

Field & Upstream

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

From The Director

Hope this newsletter finds everyone safe and healthy out there. What a crazy year it has been. Covid-19, protests all over the country, and the elections. I am glad all the crazy political commercials are over.

On November 19th at Noon we will be holding a Virtual General Membership Meeting. If you are schedule to work check with your supervisors to see if they will allow you to log in. During this meeting the 2021 Region XII Board Members as recommended by the Nominating Committee will be presented for approval and considerations of nominations from others on from the floor. The proposed slate of officers for 2021 are: Steve Saffels, Director; Dana Mills, Chairman; Theresa Hughes, Vice-Chair; Zoé Chaiser, Secretary/Treasurer; Brent Laudicina, Secretary/Treasurer Elect; Mark Harris, Web-Master/Newsletter; Isaiah Moss, Drinking Water Trustee; Kevin Doorman, Wastewater Trustee; David Buyens, Reclaimed Water Trustee; Joe Squitieri, Industrial Pretreatment Trustee. We have three vacant positions at this time; Distribution Trustee, Stormwater Trustee, Collection Systems Trustee, If you are interested in one of these positions, please contact me or see me at one of the meetings.

Click the Link below for the November "Virtual" General Membership Meeting:

Region XII Virtual General Membership Meeting

The regions board members have voted to extend the Region XII award nominations to December 1st. The awards presented will be for Wastewater Facility, Water Facility Operations and Member Of The Year. Applications are to be submitted to 12-director@fwpcoa.org. The awards will be presented at the End Of The Year Party.

On December 12th we will have our End Of The Year Party. The location will be Beef-O-Brady's in Lakewood Ranch. Watch your email and Region XII's webpage for additional information.

Do you or your facility have any training needs? We can help with that. Our region has approved courses for Distribution, Drinking Water and Wastewater. These courses can be held at your facility with only your staff if you prefer.

More From The Director on Page-2

Your Officers for 2020

DIRECTOR

Steve Saffels

12-director@fwpcoa.org

CHAIRMAN

Brent Laudicina

12-chair@fwpcoa.org

VICE-CHAIRMAN

Dana Mills

12-vice-chair@fwpcoa.org

TREASURE-ELECT

John Wolfe

12-treas-elect@fwpcoa.org

SECRETARY/TREASURER

Zoe Chaiser

12-Treasurer@fwpcoa.org

WEB - EMAIL - NEWSLETTER

Mark G Harris

Harriscounty555@gmail.com

INDUSTRIAL PRETREATMENT

Joe Squitieri

DRINKING WATER DISTRIBUTION

TRUSTEE

Nathan Hale

INSTRUCTOR - COLUMNIST

Patrick Murphy

WASTEWATER TREATMENT TRUSTEE

Brad Mendel

DRINKING WATER TREATMENT TRUSTEE

Theresa Hughes

RECLAIMED WATER TRUSTEE

David Buyens

More From The Director

Unless there is another shutdown it appears the Spring Short School in March 2021 is in the planning stages. The Pat Robinson award winners for 2020 will be able to sign up for one of the upcoming 2021 short schools.

The state website has the following links. Please check them out.

Incident Action Checklist – Pandemic Incidents, Wastewater Tests Could Provide Early Warning of COVID-19

The Water Professional's Guide to COVID-19

Letter to U.S. Governors from the EPA

COVID-19 Implications for EPA's Enforcement and Compliance Assurance Program

OSHA - Control and Prevention

Drinking Water, Recreational Water and Wastewater: What You Need to Know

Guidance for Wastewater Workers

Coronavirus And The Water Cycle — Here Is What Treatment Professionals Need To Know

Thanks to all the returning sponsors for 2020: Evoqua, Electro-Mechanical South, Water Quality Services, Wol-Coat, Edward Jones Investments and Trihedral. We also added some new sponsors this year: Oliver Law, USA Bluebook and Odyssey Manufacturing.

Thanks to all our sponsors for your support of Region XII.

I also need to thank my current board members for their support during this year. Although it has been a tough year, we made it through it and I could not have done it without you.

2020 has been a year we will all remember for a long time. Let's put this year behind us and look forward to a better 2021.

Everyone stay safe out there.

Steve Saffels

FWPCOA Region XII, Director

Sponsors of Region XII

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

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Info@OliveroLaw.com

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REGION XII - EAGLE SPONSOR!



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

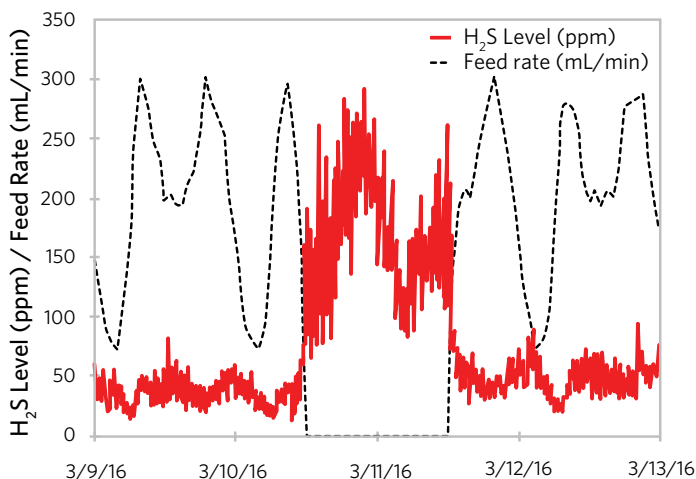
Evoqua fed Alkagen® AQ Solution directly into the influent manhole to provide instantaneous odor control within the wet-well. The municipality established treatment objectives of ≤ 50.0 ppm atmospheric sulfide and 8.5 wastewater pH.

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

2650 Tallevast Rd.

Sarasota, Florida, 34243; USA

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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1484 Massaro Blvd. Tampa, FL 33619

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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

(813) 373-6825

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Contact: Ric Romanoff

rromanoff@ems-fl.com

(800) 925-9EMS (9367)

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Contact: David Stevens

Owner/Lead Operator

(813) 205-1045

Email: QualityWaterServices1969@gmail.com

Region XII Links

**FW&PCOA Region XII
Outstanding Facility Award**

**FW&PCOA Region XII
Outstanding Member Award**

Region XII Awards Applications Due November 1st

DEP License Search

**FW&PCOA
On-Line CEU's**

**FW&PCOA Region XII
General Membership Meeting Minutes**

Member Login

**FW&PCOA Region XII's
Facebook Page**

Region XII

Next *Virtual* Meeting

DATE : NOVEMBER 19, 2020

12:00 PM - 1:00 PM

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[Link to the November Virtual General Membership Meeting](#)



GENERAL MEMBERSHIP MEETING

Date: November 19, 2020

Time: 12:00PM - 1:00 p.m.

Location: "Virtual"

