



Missouri Smallflows Organization

OUTHOUSE POST

A Quarterly Publication

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ATTEND THE GAME WITH YOUR GROUP!

UPDATE On MO
Legislation

**And Meet New
Board Member
KENDALL NAKATO**



**New Winners of the
MSO Annual Roe-D-Hoe
Competition!**



Missouri Smallflows Organization
2733 E Battlefield #132
Springfield, MO 65804

Phone: 417-631-4027

Email: contact@mosmallflows.org

MSO OFFICERS

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Seth Coggin
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We have varying levels of sponsorships based on your need. You should check out our BPP webpage (www.mosmallflows.org) for the full details.

If you would like a copy of the brochure with prices and details, you may always contact Tammy Trantham at contact@mosmallflows.org.

Let us help you get your company name out to our membership and more. Thank you for supporting Missouri Smallflows.

A NOTE FROM THE PRESIDENT

MSO Members,

I would like to introduce myself; my name is Nicholas Dykes. I'm an Onsite Installer from the Kansas City area. I work with my father and many other good men & women at our family business, Dykes Construction. Our primary focus is new installations and replacement systems. However, we offer many other services, such as inspections, pumping, system service, distribution of ATU components, and excavating. I am the third generation in this business and pride myself on providing the highest quality work at an honest price.

Two and a half years ago, I joined the MSO Board with a goal of making an impact towards growing our industry in the state of Missouri, finding innovative ways to attract new professionals to the field, and giving back to the industry that has done so much for me. Shortly thereafter, I became an educator and began teaching classes in Missouri for MSO. I have also had the privilege of traveling our nation, speaking to other state groups, and at NOWRA. This winter I was elected president of MSO, for which I am honored. I intend to fulfill this role as a trusted servant of this organization with the members' best interest at heart, and the goals mentioned above.

I hope you all are off to a good start this work season; mother nature has been kind to us thus far, and I am hoping this pattern continues. As we get back into the swing of things, let's all follow best practices, take care of the communities we serve, and make safety on our jobsites a priority. This is the first step in growing our industry and our businesses.

For those of you that missed the MSO annual conference this year, it was an excellent show. We had a wide array of exciting presenters, many new topics, the forever famous Roe-D-Hoe, and countless exhibitors with their products on display. I am looking forward to next year's conference already. Keep in mind over the coming year that any suggestions you have for class topics can be passed onto the board. This helps us bring relevant classes and courses to you. We have another membership event planned at the Springfield Cardinals ball field coming up this fall. This is an excellent opportunity for fellowship. There is more info in the newsletter about this! Last year it was great fun, and I hope to see many of you there this year.

The Board had the Annual Strategic planning meeting in March. We elected officers at this time, set goals for the future, and came together to strategize for the coming year. Our primary focus for this year is to expand the number of courses we have to offer the membership for CEU's in person and online.

This organization is incredibly strong, and I would like to thank our Executive Director, Tammy Trantham, for all that she does. We are lucky to have her on our side. I would also like to thank our past board members, and current board members. They are all busy professionals but find time to serve and give back. With that said, we have many committees (i.e., Education, Membership, Conference established. Any member interested in joining these committees is welcome, and your further investment in our organization would be greatly appreciated. Please feel free to reach out if you're interested in getting involved!

Sincerely,
Nicholas Dykes





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MSO Member Event - September 7, 2024

Join us for a Springfield Cardinals Baseball Game!

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See the complete list here:

<https://www.milb.com/springfield/tickets/know-before-you-go>

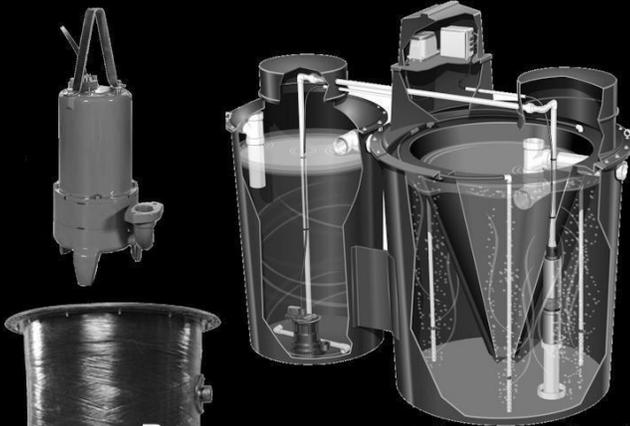
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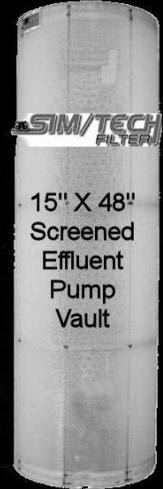


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Getting To Know Board Member Kendall Nakato

Dear Members,

It is with pleasure that I extend warm greetings to each of you in within the Missouri Smallflows Organization. As a newly appointed member of the Board of Directors, I am deeply honored to have the opportunity to serve alongside esteemed colleagues dedicated to advancing the field of on-site wastewater treatment. My goal is to help get more young professionals involved in the industry.

I recently gained my credentials as a site/soil evaluator (second half of 2023). I also hold an Inspector/Evaluator and Advanced Installer credentials. I operate under a business called Nakato Environmental, LLC.

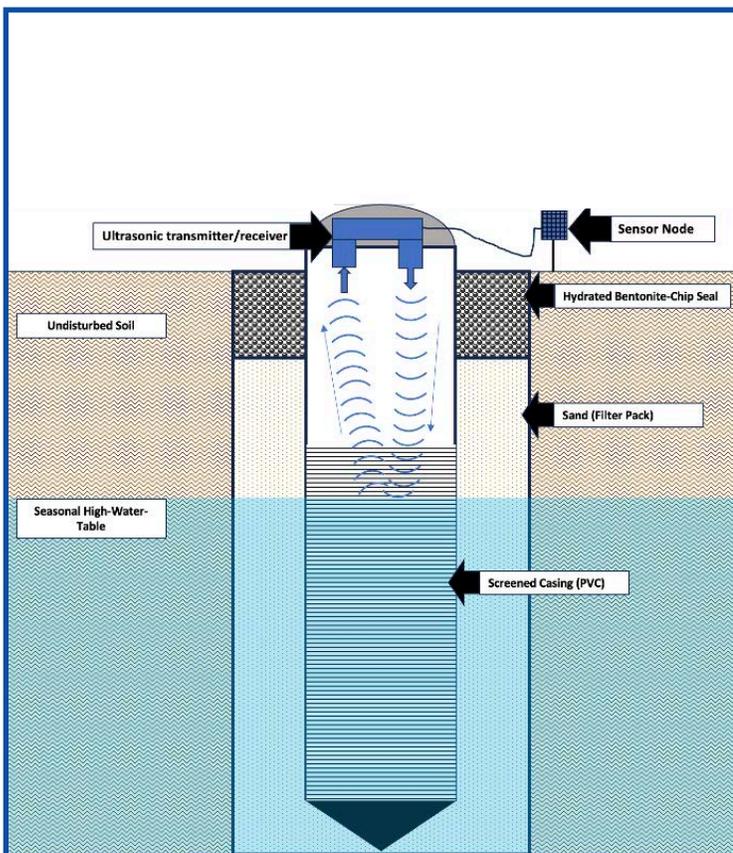
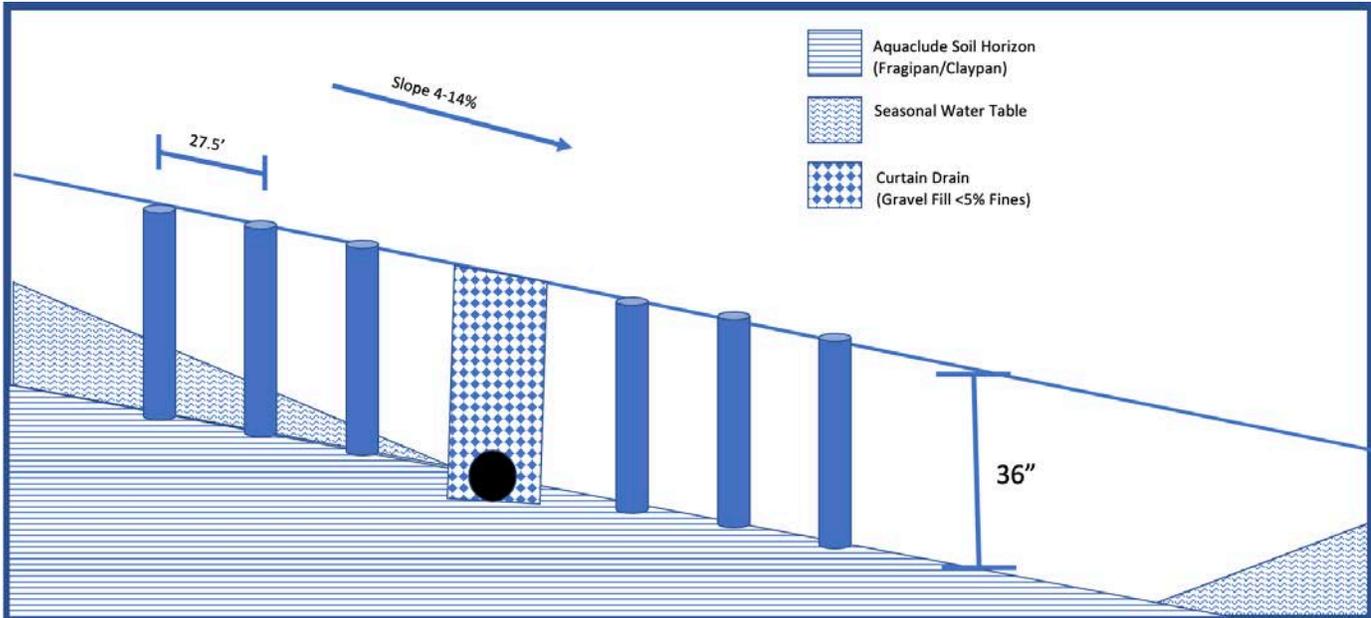
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- **Certified Drinking Water Distribution Operator (DNR Class I)**

Allow me to introduce myself. My background is in environmental science and compliance. In my current role I serve as an Environmental, Health, and Safety Coordinator at AMPROD. Before AMPROD, I was an Environmental Scientist at Environmental Works, Inc. Prior to that I interned with Green County Resource Management – Environmental Division under Michael Bowers. My professional journey has been focused on helping businesses maintain compliance with environmental regulations.

In addition to my professional endeavors, I am currently pursuing dual master's degrees at Missouri State University in Plant Science and Natural and Applied Sciences (Geology). My research focus, centered on the interplay between hydrogeology, soil science and wastewater treatment, which holds profound implications for our industry. Specifically, my thesis project seeks to address the challenge posed by perched water tables in on-site wastewater treatment systems, with a keen emphasis on the feasibility of modified conventional treatment methods.

The research is aimed at measuring the extent that interceptor drains lower the seasonal perched water table. Ideally, this would help to determine if the water table is low enough to allow for a gravity flow and soil treatment of the effluent. If this research is successful, this could help to support the use of conventional treatment on sites which have a limitation due to the depth to the seasonal water table.



Central to the success of this project is the selection of sites featuring fragipan/claypan soils, which are prevalent in our region. These soils, characterized by their high compaction and seasonal water table fluctuations, present a unique set of challenges that demand innovative solutions. By leveraging insights from esteemed researchers such as Brad Lee, Don Franzmeier, Phillip Owens, and Don Jones at Purdue University, I aim to enrich our understanding of these complex soil dynamics and their implications for wastewater treatment.

Warm regards,
Kendall Nakato
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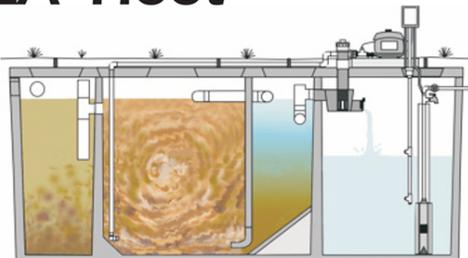
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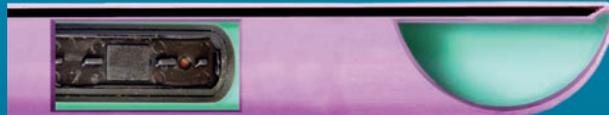


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MSO Legislative Update

MSO Members,

MSO has been watching HB 2083 move through the Missouri House of Representatives. The bill is sponsored by Representative Kurtis Gregory from the 51st District. This bill can be seen on the MO House of Representatives website. At the time this article was written, we were waiting for the bill to be read on the House floor.

HB 2083 will make a few changes to our statute. First, it will phase out percolation testing by January 2025. We realize this is a change in our Missouri industry, but many counties already do not accept percolation tests, rather, they require a soil morphology report. A soil morphology report must be completed by a certified Onsite Soil Evaluator (OSE). The variability in percolation testing makes it difficult to have an accurate test in different parts of the year in Missouri soils. By removing the option for percolation testing, our industry will raise the standards to match other states and most counties for accurate evaluations of soils for onsite wastewater treatment.

MSO realizes that Missouri has a shortage of OSE professionals. We have already begun the process of developing an OSE training program to introduce more professionals to the trade. This course will also prepare them for the written exam and field exam. Currently, there is no training course for these professionals from DHSS. We have partnered with DHSS to develop this course, so we have a better opportunity to train professionals to examine soils with onsite wastewater treatment as the main determining factor. This course will most likely pilot in 2024. We will open it up to certified OSE professionals for continuing education so we can acquire more feedback on the components. After that, we will begin to reach out to various trades and host this class to interest more in the field.

The other facet of HB 2083 is to remove the verbiage that sets the permit application fees to \$90. Every one of us knows that you can't do much for \$90 anymore. The change in the verbiage will allow DHSS and local regulatory agencies to set permit fees to "reasonable fees" and "set at a level to produce revenue that shall not exceed the cost and expense of administering the provisions of sections 701.025 to 701.059." This is important since many of our local agencies have deferred to the state for regulatory authority since the fees will not cover staff time. We hope that if this passes, we can gain more counties with local authorities to help our industry with faster permitting processes all around.

I want to thank those of you that submitted testimony in support of the bill back in February. MSO appreciates your support. If you have any questions about this bill, please reach out to MSO via email or phone.

Best regards,

Tammy Trantham

Tammy Trantham
Executive Director



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NOWRA And Partners Introduce New Training Tools Aimed At Educating Septic System Users

By Jim Kneiszel

Reprinted from Onsite Installer Magazine February 2024

Sometimes onsite installers get so caught up in obtaining continuing education credits for their crews and efforts to learn new treatment technologies that they can forget another important role they play in wastewater training: schooling septic system users.

After all, unless the homeowners in charge of their own private decentralized wastewater systems understand how they work and realize the importance of routine maintenance, wastewater professionals will have a tough time providing essential services. While installers have voiced their frustrations to me over having to cover Wastewater 101 for every fresh and new customer, that's really quite an important aspect of their job.

Sure, you might thrive on excavating for and placing septic tanks, laying out piping and drainfields, and employing all of the latest advanced components to complete an effective treatment system. But before delivering equipment and materials to the work site, you need to sit down with your customers at the dining room table and declare that class is in session.



But one challenge is how to best cover highly technical subject matter that has taken you many years to master yourself. I have heard from installers who sometimes struggle with customer education because A) they aren't educators by trade, B) they have no idea of the learning abilities and backgrounds of their customers, and C) they got into this business because they liked to be down in the trenches and that's where they want to spend their time.

But the lesson quickly learned is that regular communication with customers goes with the territory. And National Onsite Wastewater Recycling Association leaders clearly know that. This is apparent because NOWRA — in partnership with the U.S. Environmental Protection Agency and the Rural Community Assistance Program — recently launched a comprehensive homeowner training program installers can share with their onsite system users.

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The free course, including the informative Onsite Wastewater Treatment System User Guide, is available now at [nowra.org](https://www.nowra.org). The training covers everything from flush to final treatment using terminology, simple graphics, detailed photos, videos and charts that are easy for the layman to understand.

The materials are designed for onsite professionals to share in seminars with homeowner groups, health officials, Realtors or any interested parties who would like to learn how a private onsite wastewater treatment system functions. The training sessions are broken down into four modules: overview of sewage treatment and typical OWTS, overview of management, home management tips and troubleshooting.

The materials include slides with speaker notes and recommended activities to get attendees involved with the coursework. An online version of the training program and a Spanish translation are in the works for 2024, according to information provided by NOWRA.

The original article and additional materials can be found at
<https://www.onsiteinstaller.com/editorial/2024/02/class-is-in-session-for-your-customers>

LISTING OF MSO CLASSES

PLEASE REGISTER AT LEAST TWO WEEKS PRIOR TO THE CLASS!

Call our office to register at 417-631-4027

Or find the Registration Form on our website: www.mosmallflows.org

<p>Troubleshooting Onsite Systems Location: Jefferson City, Cole County Health Dept. Date: April 23, 2024 Full day class: 8:30 AM - 4:00 PM DHSS General CEUs: 6.0 Select: Basic: 6.0, Advanced: 6.0, Inspector: 6.0, OSE: 0</p> <p>Member price: \$130 Non-member price: \$200</p>	<p>Drip Irrigation Location: Jefferson City, Cole County Health Dept. Date: April 24, 2024 Full day class: 8:30 AM - 4:00 PM DHSS General CEUs: 6.0 Select: Basic: 3.5, Advanced: 6.0, Inspector: 6.0, OSE: 3.5</p> <p>Member price: \$130 Non-member price: \$200</p>
<p>Types of Drainfields & Water Management Location: Imperial, Ganey Engineering Date: May 14, 2024 Full day class: 8:30 AM - 4:30 PM DHSS General CEUs: 7.5 Select: Basic: 5.5, Advanced: 6, OSE: 1 Member price: \$130 Non-member price: \$200</p>	<p>What's in my Yard? Location: Imperial, Ganey Engineering Date: May 15, 2024 Full day class: 8:30 AM - 4:30 PM DHSS General CEUs: 6.5 Select: Basic: 5.5, Advanced: 5.5, Inspector: 1.5, OSE: 1 Member price: \$130 Non-member price: \$200</p>
<p>Types of Drainfields & Water Management Location: Liberty, Clay County Health Department Date: May 21, 2024 Full day class: 8:30 AM - 4:30 PM DHSS General CEUs: 7.5 Select: Basic: 5.5, Advanced: 6, OSE: 1 Member price: \$130 Non-member price: \$200</p>	<p>Onsite Pumps, Panels & Electrical Location: Liberty, Clay County Health Department Date: May 22, 2024 Full day class: 8:30 AM - 1:30 PM DHSS General CEUs = 4.0 Select: Basic: 3.5, Advanced: 3.5, Inspector: 3.5, OSE: 0 Member price: \$130 Non-member price: \$200</p>
<p>Inspecting Tanks, Lagoons & LPP Location: Camdenton, Mid-County Fire Department Date: June 5, 2024 Full day class: 8:30 AM - 3:30 PM DHSS General CEUs: 5 Select: Inspector: 5 Member price: \$130 Non-member price: \$200</p>	<p>Trickling through Media Filters Location: Camdenton, Mid-County Fire Department Date: June 6, 2024 Full day class: 8:30 AM - 4:00 PM DHSS General CEUs: 6 Select: Basic: 0, Advanced: 6, Inspector: 4, OSE: 0 Member price: \$130 Non-member price: \$200</p>

More classes are being scheduled.

See our online classes available on our website: www.mosmallflows.org

Seminar refund policy available online



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In partnership with NOWRA, Missouri Smallflows Organization has online courses available for onsite wastewater professionals to earn more CEUs for their license renewal. You can read all about these courses on our website with CEU summaries.

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Thanks for a great 2024 MSO Conference & Trade Show!

In January, MSO hosted its annual conference and trade show for over 275 attendees. The event was well attended as temperatures were well below zero and no one wanted to work outside. The conference boasted a great number of excellent speakers. Many of the attendees stated that this was one of the best educational shows they've been to yet.

A big thank you to our speakers for the Pre-Conference on January 15. The morning session centered around sand-based systems and many excellent questions were asked about these types of treatment options. The afternoon session refreshed on septic tank installation tips and preparing your site for tank drop-off. All of the speakers were great; Kevin Moreau, Drew Nickoli, Jeff and Jay Julien, Sean Bauer, Curtis Cluckey, and Rick Kirkpatrick.

Another big thank you to our Keynote Address speakers. It was great to have Mark Gross visit us to talk about the Closing America's Access Gap Community Initiative. Then Nicholas Dykes and Jessi Wood took the stage to talk about professionalism in our industry. They did a fantastic job of showing where we need to raise ourselves to promote the industry.

Thank you to all the exhibitors who attended and supported the show as well. Our exhibit hall had many companies in attendance for our attendees to visit with. This show would not be possible without you.

The Roe-D-Hoe was a great success! We have new winners this year!

Congratulations to our Champions!

1st Place:

Anthony Dirks, *Gallatin, Missouri*

2nd Place:

Robert Mahoney, *Arnold, Missouri*

3rd Place:

Dan Boman, *Rosebud, Missouri*



Mark your calendars for January 20-22, 2025, in Columbia.

We'll see you at the next show!



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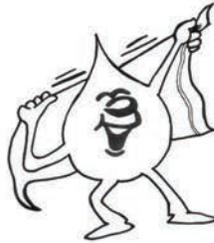
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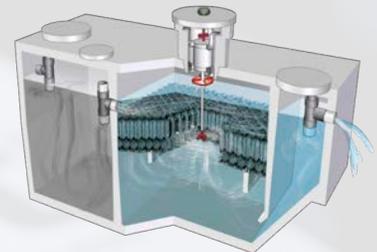
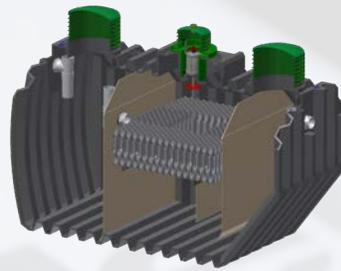
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Failing Septic System?

Need Financial Assistance?

Homeowner assistance is now available for septic remediation in select watersheds around Harry S. Truman Lake, Lake of the Ozarks, Pomme de Terre Lake, Lake Niangua, and Table Rock Lake!! Eligible homeowners can receive up to 100% reimbursement for remediating their septic system!

If you have a failing septic system or one in need of repair, you may qualify for financial assistance if this criteria is met:

- Single-family, residential home
- Household income less than \$61,000
- Existing system, new builds do not qualify
- Home must be located in a priority watershed
- Homeowner must have proof of failing system



For more information, please visit the
the H2Ozarks website at
www.h2ozarks.org/moseptic
or follow the QR code.



This project is made possible by pass-through funding from the USEPA to the Missouri Department of Natural Resources, through the 2022 Clean Water State Revolving Fund Capitalization Grant. The US EPA has provided 100% of the \$2,575,000 award in federal funds.

Onsite Wastewater Treatment Systems for Realtors Course scheduled in Springfield for May 2

In February, we helped host a course for realtors about onsite wastewater treatment systems. Thank you to our partners for helping us put on this event: Stronghold Inspections. Since this time, MSO has become an accredited school with the Missouri Real Estate Commission (MREC) and has received approval to host classes for realtors. We have scheduled another one so please spread the word to anyone you may know.

Event Hosts: James River Basin Partnership, Missouri Smallflows Organization, and The Watershed Committee of the Ozarks.

Place: Praise Assembly, 3535 N. Glenstone Ave, Springfield, MO

Date: Thursday, May 2, 2024

Time: 8:00am - 1:00pm

Admission: \$15 for lunch and continuing education credits; register below.

The James River Basin Partnership, Missouri Smallflows Organization, and the Watershed Committee of the Ozarks will hold an Onsite Wastewater Treatment System (OWTS) Inspection/Evaluation for Real Estate Professionals Workshop on Thursday, May 2, 2024, at Praise Assembly, 3535 N. Glenstone Ave in Springfield, from 8:00 am to 1:00 pm.

The workshop will include a visit to the Greene County Onsite Wastewater Training Center and will give developers and real estate professionals the opportunity to learn more about onsite wastewater treatment systems that may be installed at properties they are listing for sale.

When you register, please put your Missouri Real Estate Licensee Number in the notes; otherwise, MSO will contact you via phone to get this information prior to the class.

Funding for this workshop is provided by the Greene County Environmental Division. Course Host is Missouri Smallflows Organization (School #95000). Course has been approved by MREC for 3 Elective CEs.

Register at this website: <https://www.jamesriverbasin.com/owts-workshop>

Deadline to register: April 30, 2024





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What the Researchers are saying:

“Aerobic treatment units (ATUs) are systems that use natural processes to treat wastewater and are frequently used to renovate biologically clogged, failing septic tank-soil absorption units.”

West Virginia University - NESU.WVU.EDU Winter 2005 Vol. 16, No

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