



Missouri Smallflows Organization

OUTHOUSE POST

A Quarterly Publication

Winter 2022

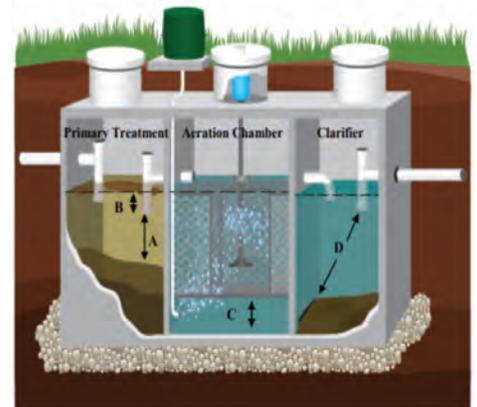
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NOWRA Mega-Conference SUCCESS!

MSO Educational Workshop Columbia, Missouri

HOMEOWNER EDUCATION RESOURCES



**REGISTER
NOW!**

Upcoming



**Classes
Available!**

Online
Classes
Available
For After
Work Hours!

Honoring Ken Kramer
and Daryl Brock

2023

Scholarship Opportunities

Pump-Out Program

Hosted by James River
Basin Program

*And
MORE!*



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WELCOME TO OUR BUSINESS PARTNER PROGRAM SUPPORTERS

Thank you for supporting MSO's goals and our organization throughout the year.

DIAMOND BUSINESS PARTNER PROGRAM

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Infiltrator Water Technologies
Stewart Concrete
Missouri Water and Wastewater Products
Innovative Pump Solutions

GOLD BUSINESS PARTNER PROGRAM

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Residential Sewage Treatment Company
Allied Concrete Products
Flo-Systems Inc.
RioVation
Ganey Engineering, LLC

If you are interested in being a part of our Business Partner Program check out the program on our website for more information.

INTERESTED IN MAKING YOUR COMPANY A BUSINESS PARTNER?

We appreciate all of our BPP members. This program enables you and your company to purchase exhibit space, newsletter advertising and your MSO membership all in one stop.

As a BPP, your company logo and link to your website will be on the MSO website. You have a certain number of membership slots to whom you can assign anyone. Our newsletter reaches over 400 people quarterly and the list is growing. We send our newsletter via email and mail to some patrons.

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 EXECUTIVE DIRECTOR

MSO Members,

Thank you to everyone who attended the NOWRA Conference in Springfield. It was a well-attended conference, and we had a great time with many informative speakers. Hosting the show in Missouri was quite a privilege and a big thank you to all who volunteered to make the event a success.

It is true that we are NOT having our state annual conference and trade show in January 2023. There are many classes scheduled throughout the state to make up for this and several online classes available. Feel free to email or call MSO if you need CEU options for any upcoming renewals.

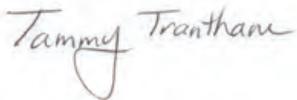
MSO is planning a big workshop on March 1 & 2 in Columbia. More details, including CEUs, will be forthcoming via email so watch your inbox as we finalize these plans. We plan to have special topics discussed and companies there to show their products. See the tentative agenda in the newsletter.

Since MSO is not having a January show, we will be having our General Membership Meeting on March 1 in Columbia at 4:30 PM. All MSO members are invited to attend and the session will be streamed via Zoom too. You can participate virtually if you don't plan to attend the workshop.

The scholarship program has an additional opportunity this year. Some of you may remember Ken Kramer from Jackson, Missouri. He passed away earlier this year. Ken was a joyful man who loved to joke around. He could always be found at the convention raising money for the scholarship fund. The MSO Board of Directors decided to offer a \$500 scholarship in his honor this year in addition to the Daryl Brock Memorial Scholarship. We hope that applications will start coming in. Deadline to apply is February 15, 2023.

I hope that your business was good this year and that you have an excellent start to 2023. It's a pleasure working for all of you through Missouri Smallflows.

Best regards,



Tammy Trantham
Executive Director

Notice of General Membership Meeting for MSO Members.

The Annual General Membership Meeting will take place at 4:30 PM on March 1 in Columbia. This is an official notice to members about the upcoming meeting to vote on member topics. Meeting will be available in person and virtually.



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NOWRA Conference in Springfield

The NOWRA Conference hosted in Springfield on October 31 – November 2 was a huge success. Thank you to everyone who attended. We had over 500 professionals in attendance with 6 concurrent sessions going on at once. NOWRA stated that it was one of the largest years for the amount of presentations submitted to the conference. It was great to have several Missouri speakers take a role at the national conference. Thank you to all speakers who put forth the effort to put together a presentation and come to the conference.

If you missed out on the conference, you can see the conference proceedings here: <https://www.nowra.org/conference/mega-conference/2022-conference-proceedings/>.

Most presentations are listed if you would like to see them and reach out to the speakers with questions.

Hosting the conference over Halloween did allow our group to have a little fun. We had several Halloween costumes at the social event located at Wire Road Brewing Company. A big thank you to Eljen Corporation for sponsoring this event.

The Exhibit Hall was full of companies and busy with attendees. Thanks to all of the companies for supporting the show.



Nick Dykes speaking as one of the Keynote Speakers



Pictured: Tammy & Wes Trantham as Morticia and Gomez Addams along with Chris LeClair, Hockey Referee



Innovative Pump Solutions booth at NOWRA Conference

Over the past year, I've been announcing that we will not have a January 2023 show since we hosted the 2022 NOWRA Conference. This is true. I've ramped up the number of classes available so if you still need CEUs, you can find some courses to attend. Keep in mind that we also have a plethora of online classes.

Save the date for the 2024 MSO Conference & Trade Show scheduled for January 15-17, 2024.

Tammy Trantham, Executive Director

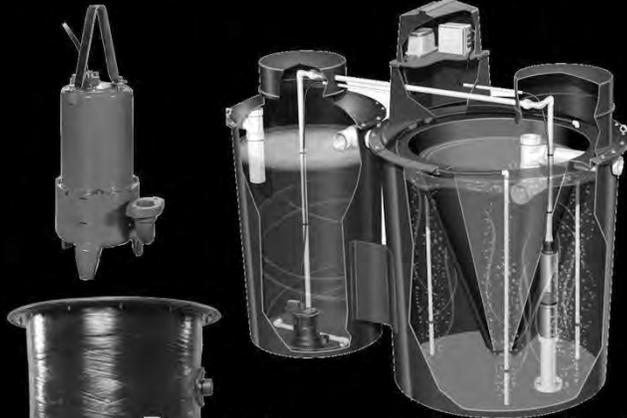
Wastewater Solutions

Treatment

Dispersal

Storage

Pumping



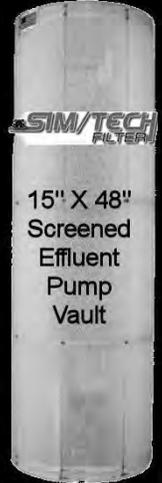
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Polylok PL122 Effluent Filter

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Onsite Wastewater

Promoting Health & Protecting Our Resources

2022 MEGA-CONFERENCE



Location: The University Plaza in Springfield, Missouri
Date of Event: October 30th Through November 2nd

Author: Kendall Nakato

Missouri Small Flows was pleased to partner with the National Onsite Wastewater Recycling Association to host the 2022 NOWRA/MSO Mega-Conference in Springfield, Missouri. This conference was a great opportunity for everyone in the on-site industry to come together, share our knowledge, and make lasting connections to protect our clean water. We had educators, regulators, engineers, soil scientists, service providers, and designers from all over the nation. The conference included lectures and field trips showcasing the emerging technologies in the industry, changes in regards to environmental regulation/policies, the impact to our environment, and much more. This year's turnout exceeded 500 professionals.



This conference had a bounty of knowledgeable presenters and educators.

People have been buzzing about this year's Halloween costume contest!

With the continued development of technologies in the industry, events like these are a great chance to discuss and share the technologies that may help to reduce the impact that we have on our environment. Advanced treatments systems such as this are a vital tool to prevent groundwater and surface water contamination. The advancement of these technologies may help increase food and water security at home and abroad. The people directly impacted by this are those who live downstream and those who have a well that is being affected by groundwater infiltration. We had an excellent turnout of technologies providers and developers attending this event. With the continuous development of technologies, coming together with other professionals helps the industry to stay up to date.

There were two field trips this year showcasing some of the advanced treatment technologies being utilized in Southwest Missouri. Each of the trips included several stops to present emerging technologies and discuss the implications to our environment. Not only did each trip get the chance to see various technologies at work, but it also included an interactive cave experience. The trips were made possible thanks to the cooperation of various organizations, companies, and individuals.

A Fantastic Field Trip!

One of the trips displayed the largest drip irrigation effluent distribution systems that is regulated by Greene County Resource Management – Environmental Division. The drip system is in a very sensitive area, due to its proximity to karst geologic features. This site was located at the popular attraction, Fantastic Caverns. The goal of the Caverns is to showcase the beauty of our Ozarks geology, so it seems fitting that they are leading the way in the use of advanced treatment systems to help preserve the beauty of the Ozarks.



Talk About Technologies!

The other field trip included a view at several emerging technologies in the industry. It included a look at an Advanced Enviro-Septic system, delta fixed film ecopod treatment systems, and Orenco Advantex AX-100 pods. There was discussion and commentary on the proper construction, use, and troubleshooting of these products. This trip included a look at an impressive 18,000 GPD system servicing 200 condos when at full capacity. The icing on the cake for this trip was our tour of Talking Rock Caverns

The conference was a success in many ways. There were dozens of guest speakers bringing their expertise and knowledge forth to the community. The attendance of regulators, installers, site planners, soil scientists, designers, engineers, and educators from across the nation resulted in a highly diverse assortment of perspectives. The conference allowed the knowledge, experience, questions, comments, and concerns to be heard by professionals from all around the nation. The proper handling of waste is a crucial aspect of promoting a safe and secure water supply. Events like these are a great way to help the industry pave the way for a brighter future with sound policies and cleaner waters.

Special Thanks To:

Tammy Trantham – Missouri Small Flows Organization
Michael Bowers - Greene County Resource Management – Environmental Division
David Casaletto –Ozarks Water Watch

Field Trips Made Possible Thanks to:

Norweco
Infiltrator Water Technologies

Daryel Brock and Ken Kramer Memorial Scholarship

Apply for the Daryel Brock and Ken Kramer Memorial Scholarships for 2023

Every year, MSO awards at least one scholarship through the Daryel Brock Memorial Scholarship program that helps our members' children attend further education. Some of you probably remember Ken Kramer who was a huge proponent of raising money for this fund through our gun drawing at the conference. Ken would walk around with a roll of tickets and not take any excuses as to why you shouldn't join in and buy a ticket.

Sadly, Ken passed away this year. He was a wonderful man who always brought a smile to the conference and even better jokes. He believed in MSO and our industry. Ken served as a Board Member for several years making the trip from Jackson, Missouri, for the meetings in Jefferson City. He certainly was dedicated to the organization.

To honor his memory and hard work, MSO is offering an additional scholarship this year. We hope that we are flooded with applications for this great opportunity.



Daryel Brock



Ken Kramer

Deadline to apply: February 15, 2023

Application information is available on the MSO website:

<http://www.mosmallflows.org/daryel-brock-memorial-scholarship.html>

Applicants must request an application in writing (mail or email) to MSO for the official application to be sent to them.

Thank you to everyone who supports this scholarship every year.



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Building Resources for Homeowner Education

Failing onsite wastewater treatment systems can be a contributing factor to pollutants of groundwater. In Missouri, karst topography creates even more vulnerable conditions for our groundwater resources. When systems fail, untreated effluent leaves the system and enters local ground water. This pollution can be very difficult and expensive to track once it has entered local waterways. Education is a great tool to help prevent failing systems.

Many homeowners and real estate agents do not receive the proper information when moving into, or selling, a property with an onsite wastewater system. Often, the previous owners either have not kept proper records or do not pass them along. It is important that owners understand where their system is located to prevent any compromise of the system and treatment area. It is also important that homeowners understand when and how to perform proper maintenance measures, and how to recognize signs of a failing system.

Understanding proper maintenance as well as warning signs not only protects the environment, but also protects the homeowner from costly damages. Timely maintenance is much less costly than having to repair or possibly replace a failing system. It can also dramatically lower the value of your property if extensive environmental damage has occurred due to negligence of a failing system.

While there is a lot of information out there about how systems work, warning signs of failure, and what to do; some of the information can be hard or extremely time consuming for homeowners to read through. Missouri Smallflows has condensed some of this information to make it easier for homeowners and realtors to use.

In the last year, Missouri Smallflows has worked to create a series of homeowner educational brochures that help cover different treatment system components. These brochures include an overview of how the system works and how to properly care for them. The brochures also stress the importance of how proper maintenance helps to protect the environment, the homeowner, and their property.

These brochures cover conventional systems, ATUs (figure 1), lagoons, media filters, LPP, and drip dispersal.

RESOURCES:

EPA:
www.epa.gov/septic
www.epa.gov/septic/how-your-septic-system-can-impact-nearby-water-sources
www.epa.gov/septic/types-septic-systems
www.epa.gov/septic/more-resources-homeowners-septic-systems

Registered Installers:
www.health.mo.gov/living/environment/on-site/counties/index.php

Registered Soil Evaluators:
www.health.mo.gov/living/environment/on-site/ose/index.php

Registered Inspectors:
www.health.mo.gov/living/environment/on-site/inspectors/index.php

Missouri Smallflows Organization
www.mosmallflows.org

AmeriCorps

HOMEOWNERS GUIDE TO: AERATED TREATMENT UNITS

AERATED TREATMENT UNITS DOS & DON'TS:

Do's:

- Have your system maintained regularly in accordance with manufacturers recommendations.
- Only contact qualified service providers.
- Use commercial cleaning products sparingly.
- Keep the ground above and around your system clear and away from livestock and vehicles.

Don'ts:

- Don't allow dental floss, feminine hygiene products, flushable wipes, condoms, diapers, cotton swabs, cigarette butts, coffee grounds, cat litter, paper towels, paint, pesticides, or other hazardous chemicals to enter your tank.
- Don't enter a sewage tank.
- Don't use drain cleaners for a clogged drain.
- Don't build over your sewage tank.
- Don't attempt maintenance on any sealed aerobic systems.
- Don't ignore any alarms from your system.

WARNING SIGNS:

- Water/sewage pools around sewage tank
- System alarms or lights
- Changes in system sounds
- Changes in color of wastewater in aeration chamber
- Excessive solids, foams, or SCUM
- Plumbing backups
- Sewage odors
- Bacteria presence in well water

If any of these are showing in your system, contact a qualified service provider to check that your system is working correctly.

An aeration treatment unit works to add oxygen to your treatment system to promote bacterial growth to treat your wastewater. This higher quality effluent is then pumped from your tank to your soil treatment area (drainfield) for the final treatment stage.

A delicate system of microbes work to treat the waste inside of your tank while incorporating air to allow for aerobic bacteria to grow. Harsh chemicals in drain cleaners, bleach, and other household cleaners often disrupt this environment and can lead to serious maintenance issues.

Maintenance is the most important role of a homeowner with an ATU system.

Proper maintenance ensures the quality of your system, as well as the influence it has on the ecosystem and value of your property.

Failure to take care of your system can result in property damage, environmental damage, severe illness, and major financial losses. Annually servicing your ATU system is the best way to ensure proper maintenance.

Figure 1:MSO's Homeowners Guide To: Aerated Treatment Units

REMEMBER TO RENEW YOUR MSO MEMBERSHIP!

Most members renew
at convention time
(December - January)



Call or email the MSO office to check your membership status
or just send in your \$140 renewal!
Thank you for supporting MSO!



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Missouri Smallflows Organization

WHY SHOULD I BECOME A MEMBER OF THE MISSOURI SMALLFLOWS ORGANIZATION (MSO)?

MSO is a state-wide organization that brings together wastewater professionals to provide a network of information and education. Not only will you have the opportunity to take part in an annual conference and trade show, but you will get discounts on classes to keep up your state license.

As a MSO Member you can also become a member of the National Onsite Wastewater Recycling Association (NOWRA), our national affiliate. This national organization strives to bring top-notch educational opportunities to the state and takes part in lobbying at the national level for wastewater professionals.

MSO MEMBER BENEFITS

- Discounts on MSO classes throughout the state
- Discounted ticket for the Annual MSO Conference and Trade Show
- Quarterly newsletter sent via email or mail
- Tracking of MSO classes taken
- Opportunities to network statewide with other wastewater professionals
- Daryel Brock Memorial Scholarship opportunity for son or daughter

NOWRA MEMBER BENEFITS

- Discounts on National NOWRA Conference
- Listing on Septic Locator on NOWRA website
- Wells Fargo 0.25% financing discount for equipment over \$50,000
- Can order magnetic signs for business
- Lobbying at the national level
- Receive bi-annual NOWRA magazine

WWW.MOSMALLFLOWS.ORG

WWW.NOWRA.ORG



REGISTRATION FORM

YES! SIGN ME UP FOR MEMBERSHIP WITH MSO!

Individual MSO Membership for \$140

Interested in a Company Membership for multiple employees? Call our office.

Name: _____

Company: _____

Mailing Address: _____

City: _____ State: _____ ZIP: _____ County: _____

Email address: _____

Phone Number: _____ Cell Number: _____

Sign me up for email updates on classes

I would prefer the quarterly newsletter by: Email Mail

DHSS License Numbers:

Basic Installer: _____ Advanced Installer: _____ Inspector: _____

Onsite Soil Evaluator: _____ Percolation Tester: _____

NEW! Pay online!
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Exp: ____/____ CVV: _____

Name on Card: _____

Card Billing Address: _____

State: _____ Card Billing Zip Code: _____

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

Aerated Treatment Units

Location: Imperial, Ganey Engineering

Date: January 17, 2023

Full day class: 8:30 AM—4:00 PM

DHSS General CEUs = 6

Select: Basic: 3.5, Advanced: 6, Inspectors: 3.5, OSE: 1, and Perc Tester: 1

Member price: \$130

Non-member price: \$200

Drip Irrigation

Location: Imperial, Ganey Engineering

Date: January 18, 2023

Full day class: 8:30 AM—4:00 PM

DHSS General CEUs: 6

Select: Basic: 3.5, Advanced: 6, Inspector: 6, OSE: 3.5, and Perc Tester: 0

Member price: \$130

Non-member price: \$200

Troubleshooting Onsite Systems

Location: Jefferson City, Cole County Health Department

Date: January 26, 2023

Full day class: 8:30 AM—4:00 PM

DHSS General CEUs = 6

Select: Basic: 6, Advanced: 6, Inspectors: 6, OSE: 0, and Perc Tester: 0

Member price: \$130

Non-member price: \$200

Onsite Pumps, Panels & Electrical

Location: Jefferson City, Cole County Health Department

Date: January 27, 2023

Full day class: 8:30 AM—1:30 PM

DHSS General CEUs: 4

Select: Basic: 3.5, Advanced: 3.5, Inspector: 3.5, OSE: 0, and Perc Tester: 0

Member price: \$130

Non-member price: \$200

Drain Fields & Water Management

Location: Cape Girardeau, Cape Girardeau County Health

Date: January 31, 2023

Full day class: 8:30 AM - 4:00 PM

DHSS General CEUs = 6

Select: Basic: 4.5, Advanced: 6, Inspectors: 3.5, OSE: 6, Perc Tester: 4.5

Member price: \$130

Non-member price: \$200

What's in my Yard?

Location: Cape Girardeau, Cape Girardeau County Health

Date: February 1, 2023

Full day class: 8:30 AM - 4:00 PM

DHSS General CEUs: 6.5

Select: Basic: 5.5, Advanced: 5.5, Inspector: 1.5, OSE: 1, and Perc Tester: 0

Member price: \$130

Non-member price: \$200

Drain Fields & Water Management

Location: Springfield, SI Precast

Date: February 16, 2023

Full day class: 8:30 AM—4:00 PM

DHSS General CEUs = 6

Select: Basic: 4.5, Advanced: 6, Inspectors: 3.5, OSE: 6, Perc Tester: 4.5

Member price: \$130

Non-member price: \$200

What's in My Yard?

Location: Springfield, SI Precast

Date: February 17, 2023

Full day class: 8:30 AM—4:00 PM

DHSS General CEUs: 6.5

Select: Basic: 5.5, Advanced: 5.5, Inspector: 1.5, OSE: 1, and Perc Tester: 0

Member price: \$130

Non-member price: \$200

More classes are being scheduled.

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

Seminar refund policy available online

MSO Spring Workshop

Location: Bradford Farms, Columbia, Missouri

Date: March 1 & 2, 2023



**Missouri
Smallflows
Organization**

MSO is hosting two days of educational workshops in Columbia. Participants may sign up for the whole 2-day workshop or choose which half-day sessions they want to attend. The goal of this workshop is to bring together different companies to discuss various onsite wastewater treatment options. With some new technologies in Missouri, the organization wants to have an open workshop to allow professionals to learn more and ask questions of the company representatives. Registration will open soon on the MSO website.

*Agenda is subject to change. DHSS CEUs will be announced in early 2023.

March 1, 2023	March 2, 2023
<p>8:00 AM - Refresher on Septic Tank Installations, Proper Bedding, and Preparing for Tank Drop-off</p> <p>Description: : This session will be an overview of proper septic tank installations for both concrete and poly-tanks. Manufacturers will participate in the panel discussion about best practices for installation, proper bedding of tanks and preparing for tank drop-offs.</p> <p>12:00 PM - Lunch</p> <p>1:00 PM - Sand-based Systems in Missouri</p> <p>Description: Recently, some sand-based systems have been “experimental” in Missouri. These systems have been used successfully in other parts of the nation. With a successful review, Advanced Enviro-Septic systems have been approved for use in Missouri with certain design rules. This course will talk about when these systems are useful in certain types of soils, proper installation with Missouri regulations, and maintenance requirements. More sand-based systems will be discussed as treatment options in Missouri as well.</p> <p>4:30 PM - MSO General Membership Meeting</p> <p>This event is open to all MSO Members.</p> <p>5:30 PM - Adjourn for day</p>	<p>8:00 AM - Wastewater Pathogens & Excavation Safety</p> <p>Description: This session will cover viral and biological pathogens in raw untreated human waste that workers in the onsite industry are commonly exposed to including: Pumpers, Installers doing system repairs and side sewer work on public utilities. Service providers that do inspection and repairs are also a target audience for this training. This training on "Excavation and Trenching" hazards for workers in construction and in the On-site industry are well documented. Specialty contractors and small business workers are exposed to hazards and potential fatalities in excavation and trenching work that are unique to the on-site wastewater industry.</p> <p>12:00 PM - Lunch</p> <p>1:00 PM - Missouri Inspection Forms - Deciphered and Informative</p> <p>Description: This session is dedicated to certified Missouri Inspectors. We encourage Inspectors to bring their laptop to learn how to use the electronic version of the inspector forms and how to successfully submit them to regulatory authorities. There will be power cord hookups and internet access for each participant.</p> <p>4:30 PM - Adjourn</p>

We have something new to show the Show-Me State!

See us at this year's MEGA-Conference, co-hosted by MSO & NOWRA!
October 30 thru November 2 in Springfield, MO.
(If you can't wait, call today!)



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James River Basin Partnership Septic Pump-Out Program

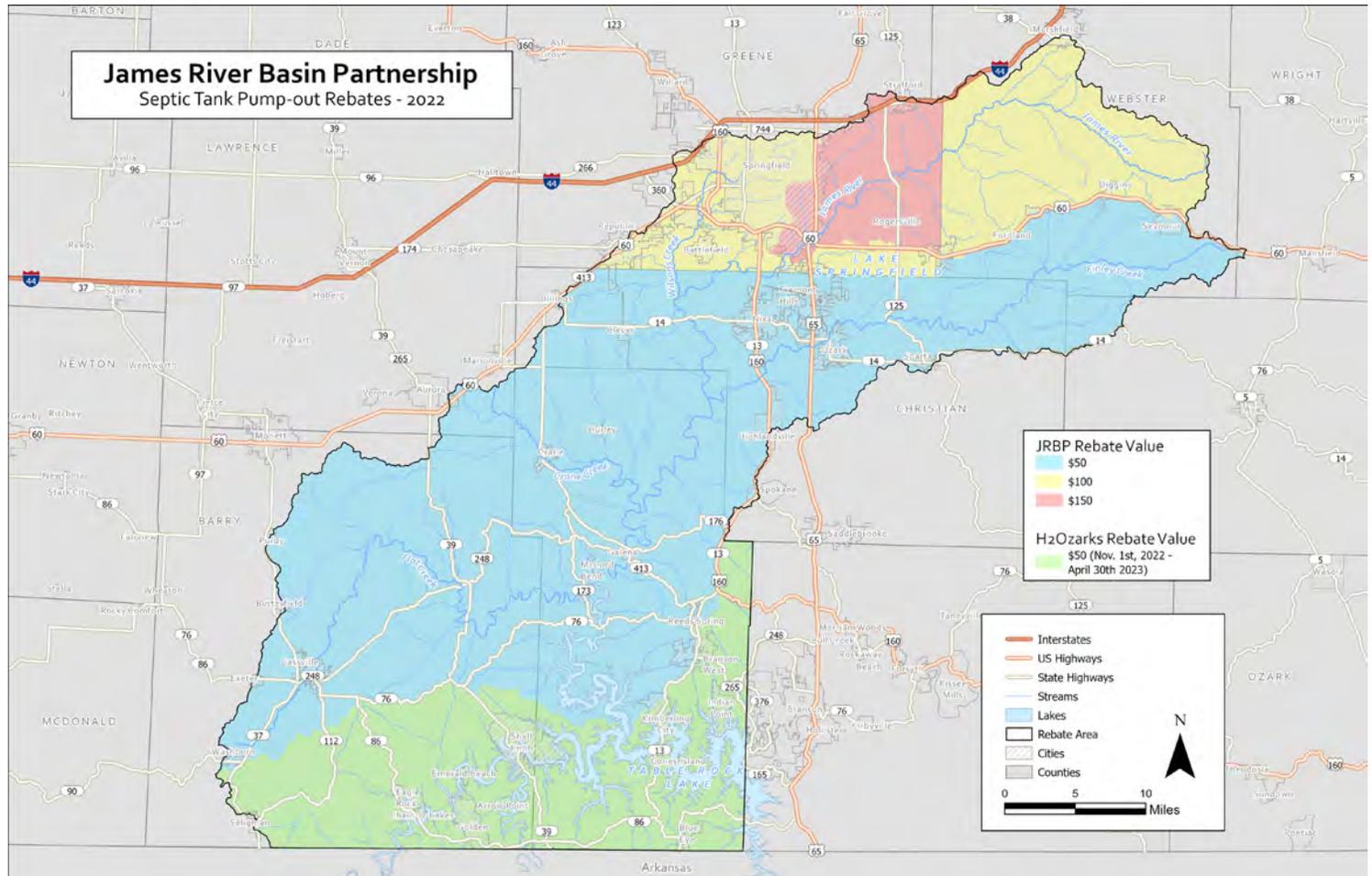
The James River Basin Partnership, in conjunction with Greene County and City Utilities of Springfield, is offering septic pumpout rebates of up to \$150 for qualified homeowners. (See attached map for details.)

Approximately 25% of Missouri homes rely on onsite wastewater treatment systems, commonly referred to as septic tanks. Routine septic pump-outs are imperative for maintaining effective wastewater treatment and prolonging the life of a septic system. Due to the porous nature of our Ozarks landscape, sewage from improperly maintained septic systems can easily contaminate groundwater as well as our local rivers and lakes. Routine maintenance of septic system is one of the most steps that landowners can take to protect our drinking water resources and maintain the health of our local waterways.

To receive the rebate application, the applicant must be a resident of the James River watershed and complete a survey prior to having their tank serviced by an approved service provider. Interested residents of the James River basin may fill out the online application form at www.jamesriverbasin.com/septic.

Septic pumpout companies wishing to participate in the rebate program should contact JRBP Project Manager Todd Wilkinson at (417) 836-4847, or at toddwilkinson@jamesriverbasin.com.

The James River Basin Partnership, formed in 1997, is an established Springfield, Missouri 501.c.3 nonprofit organization working to improve and protect the water quality of our rivers, lakes, and streams throughout southwest Missouri.





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

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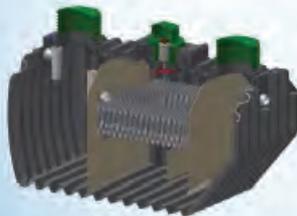


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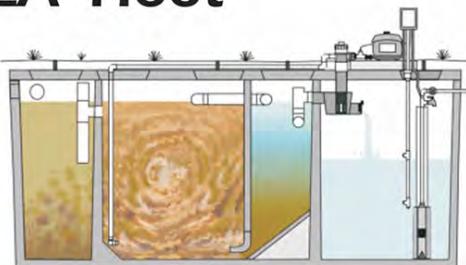
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