pm. At the May Board meeting the fees were set at \$25 for member's fee and \$10 for guests. Steve attended the June 8th State Board Meeting in St. Augustine. Dave Clanton's family was present and presented them his Honorary Life Member (HLM) plaque. Robert McColgan of Region 7 was also voted in as a new HML member. Bobby Jones and his family were also

at the meeting and Bobby received his 50 year membership pin. The Education Committee presented and was approved to begin work on the associations WW Collection Manual. This is the first step in FWPCOA owning its own training manuals. Committee Reports: Newsletter / Webmaster – Mark Harris - Thank Mark again for doing what they do. For the Bumming Around Money (BAM) Kevin Doorman won the \$25. Education Committee – Patrick Murphy announce he has a couple of classes approved and is working on a few more. Awards Committee – Harris, Wolfe, Murphy - The Deadline for Region XII Outstanding Member & Outstanding Facility Awards is November 1st, 2019. The award presented will be in wastewater operations, water operations and member of the year. Murphy also pointed out the state awards coming up. Membership Committee – VACANT. Chairman called for Trustee reports. Trustees – Nathan Hale (DS) Not present, Theresa Hughes (DW) no report, Joe Squitieri (IP) Joe announced Hillsborough County will be hosting a class on the Dental Amalgam Rule on June 26th. Hillsborough will also be hosting a class on Fats, Oils and Grease in August. Another item being presented by FDEP under the SWAN Program allowing sanitation workers to work at composting facilities with only a two week training class in place of the Class ‘A’ operator as currently required under current rules of FAC 62-640. Facilities should watch and contest this. Brad Mendel (WW) no report, David Buyens (RW) no report. Old Business: None. New Business: None. Next Meeting: August 15th at Hillsborough County BSOC, Volition Controls Corporation will be the sponsor. Adjournment – call for motion to adjourn the meeting. John made the motion and, Joe seconded. Motion passed.

Minutes submitted by: Steve Saffels for Zoé Chaiser, Secretary / Treasurer.

REGION XII'S

Next Meeting

DATE : AUGUST 15, 2019 6:00 PM - 8:00 PM

[On-Line Registration](#)

[Register by 8/12/2019](#)

HOST: Hillsborough County Brandon Support Operations Complex
332 N Falkenburg Rd
TAMPA, FL 33619

Falkenburg AWWTF

12 MGD advanced treatment plant with UV disinfection
Meet at 5pm in front of the Complex for escort to plant

**OPTIONAL
PLANT TOUR**

SPONSOR: Volition Controls & YSI

The exclusive representative for the YSI IQ SensorNet continuous monitoring system, in the state of Florida. Come learn about the latest technology available for your wastewater treatment process. Volition Controls will provide food from Tijuana Flats, with Tea & Lemonade, Hats, Shirts, and other giveaways!

Volition Controls

333 N Falkenburg Rd #113

Tampa, FL 33619

Cell: 813-459-0364

Office: 813-714-7006

www.VolitionCC.com



PLEASE REGISTER for this meeting, as it helps Sponsors plan for door prizes, food and drinks and Plant Tours!



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.**

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Contact: Charles Maltby

**Technical Sales Representative
Evoqua Water Technologies LLC
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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

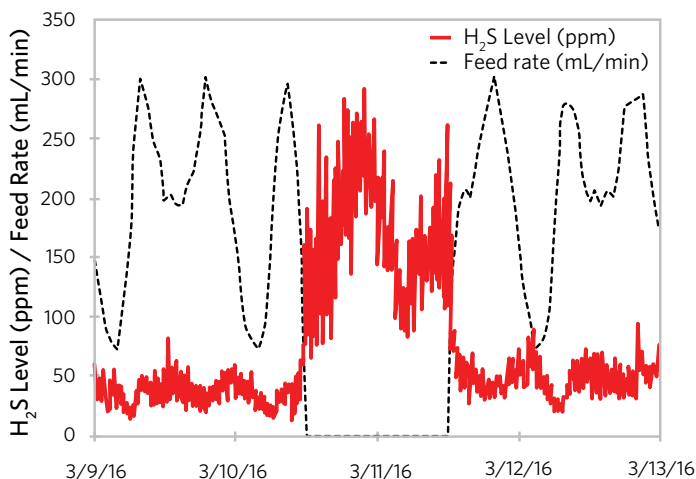
Evoqua fed Alkagen® AQ Solution directly into the influent manhole to provide instantaneous odor control within the wet-well. The municipality established treatment objectives of ≤ 50.0 ppm atmospheric sulfide and 8.5 wastewater pH.

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

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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Telephone/Mobile: (941) 586-8813

Main Office: (800) 345-3982 (I do not have an office or telephone extension at this number)

Email: charles.maltby@evoqua.com

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Region XII

GENERAL MEMBERSHIP MEETING

DATE : AUGUST 15, 2019 6:00 PM - 8:00 PM

HOST: Hillsborough County Brandon Support Operations Complex
332 N Falkenburg Rd
TAMPA, FL 33619

**TREATMENT PLANT
TOURS @ 5PM-6PM**

Look for the "FW&PCOA REGION XII MEETING INSIDE" SIGN



HINT: It's a mod mod world!

What The Heck Is That?

Type in then print and 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 for more information

Be sure to "Register" for the
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you're coming!