

Field & Upstream

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

From The Director

Happy New Year to everyone.!

An old decade behind and a new one ahead of us. Looking forward to the advancement of our Region. The Holiday Party at Top Golf was another successful event. A great time was had by all. Food was great, we had some great golfers present and some who weren't so good (that would be me) but we all had a great time. **Do you have an idea for the 2020 Holiday Party?** If so, get with one of the board members and discuss it. All board members from 2019 have been re-elected to their same positions for 2020, thanks to all the board members for stepping up.

Thanks to all the returning sponsors for 2020: Evoqua, Electro-Mechanical South, Water Quality Services, Wol-Coat, and Trihedral. We also added some new sponsors this year: USA Bluebook and Odyssey Manufacturing. Thanks to all our sponsors for your support of Region XII.

Did you know Region XII now has its own Facebook page? Thanks to Brad Mendel and Mark Harris for making this happen. Please check it out and LIKE the page.

Our February meeting will be held at the Plant City Water Reclamation Facility and the Sponsor will be **GML Coatings LLC**, where prior to the meeting there will be the **Region XII CEU Short School February 20th, 2020!** Go to our webpage and signup! See the paper application below. 2021 renewal period is just around the corner and you don't want to have to rush to get the required CEU's for license renewal. Region XII currently has 519 members but we typically have 15 – 20 at our meetings. These meetings are a great place to see what vendors have that may help with a situation at your plant. It also a place to discuss issues you may be having with other knowledgeable members. Bonus, there is always good food at each of the meetings. Come on out, get involved.

Your Officers for 2020

DIRECTOR

Steve Saffels

12-director@fwpcoa.org

CHAIRMAN

Brent Laudicina

12-chair@fwpcoa.org

VICE-CHAIRMAN

Dana Mills

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TREASURE-ELECT

John Wolfe

12-treas-elect@fwpcoa.org

SECRETARY/TREASURER

Zoe Chaiser

12-Treasurer@fwpcoa.org

WEB - EMAIL - NEWSLETTER

Mark G Harris

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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

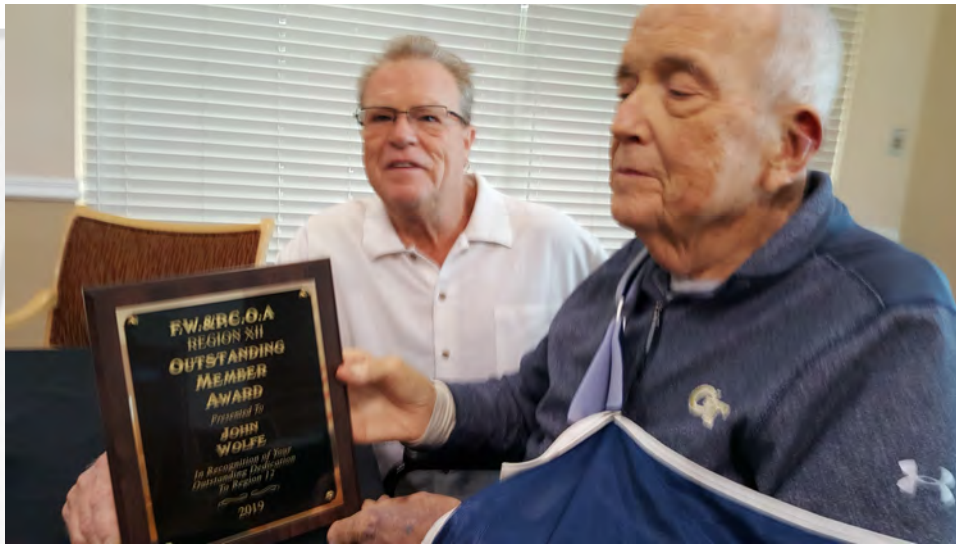
RECLAIMED WATER TRUSTEE

David Buyens

THE REGION XII Years End Meeting/Party Of 2019



THE REGION XII OUTSTANDING AWARD WINNERS OF 2019



**Outstanding Member
John Wolfe
Presented by Steve Saffels
Thank you John for helping Region XII**



**Outstanding Facility
Hillsborough County Lake Park WTP
Accepted by Theresa Hughes
Region XII going strong!**





Florida Water & Pollution Control Operators Association

A Non-Profit Association Serving Water and Wastewater Professionals in the State of Florida

Region XII CEU Short School February 20th, 2020

DS/DW CEU's Networking Professional Development

Registration Form

Name _____ Phone _____

Organization _____ Dept. _____

Mailing Address _____

Zip _____

Email _____ Fax _____

Please enter your Florida License Number: _____

Drinking Water or Distribution System

Do you wish to earn CEU? ☐ Yes ☐ No

Are you a member of FW&PCOA? ☐ Yes ☐ No

Location: Plant City Water Reclamation Facility, 1500 W. Victoria St., FL 33563

Date/Time: Date: 2/20/2020. Classes start at 8:00am – 12:00pm, Lunch provided, and then 2nd session - 1:00pm – 5:00pm.

Registration fee covers all classes and all CEU's **Note: Individuals are responsible for not duplicating sessions previously taken in this or last license cycle.

Fee: \$100 members \$130 non-members Includes CEU credits from FW&PCOA

Pre-Registration is required; classes limited to 25 students

Pay in advance on website, or

Please make check payable to: Region 12 FW&PCOA

And mail to:
Steve Saffels
2410 Howell Road,
Plant City, FL. 33566

Questions?

Call or email: Steve Saffels or

(813)-763-9425

12-director@fwpcoa.org

Patrick Murphy

(813) 757-9191

pmurphy@plantcitygov.com

Region 12's 1st General Membership Meeting of the year will be held at 6pm – 8pm following classes, vendor presentation and supper provided. All are welcome to join.



Florida Water & Pollution Control Operators Association

A Non-Profit Association Serving Water and Wastewater Professionals in the State of Florida

REGION XII FWPCOA CEU Short School

Session Listing must be submitted with registration form (page 1)

Registrants Name from page 1 _____

Check each session(s) you will attend:

Thursday February 20, 2020

_____	8:00am - 10:00am	0.2 CEU	Safe Drinking Water Act (DS/DW 02012062)	Theresa Hughes Hillsborough County
_____	10:00am - 12:00pm	0.2 CEU	Florida Water Rules (DS/DW 02012063)	Theresa Hughes Hillsborough County
Lunch provided				
_____	1:00pm - 5:00pm	0.4 CEU	Math for Drinking Water/ Distribution System Operators (DS/DW 02012064)	Isaiah Moss Tampa Bay Water

In order to receive CEU credit for a session, you must attend the complete session.

REGISTER ON-LINE!

Sponsors of Region XII

Odyssey Manufacturing

Odyssey Manufacturing Company is one of the leading chemical manufacturers and distributors to the Florida's water and wastewater industry. Odyssey provides sodium hypochlorite to most of plants in Florida in addition to providing sodium bisulfite and sodium hydroxide. In addition, Odyssey is a licensed general and plumbing contractor who specializes in chemical system design, permitting, equipment supply and installation and repair services. We are also the Florida distributor for the Process Solutions MicrClor On-Site Hypochlorite Generator (OSHG), Residual Control System (RCS) and TTHM Removal Systems (TRS) along with the Pax and Tank Shark Ground Storage Tank mixers.

Get in Touch with Us Today!
(800)-ODYSSEY // (813) 635-0339
pallman@odysseymanufacturing.com
1484 Massaro Blvd. Tampa, FL 33619

-YOUR NAME HERE-

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Electro Mechanical South Inc.

Complete Machine Shop Capability

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-hours a day, 7-days a week, 52-weeks a year commitment to accommodate and help our customers doing their business.

Contact: Ric Romanoff

rromanoff@ems-fl.com

(800) 925-9EMS (9367)

Quality Water Services

Quality Services at Affordable Prices

Certified License Operator, Drinking Water, WasteWater Utility Operation, Backflow Assembly Device Tester, Repair Testing, Free Estimate

Contact: David Stevens

Owner/Lead Operator

(813) 205-1045

Email: QualityWaterServices1969@gmail.com

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

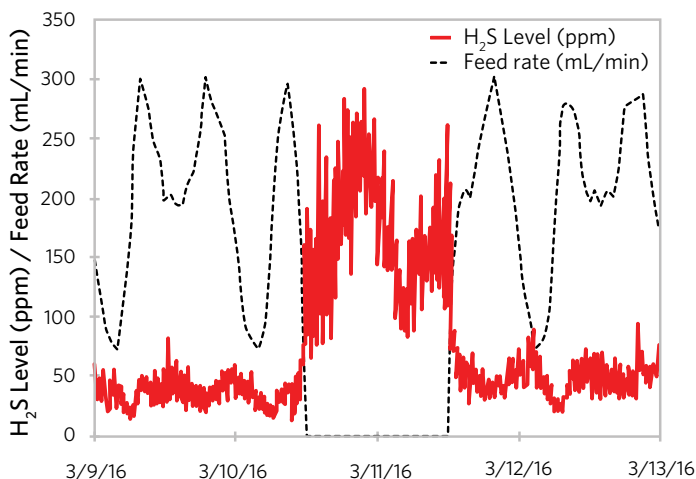
Evoqua fed Alkagen® AQ Solution directly into the influent manhole to provide instantaneous odor control within the wet-well. The municipality established treatment objectives of ≤ 50.0 ppm atmospheric sulfide and 8.5 wastewater pH.

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

www.evoqua.com



2650 Tallevast Road, Sarasota, FL 34243

+1 (800) 345-3982 (toll-free)

+1 (941) 355-2971 (toll)

www.evoqua.com

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Subject to change without notice

MS-ALKAGEN-FL-CS-1016

Sponsors of Region XII

WOL-COAT

Protective Coatings and Repair Products

Wol-coat.com

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
(813) 263-4498**

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VTScada®

Software for Monitoring & Control

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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.

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Email: bryan.sinkler@trihedral.com

Millenia Lakes One

4700 Millenia Boulevard, Suite 260,

Orlando, FL 32839-6014

www.trihedral.com

USA Bluebook

USABlueBook is the recognized source of products and technical support for professional water and wastewater operators. As the company was founded by utility operators, for utility operators, it's our goal to remain the industry's top technical and customer service leader.

Unsurpassed personal customer service. When you call USABlueBook, you'll always speak with a live Customer Service Representative. No annoying automated routing services! Our Customer Service staff can answer your questions, place orders, quote pricing and track shipments. Give us a call Monday thru Friday, 6 am to 7 pm CST.

Satisfaction Guarantee

Customer satisfaction is our goal. Our satisfaction guarantee and hassle-free, day return policy ensure that great service doesn't end with the sale. Order with confidence-we're not satisfied until you are.

<https://www.usabluebook.com/>

Region XII Links

Region XII Awards Applications Due November 1st

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

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

DEP License Search

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

Member Login

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

Region XII

Next Meeting

[Click to RSVP](#)

DATE : FEBRUARY 20, 2020
6:00 PM - 8:00 PM

Host: Plant City Water Reclamation Facility
1500 W. Victoria St., Plant City Fl. 33563

Sponsor: GML Coatings LLC 10315 Technology Terrace, Bradenton, FL 34211

GML Coatings LLC, Specializes in concrete restoration and coating of new and existing water and wastewater infrastructure. GML applies a variety of specialty coatings and is the owner and exclusive applicator of the Green Monster™ line of elastomeric coatings and SewerCrete™ concrete products nationwide. GML provides a turnkey project for all new construction and existing infrastructure that is in need of a protective coating and/or concrete restoration. GML Coatings is now offering cleaning and televising of sewer/storm pipes. At the start of the year we acquired a brand new Vac-truck and T.V van so we can offer top of the line video and inspections of services, dips, cracks, breaks.. etc.

[Linkedin.com/company/gml-coatings](https://www.linkedin.com/company/gml-coatings)

[Instagram.com/gml-coatings](https://www.instagram.com/gml-coatings)

Contact Mike McClellan at **mike@gmlcoating.com**



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.**

Green Monster™ Liner

- No VOC's
- 100% Solids
- Seamless Spray Application
- Resists Cracking
- Flexible
- High Elongation
- Excellent Corrosion Protection

APPLICATIONS

- Tanks/Pipe (Concrete, Steel, Fiberglass, Aluminium)
- Water Treatment Plant Applications (Certified to ANSI 61-5 Standards)
- Manholes
- Lift Stations/Valve Vaults
- Wastewater Treatment Plant Applications
- Storm Water Applications
- Pond Liners

GML provides low cost solutions such as restoring structures with calcium aluminate concretes to high end speciality coatings solving different challenges related to rehabilitation needs for deteriorating infrastructure. Proactive utilities will greatly reduce future maintenance, operating, and emergency repair costs by maintaining their assets. GML provides a turnkey coating project for all new construction and existing infrastructure that is in need of rehabilitation or a protective coating.



THE GML COATING SYSTEM

“Highly Resistant Properties to H2S Gases, Chemicals, and Abrasion.”

- Flow Control by means of flow-through plugs or by-pass pumping.
- Sandblasting/Waterblasting to provide a substrate clean of corrosion.
- Injection Grouting to stop all active infiltration.
- Concrete Restoration for structural integrity and to provide a smooth, slightly profiled surface for coating.
- Green Monster™ Primer applied to the fully cured concrete filling in the pours forming a tenacious bond to the substrate.
- Green Monster™ Liner provides the final protective coating and infrastructure may be put back to service within 10 minutes after application.

GML

COATINGS



WWW.GMLCOATINGS.COM

10315 Technology Terrace
Lakewood Ranch, FL 34211
Phone: 941.755.2176 • Fax: 941.755.2428

GML

COATINGS

Green Monster™

100% solids containing no VOC's and is a flexible coating that is impervious to all conditions found in water and wastewater infrastructure.

Preparation of the substrate is always the most important part of any successful and long lasting coating project.

GML Coatings, LLC is the owner and exclusive applicator for Green Monster™ nationwide. The Green Monster™ Liner coating system includes a three step process for all concrete structures and a two step process for all steel, aluminum, and fiberglass structures. Green Monster™ provides high abrasion resistance and has excellent bonding properties to concrete, brick, metals, and fiberglass when applied over the specified primer.

GML Coatings goes to great lengths in order to provide the most ideal environment before our coatings are applied. We utilize injection grouts and fast-set cementitious concretes to prepare leaking and deteriorated structures. All materials used have high early strength, fast set, cure times allowing for quick turnaround time on projects. Wastewater infrastructure can be put in service 10 minutes after application of the Green Monster™ Liner.

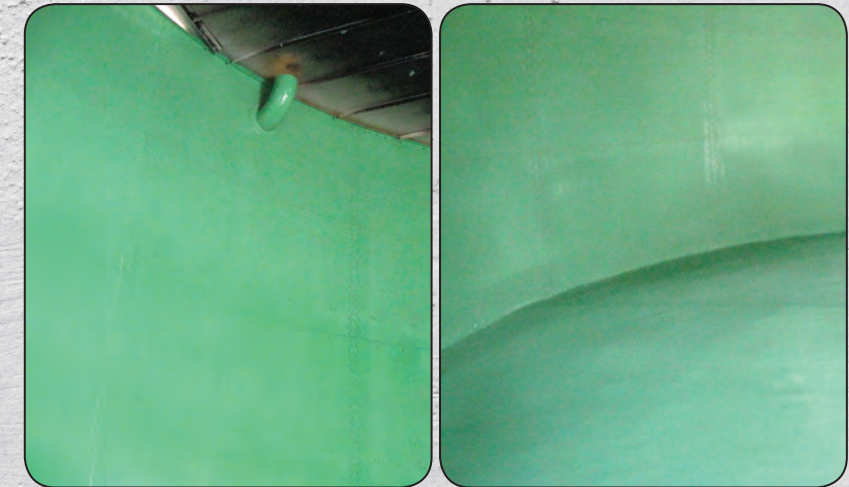


Green Monster™ (Potable)

UL approved to ANSI 61-5 standards, this flexible coating is used for the application of potable water infrastructure. This product has excellent chemical resistance to anything found in this type of environment.

This liner system will provide a leak proof monolithic and seamless application when fully installed.

Green Monster™ (Potable) is formulated for potable water applications and shares very similar characteristics to the original Green Monster™. Utilities can prevent deterioration by applying it to new construction projects or existing tanks and structures where leaks have occurred due to cracking.



GML Coatings, LLC has been recognized for providing cutting edge concrete restoration and coating technology to the water and wastewater industry.

GML APPLICATIONS

The GML Coating Systems include the original Green Monster™ Liner, Green Monster™ Potable, and Green Monster™ Structural. All three top coats are applied at thicknesses ranging from 80 mils to 250 mils depending on the application. The three products are spray applied over GML 30/60 cementitious mortar and Green Monster™ Primer.



GENERAL MEMBERSHIP MEETING

Date: February 20, 2020

Time: 6:00 p.m. - 8:00 p.m.

Location: Plant City WRF

1500 W. Victoria St., FL 33563

What The Heck Is That?

